Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

ROUTED TO: Water Rights - Jeans TOWNSHIP! RANGE-SECTION: 205/46E-36 bc
CONDITIONS ATTACHED? [] yes [1/no REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Mike Zwart

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	: Water Rights Section							Da	te <u>Februa</u>	ry 15, 20)12	
FROM	[:	Grou	nd Water	Hydrology	Section_		ael Zwart					
SUBJE	ECT:	Appl	ication G-	17529			riewer's Name ipersedes re	eview of				
						50	.perseues r	C 1 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C		Date of Re	eview(s)	
OAR 6 welfare to deter the pres	90-310-1 s, safety or mine wh sumption	130 (1) and head ether the criteria	The Depara Ith as descr e presumpt	ibed in ORS ion is establ ew is based	oresume the 537.525. ished. OAI upon ava	at a proposition of the proposit	sed groundwat staff review 140 allows rmation and	w ground wat the proposed d agency pol	ensure the presenter applications use be modified icies in place as E. Inman	under OA d or cond t the time	AR 690-3 itioned to e of evalu	10-140 meet uation.
									c IX. Inman	County	Maine	
A1.	Applica	ant(s) se	eek(s) <u>0.0</u>	67_ cfs fro	m <u>one</u>			-				Basin,
						subt	oasın Qı	uad Map: <u>C</u>	Dwyhee			
A2. A3.	Propose Well an	ed use:	Irr er data (att	igation, 9 a	cres mber logs	Sea	sonality:	March 1 t	o October 31 I wells as such	under le	gid):	
	W CII ai	iu aquii	Applicant		oposed	Propos		Location				1
Well	Log		Well #	Ac	quifer*	Rate(c	fs) (T	T/R-S QQ-Q)	2250']	n, metes N, 1200' E		
2	MALH	53052	1	Terti	ary Seds.	0.067	7 20S/4	16E-36 SW-N	W 2442'	S, 100' E	fr NW co	r S 36
3												
4		_										
5	CDD.	D - 1 1										
Alluvii	um, CRB,	Bearoci	K									
Well	Well Elev ft msl	First Water ft bls	r SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	2198	17	11.83	02/10/07	180	0-25	0-25	None	None	15	81	P
Use data	from app	lication	for proposed	l wells.								
A4. 165 to 1	Commo		ne first wa	ter-bearing	zone is ca	sed and se	ealed off. T	he aquifer d	eveloped is rep	orted to	be at a d	epth of
A5. 🛛	manage (Not all	ment of basin r	ules contain	iter hydrauli n such provi	cally connotions:	ected to sur	rface water	are, or 🛭	to the developm are not, activ	ated by th	is applic	and/or ation.
A6. 🗌	Name o	of admin	istrative ar	ea:					er limited by an		rative res	triction.

Version: 08/15/2003

Applic	ation	G- <u>17529</u> continued	Date: February 15, 2012
В. <u>GF</u>	ROUI	ND WATER AVAILABILITY CONSIDERATION	ONS, OAR 690-310-130, 400-010, 410-0070
B1.	Bas	sed upon available data, I have determined that ground v	water* for the proposed use:
	a.		or cannot be determined to be over appropriated during any d to the ground water portion of the over-appropriation
	b.		nts requested without injury to prior water rights. * This finding jury determination as prescribed in OAR 690-310-130;
	c.	will not or will likely to be available within the	e capacity of the ground water resource; or
	d.	will, if properly conditioned, avoid injury to exist i. The permit should contain condition #(s) _ ii. The permit should be conditioned as indicaiii. The permit should contain special condition	ing ground water rights or to the ground water resource: ated in item 2 below. n(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 fi water reservoir between approximately	ft. and ft. below land surface;
	d.	occur with this use and without reconstructing are c	e or more of the above conditions. The problems that are likely to ited below. Without reconstruction, I recommend withholding truction is filed with the Department and approved by the Ground
			t is likely to occur without well reconstruction (interference w/urce, etc):
В3.		ound water availability remarks: <u>I do not expect an</u>	y groundwater availability problems from the limited ment condition to be included in this permit.
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Date: February 15, 2012

Application G-17529	continued	Date: February 29, 2012
1 ipplication G 1/32/	Continued	Dutc. I colum y 27, 2012

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	Sandstone and siltstone of the Glenns Ferry Formation		

Basis for aquifer confinement evaluation: <u>The static water level for wells penetrating the Glenns Ferry Formation is typically well above the depth that groundwater is encountered.</u>

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	Potentia Subst. Int Assume YES	erfer.
1	1	Owyhee River	2186	2188	600			
1	2	Snake River	2186	2182	5600			\boxtimes
	_							

Basis for aquifer hydraulic connection evaluation: The Glenns Ferry Formation is likely in indirect hydraulic connection with surface water sources at lower elevations. Hydraulic connection there is laterally and vertically with the overlying shallow gravel aquifer which is, in turn, directly hydraulic connected with local surface water sources. This aquifer is in very poor hydraulic connection with nearby surface water sources at higher elevations due to the depth at which water occurs and the low permeability of the overlying clays and siltstone. The Snake River may be a dicharge area for this aquifer, but even there the hydraulic connection is most likely to be indirect.

Water Availability Basin the well(s) are located within: Owyhee R > Snake R at mouth (31111001).

C3a. 690-09-040 (4): Evaluation of stream impacts for <u>each well</u> 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 < 1/4 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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Date: February	20 2012	
Date. rebluar	/ 27, 2012	

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.

# 5 cis? Right Right Q ICWD2 Flow Natural 10/2 Illi		sw	Qw>	Instream Water	Instream Water	Qw > 1%	80% Natural	Qw > 1% of 80%	Interference @ 30 days	Potential for Subst.
	#	#	5 cfs?	_	Right Q (cfs)	1				Interfer. Assumed?

Comments:	This section does not	apply.				
	_	_	_			
	-			_	_	

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.

Non-D	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun _	Jul	Aug	Sep	Oct_	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
			'										
	buted Well		Б.1					7.1	4	0	0.4	NI	D
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*** ** ^	070	%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS	0/	0/	0/	0/	0/	%	0/	0/	%	%	%	%
	<u> </u>	%	%	%	%	%	%	%	%	%	%	%	70
	as CFS												
Interfer	ence CFS						- 1						
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
(A) = T	otal Interf.												
) % Nat. Q												
(C) = 1	% Nat. Q												
(D) = (a	A) > (C)	\ '	✓	v.*	w.	٧′	√	w′	√′	√'	· ·	√	٠,٠
$(\mathbf{E}) = (\mathbf{A}$	/ 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.

	erestimated.
_	
_	
_	
69	00-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Rights Section.
] I	f properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water and this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain condition #(s)
	ii. The permit should contain condition #(s) The permit should contain special condition(s) as indicated in "Remarks" below;
	The permit should contain special condition(s) as indicated in Remarks below,
W/	GW Remarks and Conditions
	ences Used: Ground Water Report #34 by Marshall Gannett; local well logs; local reviews.
efei	

Date: February 29, 2012

Application G-17529

__continued

Applic	cation G-17529contin	ued	Date: February 29, 2012					
D. W	ELL CONSTRUCTION, OAL	R 690-200						
D1.	Well #:1		53052					
D2.	c. report of CWRE		ndards based upon:					
D3.	a. constitutes a health three b. commingles water from c. permits the loss of artes d. permits the de-watering e. other: (specify)	at under Division 200 rules; more than one ground wate tian head; of one or more ground wate	er reservoirs;					
D4.			ws: I have no issues with the construction					
D5.	orig	, or was not constructed inal construction or most recont know if it met standards		of				
D6. [ling issuance of the permit until evidence of wel nt Section and the Ground Water Section.	ll reconstruction				
THIS	SECTION TO BE COMPLE	TED BY ENFORCEMI	ENT PERSONNEL					
D7. [Well construction deficiency has	s been corrected by the follo	wing actions:					
	(Enforcement Section S	lignature)		, 200				
D8. [Route to Water Rights Section	n (attach well reconstruction	on logs to this page).					

WATER RESOURCES DEPARTMENT

MEMO								Febr	nary	<u>15</u> ,2	<u>2</u>	
TO: FROM: SUBJECT:		Application G-17529 GW: Mke Zwart (Reviewer's Name) Scenic Waterway Interference Evaluation										
	YES The source of appropriation is within or above a Scenic Waterway NO											
YES												
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.												
Calcula calcula informi Exerci Water	te the per ted, per c ng Water se of th way by	riteria in Rights th is permi	of consum 390.835, at the De t is calc owing an	aptive use do not fil partment ulated to mounts	CE by month in the to is unable o reduce expresse	able but ca to make e month	heck the a Prepon ly flows	"unable" derance o s in	option at of Eviden	bove, thus ce finding	s g. Scenic	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

