Water Right Conditions

Tracking Slip
Groundwater/Hydrology Section FILE ## G-16175 ROUTED TO: Water Rights TOWNSHIP/ RANGE-SECTION: 315/86-27 14
CONDITIONS ATTACHED? [] yes [] no REMARKS OR FURTHER INSTRUCTIONS:
Reviewer:

<u>PUB</u> 1	LIC IN	<u> TERE</u>	ST REV	IEW FOI	R GROU	JND	WA	TER AP	<u>PLICATI</u>	ONS	<u> </u>					
TO:		Wate	r Rights S	Section					Dat	e	May 19.	2004				
FROM	1:	Grou	nd Water/	Hydrology	Section		Micha	el Zwart								
SUBJI	ECT:	Appl	ication G-	16175				wer's Name ersedes re	view of		N/A					
		•••										Date of Re	view(s)			
OAR 6 welfare to dete	590-310-1 e, safety a rmine who	30 (1) nd heal ether th	The Depart th as descr e presumpt	ribed in ORS tion is establ	oresume the 537.525. ished. OA	at a p Depa R 690	ropose rtment)-310-1	ed groundw staff reviev 40 allows t	ater use will v ground wat he proposed l agency poli	er app use b	olications e modified	under OA I or condi	R 690-3: tioned to	10-140 meet		
A. <u>GE</u>	NERAL	INFO	DRMATI	<u>ON</u> : A	pplicant's	Nam	e:,	<u>Jeld-Wen</u>	Timber &	Ran	ches Co	unty:K	lamath			
Al.	Applica	ınt(s) se	ek(s) <u>11.</u>	14 cfs fro	m <u>one</u>		_well(s	s) in the	Klamath					_ Basin		
							_subba	ısin Qu	ad Map: K	lama	th Falls					
A2. A3.	Propose Well an	roposed use: Irrigation Seasonality: May 1 to October 31 Vell and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): Location Location, metes and bounds, e.g.														
Well	Log	id	Applican Well #		Proposed Aquifer*			• 1				n, metes a				
1	KLAM	54337	1		Basalt				7/R-S QQ-Q) /8E-27 NE-SE			'E, 700'S				
2																
3						_										
5						+										
	um, CRB,	Bedroc	k													
					1	-	· · · ·		T			337-11	-	T		
Well	Well Elev ft msl	First Wate ft bls	r SWL	SWL Date	Well Depth (ft)	Inte	eal erval ft)	Casing Intervals (ft)	Liner Intervals (ft)	1	forations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type		
1	4170	82	42	4/6/2004	650	0-5		0-70	None	Noi		3000	158	Air		
ļ	ļ															
		<u> </u>	-													
Use data	a from app	lication	for proposed	d wells.												
A4.	Commo	ents: <u>D</u>	rawdown (estimated fr	om air te	st. Se	e relat	ed file G-1	5511.							
A5. 🛛	manage (Not all	ment of basin r	f ground wa ules contai	ath ater hydrauli n such provi rules apply	cally connisions.)	ected	to surf	Basin ru	ıles relative t ☐ are, or 🔀	o the	developm not, activ	ent, classi	fication a	and/or ation.		

app no. G-16175

A6. Well(s) #_____, ____, Name of administrative area:

Comments: ___

, _____, tap(s) an aquifer limited by an administrative restriction.

В. <u>GR</u>	OUN	D WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
B1.	Bas	ed upon available data, I have determined that ground water* for the proposed use:
	a.	is over appropriated, is not over appropriated, or is cannot be determined to be over appropriated during any 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 finding 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)7E
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.		und water availability remarks: Measurement and decline condition 7E was also recommended for application 5511 for these same lands.

Date: May 19, 2004

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Applica	Application G-16175 continued Date: May 19, 2004												
C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040													
C1. 69	C1. 690-09-040 (1): Evaluation of aquifer confinement:												
	Well	Aquifer or Proposed Aquifer	Confined	Unconfined									
	1	Beach of Beat and Beach (Th. 2) and the translation of	\overline{M}										

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Basalt of Basin and Range (Tb2), possibly interbedded with continental sedimentary rocks (Tcs) above 206 feet.		

Basis for aquifer confinement evaluation: <u>This aquifer is typically confined in this area; the static water level is 40 feet higher than where ground water was first encountered in the well during drilling.</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)				al for terfer. ed? NO
1	1	Upper Klamath Lake	4128	4143	6000	\boxtimes			\boxtimes
1	2	Lake Ewauna/Klamath River	4128	4086	19500				\boxtimes

Basis for aquifer hydraulic connection evaluation: The water-bearing zone is likely below Klamath Lake bed level and the ground water gradient is away from the lake. However, the gradient is reversed relative to Lake Ewauna and downstream on the Klamath River. It is not clear that the basalt and sedimentary rocks are exposed in the bed of the lake and river, but that appears likely in some areas. Where this occurs, I would expect that ground water discharges to the surface water.

Water Availability Basin the well(s) are located within: Link R > Klamath R abb unn stream (31420305)

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 < 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 @ 30 days (%)	Potential for Subst. Interfer. Assumed?

Version: 08/15/2003

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 @ 30 days (%)	Potential for Subst. 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-Di	stributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	nce CFS												
D: 4 !!	4 1 777 1	1											
Well	uted Wel SW#	us Jan	Feb	Mar	A	May	Ium	Jul	A.,.~	Con	Oct	Nov	Dec
wen	3W#	Jan %	reb	Wiai	Apr 7	Way %	Jun // %	Jui %	Aug	Sep %	Oct	NOV	Dec %
Wall O	CEC	70	70	70	70	70	70	70	76	70	70	1 70	70
Well Q			-										1
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS												<u> </u>
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS												
	nce CFS												<u> </u>
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS		-				, ,,					-	-
	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS												
Interfere													
			<u> </u>	L				L		L		L	<u> </u>
(A) = Tot	al Interf.												
(B) = 80	% Nat. Q	1470	1520	1690	2220	2100	1670	1180	914	830	808	952	1240
(C) = 1.9	% Nat. Q												

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CFS; (D) = highlight the chec Basis for impact eva appropriate due to	kmark for each month where (A) is alluation: Estimated impacts imited and/or discontinuous	ow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as is greater than (C); (E) = total interference divided by 80% flow as percentage. were not calculated because it is unlikely that use of the Hunt model is exposure of aquifer rocks in and below the bed of Lake Ewauna and of the interference will be very much less than 1% of natural stream
(4b. 690-09-040 (5) (b) Rights Section.	The potential to impair or	detrimentally affect the public interest is to be determined by the Wate
under this permit c i. 🔀 The pe	an be regulated if it is found to	e(s) can be adequately protected from interference, and/or ground water use substantially interfere with surface water: #(s) 7J Indition(s) as indicated in "Remarks" below;
C6. SW / GW Remarks an	d Conditions	
,		
References Used: Lo		tion reviews, Ground Water Report #21, regional geologic map by

App	licat	ion G-16175 continued Date: May 19, 2004	
D. <u>V</u>	VEI	LL CONSTRUCTION, OAR 690-200	
D1.		Well #:1 Logid:KLAM 54337	
D2.		THE WELL does not meet current well construction standards based upon: a. review of the well log; b. field inspection by report of CWRE d. other: (specify)	
D3.		THE WELL construction deficiency: a.	
D4.		THE WELL construction deficiency is described as follows:	
D5.		THE WELL a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.	
		b. I don't know if it met standards at the time of construction.	
D6.		Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruct is filed with the Department and approved by the Enforcement Section and the Ground Water Section.	ion
TH	IS S	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7.		Well construction deficiency has been corrected by the following actions:	
		(Enforcement Section Signature)	
D8.		Route to Water Rights Section (attach well reconstruction logs to this page).	
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Water Resources Department

ME	MO					•		Mai	119	, 200	4			
TO FRO	•	GW	: <u>Mi</u>	(Reviewer	Zwar 's Name)	- - rence E	- - valuat	ion						
	Yes No	The	source	of appro	opriatio	n is witl	nin or a	bove a !	Scenic '	Waterw	ay			
	Yes Use the Scenic Waterway condition (Condition 7J). No													
PRE	EPONDI	At t evid surf	his tim ence thace wat	e the D nat the er flows	epartmo proposo s necess	ed use	nable t of gro maintai	o find tund wa	that the ter wil	re is a I meas ving cha	preponeurably a	derance reduce to of a scen	the	
FLOW REDUCTION: (To be filled 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	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec]	

