## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	ection					Date	e	October	12, 201	0	
FROM	<b>[</b> :	Groun	d Water/	Hydrology	Section _									
SUBJI	ECT:	Applic	cation G-	17424				s Name edes re	view of					
												Date of Re	view(s)	
OAR 6	90-310-1 e, safety ar emine who	30 (1) T nd healt ether the	he Depart h as descr presumpt	ribed in ORS tion is establ	oresume the 537.525. I ished. OA	at a propos Departmen R 690-310-	sed g t staf -140	ff reviev allows t	ater use will v ground wat the proposed l agency pol	ter ap use b	plications be modified	under OA d or cond	AR 690-3 itioned to	10-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>ON</u> : A	pplicant's	Name:	Haı	rney El	ectric Coo	pera	tive (	County:	Harney	7
A1.	Applica	nt(s) see	ek(s) <u><b>0.9</b></u>	8 cfs from	m <u>one*</u>	well			Malheur I					_ Basin,
A2.	Droposo	nd uso: C	Soothorm	al haating s	e cooling				Year roun					
A3.									rk proposed		ls as such	under lo	gid):	
Wel l	Logid Applicant' s Well #		Δ.	Proposed Aquifer*		ed fs)		Location T/R-S QQ-Q)		Location, metes and bounds, 2250' N, 1200' E fr NW cor S				
1	HARN 51699		1		lley fill	0.98		23S/30E-23 SE-SE		SE	155' N, 411' W fr SE cor S 23			S 23
2	3102													
3 4														
5														
* Alluvi	um, CRB,	Bedrock												
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)		Casing tervals (ft)	Liner Intervals (ft)		forations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	4147	22	14	4/24/10	180	0-20	0-1	106	None	Noi	ne e	50	(=5)	Air
A4.	Commo	ents: <u>Or</u>							ion well (H					rth of
A5. 🖂			he <u>Malhe</u>	eur Lake				Basin rı	ıles relative t	o the	developm	ent, class	ification	and/or
	(Not all	basin ru	iles contai	in such prov	isions.)				are, or			ated by t	his applic	cation.
A6. 🗌	Well(s)	#		, ,	, _	,		, ta <sub>i</sub>	p(s) an aquif	er lim	nited by an	administ	rative res	striction.
	Name o	f admini	istrative a	rea:					•					

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Applic	ation	G-17424	continued	Date: Oc	etober 12, 2010
			AILABILITY CONSIDERATION		
B1.			data, I have determined that ground wa		<u> </u>
	a.	is over approp	riated, is <b>not</b> over appropriated, or proposed use. * This finding is limited as prescribed in OAR 690-310-130;		
	b.		will likely be available in the amounts the ground water portion of the injur		
	c.	☐ will not or ▷	will likely to be available within the c	apacity of the ground wate	er resource; or
	d.	i. ⊠ The p ii. □ The p	rly conditioned, avoid injury to existing permit should contain condition #(s)	L d in item 2 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 a	allow ground water production only from the street relationship is the street relation of the	n the ft. below	ground v land surface;
	d.	to occur with t withholding is	ruction is necessary to accomplish one of this use and without reconstructing are of suance of the permit until evidence of water Section.	ited below. Without recor	nstruction, I recommend
			-as related to water availability- that ints, not within the capacity of the resour		
В3.	Gro	ound water availab	oility remarks: <u>The proposed use wi</u>	ll be essentially non-cons	umptive.
	aut	horized well(s). Pr	ONDITION LANGUAGE: All water ior to receiving a certificate of water plicable additional requirements of the	right, the permit holder s	shall submit documentation

olicatio	on G- <u>17424</u> continued	Date: October 12	, 2010
<u>GRO</u>	UND WATER/SURFACE WATER CONSIDERATIONS, OA	R 690-09-040	
. 690-	09-040 (1): Evaluation of aquifer confinement:		
7	Wel Aquifer or Proposed Aquifer	Confined	Unconfined
1	Wel Aquifer or Proposed Aquifer  Valley fill sediments and underlying cinder cone deposits	Confined	Unconfined
1	1 Aquiter or Proposed Aquiter		Unconfined
1	1 Aquiter or Proposed Aquiter		Unconfined
1	1 Aquiter or Proposed Aquiter		Unconfined

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.

the water level and the depthe where groundwater was first encountered.

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?
			10 11131	10 11151		125 1(6 1155 61.125	YES NO

Basis for aquifer hydraulic connection evaluation: <u>Hydraulic connection and potential for interference with surface</u> water sources will be mitigated by the reinjection of all water produced. This section does not apply.

Water Availability Basin the well(s) are located within:

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  $\boxtimes$  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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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 doe	s not apply.						

<b>Comments:</b>	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-E	Distributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	rence CFS												
			l						l				
Distri	buted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfe	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfe	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
,	rence CFS												
$(\mathbf{A}) = \mathbf{T}$	otal Interf.												
(B) = 80	) % Nat. Q												
(C) = 1	% Nat. Q												
( <b>D</b> ) = (A	A) > (C)	<b></b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>	$\checkmark$	<b>√</b>
$(\mathbf{E}) = (\mathbf{A}$	A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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CFS; (D) = highlight the check		80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as ter than (C); (E) = total interference divided by 80% flow as percentage.
	The potential to impair or detrin	nentally affect the public interest is to be determined by the Wate
Rights Section.		
under this permit ca	nn be regulated if it is found to subst	an be adequately protected from interference, and/or ground water use tantially interfere with surface water:  n(s) as indicated in "Remarks" below;
		in(s) as indicated in Remarks below,
	u Conditions	
Corcoran, 1972; Geol	ogic Map of the Burns Quadrangl	views; GW Report #16 by Leonard, 1970; Greene, Walker, and le, Oregon, USGS Miscellaneous Geologic Investigations Map I-t for Division 9 Review in the Malheur Lakes Basin.

D. <u>V</u>	VEI	LL CONST	RUCTIO	N, OAR 690-200		
D1.		Well #:	1	Logid: <u>HARN 51699</u>		
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 other: (specify)					
D3.		a.	nstitutes a hommingles we mits the lose mits the de-	tion deficiency: ealth threat under Division 200 rules; ater from more than one ground water reservoir; s of artesian head; watering of one or more ground water reservoirs;		
D4.		THE WEL	L construct	tion deficiency is described as follows:		
D5.		THE WEL	L a.	<ul> <li>was, or was not constructed according to the standards in original construction or most recent modification.</li> <li>I don't know if it met standards at the time of construction.</li> </ul>	effect at the time of	
D6.				nent Section. I recommend withholding issuance of the permit unnent and approved by the Enforcement Section and the Ground W		
TH	IS S	ECTION 7	го ве сс	OMPLETED BY ENFORCEMENT PERSONNEL		
D7.		Well constr	uction defic	iency has been corrected by the following actions:		
		(Er	oforcement S	Section Signature)		
D8.				s Section (attach well reconstruction logs to this page).		

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