PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	: Water Rights Section					Date						
FROM:	<i>, </i>					Mike	Zwart					
SUBJE	BJECT: Application G- 17146				Reviewer's Name Supersedes review of Date of Review(s)							
OAR 69 welfare, to determ	90-310-13 safety ar mine whe	30 (1) <i>I id heal</i> ether th	The Depar th as desc e presump	ribed in ORS tion is establ	presume than 537.525. I ished. OAF	at a proposi Department R 690-310-	ed groundwa staff review 140 allows t	ground wate he proposed	ensure the prese applications use be modified tices in place at	under OA d or cond	AR 690-3 itioned to	10-140 meet
A. GEN	ERAL IN	NFORM	MATION:	Applicant's	s Name: _	Andy Roo	<u>ot</u>		County:	Harney		
A1.	Applica	nt(s) se		47 cfs t					ake orthwest Harn			_Basin
A2. A3.	Propose Well an	d use: d aquif	Iri er data (at	rigation, 37. tach and nu	6 acres mber logs	Seas	onality: g wells; ma	March 1-0	October 31 wells as such	under lo	gid):	
Well	Log		Applican Well #	Propos	ed Aquifer*	Rate(cfs	Proposed Lo Rate(cfs) (T/R-		2250' N	Location, metes and bounds 2250' N, 1200' E fr NW cor		
1 2 3	HARN :	51448	9	Volca	anic Seds.	0.47	258/3	30E-33 SE-SV	V 4300° S	S, 30' W f	r N ¾ cor	8 33
4 5												
* Alluviu	ım, CRB,	Bedrocl	k	•		•	•		•			
Well 1	Well Elev ft msl 4150	First Water ft bls 107	r SWL	SWL Date 5/2/08	Well Depth (ft) 200	Seal Interval (ft) 0-20	Casing Intervals (ft) 0-92	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm) 4000+	Draw Down (ft) 10	Test Type P
A4.	Comme	ents:		l appears to					983, although			s
	<u>nunarea</u> te two ci		rom tne p	roposea 10ca	tuon wnen	tnat appu	cation was i	nied. I nis i	ile is needed to	add acr	eage to	
A5. 🖂	manage (Not all	ment of basin r	f ground w	neur Lake vater hydraul iin such prov	ically conne isions.)	ected to su	rface water	are, or	o the developm are not, activ	ent, class vated by t	ification his applic	and/or cation.
A6. 🗌	Name of	f admir	nistrative a	ırea:				o(s) an aquife	er limited by an	administ	rative res	triction

Version: 08/15/2003

	ed upon available data, I have determined that ground water* for the proposed use:
a.	is over appropriated, \square is not over appropriated, $or \square$ 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.	\square will not or \square 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) 7N 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;
o .	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;
1.	 ■ 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):
Vall	senior water rights, not within the capacity of the resource, etc): bund water availability remarks: Region Manager Ivan Gall recommends use of Condition 7N in the Harney
Vall	senior water rights, not within the capacity of the resource, etc): bund water availability remarks: Region Manager Ivan Gall recommends use of Condition 7N in the Harney ley. Nearby SOW #177 was dropped in the early 1990s, but water levels were generally stable. Permit-condition
Vall	senior water rights, not within the capacity of the resource, etc): bund water availability remarks: Region Manager Ivan Gall recommends use of Condition 7N in the Harney ley. Nearby SOW #177 was dropped in the early 1990s, but water levels were generally stable. Permit-condition
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	40 (2)			ile from a su	and hydraulic rface water so	urce that p	roduce water	r from a	n unco	nfined aquit	fer shall b	e
horizor assume	ed to b			nected to the	surface water	source. Inc	lude in this t	table any	Sucai	ns located b	eyond on	e m
tnat are		lated for Ps	o1.		GW	SW		П	Iydrauli	ically	Potent	
Well	SW #	S	Surface Wa	ater Name	Elev ft msl	Elev ft msl	Distance (ft)	(Connec		Subst. I Assur YES	
1	1		Harney	Lake	4064	4090±	24600		П	П	П	
	1											
well. T	he hea	d relation	ship sugg	gests an inef	ation: <u>The</u> ficient hydra erature as dis	ulic conne	ction with si	urface v	vater s	ources. Ho	f the appl owever, H	ica arı
well. The and Ma	he hea lheur	nd relation Lakes are	ship sugg recogniz	gests an inef zed in the lit	ficient hydra	ulic conne scharge ar	ction with su eas for the g	urface v ground-	vater s	ources. Ho	f the appl owever, H	ica arr
well. To and Ma Water A 690-09-c connect that are g Compared distribut	Availa 040 (4 ded and pertinge the r	bility Basi Lakes are bility Basi Evaluated less than to that sequested ra	n the well ion of str 1 mile from the uniform the water against	eam impacts of a surface ater source, a st the 1% of 8	ficient hydra erature as dis	No WAB of that has be s. Limit eva SW source ow for the	data in this at the determined luation to insect to which the pertinent War	area. ed or ass stream rate stream	sumed ights an unde ilabilit	to be hydrand minimum r evaluation ty Basin (W	nulically n stream f is tributa AB). If Q	low ry.
Water A 690-09-t connect that are g	Availa 040 (4 ded and pertinge the r	bility Basi Lakes are bility Basi Evaluated less than to that sequested ra	n the well ion of str 1 mile from the uniform the water against	eam impacts rom a surface ater source, a to the 1% of 8 or each well. Instream Water Right	ted within: for each well water source and not lower own natural fl Any checked Instream Water Right Q	No WAB of that has be s. Limit eva SW source ow for the	data in this at the pertinent Waicates the we were solved by the solved	ed or assistream rater Avaell is assisted assist	sumed ights an unde iilabilit umed t	to be hydrand minimum r evaluation ty Basin (W	nulically n stream f is tributa AB). If C potential to	low ry.) is o ca
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Confined

 \boxtimes

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Unconfined

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Well

1

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

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

Aquifer or Proposed Aquifer

Late Tertiary to Quaternary basalt and volcaniclastic

sedimentary rocks

C3b. **690-09-040 (4):** Evaluation of stream impacts <u>by total appropriation</u> 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.

 	ii ana miii	<u>.</u>	pry us m est						
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 V	Vells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
D'-4-'l	4 - 1 337 - 11												
Well	uted Wells SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
****	5 11 11	%	%	%	%	%	%	% %	%	%	<u>%</u>	%	%
Well Q	as CES	7.0	,,,	, ,	, •	,,	70	7.0	,,	70	7.0	,,	,,
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CES												
_	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
(A) - To	tal Interf.												
• •	% Nat. Q												
$(C) \equiv \Gamma$	% Nat. Q												
(D) = (A	1) > (C)	✓	✓	✓	✓	✓	√	√	✓	√	√	✓	√
$(\mathbf{E}) = (\mathbf{A}$	/ 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.

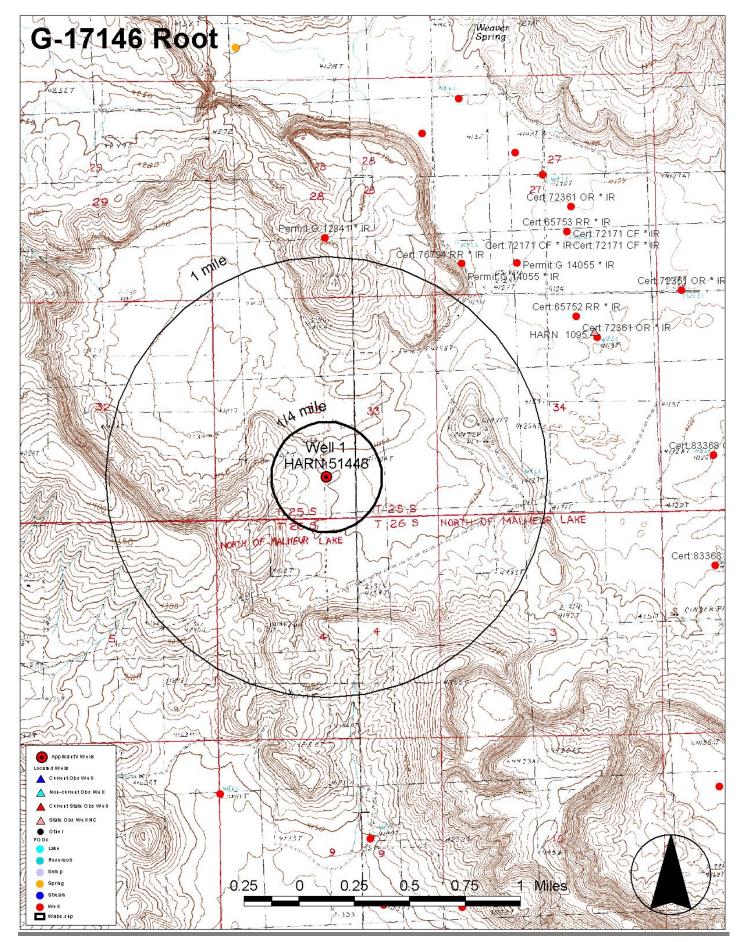
Basis for impact evaluation:

olication: G- <u>17146</u>	continued	Date: <u>February 17, 2009</u>
690-09-040 (5) (b) Ti Rights Section.	ne potential to impair or detrime	entally affect the public interest is to be determined by the W
☐ If properly condition	ed, the surface water source(s) can	be adequately protected from interference, and/or ground water
under this permit can b	e regulated if it is found to substar	ntially interfere with surface water:
ii. The permi	t should contain special condition(s) as indicated in "Remarks" below;
п. 🗀 тие регии	. should contain special condition(b) as marcated in Remarks below,
References Used· Local	well logs: local recent reviews: (GW Report 16, by Leonard, 1970; Greene, Walker, and
		Oregon, USGS Miscellaneous Geologic Investigations Map
		or Division 9 Review in the Malheur Lakes Basin.
oou, memo by Ivan Gall,	1/13, 2000, Stream Assessment 1	of Division 3 Review in the Manieur Lakes Dasin.

App	licati	ion: G-	17146	cont	inued		Date: Feb	ruary 17, 2009	
D. <u>V</u>	<u>WEL</u>	LL CO	NSTRUC'	TION, OA	R 690-200				
D1.	,	Well #:	1		Logid:	HARN 51448			
D2.	1	a.	review of field insper report of C	the well log ection by CWRE	;	uction standards base			
D3.	1	THE W a.	constitutes commingl permits th permits th	es water fro e loss of art e de-waterir	reat under Division m more than one gresian head; ng of one or more g	200 rules; round water reservoir; round water reservoirs	s;		
D4.	,	THE W	ELL const	truction de	iciency is describe	ed as follows:			
	•								
	•								
D5.	,	THE W	ÆLL			onstructed according to or most recent modific		fect at the time of	
				b. 🔲 I d	lon't know if it met	standards at the time of	of construction.		
D6.						nd withholding issuance Enforcement Section a			construction
TH	IS S	ECTIO	ON TO BE	COMPL	ETED BY ENFO	RCEMENT PERS	ONNEL		
D7.		Well co	nstruction o	deficiency h	as been corrected b	y the following actions	s:		
	•								
	•								
	•								
			(Enfance	ant Carth	Ciamatrina)				_, 200
			(Enforcem	nent Section	Signature)				
D8.		Route	to Water R	Rights Section	on (attach well rec	construction logs to th	nis page).		

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Hell Location 25,00530,00E34ABX Oregon Water Resources Department Well Log ID HARN 1095 Oregon Water Resources Department State Observation Well Number 177 Well depth, in feet below land surface Land surface elevation, in feet above mean sea level Primary use of well ABANDONED

