PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	Section				Date	Novemb	<u>er 12, 20</u>	008		
FROM	:	Grou	nd Water	/Hydrol	ogy Section	Mike	Zwart						
SUBJE	CT:	Appli	ication G	1708	32		ewer's Name persedes rev	view of		Date of Rev	view(s)		
OAR 69 welfare, to determ	90-310-1 safety and mine when	30 (1) <i>ind heal</i> ether th	The Depar th as desc e presump	tment sh ribed in tion is e	<i>ORS 537.525.</i> stablished. O <i>A</i>	<i>hat a proposi</i> . Department AR 690-310-	ed groundwa staff review 140 allows th	ground wate	ensure the preser applications use be modified cies in place at	under OA d or condi	R 690-3 tioned to	10-140 meet	
A. GEN	ERAL II	NFORM	MATION:	Applic	ant's Name:	Case Ag I	Properties, L	LC	County: U	<u>nion</u>			
A1.	Applica	nt(s) se	ek(s) 4.4	4 5	cfs from 2	well(s) in th	e	Grande Ro	nde			_Basin,	
		<u>Grand</u>	Ronde Ri	ver		subb	oasin Qua	nd Map: <u>Im</u>	bler				
A2. A3.													
Well	Log	id	Applican	1 1	oposed Aquifer	Propose Rate(cfs		ocation		, metes an			
1	Propo	sed	well#		Basalt	4.45	2S/39H	R-S QQ-Q) E-17 SE-NW	2250' N, 1200' E fr NW cor 50'N, 50'E fr NW cor NE ¹ / ₄ SV		NE¼ SW	¹ / ₄ S 17	
3	Propo	sed	2		Basalt	4.45	2S/39I	E-17 SE-SW	90'N, 290'E fr SW cor SE ¹ / ₄ SW		¹ / ₄ S 17		
4													
5	CDD	D 1											
* Alluvit	ım, CRB,	Вестос	K										
Well	Well Elev ft msl	First Wate 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 2	2740 2740				2000-5000 2000-5000	2000-5000 2000-5000	2000-5000 2000-5000						
	2740				2000 2000	2000 2000	2000 2000						
Use data	from ann	lication	for propose	d wells									
A4.	Comme	ents:											
A5. 🖂	manage	ment of	f ground w	ater hyo	de draulically cor	nnected to su	Basin rul	les relative to	o the developmed are not, active	ent, classi ated by th	fication a	and/or cation.	
	Comme	nts:											
A6. 🗌	Name o	f admii	nistrative a	rea:	:				r limited by an	administr	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, 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.	\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)									
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 water reservoir; ground									
	☐ Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely									
d.	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.									
d.	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									
d.	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/									
d.	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/									
Gro This	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/									
Gro This	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This leve	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This leve	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This leve	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This leve	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This leve	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									
Gro This leve	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): Dund water availability remarks: The nearest basalt well with a long-term record is about five miles northwest. It is well has displayed some water-level declines in the recent past, but themost recent measurements indicate that the last have rebounded somewhat. Nearby wells with measurement requirements currently have insufficient records									

Application: G- 17082 continued

Date: November 12, 2008

2

Well	10 (1).	Evaluatio	n of aqui	fer confineme	ent:					
			Aguife	r or Proposed	d Aquifer			Confined	J	Inconfined
1,2		Basalt			er Basalt Gr	oup		\boxtimes		
										<u> </u>
Basis for	r aquif	er confine	ement ev	aluation: <u>B</u>	asalt aquifer	s are typi	cally confine	ed; some nea	rby basalt w	vells flow.
horizon assume	ntal disted to be	tance less t	than ¼ mi ally conn	ile from a sur	nd hydraulic of face water sourface water s	urce that p	roduce water	r from an unc	onfined aqui	fer shall be
					CW	CW		TT 1	1' 11	Potentia
Well	SW	S	urface Wa	ter Name	GW Elev	SW Elev	Distance	Hydrau Conne	ilically ected?	Subst. Int
***************************************	#		urrace wa	ter runne	ft msl	ft msl	(ft)	YES NO		Assume
1	1	<u> </u>	J. D	. d. Diman	27(0)	2/70	9500			YES
1 2	1		rande Roi rande Roi		2760± 2760±	2678 2678	9600		- $+$	
	1	<u> </u>	tanuc Koi	ide Kivei	2700±	2070	7000		Ħ	H
1										
<u> </u>	—								<u> </u>	Щ
<u> </u>										Ш
					ation: <u>It is u</u>		to what exte	ent, if any, th	at ground w	ater in the
<u>Columb</u>	<u>ia Riv</u>	er Basalt i	<u>rocks cor</u>	ntributes to s	surface water	•				
				7/)		2004040	CD DOMB			
Water A	vailab	ility Basii	n the wel	l(s) are locat	ed within: _3	<u> 80810407</u>	GR ROND	E R> SNAK	E R- AB WI	<u>LLOW CR</u>
(00 00 (040 (4)	v. 1714	: C	:	Ca., a.a.la	41. 04 1. 0 0 1. 4			d to be bender	l!aall
					for <u>each well</u> water source.					
					nd not lower S					
					0% <i>natural</i> flo					
					Any checked					
PSI.		,			,					
			Т	T.,	T		900/	O : 10/		D. (
Т	SW	Well <	Qw >	Instream Water	Instream Water	Qw >	80% Natural	Qw > 1% of 80%	Interferenc	tor VII
	5 **	½ mile?	5 cfs?	Right	Right Q	1%	Flow	Natural	@ 30 days	Interf
Well	#		2 213.			ISWR?		Flow?	(%)	Assum
Well	#	,4 mme.		ID	(cfs)		(cfs)	1 10 w :		Assun
Well	#			ID	(cfs)		(cfs)	Tiow:		Assuii
Well	#			ID	(cfs)		(cfs)			Assuii
Well	#			ID	(CIS)		(cis)			Assuit
Well	#			ID	(cfs)		(CIS)			Assur
Well	#			ID	(cfs)		(CIS)			

Application: G- 17082 continued

Version: 08/15/2003

Date: November 12, 2008

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.

 same evaluation and infinations apply as in esa 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 V	Vells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
D: 4 .*I	-4 - 3 337 - 11												
Well	uted Wells SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WCII	3 ** "	%	%	%	%	%	%	% %	%	%	%	%	%
Well Q	as CFS	7.0	,,,	, ,	, •	,,	70	7.0	,,	70	70	70	,,,
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS	,,,		, ,			, ,	,,		,,	,,,	,,,	
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
(A) = To	otal Interf.												
· ·	% Nat. Q												
	% Nat. Q												
(0) 1													
$(\mathbf{D}) = (A$	A) > (C)	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	\checkmark
$(\mathbf{E}) = (\mathbf{A}$	/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:

plication: G- <u>17082</u> continued	Date: <u>November 12, 2008</u>
. 690-09-040 (5) (b) The potential to impair or detrimentally a Rights Section.	affect the public interest is to be determined by the W
☑ If properly conditioned, the surface water source(s) can be adec	nustaly protected from interference, and/or ground water
under this permit can be regulated if it is found to substantially in	nterfere with surface water:
·	
 i.	licated in "Remarks" below:
ii. The permit should contain special condition(s) as me	meated in Remarks below,
SW / GW Remarks and Conditions:	
References Used: Local well logs; local reviews; Development P	otential of Ground Water in the Grande Ronde Vall
Union County, Oregon, Ham, 1966: Geology and Ground-Water	Resources of the Upper Grande Ronde River Basin,
Union Co., OR, by Brown and Hampton, 1959.	

App	plication: G- 17082 contin	ued	Date: <u>November 12, 2008</u>	6
D. <u>v</u>	WELL CONSTRUCTION, OAR	690-200		
D1.	Well #:	Logid:		
D2.	 a. review of the well log; b. field inspection by c. report of CWRE 		dards based upon:	<u>;</u>
D3.	 a.	at under Division 200 rules; more than one ground water	r reservoirs;	
D4.			7S:	
D5.	origi	or was not constructed anal construction or most reconstruction or most reconstruction or most reconstruction.		
D6.			ing issuance of the permit until evidence of well reconstru at Section and the Ground Water Section.	ction
TH	IS SECTION TO BE COMPLE	TED BY ENFORCEME	NT PERSONNEL	
D7.	Well construction deficiency has	been corrected by the follow	ving actions:	
Do	(Enforcement Section S			·
D8.	☐ Route to Water Rights Section	i (attach well reconstructio	n logs to this page).	

Date: November 12, 2008