PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	Water Rights Section							Date	e <u>Septemb</u>	er 22, 20	008	
FROM:	:	Groun	d Water/	Hydrology	Section		Hackett					
SUBJE	СТ·	Annlie	eation G	17111			ewer's Name persedes rev	view of				
SODIL	C1.	Аррис	anon O-	1/111		Supersedes review of						
PUBLI	C INTE	EREST	PRESU	MPTION:	GROUN	DWATE	R					
OAR 69 welfare, to determ	90-310-1 safety and mine when	30 (1) The state of the state o	he Depar h as descr presump	tment shall pribed in ORS tion is establ	presume tha 5 537.525. I Iished. OAR	<i>t a propos</i> Department 2 690-310-	ed groundwe t staff review 140 allows t	v ground wat the proposed	ensure the prese er applications use be modified icies in place at	under OA	R 690-3 itioned to	10-140 meet
A. GEN	ERAL II	NFORM	ATION:	Applicant's	s Name:	Bridlewoo	od Farms		County:	Marion		
A1.	Applica	nt(s) see	ek(s) <u>0.1</u>	cfs cfs	from <u>1</u> w	vell(s) in th		Willame				_Basin,
						subb	oasin Qu	ad Map:	Woodburn			
A2.	Propose	d use: _	irri	gation		Seas	onality:	March 1 –	October 31			
A3.	Well an	d aquife	r data (at	tach and nu	mber logs				l wells as such			
Well	Log	id	Applicant Well #		ed Aquifer*	Propose Rate(cfs		Location (R-S QQ-Q)		n, metes a I, 1200' E		
1	MARI 5	59123	3		luvium	0.13	4S/1	W-8 NW-SW		8090' W fr		
3												
4												
5 * Alluvin	ım, CRB,	Radrock										
Alluvit												
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	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	188		68	7/7/2005	220	0-122	+2.2-151 181-201	. ,	151-181	175	18	A
Use data	from appl	ication fo	or propose	d wells.								
A4.	Comme	ents:										
A5. 🖾	manage (Not all	ment of basin ru	iles conta	ater hydraul in such prov	isions.)	ected to su	rface water	are, or	o the developmed are not, active	ated by the	his applic	
	Comme	nts:	The appli	cant's well p	oroduces fro	m a confir	ned aquifer,	so the pertine	ent basin rules d	o not app	oly.	
A6. 🗌	Name o	f admini	strative a	rea:				o(s) an aquife	er limited by an	administ	rative res	triction.

Version: 08/15/2003

	sed 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 findi is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;	ng							
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.								
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 approve by the Ground Water Section. ■ Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference version water rights, not within the capacity of the resource, etc): 	ed v/							
Gro	ound water availability remarks:								
The app and sedi	e applicant's well is located in an area that contains fine grained alluvial sediment from land surface to a depth of proximately 60-80 feet. A 40-50 feet thick package of sands and gravels underlies the fine grained sediment. These sand gravels represent the major water producing zones in the area. Approximately 100-200 feet of mostly fine grained iment with thin sand and gravel interbeds underlies the sand and gravel aquifer. Inter levels in nearby alluvial wells do not show any obvious signs of declines. However, water level data collected every large from MARI 308 indicates seasonal water level fluctuations are approximately 60 feet (see attached hydrographs).								
The app and sedi	e applicant's well is located in an area that contains fine grained alluvial sediment from land surface to a depth of proximately 60-80 feet. A 40-50 feet thick package of sands and gravels underlies the fine grained sediment. These sand gravels represent the major water producing zones in the area. Approximately 100-200 feet of mostly fine grained iment with thin sand and gravel interbeds underlies the sand and gravel aquifer. Iter levels in nearby alluvial wells do not show any obvious signs of declines. However, water level data collected every								
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Date: September 22, 2008_______2

	ed to be e evalua					arrace water	source. Inc	aude in uns t				•	
Well	SW #		Su	ırface W	ater Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)		Con	nulically nected?	Potenti Subst. In Assur YES	nter
1	1			Ryan		140	90-120	3350	\boxtimes				
1	2			Yergen	Creek	140	100-120	5200	\boxtimes				
		-								<u> </u>			
-									ᅡH	<u> </u>	片	<u> </u>	
1	-	1							- 	<u> </u>	븜		
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elevation locally. Water	These	factors bility	ream s sugg Basin	reaches gest gro	a. Additionally und water a h	, water table ydraulic conn ted within:	maps indicated in the section between the sect	ate ground ween the ground water the ground water the ground the g	vater dis	schar ter sy	ncident with or ges to surface stem and loca	water sou l streams.	irce
Water 690-09- connecthat are Company	Availal 040 (4 ted and pertine re the re	bility : bility : Eval less to tequeste	Basin aluation than in	n the we on of st 1 mile furface we again:	ell(s) are loca ream impacts from a surface vater source, a st the 1% of 8	ted within: for each well water source nd not lower 0% natural file	182 WILL that has be Limit eva SW source low for the	AMETTE I een determine luation to insert to which the pertinent Wa	R > CO ed or as stream ne strea ater Av	DLUM ssume rights m un ailab	ges to surface stem and loca	MOLAL mulically n stream f is tributat AB). If Q	LLA flow ry. Q is
Water 590-09- connect that are Compard distribu	Availal 040 (4 ted and pertine re the re	bility : bility : Eval less to tequeste	Basin aluation than in	n the we on of st 1 mile furface we again:	ell(s) are loca ream impacts from a surface vater source, a st the 1% of 8 or each well.	ted within: for each well water source nd not lower 0% natural fl Any checked	that has be SW source low for the Dox ind	AMETTE I een determine luation to insect to which the pertinent Waicates the we	R > CO ed or as stream ne strea ater Avell is as	DLUM SSUMG rights m un ailab sume	ges to surface stem and loca and loca and minimur der evaluation d	MOLAL MOLAL MUlically n stream f is tributat AB). If Cootential to	LLA low ry. Q is
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Basis for aquifer confinement evaluation: Water bearing zones in the applicant's well are confined by at least 55 feet of

Date: September 22, 2008_____

Confined

3

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

alluvium

Date: September 22, 2008

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.

same e aradición	i and inintations ap	pry as m Co						
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:	Modeling in similar circumstances suggests impacts to local streams will be much less than 25 % of the
pumping rate	after 30 days of pumping.

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-Distributed V	Vells											
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
Distributed Wells												
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
,,,en 5,,,,,	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	,,,	,,,	,,,	, ,	, ,	,,,	,,,	, ,	,,,	, •	,,,	
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	, ,	, ,	, ,	, ,	, ,	,,,	,,	, 0	7,0	, •	, ,	,,,
Interference CFS												
Interretence CF 5	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	70	70	70	70	70	70	70	70	70	70	70	76
Interference CFS												
Interretence er s	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	, ,	,,,	, ,	, •	, 0	70	,,	,,	70	, 0	70	,,,
Interference CFS												
Interretence er s	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	70	70	70	70	70	70	70	70	70	70	70	70
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	, ,	, ,	, ,	, ,	, ,	,,,	,,,	, ,	7,0	, •	, 0	,,,
Interference CFS												
Interretence CF 5												
(A) = Total Interf.												
(B) = 80 % Nat. Q												
(C) = 1 % Nat. Q												
				√								
$(\mathbf{D}) = (\mathbf{A}) > (\mathbf{C})$	%	%	%	%	%	%	%	%	%	%	%	%
$(E) = (A / B) \times 100$	%0	%0		70		70	% CEG (C		70	70	70	70

(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:

pplication: G- 17111	continued	Date: September 22, 2008
Hb. 690-09-040 (5) (b) Rights Section.	The potential to impair or detrimen	ntally affect the public interest is to be determined by the Wat
under this permit c	ioned, the surface water source(s) can an be regulated if it is found to substan ermit should contain condition #(s)	be adequately protected from interference, and/or ground water u tially interfere with surface water:
ii. The pe	ermit should contain special condition(s	as indicated in "Remarks" below;
5. SW / GW Remarks ar	nd Conditions:	
		_
References Used:		
		amette Basin, Oregon: U.S Geological Survey Scientific
Investigations Report 2	005-5168.	
Gannett and Caldwell, Geological Survey Prof		nmette lowland aquifer system, Oregon and Washington: U.S.
Hunt, B., 1999, Unstead	ly stream depletion from ground water	pumping: Ground Water, v. 37, no. 1, p. 98-102.
Hunt, B., 2003, Unstead January/February, 2003		m semiconfined aquifer: Journal of Hydrologic Engineering,
	emputation of rate and volume of streams of the Unites States Geological Surve	n depletion by wells: U.S. Geol. Survey Techniques of Waterey, Chapter D1, Book 4,17 p.
	1998, Hydrogeologic framework of the Tessional Paper 1424-B,	e Willamette lowland aquifer system, Oregon and Washington: U

D. <u>W</u>	VELL CON	NSTRUCTION, OAR 690-200
D1.	Well #:	Logid:
D2.	a.	ELL does not meet current well construction standards based upon: review of the well log; field inspection by
D3.	a.	constitutes a health threat under Division 200 rules; commingles water from more than one ground water reservoir; permits the loss of artesian head; permits the de-watering of one or more ground water reservoirs; other: (specify)
D4.	THE W	ELL construction deficiency is described as follows:
D5.	THE W	 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.		o the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction with the Department and approved by the Enforcement Section and the Ground Water Section.
THI	S SECTIO	N TO BE COMPLETED BY ENFORCEMENT PERSONNEL
		nstruction deficiency has been corrected by the following actions:
	-	
		. 200
		(Enforcement Section Signature)
D8.		o Water Rights Section (attach well reconstruction logs to this page).

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Date: September 22, 2008_____

Water Availability Tables

WILLAMETTE R> COLUMBIA R- AB MOLALLA R WILLAMETTE BASIN Water Availability as of 9/22/2008

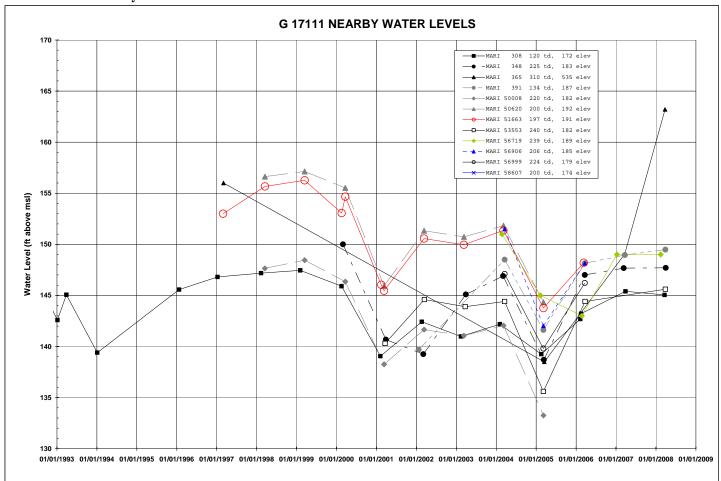
Water Availability Calculation

Month	Natural Stream Flow		Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	21,400.00	2,250.00	19,100.00	0.00	1,500.00	17,600.00
Feb	23,200.00	7,440.00	15,800.00	0.00	1,500.00	14,300.00
Mar	22,400.00	7,220.00	15,200.00	0.00	1,500.00	13,700.00
Apr	19,900.00	6,870.00	13,000.00	0.00	1,500.00	11,500.00
May	16,600.00	4,200.00	12,400.00	0.00	1,500.00	10,900.00
Jun	8,740.00	2,050.00	6,690.00	0.00	1,500.00	5,190.00
Jul	4,980.00	1,870.00	3,110.00	0.00	1,500.00	1,610.00
Aug	3,830.00	1,720.00	2,110.00	0.00	1,500.00	614.00
Sep	3,890.00	1,470.00	2,420.00	0.00	1,500.00	918.00
Oct	4,850.00	717.00	4,130.00	0.00	1,500.00	2,630.00
Nov	10,200.00	851.00	9,350.00	0.00	1,500.00	7,850.00
Dec	19,300.00	924.00	18,400.00	0.00	1,500.00	16,900.00

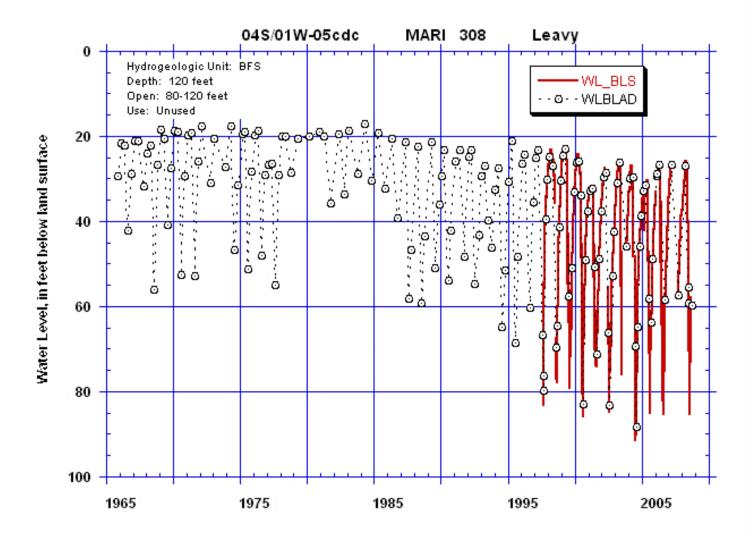
Version: 08/15/2003

Date: September 22, 2008_____

Water Levels in Nearby Wells



Water Levels in Recorder Well MARI 308



Date: September 22, 2008_____

Well Location Map

G 17111, Bridlewood Farms

