PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	Section				Date	January	16, 2009)	
FROM:		Groun	d Water	Hydrology	Section _							
SUBJE	CT:	Applic	ation G-	17129		Revi Suj	ewer's Name persedes rev	view of		Date of Rev	view(s)	
OAR 69 welfare, to determ	00-310-13 safety ar nine whe	30 (1) The state of the state o	he Depar h as descr presump	ribed in ORS tion is establ	presume that 537.525. I ished. OAF	at a propos Department R 690-310-	ed groundwa t staff review 140 allows t	ground water he proposed	ensure the press er applications to use be modified cies in place at	under OA	R 690-3	10-140 meet
A. GEN	ERAL IN	NFORM	ATION:	Applicant's	s Name:	Curtis Pa	pineau		County: N	<u> Iorrow</u>		
A1.	Applica	nt(s) see	k(s) <u>0.5</u>	5*cfs f	from <u>1</u> v	vell(s) in th	ne Uma	tilla				_Basin,
		Villow (Creek			subt	oasin Qua	ad Map: <u>Le</u>	exington			
A2. A3.								March 1-0 rk proposed	ectober 31 wells as such	under lo	gid):	
Well	Logi MORR :		Applicant Well #	Propose	ed Aquifer*	Propose Rate(cfs	s) (T.	Location /R-S QQ-Q) 5E-27 NW-SE	2250' N	n, metes a I, 1200' E I	fr NW cor	S 36
2	Monn	31703			CKB	0.3	15/2.	3E-27 NW-SE	14/0 1	,1700 11	II SE CO	1 5 21
3 4												
5 * Alluvin	m, CRB,	Dadroak										
Alluviu			1							1	1	
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	1480	135	80	3/20/71	335	0-30	0-30			60	40	P
Use date	from anni	iontion fo	or propose	d walls								
A4. was trac well is a	Comme	ents:	The prov by IS st n any ca	rided well logate.	oplicant is at it is only	requesting six inches	g much mor in diameter	e than the c	ies on file. It is ustomary rate, end that the po	which I	doubt th	at the
A5. 🛛	manager (Not all	ment of basin ru	les conta	ater hydraul in such provi	ically conne isions.)	ected to su	rface water	are, or	o the developmed are not, activ	ated by tl	nis applic	and/or cation.
A6. 🗌	Name of	f admini	strative a						er limited by an		rative res	triction.

Version: 08/15/2003

ROUN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070								
Bas	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 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								
1.	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 thanft. below land surface;								
).	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;								
	■ 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):								
~									
	ound water availability remarks: Condition 7N is now being used consistently for basalt wells.								
	hough the well is located within five miles of the Town of Lexington's municipal well, the town does not yet have approved Division 86 plan on file.								
	pprovide 2 march of part of and								
Lex yea yea	ter-levels at nearby irrigation wells are relatively stable and reflect decadal-scale climatic variations. The Town of congton municipal well (MORR 57) is more problematic, but it also appears relatively stable over the last 15-to 20 rs. Measuremant variations at this well are possibly due to residual drawdown from recent pumping in some								
Lex yea yea	ter-levels at nearby irrigation wells are relatively stable and reflect decadal-scale climatic variations. The Town of cington municipal well (MORR 57) is more problematic, but it also appears relatively stable over the last 15-to 20 rs. Measuremant variations at this well are possibly due to residual drawdown from recent pumping in some rs. I believe that the measurement condition recommended will provide adequate protection for the resource and								
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Application: G- 17129 continued

Date: <u>January 16, 2009</u>

horizon assume	tal dis d to be		than ¼ mile fro ally connected	om a surface	vater source	that produce wa e. Include in th	ter from	an und		peyond one	e mi
Well	SW #	Sur	face Water Nam	GW Elev ft ms	SW Ele ft m	v Distance		Conn	ulically ected? ASSUMED	Potentia Subst. In Assum YES	nterf
1	1	7	Willow Creek	140	0 142	5 1500		\boxtimes			
1	2		ckhorse Canyo					$\overline{\boxtimes}$			
			·								
1								П			
								\Box	Ē		
1								П			
Water A 3071041	cby res Creek est, wh vailal 2, BL	aches of the about 800 sich is like bility Basic	e creeks. Als 00 feet downst ly, then the di n the well(s) a SE CAN> W	o, the shalloveream if the heat stance where the stance where the located we shall be standard to the standard we shall be shall	vest identifie asalt beds a hydraulic c thin:30710 AT MOUT		ng zone If the bars will l	would asalt d be subs	be exposed i ips slightly to stantially gre MBIA R- AI	n the bed of the north- eater.	<u>of</u> h to
Water A 3071041 690-09-0 connect that are j	Creekest, who wailand 2, BL 3,	bility Basis ACKHOR Dies than and to that sequested ra	n the well(s) a SE CAN> W ion of stream i 1 mile from a urface water s te against the	o, the shalloveream if the less tance where the located we will the less than the less tance where the located we will the less than the located was surface water ource, and no 1% of 80% no	thin: 30710 AT MOUT: ch well that he source. Limit source SW statural flow for	onnection occu	If the bar and the stream the stream Water A	columns as a summer as summer as summer arights am und vailabi	be exposed in the ips slightly to stantially green mBIA R- All do not be hydra and minimuraler evaluation lity Basin (W	n the bed of the north eater. B RHEA Conclusion stream flatistributar (AB). If Q	of h to CR;
Water A 3071041 690-09-0 connect that are j	Creekest, who wailand 2, BL 3,	bility Basis ACKHOR Dies than and to that sequested ra	n the well(s) a SE CAN> W ion of stream i 1 mile from a urface water s te against the	o, the shalloveream if the less tance where the located we will the less than the less tance where the located we will the less than the located was surface water ource, and no 1% of 80% no	thin: 30710 AT MOUT: ch well that he source. Limit source SW statural flow for	nas been determit evaluation to ources to which or the pertinent ox indicates the	ined or a instream the stre Water A well is a	would asalt doe subs COLU assumed a rights am und vailabi ssumed	be exposed in the ips slightly to stantially green mBIA R- All do not be hydra and minimuraler evaluation lity Basin (W	n the bed of the north eater. B RHEA Concluding the stream floor is tributar (AB). If Q potential to	low
Water A 3071041 690-09-0 connect that are j Compare distribut	Creekest, who wailand 2, BL 3,	bility Basis ACKHOR Dies than and to that sequested ra	n the well(s) a see CAN> We ion of stream in the from a urface water see against the all rate for each of the control of the c	mpacts for easurface water ource, and no h well. Any classification with the stance water ource and no hand in the stance water ource.	thin: 30710 AT MOUT ch well that he source. Lime to lower SW setural flow for each water he Que the Company of	2416, WILLOW 1416, WILLOW 1416, WILLOW 1518 1619	ined or a instream the stre Water A well is a	columns assumed assumed assumed arights am und vailabit ssumed by \$1.00 to	be exposed in the ips slightly to stantially green mBIA R- All do not be hydra and minimuraler evaluation lity Basin (W	a the bed of the north rater. B RHEA Concluding the stream floor is tributar (AB). If Q potential to get for S Interest.	low y. cantia
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Basis for aquifer confinement evaluation: <u>Basalt aquifers are typically confined unless they are shallow or are in hydraulic connection with an overlying alluvial aquifer.</u> The water level here is above the depth where ground water

Date: <u>January 16, 2009</u>

Confined

3

Unconfined

Application: G- 17129 continued

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

Basalt of the Columbia River Basalt Group

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 >	Instream Water	Instream Water	Qw > 1%	80% Natural	Qw > 1% of 80%	Interference	Potential for Subst.
#	5 cfs?	Right ID	Right Q (cfs)	ISWR?	Flow (cfs)	Natural Flow?	@ 30 days (%)	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												
	uted Wells	_					_			~			_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CES	, -	, ,	, -	, ,	, ,	, ,	, ,	, ,	, ,	,,,	, ,	, ,
	ence CFS												
memer	chec er b	%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CES	70	70	70	70	70	70	70	70	70	/0	70	70
	ence CFS												
IIIICITEI	ence CI'S	%	%	%	%	%	%	%	%	%	%	%	%
Well Q	CEC	70	70	70	70	70	70	70	70	70	70	70	70
Interfer	ence CFS												_
$(\mathbf{A}) = \mathbf{T}0$	tal Interf.												
	% Nat. Q												
	% Nat. Q												
•	-			<u> </u>			<u> </u>						
$(\mathbf{D}) = (\mathbf{A}$	A) > (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:

lication: G- <u>17129</u> continu	ıed	Date: <u>January 16, 2009</u>
690-09-040 (5) (b) The potentia Rights Section.	al to impair or detrimentally a	affect the public interest is to be determined by the W
□ 7 6		
under this permit can be regulated	d if it is found to substantially in	
ii. The permit should co	ontain condition #(s)ontain special condition(s) as ind	licated in "Remarks" below:
🗀 ғ		,
SW / GW Remarks and Conditions:	<u>:</u>	
References Used: Local well logs;	nearby recent reviews; GW R	Reports 30 & 35; Lower Umatilla Basin Report, 1995
Chapter 2, Hydrogeology, by Wozn	iak; Bill Fujii, personal comm	unication.

App	licati	ion: G	17129	_ continued		Date: January 16	, 2009
D. <u>V</u>	WEI	LL CON	STRUCTIO	N, OAR 690-20	<u>00</u>		
D1.		Well #: _	1		Logid:		
D2.		a.	review of the w field inspection report of CWR	ell log; by E		ls based upon:	
D3.		a.	commingles was permits the loss permits the de-	alth threat under ter from more the of artesian head watering of one of	Division 200 rules; an one ground water rese; or more ground water rese	ervoirs;	
D4.		THE W	ELL construct	on deficiency is	described as follows:		
		-					
		-					
D5.		THE W	ELL a. [vas not constructed accortruction or most recent m	ding to the standards in effect at toodification.	the time of
			b. [☑ I don't know	if it met standards at the	time of construction.	
D6.						ssuance of the permit until evider ction and the Ground Water Secti	
TH	IS S	ECTIO	N TO BE CO	MPLETED BY	Y ENFORCEMENT I	PERSONNEL	
D7.		Well con	struction defici	ency has been co	rrected by the following	actions:	
		-					
			(T) 0				, 200
			(Enforcement S	ection Signature)		
D8.		Route to	o Water Rights	Section (attach	well reconstruction log	s to this page).	

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Application: G- 17129 continued Date: January 16, 2009

WILLOW CR> COLUMBIA R- AB RHEA CR UMATILLA BASIN

Water Availability as of 1/15/2009

Watershed ID #: 30710416

Exceedance Level:

80%

Date: 1/15/2009

Time: 8:56 PM

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	7.77	7.03	0.74	0.00	0.00	0.74
Feb	16.00	16.40	-0.36	0.00	0.00	-0.36
Mar	28.30	38.80	-10.50	0.00	0.00	-10.50
Apr	32.40	27.30	5.11	0.00	0.00	5.11
May	18.70	13.60	5.05	0.00	0.00	5.05
Jun	5.89	6.17	-0.28	0.00	0.00	-0.28
Jul	1.25	2.79	-1.54	0.00	0.00	-1.54
Aug	0.56	1.95	-1.39	0.00	0.00	-1.39
Sep	0.27	1.36	-1.09	0.00	0.00	-1.09
Oct	0.24	0.86	-0.62	0.00	0.00	-0.62
Nov	2.55	1.72	0.83	0.00	0.00	0.83
Dec	5.46	3.57	1.89	0.00	0.00	1.89
Storage Acre-Feet at 50%	16,800.00	7,310.00	9,620.00	0.00	0.00	9,620.00

Application: G- 17129 continued Date: January 16, 2009

BLACKHORSE CAN> WILLOW CR- AT MOUTH UMATILLA BASIN

Water Availability as of 1/15/2009

Watershed ID #: 30710412

Date: 1/15/2009 Time: 8:58 PM

Water Availability Calculation

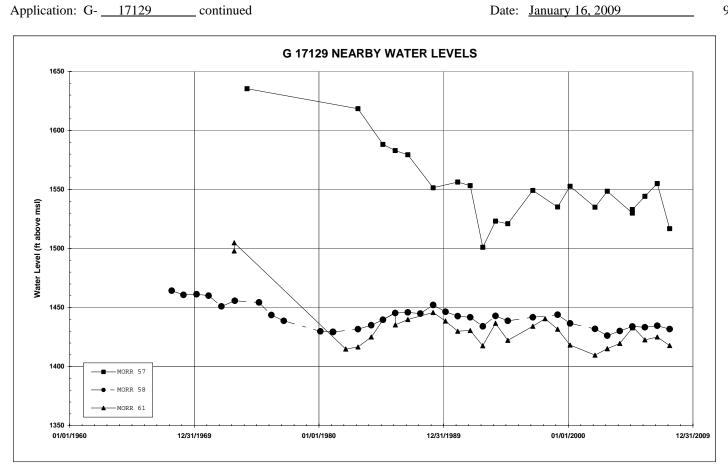
Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage	_	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	0.10	0.00	0.10	0.00	0.00	0.10
Feb	0.46	0.00	0.46	0.00	0.00	0.46
Mar	0.90	0.00	0.90	0.00	0.00	0.90
Apr	0.33	0.00	0.33	0.00	0.00	0.33
May	0.12	0.00	0.12	0.00	0.00	0.12
Jun	0.07	0.00	0.07	0.00	0.00	0.07
Jul	0.02	0.00	0.02	0.00	0.00	0.02
Aug	0.01	0.00	0.01	0.00	0.00	0.01
Sep	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.00	0.00	0.00	0.00	0.00	0.00
Nov	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.04	0.00	0.04	0.00	0.00	0.04
Storage Acre-Feet at 50%	513.00	0.00	513.00	0.00	0.00	513.00

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Exceedance Level:

Application: G- 17129 continued



Date: <u>January 16, 2009</u>

