## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	: Water Rights Section				Date <u>October 1, 2010</u>									
FROM	[:	Groun	dwater/H	Marc Norton										
SUBJE	ECT:	Applio	cation G-	Reviewer's Name Supersedes review of  Date of Review(s)										
OAR 6 welfare to deter	<b>90-310-1</b> , <i>safety a</i> mine wh	30 (1) T and healt ether the	The Depart h as descr e presumpt	ribed in ORS ion is establ	oresume th 5 537.525. lished. OA	nat a propos Departmen AR 690-310	sed gr it staf -140 :	f review allows t	ater use will v groundwate the proposed l agency pol	er app use b	olications upon the modifie	ınder OA d or cond	R 690-31 itioned to	10-140 o meet
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>ON</u> : A	pplicant's	Name:	Cra	ig & Jo	odi Martin		(	County:	Umatil	la
A1.	Applica	ant(s) see	ek(s) <u><b>0.0</b></u>	cfs from	m <u>1</u>	well			Umatilla ad Map: H		ston			_Basin,
A2. A3.		Proposed use: <u>Irrigation (1.64 acres)</u> Well and aquifer data (attach and number log						ity:	March 1 to	o Oct	ober 31	under lo	gid):	
Wel 1	Logid		Applican s Well #	Ac	Proposed Aquifer*		1		Location C/R-S QQ-Q)		Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36			r S 36
1 2	UMAT 3613		1 Alluvium		luvium	0.02		05N/2	28E-35 SE N	NE	E 205' N, 150' W fr E 1/4 cor S 35			
3 4														
5 * Alluvi	um, CRB,	Bedrock												
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date 4/26/76	Well Depth (ft)	Seal Interval (ft) 0 - 20	Int	asing tervals (ft)	Liner Intervals (ft)		rforations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
Use data  A4.	• • •		or proposed											
Reques	sted discl	harge ra	te is 9.2 g	pm = 0.02										
A5. 🛚	manage (Not all	ement of I basin ru	ıles contai	iter hydrauli n such prov	cally conrisions.)	nected to su	rface	water	ıles relative t ☐ <b>are</b> , <i>or</i> ∑	] are	<b>not</b> , activ	ent, class ated by th	ification nis applic	and/or ation.
A6. 🗌	Well(s) Name of	# of admin ents:	istrative a	rea: <u>NA</u> ,	,		,	, tap	p(s) an aquif	er lim	nited by an	administ	rative res	striction.

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## B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

Bas	ed upon available data, I have determined that groundwater* for the proposed use:
a.	is over appropriated,  is <b>not</b> over appropriated, <i>or</i> 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.	$\square$ will not $or$ $\boxtimes$ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
c.	$\square$ will not or $\boxtimes$ will likely to be available within the capacity of the groundwater resource; or
d.	will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:  i. The permit should contain condition #(s)  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 groundwater production from no deeper than ft. below land surface;
b.	Condition to allow groundwater production from no shallower than ft. below land surface;
c.	Condition to allow production only from the approximately ft. and ft. below land surface;
	withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater 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):
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Gro	oundwater availability remarks:
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-	

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

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

Wel 1	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Sand and gravel		$\boxtimes$

Basis for aquifer confinement evaluation:	The groundwater level was reported where it was encountered during
drilling.	

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 ½ 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.

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? YES NO
1	1	Z Canal	436	540	860		
	2	M Canal		485	2150		
1							

Basis for aquifer hydraulic connection evaluation: Grou	ndwater level is below nearby canals
Water Availability Basin the well(s) are located within:	NA

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:	NA							

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.

	Distributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
Distri	buted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	rence 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												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
(A) = To	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
( <b>D</b> ) = (A	A) > (C)	<b>/</b>	<b>√</b>	√	<b>√</b>	<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 that $(C)$ ; $(E) = total$ interference divided by	
	The potential to impair or detri	nentally affect the public interest is to b	e determined by the Wate
under this permit ca	n be regulated if it is found to subs	an be adequately protected from interferer tantially interfere with surface water:  n(s) as indicated in "Remarks" below;	
C6. SW / GW Remarks and	d Conditions		
References Used:			
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D. <u>W</u>	ELL CONSTRUCT	ΓΙΟΝ, OAR 690-200		
D1.	Well #:	Logid:		
D2.		not meet current well construction	standards based upon:	
		the well log;		
	b. I field inspe	ction by		
D2				
D3.		ruction deficiency: a health threat under Division 200 r	ulec	
		es water from more than one groundy		
		e loss of artesian head;	,	
		e de-watering of one or more ground cify)		
		5/		
D4.	THE WELL const	ruction deficiency is described as f	follows:	
D5.	THE WELL	a. was, or was not construction or most	cted according to the standards in effect a st recent modification.	t the time of
		b. I don't know if it met standa	ards at the time of construction.	
D6. [			pholding issuance of the permit until evid element Section and the Groundwater Sect	
THIS	S SECTION TO BE	COMPLETED BY ENFORCE	EMENT PERSONNEL	
D7. [	☐ Well construction d	leficiency has been corrected by the f	following actions:	
				200
	(Enforcem	ent Section Signature)		, 200
D8. [	☐ Route to Water R	ights Section (attach well reconstr	uction logs to this page).	