Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

or outlawater ring at ology section
FILE ## G-17511
ROUTED TO: Water Right - Kerr
~~
RANGE-SECTION: $255/30E \cdot 33$ 265/30E - 3+4
265/30E-3+4
CONDITIONS ATTACHED? [] yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
Parlama Mike Zwart
Reviewer: Mike Ewar

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	er Rights S	Section		DateJune 20, 2012								
FROM	1:	Grou	ind Water/	Hydrology	Section _	Mich								
SUBJ	гст.	A nnl	iontion G	17561			ewer's Name							
SODI	EC1.	Appi	ication G-	17561		Su	persedes re	view oi		Date of Re	eview(s)			
welfare to deter	690-310-1 e, safety a rmine wh	1 30 (1) <i>ind head</i> ether th	The Depart lth as descr e presumpt	<i>ibed in ORS</i> ion is establ	presume the 537.525. I ished. OAF	at a propos Department R 690-310-	ed groundw t staff review 140 allows t	ground wat he proposed	ensure the pre er applications use be modifie icies in place a	under OA	R 690-3	10-140 meet		
A. <u>GE</u>	<u>NERAI</u>	INFO	DRMATI	<u>ON</u> : A	pplicant's	Name:	Andy Roo	<u>t</u>		County:_	Harney	<u>/</u>		
A1.	1. Applicant(s) seek(s) <u>5.9</u> cfs from <u>five</u> well(s) in the <u>Malheur Lake</u> Basin, subbasin Quad Map: <u>Northwest & Northeast Harney Lake</u>													
						subb	asın Qu	ad Map:N	ortnwest & N	ortneast 1	Harney L	ake		
A2.									October 31					
A3.	well ar	ia aquii							wells as such	under lo	gid): 			
Well	Log	id	Applicant Well #		oposed	Propose Rate(cf	1	Location /R-S QQ-Q)		n, metes N, 1200' E				
1	HARN:	well# Aquiler*				8.91*		0E-33 SE-S		S, 2750' W				
2	HARN:		10		nic Seds.	5.57	26S/3		S, 455' E					
3	HARN:		11		nic Seds.	5.57		0E-3 NW-N		1005' S, 375' E fr NW cor S 3				
5	HARN:		12		nic Seds.	2.23		0E-33 SE-N		2605' S, 2450' E fr NW cor S 33** 1090' S, 2705' W fr NE cor S 4				
	um, CRB,	_		Voica	nic Seas.	2.23	205/3	<u> 30E-4 NE-N</u>	W 1090'	S, 2705' V	V IF NE CO	r S 4		
Alluvi	uiii, CICD,		<u> </u>											
Well	Well Elev ft msl	First Water ft bls	r SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield	Draw Down (ft)	Test Type		
1	4152	107	86	05/02/08	200	0-20	0-92	None	None	(gpm) 4000	10	P		
2	4162	104	104	02/11/11	167	0-18	0-60	None	None	2800	2	P		
3	4162	104	104	01/28/11	195	0-24	0-102	None	None	2800	5	P		
4	4135	88	88	10/21/11	170	0-18	0-108	None	None	1000	1.40	Air		
5	4159	100	92	02/10/08	280	0-35	0-35	None	None	1000	140	P		
Use data	from app	lication	for proposed	l wells.										
A4.									tes & bounds					
	<u>ceived 00</u> pplicant.								mbering on p	rior appli	cations f	rom the		
same a	ррисань.													
A5. ⊠	manage (Not all	ment of basin r	f ground wa	nter hydrauli n such provi	cally conne	ected to sur	face water [are, or 🗵	o the developn are not, activ					
	Comme	nts:												
A6. 🗌	Name o	f admir	istrative ar	ea:					er limited by a			triction.		

Version: 08/15/2003

Applica	ation (G- <u>17561</u>	continued	Date: June 20), 2012						
В. <u>GR</u>	OUN	D WATER AV	AILABILITY CONSIDERATION	IS, OAR 690-310-130, 400-(<u>010, 410-0070</u>						
В1.	Bas	ed upon available	e data, I have determined that ground wa	ter* for the proposed use:							
	a.	period of the	opriated, \square is not over appropriated, or \boxtimes cannot be determined to be over appropriated during any e proposed use. * This finding is limited to the ground water portion of the over-appropriation on 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 find is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;									
	c.	will not or 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; 									
B2.	a.	☐ Condition to	o allow ground water production from no	deeper than	_ ft. below land surface;						
	b.	☐ Condition to	o allow ground water production from no	shallower than	_ ft. below land surface;						
	c.	Condition to water reserve	allow ground water production only from	m the ft. below lan-	d surface;						
	d.	occur with th issuance of th Water Sectio	truction is necessary to accomplish one of its use and without reconstructing are cited permit until evidence of well reconstruction. y —as related to water availability—that its this, not within the capacity of the resource.	ed below. Without reconstruction is filed with the Departme is likely to occur without well re	on, I recommend withholding ent and approved by the Ground econstruction (interference w/						
В3.	Val	ley. Nearby SOV	bility remarks: <u>Region Manager Iva</u> N #177 was dropped in the early 1990 nts for other nearby wells are not yet	s, but water levels were genera	ally stable. Permit-condition						

cation G-	17561		contin	ued			Ι	Date: June	20, 2012			
ROUND	WA'	ΓER/SUF	RFACE	WATER C	ONSIDER.	<u>ATIONS,</u>	OAR 690-	<u>09-040</u>				
590-09-0	40 (1):	Evaluatio	n of aqui	fer confinem	ent:							
Well				or Proposed				Confined		Unconfined	_	
All	All Late Tertiary to Quaternary basalt a sedimentary rocks					clastic					\boxtimes	
	sedimentary rocks							\neg			—	
Basis for	r aquit	fer confin	ement ev	aluation: <u>\</u>	<u>Vater levels i</u>	in these an	d nearby we	ells are coi	ncident with o	r somewha	<u>t</u>	
above th	e dept	hs where	groundy	ater was fir	<u>st encounter</u>	ed. Region	nally, this ac	uifer is lil	kely unconfine	d and discl	<u>181</u>	
<u>to Harne</u>	ey or l	<u>Malheur L</u>	∡akes									
<u> </u>	10 (2)	(3). Evalu	ation of	listance to a	nd bydroulia	aannaatian	with curfoce	a water con	mana All walls	lacated a		
									rces. All wells			
horizon	tal dist	ance less t	han ¼ mi	le from a sur	face water so	urce that pr	roduce water	from an u	nconfined aquif	er shall be		
									eams located b		mi	
		ted for PS					idae in tino to	iore uniy ou	cums rocuted o	eyona one i		
that are												
					GW	CW		77 1	1:11	Potentia	al f	
117-11	SW		mfn a c 117	Ann Marri	•	SW	Distance		raulically	Subst. In		
Well	#	Su	irtace wa	ter Name	Elev	Elev	(ft)		nnected?	Assum		
	"				ft msl	ft msl	(11)	YES N	O ASSUMED	YES	.cu	
1	1	Harney	Lake		4066	4090±	24600		7	T ES	_	
2	1	Harney			4058	4090±	23300		+ + -		_	
3	1	Harney			4058	4090±	23300					
4	1	Harney			4047	4090±	26100				_	
5	1	Harney			4067	4090±	22700		i 		_	
<u> </u>		11ui iiej	Lunc		1007	10702	22700					
								- - -			_	
								 	 		_	
-						 		┌ ┤ ┼	 		_	
								 	+ 		_	
									<u></u>		_	
Dagie for		on hadnon	ilia aonn	ation avalu	ation. Those		ufaas watau		ithin 1 mile of	tha annliaa		
									ke. However,			
										narney an	<u>u</u>	
viaineur	<u>Lake</u>	s are reco	gnized in	ine literatu	re as dischar	ge areas f	or the groun	uwater re	source.			
											_	
											_	
Water A	vailab	ility Basir	n the wel	l(s) are loca	ted within:	No WAB o	<u>lata in this a</u>	rea				
690 - 09-0	40 (4)	: Evaluati	on of stre	am impacts	for each well	that has be	en determine	d or assum	ed to be hydra	ulically		
									s and minimum		ws	
									evaluation is tri			
									n (WAB). If Q		ıbu	
by well, ι	ise ful	rate for e	ach well.	Any checked	d 🔀 box indic	cates the we	ell is assumed	d to have th	ne potential to o	ause PSI.		
				Inghas	Ington		900/	0 > 10		D - 4		
		** / 11		Instream	Instream	Qw >	80%	Qw > 19		Poter		
Well	SW	Well <	Qw>	Water	Water	1%	Natural	of 80%	© 30 day	e for Si		
*** C11	#	1/4 mile?	5 cfs?	Right	Right Q	ISWR?	Flow	Natura		Inter		
						13 W K !	(-C-)	Flow?	(%)	Assur		
				ID	(cfs)		(cfs)	riow?		Assur	nec	

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?
									Var	rsion: 08/15/2003

Version: 08/15/2003

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 #		w > 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:	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-D	istributed	Wells										_	
Well	SW#	Jan	Feb	Mar	Apr	May	_ Jun _	Jul	Aug	Sep	Oct _	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
	outed Well		Esh	Man	A	Mari	T	11	A	Com	Oct	Mari	Das
Well	SW#	Jan %	Feb %	Mar	Apr %	May %	Jun %	Jul %	Aug %	Sep %	<u> </u>	Nov %	Dec %
Well Q	on CEC	76	70	70	70	70		70	70	70	70	70	76
	ence CFS												
merier	ence Crs	%	%	%	%	%	%	%	%	%	%	%	%
111.0	CPC	70	/0	-/0	/0	/0	70	/0	70	/0	/0		76
Well Q													
Interfer	ence CFS	0/	- 0/	0/	0/	0/	%	0/	0/	0/	0/	0/	0/
W. 11.0	ODG	_%	%	%	%	%	- %	%	%	%	%	%	%
Well Q													
Interfer	ence CFS	21	- 0/	21	21	21	- 0.1	21	0.4	0/	0.1	2.	
		%	%	%	%	%	%	<u>%</u>	%	%	%	%	%
Well Q	_												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
$(\mathbf{A}) = \mathbf{T}\mathbf{c}$	otal Interf.												
	% Nat. Q												
· ·	% Nat. Q												
(D) = (1	1) > (C)		4	1	-√'	√′	√ ·	v'		√′	\ ^		,
(D) = (A		√ %	- [√] %	√ %	√ %	<u>*</u>	· %	· %	√′	√ %	%	%	·/
(E) = (A	. / B) x 100	/0		/0	70	,70	70		70	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.

continued	Date: <u>June 20, 2012</u>
Posis for impact evaluation.	
Basis for impact evaluation:	
	
690-09-040 (5) (b) The potential to impair or detrimen Rights Section.	tally affect the public interest is to be determined by the W
under this permit can be regulated if it is found to substanti	-
ii. The permit should contain condition #(s) The permit should contain special condition(s)	as indicated in "Remarks" below;
W / CW Demarks and Con P.Con	
W / GW Remarks and Conditions	
eferences Used: Local well logs; local recent reviews; GV orcoran, 1972, Geologic Map of the Burns Quadrangle, O 30; Memo by Ivan Gall, 1/15, 2008, Stream Assessment for	regon, USGS Miscellaneous Geologic Investigations Map I
oo, meno by Ivan Gan, 1/13, 2006, 3theam Assessment for	Division 5 Review in the maineur Lakes Dasin.

Applic	ation G-17561continued Date: June 20, 2012
D. <u>WI</u>	ELL CONSTRUCTION, OAR 690-200
D1.	Well #: Logid:
D2.	THE WELL does not meet current well construction standards based upon: a. review of the well log; b. field inspection by report of CWRE other: (specify)
D3.	THE WELL construction deficiency: a. constitutes a health threat under Division 200 rules; b. commingles water from more than one ground water reservoir; c. permits the loss of artesian head; d. permits the de-watering of one or more ground water reservoirs; e. other: (specify)
D4.	THE WELL construction deficiency is described as follows: <u>I am not raising any well-construction issues with my review of the well logs.</u>
D5.	THE WELL a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.
	b. \(\text{I} \) I don't know if it met standards at the time of construction.
D6. [Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.
THIS	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	Well construction deficiency has been corrected by the following actions:
	(Enforcement Section Signature) , 200
D8.	Route to Water Rights Section (attach well reconstruction logs to this page).

WATER RESOURCES DEPARTMENT

MEN	MO .							J	une_	20 ,	20 2 _		
TO: FRO SUB,	M: JECT:	GW:	Application G- 17561 GW: Mike Zwart (Reviewer's Name) Scenic Waterway Interference Evaluation										
	_YES _NO	The s	ource of	approp	oriation :	is withir	n or abo	ve a Sco	enic Wa	iterway			
- L	YES Use the Scenic Waterway condition (Condition 7J)												
	Per ORS 390.835, the Ground Water Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below. Per ORS 390.835, the Ground Water Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway.												
Calcula calcula informi Exerci Water	ite the per ted, per c ing Water se of th way by	rcentage riteria in Rights th is permi	390.835, at the De it is calc	nptive use do not fi partment sulated t mounts	e by mont ill in the to is unable to reduce	h and fill able but c to make e month ed as a p	heck the a Prepor ly flows	"unable" nderance s in	option a of Eviden	bove, thu ce finding	s g. Scenic		
an	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
											1		

