# Water Right Conditions Tracking Slip Groundwater/Hydrology Section FILE # # 6~17634 ROUTED TO: W.R. TOWNSHIP/ RANGE-SECTION: 5N/36E-22 CONDITIONS ATTACHED?: Fryes [] no REMARKS OR FURTHER INSTRUCTIONS:

# WATER RESOURCES DEPARTMENT

MEN	МО							Ap	rila	22,	20. <u>13</u>	
TO: FRO SUB.	M: JECT:	GW:	ication  Ma  (R  ic Wate	ua Reviewer's	Most Name)	on	aluatio	n		•		
	YES  The source of appropriation is within or above a Scenic Waterway											
	YES Use the Scenic Waterway condition (Condition 7.J)											
/	interfe calcul Per O interfe the De that the	erence vated into RS 390. erence was epartmander prop	vith surferferences 835, the vith surferent is un osed us	ace wate is distemble Ground ace waten able to e will n	er that or that or that or water that or find the neasura	contributed below.  Section contributed thered by red	n is able tes to a n is una tes to a re is a pr uce the	ble to conscenic vereponde	Waterwalculate vaterwalerance e water	ground y; there of evide flows	water	
Calcula calcula informi Exerci	ite the pe ted, per c ng Water se of th	rcentage riteria in Rights th	390.835, at the De	nptive use do not fi partment ulated t	e by mont ll in the to is unable to reduc	able but c e to make e month	in the tab heck the a Prepon	"unable" nderance s in	option a of Evider	bove, thu	s Scenic	
			owing and low is re		express	ed as a j	proporti	on of th	e consu	imptive	use by	
an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

# PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Water	Rights Se	ection				Date	e <u> Ap</u> ı	ril 22,	2013		
FROM	•	Grou	ndwater Se	ection	Marc No	rton							
SUBJE	CT:	Appli	cation G	17634		Revi	ewer's Name persedes 1	review of		ı	Date of Rev	view(s)	
OAR 69 welfare, to deteri the presi	90-310-1 safety amine who umption	30 (1) 7 and heal of the the criteria.	The Departi th as descri presumption	bed in ORS on is establi w is based	resume that 537.525. D shed. OAR upon avail	a propos epartment 690-310- able infor	ed ground staff revie 140 allows mation an	water use will a w groundwate the proposed a nd agency poli- alla Walla	r applicat use be mo cies in pla	ions un dified ace at	nder OAF or condit	R 690-31 tioned to of evalu	0-140 meet a <b>tion</b> .
A1.								Umatilla					_ Basin,
A2. A3.	Propose	Walla \ ed use_ d aquif	Irri	gation - Vir	neyard	Seas	sonality: _	Quad Map: <u>Bo</u> <b>3///20</b> <b>3///2013 th</b> ark proposed	ı3 √o <del>rough H</del>	// <del>//3<b>0</b>/2</del> 0	13-		m AN
Well	Logic		Applicant's Well #	Propos	ed Aquifer*	Prop Rate	(cfs)	Location (T/R-S QQ- 05N/36E-23 N	-Q)	2250'	ion, mete N, 1200' S, 435' W	E fr NW	cor S 36
3 4													
5   * Alluviu	ım, CRB,	Bedrock										_	
Well 1	Well Elev ft msl 1615	First Water ft bls 278	SWL ft bls	SWI, Date 7/15/80	Well Depth (ft) 295	Seal Interval (fl) 0 - 30	Casing Intervals (ft) +1-30	Liner Intervals (ft)	Perforat Or Scre (ft)	ens	Well Yield (gpm) 400	Draw Down (ft)	Test Type
			for proposed		the proper	ty. UMA	Γ 4042 is I	ocated about	90 feet w	est of t	the prop	osed PO	<b>A.</b>
A5. □	Provisi manage (Not all Comme	ions of ment of basin r nts: Th	the <u>Umatil</u> groundwat ules contair e well is w	er hydraulic such provi	cally connectsions.)	ted to sur	face water	rules relative to are, or  of Milton-Fre lls.	are not,	activat	ed by thi	s applica	
A6. 🗌	Name o	f admin	istrative are	ea:		_		tap(s) an aquif				_	striction.

irrigation season.

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

Bas	sed upon available data, 1 have determined that groundwater* 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 groundwater 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 groundwater 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 groundwater resource; or
d.	<ul> <li>will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:</li> <li>i. ☐ The permit should contain condition #(s)7B Interference, 7N - Annual WL (February/March), 7P Well Tag, 7T - Measuring Tube, Large measuring and reporting with flow meter on each well</li> <li>ii. ☒ The permit should be conditioned as indicated in item 2 below.</li> <li>iii. ☒ The permit should contain special condition(s) as indicated in item 3 below;</li> </ul>
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 groundwater production only from <u>a single aquifer in the Columbia River Basalt</u> groundwater reservoir between approximately <u>270</u> ft. and <u>300</u> ft. below land surface;
d.	Condition to allow production only from a single aquifer in the Columbia River Basalt groundwater reservoir;
e.	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 Groundwater Section.
	<b>Describe injury</b> —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):
Fre gro futu aqu	bundwater availability remarks: The well is located within the five-mile boundary around the City of Milton- ewater wells. Based on the information on the Water Well Report and the location of the well, a barrier to undwater separates the proposed well from the City's wells and a groundwater permit could be issued. If, in the ure, the well is deepened, that determination might change. Therefore, condition B2 (c) limits the well to the nifer that is currently developed.  ere is concern about the well construction. The well log, UMAT 57059, indicates that there is "broken rock" from to 210 feet below land surface. The well constructor, Goral LaPorte, indicated that this was a fractured area but
the	re was no water. Goral LaPorte also indicated that a nearby well, UMAT 4042, encountered the same lrogeological conditions. UMAT 4042 indicates a black cinder and lava rock – very porous with a small amount of
wat	ter (3 – 5 gpm). The static water level reported on UMAT 4042 was 145' on 12/29/1980. The static water level in IAT 57059 was 175' on 7/15/1980. The two wells are located about 90 feet apart and at similar elevations, not
eno	ough to account for the 30 foot difference in water levels. Additional information needs to be collected to determine
	here is borehole flow prior to issuing a permit. See attached cross section. Limited License LL-1453 has been led to allow irrigation of the grapes through November 2013. A video and temperature log could be done after the

Date: April 22, 2013

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	CRBG	$\boxtimes$	
Basis fo	r aquifer confinement evaluation: <u>Groundwater levels rose a</u>	bove where water was en	ecounter.
	<u> </u>		
			_

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 ¼ 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

Basis for aquifer hydraulic connection evaluation: Groundwater was encountered at an elevation of 1337', over 140'								
below the elevation of the valley floor. Even allowing for sediments in the valley floor of 30 - 40', the aquifer is well								
below the river and not hydraulically connected within a one mile reach.								
Water Availability Basin the well(s) are located within:								

C3a. 690-09-040 (4): Evaluation of stream impacts for each well 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 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?
					-					

Application G-17634 Date: April 22, 2013

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% 1SWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
Comments:								

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.

	istributed		Eak	Man	A	Mou	Lun	Inl	Aug	Con	Oct	Nov	Dec
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		Nov	
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
Distrib	uted Wells		_	<del>-</del>									
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	Q as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
Interfer	ence CFS												
(A) - T	4.11.46						_						
	otal Interf.										_		
	% Nat. Q												
(C) = 1	% Nat. Q												
(D) =	(A) > (C)		_				_						
(E) = (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.

4

Page

690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the 'Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:			
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit san be regulated if it is found to substantially interfere with surface water:			_
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit san be regulated if it is found to substantially interfere with surface water:			
Rights Section.  If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:  i.			_
Rights Section.  If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:  i.			_
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:			
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:		<del></del>	
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:			_
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:	—		
under this permit can be regulated if it is found to substantially interfere with surface water:  i.	69		e V
ii.  The permit should contain special condition(s) as indicated in "Remarks" below;  W/GW Remarks and Conditions	] If ur	nder this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s)	ter
		ii. The permit should contain special condition(s) as indicated in "Remarks" below;	
References Used:	SW / (	GW Remarks and Conditions	
References Used:		·	_
References Used:			
References Used:			_
References Used:			
	Refer	ences Used:	
	Refer	ences Used:	
	Refer	ences Used:	

Date: April 22, 2013

Page

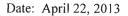
5

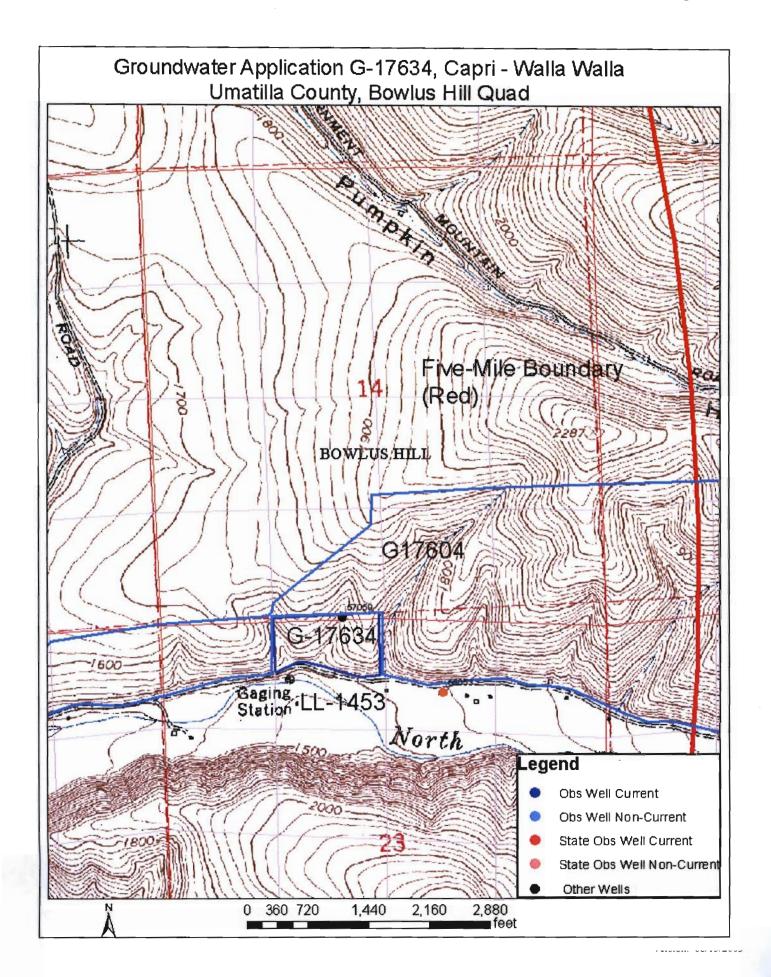
Application G-17634

6

Application G-17634	Date: A	April 22, 2013
D. WELL CONSTRUCTION, OAR 690-200		

D1.	Well #:	1	Logid: _	UMAT 57059		
D2.	a. 🛛 b. 🛣	review of the field inspection	t meet current well constru well log; on by <u>Marc Norton</u> RE y) <u>Nearby well, UMA</u>		•	
D3.	THE W a.  b.  c.  d.	/ELL constructions of constitutes a commingles of permits the longermits the dependent of the constitution	ction deficiency: health threat under Division 2 water from more than one gro oss of artesian head; e-watering of one or more gro y)	200 rules; oundwater reservoir; oundwater reservoirs	;	
D4.	57059. level. T feet. A v Limited	UMAT 4042 The well const video and dov I License, LL-	ction deficiency is described has a upper water bearing ructor indicated that both without temperature log should be the log was not submitted.	zone at 180 – 210 fe wells were in the sar ould be done to deter low the applicant to	et and when completed he material and did not of mine if there is borehole irrigate through Novem	had a shallower water encounter water above 278 e flow in the well. A
D5.	THE W		was, or ⋈ was not co original construction o  I don't know if it met s	or most recent modific	cation.	t the time of
D6.			ement Section. I recommend truent and approved by the E			
THI	S SECTIO	ON TO BE C	OMPLETED BY ENFO	PRCEMENT PER	SONNEL	
D7.	Well co	onstruction defi	ciency has been corrected by	y the following action	s:	<u>:</u>
				-		
D8.	☐ Route	•	t Section Signature) hts Section (attach well reco	onstruction logs to t	his page).	





	un pr	1×90'	Marc Norton 4/11/2013
/ <b>/</b> .00	broken de la	brownt Blat Brockin Bu Hard B. Bassall	
<i>150</i> 0	Black Broken Boscatt	Broker Black Basalt	
1400	Black Cinder  Lava  Very porous  3-59 fm  Hard  Dense  Dasset		9/2012 - Videolog 1/15/1980
1300	ned & Black cendur very porous water	Red Eray Porous-basalt	
<b>TOPS.</b> 35500			