## Water Right Conditions Tracking Slip

Groundwater/Hydrology Section
FILE ## G-17077
ROUTED TO: Water Rights - Jeans
TOWNSHIP! RANGE-SECTION: 45/13 E-7 ad
CONDITIONS ATTACHED? Myes [] no
REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Mike Zwart
Reviewer: Z

#### PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS TO: Water Rights Section Date October 16, 2008 Ground Water/Hydrology Section \_\_\_\_Mike Zwart FROM: Reviewer's Name Application G- 17077 Supersedes review of \_\_\_\_\_ SUBJECT: Date of Review(s) PUBLIC INTEREST PRESUMPTION; GROUNDWATER OAR 690-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation. A. GENERAL INFORMATION: Applicant's Name: Tygh Valley Orchards, LLC County: Wasco Applicant(s) seek(s) 1.00 cfs from 1 well(s) in the Deschutes Basin, A1. White River subbasin Quad Map: Tygh Valley Proposed use: <u>Irrigation, 108.68 ac. (S)</u> Seasonality: <u>March 1-October 31</u> A2. A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): Location, metes and bounds, e.g. Applicant's Proposed Location Well Logid Proposed Aquifer\* (T/R-S QQ-Q) Well# Rate(cfs) 2250' N, 1200' E fr NW cor S 36 1 Proposed 1 Bedrock 1.00 4S/13E-7 SE-NE 580' N, 41' W fr E 1/4 cor S 7 2 3 4 5 Alluvium, CRB, Bedrock Casing Well Well First Seal Liner Perforations Well Draw SWL SWL Test Well Elev Water Depth Interval Intervals Intervals Or Screens Yield Down ft bls Date Type ft msl ft bls (ft) (ft) (ft) (ft) (ft) (gpm) (ft) 300\* 1670 Est 300-Est 20-Est 20-400 200 200 Use data from application for proposed wells. Comments: All construction information is proposed and rather coarse estimates were made. \*Based on previous reviews and several local well logs, the static water level at properly constructed deep wells may be about 300 feet below land surface, but could be even deeper, which suggests that a deeper total depth may be necessary here. A5. Provisions of the Deschutes Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water are, or are not, activated by this application. (Not all basin rules contain such provisions.) Comments:

Well(s) # \_\_\_\_\_, \_\_\_\_, \_\_\_\_, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: \_\_\_\_\_\_

Comments:

Version: 08/15/2003

GR	<u>OUN</u>	D WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
1.	Bas	ed upon available data, I have determined that ground water* for the proposed use:
	a.	is over appropriated, ☐ is not over appropriated, or ☒ 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
	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) 7C  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;
2.	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 approved by the Ground Water 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):
3.		ound water availability remarks: Recent activity with new applications in this area likely warrants use of a
		asurement condition. Condition 7E was recommended for files G-16768, G-17034, G-17042 and G-17064. I believ t there is now need for use of a more robust measurement condition than has been previously recommended.

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1       1       Threemile Creek       1370±       1450       2950       □       □         1       2       Unn trib to Threemile Creek       1370±       1630       720       □       □	plication: C	G- <u>1</u>	7077	contin	ued			ľ	Date: 9	Octobe	er 16, 2008			3
Basis for aquifer confinement evaluation:   Based on nearby well logs, which report water levels somewhat above the water-bearing zones.	GROUNI	) WAT	TER/SUR	FACE	WATER CO	NSIDER.	ATIONS.	OAR 690-0	09-040	)				
Basis for aquifer confinement evaluation: Based on nearby well logs, which report water levels somewhat above the water-bearing zones.  2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than \(^1\) 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 Distance (ft) Distance (ft) West NO ASSUMED (Subst. Interface) 1 1 Threemile Creek 1370± 1450 2950							<i>,</i> -			-				
Basis for aquifer confinement evaluation: Based on nearby well logs, which report water levels somewhat above the water-bearing zones.  2. 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	Well			Aquife	r or Proposed		Confined U					Inconfined		
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2. 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. Include in this table any stream located beyond one mile that are evaluated for PS1.    Well   SW   Surface Water Name   GW   Elev		_   (Int	erbedded	sandstor	ie, conglomera		井			<del>-  -</del>				
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Well   SW   Surface Water Name   Elev   E	horizoi assume	ntal dist ed to be	tance less t hydraulica	han ¼ mi ally conne	le from a surfa	ce water so	ource that pr	oduce water	from a	in unco	onfined aquife	er shal	ll be	nile
1   1   Threemile Creek   1370±   1450   2950   □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Well	1	Sı	ırface Wat	er Name	Elev	Elev		-	Conne	ected?	Sub A	st. Inte	erfer.
1   2   Unn trib to Threemile Creek   1370±   1630   720   □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	1	1	-	Threemile	Creek	1370+	1450	2950	П	N		<del>_</del>	7	
Basis for aquifer hydraulic connection evaluation:  The targeted aquifer is well below the nearby reaches of the cree However, the White River is likely incised through this aquifer and the likely head relationship suggests that the river a ground-water discharge area.  Water Availability Basin the well(s) are located within:  70088 WHITE R> DESCHUTES R- AT MOUTH  1. 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 are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compather requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distribut 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 Qw Instream Water Water Water Hight Q IsWR? Flow Natural for Subst Interference (eg) 30 days (%) IsWR? (cfs) Flow? (cfs) Flow?									=	X	T -			X
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Well SW   Well < Qw > Water   Right Q   Iswr?   Start   Right   Right Q   Iswr?   Right   Righ	Water A  . 690-09- connect are pertithe requ	Availab 040 (4) ted and inent to	white River discharge bility Basin bility Ba	er is like ge area. In the well ion of stree 1 mile from the water stree 1% o	ly incised through the learning are located through the located through through the lo	d within:_ er each well rater source lower SW flow for the	70088 WH that has been been been cources to we pertinent	ITE R> DE en determine uation to ins which the stre Water Availa	SCHU ed or as tream re eam un ability I	TES Issumed rights a der every Basin (	R- AT MOU'  to be hydra and minimum aluation is tri WAB). If Q	TH ulical stream	ly m flov Con	ver is
	Well				Water Right	Water Right Q	1%	Natural Flow	of Na	80% tural	@ 30 days		for Su Interf	bst. fer.
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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: 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-Distributed W		6.1				¥ .	r 1		0	0.4		D
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
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS											_	
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS		-										
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS								_				
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS										_		_
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS									_		_	
						1 - 1 - 1 - 1 - 1	Length			100		
(A) = Total Interf.												
(B) = 80 %  Nat.  Q												
(C) = 1 % Nat. Q												
(D) = (A) > (C)							-					
$(E) = (A / B) \times 100$	%	%	%	%	%	%	%	%	%	%	%	9/

(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: <u>Based on previous work in this area, interference with the White River will be much l</u> han 1% of flows, so it is judged to be unnecessary to complete these calculations here.
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	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section.
$\boxtimes$	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water under this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s) 7J
	ii.   The permit should contain special condition(s) as indicated in "Remarks" below;
SW	V / GW Remarks and Conditions:
_	
_	
_	
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	ferences Used: <u>Local well logs; local reviews of files G-16721, G-16763, G-16768, G-17034 G-17042 &amp; G-17064;</u>
	plogic man of the Dufur Quad. (I-556) by A. C. Waters, 1968
	ologic map of the Dufur Quad. (I-556) by A. C. Waters, 1968.
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Date: October 16, 2008

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App	lication: G- <u>17077</u>	continued	Date: October 16, 2008	6
D. <u>V</u>	WELL CONSTRUC	CTION, OAR 690-200		
D1.	Well #:	Logid:		
D2.	a. review of b. field insp	CWRE	•	;
D3.	a. constitute b. comming c. permits tl d. permits tl	estruction deficiency: The same a health threat under Division 200 rules; The same a health threat under Division 200 rules; The same a health threat under Division 200 rules; The loss of artesian head; The de-watering of one or more ground water reserve the de-watering or de-water	oirs;	
D4.				
D5. D6.	THE WELL	<ul> <li>a. was, or was not constructed according original construction or most recent modes.</li> <li>b. I don't know if it met standards at the tire forcement Section. I recommend withholding issume pepartment and approved by the Enforcement Section.</li> </ul>	ng to the standards in effect at the time of lification.  me of construction.  ance of the permit until evidence of well reconstruction.	n
TH	IS SECTION TO R	BE COMPLETED BY ENFORCEMENT PI	PRONNEL	
		deficiency has been corrected by the following act		
				_
				_
	(Enforce	ement Section Signature)	, 200	_
D8.	☐ Route to Water	Rights Section (attach well reconstruction logs t	o this page).	
				=

# WHITE R> DESCHUTES R- AT MOUTH DESCHUTES BASIN

Water Availability as of 10/14/2008

Watershed ID #: 70088

Exceedance Level:

Date: 10/14/2008

Time: 11:25 PM

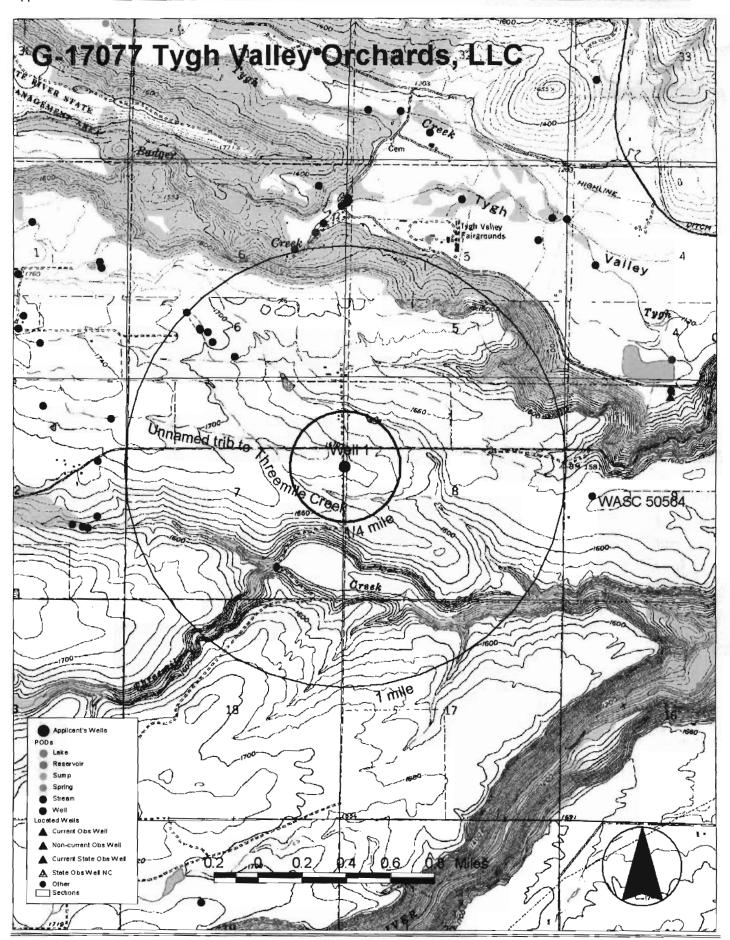
Water Availability Calculation | Consumptive Uses and Storages | Instream Requirements | Reservations |

Water Rights | Watershed Characteristics |

## Water Availability Calculation

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

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Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available			
Jan	250.00	20.40	230.00	0.00	60.00	170.00			
Feb	366.00	35.30	331.00	0.00	100.00	231.00			
Mar	376.00	39.60	336.00	0.00	145.00	191.00			
Apr	452.00	61.50	390.00	0.00	145.00	245.00			
May	477.00	113.00	364.00	0.00	145.00	219.00			
Jun	290.00	121.00	169.00	0.00	100.00	68.80			
Jul	192.00	89.60	102.00	0.00	60.00	42.40			
Aug	159.00	72.40	86.60	0.00	60.00	26.60			
Sep	148.00	64.60	83.40	0.00	60.00	23.40			
Oct	149.00	52.00	97.00	0.00	60.00	37.00			
Nov	151.00	5.82	145.00	0.00	60.00	85.20			
Dec	211.00	8.59	202.00	0.00	60.00	142.00			
Storage Acre- Feet at 50%	276,000.00	41,300.00	235,000.00	0.00	63,600.00	171,000.00			



### WATER RESOURCES DEPARTMENT

MEM	(O							Oc	tober	16,2	00_8
TO: FROM SUBJ	M: ECT:	GW:	Mile	e Z		nce Eva	luation				
	_YES _NO	The so	urce of	approp	riation i	s within	or abov	⁄e a Sce	nic Wat	erway	
	_YES _NO	Use th	e Scenie	e Water	way cor	ndition (	Conditi	on 7J)			
/	Per OF interfe the De that the	rence wated interest. S 390. rence water partments prop	with surferences 835, the with surferences us ent is un osed us	ace wat e is dist Ground ace wat nable to e will n	er that caributed d Water er that confind the measura	sontribu below. Section contribu nat ther	tes to a s	Scenic V ble to ca scenic v reponda surface	Waterwa alculate waterwa erance e water	ground y; there of evide flows	water fore,
Calcula calcula informi Exerc Water	RIBUTION TO THE PROPERTY OF TH	rcentage riteria in Rights th is perm the follo	of consur 390.835, at the De it is calc owing a	nptive us do not fi epartment culated mounts	e by montaill in the total is unable to reduce express	able but of the to make the month	check the a Prepor	"unable' nderance s in	option a of Evider	bove, thu nce finding	s g. Scenic
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec