Water Right Comditions Irracking Slip Groundwater/Hydrology Section FILE ## G-/7064 ROUTED TO: Water Rights TOWNSHIP/ RANGE-SECTION: 41/126-13 ha CONDITIONS ATTACHED? Wyes [] no REMARKS OR FURTHER INSTRUCTIONS: Reviewer: Mike Zwart

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS TO: Water Rights Section Date September 4, 2008 Mike Zwart FROM: Ground Water/Hydrology Section Reviewer's Name Supersedes review of _____ SUBJECT: Application G- 17064 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: Ray and Paula Benzel Applicant(s) seek(s) 0.390 cfs from 1 well(s) in the Deschutes Basin, A1. Quad Map: Tygh Valley White River subbasin Proposed use: Supplemental Irrigation, 168.8 ac. Seasonality: March 1 – October 31 A2. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): A3. Applicant's Location, metes and bounds, e.g. Proposed Location Proposed Aquifer* Well Logid Well# 2250' N, 1200' E fr NW cor S 36 Rate(cfs) (T/R-S QQ-Q) WASC 51413 basalt 0.390 4S/12E-13 NE-NW 15' S, 2775' W fr NE cor S 13 1 1 2 3 4 5 * Alluvium, CRB, Bedrock Well Well Well Seal Perforations First Casing Liner Draw SWL SWL Test Well Elev Water Depth Intervals Yield Interval Intervals Or Screens Down ft bls Date Type ft msl ft bls (ft) (ft) (ft) (ft) (ft) (gpm) (ft) 459 0-115 -2-115 1750 279 220 9/24/05 none 170 A Use data from application for proposed wells. A4. Comments: The well develops basalt (CRB) and possibly overlying Dalles Formation rocks (Waters, 1968).

Applica	tion:	G- <u>1</u>	7064	continued			Date: S	September 4, 2008	2
B. <u>GRO</u>	<u>DUN</u>	D WAT	ER AV	<u>AILABILITY</u>	CONSIDERA	TIONS, OAR 690-	310-13 <u>0, 4</u>	00-010, 410-0070	
B1.	Base	ed upon a	available	data, I have de	termined that gro	und water* for the pro	posed use:		
	a.	perio	od of the	proposed use.	ot over approprial * This finding is I n OAR 690-310-1	imited to the ground w	letermined vater portion	to be over appropriated of the over-appropriati	during any on
	b.					mounts requested with ury determination as p		o prior water rights. * To OAR 690-310-130;	his finding
	c.	☐ will	not or [will likely to	be available with	in the capacity of the g	ground wate	r resource; or	
	d.	i.	☐ The	permit should co permit should b	ontain condition # e conditioned as i		ow.	the ground water resource.	rce:;
B2.	a.	☐ Cor	idition to	allow ground v	vater production f	rom no deeper than		ft. below land su	ırface;
	b.	☐ Cor	idition to	allow ground v	vater production f	rom no shallower than	ı	ft. below land su	ırface;
	c.	Con wate	dition to er reservo	allow ground w ir between appro	ater production o	nly from the ft. and	ft. belov	w land surface;	_ ground
	d.	occu	ir with thi	s use and witho e permit until e	ut reconstructing	are cited below. With	out reconstr	tions. The problems that ruction, I recommend wi artment and approved by	thholding
								ell reconstruction (inter	
В3.						y with new application		area likely warrants us 4 and G-17042.	e of a

water w	or aquife as first e	er confiner ncountered	Fm. (Td)	iver Bas of Wate	salt and poors, 1968.	ssibly Dalles	C	Confine	d	U	Inconfine	d
Basis for water w	or aquife as first e	er confiner ncountered	Fm. (Td)	of Wate	rs, 1968.	ssibly Dalles						
vater w	240 (2) (2)	ncountered 3): Evalua		tion: _V	Vater level					1134000		
0-09-0	240 (2) (2)	ncountered 3): Evalua		tion: _V	Vater level	17.30	_					
vater w	240 (2) (2)	ncountered 3): Evalua		tion: _V	Vater level	1/-10-1						-
ater w	240 (2) (2)	ncountered 3): Evalua		tion: _V	Water level							
	d to he l		an 1/4 mile fr	om a sur	nd hydrauli	c connection source that pre	with, surface	water	source n unco	es. All wells l	ocated a	e
		ed for PSI.		ma V	GW Elev ft msl	SW Elev ft msl	Distance (ft)	31/1	Hydrau Conne	lically	Poten Subst. Assu	tial for Interfer. imed?
1	1	Thr	eemile Creek		1530	1490-1665	2350	П		П	YES	NC ⊠
$\frac{1}{1}$	2		to Threemil		1530	1520-1810	1335	H	X			X
1	3	V	Vhite River		1530	1210	10500					
	1 —	10.00						H	H		H	-
						E-1-1-1						
							110					
	-				1 2 3	100		H	H	1		
Vater 200-09- onnective pertone required	Availabited and inent to tested raise	lles Forma le river ma llity Basin Evaluation less than 1 that surface the against the	the well(s) at on of stream mile from a water source he 1% of 80% ch well. Any	are local impacts a surface ce, and no	ted within: for each we water source tower SVal flow for the state of	70088 - WE that has been been Limit evaluated to we were to we he pertinent V dicates the week. Qw > 1%	HITE R> DE en determine uation to ins which the strew	eschud or as tream ream unbility Ed to have	TES F sumed ights a der even	R- AT MOUT to be hydra and minimum aluation is tri WAB). If Q	TH ulically stream f butary. C is not di ause PSI	lows the

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?
1								
Comments: This	section does n	ot 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.

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS	_											
Interferer					_								
	ted Wells												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	J <u>ul</u>	Aug	Sep	Oct	Nov	Dec
		_%	_%	_%	_%	%	%	%	%	%	%	%	%
Well Q a													
Interfere	nce CFS												
		%	%	%	%	%	_%	%	%	%	%	_%	%
Well Q a	s CFS												
Interferen	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS		•										
Interfere	nce CFS										_		_
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS											-	
Interferen					_	_				_			
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS	_		_									
Interferen	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS									_			
Interfere			15										
(A) = Tot	al Interf.												
(B) = 80 °	% Nat. Q												
(C) = 1 %	Nat. Q												
(D) = (A)	> (C)		1	-	1	1	1						
	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.

is to be determined by the
the control of the latest the latest
rference, and/or ground water
w;
,
<u></u>

Appı	ilication: G	1/004	continued			Date: Septen	1001 4, 2008	0
D. <u>V</u>	WELL CON	STRUCT	<u>ION, OAR 690-</u>	<u>200</u>				
D1.	Well #: _	1		Logid: _	WASC 51413			
D2.	a. b. c.	review of the field inspect report of C	ne well log; stion by WRE sify)		ection standards based u			; ;
D3.	a.	constitutes commingle permits the permits the	loss of artesian heade-watering of one	er Division 2 than one gro ad; e or more gr	200 rules; ound water reservoir; round water reservoirs;			
D4.	THE W		•					
D5.	THE W		original co	nstruction o	onstructed according to the primost recent modification	on.	t at the time of	
D6.	☐ Route t is filed w	o the Enfo	rement Section.	I recommen	standards at the time of conditions of the conditions and the conditions and the conditions and the conditions are conditions and the conditions are conditional conditions.	of the permit until ev	idence of well reconstruct Section.	tion
TH	IS SECTIO	N TO BE	COMPLETED	BY ENFO	DRCEMENT PERSO	NNEL		
D7.	☐ Well cor	nstruction d	eficiency has been	corrected by	y the following actions: _			
		(Enforceme	ent Section Signatu	ire)				
D8.	☐ Route t	to Water R	ights Section (atta	ich well rec	construction logs to this	page).		H Mala

Date: September 4, 2008

Detailed Reports for Watershed ID #70087

DESCHUTES R> COLUMBIA R- AB MOUTH AT GAGE 14103000
DESCHUTES BASIN

Water Availability as of 9/2/2008

Watershed ID #: 70087

Exceedance Level:

80% ▼

Date: 9/2/2008

Time: 10:14 AM

Water Availability Calculation

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

	and the second second	Control of the land of the lan	Charles and the second second	OF PARTY COLD DV	and the second s	and the same of th
Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	4,970.00	672.00	4,300.00	450.00	4,500.00	-652.00
Feb	5,530.00	749.00	4,780.00	450.00	4,500.00	-169.00
Mar	6,140.00	1,020.00	5,120.00	450.00	4,500.00	174.00
Apr	6,470.00	989.00	5,480.00	450.00	4,000.00	1,030.00
May	6,220.00	1,160.00	5,060.00	450.00	4,000.00	610.00
Jun	5,560.00	1,220.00	4,340.00	450.00	4,000.00	-114.00
Jul	4,610.00	964.00	3,650.00	450.00	4,000.00	-804.00
Aug	4,320.00	869.00	3,450.00	450.00	3,500.00	-499.00
Sep	4,410.00	754.00	3,660.00	450.00	3,800.00	-594.00
Oct	4,520.00	796.00	3,720.00	450.00	3,800.00	-526.00
Nov	4,610.00	849.00	3,760.00	450.00	3,800.00	-489.00
Dec	4,820.00	775.00	4,050.00	450.00	4,500.00	-905.00
Storage Acre- Feet at 50%	4,390,000.00	653,000.00	3,730,000.00	326,000.00	2,950,000.00	507,000.00

Date: September 4, 2008

Application: G- 17064 continued

Detailed Reports for Watershed ID #70088

WHITE R> DESCHUTES R- AT MOUTH DESCHUTES BASIN

Water Availability as of 9/2/2008

Watershed ID #: 70088

Exceedance Level:

80%

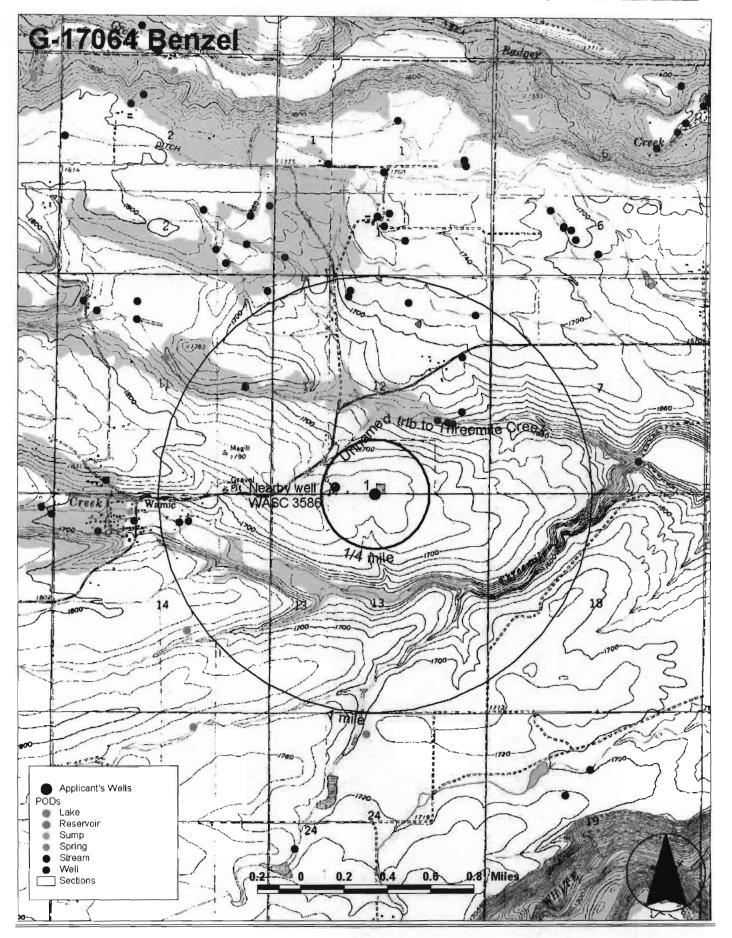
Date: 9/2/2008

Time: 10:14 AM

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	250.00	20.30	230.00	0.00	60.00	170.00
Feb	366.00	35.30	331.00	0.00	100.00	231.00
Mar	376.00	39.70	336.00	0.00	145.00	191.00
Apr	452.00	61.60	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

MEMO	Sept. 4,200 8
то:	Application G- 1 7064
FROM:	GW: Mke Zwart (Reviewer's Name)
SUBJECT:	Scenic Waterway Interference Evaluation
YES	
NO	The source of appropriation is within or above a Scenic Waterway
V YES	
NO	Use the Scenic Waterway condition (Condition 7J)
interfe	RS 390.835, the Ground Water Section is able to calculate ground water erence with surface water that contributes to a Scenic Waterway. The ated interference is distributed below.
interfe the D that t	RS 390.835, the Ground Water Section is unable to calculate ground water erence with surface water that contributes to a scenic waterway; therefore, epartment is unable to find that there is a preponderance of evidence he proposed use will measurably reduce the surface water flows sary to maintain the free-flowing character of a scenic waterway.
Calculate the pecalculated, per c	ION OF INTERFERENCE ercentage of consumptive use by month and fill in the table below. If interference cannot be criteria in 390.835, do not fill in the table but check the "unable" option above, thus Rights that the Department is unable to make a Preponderance of Evidence finding.
Waterway by	the following amounts expressed as a proportion of the consumptive use by water flow is reduced.
Ian Feb	Mar Anr May Jun Jul Ang Sen Oct Nov Dec