TEREST REVIEW FOR GROUN	ND WATER APPLICATION	<u>NS</u>
Water Rights Section	Date_	July 19, 2004
Ground Water/Hydrology Section	Michael Zwart Reviewer's Name	
Application G- 16211	Supersedes review of	N/A
		Date of Review(s)
	Water Rights Section Ground Water/Hydrology Section Application G16211 EREST PRESUMPTION; GROUNI	Ground Water/Hydrology Section Michael Zwart Reviewer's Name

: G	round Water/Hy	drology Section	Michael	Zwart		
	·		Reviewer	's Name		
CT: A	pplication G1	16211	Supers	sedes review of	N/A	
•			•			of Review(s)
IC INTER	EST PRESIMI	PTION: CROUNI	DWATED			
20-310-130 l	(1) The Depurime	ni snan presume mai	a proposea g	rounawater use witt ens	ure ine preservaii	on of the public
, <i>sujery una i</i> mino whotho	r the presumption	in established OAD	eparuneni sia	il leview ground water a	pprications under	UAK 090-310-140
umption crit	i ilie presumpuon	is based when evel	090-310-140	anows the proposed use	be modified or co	inditioned to meet
umption crit	ena. I nis review	is based upon avail	abie informa	tion and agency policies	s in place at the t	ime of evaluation.
NERAL IN	FORMATION	: Applicant's N	lame: Lo	uis and Karen Hamil	ton County:	Wasco
Annliaant/a) and (a) 111	afa from		n the December		D :-
Applicant(s	s) seek(s) <u>1.11</u>	_ cis iroin <u>one</u>	well(s) i	n theDescribes		Basir
Wh	ite River		subbasin	Quad Map: Wam	ic	
D	· T •	4* 400.0 /D.0.	G) G			
Proposea u	se: <u>Irriga</u>	tion, 400.0 ac. (P &	S) Seasona	lity: July I to Octo	ber 31	
well and a	quiter data (attaci	n and number logs t	or existing w	ells; mark proposed we	ells as such under	· logid):
Logid	Applicant's	Proposed	Proposed	Location	Location, me	tes and bounds, e.g.
Logid	Well #	Aquifer*	Rate(cfs)	(T/R-S QQ-Q)	2250' N, 120	0' E fr NW cor S 36
WASC 5118	35 1	Bedrock	1.11	4S/12E-26 NE-NW	2550' E, 240	'S fr NW cor S 26
	1	, -	= =			
		10	<u> </u>		-	
		77 11			S	
IM CDR Rec	lrock	100		<u> </u>		
	IC INTER 90-310-130 (safety and I mine whethe sumption crite NERAL IN Applicant(s Wh Proposed u Well and ac Logid WASC 5118	IC INTEREST PRESUM: 90-310-130 (1) The Departme, safety and health as describe mine whether the presumption cumption criteria. This review NERAL INFORMATION Applicant(s) seek(s) 1.11 White River Proposed use: Irriga Well and aquifer data (attack Logid Applicant's Well # WASC 51185 1	IC INTEREST PRESUMPTION; GROUND 90-310-130 (1) The Department shall presume that safety and health as described in ORS 537.525. Described in ORS 537	Reviewer Supers IC INTEREST PRESUMPTION; GROUNDWATER 90-310-130 (1) The Department shall presume that a proposed ground health as described in ORS 537.525. Department stamine whether the presumption is established. OAR 690-310-140 sumption criteria. This review is based upon available information criteria. This review is based upon available information. NERAL INFORMATION: Applicant's Name: Low well(s) in the White River subbasing well and aquifer data (attach and number logs for existing well and adult an	Reviewer's Name Supersedes review of IC INTEREST PRESUMPTION; GROUNDWATER 90-310-130 (1) The Department shall presume that a proposed groundwater use will ens., safety and health as described in ORS 537.525. Department staff review ground water a mine whether the presumption is established. OAR 690-310-140 allows the proposed use sumption criteria. This review is based upon available information and agency policies. NERAL INFORMATION: Applicant's Name: Louis and Karen Hamil Applicant(s) seek(s) 1.11 cfs from one well(s) in the Deschutes White River subbasin Quad Map: Wam Proposed use: Irrigation, 400.0 ac. (P & S) Seasonality: July 1 to Octowell and aquifer data (attach and number logs for existing wells; mark proposed well and aquifer data (attach and number logs for existing wells; mark proposed well and aquifer data (attach and number logs for existing wells; mark proposed well and aquifer data (attach and number logs for existing wells; mark proposed well and aquifer data (attach and number logs for existing wells; mark proposed well and aquifer data (attach and number logs for existing wells; mark proposed well and aquifer data (attach and number logs for existing wells; mark proposed wells; mark p	Reviewer's Name Supersedes review of N/A Date of N/A Date of N/A Date of N/A Date of N/A CINTEREST PRESUMPTION; GROUNDWATER 90-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the preservation, safety and health as described in ORS 537.525. Department staff review ground water applications under mine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or community of the proposed use be modified or community of the proposed use be modified or community. Applicant is based upon available information and agency policies in place at the the NERAL INFORMATION: Applicant(s) seek(s) 1.11 cfs from one well(s) in the Deschutes White River subbasin Quad Map: Wamic Proposed use: Irrigation, 400.0 ac. (P & S) Seasonality: July 1 to October 31 Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under Aquifer* Rate(cfs) (T/R-S QQ-Q) 2250' N, 120 WASC 51185 1 Bedrock 1.11 4S/12E-26 NE-NW 2550' E, 240

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	1775	334	240	8/29/03	400	0-296	0-296	None	None	300	121	Air
	1											
										- 3		

Use data from application for proposed wells.

A4.	Comments: <u>Drawdown estimated from air test</u> . Well yield reported is less than the rate requested.								
1	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:								
A6. 🗌	Well(s) #								

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B. <u>G</u> 1	<u>ROUI</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070										
B1.	Bas	Based upon available data, I have determined that ground water* 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 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.	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) 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 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. 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):										
В3.	Gro	ound water availability remarks:										
	_											
	_											
	-											
	_											

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		49 1 4 4				OAR 690-			
317 - 11	/40 (1)	: Evaluation of aqu							
Well			er or Proposed				Confined	τ	Inconfined
1	Very	likely the Dalles	Fm. (Td) of W	<u>/aters, 1968.</u>					
<u> </u>		<u> </u>							
<u> </u>							y — v		1 22
the well	<u>l bore.</u>	fer confinement e The lithologic de from review of t	escription is no	<u>t detailed to</u>	be sure th	at the well i	evel that wat penetrates th	er was first one Dalles For	encountered mation, but
horizor assume	ntal dis ed to be	(3): Evaluation o tance less than ¼ rehydraulically conted for PSI.	nile from a suri	face water so	urce that pr	roduce water	from an unco	onfined aquife	er shall be
Г	T	_ -							Potential f
 	SW			GW	SW	Distance		ılically	Subst. Inter
Well	#	Surface W	later Name	Elev	Elev	(ft)		ected?	Assumed
				ft msl	ft msl	(**)	YES NO	ASSUMED	YES
1	1	Unnamed cr. to	north	1535	1770	400			
1	2	Unnamed cr. to	south	1535	1810	2100			
1	3	Rock Creek		1535	1540	4400			
1	4	White River		1535	1320	6000			
1	5	Threemile Cree	k	1535	1630	9600			- H
						7000		- 	- - -
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						<u></u>			
	r aqui	er hydraulic com	<u>within the bed</u>	and canyon	of the rive	River is incier. The head	sed deeply e 1 relationshi	nough to like p is such tha	ly expose the
water-b to expec	et that	the aquifer provi	des base flow : ell(s) are locat	to the White ed within:	River. White Riv	er > Deschu	tes River at	mouth (7008	8).
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water-b to expect Water A 690-09-0 connecte are pertithe reque	ot that Availab 040 (4) ed and nent to ested ra use ful	the aquifer provi- pility Basin the we be: Evaluation of st less than 1 mile if that surface water atte against the 1% I rate for each well	ream impacts from a surface source, and no of 80% natural. Any checked	or each well water source. I lower SW states flow for the box indicates.	that has been Limit evaluates to very pertinent water the weater t	en determine uation to inst which the stre Water Availa ell is assumed 80%	d or assumed ream rights a am under even bility Basin (I to have the Qw > 1%	to be hydrau and minimum aluation is tril WAB). If Q potential to ca	stream flows butary. Comp is not distributause PSI.
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water-b to expect Water A 690-09-(connecte are pertithe requeby well,	040 (4) ed and nent to ested ra use ful	the aquifer provi- pility Basin the we Evaluation of st less than 1 mile if that surface water ate against the 1% I rate for each well Well < Qw > 1/4 mile? 5 cfs?	ream impacts for a surface of source, and no of 80% natural. Any checked Instream Water Right	or each well water source. t lower SW s flow for the box indic Instream Water Right Q	that has been Limit evaluates to very pertinent very limit evaluates the wear limit evaluates th	en determine uation to inst which the stre Water Availa ell is assumed 80% Natural Flow	d or assumed ream rights a am under every bility Basin (do to have the Qw > 1% of 80% Natural	to be hydraund minimum aluation is tril WAB). If Q potential to continue and the continue a	stream flows butary. Comp is not distribute PSI. Potential for Subs Interfer

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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?
	1 2							

Comments: ____This section does not apply (hydraulic connection is not within one mile).

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	Wells											
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1 4	13.9%	11.5%	9.8%	8.5%	7.5%	6.6%	15.5%	24.7%	30.9%	35.5%	23.7%	17.5%
Well Q as CFS	-						1.11	1.11	1.11	1.11		
Interference CFS	0.154	0.127	0.108	0.094	0.083	0.074	0.172	0.275	0.343	0.394	0.263	0.194
Distributed Wel	ls											
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										İ		
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
1	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS				ļ			1					
(A) = Total Interf.	0.154	0.127	0.108	0.094	0.083	0.074	0.172	0.275	0.343	0.394	0.263	0.194
(B) = 80 % Nat. Q	250	366	376	452	477	290	192	159	148	149	151	211
(C) = 1 % Nat. Q	2.5	3.66	3.76	4.52	4.77	2.9	1.92	1.59	1.48	1.49	1.51	2.11
(D) = (A) > (C)	V	V	1	- /	1	~	/	1	1	1	1	- /
$(E) = (A / B) \times 100$	0.06%	0.03%	0.03%	0.02%	0.02%	0.03%	0.09%	0.17%	0.23%	0.26%	0.17%	0.09%

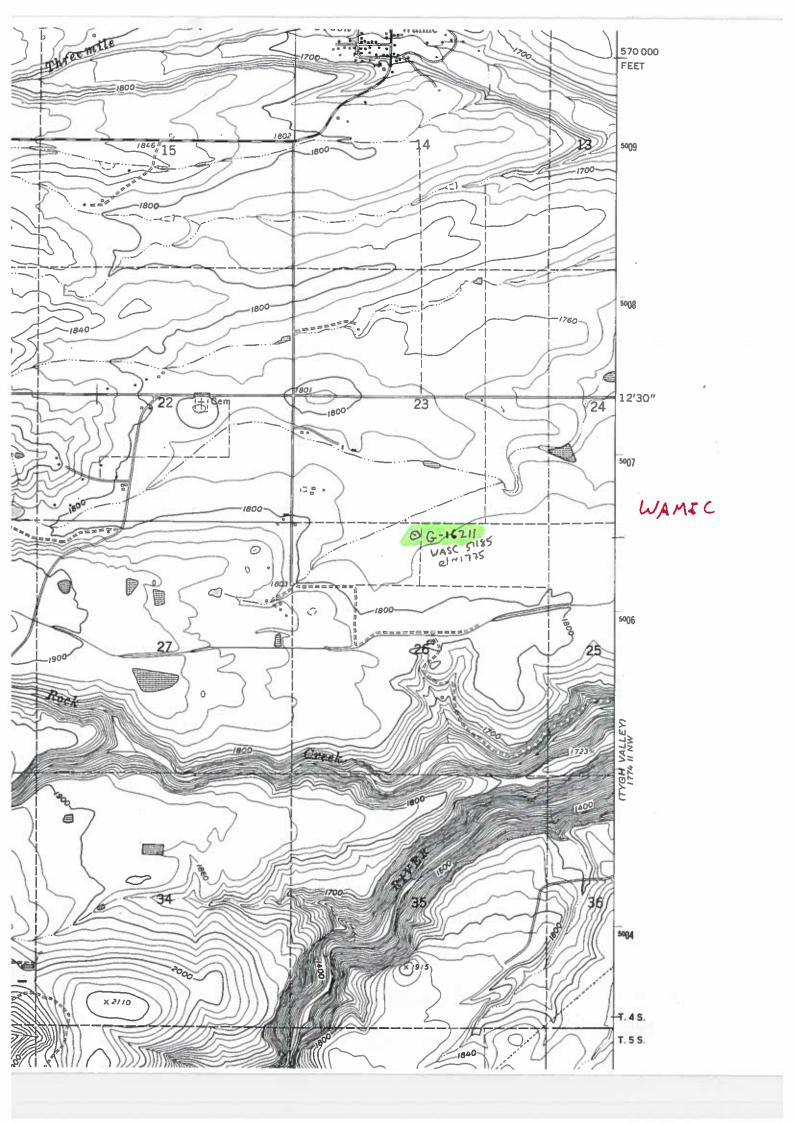
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otal interference as CFS;	(B) = WAB calculated natural flow at 80% exceed, as CFS; (C) = 1% of calculated natural	flow at 80% exceed.
(D) = highlight the check	kmark for each month where (A) is greater than (C); (E) = total interference divided by 80%	flow as percentage.
	luation: Used current version of Wozniak modification of the Hunt stream de	
	Obes carretin for order of frozings modification of the trust and and	piction moden
		
		5400
		= 5.77
		5976
600 00 040 (5) (5)	The material to impose an devianmentally offers the multiplication of the best distributions.	
	The potential to impair or detrimentally affect the public interest is to be det	ermined by the wa
Rights Section.		
If properly condition	ioned, the surface water source(s) can be adequately protected from interference, an	id/or ground water i
	an be regulated if it is found to substantially interfere with surface water:	,
	rmit should contain condition #(s) 7J	
i. 🖂 The per	That should contain condition #(S) /J	
ii. 🔲 The per	rmit should contain special condition(s) as indicated in "Remarks" below;	
·		
		350000
eferences Used: <u>Loc</u>	cal well logs; Geologic map of the Dufur Quad. (I-556) by A. C. Waters, 1968.	
186		

App	Date: July 19, 2004
D. <u>'</u>	WELL CONSTRUCTION, OAR 690-200
D1.	Well #: Logid:WASC 51185
D2.	THE WELL does not meet current well construction standards based upon: a. review of the well log; b. field inspection by c. report of CWRE d. other: (specify)
D3.	THE WELL construction deficiency: a.
D4.	THE WELL construction deficiency is described as follows:
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. 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.
TH	IS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	☐ Well construction deficiency has been corrected by the following actions:
	,200
	(Enforcement Section Signature)
D8.	☐ Route to Water Rights Section (attach well reconstruction logs to this page).
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Water Resources Department

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SU	BJECT		Scenic Waterway Interference Evaluation										
V	Ye.		e sourc	e of ann	ronriati	ia:	41-1	.1					
	No		The source of appropriation is within or above a Scenic Waterway										
	Yes												
_	7 No		e the Sc	enic Wa	aterway	conditi	on (Cor	ndition '	7J).				
] 140									-60			
PRI	EPOND	FR A N	CE OE	EVIDE	MOE E	NIDDIC		8					
18.	EPOND												
]	sur	face wa	nat the ter flow	propos s neces	sed use	of gro	ound wa	ater wi	ll meas	surably	iderance reduce of a sce	the
		Wal	ciway i	ıı quanı	ities nec	cessary	or recr	eation,	fish and	wildli	fe.		
							f						
FLO)W REI	DUCTI	ON: <i>(Ta</i>	o be fille	ed out o	nly if <u>Pr</u>	<u>eponde</u>	erance o	<u>f Evide</u>	nce box	is not d	checked)	=3
wat	rcise of erway b	y the f	ollowin	g amou	ed to rec	duce mo ressed a	nthly fl s a proj	lows in	De.	onsum	es otive us	Scer	nic ich
sul I	ace wate	er How	is redu	ced.									
	Jan	Feb	Mar	Apr	May	Jun	Jul	7000	g _e			r	7
	.139	.115	.098	.085	.075	.066	.155	Aug .247	Sep	0ct	Nov	Dec	
					2010	1000	1173	- CTP	. 301	• 222	1234	.175	



Status	SWW	Treaty	Cert.	Cert.	_	_	_	
-	4500.00	3000.00	3000.00	4500.00	0.00	0.00	00.0	4500.00
2	4500.00	3000.00	3000.00	4500.00	0.00	00.0	00.0	4500.00
m	4500.00	3500.00	3500.00	4500.00	00.0	00.0	00.0	4500.00
な	4000.00	3500.00	3500.00	4000.00	00.0	00.0	00.0	4000.00
īΟ	4000.00	3500.00	3500.00	4000.00	0.00	00.0	0.00	4000.00
9	4000.00		3500.00	4000.00	00.0	00.0	00.0	4000.00
7	4000.00	3000.00	3000.00	4000.00	00.0	00.0	00.0	4000.00
∞	3500.00	<u>-</u>	3000.00	3500.00	00.0	00.0	00.0	3500.00
9	3800.00	3000.00	3000.00	3800.00	00.0	00.0	0.00	3800.00
10	3800.00	3000.00	3000.00	3800.00	00.0	00.0	00.0	3800.00
11	3800.00	3000.00	3000.00	3800.00	00.0	00.0	00.0	3800.00
12	4500.00	3000.00	3000.00	4500.00	00.0	00.0	00.0	4500.00
			1	1 1 1 1 1 1 1 1 1				

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 7/16/2004 for
WHITE R > DESCHUTES R - AT MOUTH

Time: 13:41	Time: 13:41)			2	Date: 07/16/2004	07/16/2004
Month	Month Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor CU + Stor Expected Prior to After Stream 1/1/93 1/1/93 Flow	Expected Stream Flow	Reserved Stream Flow	Instream Net Water Wat Rights Ava	ı 0.⊣
ᆏ	250.00	10.70	8.37		00.0	00.09	171.00
7	366.00		_	335.00		100.00	
c	376.00	22.10				145.00	195.00
4	452.00	42.00	18.50	391.00	00.00	145.00	246.00
Ŋ	477.00		15.90	356.00	00.00		211.00
9	290.00		00.00		00.00	100.00	78.00
7	192.00		00.00		00.00		54.50
ထ	159.00	62.70	00.00	96.30	00.00	60.00	36.30
6	148.00	55.20	00.00	92.80	00.0		32.80
10	149.00	44.80	00.00	104.00	00.00		44.20
11	151.00	5.07	00.00	146.00	00.00		85.90
12	211.00	7.93	00.00	203.00	00.00	00.09	143.00
Stor	276000	33900	4380	238000	0	63600	174000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES Water Availability as of 7/16/2004 for WHITE R > DESCHUTES R - AT MOUTH

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Level: 80 07/16/2004	Total	19.10	31.30	35.70	60.60	22.00	12.00	77.50	62.70	55.20	44.80	5.07	7.93
Ψ	Other To	!						00.0					
Exceedanc Date:		0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
ES	Munic Ind/Man Commer Domest Agricul	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DESCHUTES	ommer D	0.00	00.0	00.00	00.00	00.0	00.0	00.0	00.0	00.0	00.00	00.0	00.0
Basin:	ind/Man C	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
888	Munic	0.00	0.00	0.00	0.00	0.00	00.0	0.00	00.0	00.0	0.00	00.00	0.00
#: 70088	Irrig	0.00	00.0	8.87	32.50	106.00	102.00	71.90	58.10	50.90	40.40	00.0	00.0
Watershed ID Time: 13:41	Mo Storage	18.50	30.70	26.20	27.50	14.90	9.62	5.03	4.00	3.71	3.78	4.45	7.31
Water	Mo St	<u> </u>	7	m	4	2	9	7	<u></u>	<u>0</u>	10	17	12

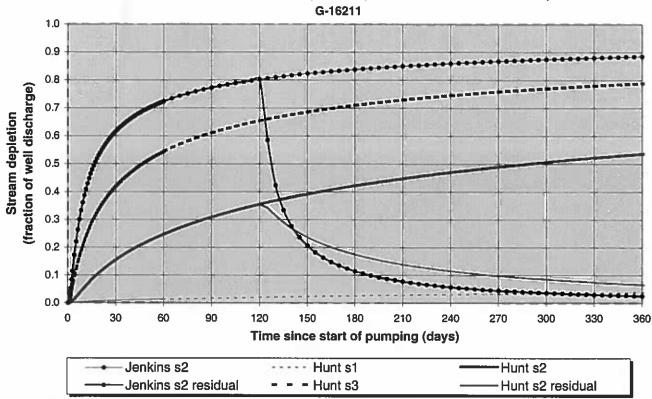
Exshed ID #: 70088 Basin: DESCHUTES Exceedance Level Exceedance Level Basin: DESCHUTES Exceedance Level Basin: DESCHUTES Date: 07/16/ Color			WHITE	Α.	DESCHUTES R	- AT MOUTH	TH		
## 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Watersh Time:	ID 41	70088	Ba	sin: DESC	HUTES	Excee	edance Le ate: 07/	vel: 80 16/2004
tus 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		l 0	_ o	0	0	0	0		TOTAL
1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Status	—			— - - - - - -		<u> </u>		
1 0.00 0.	Use								
0.00 0.00		00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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0.00	m	00.0	00.00	00.0	00.0	0.00	00.0	00.0	00.0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	一	00.0	00.00	00.0	00.00	0.00	00.0	00.0	00.0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Ŋ	00.0	00.00	00.0	00.00	00.0	00.0	00.0	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	9	00.0	00.0	00.0	00.00	0.00	00.0	00.0	00.0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7	00.0	0.00	00.0	00.00	0.00	00.0	00.0	00.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	-	00.0	0.00	0.00	0.00	0.00	00.0	00.0	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	<u>ი</u>	00.0	00.00	0.00	00.00	0.00	00.0	00.0	00.0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	10	0.00	00.00	00.0	00.0	00.0	00.0	00.0	00.0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	11	00.0	0.00	00.0	00.0	0.00	00.0	0.00	00.00
	12	00.0	00.0	00.0	00.00	00.0	00.0	00.0	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS Water Availability as of 7/16/2004 for WHITE R > DESCHUTES R - AT MOUTH

-				_	-	_	_	_		_	_	_	_	_
Exceedance Level: 80 Date: 07/16/2004	MAXIMUM		60.00	100.00	145.00	145.00	145.00	100.00	60.00	60.00	60.00	60.00	60.00	60.00
eedance I Date: 07		 	00.0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.0	00.0	00.0	00.00
	0	<u> </u>	0.00	00.0	00.0	00.0	00.0	00.0	00.0	0.00	0.00	0.00	0.00	0.00
TES	- 0		0.00	00.00	00.0	00.0	00.0	00.0	00.0	00.0	00.0	0.00	00.0	00.0
led ID #: 70088 Basin: DESCHUTES 13:41	ISWRS	 	0.00	00.0	00.0	00.0	00.0	0.00	00.0	0.00	0.00	00.0	00.0	00.0
	70088A	Cert.	60.00	100.00	145.00	145.00	145.00	100.00	60.00	60.00	60.00	60.00	00.09	00.09
	202A	Cert.	60.00	100.00	145.00	145.00	145.00	100.00	60.00	60.00	60.00	60.00	60.00	60.00
	201A	Cert.	60.00	95.00	95.00	95.00	95.00	95.00	60.00	60.00	60.00	60.00	60.00	60.00
Watershed ID Time: 13:41	APP #	Status	1	2	m	4	r)	9	7	80	6	10	11	12

Oregon Water Resources Department • 158 12th ST. NE • Salem, OR 97310 • Phone: (503)378-8455 • Fax: (503)378-2496

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)



Output for H	unt Strea	ım Deple	tion, Sce	nerio 2 (s2):	Time pu	mp on =	120 days				
Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.155	0.247	0.309	0.355	0.237	0.175	0.139	0.115	0.098	0.085	0.075	0.066
Qw, cfs	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
H SD s2, cfs	0.172	0.275	0.343	0.394	0,263	0.194	0.154	0.127	0.108	0.094	0.083	0.074

Parameters:		Scenario 1	Scenario 2	Scenario 3	Units
Net steady pumping rate	Qw	1.11	1.11	1.11	cfs
Distance to stream	a	6000	6000	6000	ft
Aquifer hydraulic conductivity	К	50	20	50	ft/day
Aquifer thickness	b	600	600	600	ft
Aquifer transmissivity	Т	30000	12000	30000	ft*ft/day
Aquifer storage coefficient	S	0.005	0.005	0.005	
Stream width	ws	25	25	25	ft
Streambed hydraulic conductivity	Ks	0.01	0.2	1	ft/day
Streambed thickness	bs	5	5	5	ft
Streambed conductance	sbc	0.05	1	5	ft/day
Stream depletion factor (Jenkins)	sdf	6	15	6	days
Streambed factor (Hunt)	sbf	0.01	0.5	1	

Wells in the vicinity of application G 16211 Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s) Application well(s) in this 1/4-1/4 section • Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi, radius of application well(s) Critical GW Area Well(s) identified in the section from OWRD's well log database within 1 mi-radius of application well(s) Regulated GW Area Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s) OWRD Observation well and well-id within 5 mi, radius of application well(s) 3 5 Tygh Va Iticante Ditte Wamic Sieth 3 E

WELL LOGS WITHIN 1 MILE OF APPLICATION G 16211

RECONDIT REP CONVE	AIRED: RSION: NINGS:	0 0 0 0 2 4				
INDUSTRI INJECTI IRRIGATI	IC USE: AL USE: ON USE: AL USE: CK USE:	0 6 0 0 0 0 0	*****	*****	*****	
	PERMITTED	WELLS WITH	IN 1 MILE	OF APPLICA	TION G 1	5211
\$RECNO 1 2 2	APPLICATION G 9518 G 16211 G 16211 *******	PERMIT G 8932 0 0 *******		0 4.00S12 0 4.00S12	.00E15SWSE .00E26NENW .00E26NENW	
	CONDITIONE	D WELLS WI	THIN 5 MIL	ES OF APPL	ICATION G	16211
\$RECNO 1 1 1 2 2 2 2	APPLICATION G 12798 G 12798 G 12798 G 12798 G 12798 G 12798 G 12798 G 12798 G 12798	G 12172 G 12172 G 12172 G 12172 G 12172	4.00S12 4.00S12 4.00S12 4.00S12 4.00S12 4.00S12 4.00S12	.00E 9NWSE .00E 9NWSE .00E 9NWSE .00E 9NWSE .00E10SWSW .00E10SWSW .00E10SWSW	7BR 7BG 7BR 7BG 7BR 7BG 7BR	-CODE
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