		ver ear Diable Continu		April 29	2002
TO:		Water Rights Section	10.1	7.1	
FRON	<b>/</b> i:	Groundwater/Hydrology Secti	on / lichael Review	ver's Name	
SUBJI	ECT:	Application G-15518	5	upersedes revie	w form dated July 10, 2001
CPO	רואו וי	OWATER/SURFACE WATER CO	ONSIDERATIONS	1 DO 41- :- /:-	
1.	PER	THE Basin rules,	Oue of more of me l	oroposed POAs is/is and	taps a
		feet/mile of a surface water sou indwater source hydraulically connect	rce (		•
2.	BASI	ED UPON OAR 690-09 currently in eff	fect, I have determine	d that the proposed g	roundwater use
<b>2</b>	a	_will, or have the potential for	Substantian Interior		or
	b	will not surface water source	eals, protect the surrac	6 March mon morrer	ence:
	c. <u>~</u>	will if properly conditioned, adequated i. The permit should contain	condition #(s)	B ;	
		a mit aboutd contain c	nemai inididudida wa		ks" below;
		iiThe permit should be conditi	ioned as indicated in	item 4 below; or	interference.
	d.	iiiThe permit should be conditionally will, with well reconstruction, adequate the conditional will be conditionally with well reconstruction.	juately protect the su	Mace Hollt substantial	II I'
an.	~	DWATER AVAILABILITY CONS	SIDERATIONS		
GKC	<u>JUIVL</u>	SED UPON available data, I have dete	rmined that groundw	ater for the proposed	use
3.	a.	SED UPON available data, I have determined will, or likely be available in will not and/or within the cap	the amounts requeste	d without injury to p	rior rights
*	.b. V	will not and/or within the cap will if properly conditioned, avoid in	acity of the resource;	or ts or to the groundw	ater resource:
	c. <u>-/</u>	will if properly conditioned, avoid in	condition #(s)	7B:	
		a m m	mariai condidoiusi e	S III (III CARCA III - III III	rks" below;
		iiThe permit should be condit	ioned as indicated in	item 4 below; or	
		•			
		_THE PERMIT should allow ground	lwater production fr	om no deeper than_	ft.
4.	a				
	b	The permit should allow groundw	rater production from	n no shallower than	
		below land surface;		ly from the	diam'r.
					land surface;
	đ.	groundwater reservoir between a Well reconstruction is necessary to	accomplish one or n	nore of the above con	aditions.
	e	Well reconstruction is necessary toOne or more POA's commingle 2 or	r more sources of wa	ter. The applicant in	from each
		_One or more POA's commingte 2 of source of water per POA and speci source.	ry the proportion of	water to be produced	
		¥ 0 /	1 1. R R	sell sinifers	
RE	MAR	KS: * 36. applies to Col	umbla Morer 13	asair aquiters	1
		3 C. applies to the	Dalles Formano	- Maritim	
		e de la companya de l			man mikiley
=					
		(Well Construction C	onsiderations on Re	verse Side)	

	July 10 mass 2001
TO:	Water Rights Section
FROM:	Water Rights Section  Groundwater/Hydrology Section Michael Zwert  Reviewer's Name
SUBJECT:	Application G- 15518
1. PER	WATER/SURFACE WATER CONSIDERATIONS  THE Basin rules, one or more of the proposed POA's is/is not within feet/mile of a surface water source () and taps a andwater source hydraulically connected to the surface water.
	DUPON 0AR 690-09 currently in effect, I have determined that the proposed groundwater use will, or have the potential for substantial interference with the nearest will not surface water source, namely; or will if properly conditioned, adequately protect the surface water from interference:  i The permit should contain condition #(s) + B; ii The permit should contain special condition(s) as indicated in "Remarks" below; iii The permit should be conditioned as indicated in item 4 below; or will, with well reconstruction, adequately protect the surface from substantial interference.
3. BASI	DWATER AVAILABILITY CONSIDERATIONS  ED UPON available data, I have determined that groundwater for the proposed use  _will, or likely be available in the amounts requested without injury to prior rights  _will not and/or within the capacity of the resource; or  will if properly conditioned, avoid injury to existing rights or to the groundwater resource:  iThe permit should contain condition #(s);  iiThe permit should contain special condition(s) as indicated in "Remarks" below;  iiiThe permit should be conditioned as indicated in item 4 below; or
c <u></u>	THE PERMIT should allow groundwater production from no deeper thanft.  below land surface; The permit should allow groundwater production from no shallower thanft.  below land surface; The permit should allow groundwater production only from theft.  groundwater reservoir between approximatelyft. andft. below land surface;  Well reconstruction is necessary to accomplish one or more of the above conditions.  One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.
REMAR	KS: See memo to file
ė e	
	(Well Construction Considerations on Reverse Side)

## OREGON WATER RESOURCES DEPARTMENT INTEROFFICE MEMO

To:

Ground Water files

Date: July 10, 2001

From:

Michael J. Zwart

Subject:

Application Review: G-15518, City of The Dalles, Brian Stahl,

Public Works Director

This application proposes to use about 180 gpm from three wells (#9: WASC 2504, #1: WASC 2502 (deepening), #5: WASC 2503) for primary irrigation of 7.5 acres and commercial use (heating/cooling). The wells produce water from a weakly semiconfined to confined aquifer developed in the Dalles Formation, primarily sandstone and siltstone, and from underlying basalt of the Columbia River Basalt Group. Based on the provided well logs, the water-bearing zones may be hydraulically connected, since no head changes were reported upon penetrating water-bearing zones in the basalt. However, the wells reportedly produce the majority of the water from the basalt. The application indicates that these wells are dewatering wells designed to stabilize an active landslide.

The wells are about 4400 to 4600 feet from the Columbia River and about 600 to 1900 feet from Dry Hollow, an intermittent creek. The aquifer is not likely in hydraulic connection with the nearby reach of these surface water sources. There is no potential for substantial interference with surface water, based on the confined to semiconfined nature of the aquifer, the head relationship, and the distance, in the case of the Columbia River.

The wells are within the Dalles Critical Ground Water Area. The controlling order for the critical area, under section 5, states: "Wells developing water from the Dalles formation shall not penetrate into the Columbia River basalt formation." Based on this language, it does not appear possible to issue a permit for these wells, as presently constructed. A permit could be issued if the wells were reconstructed so as to produce water only from the Dalles Formation. This could be done if the bottom portions of the boreholes were sealed up to the top of the basalt.

I recommend permit condition 7B, if a permit is issued.