<u>PUBL</u>	IC INT	ERE	<u>ST REV</u>	IEW FOR	R GROU	ND WAT	TER APP	LICATIO	<u>NS</u>				
TO:		Wate	r Rights S	ection				Date	e	<u>June 15,</u>	2005		
FROM	[:	Grou	nd Water/	Hydrology	Section _								
SUBJI	ECT:	Appl	ication G-	16439			ewer's Name persedes re	view of		N/A	Date of Re	view(z)	
OAR 6 welfare to deter the pres	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: <u>The Miller Ranch Company</u> County: <u>Wasco</u>												
A1.	Applica	nt(s) se	ek(s) <u>12.</u>	<u>68</u> cfs fro	m <u>six</u>	well((s) in the	Hood					_ Basin,
]	<u>Fifteen</u>	Mile Cree	k		subb	asin Qu	ad Map:	ufur	East			
A2. A3.													
Well	Logi	ogid Applicant's Well #					sed Location cfs) (T/R-S QQ-Q)			Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36			
1	WASC		1		CRB	0.557						fr NW co	
2	Propo		2		CRB	2.424		4E-18 SE-N				fr NE cor	
3	Propo		3		CRB	2.424		4E-18 SE-N				fr NE co	
	Propo		4		CRB	2.424							
5	Propo		5		CRB	2.424		E-18 NW-N					
6 * Alluvi	Propo um, CRB,		6		CRB	2.424	15/14	E-18 SW-N	W	264	10' S fr N'	W cor S 1	8
* Alluvi	Well	First			Well	Seal	Casing	Liner	Do	forations	Well	Draw	
Well	Elev	Wate	SWL	SWL	Depth	Interval	Intervals	Intervals	1	Screens	Yield	Down	Test
	ft msl	ft bls	ft bls	Date	(ft)	(ft)	(ft)	(ft)		(ft)	(gpm)	(ft)	Туре
1	1190	687*	-254	3/20/95	718	0-545	0-545	None	Noi	10	415	?	F
2	1260	710	Flow		740	0-550+	0-700	None	Noi	10	1088		
3	1300	750	Flow		780	0-550+	0-740	None	Noi	1e	1088		
4	1290	790	Flow		820	0-550+	0-780	None	Noi	1e	1088		
5	1245	830	Flow		860	0-550+	0-820	None	Noi	ıe	1088		
6	1290	870	Flow		900	0-550+	0-860	None	Noi	1e	1088		
Use data	from app	ication	for proposed	wells.								1	
	d propos com a cas	ed seal	depths. 'I	he intended	l construc	tion for the	proposed v	ff. <u>See attac</u> wells is simil eal depths w	lar to	existing w	vell #1, b	ut it was	not
				*									1.000
	_							_	-		_		
	_												
A5. 🛛	5. \square Provisions of the <u>Hood</u> Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water \square are, or \square are not, activated by this application.												

iot, activated by this appli (Not all basin rules contain such provisions.) Comments: _____

.

Well(s) # _____, ___, ___, ___, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: ______, A6. 🔲 Well(s) # ____ Comments:

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

- B1. 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. is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
 - c. i 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) 7C; 7K: 550 feet, shallower water-bearing zones
 - 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. Welt 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):

B3. Ground water availability remarks: <u>Potential for water-level declines and overdraft of the resource exists virtually</u> <u>everywhere the Columbia River Basalt aquifers are developed, especially east of the Cascades where recharge is</u> <u>small. If no measurement/decline condition is used, as recommended above, then I would need to re-review the file,</u> with the likely result being that one or both of the boxes 'will not likely be available...' being checked under B1b or <u>B1c. If future water-level monitoring in this area discloses declines, I will likely find that the basalt ground water</u> resource is over appropriated.

Version: 08/15/2003

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
All	Basalt of the Columbia River Basalt Group		

Basis for aquifer confinement evaluation: <u>Water-bearing zones in the CRB are typically confined in this area. The static level at well #1 is well above the water-bearing zone.</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
1	1	Starveout Creek	1444	1185	200		
1	2	Fifteenmile Creek	1444	_1100	3100		
2	1	Starveout Creek	1445±	1195	1100		
2	2	Fifteenmile Creek	1445±	1105	3900		
3	1	Starveout Creek	1445±	1225	1300		
3	2	Fifteenmile Creek	1445±	1130	4700		
4	1	Starveout Creek	1445±	1230	600		
4	2	Fifteenmile Creek	1445±	1130	5500		
5	1	Starveout Creek	1445±	1240	100		
5	2	Fifteenmile Creek	1445±	1130	6300		
6	1	Starveout Creek	1445±	1270	600		
6	2	Fifteenmile Creek	1445±	1130	6700		

Basis for aquifer hydraulic connection evaluation: <u>The significant head difference suggests poor local connection.</u>

Water Availability Basin the well(s) are located within: <u>Starveout Cr > Fifteenmile Cr at mouth (30410541)</u>.

C3a. 690-09-040 (4): Evaluation of stream impacts for <u>each well</u> 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 < ¼ 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?

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 Well SW#	Jan	Feb	Mar	A	Man	Turn	T1	A.u.a	Com	0	Mari	Dee
	Jaii %	reb %	1111	Apr %	May %	Jun %	Jul %	Aug	Sep	Oct %	Nov %	Dec %
Well Q as CFS	/0	70	70		/9	/0			70	70	70	70
Interference CFS			[_	
Interference CFS												
Distributed Well	s							-				
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-	%	%	°/a	⁰ /o	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	···· · · · · · · · · · · · · · · · · ·	%	%	%	°⁄0	°/a	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	"/o	%	~~ %	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	1%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	°%	"/a	%	%	%	%	%	%	%	%	
Well Q as CFS												,,,
Interference CFS												
	%	%	⁰∕₀	%	*/0	%	%	%	°/u	%	ª⁄o	%
Well Q as CFS												
Interference CFS												
		—			1						1	
(A) = Total Interf.												
(B) = 80 % Nat. Q								-				
(C) = 1 % Nat. Q								= 1				
(D) = (A) > (C)	A	- 16-1	A	A	A.	4	4	4	100	157	A	1
$(E) = (A / B) \times 100$	%	"/u	"/o	¶/8	%	%	%	¶⁄u	%	%	°/a	%

(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. Version: 08/15/2003

olication G- <u>16439</u>	continued	Date: June 15, 2005
Basis for impact ev	valuation:	
690-09-040 (5) (Rights Section		ntally affect the public interest is to be determined by the W
Rights Section	Itioned, the surface water source(s) can be regulated if it is found to substant	be adequately protected from interference, and/or ground water
Rights Section If properly cond under this permit i. The	1. litioned, the surface water source(s) can b	be adequately protected from interference, and/or ground water tailly interfere with surface water:
Rights Section If properly cond under this permit i. The j ii. The j	Itioned, the surface water source(s) can be regulated if it is found to substant permit should contain condition #(s)permit should contain special condition(s)	be adequately protected from interference, and/or ground water vially interfere with surface water:
Rights Section If properly cond under this permit i. The j ii. The j	Itioned, the surface water source(s) can be regulated if it is found to substant permit should contain condition #(s)permit should contain special condition(s)	be adequately protected from interference, and/or ground water ially interfere with surface water:) as indicated in "Remarks" below;
Rights Section If properly cond under this permit i. The j ii. The j	Itioned, the surface water source(s) can be regulated if it is found to substant permit should contain condition #(s)permit should contain special condition(s)	be adequately protected from interference, and/or ground water ially interfere with surface water:) as indicated in "Remarks" below;
Rights Section If properly cond under this permit i. The j ii. The j	Itioned, the surface water source(s) can be regulated if it is found to substant permit should contain condition #(s)permit should contain special condition(s)	be adequately protected from interference, and/or ground water ially interfere with surface water:) as indicated in "Remarks" below;
Rights Section If properly cond under this permit i. The ii. The	Itioned, the surface water source(s) can be regulated if it is found to substant permit should contain condition #(s)permit should contain special condition(s)) as indicated in "Remarks" below;
Rights Section If properly cond under this permit i. The j ii. The j	Itioned, the surface water source(s) can be regulated if it is found to substant permit should contain condition #(s)permit should contain special condition(s)	be adequately protected from interference, and/or ground water ially interfere with surface water:) as indicated in "Remarks" below;

. *

References Used: Local well logs; nearby application reviews; regional geologic maps.

• *

D. <u>W</u>	ELL CONSTRUCTION, OAR 690-200
D1.	Well #: 1 Logid: WASC 2217
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. constitutes a health threat under Division 200 rules; b. commingles water from more than one ground water reservoir; c. permits the loss of artesian head; d. permits the de-watering of one or more ground water reservoir; e. other: (specify)
D4.	THE WELL construction deficiency is described as follows:
D5.	THE WELL a. 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.
THIS	S SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	Well construction deficiency has been corrected by the following actions:
	(Enforcement Section Signature), 200

D8.

Route to Water Rights Section (attach well reconstruction logs to this page).

Water Resources Department

MEMO

TO

June 15, 2005

Application G-16439 GW: Michael Zwart FROM

SUBJECT Scenic Waterway Interference Evaluation

Yes No

The source of appropriation is within or above a Scenic Waterway

Yes No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: (To be filled out only if <u>Preponderance of Evidence</u> box is not checked)

Exercise of this permit is calculated to reduce monthly flows in Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Constant and	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec]
													ł



Mike Zwart

From:	"Walker, Tom" <twalker@whpacific.com></twalker@whpacific.com>
To:	"ZWART Mike J" <mike.j.zwart@state.or.us></mike.j.zwart@state.or.us>
Cc:	<mirranch@aol.com></mirranch@aol.com>
Sent:	Wednesday, June 15, 2005 9:52 AM
Subject:	The Miller Ranch Company Application G-16439

Mike,

Thank you for your call and comments on the pending Miller Ranch groundwater application. Mr. William Miller and I discussed your evaluation of the seal depth for proposed wells and agree with your assessment. Based upon the estimated elevation of the existing well (#1) and the seal depth to 545 feet, we would expect to seal proposed wells to a depth of 550 feet to 650 feet below the ground surface. Generally, Mr. Miller expects to seal the casing into the confining layer immediately above the artesian flow to eliminate co-mingling or seepage into upper aquifers and optimize the production from the aquifer. Under section C in the original application, we described a similar program for control of artesian flow.

Please consider this email a clarification for the pending Miller Ranch application. We appreciate your review and the chance to comment.

Thomas A. Walker, P.E., C.W.R.E.

5413884229

Creative Solutions ... Superior Service



FAX

To: Company Address City/State Phone:	•	Date: Project Number: Project Name Re:	June 15, 2005 30162 The Miller Ranch Company Pending Groundwater Appropriation OWRD File #: G-16439					
Fax:	503-986-0902	·····						
From:	Thomas A. Walker, P.E.,C.W.R.E.	E. Confidentiality Notice: This facsimile is intended only for the use of the individual and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby						
Phone:	(541) 388-4255	this communication, o	horized dissemination, distribution or copying of r the taking of any action in reliance on the					
Fax:	(541) 388-4229	contents of this information is strictly prohibited. If you have rec this facsimile in error, please notify us immediately by telephone (collect) Thank you						
We are s	randing: These A	re Transmitted:	Copied To:					

We are	sending:	These A	re Transmitted:	Copied To:
\boxtimes	Attached	\boxtimes	For Your Info/File	William C. Miller
\boxtimes	Facsimile		As Requested	
2	# Of Pages Including Cover	\boxtimes	For Review & Comment	

Copies	Description
1	Reduced Scale Application Map with Well Numbers

Mike,

We appreciate your work on the pending Miller groundwater appropriation and the opportunity to clarify the application. Please consider our attachment with well numbers and never hesitate to contact me with any further questions or any need for additional information.



JUN 1 5 2005 WATER RESOURCES DEPT, SALEM, OREGON

Civil and Structural Engineering

Landscape Architecture
Planning

Surveying and Mapping

360902

P.1/2

Washington + Oregon + Idaho



		0			
ABANDON:		0			
RECONDITIONED:		0			
REPAIRED:		0			
CONVERS	LON:	0			
DEEPENIN	NGS:	2			
NEW CONSTRU	JCT:	25			
COMMUNITY	USE:	0			
DOMESTIC	USE:	18			
INDUSTRIAL	USE:	0			
INJECTION	USE:	0			
IRRIGATION	USE:	12			
THERMAL	USE:	0			
LIVESTOCK	USE:	1			
د	*****	*****	*****	*****	* * * * * * * *

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 16439

\$RECNO 1	G	LICATION 14055	G	12898	CLAIM	0	LOC-QQ 1.00S13.00E12NENW	
1	G	6425	G	6035		0	1.00S13.00E12NENW	
1	G	8186	G	7599		0		IS
2	G	8453	G	7598		0	1.00S14.00E17NENW	IR
2	S	70108	S	50845		0	1.00S14.00E17NENW	IR
2	G	16439		0		0	1.00S14.00E17NENW	IR
2	G	16439		0		0	1.00S14.00E17NENW	
2 3 3	G	16439		0		0	1.00S14.00E17NENW	AG
3	G	16439		0		0	1.00S14.00E18SWNE	IR
3	G	16439		0		0	1.00S14.00E18SWNE	
3	G	16439		0		0	1.00S14.00E18SWNE	AG
4	G	16439		0		0	1.00S14.00E18SENE	IR
4	G	16439		0		0	1.00S14.00E18SENE	
4	G	16439		0		0	1.00S14.00E18SENE	AG
4	G	16439		0		0	1.00S14.00E18SENE	IR
4	G	16439		0		0	1.00S14.00E18SENE	AG
4	G	16439		0		0		AG
5	G	16439		0		0	1.00S14.00E18SENW	IR
5	G	16439		0		0	1.00S14.00E18SENW	
5	G	16439		0		0	1.00S14.00E18SENW	AG
6	G	16439		0		0	1.00S14.00E18NWSW	IR
6	G	16439		0		0	1.00S14.00E18NWSW	
6	G	16439		0		0	1.00S14.00E18NWSW	AG
7	G	9906	G	9511		0	1.00S14.00E16NESE	IR
8	G	14328	G	13258		0		FW
8	G	14328	G	13258		0	1.00S14.00E19SENE	IR
8	G	14328	G	13258		0	1.00S14.00E19SENE	
8	G	10890	G	10041		0	1.00S14.00E19SENE	IC
8	R	75500		0		0		FW
8	R	80834	R	11941		0	1.00S14.00E19SENE	FI
8	R	80834	R	11941		0	1.00S14.00E19SENE	RC
8	R	80834	R	11941		0	1.00S14.00E19SENE	WI
8	R	80834	R	11941		0	1.00S14.00E19SENE	FI
8	R	80834	R	11941		0	1.00S14.00E19SENE	RC
8	R	80834	R	11941		0	1.00S14.00E19SENE	WI
9	G	9476	G	8835		0	1.00S14.00E19SESW	IS

CONDITIONED WELLS WITHIN 5 MILES OF APPLICATION G 16439

ŞRECNO	APP	LICATION	PE	RMIT	LOC-QQ	CONDITION-CODE	
1	G	11483	G	10615	1.00S13.00E32SESE		
1	G	12273	G	11691	1.00S13.00E32SESE	4GG	

APPLICATION G 16439 FALLS WITHIN THESE QUAD(S)

DUFUR EAST

The following OWRD Groundwater Management Areas are within the map extent:

\$RECNO	NAME1	NAME2	SUB-AREA	STATUS
1	THE DALLES			CRIT
2	THE DALLES	THREEMILE RESERVOIR		CRIT
	******	* * * * * * * * * * * * * * * * * * * *		