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Name _ William & Linda Wilson G-18131						Date 8-2145	Amount	Receipt No.
By P.O. Box 505 Stanfield, OR 97875	Certificate No.					6-27-16	450.00	120304
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HS 8/27/2015

#### STATE OF OREGON WATER RESOURCES DEPARTMENT

RECEIPT # 120715

MARTEN LAW

725 Summer St. N.E. Ste. A SALEM, OR 97301-4172

# INVOICE #\_

		(503) 986-0900 /	(503) 986-0904 (fax	)	
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#### **West Extension Irrigation District**

P. O. Box 100; Irrigon, OR 97844-0100 541-922-3814 (ph) 541-922-9775 (fax) bbridge@oregontrail.net

February 8, 2016

Barbara Park Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, OR 97301

Re: Comments on IR for Groundwater Permit Application G-18131

Dear Ms. Park;

Linda and William Wilson filed Application G-18131 (the Application) for the use of up to 0.037 cubic feet per second of groundwater from a well in the Umatilla Basin for irrigation of 3 acres. On January 8, 2016, the Oregon Water Resources Department (OWRD) issued an Initial Review (IR) for the Application, which included favorable initial determinations. West Extension Irrigation District (WEID) is providing the following comments on that IR.

The Application proposes to appropriate water from the alluvial aquifer within Section 6, Township 4 N, Range 29 East. OWRD's groundwater review concluded that the proposed use of groundwater would not have the potential for substantial interference (PSI) with surface water because the well is not located with one mile of a perennial surface water source. However, it is well documented that groundwater from the alluvial aquifer at the proposed point of appropriation flows toward and discharges into the Umatilla River above WEID's Threemile Falls diversion. WEID has senior water rights that are routinely not met and the appropriation of groundwater under Application G-18131 will exacerbate the impairment of WEID's senior water rights.

Since 2006, WEID has been providing information to OWRD demonstrating that groundwater use is adversely impacting WEID's senior water rights. OWRD's Division 9 rules authorize the agency to consider cumulative adverse impacts from groundwater use on surface water (including impacts from wells beyond a mile from surface water) when evaluating PSI.

Soon after the IR for Application G-18131 was issued, WEID received a communication from the Department that it was working on strategies to address WEID's concerns about impacts on river flow from groundwater development. Once again, I urge OWRD to consider the cumulative impacts to senior water users on the Umatilla River when evaluating groundwater applications in this area. The use of groundwater proposed by Application G-18131 will reduce the amount of water available to WEID's senior surface water rights and should be denied.

Thank you for your consideration and I look forward to your response.

Sincerely,

Bev Bridgewater

Manager, West Extension Irrigation District

Ber Bridgewater

CC: Doug Woodcock, Deputy Director
Mike Ladd, Region Manager, District 5
Greg Silbernagel, District 5 Watermaster
Adam Sussman, GSI
Douglas MacDougal, Attorney

## WASLEY LAW OFFICE, P.C. 105 FIR STREET, SUITE 204, LA GRANDE, OR 97850

Philip M. Wasley Aubrey M. Mijares, Legal Assistant

November 30, 2016

Patricia McCarty
Water Resources Department
Protest Program Coordinator
North Mall Office Building
725 Summer Street NE, Suite A
Salem, Oregon 97301

VIA E-MAIL: particia.e.mccarty@wrd.state.or.us AND FIRST CLASS MAIL

Telephone: 541-962-7327

Facsimile: 541-962-0737

Re: Water Rights of William and Linda Wilson Application G-18131

Dear Ms. McCarty:

Please be advised that I represent William and Linda Wilson, the applicants in the above-referenced application.

You may direct your correspondence regarding this application to my office.

Thank you for your attention to this matter.

Sincerely,

Philip Wasley

PMW/amm

cc: Client (via e-mail only)

Daniel L. Timmons (via first class mail only)

DEC 0 5 2016

SALEM, OR

SALEM, OR

#### **MCCARTY Patricia E**

From: MCCARTY Patricia E

Sent: Monday, October 31, 2016 4:18 PM

To: 'Linda Wilson'

Subject: RE: Groundwater app. G18131,

Ms. Wilson,

Thank you for your response. You will certainly get a copy of the referral to the Office of Administrative Hearings and will be fully informed at every step as that goes along. Your direct participation will be required. I will be happy to answer any questions in the meantime, and certainly as we get moving toward the hearing. If you choose to engage an attorney to represent you in the hearing, it is best to get them working on your behalf well in advance. They will need to become familiar with the District's argument and the State's position and will need to understand your particular request and how it fits in with the overall groundwater – surface water interactions in the basin. Just have them contact me at any time.

Sincerely,
Patricia McCarty
Protest Program Coordinator
Oregon Water Resources Department
(503) 986-0820

From: Linda Wilson [mailto:billandlinda78@gmail.com]

Sent: Monday, October 31, 2016 1:38 PM

To: MCCARTY Patricia E

Subject: Fwd: Groundwater app. G18131,

Ms. Mccarty

At this point we feel we must let the court hear this case, and I want to request to be notified of the dates of the hearing and request that the hearing be moved to Hermiston Or.

Thank you Pat for all your help and I will be looking forward to the hearing from you or the courts in this matter.

#### Sincerely

Linda Wilson

----- Forwarded message -----

From: MCCARTY Patricia E < patricia.e.mccarty@state.or.us>

Date: Tue, Oct 18, 2016 at 4:00 PM Subject: RE: Groundwater app. G18131,

To: Linda Wilson <br/>
billandlinda78@gmail.com>

Dear Ms. Wilson,

I am attaching West Extension's response to your request for a reduction in acreage. Unfortunately, the district has declined to withdraw the protest. At this point you have a couple of options open to you. If you can get by with irrigating ½ acre, use of groundwater for non-commercial lawn and/or garden is exempt from the requirement to get a

permit. If you choose to go this route, you can withdraw your application by telling me in writing that you withdraw it. The agency would then issue an order that you withdrew the application, and you would be done. If you want to pursue a permit for 1 acre (or your original request), and there is no settlement with West Extension, most likely OWRD will send the application and protest to the Office of Administrative Hearings and an administrative law judge would hold a hearing on the issues raised in the protest. The timeline for this process would begin in the next few months, and a hearing would probably be scheduled sometime in the spring. After the hearing, the judge will issue a proposed order, and then OWRD will issue a final order on your application.

If you have questions, let me know and I'll do my best to answer them. If you choose to go forward with your application, you'll get a copy of the referral to Administrative Hearings.

Sincerely,

Patricia McCarty

Protest Program Coordinator

Oregon Water Resources Department

(503) 986-0820

From: Linda Wilson [mailto:billandlinda78@gmail.com]

Sent: Wednesday, October 05, 2016 10:38 AM

To: MCCARTY Patricia E

Subject: Groundwater app. G18131,

Here is the info we talked about in our phone conversation on . Oct 3.

These are the measurements taken by me from lot 1300,

56,670 sq. ft. needed for water including lawn and excluding the allotted one half acre.

One acre =43,560 The remainder is 8 tenths of one acre needed for water.

Given the accuracy of my measurements I am asking for 1 full acre of water rite.

And I will exclude lot 1200 from my application.

Thank you for your consideration of this matter I will be waiting for your reply.

Sincerely,

Linda Wilson

----- Forwarded message -----

From: "Daniel L. Timmons" < dtimmons@martenlaw.com>

To: "patricia.e.mccarty@state.or.us" <patricia.e.mccarty@state.or.us>

Cc:

Date: Wed, 12 Oct 2016 18:01:32 +0000

Subject: RE: West Extension Irrigation District Protest G-18131

Ms. McCarty,

Thank you for bringing this to our attention. We have considered the reduction in the Wilsons' request; however, this change does not alter West Extension Irrigation District's fundamental concerns regarding

the cumulative impact of existing and new wells on the Umatilla River. Since we are unable to conclude that the modified request will have no cumulative impact on the river, and the Department still has not adequately evaluated potential cumulative impacts, we will maintain our protest.

Please let me know if you have any questions. Thank you.

Sincerely,

**Daniel Timmons** 

Daniel L. Timmons

Attorney

**D** - 503 . 241 . 2644 **T** - 503 . 243 . 2200

E - dtimmons@martenlaw.com

martenlaw.com 1001 SW Fifth Ave, Suite 2150 Portland, OR 97204

MARTEN LAW

From: MCCARTY Patricia E [mailto:patricia.e.mccarty@state.or.us]

Sent: Tuesday, October 11, 2016 10:15 AM

To: Daniel L. Timmons

Subject: West Extension Irrigation District Protest G-18131

Dear Mr. Timmons,

Linda Wilson, the applicant who originally requested 0.037 cfs to irrigate 3.0 acres, recently revised the requested amount to 0.0125 cfs to irrigate 1.0 acre. Given this modified request, and the resulting reduction of the impact to the Umatilla River, is West Extension Irrigation District willing to withdraw or settle its protest? I will relay your response to the Wilsons.

Sincerely,

Patricia McCarty

Protest Program Coordinator

Oregon Water Resources Department

From: MCCARTY Patricia E

Sent: Monday, September 12, 2016 9:15 AM

To: 'Daniel L. Timmons'

Subject: RE: Status Check: West Extension Irrigation District Protests (G-18115, G-18131)

Mr. Timmons.

WRD and the applicants are in discussion as to the disposition of the applications. No date for referral has been determined. You will receive notification when WRD is preparing for referral.

Sincerely,

Patricia McCarty

Protest Program Coordinator

Oregon Water Resources Department

(503) 986-0820

From: Daniel L. Timmons [mailto:dtimmons@martenlaw.com]

Sent: Thursday, September 08, 2016 3:21 PM

To: 'MCCARTY Patricia E'

Subject: Status Check: West Extension Irrigation District Protests (G-18115, G-18131)

Ms. McCarty,

As you know, West Extension Irrigation District has two outstanding protests of proposed groundwater permits in the Umatilla Basin (G-18115, G-18131). I am writing to inquire as to the status of the Department's review of these protests and when the Department is planning to either schedule a contested case hearing or issue a final order. Under OAR 690-310-0170, the Department has 60 days from the expiration of the protest period to make this determination. For West Extension's protest of G-18115 (Sanguino), that deadline passed on May 17, 2016. For West Extension's protest of G-18131 (Wilson), the Department has until September 27, 2016 to decide whether or not to refer the matter to a contested case.

West Extension is deeply concerned about the cumulative impact of groundwater development on surface flows in the Umatilla River. Given the timelines imposed by the rules, West Extension looks forward to the Department's expeditious determination of whether or not to refer these matters to contested cases.

Sincerely,

**Daniel Timmons** 

#### Daniel L. Timmons

Attorney

D - 503 . 241 . 2644

T - 503 . 243 . 2200

E - dtimmons@martenlaw.com

martenlaw.com 1001 SW Fifth Ave, Suite 2150 Portland, OR 97204

MARTEN LAW

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Please consider the environment before printing this e-mail.



#### Water Resources Department

North Mall Office Building 725 Summer St NE, Suite A Salem, OR 97301 Phone (503) 986-0900 Fax (503) 986-0904 www.wrd.state.or.us

July 29, 2016

William & Linda Wilson P.O. Box 505 Stanfield, OR 97875

Re: Receipt of protest on Application G-18131

Dear William and Linda Wilson,

The Department received a timely filed protest to the Proposed Final Order on G-18131 on July 28, 2016. The protest indicates a copy was served to your address. A Department rule requires that a copy also be provided to you, and it is enclosed. I will review the protest and contact you regarding the concerns raised.

tile copy

The Department has 60 days to determine whether to issue a final order dismissing the protest or referring the protest to a contested case hearing in front of an administrative law judge. I will discuss these options with you when we speak. In the meantime, if you have any questions at all, please contact me directly at the number or email below.

Sincerely,

Patricia McCarty

Protest Program Coordinator Water Right Services Division

503-986-0820

patricia.e.mccarty@wrd.state.or.us

Patricia Mc Carty



#### Water Resources Department

North Mall Office Building 725 Summer St NE, Suite A Salem, OR 97301 Phone (503) 986-0900 Fax (503) 986-0904 www.wrd.state.or.us

July 29, 2016

file copy mailed of-29-16

Daniel Timmons Douglas W. MacDougal Martin Law PLLC 1001 SW Fifth Avenue, Suite 2150 Portland, OR 97217

Re: Protest fee receipt on Application G-18131

Dear Mr. Timmons,

Enclosed is receipt #120715 for check #4121 in the amount of \$700.00 in payment of the fee for the protest to the Proposed Final Order on Application G-18131 in the name of William & Linda Wilson.

I will review the protest and contact you regarding possible settlement discussions with the applicant and Department. The Director has the option to issue a final order within 60 days or refer the protest to a contested case hearing. The Department will notify you of its decision as soon as possible.

Please contact me directly with any questions.

Patricia Mc Carry

Sincerely,

Patricia McCarty

Protest Program Coordinator

Water Right Services Division

503-986-0820

patricia.e.mccarty@wrd.state.or.us



July 27, 2016

Patricia McCarty Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, OR 97301

In the Matter of Groundwater Permit Application G-18131 Re:

Comments and Protest of West Extension Irrigation District

Name of Protester:

West Extension Irrigation District (WEID)

Address:

P.O. Box 100

Irrigon, Oregon 97844 Telephone:

(544) 922-3814

Protester's Attorneys:

**Daniel Timmons** 

Douglas W. MacDougal

Marten Law PLLC

1001 SW Fifth Avenue, Suite 2150

Portland, OR 97217 (503) 243-2200

Dear Ms. McCarty:

William and Linda Wilson filed Application G-18131 (the Application) for the use of up to 0.037 cubic feet per second (cfs) of groundwater from an existing well in the Umatilla Basin for irrigation of 3 acres. On January 8, 2016, the Oregon Water Resources Department (OWRD) issued an Initial Review for the Application, which included favorable initial determinations. On February 8, 2016, WEID Manager Bev Bridgewater submitted a comment letter describing the potential impact of G-18131 on WEID's senior surface water rights and requesting OWRD's denial of the Application. On June 14, 2016, OWRD issued a Proposed Final Order (PFO) recommending issuance of the draft permit without changing any of its initial findings.

These comments and formal protest of the Application are filed in accordance with ORS 537.621(8) and OAR 690-310-0160. RECEIVED BY OWRD

JUL 28 2016

SALEM, OR

#### I. Introduction

The Application proposes to appropriate water from the alluvial aquifer within Section 6, Township 4 N, Range 29 East. To approve the Application, OWRD must determine that the new appropriation will not cause injury to existing water rights, including surface water rights. ORS 537.153 – .160. OWRD erred in finding that no injury to existing rights will occur because it ignored the fact the cumulative impact of the new appropriation and existing groundwater pumping has the potential for substantial interference with flows in the Umatilla River. In fact, groundwater pumping in the basin has already had an actual and substantial effect on Umatilla River flows and WEID's senior rights.

OWRD's groundwater review concluded that the proposed use of groundwater would not have the potential for substantial interference (PSI) with surface water because the well is not located within one mile of a perennial surface water source. This conclusion, however, cannot be sustained. According to much sound hydrologic evidence, despite being more than a mile from the Umatilla River, the proposed appropriation will negatively affect flows in that river.

As has been well-established by various scientific reports, any well located within the shallow alluvium in the area contributing groundwater flow towards the Umatilla River – even in areas beyond one mile from the river – is hydraulically connected to the Umatilla River. Further, it is well-documented that groundwater from the alluvial aquifer at the proposed point of appropriation flows toward and discharges into the Umatilla River above WEID's Threemile Falls diversion. Technical staff from the Oregon Water Resources Department have recognized this groundwater-surface water connectivity for more than a decade. As a 2003 report from OWRD's Groundwater Section describes: "In the Umatilla Basin the alluvial aquifer naturally discharges much of its water where the valley is constricted north of Butter Creek (Figure 31)." Oregon Water Resources Department Groundwater Section, Ground Water Supplies in the Umatilla Basin 26 (April 3, 2003, rev. Nov. 2, 2004) (the OWRD Report, attached as Exhibit 1).

WEID has senior water rights in the Umatilla River that are routinely not met, in large part due to cumulative impacts of groundwater wells capturing return flows that would otherwise flow to the Umatilla River. The appropriation of groundwater under Application G-18131 will contribute to these cumulative impacts and further exacerbate the impairment of WEID's senior water rights.

The history of WEID's concerns and its discussions with OWRD on the issue of substantial groundwater interference with WEID's surface water rights goes back at least a decade. Ten years ago, in March of 2006, John Koreny of HDR presented to OWRD his analysis of "Groundwater Pumping in Umatilla Basin." His presentation, titled Evaluation of West Extension's Umatilla River Water Supply, showed a strong correlation between streamflow declines and groundwater pumping. He also presented these findings to the CTUIR in May of that year. The correlations were based on earlier studies and estimates by others, and one of the recommendations in the presentation was to "Analyze Effects from Groundwater on the Umatilla River."

Following up on that plan, and in cooperation with OWRD's Karl Wozniak, HDR undertook a thorough study of the extent and distribution of wells in the Umatilla Basin, shallow and deep. John Koreny's November 15, 2007 Technical Memo, *Inventory of Groundwater Rights in the Umatilla Basin* (the HDR Report) was forwarded to the department with Bev Bridgewater's letter of February 22, 2008. Her letter summarized some of its key findings. The HDR Report identified a total of about 376 water rights for wells in the unconfined aquifer and shallow basalt aquifer in the basin, drawing an estimated 160 cfs of water during the irrigation season, totaling some 60,000 acre-feet of consumptive use. Based on a basic understanding of groundwater flow in the basin and "the scientific principles of the depletion of flow on hydraulically-connected river reaches by groundwater pumping," the HDR Report plainly stated that "the consumptive use of ground water that would have flowed into the Umatilla River by wells pumping from the unconfined aquifer reduces the flow in the river." (emphasis added). The letter from Ms. Bridgewater is enclosed as Exhibit 2, and the HDR Report is enclosed as Exhibit 3.

Then, seven years ago, Douglas MacDougal, counsel for WEID, wrote to OWRD about WEID's concern that widespread groundwater withdrawals from shallow, alluvial wells close to the Umatilla River were not being properly and conjunctively managed. The focus of the August 21, 2009 letter and its accompanying Technical Memorandum from GSI Water Solutions, Inc. (the GSI Memorandum) was on management of wells within a mile of the river. The letter from Mr. MacDougal is enclosed for your reference as Exhibit 4, and the GSI Memorandum is enclosed as Exhibit 5.

The GSI Memorandum focused primarily on wells within 1 mile of the Umatilla River, as it was particularly concerned with OWRD regulation of existing wells under Division 9 of Chapter 690 of the Oregon Administrative Rules. However, the conclusions of the memorandum are relevant to the issue of hydraulic connectivity of wells beyond one mile:

[T]hese results indicate that groundwater pumping is likely having a larger effect on surface water flows of the Umatilla River than previously thought. As a result, there are probably many additional groundwater rights beyond those originally identified that have the potential for substantial interference with the Umatilla River, and should be conjunctively managed in favor of WEID's senior Umatilla River water rights.

#### GSI Memorandum, at 4.

These studies establish that groundwater pumping in the Umatilla Basin is having a substantial cumulative impact on flows in the Umatilla River. Although further study may be helpful in further quantifying the exact magnitude of that impact, existing evidence is sufficient to establish with considerable certainty that all wells in the basin's shallow alluvium have at least the potential for substantial interference with senior surface water rights.

The department's response following WEID's 2009 letter was generally constructive and helpful. But we also highlighted a more fundamental concern about cumulative impacts

which has yet to be properly addressed by the department. The cumulative impacts of the myriad small wells, both near and far from the river, collectively and dramatically reduce the amount of water available to senior water right holders on the Umatilla River. Most of these shallow wells now fall below the department's regulatory radar because they are viewed individually and not cumulatively. OWRD regards each well myopically as if the well has no relationship to the other wells around it. But the impacts from all of the wells approved by OWRD accumulate over time causing substantial effects on flows in the river.

Despite the wealth of information demonstrating the hydraulic connectivity of the alluvial aquifer and the Umatilla River and the cumulative impacts of well pumping on river flows, OWRD continues to issue new well permits without consideration of cumulative impacts. For example, on February 2, 2016, OWRD issued a PFO for Application G-18115, proposing to award groundwater rights to Gerardo and Magda Sanguino despite WEID's comment letter which raised concerns regarding the substantial interference with WEID's senior water rights. On March 18, 2016, WEID filed a formal protest of the PFO for G-18115, which is still pending. This groundwater application is no different.

OWRD has failed to adequately address cumulative impacts of groundwater pumping on WEID's surface water rights, and the problem continues to worsen with the issuance of each new groundwater permit. Accordingly, OWRD has left WEID with no choice but to protest the issuance of this PFO to protect its rights from further injury.

II. Specific Grounds for Protest

A. Statement of WEID's Interest

WEID is the holder of senior surface water rights in the Umatilla River. Water Right

Certificates 79924; 79925; 79933; 79928; 79930; 79927; 79929; 87799. WEID also has an interest in the certificated right to use of "return flow from the irrigation systems along the Umatilla River using water stored in McKay Reservoir." Certificate 87872 (held in name of Bureau of Reclamation for WEID's beneficial use).

#### B. Impairment of WEID's Interest

As noted above, since 2006, WEID has been providing information to OWRD demonstrating that groundwater use in the basin is adversely impacting WEID's senior water rights. The OWRD Report, HDR Report, and GSI Memorandum - described above and attached hereto - among other studies, document the indisputable hydraulic connection between the Umatilla River and the shallow, alluvial aquifer currently proposed for further groundwater development. The use of groundwater proposed by Application G-18131 will further reduce the amount of water available to WEID's senior surface water rights, causing injury to WEID's legal interests and its practical ability to deliver water reliably and cost-effectively to its patrons.

Where there is hydraulic connection, OWRD's Division 9 rules require the agency to consider cumulative adverse impacts from groundwater use on surface water (including impacts from wells beyond a mile from surface water) when evaluating PSI. OAR 690-009-0040(5)(e). In evaluating the Application, however, OWRD categorically failed to

consider potential impacts of the proposed groundwater pumping on surface water sources more than one mile away and failed to consider the cumulative impacts of groundwater pumping throughout the basin. In issuing the PFO, OWRD failed to adequately protect WEID's senior surface water rights, as required by statute and OWRD regulations.

#### C. Errors in the Proposed Final Order

1. The PFO contains a logical fallacy because it assumes that if the presumption of PSI is not met, then there is no PSI.

OWRD's Initial Review concluded that the proposed use of groundwater would not have the potential for substantial interference (PSI) with surface water because the well is not located with one mile of a perennial surface water source. OWRD rules, however, do not provide that groundwater pumping more than one mile from a perennial stream is deemed to have no substantial interference with groundwater. To the contrary, while the rules provide certain presumptions regarding substantial interference where wells are either located within ¼ mile or one mile of a surface water source, the rules also specifically state that "any wells," regardless of distance from a surface water source, which produce water from an aquifer "hydraulically connected to the surface water source may be determined by the Department to have the potential to cause substantial interference with the surface water source." OAR 690-009-0040(5) (emphasis added). The consensus of the scientific community – including OWRD groundwater staff – is that wells beyond one mile may be hydraulically connected to a surface water source. This is the case in the Umatilla River basin.

The PFO adopted the erroneous logic from the department's Public Interest Review and Initial Review and failed to adequately explain OWRD's reasoning for concluding that "that the proposed groundwater use will not have the potential for substantial interference with surface water." The entirely of the department's "analysis" from the PFO is copied below:

The Department determined, consistent with OAR 690-009-0040(4), that the proposed groundwater use will not have the potential for substantial interference with surface water.

In making this determination, the Department considered whether:

- A. There is a hydraulic connection from the proposed well(s) to any surface water sources.
- B. The point of appropriation is a horizontal distance less than one-fourth mile from the surface water source;
- C. The rate of appropriation is greater than five cubic feet per second, if the point of appropriation is a horizontal distance less than one mile from the surface water source;

RECEIVED BY OWND

RECEIVED BY OWRD

D. The rate of appropriation is greater than one percent of the pertinent adopted minimum perennial streamflow or instream water right with a senior priority date, if one is applicable, or of the discharge that is equaled or exceeded 80 percent of time, as determined or estimated by the Department, and if the point of appropriation is a horizontal distance less than one mile from the surface water source;

E. The groundwater appropriation, if continued for a period of 30 days. would result in stream depletion greater than 25 percent of the rate of appropriation, if the point of appropriation is a horizontal distance less than one mile from the surface water source.

According to the Department's rules, the potential for substantial interference is assumed if A and either B or C or D or E are met. For this application, the Department determined that there is no potential for substantial interference, because either A is not met, or B, C, D or E are not met, or both.

#### (emphasis added).

The PFO is correct that PSI is presumed where there is a hydraulic connection between a well and a surface water supply and any one of the B - E conditions are also met. However, the analysis is wrong in concluding that just because conditions B – E may not be met, "there is no potential for substantial interference." Just because the presumption of PSI is not established does not automatically mean that there is no PSI. To the contrary, the fallacious logic of the PFO ignores the possibility - recognized in OWRD regulations and evidenced by the current Application – that wells outside of one mile from a surface water source may have a hydraulic connection to that source and the potential for substantial interference with surface water. OAR 690-009-0040(5). In fact, OWRD's analysis addressed only OAR 690-009-0040(4) and failed to address the required considerations in OAR 690-009-0040(5). This was in error.

#### 2. OWRD failed to assess the potential for substantial interference.

In evaluating the Application, OWRD completely failed to consider potential impacts on surface water sources located more than one mile from the well. Instead, the department's Public Interest Review noted the sole "basis for aquifer hydraulic connection evaluation" to be that there are "no perennial streams within 1 mile of the applicant's well." Yet OWRD regulations specifically indicate that hydraulic connectivity and a potential for substantial interference may be established for "any wells," including those located more than one mile from a surface water source. OAR 690-009-0040(5).

Further, Part C4a. of the department's Public Interest Review form specifically provides for OWRD evaluation of the "[e]stimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate." However, OWRD's reviewer, J. Hackett, failed to complete this analysis, leaving this section incomplete.

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OWRD erred in failing to adequately evaluate the potential impacts of the Application on surface water flows in the Umatilla River.

3. OWRD failed to assess whether cumulative impacts from existing and proposed groundwater development may have the potential for substantial interference.

Under OAR 690-310-0150(2), the PFO is required to "cite findings of fact and conclusions of law and shall include . . . an assessment of whether the proposed use would result in injury to existing water rights." In adopting the PFO, however, OWRD completely ignored the potential for injury to existing water rights as a result of cumulative impacts from the proposed groundwater well operating in conjunction with existing users. The potential for this type of injury is specifically contemplated by OAR 690-009-0040(5)(e). Thus, OWRD failed to adequately assess the potential for injury to WEID's senior surface water rights.

As described above, in issuing the PFO, OWRD did not evaluate whether the newly proposed well, in conjunction with existing groundwater pumping, has the potential for substantial interference with existing surface water rights based on cumulative impacts. This omission was error. Where there is hydraulic connection, OWRD's Division 9 rules require the agency to consider cumulative adverse impacts from groundwater use on surface water (including impacts from wells beyond a mile from surface water) when evaluating PSI. OAR 690-009-0040(5). Particularly where the department has substantial, long-standing evidence of groundwater pumping having cumulative impacts on surface water rights, it is arbitrary and capricious for the department to simply ignore the possibility of cumulative impacts described by OAR 690-009-0040(5).

#### 4. OWRD's findings are inadequate.

OWRD's "Groundwater Findings Under OAR 690-09" simply restate the Department's interpretation of that rule, but do not include any actual "findings" based on the application of the rule to the facts of the current groundwater application. The Department identifies a list of factors which it states that it "considered," but the PFO does not explain or provide any findings regarding how the various factors affected the Department's conclusion. Instead, the PFO simply indicates that "the Department determined that there is no potential for substantial interference, because either A is not met, or B, C, D, or E are not met, or both." From this cursory restatement of the rule, however, it is impossible to determine what exactly the Department found regarding any of these five separate factors or which of these factors the Department found to be dispositive on the issue of the potential for substantial interference with surface waters. For example, the Department notes that it "considered whether . . . [t]here is a hydraulic connection from the proposed well(s) to any surface water sources," but does not indicate whether the Department found there to be such a hydraulic connection or not. As stated above, scientific evidence previously provided to the Department shows strong hydraulic connections between wells at many varying distances from the Umatilla River. The Department's findings are inadequate.

5. The conditions in the PFO will not protect existing users from injury.

OWRD's response to WEID's substantive comments regarding the Initial Review was completely inadequate. The entirety of the department's PFO response to WEID's comment letter is as follows: "Within 30 days of the Department's public notice, written comments were received from Bev Bridgewater, Manager, West Extension Irrigation District, expressing concern for impact on senior water rights. The Department considered comments received, however its findings remain unchanged." The PFO goes on to find that "Groundwater will likely be available within the capacity of the resource, and if properly conditioned, the proposed use of groundwater will avoid injury to existing groundwater rights," ultimately concluding that "[t]he proposed use will not injure other water rights." However, while the conditions imposed on the PFO may address potential impacts on neighboring groundwater wells, they do not deal with substantial interference with surface water sources, despite the well-established hydraulic connection between the alluvial aquifer approved for development by the PFO and the Umatilla River. The conditions in the PFO are inadequate to protect existing surface water users from injury since OWRD does not in fact regulate groundwater wells to meet surface water calls where such wells are located more than one mile from the deficient water source.

6. OWRD failed to assess the potential for interception of return flows to which WEID is entitled.

Under Certificate 87872, WEID has the right to capture return flows of water originally stored in McKay Reservoir and used on federal project lands above the WEID rediversion point on the Umatilla River. The appropriation of groundwater under G-18131 has the potential to intercept return flows from federal project lands which would otherwise return to the Umatilla River above WEID's diversion point, thereby depriving WEID of such return flows to which it is entitled. Despite WEID's valid certificated water right for such return flows with a senior priority date of July 1, 1924, OWRD has yet to develop an enforceable protocol enabling WEID to protect its rights through a catl on junior users intercepting such return flows. In the absence of such an enforceable protocol, the issuance of new groundwater rights with the potential to intercept return flows causes further injury to WEID and compromises the district's ability to utilize the return flows to which it is entitled under its senior certificated water right. OWRD erre in failing to assess the potential for appropriation under G-18131 to intercept return flows to which WEID is entitled. Such appropriation of return flows will reduce the amount of Umatilla River flows available to WEID causing actual injury to the district's ability to reliably deliver water to its patrons.

> OWRD erred in presuming that the Application will ensure the preservation of the public welfare, safety and health because the proposed use will injure other water rights.

Under OAR 690-310-0130, OWRD presumes that groundwater development is in the public interest where certain conditions are met. In this case, OWRD found the presumption to be established; however, OWRD erred in concluding that "[t]he proposed use will not injure other water rights." This conclusion was based on the combination of errors identified above, including the department's failure to consider (1) the potential for cumulative impacts to cause the potential for substantial interference with existing surface water rights and (2) the potential interception of return flows to which WEID is entitled. Accordingly, OWRD erred in finding the presumption to be met. The

Application is not in the public interest because it will cause injury to holders of senior water rights in the Umatilla River, including WEID.

#### III. Conclusion

For the reasons stated in this protest letter, the Application has the potential for substantial interference with surface water rights held by WEID. Accordingly, approval of the Application is not in the public interest. We respectfully request that OWRD withdraw the PFO and issue a new PFO denying the Application.

Sincerely,

Daniel L. Timmons

Ald.Ti

Attorney for West Extension Irrigation District

Cc: Bev Bridgewater, West Extension Irrigation District

Enclosures

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#### CERTIFICATE OF SERVICE

I hereby certify that on July 27, 2016, I served a true and correct copy of this *In the Matter of Groundwater Permit Application G-18131*, Comments and Protest of West Extension Irrigation District on the applicant at the address listed below, by First Class U.S. Mail:

William L. and Linda Wilson PO Box 505 Stanfield, OR 97875

DATED: July 27, 2016

Attorney for Protestant West Extension Irrigation District

Daniel L. Timmons, OSB No. 124798 Marten Law PLLC 1001 SW Fifth Avenue, Suite 1500 Portland, OR 97219 (503) 241-2644

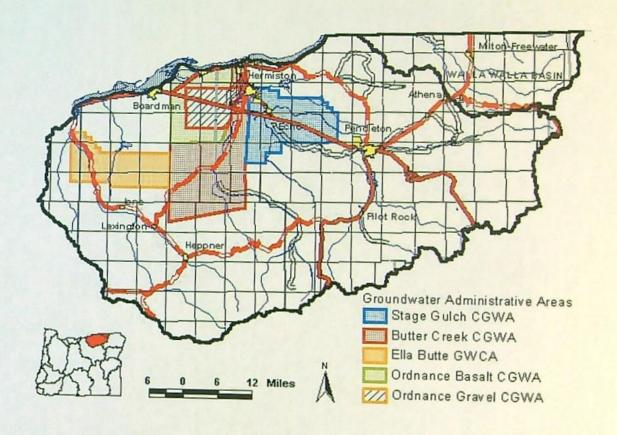
#### Exhibit 1

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# Ground Water Supplies in the Umatilla Basin



# presented by Oregon Water Resources Department Ground Water Section

April 3, 2003 Pendleton, Oregon

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revised 11/2/2004

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### GROUND WATER SUPPLIES IN THE UMATILLA BASIN

#### Introduction

Virtually every economic venture in the Umatilla Basin relies on a dependable water supply. Water is essential to farming and dairy operation, power generation, food processing and a variety of other industrial and commercial endeavors. Water is also essential for municipal expansion as well as rural residential development.

New appropriations of water from surface water sources in the Umatilla Basin are restricted or limited by available supplies or endangered and threatened species concerns. New water supplies from existing storage reservoirs and artificial recharge projects are also not currently available. Consequently, ground water is the logical alternative for meeting new water supply demands.

Oregon ground water statutes require that the Water Resources Commission and Water Resources Department manage ground water as a renewable resource. Overdraft, excessive water level declines, unstable water levels, and substantial interference with senior rights are to be prevented. Continued economic growth reliant on ground water supplies is unrealistic given these water management objectives. If the Basin is to continue growing, some very difficult decisions will have to be made relative to water resource management in the Basin. To be effective, those decisions need to be based on a thorough understanding of the conjoined ground water/ surface water system. A comprehensive Basin—wide ground water study is being planned to provide the necessary understanding.

This report provides a synopsis of our current understanding of ground water resources in areas of the Umatilla Basin. Appendices to the report provide background information on ground water concepts (*Appendix A*) and the geology of the Umatilla Basin (*Appendix B*).

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# CURRENT STATUS OF GROUND WATER SUPPLIES IN THE BASIN

Since the late 1960s, it has been apparent that development and management of ground water resources in the Umatilla Basin would require careful attention. Overdraft, unstable water levels, excessive declines, and other ground water problems exist or are developing in the basin.

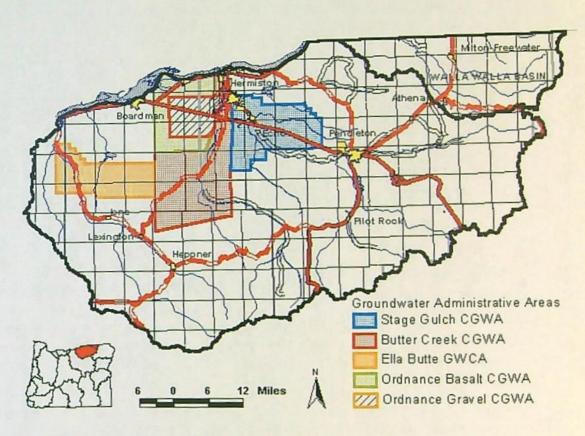


Figure 1 - Umatilla Basin map

In the mid 1970s, the Water Resources Commission began imposing control measures in the basin to correct overdraft and excessive declines. To that end, the Water Resources Commission created the Ordnance, Butter Creek and Stage Gulch Critical Ground Water Areas and restrictively classified ground waters within the basalt in the Ella Butte area (Figure 1). These administrative actions, affecting an area of approximately 800 square miles, severely limit future ground water development and significantly reduce ground water use in much of the area. As a result of these administrative actions, the rate of water level decline has been significantly reduced in much of the controlled area and arrested in some parts. Within these areas, new permits to appropriate ground water are not issued.

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Ground water overdraft continues to be a significant issue in the Umatilla Basin. Declines in ground water levels are evident in areas outside of the controlled areas and, to some extent, within the controlled areas. These declines are focused in and around the cities of Boardman, Adams, Athena, and Pendleton. In addition, declines persist within the Ella Butte and Ordnance areas and within parts of the Stage Gulch and Butter Creek Critical areas. This ground water instability is likely to be an indicator of overdraft. A ground water investigation conducted in the early 1980s suggested that ground water throughout the basin was already overdrafted at that time. This would suggest that some of the more recent economic development dependent upon ground water is in jeopardy and that new ground water-dependent economic development is unwise.

In addition to overdraft concerns, interference between ground water users

is a significant issue in the Umatilla Basin.
Users of the ground water resource are not isolated one from another. As one water user pumps water from the aquifer, water levels decline in response. Those declines cause lower water levels for other ground water appropriators using the same source. This

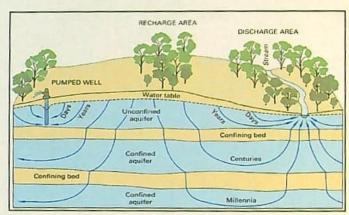


Figure 2 - Ground water flow

phenomenon is called interference. Interference causes increased pumping lifts and increased costs for other users of the resource. In the more severe cases of interference, some users may not be able to pump enough water to satisfy their water rights.

Just as ground water users are not isolated from each other, the ground water resource itself is not typically an isolated resource. Most, if not all, ground water in the state receives some amount of recharge annually from rainfall and snowmelt. Ground water then flows through the aquifer system to a discharge area where it leaves the flow system, usually to become surface water, providing base flow to streams long after the snows have melted off the highlands (Figure 2). Where surface water is dependent upon ground water discharge, pumping ground water for beneficial uses may reduce discharge to surface water and, therefore, reduce surface water supplies. This may occur to the detriment of surface water rights and other surface water values such as fish and aquatic life habitat, aesthetics, pollution abatement and recreation. Interference with surface water supplies and rights as a result of ground water pumping is a significant issue in the Basin.

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#### GROUND WATER RESPONSE TO DEVELOPMENT

Ground water levels are declining in areas throughout the Umatilla Basin, further highlighting the need for a basin-wide, comprehensive understanding of ground water resources. The following sections present our current knowledge of ground water supplies in areas of the Umatilla Basin. An understanding of ground water occurrence and supply problems within the basin will be improved by a brief introduction to ground water concepts which is provided in Appendix A.

### Alluvial Aquifers and Shallow Basalt Aquifers of the Lower Umatilla Basin

A shallow unconfined aquifer occurs in the alluvial sediments of the lower Umatilla Basin. Multiple confined aquifers occur in the underlying basalt flows. The alluvial and shallowest basalt aquifers are the main sources of domestic water for rural residents in the area. The alluvial aquifer is also a major source of municipal water for the cities of Hermiston, Irrigon, and Boardman and an important source of irrigation water in the area between Boardman and Hermiston.

The main source of recharge to the alluvial aquifer comes from leaky canals and ditches. Additional recharge comes from applied irrigation water. In local areas, leakage from reservoirs and streams represents a significant component of recharge. Recharge from precipitation is a relatively small proportion of total recharge.

The principal water-producing zones of the alluvial aquifer in the lower Umatilla Basin occur in deposits of coarse sand and gravel that fill three east- to northeast-trending shallow troughs between Boardman and Cold Springs Reservoir. Well yields in these areas commonly exceed 1000 gallons per minute. However, ground water supplies are limited by the restricted aerial extent of the deposits. In the Ordnance area (discussed later in this report), excessive pumpage from the gravels led to water-level declines that required administrative restrictions on pumping. Water-level declines are unlikely in the gravels in the Boardman area as pumping will be buffered by capture of water from the Columbia River.

Regional flow in the alluvial aquifer is to the northwest with discharge to the Umatilla and Columbia rivers; however, flow directions vary considerably over space and time. The topography of the underlying basalt, seasonal pumping of high-capacity wells, and seasonal recharge from leaky canals are the main factors influencing flow direction. Seasonal reversals of flow are known to occur beneath the southern half of the Umatilla Ordnance Depot and may occur elsewhere.

The Umatilla River is hydraulically connected to the alluvial aquifer between the cities of Echo and Umatilla where the river is in contact with alluvial ECEIVED BY OWRD sediments. At Butter Creek, the river begins to progressively downcut

through the aquifer until it reaches basalt bedrock at Three-Mile Dam. These relationships suggest that natural discharge from the aquifer to the river occurs between Butter Creek and Three-Mile Dam. This is consistent with the known occurrence of natural springs in the lower reaches of the river. However, good estimates of the amount of interchange between the river and the aquifer are lacking.

Outside of the Umatilla lowlands, productive deposits of sand and gravel also occur in the narrow floodplains of the mainstem Umatilla River and some of its larger tributaries. These deposits typically occupy river valleys that are incised into the basalt bedrock. Ground water in these sediments is hydraulically connected to the adjacent streams and withdrawing it interferes with streamflow.

Productive water-bearing zones within Columbia River Basalt flows are generally limited to thin zones of broken or fractured rock at the top or base of individual basalt flows. The dense interiors of flows are relatively impermeable and confine ground water to discrete tabular aquifers. However, the geometry of the shallow basalt aquifers in the lower basin indicates that they are hydraulically connected to the alluvial aquifer, the Umatilla River, and the Columbia River where permeable zones in the basalts are exposed beneath the alluvial aquifer and in the beds of the rivers. As with the alluvial aquifer, pumping water out of these shallowest basalts interferes with stream flows.

#### Ordnance Critical Ground Water Areas

There are two critical ground water areas in the Ordnance area: the Ordnance Gravel Critical Ground Water Area and the Ordnance Basalt Critical Ground Water Area. The Ordnance Basalt Critical Ground Water Area is located west of Hermiston and includes 175 square miles of basalt aquifers near the Umatilla Chemical Depot and Irrigon. It is partially overlapped by the Ordnance Gravel Critical Ground Water Area that includes 82 square miles of alluvial aquifer in the Depot area. The controlling order for both areas was issued in 1976 and prohibits the issuance of new ground water rights. "Exempt uses" are allowed under the order. Exempt uses are smaller uses exempt from the water right permitting requirement and are therefore referred to as "exempt uses." Exempt uses include single or group domestic use up to 15,000 gallons per day, noncommercial irrigation of up to one-half acre, stock watering, and commercial and industrial use up to 5,000 gallons per day.

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The stratigraphy for both areas can be generalized. Alluvial material is present from land surface to an average depth of 50 to 100 feet, attaining a maximum of about 200 feet. These materials vary spatially in thickness and composition but consist of sand, gravel, silt, and clay. These sediments are underlain by lava flows of the Columbia River Basalt Group. These flows are numerous and are not fully penetrated by local wells.

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#### Ordnance Gravel Critical Ground Water Area

The aquifer in the Ordnance Gravel Critical Ground Water Area is unconfined and varies in saturated thickness from 15 to 125 feet. Depths to water are generally less than 100 feet below land surface. Irrigation development began in the 1950's and increased to some

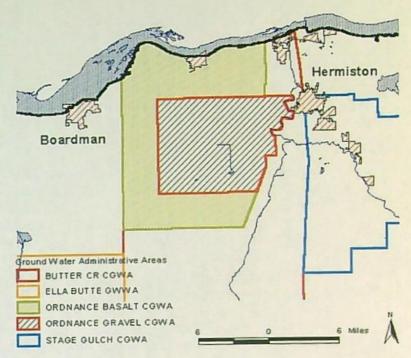
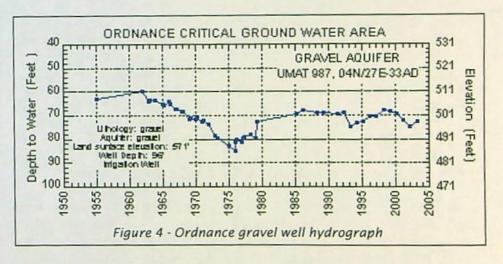


Figure 3 - Ordnance gravel CGWA

45 wells by the early 1970's (*Figure 3*). These diversions resulted in declines in the ground water resource that threatened the continued use of some well as shown in *Figure 4*.



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Although water level declines were only about 20 feet, declines were significant for wells where the aquifer was thin and prompted the administrative action that created the critical area.

The Ordnance Gravel Critical Ground Water Area contains two subareas. During the spring of 1977, several well owners in the Lost Lake/Depot subarea initiated a project to artificially recharge the shallow gravel aquifer south of Ordnance. The project uses an existing canal system, a dedicated

leaky recharge canal, and winter/spring water from the Umatilla River diverted near Echo. Water levels in many gravel wells have responded favorably. Historically, recharge has been at a rate of approximately 6000 acre-feet per year. However, access to water for recharge has been reduced in recent years in response to insufficient flows to meet instream water rights. Recharge amounts for the last four years have been less than 5000 acre-feet per year. This artificial recharge project is essential to stabilize aquifer levels and supplement irrigation supplies.

Currently, water levels in the critical area are fairly stable. Water use under permit remains high, and there is a slow, steady increase in exempt uses. Water levels in the critical area are better than in the mid-1970s prior to recharge project, but have dropped in recent years (*Figure 4*). More recharge or less water use is needed to correct current water level trends.

#### Ordnance Basalt Critical Ground Water Area

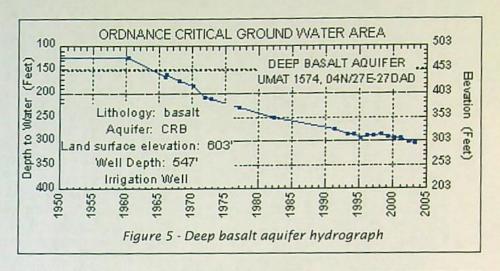
The administrative order for the Ordnance Basalt Critical Ground Water Area defines two basalt aquifers (*Figure 3*). Aquifers less than 400 feet deep are termed the shallow basalt aquifer and those more than 400 feet deep are the deep basalt aquifer. Local development of these ground water resources began in the 1940s at the Umatilla Army Depot (now, Umatilla Chemical Depot). Ground water development continued and peaked near current levels in the 1960s. Use is now largely for irrigation but also includes municipal use by the City of Irrigon and military purposes at the Depot.

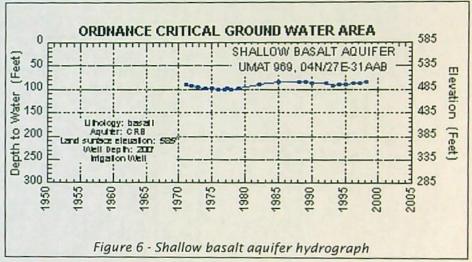
There are several general differences between the shallow and deep basalt aquifers. In the critical area, the depth to water in deep basalt wells is generally about 300 feet while the depth in shallow basalt wells is less than 150 feet below land surface. In addition, the shallow basalt is more readily recharged and is less productive, and has smaller declines. Ground water in the shallow basalt aquifer is, at least in part, unconfined while the deep basalts are confined. The shallow basalt aquifer does not display the uniform water level response that the deep ones do. In these ways, the shallow basalt aquifer acts more like an alluvial resource than the deep basalt and is likely hydraulically connected to the alluvial ground water.

JUL 2 8 2016 SALEM, OR Declines in both the shallow and deep basalt aquifers prompted the administrative action that created the critical area. Pumping by about 13 deep basalt wells resulted in total declines of up to 100 feet (*Figure 5*). A similar number of shallow basalt wells produced smaller declines of 30 feet or less (*Figure 6*).

Available information indicates that the shallow basalt aquifer is stable in the critical area. Water use under existing permits appears far less than when the order was entered. Exempt uses have increased modestly. For these reasons, the outlook for the ground water resource in this aquifer is good.

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Water levels in the deep basalt aquifer are not currently stable. However, the rate of water level decline is currently less than in recent decades. The water level response is highly uniform among the wells. Water use under existing permits remains high. Given the depth of the aquifer, exempt uses of water are not likely to expand. Declines continue and have resulted in total lowering of water levels up to 180 feet (Figure 5).

#### West of Ordnance

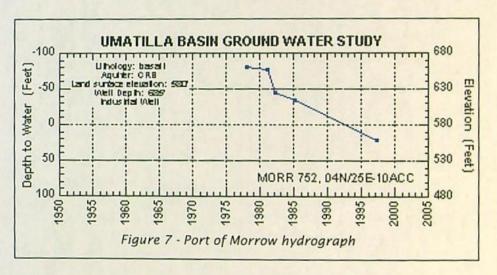
The 180 square-mile area west of Ordnance is also an area of basalt ground water concerns. The area of concern is bounded by the Columbia River to the north, Willow Creek on the west, the Ella Butte ground water classified area on the south, and the Ordnance basalt critical ground water area on the east (Figure 1).

The basalt aquifers in this area west of Ordnance are several thousand feet thick and are, for the most part, confined. The deepest well in the area is about 1000 feet but most are less than 500 feet. Ground water flow in these

aquifers is toward the Columbia River. Recharge is generally very low but the presence of surface water from canal leakage and other artificial sources is locally important to shallow basalt aquifers.

As with all basalt aquifers, there is a vertical stratification that produces aquifers with different water levels (heads) with depth. Deeper wells at low elevation have been capable of strong artesian pressures. Shallower wells have water levels that vary but are usually less than 200 feet below land surface. Basalt hydrology is complex and site-specific conditions can be more variable than this generalization suggests. The distinction between shallow and deep basalt aquifers in the area is difficult to make. As a generalization, the deep basalts are considered to be those below about 400 feet below land surface. Deeper aquifers have been more prone to decline with use. Deeper wells are often capable of yields in excess of 1000 gallons per minute while shallower wells produce less.

Properly constructed wells do not commingle aquifers with different water levels. When wells commingle aquifers, they act to stress the aquifer not only when pumping occurs, but also when the wells are not pumped, which can exacerbate any water level instability in the aquifers. Improper well construction may be an issue in this area.



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Current ground water development is primarily near the City of Boardman in a three-mile strip along the Columbia River. In this area, basalt aquifers provide a water source for municipal, industrial, irrigation, domestic, and other uses. Development of deep basalt aquifers has resulted in water level declines of tens of feet (*Figure 7*) while development of shallow basalt aquifers shows a high level of water level stability. The Port of Morrow is the largest user in this area and developed its permits to use more than 10 cubic feet per second (cfs) in the Port area. The Port has an additional permit to develop more than 8 cfs more from the deep aquifer through two wells near the Boardman Airport.

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Ground water development outside of the Boardman area is minimal, although there is some industrial and irrigation uses. Water use permits will allow about 3 cfs of new agricultural use for dairy operations in the center of the area.

Future demand on the basalt aquifer resource is uncertain. Current uses are expected to continue and undeveloped permits will be developed. These will increase the current demand and likely cause additional water level decline. A recent application in the north-central part of the area seeks to divert 35 cfs through nine wells for irrigation. There is speculation that the Boardman Bombing Range is being phased out and that land may go into private control. Such changes could promote additional demand on the basalt ground water resources in the eastern third of the area.

#### Ella Butte Classified Ground Water Area

Development of the ground water resource of the basalt aquifer in the Ella Butte Classified Ground Water Area began in the late 1960s and 1970s (*Figure 8*). Ground water production supplements limited surface water supplies in Willow Creek. With the development of irrigation from ground water, dry land farmers could greatly increase yields for wheat, peas, barley, and other crops and could produce a crop every year, rather than every other year. Improvements in irrigation methods, such hand lines, wheel lines and center pivots, led to further development of the ground water resource. By the 1990s, signs of ground water level instability had developed in the basalts of the Ella Butte area.

Ground water levels in the basalt aquifers were fairly shallow in the Willow Creek valley and are generally deeper to the east. Water levels vary greatly depending on the depth and location of wells. Declines vary from 350 feet in an unused irrigation well located in the eastern portion of

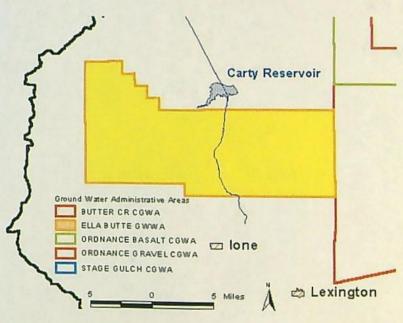
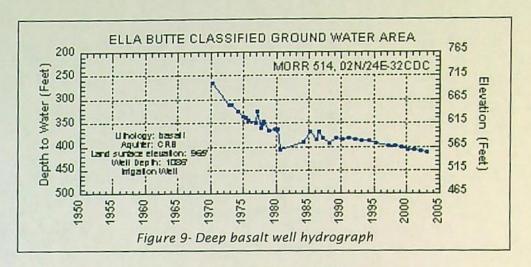
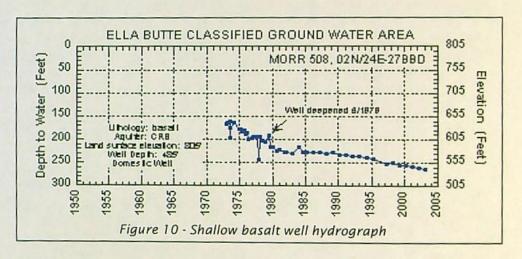


Figure 8 - Ella Butte classified GWA and well locations



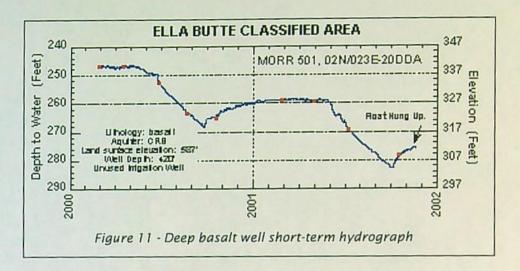
the area to about 260 feet at a well in Willow Creek valley. Ground water levels in an irrigation well, located in the middle of the area, have declined about 150 feet (*Figure 9*). Three shallow wells used for stock watering or domestic uses have shown 75 to 100 feet of decline (*Figure 10*) since use began about 30 years ago.

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In 1985, the Department initiated critical ground water area proceedings in the Ella Butte area and began the administrative rule process for designating the area in 1987. During the hearing process associated with rule development, testimony from the Ella Butte area indicated that annual pumping from the basalt aquifers was dropping and that a critical area designation was not required. In 1990, the Ella Butte area was classified by administrative rule for exempt uses only. Exempt uses include domestic use, stock-watering, and limited commercial or industrial. The classification prohibits additional large-scale uses such as irrigation or industrial.

Ground water levels are still declining in the Ella Butte Classified Ground Water Area. Recent changes to existing water rights in the Willow Creek area have resulted in 60 feet of decline in the last five years. Ground water



levels in the central portion of the area have declined about 15 feet over the same time period. Water levels collected from an unused well in the area indicate that seasonal drawdown in 2000 exceeded the recovery the following winter (Figure 11). The slope of the recovery was fairly flat for January through early May when irrigation began. This indicates that the aquifer had recovered as much as possible from the previous year's pumpage. Without reductions in ground water use, water levels will continue to decline.

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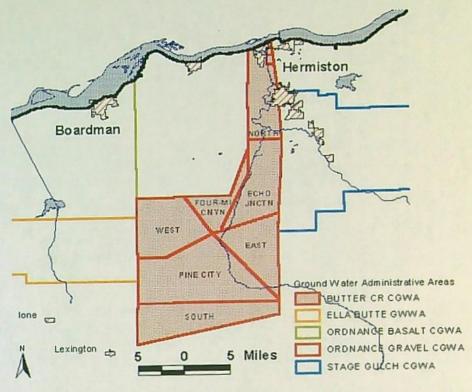
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### Butter Creek Critical Ground Water Area

Development of the ground water resource in the Butter Creek Critical Ground Water area began in the 1950's generally as a supplement to limited surface water supplies. Use of ground water from the basalt aquifers increased in the late 1950s and early 1960s as farmers developed ground water as a primary source of water for irrigation (Figure 12).

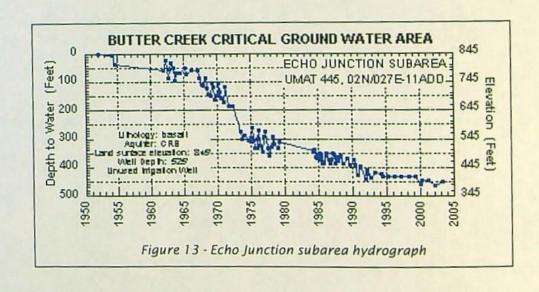
Ground water levels in the basalt aquifer in the early 1960s were fairly shallow. Some wells even flowed at land surface. By the mid-1960s, ground water levels had begun dropping. One well, located in the Echo Junction subarea, declined about 100 feet by the late 1960's (Figure 13). By the mid 1970's, the ground water level was approaching 300 feet below land surface. Water level measurements in February 2003 show a total water level decline in the Echo Junction subarea to be in excess of 450 feet.

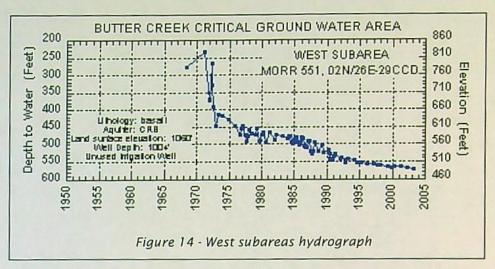
Ground water levels continue to decline in large portions of the Butter Creek Critical Ground Water Area. The critical area has been divided into "subareas" (*Figure 12*). The Pine City and West subareas still have declines of three to five feet per year (*Figure 14*). Recent, voluntary reductions in pumpage in the West Subarea may have stabilized ground water levels there. However, the reduction in pumpage was by a senior user and is not perma-

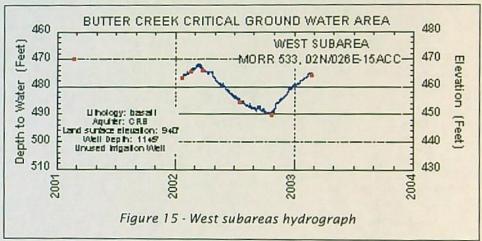


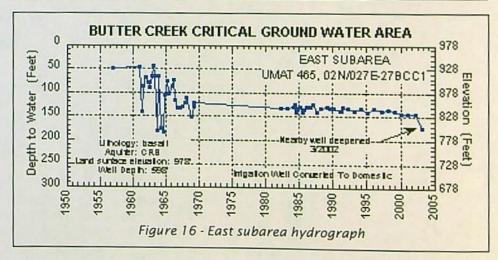
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Figure 12 - Butter Creek CWGA









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nent. A water level recorder was installed on an unused irrigation well in the West Subarea (*Figure 15*). The water level in this area is still rising when pumping begins in the spring, unlike the well in the Ella Butte area. If the wells were not started in the spring, ground water levels would continue to recovery from previous irrigation.

The North Subarea is also showing declines. All permitted uses, except the City of Umatilla, have been regulated off in the area. Water levels in the City of Umatilla's well have declined almost 50 feet. Domestic wells east of Hermiston have declined about 150 feet over the last 45 years. Well construction and additional new uses from domestic wells are also impacting ground water

levels in the North Subarea.

In the East Subarea, the ground water level in one well (Figure 16) dropped about 30 feet as a result of the deepening of a nearby well. Monitoring of ground water levels will determine if the lowering of the water level will continue or whether it will stabilize at the new level. If declines continue, well reconstruction may be required.

Pine City Subarea

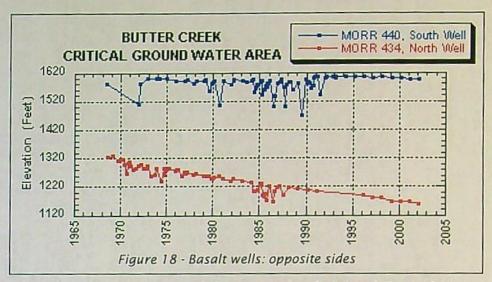
South Subarea

South Well

Figure 17 - Well location

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Geologic structures such as faults or folds can interrupts ground water flow (Figure 17). There is an east-west trending geologic structure that separates the South Subarea from the Pine City Subarea. Ground water level data collected from wells located on either side of the feature show the impact that geologic structures can have. The wells are about one mile apart and have very similar surface elevations. The water level for the southern well has been fairly stable over time compared with the water level for the northern well hydrograph (Figure 18). In 1970, the water level in the northern well was about 260 feet below the water level in the southern well. The water level at the northern well is currently over 435 feet lower than at the southern well.



Water levels in large portions of the Butter Creek Critical Ground Water Area continue to decline. Without additional pumpage reductions, declines will continue until it is no longer economic to pump water.

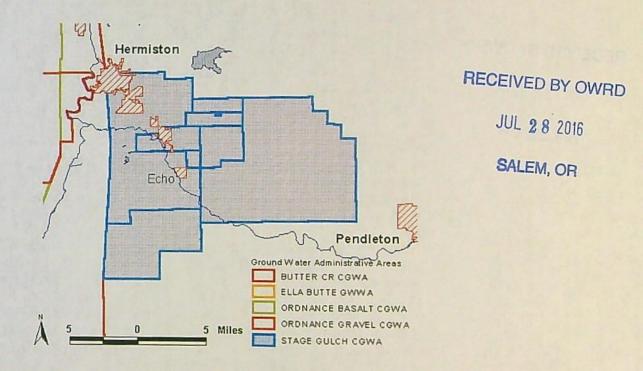


Figure 19 - Stage Gulch CGWA

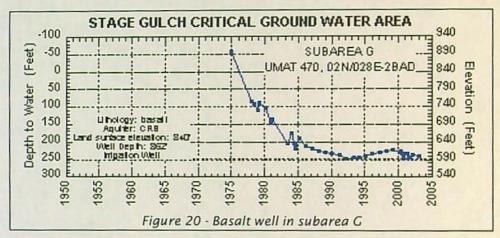
# Stage Gulch Critical Ground Water Area

The Department has been investigating ground water conditions in the Umatilla Basin since the late 1960s. The earliest work was concentrated in the Butter Creek and Ordnance areas, where extensive ground water devel-

opment, primarily for irrigation, first occurred. As additional development of ground water progressed through the 1970s in areas to the east and west of the Butter Creek and Ordnance areas, the scope of the Department's investigation expanded to include those areas. By the mid 1980s, it was clear that the same problems that had been documented in Butter Creek and Ordnance were occurring in these more recently developed areas.

The Stage Gulch Critical Area to the east of the Butter Creek area (*Figure 1*) was established in 1991 to address three issues developing in the confined basalt aquifers. These issues included excessive ground water level declines, substantial interference between wells, and overdraft of the ground water resource.

The Stage Gulch Critical Ground Water Area includes approximately 183 square miles (Figure 19). Over 100 permitted basalt wells are located within the area.

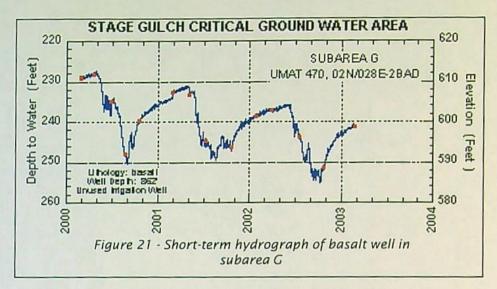


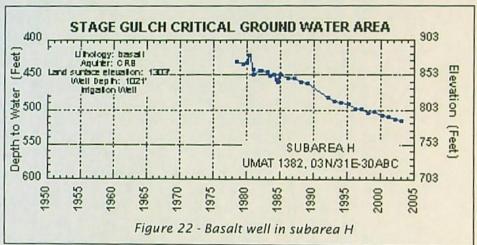
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These wells are authorized for primary and supplemental irrigation of over 25,000 acres, municipal use for the cities of Hermiston, Stanfield and Echo and some industrial and manufacturing uses. The critical area is divided into eight subareas, each of which is managed separately.

Since the critical area was established, Department staff have continued to monitor water levels and water use at basalt wells. Several hydrographs illustrate water level trends in these wells. Figure 20 shows the water level data collected at a currently unused irrigation well in subarea G. This well flowed at land surface when first constructed. The water level declined quite rapidly, more than 20 feet per year, during the first decade of water use. The rate of decline decreased to about 8.4 feet per year from 1985 to 1992. Water use in the subarea decreased immediately following the critical area declaration. As a result, the water level rose about 26 feet between 1992 and 1999. Since then, pumpage has increased again, and the water level has declined about 20 feet. Since February 2000, the Department has continuously recorded water levels at this well. The hydrograph in Figure 21 shows the seasonal water level fluctuations, including the response to nearby pumping wells during the irrigation season and the subsequent recovery during the fall and winter months. Other wells in subarea G display water level trends similar to this well.

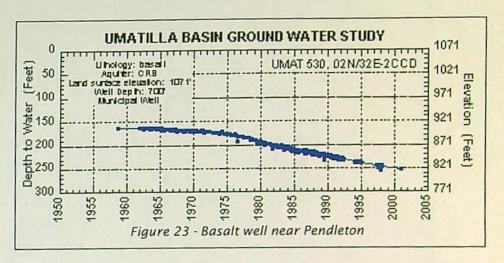




Wells in other subareas exhibit trends generally indicating water levels have not stabilized since the critical area was designated. Water levels continue to decline, but at a lower rate, following establishment of the critical area. Figure 22 is a hydrograph for an irrigation well within subarea H. Water levels at wells in this subarea declined about 2.5 to 4.5 feet per year in recent years. Data from the area generally suggest that, without further reductions in ground water use, water levels will continue to decline until it is no longer an economic source of water.

### Pendleton Area

The City of Pendleton currently uses a combination of surface and ground water sources for municipal purposes. The proportion of the city's total water supply that comes from ground water is increasing. Eventually, the City is seeking authorization to develop up to 13 wells tapping the deep confined basalt aquifer.



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The City's use from the first well began in 1946. Additional ground water use has grown through the decades as new wells were built. The City now has rights to pump 11.7 million gallons per day and the infrastructure to pump most of that rate. Additional wells are identified on permits but are not yet developed.

The development of deep basalt ground water has resulted in water level declines. The current decline rate is about three feet per year (Figure 23) and reflects the highest rate of decline to date. The decline in the City wells is highly uniform. For the most part, municipal pumping is causing the declines. However, other wells in the surrounding area also play a role, but the deep basalt aquifer is not developed by many of the nearby wells.

The City of Pendleton has built a new water treatment plant and plans to implement an aquifer storage and recovery (ASR) project. ASR will consist of injecting and storing a portion of the City's treated water in the deep basalt wells during times when water is available in the winter and spring. During the summer and fall, the stored water will be pumped out of the wells to supplement the surface water supply from the treatment plant to meet higher demands. The City is undertaking a pilot project to better understand the potential for ASR.

The goal of implementing the ASR strategy is to allow the City of Pendleton to continue using ground water while minimizing impacts to the regional ground water supply. By using stored treated water instead of natural ground water, the City expects to reduce the current natural ground water decline. Eventually, it may be possible to halt the decline or begin to see an increase in ground water levels.

# Ground Water Conditions in Outlying Areas

Every winter since 1979, generally in late February, Department staff have collected water level data at numerous basalt and alluvial wells in the Umatilla Basin. The number of wells visited has varied over time, but has averaged about 275 in recent years. Most irrigation wells are idle at this

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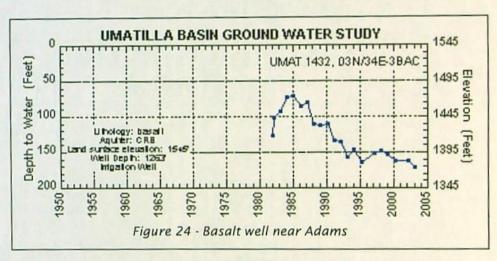
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time and static water levels are generally at their annual high. All but approximately 45 of the wells measured are in one of the ground water management areas discussed previously in this document.

The wells located outside of the management areas include irrigation, domestic, municipal and unused wells scattered throughout the basin. Concentrations of such wells are in and around the cities northeast of Pendleton, the Pilot Rock area, and a broad area to the southwest which includes Ione, Lexington and Heppner. Some of these wells have long-term records while others have been added in more recent years in response to new permit issuance or concerns by staff or local water users regarding potential well interference or water level declines.

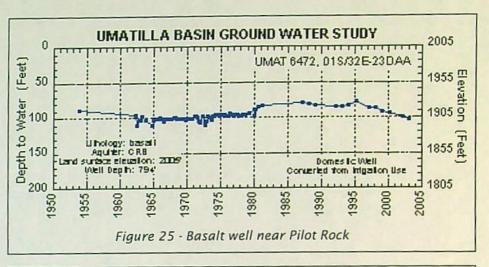
The Department received several complaints from the cities of Adams, Athena and Helix during the late 1980s. In general, the city wells were no longer able to produce the permitted or customary quantities of water, especially in mid to late summer when demand is highest. Upon investigation, the Department determined that the problems likely resulted from multiple causes, including well or pump problems, water level declines and pumping interference from other wells.

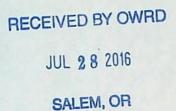
There are approximately 40 permitted wells in the vicinity of the cities of

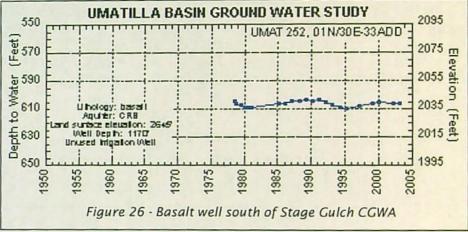


Adams, Athena, Weston and Helix, most of which are used for irrigation. Several of these wells pump water in sufficient quantities, and are located close enough to municipal wells, such that measurable pumping interference is likely. The magnitude of the interference was estimated and determined not to be substantial. Therefore, no regulation of nearby junior water users was necessary.

The cities of Helix and Adams constructed new basalt wells in 1989. The city of Athena acquired an unused deep well in 1992, converted it to municipal use and obtained a new water use permit which allows additional use. These cities have not reported any significant problems with their wells subsequent to that time. However, water levels continue to decline at







many wells in this area. Figure 24 is a hydrograph for an irrigation well near the city of Adams. Winter static water levels at this well have declined about 100 feet since 1985.

In the remainder of the outlying areas of the basin, with the exception of an area from Pilot Rock north to McKay Reservoir, development of the ground water resource is much less concentrated than in the above cited area. The following hydrographs (*Figures 25 and 26*) illustrate water level trends for selected wells in these outlying areas of the Umatilla Basin. In general, water levels in these areas exhibit a range from relatively stable to moderately declining. Water levels in more remote areas are likely responding to long-term climatic trends, while those in other areas may be influenced by both local water use patterns and the climatic trends.

Existing users of basalt wells frequently express concerns regarding potential well interference and ground water availability whenever new uses of ground water are proposed in their area. The Department shares these concerns, given the past and ongoing water level trends in the more heavily developed parts of the basin. Currently, there are pending ground water applications which propose to use significant quantities of water in areas south of the Stage Gulch and Butter Creek critical ground water areas. Water users within the critical

areas have protested these applications. Ground water staff are recommending water level measurement and decline conditions to be included in these permits, if issued. Staff currently recommend these or similar conditions for nearly all new permits for basalt wells in the basin. Water level data collected to fulfill such permit requirements will supplement such data collected by Department staff, and may be used in making future management decisions regarding the basalt ground water resource in the Umatilla Basin.

## The Next Step

Oregon statutes require the Water Resources Department to manage ground water as a renewable resource. Among other things, the Department is charged with maintaining reasonably stable ground water levels and preventing overdraft, substantial interference between ground water users, and substantial interference with surface water.

Economic activity within the Umatilla Basin is increasing steadily and will require additional supplies. Ground water will continue to be targeted as a source to accomodate this economic growth. Reliance on ground water for those supplies may be unrealistic given today's water management objectives. To be effective, those decisions need to be based on a thorough understanding of the conjoined ground water/surface water system. A comprehensive Basin wide ground water study is being planned to provide the necessary understanding. In its conceptual form, the U.S. Geological Survey would be engaged as a cost share cooperator with the Water Resources Department in conducting the study. The Department is soliciting partners from the Basin to assist in the formulation of a study plan and in the financing the study. Following its completion, those same partners will be called upon to assist in developing a comprehensive ground water management plan for the Basin that makes maximum supplies of water available for economic growth without compromising the statutorily adopted values and goals of sustainable ground water management.

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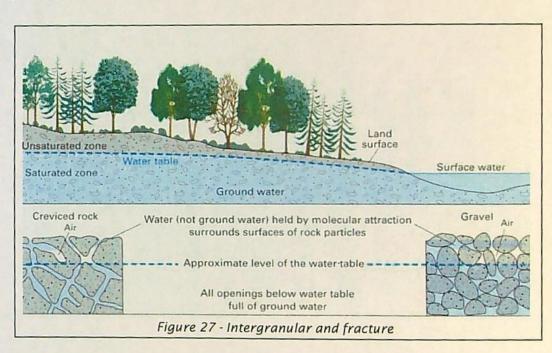
### APPENDIX A

## **Basic Ground Water Concepts**

### Ground Water Occurrence

Water that fills void spaces in naturally occurring Earth materials is called ground water. Void spaces, or pores, can be present in Earth materials for a variety of reasons, but there are only two or three that are important in the Umatilla Basin.

The first of these is intergranular porosity (Figure 27). Water can fill the pore spaces between the silt, sand and gravel particles that make up the alluvial deposits. Alluvial deposits can be made up of as much as 30 or 35% pore space. So alluvium can contain significant quantities of water.



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The second is fracture porosity. Fractures can be quite open, providing an avenue through which water can readily flow, or be "tight", not allowing water to flow readily. Fractures typically do not make up a large proportion of the rock material and, therefore, do not account for very much storage of water. Also, fractures are usually

discontinuous, making them unreliable as sources or conduits of water.

The third is interflow zones (*Figure 28*). The upper surface of each basalt flow is typically weathered, creating some porosity. Often, basalt flow tops were exposed long enough for alluvial or lacustrine deposits or soils to form on them which also contain porosity. Frequently, the bottom of the basalt

#### RECEIVED BY OWRD Top of flow Unfractured flow top low permeability low norosity Dance flow interior JUL 28 2016 very low permeability very low porosity Basal flow breccia SALEM, OR high permeability high peresty Base of flow Dense flow interior 90 feet very low permeability very low porosity Base of flow Flow top breccia high permeability high porosity Dense flow interior very low permeability very low porosity Basal columns very low permeability Base of flow very low porosity

Figure 28

Figure 29 - Aquifer types

flows is quite rubbly leaving relatively large pore spaces in which water can accumulate. These flow tops, overlying soils or sediments, and overlying rubbly flow bottoms comprise what are called interflow zones. These interflow zones can be quite porous and permeable. However, interflow zones make up a relatively small proportion of the total column of basalt. While they store more water that fractures systems, they do not store as much as intergranular porosity.

# Aquifer Types

Water can exist underground in either confined aquifers or unconfined aquifers (*Figure 29*). Both are present in the Umatilla Basin.

In unconfined aquifers, the upper surface of the saturated zone is called the water table. The water table may be near land surface or at considerable depth. But the distinguishing characteristic of an unconfined aquifer is that the overlying earth materials are porous and permeable so that atmospheric pressure is readily transmitted through them. The result is that the upper surface of the zone of saturation is at atmospheric pressure. Ground water in the Basin alluvium is unconfined.

This is not the case in a confined aquifer. Earth materials overlying confined aquifers have low porosity and permeability such that there is no efficient connection between the atmosphere and the upper surface of the saturated zone. Because of the confining layer, the pressure at the upper surface of the zone of saturation is greater than atmospheric. In some cases the pressure can be so great that when the confining layer is breached by drilling a well, water is forced all the way to land surface and the well

flows. Ground water in the Basin basalts is generally confined.

## Ground Water Flow Systems

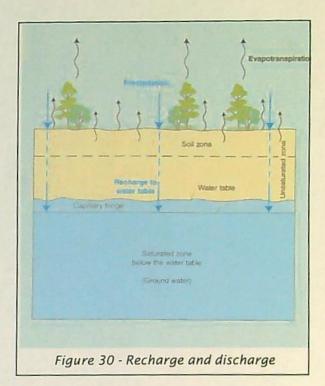
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### Recharge

Ground water owes its existence to water present at land surface. That water percolates downward through porous earth materials to saturate void space underground. This process is called recharge (Figure 30). The source of recharge water can be completely natural such as rain fall or snow melt. Water can also percolate through the bed of streams to recharge underlying aquifers.



However, artificial sources of recharge also can be significant. Unlined

irrigation canals and unsealed surface water impoundments provide recharge water. In some places, such hydraulic structures are intentionally designed to leak specifically for the purpose of recharging underlying aquifers.

#### Basin alluvium is readily

recharged by water present at land surface in excess of that which is evapotranspired by plants. Some recharge in the alluvium is by way of precipitation, but significant amount also result from canal leakage, irrigation practices and at times from stream leakage.

Basin basalts are not so easily recharged because they are confined aquifers. It is

currently thought that most, if not all, recharge to the basalts occurs in the higher elevations of the Basin. There, the edges of the basalt flows are exposed as are the interflow zones. Streams crossing those interflow zones then lose some of their water which percolates down dip to the lowlands where it is tapped by wells drilled through the confining layers. Some additional amount of recharge to the basalts also occurs because of faulty well construction that in some places allows water from shallower aquifers to fall down into the deeper basalts by way of the well bores.

The Umatilla Basin is arid. Down in the lowlands where the unconfined aquifer exists, precipitation is only about 8 to 10 inches annually in Hermiston. Only in the months of November through February does the precipitation exceed potential evapotranspiration around Hermiston. Higher elevations receive more precipitation and there are additional

months where precipitation exceeds potential evapotranspiration. It is difficult to maintain the resource if only this natural recharge is available and if the resource is heavily used.

The basalts recharge in an area where precipitation is somewhat greater. However, the recharge mechanism is very inefficient and it takes a long time (probably thousands of years) for the recharged water to flow down to where it is being withdrawn and used.

### Discharge

If ground water recharges naturally, it must also discharge. If it did not, water would accumulate until it everywhere reached land surface. Ground water slowly percolates through the aquifers and out into streams, lakes or wetlands. In some cases it does not quite reach land surface, but approaches only into the root zone of plants that then evapotranspire the water as fast as it arrives. These are natural discharge processes that are ongoing largely unseen. It is this natural discharge that maintains stream flow when the winter snows have melted of the mountains.

Ground water can, of course, also be subject to artificial discharge processes. The most common of these is the pumping of water from wells.

In the Umatilla Basin the alluvial aquifer naturally discharges much of its water where the valley is constricted north of Butter Creek (*Figure 31*). Pumping discharge, of course, occurs in many places.

Natural discharge from the basalts is diffuse and not readily observed. However, by mapping the heads (Figure 32) elevation to which the water

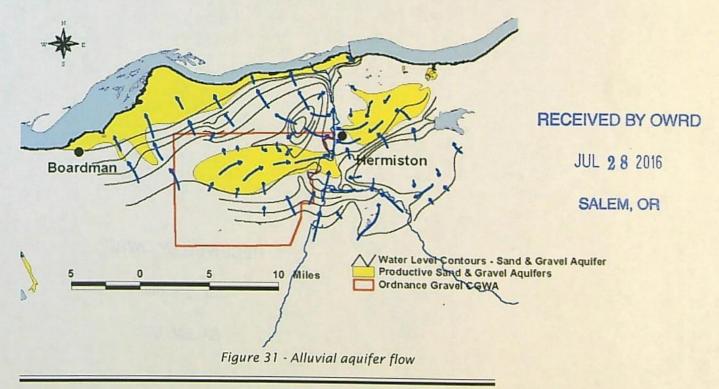




Figure 32 - Basalt aquifer flow

level in this confined aquifer rises when the confining layer is penetrated) in the basalt, it is possible to infer where recharge is occurring. This was done in the early 1980's. Water generally flows perpendicular to the contours indicating discharge to the Umatilla and Columbia Rivers.

### Flow

Ground water flow is generally from areas of higher elevation to those of lower elevation. Flow is always down the hydraulic gradient as defined by the three dimensional distribution of heads within the aquifer. However, flow is seldom in a straight line. Water will be diverted by faults and folds and by spatial changes in the hydraulic properties of the aquifers.

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### APPENDIX B

# Geology of the Umatilla Basin

The Umatilla Basin is comprised of two major geologic features - the Deschutes- Umatilla Plateau and the Blue Mountains. The Deschutes-Umatilla Plateau is a broad upland plain formed by flow upon flow of basalt. The flows dip gently northward from the Blue Mountains to the Columbia River. Events that gave rise to these geologic features are described below and a simplified geologic map of the basin is provided as Figure 33.

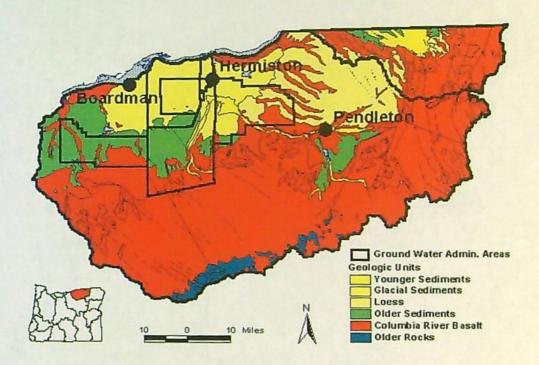


Figure 33 - Simple geology of Umatilla Basin

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RECEIVED By Beginning about 16 million years ago and continuing over a six million year period, enormous volcanic eruptions poured out basaltic lava flows from fissures in the Earth's crust in eastern Oregon and Washington and in Idaho. These lava flows spread out over vast areas, some flowing as far west as the Pacific Ocean. The rocks formed by these eruptions are collectively referred to as the Columbia River Basalt Group, or less formerly as the Columbia River Basalts.

> Over time, scores of eruptions occurred resulting in basalt layers stacked one on top of another. The eruptions occurred sporadically over time but on average 50,000 to 100,000 years elapsed between eruptions. In all, these eruptions built up a sequence of basalt lava flows totaling over 10,000 feet in thickness in some places. These basalt flows form the dominant rock units in the Umatilla Basin.

Coincident with this volcanic activity, regional uplifting formed the Blue Mountains along the south and east borders of the basin. This uplifting folded and faulted the basalts. Large arch-shaped folds (anticlines) form the uplands. Broad U-shaped folds (synclines) form deposition basins between the upland areas.

Throughout much of the Umatilla Basin, the Columbia River Basalt has been overlain by sedimentary deposits. Glacially-derived silts were deposited by wind on top of the basalt-dominated landscape. These wind blown silts have been stripped away in some places and replaced by riverbed and flood deposits, or alluvial deposits. Consisting of sands, gravels, and boulders, these deposits occur in the stream valleys and are extensive in the lower part of the basin.

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# Exhibit 2

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### **West Extension Irrigation District**

P. O. Box 100; Irrigon, OR 97844-0100 541-922-3814 (ph) 541-922-9775 (fax) westex@oregontrail.net

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February 22, 2008

JUL 2 8 2016

SALEM, OR

Phil Ward, Director Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, OR 97301

RE: Impacts to West Extension Irrigation District Water Supply from Ground Water Pumping

Dear Director Ward:

Thank you for meeting with us in 2007 to hear our concerns regarding the diminishing water supply for West Extension Irrigation District's (WEID) patrons. At the meeting, among other issues, we raised the matter of ground water pumping by junior water right holders and the impact of such pumping on WEID's water supply from the Umatilla River. WEID retained HDR Engineering, Inc. (HDR) to complete an inventory of the amount of ground water rights that are allocated within the Umatilla Basin below Pendleton pumping water from the unconfined aquifer. HDR coordinated with OWRD Hydrogeologist Karl Wozniak on this study. Key points of the memorandum include the following:

- Within the Umatilla Basin below Pendleton, HDR identified a total of about 400 water rights for wells in the unconfined aquifer and shallow basalt aquifer that authorize the use of water for approximately 13,400 acres of primary irrigation and 19,800 acres of supplemental irrigation.
- Based on a crop irrigation requirement of 2.55 acre-feet per acre, and assuming that supplemental rights are used at 50 percent of primary rights, this equates to an estimated consumptive use of 60,000 acre-feet annually or about 160 cfs during the irrigation season.
- As depicted in Figures 9 to 11 and the summary table on Page 6, the vast majority of wells in the unconfined and shallow basalt aquifers (over 375 wells) are not conjunctively managed by the Department under OAR Chapter 690, Division 9 (Division 9) as hydraulically-connected junior water rights impacting senior surface water rights. Approximately 70 of these wells are within 1 mile of the Umatilla River and all 375 are within 5 miles.

Impacts to WEID Water Supply Phil Ward Page 2

> The results of this study are similar and complementary to the inventory of water rights in the Umatilla Basin completed by Karl Wozniak.

While WEID appreciates the Department's conjunctive management efforts under Division 9 to date, the attached memorandum suggests that the effort is falling short. Given the significant amount of consumptive use by hydraulically connected junior ground water right holders, WEID requests OWRD redouble its efforts to protect WEID's senior water rights consistent with Oregon law and the Oregon Water Resources Commission's Groundwater Management Policy under OAR 690-410-010. To maintain the status quo would abrogate the Department's fundamental responsibility to protect senior water rights and would only leave WEID with the option of requesting relief through department regulatory process.

As you recall from our previous meeting, WEID relies on the Umatilla River for irrigation at a gravity-flow diversion located at Three-Mile Falls Dam. Using reasonable estimates of ground water consumptive use, the analysis presented in the enclosed technical memorandum shows a depletion of ground water in the shallow aquifer connected to the Umatilla River of about 60,000 AF. WEID is bearing the brunt of the burden caused by this situation. Our live flow from the Umatilla River has dropped from over 80,000 AF in the middle of the century to below 20,000 AF during recent years (documented in HDR's previous report). Because of this situation, WEID can no longer depend on the river for a reliable supply. As a result of reduced river flow available for appropriation or exchange, WEID has instituted a rotation system; has, at times, cut deliveries; and has become increasingly dependent on water pumped up from the Columbia River. While abundant, Columbia River water is very expensive to lift and pump, about \$32/acre-foot (and these costs increase every year). WEID's patrons are facing hardship from both water shortages and increased pumping costs.

While WEID has faced hardship and curtailment, there has been a vast increase in the amount of ground water rights allocated in the Umatilla Basin. Almost all of the ground water rights have a junior priority to WEID's Umatilla River surface water rights. WEID contends that most, if not all, of the ground water wells identified in the Technical Memorandum intercept water in the shallow, unconfined aquifer that would otherwise flow into the Umatilla River. To the extent that this contention is true, they are reducing the water that WEID is entitled to use, and the Department should be protecting the water for use under WEID's senior water right. Under this method of administration, the junior ground water users that are not administered by the Department get a full supply, while WEID (the senior right) faces shortages and curtailment.

WEID further notes that the wells cited in the attached Technical Memorandum deplete live flows needed for Umatilla River fisheries. The United States, the Confederated Tribes of the Umatilla Indian Reservation, and the State of Oregon have gone to great lengths and spent a significant amount of money to restore and protect those fisheries. WEID believes that actions to protect its rightful water supply will also further the goals of fish restoration and protection.

WEID understands that the Department has many issues in front of it. However, WEID's continued existence depends on efficiently resolving the factors associated with reduced stream flow available for appropriation or exchange. The attached memorandum and previous studies by OWRD and others (cited in the memo) demonstrates that ground water us PECENTED WIND Plactor to these reduced stream flows.

JUL 2 8 2016

Impacts to WEID Water Supply Phil Ward Page 3

We look forward to working with you to develop a cooperative remedy.

Please contact me if you have any questions and to set up a meeting as needed to discuss the attached memorandum.

Sincerely,

Bu Brielgewater West Extension Irrigation District Bev Bridgewater, Manager RECEIVED BY OWRD

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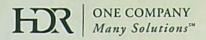
Enclosure

Cc: Jerry Rodgers, OWRD - Salem
Mike Ladd, OWRD- Pendleton
Tim Personius, Bureau of Reclamation- Boise
Ron Eggers, Bureau of Reclamation- Portland
Aaron Skirvin, CTUIR
Rick George, CTUIR
Douglas MacDougal, Schwabe, Williamson & Wyatt
John Koreny, HDR Engineering, Inc.
Adam Sussman, GSI Water Solutions, Inc.
Eric Glover

# Exhibit 3

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# **Technical Memo**

To:	Bev Bridgewater, West Extension Irrigation District	
From:	John Koreny, RG, PH Dave Minner, EIT	Project: West Extension Irrigation District
	Douglas MacDougal, Schwabe, Williamson & Wyatt Adam Sussman, GSI Water Solutions Eric Glover	RECEIVED BY OWRD
Date:	November 15, 2007	Job No: 13027 JUL 2 8 2016

RE: Inventory of Ground Water Rights in the Umatilla Basin

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#### INTRODUCTION

This technical memorandum reports on an inventory of the ground water rights in the Umatilla Basin, focusing on the Middle and Lower Umatilla Basin (roughly from McKay Creek to the mouth of the Umatilla River). The ground water right information is from the State of Oregon WRIS water right database. The purpose of the study was to provide information that could be used in the process to identify ground water rights that may be affecting the flow in the Umatilla River.

#### DESCRIPTION OF HYDROGEOLOGY AND GROUND WATER SUPPLY

There is an extensive amount of ground water pumping in the Umatilla Basin as reported by other investigations (Wozniak, 2007; Reclamation, 2005; Graham, 2002; Grondin et al, 1995). Ground water provides a supply for irrigation, municipal, industrial, commercial and domestic uses. There are two primary aquifers types in the Umatilla Basin.

- An unconfined aquifer near the surface composed of alluvial deposits in the center of the basin (shown in yellow on Exhibit 1) or fanglomerate in the south of the basin. Shallow basalt wells may also be part of the unconfined aquifer.
- A deeper basalt aquifer that is present throughout most of the basin.

The ground water flow paths in the shallow unconfined aquifer are presented on Exhibit 1. Ground water flows towards and into the Umatilla River throughout most of the Middle and Lower Basin. The Middle and Lower Basin is roughly defined as the area including and below McKay Creek. The Upper Basin is roughly defined as the area above McKay Creek and Pendleton. There is a ground water flow divide that causes ground water to flow towards and into the Columbia River in the northern edge of the basin. Based on this understanding and based on the scientific principle of the depletion of flow on hydraulically-connected river reaches by ground water pumping (Theis, 1940; Bredehoeft et al., 1982), the consumptive use of ground water that would have flowed into the Umatilla River by wells pumping from the unconfined aquifer reduces the flow in the river. To the extent that this water would have been used to meet the irrigation diversion requirements of surface water right holders with a senior-priority date and causes a water shortage for those senior water right holders, those wells are impacting the supply of surface water users with senior-priority water rights.

Our study area included all of the Umatilla basin (excluding the Willow Creek and the Walla Walla sub-basin) but focused on the Middle and Lower Basin, since this is the area where ground water use is most-likely to affect the natural flow in the river and the water supply relied on for the supply for surface water users and for instream flow. The area within three miles of the Columbia River was removed from the study area because ground water in these areas is known to flow directly to the Columbia River.

### METHOD TO INVENTORY GROUND WATER RIGHTS

The State of Oregon WRIS water rights database was obtained for the Umatilla Basin (excluding the Willow Creek and the Walla Walla sub-basin) and queried to identify the location and type of ground water rights, point of diversions (PODs) and place of use (POU) for both primary and supplemental rights. The information presented in this memorandum is solely derived from the WRIS database. It was not within the scope of the project to independently examine individual water right certificates or other documents within the Oregon Water Resource Department (OWRD) water right files. The study only focused on water rights for irrigation, industrial, municipal or commercial uses and did not include domestic use or other water rights with non-consumptive uses (like fish hatcheries). Water rights were assigned to representative aquifers in the basin (alluvial, shallow basalt and deep basalt) by matching water rights and PODs to well logs. Shallow basalt was identified as the aquifer type for a well completed in basalt at a depth of less than 200 feet, since this type of well is likely to obtain water and to be in hydraulic connection with the shallow unconfined aquifer. Most of this work had already been completed by Mr. Karl Wozniak with OWRD and by Ms. Kate Ely with the CTUIR. HDR's analysis in this regard was limited to supplementing the work done by Mr. Wozniak and Ms. Ely for water rights that had not already been matched to aquifers. The hydrogeologic information needed to match water rights and PODs to well logs to identify which aquifer supplies water to the right was obtained from the reports referenced in the Bibliography at the end of the text.

#### SUMMARY OF RESULTS

# Analysis of Water Rights in Middle and Lower Umatilla Basin

The result of the inventory is presented on Tables 1 to 6 and on Figures 1 to 11 for the Middle and Lower Umatilla Basin area. The following discussion focuses on water rights in the alluvial and shallow basalt, since these are most-applicable to the uses of ground water from the unconfined aquifer that may impact the flow in the Umatilla River.

Table 1 shows that there are about 271 alluvial PODs and 127 shallow basalt PODs for a total of 398 PODs in the Middle and Lower Umatilla Basin area. Assuming that one POD represents one well-this represents about 398 wells. Table 2 shows the distance of the PODs from the Umatilla River and indicates that about 70 PODs (wells) completed in the alluvial and shallow basalt are located within one mile of the river and the vast majority are located within 5 miles of the river. The locations of these PODS are shown on Figure 1.

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Table 3 shows that the PODs in the alluvial and shallow basalt aquifers represent about 378 water rights. The breakdown between the number of water rights and the type of right (primary and supplemental) and the distance from the Umatilla River for these rights are presented on Table 4. Table 5 shows the combined instantaneous flow rate on the water right for rights that have non-irrigation uses, and the information on the table shows that non-irrigation uses are not a significant water use category for the alluvial and shallow basalt aquifers (about 32 cfs total maximum instantaneous use). Table 6 shows that all of the irrigated acres for the sum of PODs in the alluvial and shallow basalt aquifer is about 13,400 acres for primary rights and 19,800 acres for supplemental rights. The majority of these acres are located within 5 miles of the Umatilla River. The spatial distribution of primary and supplemental rights for alluvial and shallow basalt aquifers in the Middle and Lower Umatilla Basin are presented on Figures 2 and 3. Figures 1, 2 and 3 and Exhibit 1 show that many of the PODs and water right acres used for irrigation are within the ground water flow paths that would contribute flow to the Umatilla River, and so the use of many of these wells would cause some interference with the flow in the river.

Figures 4 through 6 presents the same information for the PODs and water rights completed in the deep basalt aquifer. Figures 7 and 8 present the same breakdown for aquifer types (alluvial and shallow basalt and deep basalt) for the entire basin. The same tables referenced above are also presented in Appendix A for the entire Umatilla Basin (instead of just the Middle and Lower Basin) in Tables 7 to 12. Appendix B presents more comprehensive details on the location, name, address, water right id number and other information for the designation of water rights by aquifer type and distance from the river.

# Estimate of Consumptive Use by Wells in the Unconfined Aquifer in the Middle and Lower Umatilla Basin

An analysis was completed to estimate the consumptive use of water for irrigation for acres served by wells located in the unconfined aquifer (alluvial and shallow basalt) using the water right acreage information compiled on Table 6. The crop water requirement for these irrigated acres was calculated using the following process:

- Dr. Donald Horneck at the Oregon State University agricultural extension in Hermiston was contacted for a distribution of crop types by acre for Umatilla and Morrow County. This information was summarized to obtain an average crop distribution for the major crop types, shown the table below.
- The crop evapotranspiration for these acres were determined from the Bureau of Reclamation Agrimet database <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a> using the average of the crop evapotranspiration requirements for the Hermiston and Echo recording stations from 1990 to 2006.
- The effective precipitation (the precipitation during the irrigation season that meets the crop ET) was obtained from the Hermiston precipitation recording station using the procedure outlined in USDA Technical Bulletin 1275.

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4. An average crop irrigation requirement (CIR) was obtained by reducing the crop ET by effective precipitation. This CIR value was multiplied by the number of acres listed on the water rights. The computed CIR by month is shown on the table below.

### Average crop distribution for Umatilla and Morrow County

Crop	Acres	Percentage
Wheat	37,459	18%
Field Corn	12,900	6%
Sweet Corn	8,420	4%
Alfalfa	76,660	35%
Popular trees	25,799	11%
Apples	1,191	1%
Onions	6,280	3%
Potato	28,000	13%
Peas	15,160	7%
Beans	7,159	4%
Total	219,028	100%

### Computed crop irrigation requirement (CIR) for Umatilla Basin

	May	Jun	Jul	Aug	Sep	Oct	Total
Crop Irrigation Requirement (feet)	0.42	0.64	0.73	0.51	0.22	0.04	2.55

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The irrigation acreage associated with the water rights shown on Table 6 was multiplied by the CIR of 2.55 ft/acre to obtain the following estimates of consumptive use by ground water wells.

# Estimated consumptive use by ground water wells in the Umatilla Basin pumping from the unconfined aquifer

Water Right Type	Aquifer Type	Irrigated Acreage (acres)	Crop Irrigation Requirement (ft)	Consumptive Use Factor	Estimated Consumptive Use (acre-ft)
Primary	Alluvial	11,307	2.55	1.0	28,800
Primary	Shallow Basalt	2,123	2.55	1.0	5,400
Supplemental	Alluvial	18,188	2.55	0.5	23,000
Supplemental	Shallow Basalt	1,595	2.55	0.5	2,500
Total	-	33,200	-	-	60,000

In order to obtain a total consumptive use estimate for the unconfined aquifer it is necessary to estimate how often supplemental rights are used for irrigation. We have assumed that supplemental rights are used at 50% of the consumptive use for primary rights. Based on this assumption, the total consumptive use associated with ground water rights in the unconfined aquifer is estimated at 60,000 AF. This is equal to approximately 80 cfs annually or 160 cfs during a six month irrigation season.

This estimate compares well with estimates from previous studies as described below:

- Roache (2005) estimated that ground water pumping in the alluvial aquifer ranged from 35,000 to 45,000 acre-feet/year (afy). This is equal to approximately 48 to 62 cfs annually or 96 to 124 cfs during a six-month irrigation season.
- Grondin et al. (1995) estimated that ground water pumping in the alluvial aquifer ranges from 65,000 to 98,000 acre-feet/year (afy). This is equal to approximately 90 to 140 cfs annually or 180 to 280 cfs during a six-month irrigation season.
- Graham (2002) estimated a reduction in return flow ranging from 26,000 to 52,000 acre-feet.
   This is equal to approximately 40 to 70 cfs annually or 80 to 140 cfs during a six-month irrigation season.

### COMPARISON TO OWRD LIST OF HYDRAULICALLY-CONNECTED WELLS

A list was obtained from Mr. Mike Ladd of OWRD in Pendleton that included the wells that OWRD has determined are eligible for administration as hydraulically-connected wells that interfere with flow in the Umatilla River. The list is attached as Appendix C. The location of these water rights is shown on Figure 9. A comparison was made to determine which wells located within the alluvial adulter and shallow basalt are regulated by OWRD. The comparison is shown on Appendix B in the last column of the spreadsheet table. The table below is a summary from the last column in Appendix B and shows that 254 wells completed in the alluvial aquifer and 122 wells completed in the shallow basalt aquifer are not on the list of administered hydraulically-connected wells that may interfere with flow in the Umatilla River. Figures 10 and 11 shows the locations of the wells in the alluvial and shallow basalt unconfined aquifer that are not regulated or administered by OWRD.

List of water rights that are located within the alluvial aquifer and shallow basalt aquifer that are not on OWRD's list for administration as hydraulically-connected wells.

Distance from Umatilla River	Alluvial Aquifer Water Rights	Shallow Basalt Aquifer Water Rights	Total
0 – 0.5 miles	15	17	32
0.5 – 1.0 miles	29	9	38
1.0 – 2.0 miles	29	17	46
2.0 – 5.0 miles	114	55	169
>5.0 miles	67	24	91
Total	254	122	376

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Table 1 Count of PODs by aquifer type within the Middle and Lower Umatilla Basin

	Alluvial	Shallow Basalt	Total Unconfined	Deep Basalt	Undetermined	Total
Total	271	127	398	198	52	648

Table 2 Count of PODS by aquifer type, distance from Umatilla River, and use class for Middle and Lower Umatilla

Use Class	Miles from Umatilla River	Alluvial	Shallow Basalt	Total Unconfined	Deep Basalt	Un- determined	Total
Primary	0.0 <= x < 0.50	28	16	44	11	2	57
Shadhadareda sad	0.50 <= x < 1.0	19	7	26	11	11	48
	1.0 <= x < 2.0	22	19	41	27	5	73
	2.0 <= x < 5.0	117	49	166	59	17	242
	x >= 5.0	45	16	61	64	12	137
Primary Total		231	107	338	172	47	557
Supplemental	0.0 <= x < 0.50	8	6	14	4	1	19
	0.50 <= x < 1.0	5	2	7			7
	1.0 <= x < 2.0	3	1	4	6		10
	2.0 <= x < 5.0	14	5	19	6	4	29
	x >= 5.0	10	6	16	10		26
Supplemental To	otal	40	20	60	26	5	91
Grand Total		271	127	398	198	52	648

Table 3 Count of water rights by aguifer type for Middle and Lower Umatilla Basin

	Alluvial	Shallow Basalt	Total Unconfined	Deep Basalt	Combined Source	Un- determined	Total
Total	263	115	378	204	23	23	628

Use Class	Miles from Umatilla River	Alluvial	Shallow Basalt	Total Unconfined	Deep Basalt	Combined Source	Un- determined	Total
Primary	$0.0 \le x < 0.50$	25	16	41	10		2	53
	$0.50 \le x \le 1.0$	21	5	26	11	1	4	42
	$1.0 \le x \le 2.0$	24	13	37	20	4	3	64
	$2.0 \le x \le 5.0$	86	44	130	58	13	8	209
	5.0 <= x	53	16	69	69	2	3	143
Primary Total		209	94	303	168	20	20	511
Supplemental	$0.0 \le x \le 0.50$	11	5	16	6		1	23
	$0.50 \le x \le 1.0$	7	4	11				11
	$1.0 \le x \le 2.0$	3	1	4	8	1		13
	2.0 <= x < 5.0	21	5	26	8		2	36
	5.0 <= x	12	6	18	14	2		34
Supplemental T	otal	54	21	75	36	3	3	117
Grand Total		263	115	378	204	23	23	628

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Table 5 Combined instantaneous flow rate (CFS) based on water right permit limit and distance from Umatilla River and aquifer type for Middle and Lower Umatilla Basin valid for the date of June 1st

Use Category	Miles from Umatilla River	Alluvial	Shallow Basalt	Total Unconfined	Deep Basalt	Un- determined	Total (CFS)
Non-Irrigation	0.0 <= x < 0.50	8.95	0.26	9.21	6.21		15.43
	0.50 <= x < 1.0	0.51	0.60	1.11	11.17		12.28
	1.0 <= x < 2.0	11.04	1.69	12.73	21.37	0.87	34.98
	2.0 <= x < 5.0	2.36	3.78	6.14	9.88	0.45	16.47
	5.0 <= x	1.93	1.12	3.05	10.52	0.45	14.01
Non-Irrigation	Total	24.80	7.45	32.25	59.15	1.77	93.16

Table 6 Irrigated acres and distance from Umatilla River and aquifer type for combined PODs in the Lower and Middle Umatilla Basin

Use Class	Miles from Umatilla River	Alluvial	Shallow Basalt	Total Unconfined	Deep Basalt	Un determined	Total (ac)
Primary	$0.0 \le x \le 0.50$	696	244	940	125	25	1,091
	$0.50 \le x \le 1.0$	1,109	104	1,213	81	33	1,328
	1.0 <= x < 2.0	1,501	311	1,812	1,654	517	3,985
	$2.0 \le x \le 5.0$	4,262	943	5,205	6,953	1,343	13,502
	5.0 <= x	3,737	519	4,256	24,756	5	29,018
Primary Total		11,307	2,123	13,340	33,571	1,924	48,926
Supplemental	$0.0 \le x \le 0.50$	1,078	255	1,333	1,326	35	2,695
	$0.50 \le x \le 1.0$	753	204	957	440	19	1,418
	1.0 <= x < 2.0	1,308	48.	1,356	2,552	58	3,968
	$2.0 \le x \le 5.0$	8,695	328	9,023	9,149	166	18,338
	5.0 <= x	6,352	758	7,110	8,150	0	15,261
Supplemental Total		18,188	1,595	19,783	21,618	279	41,682
Grand Total		29,495	3,719	33,214	55,189	2,204	90,609

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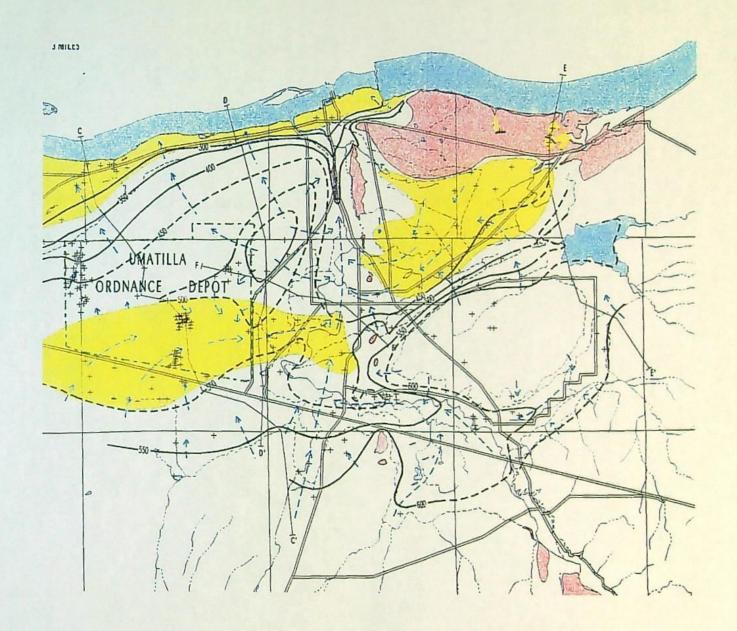


Exhibit 1 Ground water flow directions in the shallow unconfined alluvial aquifer in the Middle and Lower Umatilla Basin (Source: Grondin et al., 1995).

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### APPENDIX A

SUMMARY WATER RIGHT TABLES FOR ENTIRE UMATILLA BASIN (EXCLUDING WALLA WALLA AND WILLOW CREEK SUB-BASINS)

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Note: These tables are for the Umatilla Basin, excluding Willow Creek and the Walla Walla sub-basins.

Table 7 PODs by aquifer type for Umatilla Basin.

	Alluvial	Shallow Basalt	Deep Basalt	Undetermined	Grand Total
Total	277	234	461	85	1057

Table 8 Count of PODs by aguifer type, distance from Umatilla River, and use class for Umatilla Basin.

Use Class	Miles from Umatilla River	Alluvial	Shallow Basalt	Deep Basalt	Undetermined	<b>Grand Total</b>
Primary	0.0 <= x < 0.50	30	42	35	9	116
	0.50 <= x < 1.0	19	14	28	12	73
	1.0 <= x < 2.0	22	22	40	8	92
	2.0 <= x < 5.0	119	66	117	31	333
	x >= 5.0	47	50	192	19	308
Primary Total		237	194	412	79	922
Supplemental	0.0 <= x < 0.50	8	11	7	2	28
	0.50 <= x < 1.0	5	2	2		9
	1.0 <= x < 2.0	3	2	7		12
	2.0 <= x < 5.0	14	12	9	4	39
	x >= 5.0	10	13	24		47
Supplemental Total		40	40	49	6	135
<b>Grand Total</b>		277	234	461	85	1057

Table 9 Count of water rights by aquifer type for Umatilla Basin.

	Alluvial	Shallow Basalt	Deep Basalt	Combined Source	Undetermined	<b>Grand Total</b>
Total	270	217	506	29	47	1069

Table 10 Count of water rights by use class, distance from Umatilla River and aguifer type for entire Umatilla Basin.

Use Class	Miles from Umatilla River	Alluvial	Shallow Basalt	Deep Basalt	Combined Source	Undetermined	Grand Total
Primary	$0.0 \le x < 0.50$	27	42	40	Mary Land	7	116
	0.50 <= x < 1.0	21	11	27	2	4	65
	1.0 <= x < 2.0	24	16	31	4	4	79
	2.0 <= x < 5.0	88	58	117	15	21	299
	5.0 <= x	55	49	229	5	7	345
Primary Total		215	176	444	26	43	904
Supplemental	0.0 <= x < 0.50	11	10	9		2	32
	0.50 <= x < 1.0	7	4	2			13
	1.0 <= x < 2.0	3	2	9	1		15
	$2.0 \le x \le 5.0$	22	12	11		2	47
	5.0 <= x	12	13	31	2		58
Supplemental Total		55	41	62	3	4	165
Grand Total		270	217	506	29	47	1069

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Table 11 Combined instantaneous flow rate (CFS) based on water right permit limit and distance from Umatilla River

and aquifer type for Umatilla Basin valid for the date of June 1st

Use Category	Miles from Umatilla River	Alluvial	<b>Shallow Basalt</b>	Deep Basalt	Undetermined	Total (CFS)
	0.0 <= x < 0.50	9.06	2.33	41.26	0.19	52.85
	0.50 <= x < 1.0	0.51	0.60	16.48	0.00	17.59
	1.0 <= x < 2.0	11.04	1.69	48.07	0.87	61.68
	2.0 <= x < 5.0	2.36	3.84	10.08	0.45	16.73
	5.0 <= x	2.11	2.10	28.52	0.45	33.17
Non-Irrigation Total		25.09	10.56	144.41	1.96	182.02

Table 12 Irrigated acres by use class, distance from Umatilla River and aquifer type for the PODs in the Umatilla Basin.

Use Class	Miles from Umatilla River	Alluvial	Shallow Basalt	Deep Basalt	Undetermined	Total (ac)
Primary	0.0 <= x < 0.50	699	426	236	60	1,422
	0.50 <= x < 1.0	1,109	225	234	42	1,611
	1.0 <= x < 2.0	1,501	397	2,433	521	4,853
	2.0 <= x < 5.0	4,276	1,470	9,871	1,388	17,006
	5.0 <= x	4,187	1,766	37,753	274	43,982
Primary Total	Primary Total			50,529	2,287	68,876
Supplemental	0.0 <= x < 0.50	1,078	339	1,343	36	2,797
	0.50 <= x < 1.0	753	229	496	19	1,499
	1.0 <= x < 2.0	1,308	98	2,629	59	4,095
	2.0 <= x < 5.0	8,697	415	10,134	166	19,413
5.0 <= x		6,352	1,123	16,853	60	24,388
Supplemental Total	18,190	2,205	31,455	341	52,193	
Grand Total	29,964	6,490	81,985	2,629	121,069	

Note: The total estimated primary ground water right acres on Table 12 for all aquifer types is 68,876 acres for primary rights and 52,193 acres for supplemental rights. This estimates compare well with Karl Wozniak's (2007) recent estimates of 96,260 acres for primary ground water rights and 78,692 acres for supplemental rights (shown on Wozniak's Table 1). We did not include the Willow Creek sub-basin and areas along the Columbia River, which is why our ground water right acreage estimate is *smaller* than Mr. Wozniak's 2007 estimate.

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# APPENDIX B WATER RIGHTS SUMMARY INFORMATION

(Information provided electronically in attached file "Appendix B.xls")

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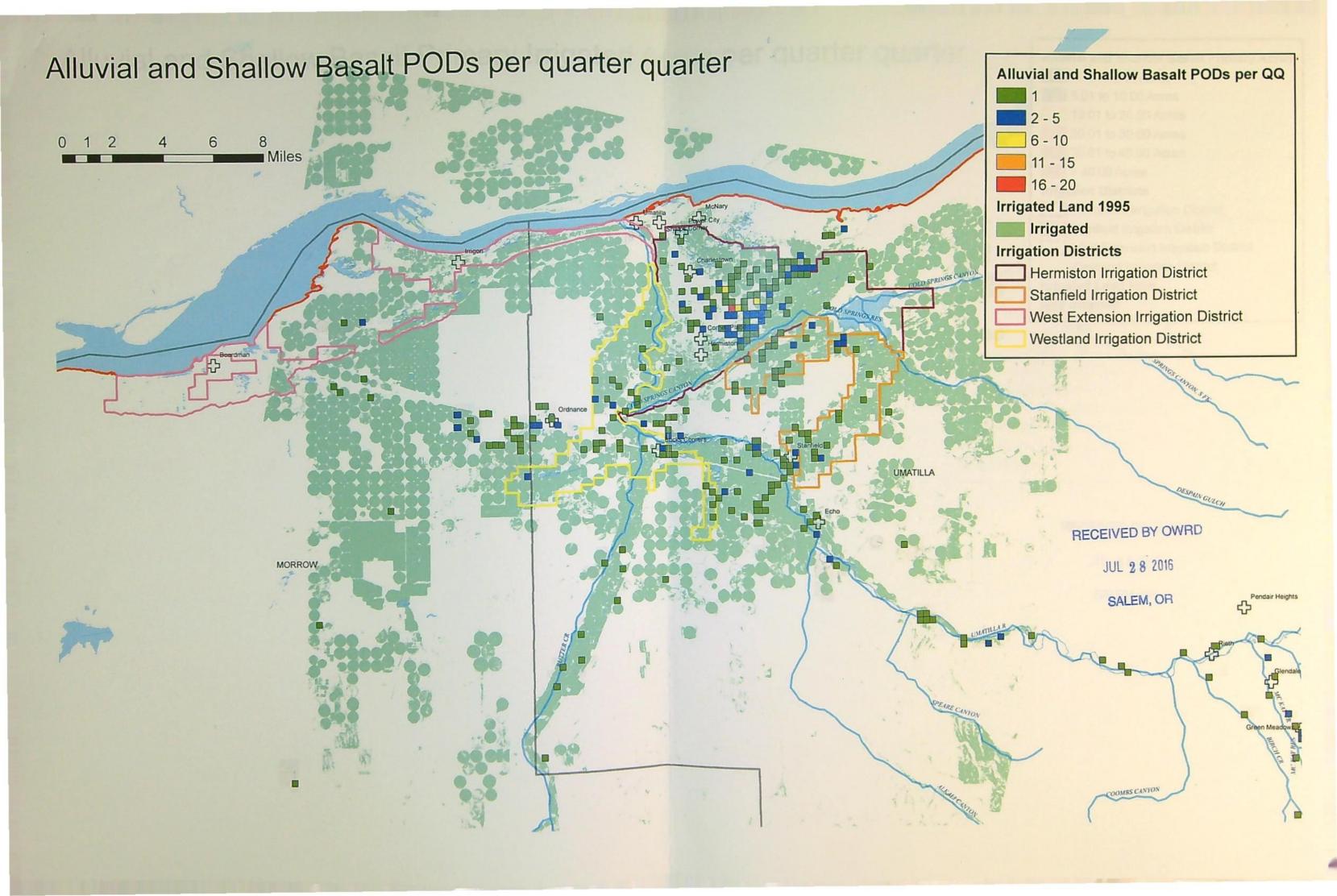
# APPENDIX C

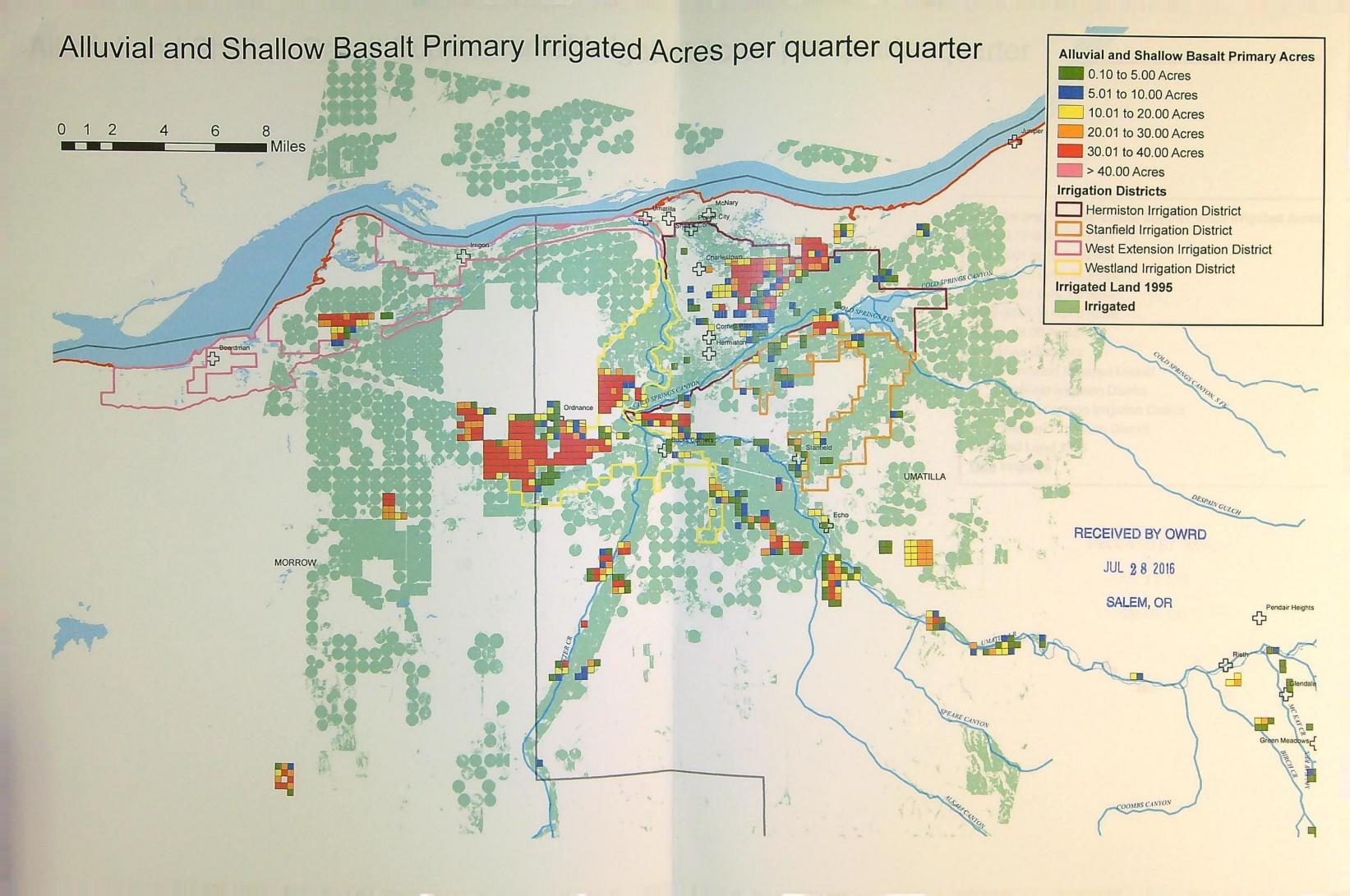
# OWRD LIST OF GROUND WATER RIGHTS THAT ARE ADMINISTERED AS HYDRAULICALLY-CONNECTED WELLS IN THE UMATILLA BASIN

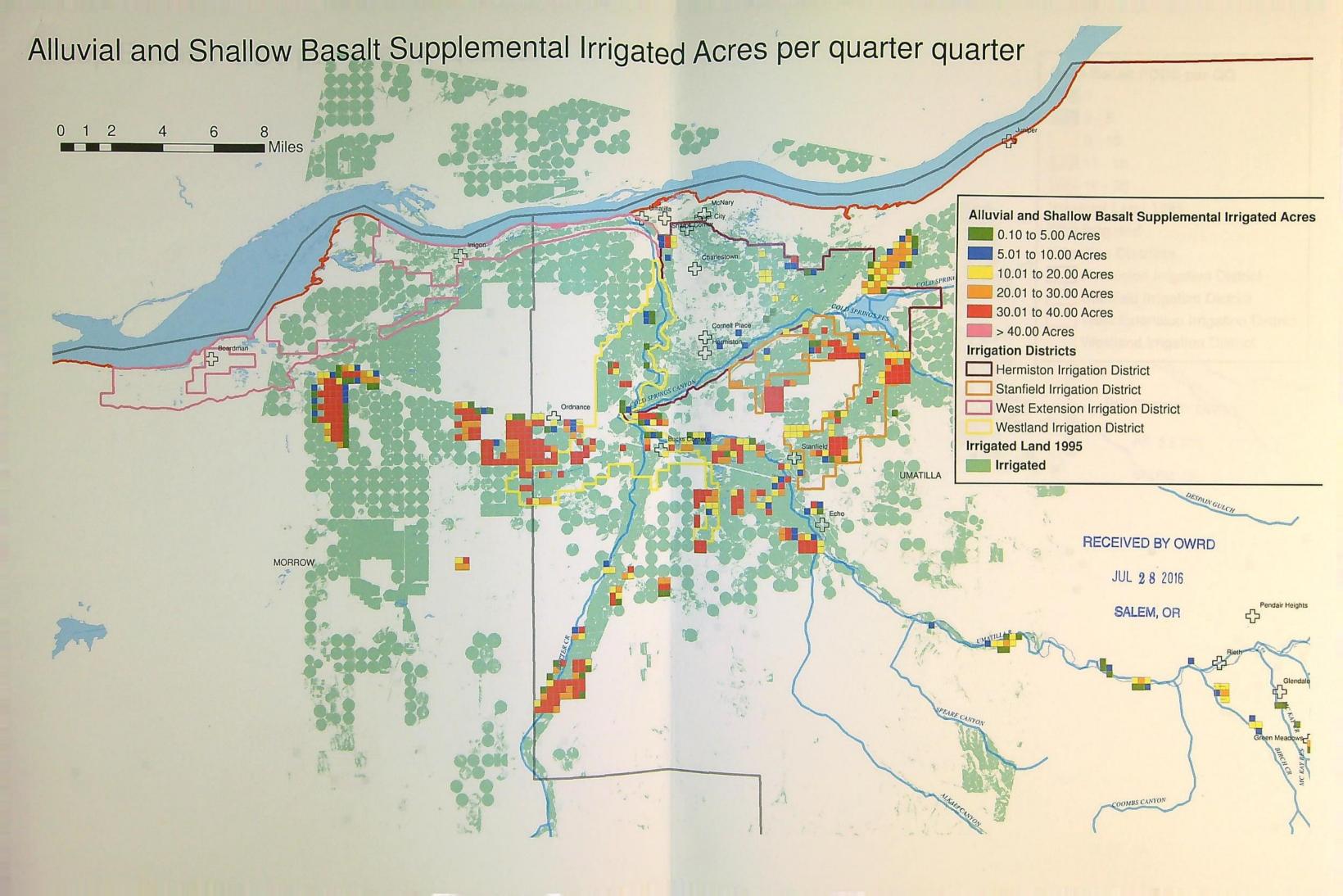
(List received from Mike Ladd, OWRD, Pendleton)

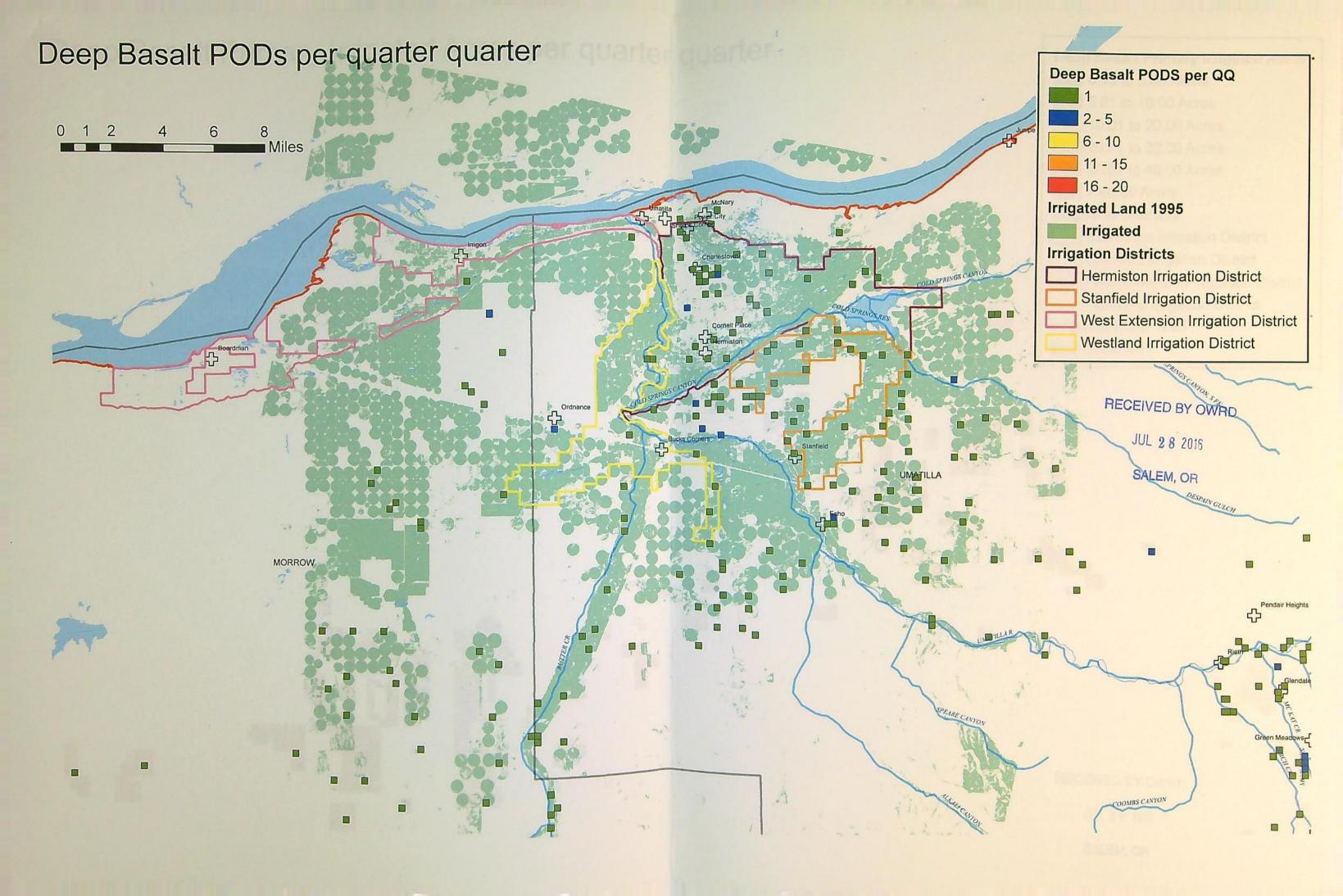
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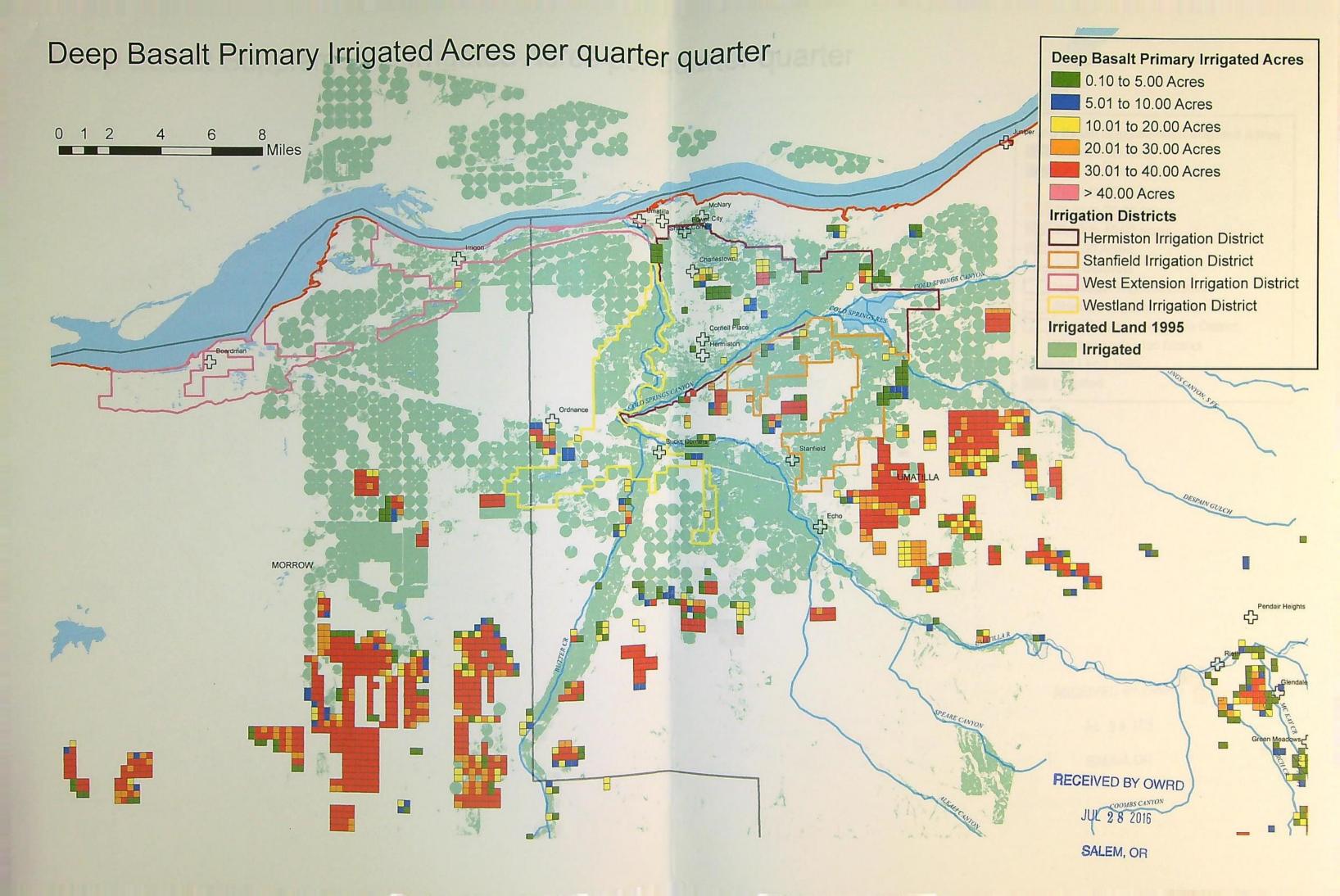
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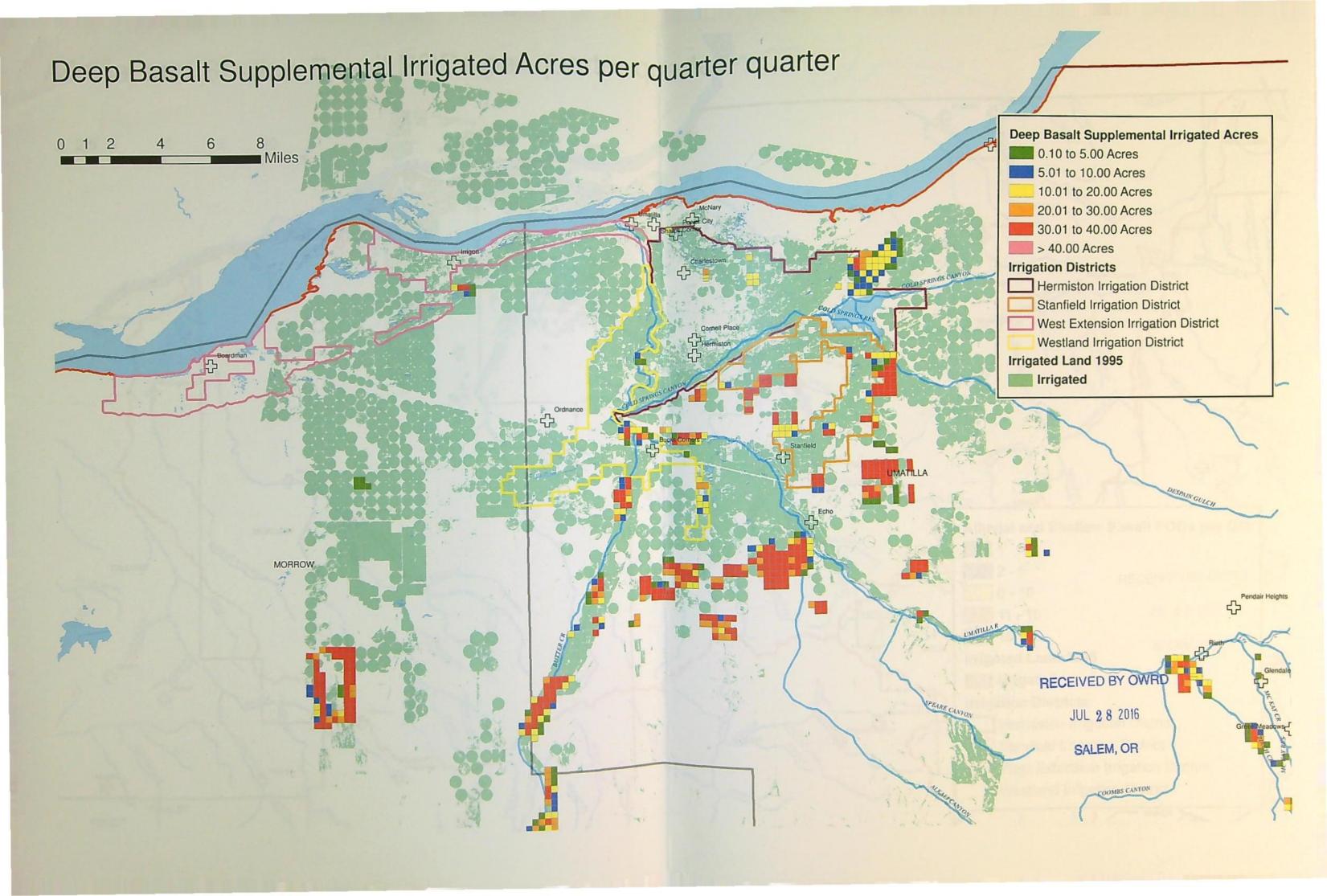


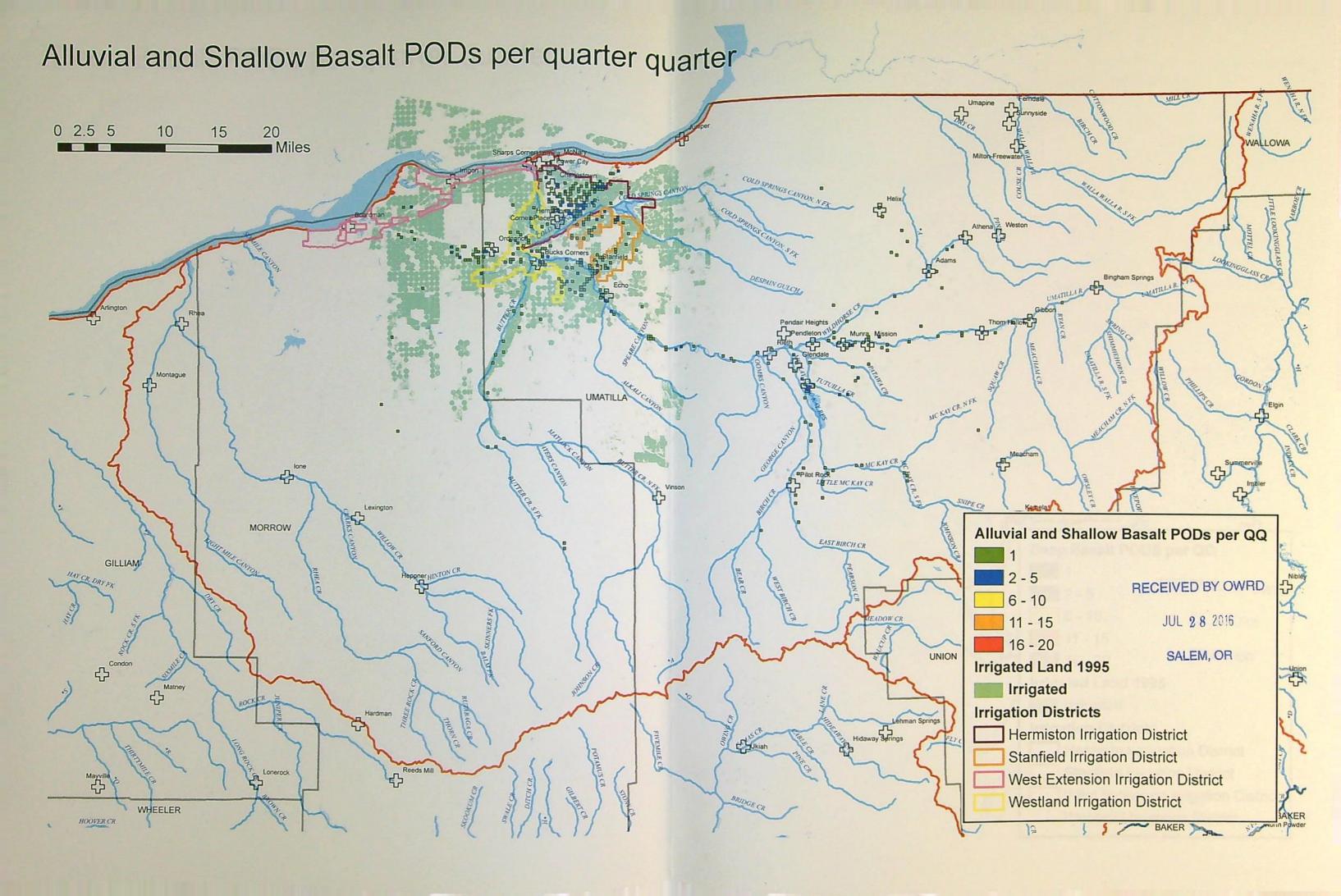


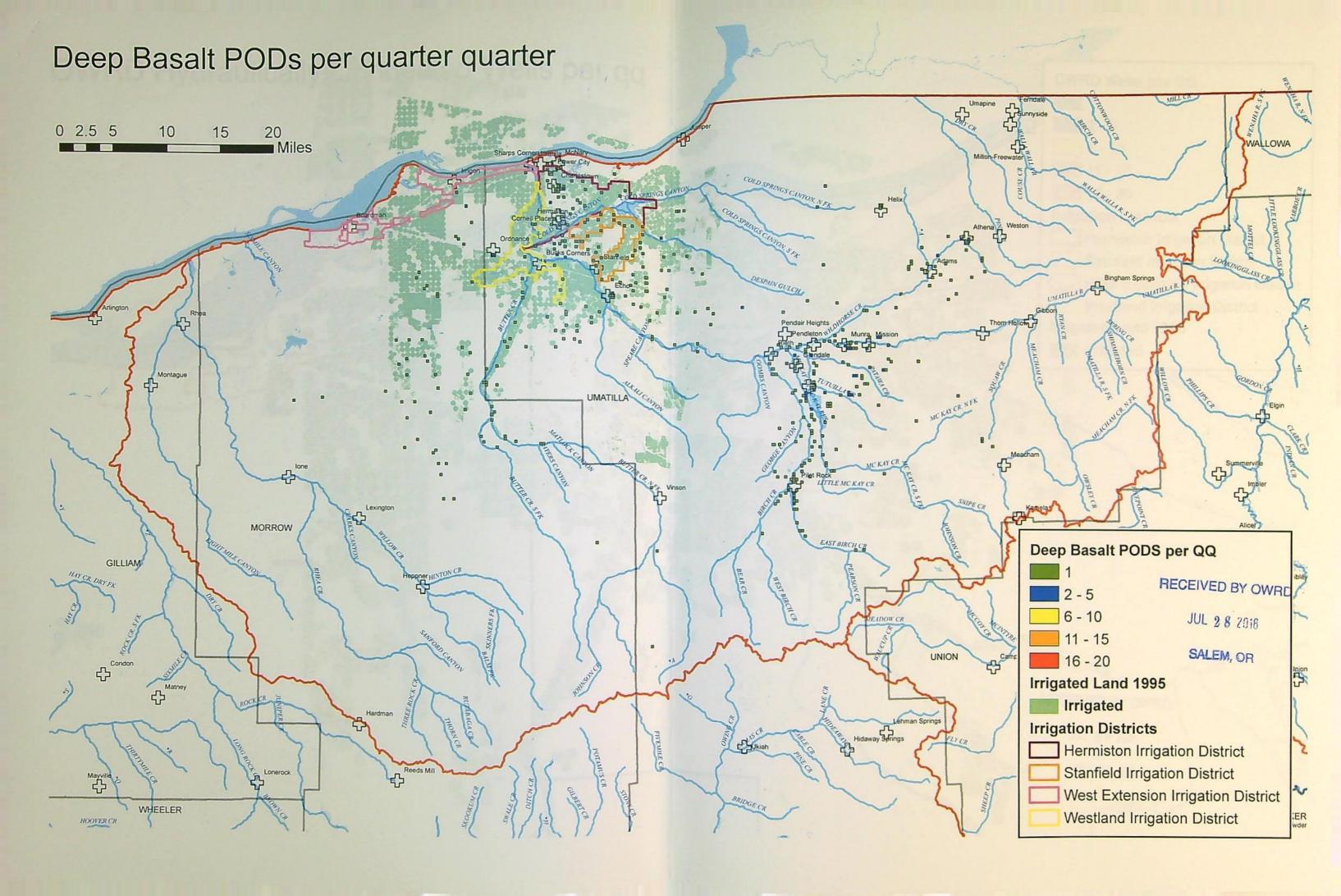


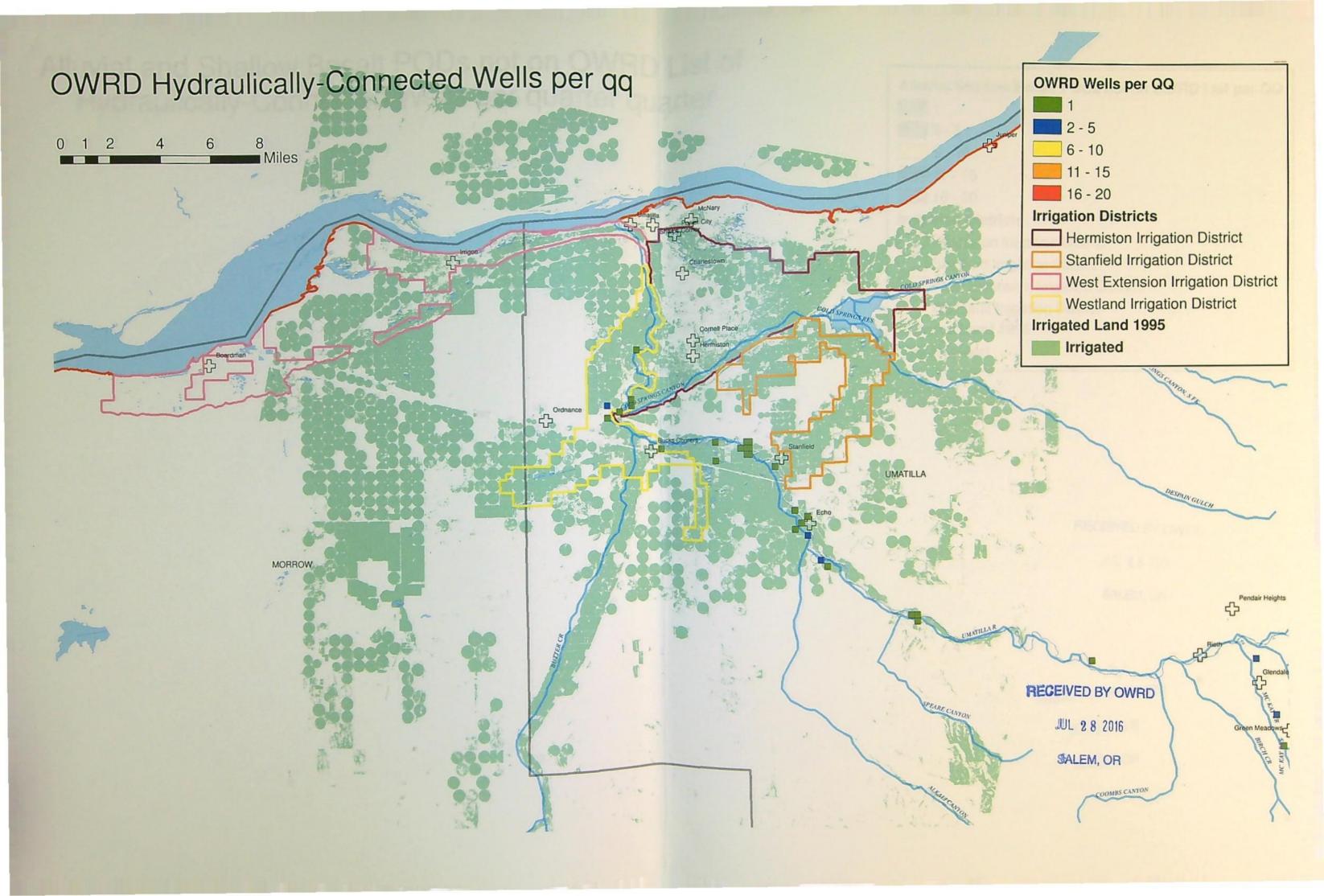


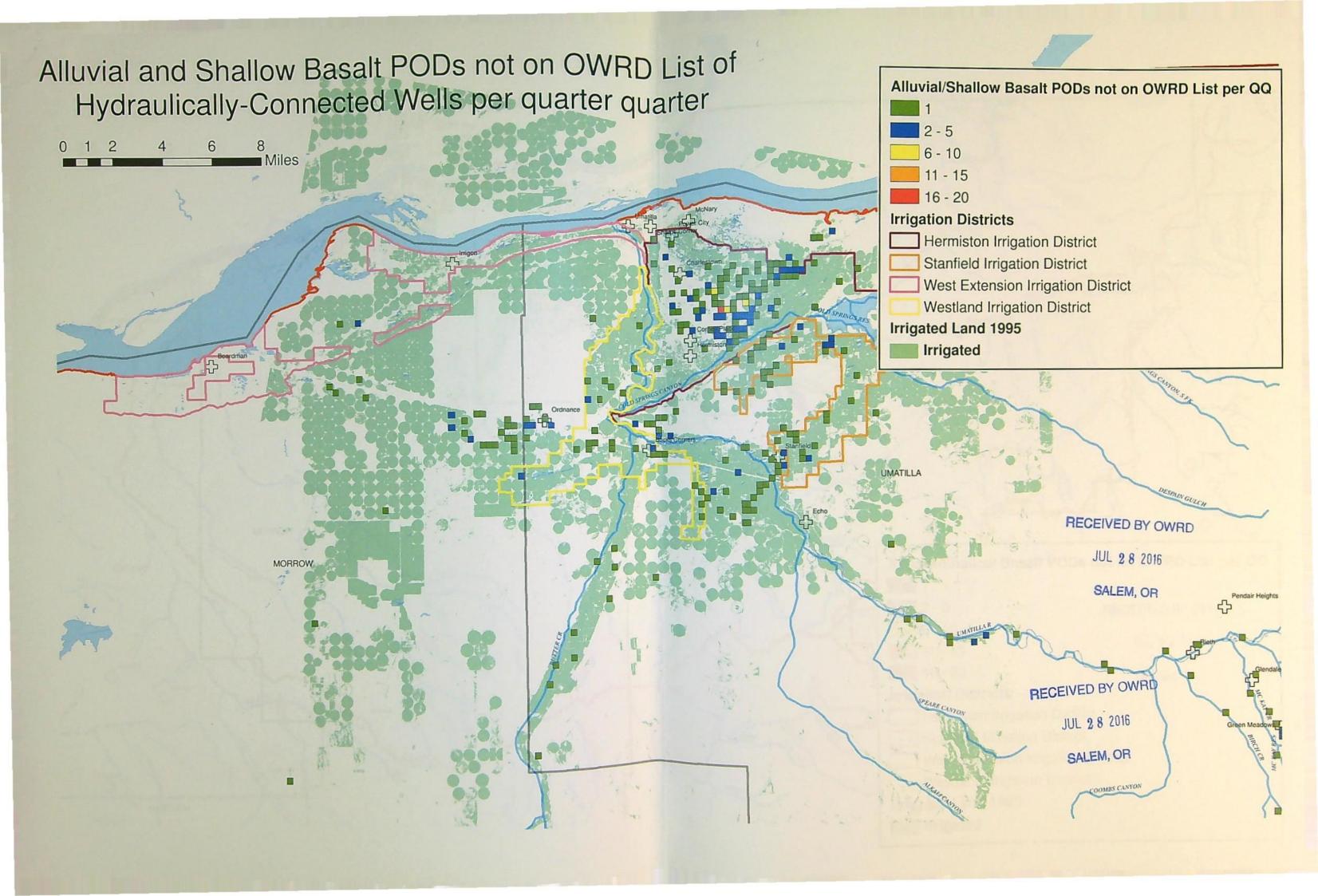












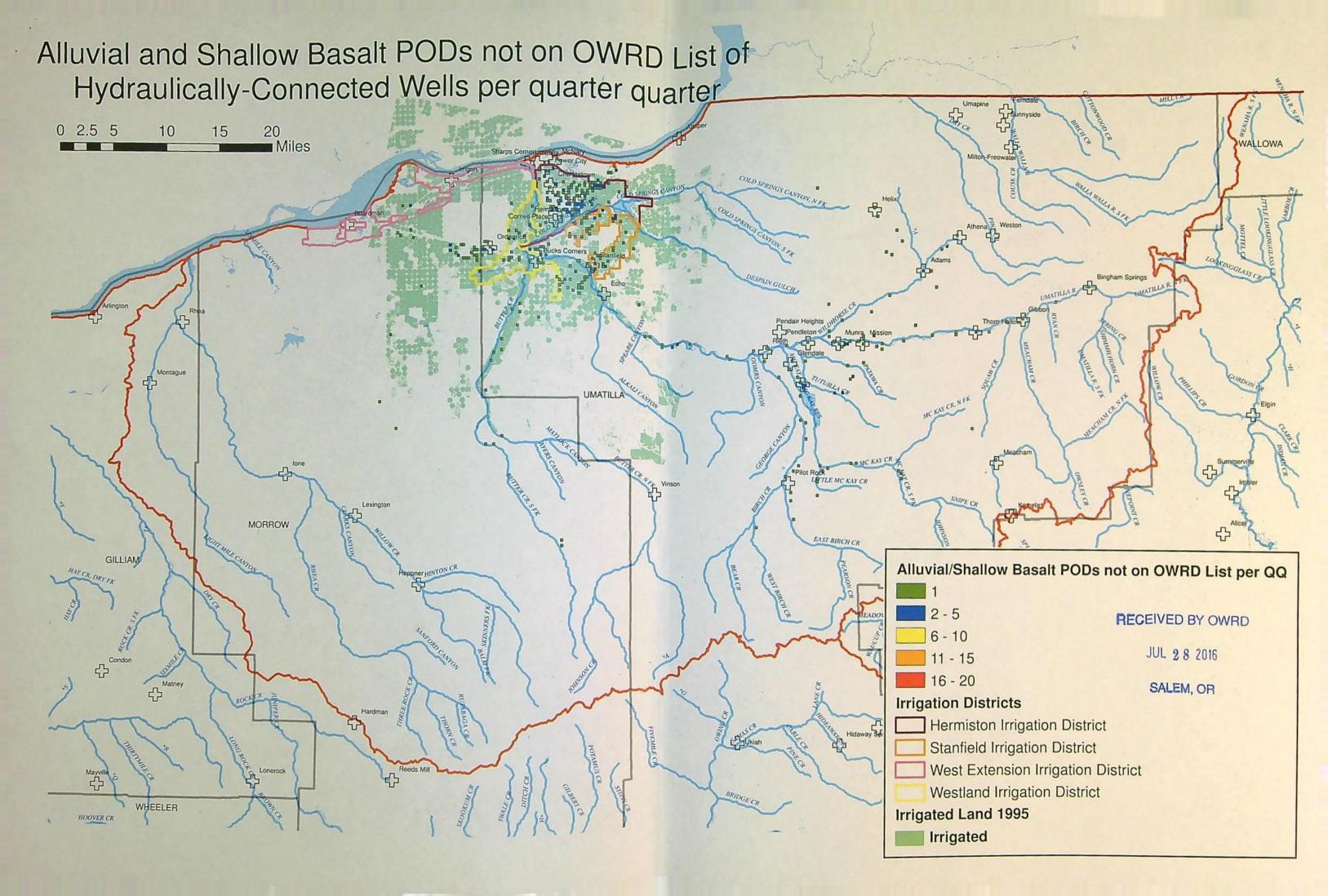


Exhibit 4

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Pacwest Center, 1211 SW 5th Ave., Suite 1900, Portland, OR 97204 | Phone 503.222.9981 | Fax 503.796.2900 | www.schwabe.com

DOUGLAS W. MACDOUGAL Admitted in Oregon, Washington and Hawaii Direct Line: 503-796-2943 E-Mail: dmacdougal@schwabe.com

August 21, 2009

Mr. Phil Ward Director Oregon Water Resources Department 725 Summer Street, NE, Suite A Salem, OR 97301-1271 JUL 28 73

Re: West Extension Irrigation District Ground Water Concerns

Dear Phil:

On behalf of West Extension Irrigation District (WEID), we are forwarding for OWRD's review and information a technical memorandum dated August 12, 2009 prepared by GSI Water Solutions, Inc. It regards the impact on the Umatilla River of the use of water from certain alluvial wells in the Umatilla River basin that OWRD does not currently conjunctively manage.

WEID is concerned that some groundwater withdrawals from shallow, alluvial wells close to the Umatilla River are not being conjunctively managed by OWRD even though the agency's administrative rules provide OWRD with the authority to do so. These wells, many with junior water rights, reduce surface water flow in the Umatilla River. Altogether, the combined diversion of water under these rights has a cumulative impact on Umatilla River flows. The net effect of these withdrawals is the continued depletion of the river to the prejudice of senior rights, including those of WEID.

In February of 2008, WEID forwarded to the Department a draft report prepared by John Koreny of HDR, Inc. on the groundwater rights in the Umatilla Basin. That report vividly depicted the dense population of groundwater wells in the lower Umatilla Basin. Only a small handful of those wells are currently the subject of conjunctive regulation by OWRD. The overwhelming majority are not conjunctively managed, evidently because, considered individually, OWRD has not deemed them eligible for regulation under Division 9 of Chapter 690 of the Oregon Administrative Rules. Yet their *cumulative* impact on the river is undoubtedly profound. Moreover, even considered individually, OWRD's Division 9 analysis of these wells is more than a decade old. Better information on key groundwater parameters is now available. The use of conservative parameters and application of some limiting assumptions have for years excluded many wells that are appropriate for Division 9 regulation. The GSI report, which investigated only a small sample of close-in alluvial wells, shows this to be the case.

Mr. Phil Ward August 21, 2009 Page 2

For its analysis, GSI picked wells that are less than one mile from Umatilla River and draw water from the alluvial aquifer. Using the Jenkins model, and updated but still-conservative parameters for hydraulic connectivity, storage coefficient and saturated aquifer thickness, the wells selected by GSI all show the potential for substantial interference (PSI) as defined by Division 9. The analysis also shows that regulation of those wells would afford effective and timely relief for surface water rights, such as those held by WEID. But for years OWRD has not conjunctively managed these wells.

How did this happen? In the 1990s, OWRD evidently used the Jenkins model referred to in Division 9 to create a list of wells that it would and would not conjunctively manage near the Umatilla River. But OWRD's unique application of the Division 9 tests arbitrarily limited the number of wells that OWRD could otherwise conjunctively manage. It appears that this analysis has not since been reopened or updated to reflect both better science and the realities of the basin. These (and many other) wells remain unregulated for the benefit of senior surface water rights. The unfortunate result is the annual depletion of the Umatilla River flows by junior groundwater users.

WEID's view is that the department should critically reexamine the effect of the alluvial wells proximate to the Umatilla River, taking particular care to evaluate the cumulative effect of the withdrawals. We urge the department to look at the GSI report as an example of a fresh view of the problem.

While the wells identified in the GSI report show clear need for conjunctive management, the larger issue, again, suggested in both GSI and HDR reports, is that of the cumulative impact of the many wells near the river. These wells collectively have the potential for substantial interference with the Umatilla River flows in a way that no individual well has. WEID suggests that OWRD examine the cumulative adverse impacts of these wells with particular attention. Division 9 provides clear guidance to OWRD to consider cumulative adverse impacts on streamflow or surface water supply as a factor in determining the potential for substantial interference. See OAR 690-009-0040(5)(e).

WEID and its consultants welcome the opportunity to meet with OWRD to further discuss these findings and to assist in answering any questions the Department may have, either with respect to the GSI report or the HDR report.

We appreciate your consideration of these matters.

Very truly yours,

Douglas W. MacDouga

DWM:njm Enclosure

cc: West Extension Irrigation District (w/encl)

Adam P. Sussman (w/encl) John Koreny (w/encl) RECEIVED BY OWRD

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Exhibit 5

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Technical Memorandum

August 12, 2009

TO:

Bev Bridgewater, West Extension Irrigation District

Douglas MacDougal, Schwabe Williamson & Wyatt

FROM:

Adam Sussman, GSI Water Solutions, Inc. Ted Ressler, GSI Water Solutions, Inc.

## Introduction

GSI Water Solutions, Inc. (GSI) developed this technical memorandum at the request of West Extension Irrigation District (WEID) in an effort to identify groundwater rights that should be conjunctively managed in favor of WEID's senior Umatilla River water rights. This technical memorandum identifies groundwater rights that have the potential for substantial interference with the Umatilla River, but that have not previously been conjunctively regulated by OWRD, and describes the process GSI used to identify these groundwater rights. To be clear, this is a small sample of the groundwater rights that OWRD should regulate in favor of WEID's senior surface water rights. This memo, in combination with the 2007 technical memorandum developed by John Koreny and provided to Oregon Water Resources Department (OWRD), make it clear that OWRD could do more to protect WEID's surface water rights.

# Background

In the 1990's, OWRD conducted an analysis of the groundwater rights within a mile of the Umatilla River to identify rights that should be conjunctively managed with surface water. We have learned from talking with OWRD staff that OWRD followed the process in OAR 690-009-0050 for determining whether groundwater rights should be regulated to protect senior surface water rights. This process directs OWRD to 1) determine whether the groundwater right would have the potential for substantial interference (PSI) with surface water, and 2) if OWRD finds PSI for wells greater than 500 feet from the surface water supply, to determine whether regulation of the groundwater use would provide relief to the surface water supply "in an effective and timely manner." The results of OWRD's analysis are provided in Attachment 1.

OWRD's analysis was a good first effort, but additional analysis is required for several reasons. First, OWRD's analysis to determine whether a specific groundwater right had PSI did not consider at least one element of this test, whether the rate of appropriation is greater than one percent of the discharge that is equaled or exceeded 80 percent of the time. Second, when

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determining timely relief, OWRD's analysis applied the criterion of stream depletion of 25 percent after 30 days, as demonstrated by stream depletion model developed by C.T. Jenkins (Jenkins Model). It is unclear whether this criterion should be used for determining timely relief, particularly since WEID often needs to make a "call" to satisfy its 1909 water rights by July 1 and WEID patrons need water through the end of October. Finally, OWRD's analysis did not consider the cumulative impacts of groundwater rights identified to have stream depletions of less than 25 percent after 30 days.

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In 2008, HDR Engineering, Inc. developed a technical memorandum for WEID that provided an inventory of groundwater rights in the Umatilla Basin. In that report, registered geologist John Koreny concluded that there were numerous groundwater rights in the alluvial and shallow basalt aquifers adjacent to the Umatilla River, and estimated the annual consumptive use of water under these rights at 60,000 acre-feet. The HDR report provided a "Water Rights Summary" of the existing groundwater rights and wells. (See Koreny's Appendix B provided electronically.) The groundwater rights/wells were divided into categories according to whether they appeared to develop water from an alluvial or basalt aquifer, and the distance from the well to the Umatilla River. (See Appendix C of Koreny's memo.) WEID submitted the Koreny memo to OWRD with a cover letter dated February 22, 2008. The letter requested OWRD to make additional efforts to protect WEID's senior surface water rights from reduced stream flows caused by the use of junior groundwater rights hydraulically connected to the Umatilla River. To date, OWRD has not responded to WEID's letter, or the request contained therein, and has made no additional effort to protect WEID's senior surface water rights.

# Review and Selection Process

GSI began its analysis of existing groundwater rights in the area of WEID's point of diversion on the Umatilla River, by reviewing the groundwater rights identified in Appendix B of Koreny's technical memo. Second, we eliminated all wells that Koreny determined to be greater than one mile from the Umatilla River, since OWRD will not regulate water rights associated with such wells, except through a critical groundwater area designation. Next, for the purposes of this analysis, we excluded wells in the basalt aquifer, a confined aquifer (as determined by OWRD), and wells associated with supplemental irrigation water rights. We compared the resulting list of "alluvial wells" within one mile of the river to the list of groundwater rights that we understand OWRD to manage conjunctively with Umatilla River surface water rights. (See Appendix C of Koreny's memo.)

We then identified groundwater rights not currently managed conjunctively that would have the potential for substantial interference with the Umatilla River under OAR 690-009-0040(4)(c). To do this, we reviewed the rights associated with wells less than one mile from the Umatilla River to determine whether the rates of appropriation were greater than one percent of the river discharge that is equaled or exceeded 80 percent of the time. Again, this is the portion of the PSI determination that OWRD failed to conduct during its 1990s review of these groundwater rights. GSI took a very conservative approach by comparing the maximum authorized rates of appropriation to the natural streamflow in August in the Umatilla River at the mouth (48.10 cfs), as reported by OWRD's water availability report. Table 1 identifies the rights that were determined to have PSI under this analysis, but that were not included in OWRD's list of groundwater rights with PSI. This is important because these rights should be regulated in favor of WEID's senior surface water right if regulation would provide WEID with effective and timely relief.

Table 1. Groundwater Rights within 1 mile of Umatilla River with rates exceeding 0.481 cfs (1

percent of discharge that is equaled or exceeded 80 percent of the time)

Permit#	Max. Rate (cfs)	Distance from Umatilla R. (per HDR) (miles)	Permit Holder
G-4972	1.0	0.211	Lane Pollock
G-2592	2.22	0.986	Thomas Huddleston
G-3851	2.11	0.609	Lawrence Pedro
G-4006	2.46	0.599	Malcolm Skinner
G-1675	1.05	0.842	Robert Blanc
G-4337	1.15	0.831	JB Land LLC James Purswell
G-4944	0.992	0.48	Ronald Baker
G-5045	0.82	0.831	JB Land LLC
Total	11.802		

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In addition to not determining PSI based on rate, OWRD's analysis of the existing groundwater rights excluded from conjunctive management those rights that did not show stream depletion greater than 25 percent of the rate of appropriation within 30 days, according to the Jenkins Model. We are, however, not aware of any requirement that OWRD must use a 25 percent depletion standard to determine effective and timely relief for senior surface water rights. Due to the cumulative impacts of multiple groundwater rights indirectly diverting water from the Umatilla River, regulation of multiple groundwater rights, all with impacts of less than 25 percent, could provide additional effective and timely relief to WEID. In addition, since WEID often needs to make a "call" to satisfy its 1909 water rights by July 1 and WEID patrons need water through the end of October (a period of 123 days), additional regulation of a groundwater right with estimated stream depletions based on *more than* 30 days of pumping could also provide relief to WEID's senior surface right in a timely and efficient manner.

For the eight groundwater rights determined to have the potential for substantial interference as shown in Table 1, GSI conducted an analysis similar to OWRD's original conjunctive management analysis to determine the percent of stream depletion after 30 days. Please note that although some of the model parameters may differ from those used by OWRD in their original analysis, the primary aquifer parameters of hydraulic conductivity, storage coefficient, and saturated aquifer thickness that GSI used in the Jenkins model are on the low end of the reported range suggested for the alluvial aquifer (Wozniak et al, 1995): hydraulic conductivity of 1,000-4,000 ft/day, storage coefficient of 0.15-0.25, and maximum saturated thickness of 40-100 feet. The aquifer hydraulic parameters we used in our analysis are provided in Table 2 below.

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Table 2. Jenkins model parameters

Parameter Description	Parameter Value	Data Source				
Pumping rate	Varies by well (see Table 3)	Maximum authorized rate of appropriation by water right				
Perpendicular distance from the well to the Umatilla River	Varies by well (see Table 3)	From HDR report				
Saturated thickness of the aquifer	Varies by well (22-59 feet)	State Water Well Reports and general aquifer water level of ~498 ft MSL (IRZ, 2006)				
Aquifer hydraulic conductivity	1000 ft/d	Wozniak et al. (1995)				
Aquifer storage coefficient	0.2	Wozniak et al. (1995)				
Duration of pumping	30 days	Duration of pumping used in OWRD's original analysis				

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The results of the Jenkins model for the selected water rights are provided in Table 3. As shown, the stream depletion for 4 of these groundwater rights significantly exceeds the original criterion established by OWRD (25% at 30 days) and in combination, the stream depletion for the remaining 4 groundwater rights total 65% depletion.

Although we realize there are limitations to the Jenkins model, these results indicate that groundwater pumping is likely having a larger effect on surface water flows of the Umatilla River than previously thought. As a result, there are probably many additional groundwater rights beyond those originally identified that have the potential for substantial interference with the Umatilla River, and should be conjunctively managed in favor of WEID's senior Umatilla River water rights.

Table 3. Jenkins model results for selected groundwater rights

Permit #	Max. Rate (cfs)	Distance from Umatilla R.	Permit Holder	% Stream Depletion
		(per HDR) (miles)		after 30 days
G-4972	1.0	0.211	Lane Pollock	75%
G-2592	2.22	0.986	Thomas Huddleston	13%
G-3851	2.11	0.609	Lawrence Pedro	42%
G-4006	2.46	0.599	Malcolm Skinner	40%
G-1675	1.05	0.842	Robert Blanc	19%
G-4337	1.15	0.831	JB Land LLC James Purswell	8.8%
G-4944	0.992	0.48	Ronald Baker	55%
G-5045	0.82	0.831	JB Land LLC	24.7%
Total	11.802			The state of the state of

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# References

IRZ, 2006. Conceptual Hydrogeology of Alluvial Aquifers and Echo Meadows Aquifer Recharge Activities. Umatilla Basin Regional Aquifer Recovery Assessment Task 1.A & 1.C.

Wozniak, et al. 1995. Hydrogeology, Groundwater Chemistry and Land Uses in the Lower Umatilla Basin Groundwater Management Area. Oregon Department of Environmental Quality, Oregon Water Resources Department, & Oregon Health Division. Page | 5

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COLD MINES

Appl. No.	Permit No.	Aquifer	Confined or	Distance to	Hydraulic	Pot for subst	Hydr. conn.	Pot for subst	Time for 25%
		type	Unconf.?	mainstem	Conn.	interference	determined/	interference	stream relief,
		(A=alluv	C/U/S	Umatilla	assumed?	assumed?	adj. reach?	determined?	in days (est.)
		B=basalt)	S=semi	(approx.)	040(2)	040(4 a - d)	040(1)	040(5)	050(2)(a)
G-7142	G-6592	А	U	1800 ft.	No	No	Yes	No	
G-7168	T-6416	A	C/S	650 ft.	No	No	No	No	and the second
G-7353	G-6781	А	U	12200 ft.	No	No	Yes	No	
G-7420	G-6877	А	U	730 ft:	Yes	Yes	(Yes)	(Yes)	≤7
G-7493	G-6969	В	С	1450 .ft.	No	No	No	No	
G-7728	G-7367	А	U	1540 ft.	No	Yes	Yes	(Yes)	≤26
G-7799	G-7231	В	C	2400 ft.	No	No	No	No	
G-7965	G-7399	A	U	270 ft.	Yes	Yes	(Yes)	(Yes)	N/A
G-8015	G-8470	А	U	2300 ft.	No	No	Yes	No	
G-8574	G-7913	А	U	4500 ft.	No	No	Yes	No	
G-8976	G-8369 #1	А	U	750 ft.	Yes	Yes	(Yes)	(Yes)	≤7
	G-8369 #2	A	U	1100 ft.	Yes	Yes	(Yes)	(Yes)	≤15
G-10648	G-9913	В	C	1230 ft.	No	No	No	No	
G-9760	G-9653	В	C	2800 ft.	No	No	No	No	
G-10864	G-10222	A	U	9700 ft.	No	No	Yes	No	
G-11032	G-10196	A	U	2800 ft.	No	No	Yes	No	
G-11077	G-10234	A	U	9300 ft.	No	· No	Yes	No	
G-11132	G-10305	A	U	2300 ft.	No	No	Yes	No	
G-11182	G-10292	A	U	10100 ft	No	No	Yes	No	
and the same of the same of the same of	G-11444 bel	low).		14900 ft/s2	No	No	Yes	No	
G-11350	G-10538	A	U	1200 ft.	Yes	Yes	(Yes)	(Yes)	≤16
G-11444	G-11148	A	U	10100 ft.	No	No	Yes	No	
G-11457	G-10664	A	U	2150 ft.	No	No	Yes	No	
G-11458	G-10709	A	U	650 ft/#1	Yes	Yes	(Yes)	(Yes)	≤5
				4700 ft./#2	No	No	Yes	No	
G-11891	G-10935	Α .	U	4550 ft.	No	No	Yes	No	
G-7380	G-6831	(same well)							
G-11294	G-10971	В .	C	1100 ft.	No	No	No	No	
G-12455	G-11435	В	C	950 ft.	No	No	No	No	

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Appl. No.	Permit No.	Aquifer	Confined or	Distance to	Hydraulic	Pot for subst	Hydr. conn.	Pot for subst	Time for 25%
		type	Unconf.?	mainstem	Conn.	interference	determined/	interference	stream relief,
		(A=alluv	C/U/S	McKay Cr.	assumed?	assumed?	adj. reach?	determined?	in days (est.)
		B=basalt)	S=semi	(approx.)	040(2)	040(4 a - d)	040(1)	040(5)	050(2)(a)
G-9245	G-8675	A.	U	520 ft./#1	Yes	Yes	(Yes)	(Yes)	≤5
		Α.	U	420 ft./#2	Yes	Yes	(Yes)	(Yes)	N/A
· No well	logs located,	but applicat	ion indicated	depths of .15 f	t (#1) and 2	5 ft. (#2).			
U-688	U-621	В	C/S	300 ft.	No	No	No	. No	
G-2244	G-2066	В	C/S	200 ft:	No	No	No	No	
G-11050	G-10209	Α.	U	240 ft./#1	Yes	Yes	(Yes)	(Yes)	N/A
		Α.	U	180 ft./#2	Yes	Yes	(Yes)	(Yes)	N/A
* No well	logs located.	but earlier re	eview by Grou	undwater staff i	ndicated hyd	raulic connect	ion. Wells rep	ported 14 ft. de	eep.
G-9350	G-8728	В	C/S	500 ft.	No	No	No	No	
G-481	G-394	A	U	275 ft.	Yes	Yes	(Yes)	(Yes)	N/A

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Appl. No.	Permit No.	Aguifer	Confined or	Distance to	Hydraulic	Pot for subst	Hydr. conn.	Pot for subst	Time for 25%
Appl. No.	i enime ivo.	type	Unconf.?	mainstem	Conn.	interference	determined/		stream relief,
		(A=alluv	C/U/S	Umatilla	assumed?	assumed?	adj. reach?	determined?	in days (est.)
		B=basalt)	S=semi	(approx.)	040(2)	040(4 a - d)	040(1)	040(5)	050(2)(a)
G-3074	G-2876	A	U	3600 ft.	No	No	Yes	No	
	G-2718	A.	C/S	1200 ft.	No	No	No	No	
		State of the Party		e from alluvium			Annual Control of Cont		ne.
	G-2560	В	C	2000 ft.	No	No	No	No	
	G-2501	A	U/S	1650 ft.	No	No	Yes	No	
	G-1977	A	U	5700 ft.	No	No	Yes	No	
	G-1729	A	U	2700 ft.	No	No	Yes	No	
	G-1675	A	U	2850 ft.	No	No	Yes	No	
G-1373	G-1293	A	U	1100 ft.	Yes	Yes	(Yes)	(Yes)	≤15
G-1176	G-1056	?*	?-	750 ft.	No*	No*	No*	No*	
*No well lo	g in files; no	information	on well in app	olication file. We	ell could dev	elop either bas	salt or alluvium	٦.	
G-1047	G-910	Α.	U	500 ft.	Yes	Yes	(Yes)	(Yes)	N/A
G-351	G-300	B*	C.	1900 ft.	No	No	No	No	
*Minimal in	formation on	well log, ho	wever, depth	and location in	dicate a bas	alt well is likely	у.		
	T-5847	A	U	300 ft.	Yes	Yes	(Yes)	(Yes)*	N/A
*Certificate	67233 confi	irms transfer	of right perf	ected under Pe	rmit G-10, a	nd also states		rill be with Um	atilla River.
G-42	G-44	А	U	2650 ft.	No	No	Yes	No	
U-492	U-444	A	U	850 ft.	Yes	Yes	(Yes)	(Yes)	≤9
U-471 .	U-427	В	C	1400 ft.	No	No	No	No	
U-320	U-291	A	U	450 ft.	Yes	Yes	(Yes)	(Yes)	N/A
U-207	U-187	В	С	1300 ft.	No	No	No	No	
U-206	U-186	В	С	1100 ft.	No	No	No	No	
GR-3899	GR-3542	A	U	600 ft.	Yes	Yes	(Yes)	(Yes)	≤5
G-7112	T-6532	A	U	12000 ft./#1	No	No	Yes	No	
				9600 ft./#2	No	No	Yes	No	
G-7125	G-6339	A	U	800 ft./#1	Yes	Yes	(Yes)	(Yes)	≤7
				1100 ft./#3	Yes	Yes	(Yes)	(Yes)	≤15
G-4427	G-4171	A	S	4450 ft.	No	No	Yes	No	

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# Mailing List for PFO Copies

Application #G-18131

PFO Date June 14, 2016

Original mailed via CERTIFIED MAIL to applicant:

WILLIAM L. AND LINDA WILSON PO BOX 505, STANFIELD, OR 97875 Copies Mailed
By: SP
(SUPPORT STAFF)
on: 10-14-16
(DATE)

SENT VIA EMAIL:

1. WRD - Watermaster # 5

Copies sent to:

1. WRD - File # G-18131 2.WRD - Regional : NCR Protest/ Standing Dates checked

Copies sent to Other Interested Persons (CWRE, Agent, Well Driller, Commenter, etc.)

 Bev Bridgewater, Manager, West Extension Irrigation District, PO Box 100, Irrigon, OR 97844-0100

CASEWORKER: Barbara Park

# Oregon Water Resources Department Water Right Services Division

Water Rights Application Number G-18131

Prior to the issuance of a permit, the Department must receive permit recording fees in the amount of \$450.00. Please include the application number on a check made out to the Oregon Water Resources Department.

# Proposed Final Order

Summary of Recommendation: The Department recommends that the attached draft permit be issued with conditions.

## Findings of Fact

- 1. On August 21, 2015, William L. and Linda Wilson submitted an application to the Department for the following water use permit:
  - Amount of Water: 0.037 cubic foot per second (CFS)
  - Use of Water: irrigation of 3.0 acres
  - Source of Water: Well 1 (UMAT 5551) in Hermiston Drain Basin
  - Area of Proposed Use: Umatilla County within Section 6, Township 4 North, Range 29 East, W.M.
- 2. On January 8, 2016, the Department mailed the applicant notice of its Initial Review, determining that "The appropriation of 0.037 CFS of water from Well 1 (UMAT 5551) in Hermiston Drain Basin for irrigation of 3.0 acres is allowable during the full period requested, March 1 through October 31 of each year." The applicant did not notify the Department to stop processing the application within 14 days of that date.
- 3. On January 12, 2016, the Department gave public notice of the application in its weekly notice. The public notice included a request for comments, and information for interested persons about obtaining future notices and a copy of the Proposed Final Order.

Within 30 days of the Department's public notice, written comments were received from Bev Bridgewater, Manager, West Extension Irrigation District, expressing concern for impact on senior water rights. The Department considered comments received, however its findings remain unchanged.

In reviewing applications, the Department may consider any relevant sources of information, including the following:

- any applicable basin program
- · applicable statutes, administrative rules, and case law
- the amount of water available
- · the rate and duty for the proposed use
- any general basin-wide standard for flow rate and duty of water allowed
- the need for a flow rate and duty higher than the general standard
- pending senior applications and existing water rights of record
- · any applicable comprehensive plan or zoning ordinance
- recommendations by other state agencies
- the Scenic Waterway requirements of ORS 390.835
- · designations of any critical groundwater areas
- any comments received
- 4. The Umatilla Basin Program allows irrigation (OAR 690-507-0070).
- 5. An assessment of groundwater availability has been completed by the Department's Groundwater/Hydrology section. A copy of this assessment is in the file. Groundwater will likely be available within the capacity of the resource, and if properly conditioned, the proposed use of groundwater will avoid injury to existing groundwater rights.
- 6. Groundwater Findings Under OAR 690-009

  The Department determined, consistent with OAR 690-009-0040(4), that the proposed groundwater use will not have the potential for substantial interference with surface water.

In making this determination, the Department considered whether:

- A. There is a hydraulic connection from the proposed well(s) to any surface water sources.
- B. The point of appropriation is a horizontal distance less than one-fourth mile from the surface water source;
- C. The rate of appropriation is greater than five cubic feet per second, if the point of appropriation is a horizontal distance less than one mile from the surface water source;
- D. The rate of appropriation is greater than one percent of the pertinent adopted minimum perennial streamflow or instream water right with a senior priority date, if one is applicable, or of the discharge that is equaled or exceeded 80 percent of time, as determined or estimated by the Department, and if the point of appropriation is a horizontal distance less than one mile from the surface water source;
- E. The groundwater appropriation, if continued for a period of 30 days, would result in stream depletion greater than 25 percent of the rate of appropriation, if the point of appropriation is a horizontal distance less than one mile from the surface water source.

According to the Department's rules, the potential for substantial interference is assumed if A and either B or C or D or E are met. For this application, the Department determined that there is no potential for substantial interference, because either A is not met, or B, C, D or E are not met, or both.

- 7. Well 1 (UMAT 5551) in Hermiston Drain Basin is not within or above a State Scenic Waterway.
- 8. The Department finds that the amount of water requested, 0.037 CFS, is an acceptable amount.
- Documentation has been submitted from the relevant land-use planning jurisdiction that indicates the proposed use is allowed outright.
- 10. The proposed groundwater use is not within a designated critical groundwater area.

#### Conclusions of Law

- 1. Under the provisions of ORS 537.621, the Department must presume that a proposed use will ensure the preservation of the public welfare, safety and health if the proposed use is allowed in the applicable basin program established pursuant to ORS 536.300 and 536.340 or given a preference under ORS 536.310(12), if water is available, if the proposed use will not injure other water rights and if the proposed use complies with rules of the Water Resources Commission.
- 2. The proposed use requested in this application is allowed in the Umatilla Basin Program.
- 3. Water is available for the proposed use.
- 4. The proposed use will not injure other water rights.
- 5. No proposed flow rate and duty of water higher than the general basin-wide standard is needed.
- 6. The application is in compliance with the State Agency Coordination Program regarding land use.
- 7. The proposed use complies with rules of the Water Resources Commission not otherwise described above.
- 8. For these reasons, the required presumption has been established.
- 9. Under the provisions of ORS 537.621, once the presumption has been established, it may be overcome by a preponderance of evidence that either:

- A. One or more of the criteria for establishing the presumption are not satisfied; or
- B. The proposed use would not ensure the preservation of the public welfare, safety and health as demonstrated in comments, in a protest . . . or in a finding of the department that shows:
  - a. The specific aspect of the public welfare, safety and health under ORS 537.525 that would be impaired or detrimentally affected; and
  - b. Specifically how the identified aspect of the public welfare, safety and health under ORS 537.525 would be impaired or be adversely affected.
- 10. In this application, all criteria for establishing the presumption have been satisfied, as noted above. The presumption has not been overcome by a preponderance of evidence that the proposed use would impair or be detrimental to the public interest.
- 11. The Department therefore concludes that the proposed use would ensure the preservation of the public welfare, safety and health as described in ORS 537.525.
- 12. When issuing permits, ORS 537.628(1) authorizes the Department to include limitations and conditions which have been determined necessary to protect the public welfare, safety, and health. The attached draft permit is conditioned accordingly.

#### Recommendation

The Department recommends that the attached draft permit be issued with conditions.

DATED June 14, 2016

E. Timothy Wall.

E. Timothy Wallin, Water Rights Program Manager for Thomas M. Byler, Director

#### Protests

Under the provisions of ORS 537.153(7) (for surface water) or ORS 537.621(8) (for groundwater), you can protest this Proposed Final Order. Protests must be received in the Water Resources Department no later than July 29, 2016. Protests must be in writing, and must include the following:

- Your name, address, and telephone number;
- A description of your interest in the Proposed Final Order, and, if you claim to represent the public interest, a precise statement of the public interest represented;
- A detailed description of how the action proposed in the Proposed Final Order would impair or be detrimental to your interest;
- A detailed description of how the Proposed Final Order is in error or deficient, and how to correct the alleged error or deficiency;
- Any citation of legal authority to support your protest, if known;
- To affect the department's determination that the proposed use in this application will, or will not, ensure the preservation of the public welfare, safety and health as described in ORS 537.525, ORS 537.621(2)(b) requires that a protest demonstrate, by a preponderance of evidence any of the following: (a) One or more of the criteria for establishing the presumption are, or are not, satisfied; or (b) The specific aspect of the public welfare, safety and health under ORS 537.525 that would be impaired or detrimentally affected, and specifically how the identified aspect of the public welfare, safety and health under ORS 537.525 would be impaired or be adversely affected;
- If you are the applicant, the protest fee of \$350 required by ORS 536.050; and
- If you are not the applicant, the protest fee of \$700 required by ORS 536.050 and proof of service of the protest upon the applicant.
- If you are the applicant, a statement of whether or not you are requesting a contested case hearing. If you do not request a hearing, the Department will presume that you do not wish to contest the findings of the Proposed Final Order.

## Requests for Standing

Under the provisions of ORS 537.153(7) (for surface water) or ORS 537.621(8) (for groundwater), persons other than the applicant who support a Proposed Final Order can request standing for purposes of participating in any contested case proceeding on the Proposed Final Order or for judicial review of a Final Order.

Requests for standing must be received in the Water Resources Department no later than July 29, 2016. Requests for standing must be in writing, and must include the following:

- The requester's name, mailing address and telephone number;
- If the requester is representing a group, association or other organization, the name, address and telephone number of the represented group;
- A statement that the requester supports the Proposed Final Order as issued;
- A detailed statement of how the requester would be harmed if the Proposed Final Order is modified; and
- A standing fee of \$200. If a hearing is scheduled, an additional fee of \$500 must be submitted along with a petition for party status.

After the protest period has ended, the Director will either issue a Final Order or schedule a contested case hearing. The contested case hearing will be scheduled only if a protest has been submitted and either:

- upon review of the issues, the director finds that there are significant disputes related to the proposed use of water, or
- the applicant requests a contested case hearing within 30 days after the close of the protest period.

If you do not request a hearing within 30 days after the close of the protest period, or if you withdraw a request for a hearing, notify the Department or the administrative law judge that you will not appear or fail to appear at a scheduled hearing, the Director may issue a Final Order by default. If the Director issues a Final Order by default, the Department designates the relevant portions of its files on this matter, including all materials that you have submitted relating to this matter, as the record for purpose of proving a prima facie case upon default.

You may be represented by an attorney at the hearing. Legal aid organizations may be able to assist a party with limited financial resources. Generally, partnerships, corporations, associations,

governmental subdivisions or public or private organizations are represented by an attorney. However, consistent with OAR 690-002-0020 and OAR 137-003-0555, an agency representative may represent a partnership, corporation, association, governmental subdivision or public or private organization if the Department determines that appearance of a person by an authorized representative will not hinder the orderly and timely development of the record in this case.

Notice Regarding Service Members: Active duty service members have a right to stay proceedings under the federal Service Members Civil Relief Act. 50 U.S.C. App. §§501-597b. You may contact the Oregon State Bar or the Oregon Military Department for more information. The toll-free telephone number for the Oregon State Bar is: 1 (800) 452-8260. The toll-free telephone number of the Oregon Military Department is: 1 (800) 452-7500. The Internet address for the United States Armed Forces Legal Assistance Legal Services Locator website is: http://legalassistance.law.af.mil

This document was prepared by Barbara Park. If you have any questions about any of the statements contained in this document I can be reached at 503-986-0859.

If you have questions about how to file a protest or a request for standing, please refer to the respective sections in this Proposed Final Order entitled "Protests" and "Requests for Standing". If you have previously filed a protest and want to know its status, please contact Patricia McCarty at 503-986-0820.

If you have other questions about the Department or any of its programs please contact our Customer Service Group at 503-986-0801. Address all other correspondence to:

Water Rights Section, Oregon Water Resources Department, 725 Summer St NE Ste A, Salem OR 97301-1266, Fax: 503-986-0901.

# COUNTY OF UMATILLA

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

WILLIAM L. AND LINDA WILSON PO BOX 505 STANFIELD, OR 97875

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-18131

SOURCE OF WATER: WELL 1 (UMAT 5551) IN HERMISTON DRAIN BASIN

PURPOSE OR USE: IRRIGATION OF 3.0 ACRES

MAXIMUM RATE: 0.037 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: AUGUST 21, 2015

WELL LOCATION: NW 1/4 SW 1/4 SECTION 6, T4N, R29E, W.M.; 980 FEET SOUTH AND 1370 FEET WEST FROM C1/4 CORNER, SECTION 6

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

NW 1/4 SW 1/4 3.0 ACRES SECTION 6 TOWNSHIP 4 NORTH, RANGE 29 EAST, W.M.

# Measurement devices, and recording/reporting of annual water use conditions:

The Director may require the permittee to install a totalizing flow meter at each point of appropriation. If the Director notifies the permittee to install a measuring device, the permittee shall install such device within the period stated in the notice. Once installed, the permittee shall maintain the device in good working order, and shall allow the watermaster access to the device.

- B. The Director may require the permittee to keep and maintain a record of the volume of water diverted, and may require the permittee to report water-use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water-use information, the periods of water use and the place and nature of use of water under the permit.
- C. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

#### Static Water Level Conditions

To monitor the effect of water use from the well(s) authorized under this permit, the Department requires the water user to obtain, from a qualified individual (see below), and report annual static water-level measurements. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

Measurements must be made according to the following schedule:

#### Before Use of Water Takes Place

Initial and Annual Static Water Level Measurements

The Department requires the permittee to report an initial waterlevel measurement in the month specified above once well construction is complete, and annually thereafter until use of water begins; and

#### After Use of Water has Begun

Seven Consecutive Annual Static Water Level Measurements

Following the first year of water use, the user shall report seven consecutive annual static water-level measurements. The first of these seven annual measurements will establish the reference level against which future annual measurements will be compared. Based on an analysis of the data collected, the Director may require the user to obtain and report additional annual static water-level measurements beyond the seven year minimum reporting period. The additional measurements may be required in a different month. If the measurement requirement is stopped, the Director may restart it at any time.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board and be submitted to

the Department on forms provided by the Department. The Department requires the individual performing the measurement to:

- A. Identify each well with its associated measurement;
- B. Measure and report water levels to the nearest tenth of a foot as depth-to-water below ground surface;
- C. Specify the method used to obtain each well measurement; and
- D. Certify the accuracy of all measurements and calculations reported to the Department.

The Department may require the discontinuance of groundwater use, or reduce the rate or volume of withdrawal, from the well(s) if any of the following events occur:

- A. Annual water-level measurements reveal an average water-level decline of three or more feet per year for five consecutive years; or
- B. Annual water-level measurements reveal a water-level decline of 15 or more feet in fewer than five consecutive years; or
- C. Annual water-level measurements reveal a water-level decline of 25 or more feet; or
- D. Hydraulic interference leads to a decline of 25 or more feet in any neighboring well with senior priority.

The period of non-use or restricted use shall continue until the water level rises above the decline level which triggered the action or until the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

Groundwater production shall occur only from the alluvial groundwater reservoir.

#### Well Identification Tag Condition

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

#### STANDARD CONDITIONS

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.

If substantial interference with surface water or a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The well(s) shall be constructed and maintained in accordance with the General Standards for the Construction and Maintenance of Water Supply Wells in Oregon. The works shall be equipped with a usable access port adequate to determine water-level elevation in the well at all times.

If the riparian area is disturbed in the process of developing a point of appropriation, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For purposes of mitigation, the ODFW Fish and Wildlife Habitat Mitigation Goals and Standards, OAR 635-415, shall be followed.

The use may be restricted if the quality of downstream waters decreases to the point that those waters no longer meet state or federal water quality standards due to reduced flows.

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.

Prior to receiving a certificate of water right, the permit holder shall submit to the Water Resources Department the results of a pump test meeting the Department's standards for each point of appropriation (well), unless an exemption has been obtained in writing under OAR 690-217. The Director may require water-level or pump-test data every ten years thereafter.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

Construction of the well shall be made within five years of the date of permit issuance. The deadline to begin construction may not be extended. This permit is subject to cancellation proceedings if the begin construction deadline is missed.

Complete application of the water shall be made within five years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

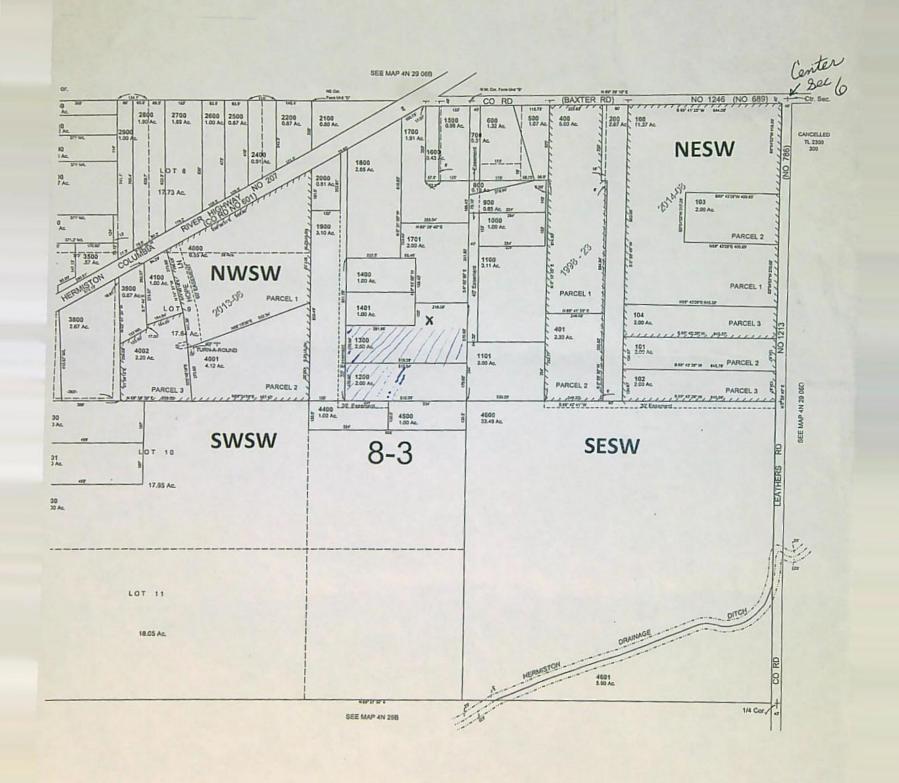
Within one year after making beneficial use of water, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued

DRAFT - THIS IS NOT A PERMIT

E. Timothy Wallin, Water Rights Program Manager for Thomas M. Byler, Director

# GROUND WATER APPLICATION IN THE NAME OF WILLIAM AND LINDA WILSON T4N, R29E, SEC 6, W.M., UMATILLA COUNTY



### LEGEND

PRIMARY IRRIGATION

3 ac NWSW Sec 6



AREA OF PROPOSED IRRIGATION UNDER THIS APPLICATION

SCALE 1"= 400'

# **LOCATION OF WELL**

WELL #1 (EXISTING) NW ¼ SW ¼, Section 6, 980' feet South and 1370' feet West from the Center of Section 6, T4N, R29E (W.M.)

X= Well #1

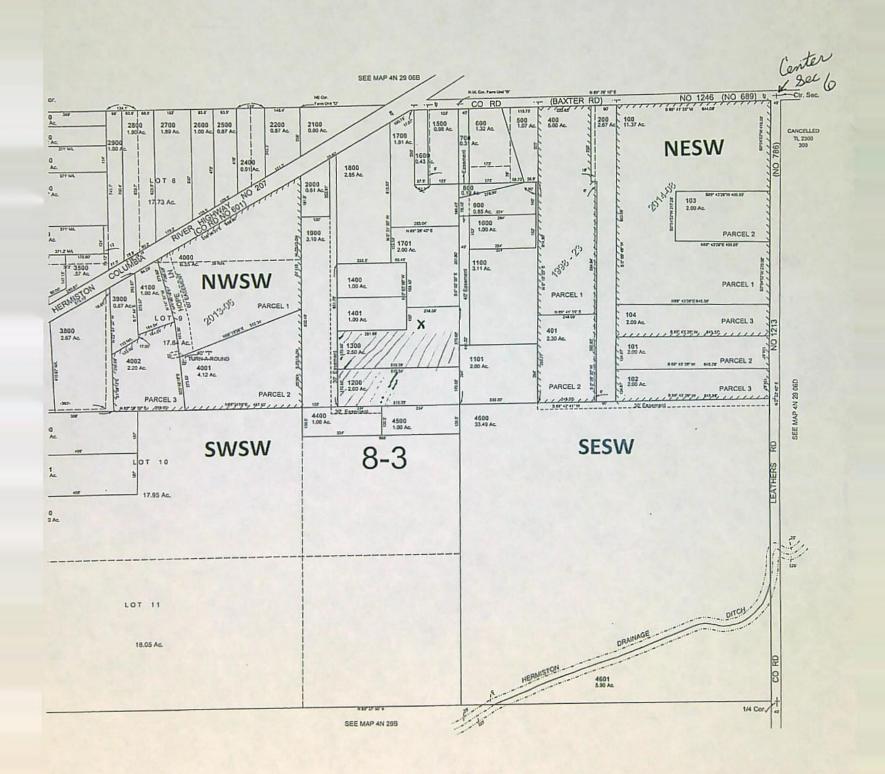
RECEIVED BY OWRD

AUG 21 2015

SALEM, OR



# GROUND WATER APPLICATION IN THE NAME OF WILLIAM AND LINDA WILSON T4N, R29E, SEC 6, W.M., UMATILLA COUNTY



#### LEGEND

PRIMARY IRRIGATION

3245 ac NWSW Sec 6



AREA OF PROPOSED IRRIGATION UNDER THIS APPLICATION

SCALE 1"= 400'

### LOCATION OF WELL

WELL #1 (EXISTING) NW ¼ SW ¼, Section 6, 980' feet South and 1370' feet West from the Center of Section 6, T4N, R29E (W.M.)

X= Well #1

RECEIVED BY OWRD

AUG 21 2015

SALEM, OR



# **PFO Checklist**

Application #: G-18131 Applicant: WILLIAM L. AND LINDA WILSON
IR requested add'l info No □ Yes
$\sqrt{IR \text{ date } 1/3/2016}$ Noticed on $1/12/2016$ Comment Deadline $2/11/2016$
Electronic written comments? □ No □Yes
Make specific finding in PFO if □ Rate/Limit higher-than-standard □ Duty higher-than-standard
Confirm POD/POU are correct per the map
Is second gw review necessary? □ NA □ No □ Yes Complete? □ No □ Yes Add'l fees □ necessary □ collected □ needed
DIV 9 NA will likely be available will not likely be available will, if properly conditioned
No PSI Table C4a NOT filled out  No PSI Table C4a filled out - Highest impact? Month?
□ PSI per 690-009-0040(4) □ PSI per 690-009-0040(5) well has PSI with
GW conditions <u>FC</u> + Special (allumal-see B2c)
Conditions
Small 0.1 CFS, ≥ 9.2 AF □ Medium > 0.1 CFS but < 0.25 CFS, > 9.2 AF but < 100 AF □ Large ≥ 0.25 CFS, ≥ 100 AF
SW availability NA 🗆 80% 🗆 50%
DIVISION 33 Q.MA □ No □ UPPER COLUMBIA (not allowed 4/15 - 9/30) □ LOWER COLUMBIA □ STATEWIDE
SWW MA above within If GW and interference, copy form for Shawn O-T.
Needed before permit
- Notes aeld Commenter to UL
veres commenter 70 MC
* Rectee \$450 Needed *
* Nelter 12 Weldel *

Copy to	□ SWR	□/WM# 5						
	NCR							
	□ agent							
	□ CWRE_							
	□ A.L.O							
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Name: Barbara Park Date: 4/11/2016 Peer Reviewer:

The purpose of this checklist is to be used as a working document by Department staff to aid in the production of the related Initial Review, Proposed Final Order, or Final Order. It is not intended to be a complete record of all factors which were considered to produce the document, nor is it intended to serve any purpose other than that stated above. The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production.

# IR CHECKLIST

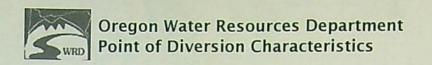
Application #: G-18131 Applicant: WILLIAM WILSON
Use(s): DOMESTIC; IRRIGATION USE ON 3.0 ACRES Priority Date: August 21, 2015
Requested Use/Rate/Season Do + IR 3.0 ac 0.03748 MARI-073 Limit 180 Duty 6
Allowed Use/Rate/Season (\$\frac{1}{20} \) \(\frac{1}{20} \) \(\fra
DIV 9 NA will likely be available will not likely be available will, if properly conditioned
classify as surface water well has PSI with NO PS
GW conditions IC + Special Calluvial, B2c)
Conditions
Small ≤ 0.1 CFS, ≤ 9.2 AF □ Medium > 0.1 CFS but < 0.5 CFS, > 9.2 AF but < 100 AF □ Large ≥ 0.5 CFS, ≥ 100 AF
use at least Medium for: Siltcoos Lake, stored water contract, and Sandy Basin ground water use Large for: Tenmile Lake, NU or other temp control, and gov. entities; Large-7g, Large-7i for 7g/7i use Large-TFM: HC exceptions; and if GW in South Salem Hills, or 10+ acres in Stage Gulch CGWA
ORS 538 prohibits use   → No □ Yes (stop processing and return app and fees)
Stream is withdrawn
Use is □ allowed □ not allowed □ limited □ OAR □ Compact <u>690-507-0070</u>
✓SW availability NA □ 80% □ 50%WID:
☐ Use DWF's 6/21/05 non-standard W/A memo if the source is: trib to Drews Res, Snake R, Columbia R, North Umpqua R below Rock Cr, or within drainages of Lost R, Chehalem Cr, or Champoeg Cr (including Mission Cr and Case Cr)
DIVISION 33 PNA No UPPER COLUMBIA (not allowed 4/15 - 9/30)  LOWER COLUMBIA  STATEWIDE
Use is within a Priority WAB NO NO Yes
POU conflict  NA No No, different sources No, make up a deficiency in rate No, existing not at max. rate
□ Yes
✓ Use is supplemental, checked for primary rights w/ diff source  Va □ Yes limits
App w/in a District boundary □ No Dyes, cc: Hermiston ID, Hemiston 97838
Land use □ allowed outright □ not allowed □ being pursued □ not being pursued □ decision obtained □ N/A
MU or QM NA will complete construction within 20 years Lisa reviewed recommendations
Storage contract    NA □ BOR □ Doug Co □ Corp of Eng □ needed □ obtained
POD is within North Umpqua settlement reach and the spreadsheet was updated A Yes
Forms NA □ HC except (receipts/well logs attached) □ spring description □ Form M

	o√Na) □ need	led □ Yes			
Copy to SWR WM	#_5_	□ a.l.o. □ DOA (div 33) □ CTUIR	□ CRIFC □ USFWS	□ NOAA & USFWS (4d) □ DOA Food Safety Div (1) □ NW Planning Council	bottled h2o)
□ city (w/in 5-mile muni wel		□ DEQ, greg geis (POA in 1N, 3E,		□ DOGAMI & D (mining)	OSL
Fees D.D3/CFS	Base		_1150-		
AF	Up to 1 CFS		300-		
	Add'1 C	CFS			
	Up to 20 AF				
1 Well	Add'l A	AF @ \$1			
1 we	Add'lPOD	)/POA use +			
	Exam	Fee Required =	1450	Rec Fee Req'd	450-
( \$ DO)	Exam	Fee Paid	(1450-)	Red Fee Paid	
	Still O	wed	7	Owed before permit	450
App/map meet min. req \(\varphi\) Y (If not, se	es □ No □ A	LO info □ map	□ legal		
Req'd before PFO NA	□ LU approve/p	pursue □ ALO	info □ exam	fees	
✓ Req'd before permit □ NA	Ovecording for	ees well repair	□ LU □ ease	ement □ plans/specs □ st	orage contract
Letter format	□ limited □	bad □ bad w/ ra	ate reduction oppo	rtunity	ortunity
✓ Scanned images exist for app	plication form a	nd map			

Application #: G-18131 Applicant: WILLIAM WILSON

Name: Barbara Park Date: 1/8/2016 Peer Reviewer:

The purpose of this checklist is to be used as a working document by Department staff to aid in the production of the related Initial Review, Proposed Final Order, or Final Order. It is not intended to be a complete record of all factors which were considered to produce the document, nor is it intended to serve any purpose other than that stated above. The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production.



Help

**3** Return

Contact Us

# **Point of Diversion Characteristics**

Right: App: G 18131 \*
Name: WILLIAM WILSON

TRSQQ: 04.00N-29.00E-06-NWSW

County: Umatilla Basin: Umatilla

WM District: 5 WM Region: NC

Withdrawn Area: UMATILLA

WAB: UMATILLA R > COLUMBIA R - AT MOUTH (221)

Priority WAB: COLD SPRS WASH @ mouth (OWRD: Fair, ODFW: Poor) (30710340)

NO PS1

Rule 4D: Rules apply

Groundwater Restricted Area:

Scenic Water Way:

Division 33: UPPER COLUMBIA

Water Quality Limited:

## WATER RESOURCES DEPARTMENT DIVISION 507 UMATILLA BASIN PROGRAM

# 690-507-0070 Columbia-Umatilla Plateau Subbasin

- (3) Ground Water: Appropriation and use of ground water in the Columbia-Umatilla Plateau subbasin shall comply with the following provisions:
- (B) The ground water resources of the Columbia-Umatilla Plateau outside the Ordnance and Butter Creek Critical Ground Water Areas and the Ella Butte and Stage Gulch Ground Water Study Areas are classified for statutorily exempt ground water uses (see definition), irrigation, municipal, industrial, power development, low temperature geothermal, mining, fish life, wildlife, recreation, pollution abatement, and artificial ground water recharge;

POA = Wi 5 miles of Umatila Muni wells

# Place of Use Conflict Report

The following rights have acreage in the same quarter-quarter as App: G 18131 \*

CERT-89006 CF RF CR   US BUREAU OF RECLAMATION UMATILLA RIVER   89006 96/1905   NC   IR   04.00N-29.00E-06-NWSW   0.4400   0.44	Right	Name	Decree App	Permit	Cert	Priority	Status	Use	T-R-S-QQ	DLC Gov't Le	ot Acres
1.1000   1	CERT:89006 CF RR CR	US BUREAU OF RECLAMATION UM	ATILLA RIVER		89006	9/6/1905	NC	IR	04.00N-29.00E-06-NWSW	3	0.8000
0.3000   Fig.   Fig.								IR	04.00N-29.00E-06-NWSW	3	0.4400
1900   1900								IR	04.00N-29.00E-06-NWSW	]	1.1000
1.9000   1								IR	04.00N-29.00E-06-NWSW	3	0.3000
IR   04.00N-29.00E-06-NWSW   0.6000   06.0000   06.0000   06.0000   06.0000   06.0000   06.0000   06.0000   06.0000   06.00000   06.00000   06.00000   06.00000   06.00000   06.00000   06.000000   06.000000   06.000000   06.0000000   06.0000000000								IR	04.00N-29.00E-06-NWSW	]	0.8000
S   04.00N-29.00E-06-NWSW   0.4400								IR	04.00N-29.00E-06-NWSW	]	1.9000
0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4400   0.4000   0								IR	04.00N-29.00E-06-NWSW	]	0.6000
S   04.00N-29.00E-06-NWSW   1.1000								IS	04.00N-29.00E-06-NWSW	}	0.8000
S   04.00N-29.00E-06-NWSW   0.3000								IS	04.00N-29.00E-06-NWSW	]	0.4400
S								IS	04.00N-29.00E-06-NWSW	3	1.1000
S   04.00N-29.00E-06-NWSW   1.9000								IS	04.00N-29.00E-06-NWSW	}	0.3000
S								IS	04.00N-29.00E-06-NWSW	]	0.8000
CERT.55022 OR * GEORGE G DODSON G-9552 G-9403 55022 2/19/1980 NC IR 04.00N-29.00E-06-NWSW 9 2.5000  PERMIT. G 15511 * TOMMY COFFELT G-15865 G-15511 10/30/2002 NC IR 04.00N-29.00E-06-NWSW 1.8900  PERMIT. G 17357 * TAMI FOSTER G-17448 G-17357 1/12/2011 NC IR 04.00N-29.00E-06-NWSW 8.5000								IS	04.00N-29.00E-06-NWSW	}	1.9000
PERMIT: G 15511 * TOMMY COFFELT G-15865 G-15511 10/30/2002 NC IR 04.00N-29.00E-06-NWSW 1.8900  PERMIT: G 17357 * TAMI FOSTER G-17448 G-17357 1/12/2011 NC IR 04.00N-29.00E-06-NWSW 8.5000								IS	04.00N-29.00E-06-NWSW	}	0.6000
PERMIT G 17357 * TAMI FOSTER G-17448 G-17357 1/12/2011 NC IR 04.00N-29.00E-06-NWSW 8.5000	CERT:55022 OR *	GEORGE G DODSON	G-9552	G-9403	55022	2/19/1980	NC	IR	04.00N-29.00E-06-NWSW	9	2.5000
	PERMIT: G 15511 *	TOMMY COFFELT	G-15865	G-15511		10/30/2002	NC	IR	04.00N-29.00E-06-NWSW	]	1.8900
PERMIT G 17334 : ATTILA KOPPANY G-17773 G-17334 2/24/2014 NC IR 04.00N-29.00E-06-NWSW 4.1000	PERMIT: G 17357 *	TAMI FOSTER	G-17448	G-17357		1/12/2011	NC	IR	04.00N-29.00E-06-NWSW	}	8.5000
	PERMIT: G 17334 *	ATTILA KOPPANY	G-17773	G-17334		2/24/2014	NC	IR	04.00N-29.00E-06-NWSW		4.1000

# Main

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#### Search Criteria

Meri	dian: Willamette T	ownship: 4	North	n Range	: 29	Ea	st	Se	ction	6	1	Recoi	ds pe	er Pag	ge: 1	00		Sea	arch		Le		tcards		
	Water Right	Changing Xfers	Priority	Use	<u>Use</u> Status	DLC	Gov't	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unko
Select	App: G 18131 *  Additional Info: WILLIAM WILSON App: G18131		8/21/2015	DOMESTIC														•							
Select	Additional Info: PAUL HENDERSON App: G14617 Permit: G13481 Cert: 89462		10/3/1997	DOMESTIC EXPANDED																					
Select	Permit: G 6663 CN  Additional Info: MARSCHALL A MOON App: G7118 Permit: G6663		9/23/1975	IRRIGATION	CN								8.65												
Select	Additional Info: JAMES L SCHELL App: G9636 Permit: G9156		3/26/1980	IRRIGATION	CN													2							
Select	Additional Info: LOIS E LEE App: G10026 Permit: G9557		11/19/1980	IRRIGATION	CN					5															
Select	Permit: G 13925 *  Additional Info: ROGER SMITH App: G15232 Permit: G13925		10/13/2000	IRRIGATION										2.6											
Select	Permit: G 14028 *  Additional Info: BRUCE THOMPSON		9/14/2000	IRRIGATION		×							1.5	0.5											

	App: G15214 Permit: G14028						-			1				
	Cert:35599 OR *  Additional Info: LARRY D EADES App: G3447	4/6/1966	IRRIGATION						•					
	Permit: G3105 Cert: 35599													
Select	Cert:42274 OR *  Additional Info: HAROLD O COX App: G5259 Permit: G5110 Cert: 42274	7/27/1970	IRRIGATION		12		2.5							
Select	Cert:51693 OR *  Additional Info: LEON JAY BALL App: G6025 Permit: G5732 Cert: 51693	3/9/1973	IRRIGATION		5			2.3						
Select	Additional Info: LEON JAY BALL App: G6025 Permit: G5732 Cert: 51693	3/9/1973	IRRIGATION		6			0.7						
	Additional Info: MARSCHALL A MOON App: G8797 Permit: G8185 Cert: 53392	5/5/1978	IRRIGATION		12		8.5							
	Additional Info: GEORGE G DODSON App: G9552 Permit: G9403 Cert: 55022	2/19/1980	IRRIGATION		9					2.5				
	Permit: G 15511 *  Additional Info: TOMMY COFFELT App: G15865 Permit: G15511	10/30/2002	IRRIGATION							1.89				
	Permit: G 15830 CN Additional Info; HAROLD HAGA App: G16279	7/19/2004	IRRIGATION	CN							0.5			

	Permit: G15830																				
	Cert:83426 OR *  Additional Info: JUAN OLVERA App: G11108 Permit: G10244 Cert: 83426	9/29/1983	IRRIGATION	12					3.4												
Select	Cert:88712 CF CN  Additional Info: US BUREAU OF RECLAMATION Decree: UMATILLA RIVER Cert: 88712	9/6/1905	IRRIGATION CN		33.3	35.0	32.5	32.6					26.09								
Select	Cert:89006 CF RR CR * T11695, T11326, Additional Info: T11934, US BUREAU OF RECLAMATION T12245 Decree: UMATILLA RIVER Cert: 89006		IRRIGATION		33.3	35.9	32.5	32.6			11.5	21.9	26.09	5.94	41.5	38.4	29.6	35	38.4	33.2	
Select	Cert:89462 OR *  Additional Info: PAUL HENDERSON App: G14617 Permit: G13481 Cert: 89462	10/3/1997	IRRIGATION									2.15									
Select	Additional Info: ATTILA KOPPANY App: G17773 Permit: G17334	2/24/2014	IRRIGATION											4.1							
Select	Permit: G 17357 *  Additional Info: TAMI FOSTER App: G17448 Permit: G17357	1/12/2011	IRRIGATION											8.5							
Select	App: G 18131 *  Additional Info: WILLIAM WILSON App: G18131	8/21/2015	IRRIGATION											3							
Select	Permit: S 49497 *  Additional Info: KIM PUZEY App: S58245 Permit: S49497	1/19/1979	MUNICIPAL USES			•	•	•	•	•			•	•	•	•		•	•	٠	
Select	Cert:44903 OR *  Additional Info: DELBERT KERNS App: G6133	5/21/1973	SUPPLEMENTAL IRRIGATION (Suppl'mtl)			4.2															

	Permit: G5803 Cert: 44903																	
Select	Cert:53745 OR *  Additional Info: GERALDINE E JONES App: G8886 Permit: G8303 Cert: 53745		7/11/1978	SUPPLEMENTAL IRRIGATION (Suppl'mtl)						0.6								
Select	Cert:55843 OR *  Additional Info: WALTER R KLIPPSTEIN App: G11128 Permit: G10258 Cert: 55843		10/5/1983	SUPPLEMENTAL IRRIGATION (Suppl'mtl)			2.5											
Select	Cert:88712 CF CN  Additional Info: US BUREAU OF RECLAMATION Decree: UMATILLA RIVER Cert: 88712		9/6/1905	SUPPLEMENTAL CN IRRIGATION (Suppl'mtl)	33.3	35.9	32.5	32.6	41.5	21.9	26.09	5.94	41.5	38.4	29.6	35	38.4	33.2
Select		T11695, T11326, T11934, T12245	9/6/1905	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	33.3	35.9	32.5	32.6	11.5	21.9	26.09	5.94	41.5	38.4	29.6	35	38.4	33.2

Acreage Legend: 12.25 Regular acreage 12.25 Acreage is on a canceled right

(12.25) Acreage is part of a transfer and has not been proven up on yet [12.25] Acreage has been (inchoate)

suspended

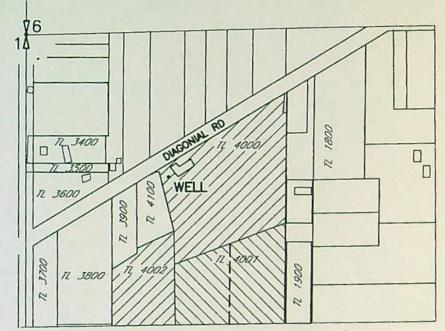
\* Acreage is not specified

ATTILA KOPPANY AREA OF PERMIT G-16859 THAT I AM AUTHORIZING TO BE CANCELED ALLOWING MY GROUND WATER APPLICATION G-17773 TO BE PROCESSED SEC 6, T4N, R29E W.M. LOT 9 - NW 1/4 SW 1/4

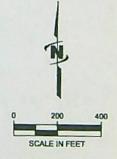
RECEIVED BY OWRD

JUL 2 8 2014

SALEM, OR









4.1 AC AREA OF PERMIT G-16859 TO BE CANCELED



8.5 AC AREA OF PERMIT G-16859 NOT INVOLVED IN MY APPLICATION G-17773

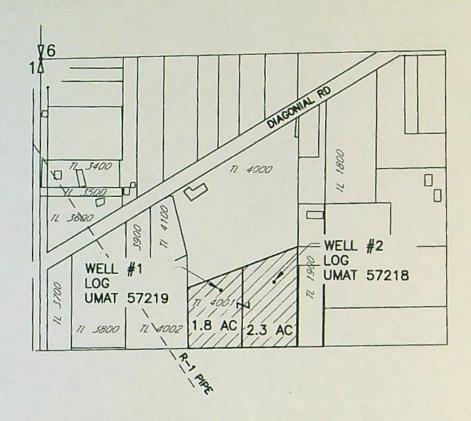
THE PURPOSE OF THIS MAP IS TO IDENTIFY THE APPROXIMATE LOCATION OF THE WATER RIGHT. IT IS NOT INTENDED TO PROVIDE INFORMATION RELATIVE TO THE LOCATION OF PROPERTY OWNERSHIP BOUNDARY LINES.

DRAWING: F:\Project\30-08-016 - Porfily Water Rights Consulting\-00 Misc Engineering\Cod\KOPPANY\30-08-016 att can.dwg PRINTED BY: rwillgrd on 07/17/14 01:49 PM

# RECEIVED

SEP 17 2014

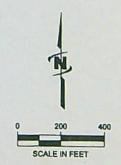
WATER RESOURCES DEPT SALEM, OREGON GROUND WATER APPLICATION MAP ATTILA KOPPANY SEC 6, T4N, R29E W.M. LOT 9 - NW 1/4 SW 1/4



PROPOSED P.O.A.

WELL LOCATED #1 1040'S AND 820'E FROM THE W 1/4 COR, SEC 6

WELL LOCATED #2 1025'S AND 1058'E FROM THE W 1/4 COR, SEC 6



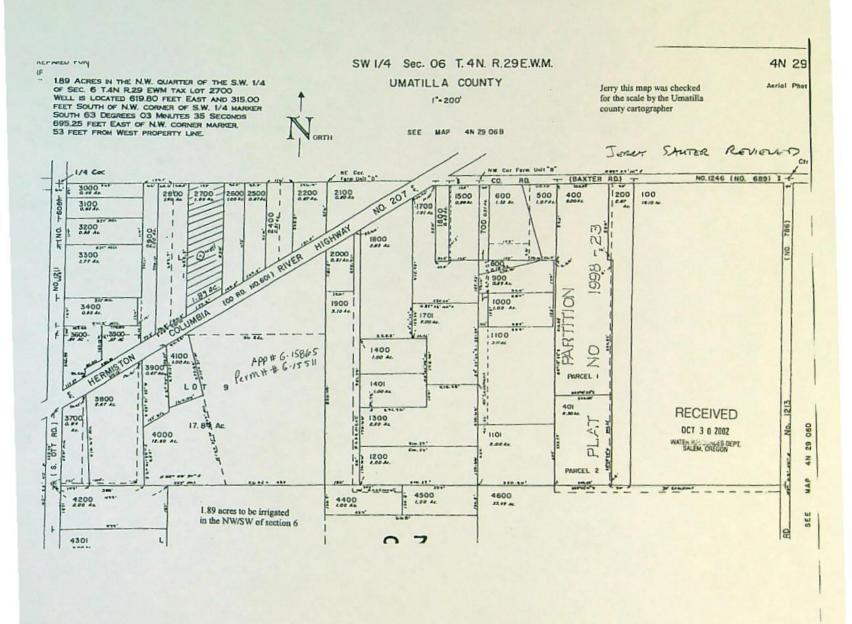


AREA OF PROPOSED IRRIGATION UNDER THIS APPLICATION

NOTE

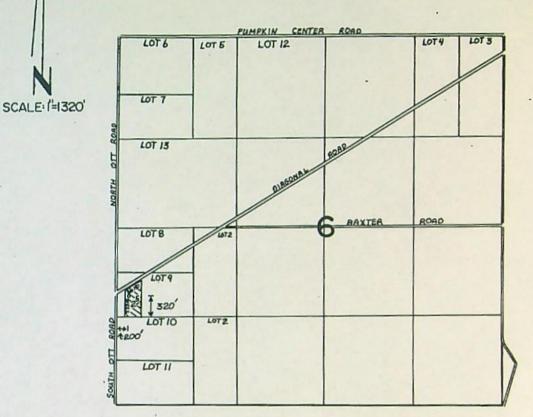
THE PURPOSE OF THIS MAP IS TO DENTRY THE APPROXIMATE LOCATION OF THE WATER RIGHT. IT IS NOT INTENDED TO PROVIDE IN ORMATION RELATIVE TO THE LOCATION OF PROPERTY OWNERSHIP BOUNDARY LINES.

ORAWING: F:\Project\30-08-016 - Porfix Water Rights Consulting\-00 Visc Engineering\Coo\KOPPANY\30-08-016 KOPANY\awg
PRN ED BY: rwillord on 09/1//14 10:24 AM



35022

T.4 N., R.29E., W.M.



# FINAL PROOF SURVEY

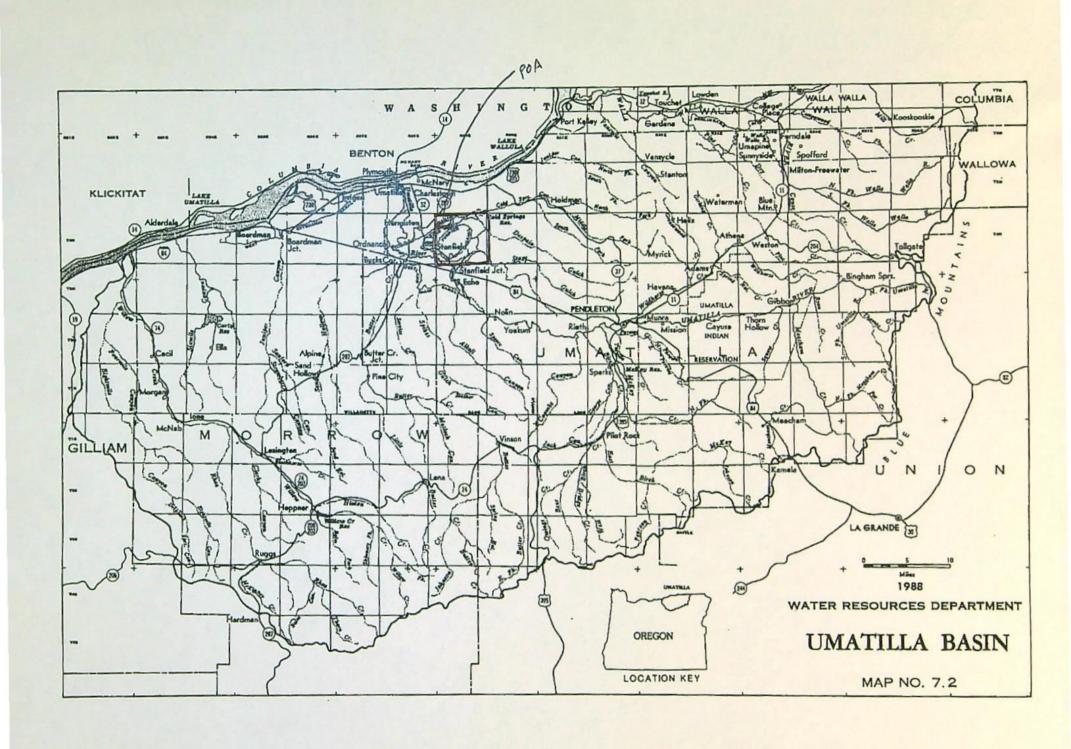
Application No. G-9552 Permit No. G-9403 IN NAME OF

GEORGE G. 3 NORENE DODSON

Surveyed Masch. 26. 19.86., by .X.L.CHURCH.

COT LOCATION FROM

88L JS

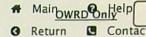


POD

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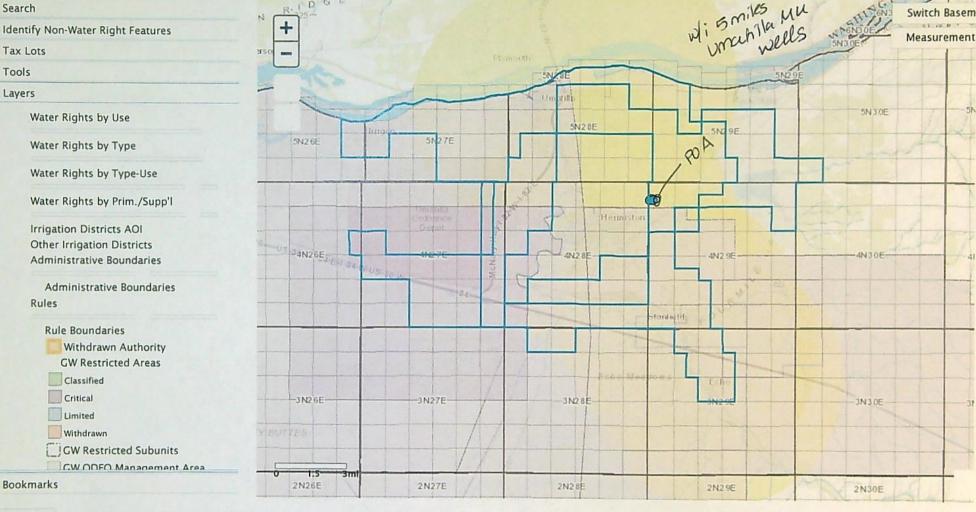
All Fields

Irrigation Districts AOI WR By Time



725 Summer St NE, Sale

Contact Us



		All Fleius		J Search									
	# ID (sele	t) WRIS	Zoom	Water Right	Water Type	First Name	Last Name	Company	Use Desc.	Priority Date	Supp.	Duty	Rate cfs
	1 6784	(Details)	Map WR	Cert:55022 OR * IR	GW	GEORGE G	DODSON		IRRIGATION	02/19/1980	-	3	0.0
	2 13475	4 (Details)	Map WR	Permit: G 15511 * IR	GW	TOMMY	COFFELT		IRRIGATION	10/30/2002	-	3	0.02
	3 18731	B (Details)	Map WR	Permit: G 17334 * IR	GW	ATTILA	KOPPANY		IRRIGATION	02/24/2014		3	0.024
Se	arch took 0	sec											1-

# Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # # 6-18131
ROUTED TO: Water Rights
TOWNSHIP
RANGE-SECTION: 4N/29E-6
CONDITIONS ATTACHED?: [4 yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
_ see conditions on p2.
Reviewer: J. Hackett

# WATER RESOURCES DEPARTMENT December 18 .2015 **MEMO** Application G- 18/3 / TO: GW: J. Hackett FROM: SUBJECT: Scenic Waterway Interference Evaluation YES The source of appropriation is within or above a Scenic Waterway NO YES Use the Scenic Waterway condition (Condition 7J) NO Per ORS 390.835, the Groundwater Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below. Per ORS 390.835, the Groundwater Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway. DISTRIBUTION OF INTERFERENCE Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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

# PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Wate	er Rights S	Section		•		Dat	te	Dece	mber 18	, 2015	
FROM	<b>1</b> :	Grou	ndwater S	Section			ackett						
SUBJE	FCT.	Anni	ication G	- 18131			riewer's Name Inersedes r	eview of					
JODJI	JC1.	rippi	reation G	10101		. 50	ipersedes i	eview or			Date of Re	view(s)	
OAR 6 welfare to deter	90-310-1 s, safety a mine wh	130 (1) and head ether th	The Depar th as descr e presump	ribed in ORS tion is estab	oresume that 5 537.525. D lished. OAR	t a propos epartmen 690-310	sed groundw t staff review -140 allows	vater use will w groundwate the proposed d agency pol	er applica use be m	tions u	inder OA d or cond	R 690-31 itioned to	0-140 meet
A. <u>GE</u>	NERAL	LINFO	RMATI	<u>ON</u> : A	pplicant's N	lame:	William &	& Linda Wi	lson	_ (	County: _	Umatil	la
A1.	Applicant(s) seek(s) 0.037 cfs from 1 well(s) in the Umatilla subbasin						_ Basin,						
A2.	Dronos	ad usa	T	igation				Navah 1 C	) otobou	21			
			Iri					March 1 – C					
A3.	Well ar	nd aquif			mber logs f		TO NO.	rk proposed					
Well	Logid Applicant's Proposed Aquifer* Proposed Rate(cfs)			(cfs)	Location Location, metes and bounds, (T/R-S QQ-Q) 2250' N, 1200' E fr NW cor S			cor S 36					
2	UMAT 5	0001	1	A	lluvium	0.0	137	4N/29E-6 NW	/-SW	980	o' S, 1370'	W fr C1/4	or S 6
3 4													
* Alluvi	um, CRB,	Bedrock											
	Well	First	01111		Well	Seal	Casing	Liner	Perfora	tions	Well	Draw	
Well	Elev ft msl	Water ft bls	SWL ft bls	SWL Date	Depth (ft)	Interval (ft)	Intervals (ft)	Intervals (ft)	Or Scre	eens	Yield	Down	Test Type
1	463	42	15	5/28/91	51	0-20	+1-48	(ii)	(11)		(gpm) 35	(ft)	A
Use data	from app	lication	for proposed	i wells.		THE I							
A4.	Comme	ents: _											
A5. 🛛	Provis	ions of	the <u>Umati</u>	lla River ter hydraulie	cally connec	ted to sur	Basin ru	ıles relative to ☐ are, or  ☐	the deve	elopme	ent, classi	fication a	and/or
	(INOL all	Dasin I	ules contai	n such provi	Sions.)			□ are, or □					
			1100000	7 Tutes do III	л арргу то п	на арриса	ation.						
A6. 🗌	Well(s) Name o Comme	f admin	isuative ai	ea.				p(s) an aquife				rative res	triction.
	-										April 1		

Version: 04/20/2015

2

# B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

	Base	ed upon available data, I have determined that groundwater* 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 groundwater 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 groundwater 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 groundwater resource; or							
	d.	will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater 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;							
	a.	Condition to allow groundwater production from no deeper thanft. below land surface;							
	b.	Condition to allow groundwater production from no shallower than ft. below land surface;							
	c.	Condition to allow groundwater production only from the groundwater reservoir between approximately ft. and ft. below land-surface;							
	d.	<ul> <li>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 Groundwater Section.</li> <li>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):</li> </ul>							
s.		bundwater availability remarks: There are many low-use alluvial residential and irrigation wells in the area around the perty and several small, recent water rights with groundwater POAs, generally < 10 acres with post-2000 priority dates.							
		Il logs in the area indicate approx. 50 – 150 ft of alluvial material overlying basalt. Alluvial wells generally yield 40 – 100 in (0.09 – 0.22 cfs) which is sufficient for these small-parcel water rights.							
	Wa	ter levels in nearby alluvial wells show no signs of declines (see attached hydrograph). Therefore it is likely that the vial groundwater system can support the proposed rate and use of this application.							
	_								
	=								
	-								
	-								

3

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvium		

Basis for aquifer confinement evaluation: The well produces from a gravel layer overlain by 40 feet of permeable sand.

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
		N/A: see comments below					

Basis for aquifer hydraulic connection evaluation: There are several canals within the area but no perennial streams within 1 mile of the applicant's well.

Water Availability Basin the well(s) are located within: Umatilla R. > Columbia R. - At Mouth

C3a. 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 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 < 1/4 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 ation 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?

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-Di Well	stributed SW#	Wells Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
well	SW#		%	Widi	%	%	%	%	%	%	%	%	%
W-11 O	CCC	%	70	70	76	70	70	70	70			-	
	as CFS												
Intertere	ence CFS												
Distrib	uted Wells	S											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS			E									
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS	E L											
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS	MILES											
		%	%	%	%	%	%	%	%	%	. %	%	%
Well C	as CFS												
Interfer	ence CFS												
	-	%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
Interfer	ence CFS												
(A) = To	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) =	(A) > (C)	V		17	1	V	V	7	V	17	1	1	4
(E) = (A	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

Application G-18131

Date: December 18, 2015

5

	otal interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. at (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:
	Dusts for impact evaluation.
lb.	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Wa
	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater us under this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s)
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;
5. SY	W / GW Remarks and Conditions:
_	
-	
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CII	ferences Used: Grondin, G. H., K. C. Wozniak, D. O. Nelson, and I. Camacho. 1995. Hydrogeology, Groundwater emistry, and Land Uses in the Lower Umatilla Basin Groundwater Management Area; Northern Morrow and Umatilla unties Oregon.
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Co	emistry, and Early Oses in the Lower Umathia Basin Groundwater Management Area: Northern Morrow and Heaville
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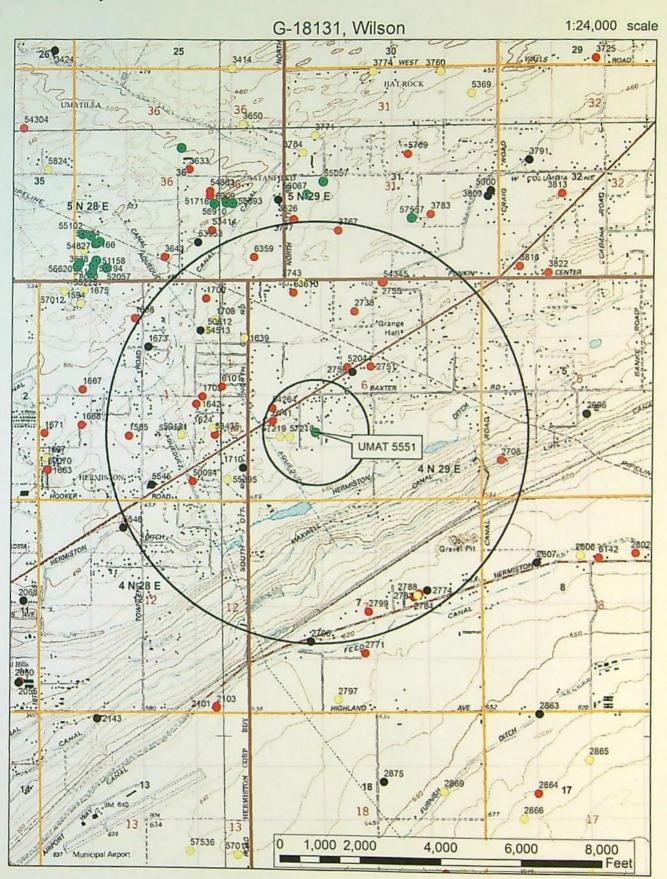
Application G-18131 Date: December 18, 2015 Page

# D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:	
D2.	a. review of the well log; b. field inspection by c. report of CWRE	o meet current well construction standards based upon:	
D3.	THE WELL construction defic	ciency or other comment is described as follows:	
D4.	Route to the Well Construction	n and Compliance Section for a review of existing well construc	ction.

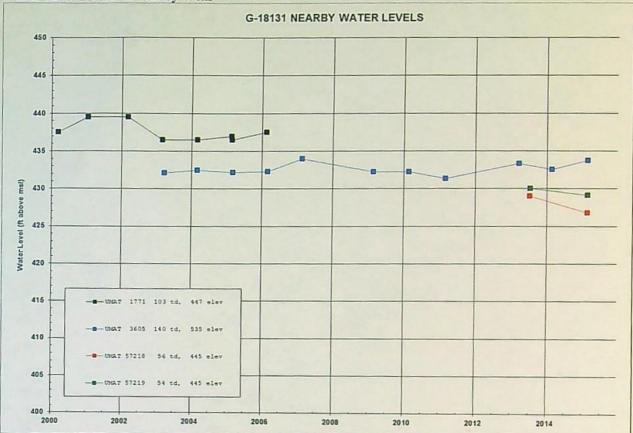
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Date: December 18, 2015



8

Date: December 18, 2015



# Standard Application Completeness Checklist Minimum Requirements (OAR 690-310-0040) (ORS 537,400)

Yes No

This is the checklist used by WRD staff

Application 6-1813   County Uma+111A Priority Date 8-21-2015
Township 4 N Range 29 E Section 6
Amount 48 AF Use IR and Domestic WM Dist. # 5
Applicant Name will; Am & Linda Wilson
Receipt No. 117074 Caseworker Assigned: A Barbe  Kim Kerri
Contact info: Applicant/Organization Name and Mailing Address
Signature (in ink) of <i>all</i> applicants or the applicant's authorized agent (include title or authority if for an organization or corporation).
Property ownership: Does the applicant own all the land for the proposed project?   N
If No:
☐ The affected landowner's name and mailing address must be listed
A signed statement declaring the existence of either written authorization or an easement permitting access to land crossed by the proposed ditch canal or other work must be submitted.
☐ For a SW Application: Source of water must be indicated.
If the source is stored water, is the stored water component filled out and does the applicant own the reservoir or include a non-expired agreement for stored water? (ORS 537.400)  NOTE: A surface water application cannot be filed at the same time as a Reservoir or Alt Reservoir if it will be for the use of the stored water under the PROPOSED Reservoir application, Exp. Secondary (E2).
☐ If for stored water not under contract, is the source authorized under a permit, certificate, or decree?
Permit or Certificate issued? Y / N Permit or Certificate #
For a GW Application: Well Development Tables completed and/or a well log report included (if existing)
☐ Proposed water use
Amount of water from each source in GPM, CFS, or AF  Period of use indicated
☐ If for supplemental irrigation, primary acreage or underlying permit or certificate number listed  (Primary and Supplemental Irrigation counts as 2 uses)
Water Management Section (Estimates if the water system has not been designed)
Resource Protection Section (N/A for Groundwater)
For all standard reservoir applications: Preliminary plans and specifications including dam height, width, crest width and surface area for each reservoir.
Project schedule (If system is already completed, indicate "existing.")

174×	Supplemental data sheets enclosed (if needs    Form M (Municipal or Quasi-Municipal or Qu						
	☐ Spring Description Sheet (if source i						
×	A completed Land-Use Form or receipt sig Please be certain that the Land-Use form li be within the past 12 months.	ened and dated b					
A	A Legal Description of all the properties in sdescription includes a metes and bounds or sales contract or title insurance policy can prepared by a title company. Copies of tax be	other government ovide this inform	nt survey description. A contact may	opy of the deed, land			
A.	The proposed source <u>IS / IS NOT</u> (circle one) restricted or withdrawn from further appropriation.  NOTE: If it is withdrawn under ORS 538, then return application and fees. If it is withdrawn by other means, accept the application and a negative IR will be issued.						
de	The map must meet all the minimum requirements of OAR 690-310-0050.						
1	Township, Range, Section						
	Location of main canals, ditches, pip	elines or flumes	(if POA/POD is outside	of POU			
	Place of use, 14-14's and tax lot clearly						
	Even map scale not less than 4" = 1 i	nile (1"= 1320 f	(a); examples: 1" = 100 ft	., 1" = 200 ft.			
	Location of each diversion point, we	ll or dam by refe	rence to a recognized pul	blic land survey corner.			
	Multiple wells shall be uniquely labe  Reference corner on map	led, and identifie	ed on well logs if existing				
	North Directional Symbol						
	Number of acres per 14-14 if for irriga	tion nursers or	agricultura				
	For a standard reservoir application to	o store > 9.2 aer	e feet AND having a dar	n haight > 10 faat, man			
	must be prepared by a CWRE		a control of the cont	minergin 2 to reet, map			
44							
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#### West Extension Irrigation District

P. O. Box 100; Irrigon, OR 97844-0100 541-922-3814 (ph) 541-922-9775 (fax) bbridge@oregontrail.net

February 8, 2016

Barbara Park Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, OR 97301

Re: Comments on IR for Groundwater Permit Application G-18131

Dear Ms. Park;

Linda and William Wilson filed Application G-18131 (the Application) for the use of up to 0.037 cubic feet per second of groundwater from a well in the Umatilla Basin for irrigation of 3 acres. On January 8, 2016, the Oregon Water Resources Department (OWRD) issued an Initial Review (IR) for the Application, which included favorable initial determinations. West Extension Irrigation District (WEID) is providing the following comments on that IR.

The Application proposes to appropriate water from the alluvial aquifer within Section 6, Township 4 N, Range 29 East. OWRD's groundwater review concluded that the proposed use of groundwater would not have the potential for substantial interference (PSI) with surface water because the well is not located with one mile of a perennial surface water source. However, it is well documented that groundwater from the alluvial aquifer at the proposed point of appropriation flows toward and discharges into the Umatilla River above WEID's Threemile Falls diversion. WEID has senior water rights that are routinely not met and the appropriation of groundwater under Application G-18131 will exacerbate the impairment of WEID's senior water rights.

Since 2006, WEID has been providing information to OWRD demonstrating that groundwater use is adversely impacting WEID's senior water rights. OWRD's Division 9 rules authorize the agency to consider cumulative adverse impacts from groundwater use on surface water (including impacts from wells beyond a mile from surface water) when evaluating PSI.

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Pg. 2 over

NEED A COMMENT EVAL ATTACHED

GwRed Considered

6-18131

Soon after the IR for Application G-18131 was issued, WEID received a communication from the Department that it was working on strategies to address WEID's concerns about impacts on river flow from groundwater development. Once again, 1 urge OWRD to consider the cumulative impacts to senior water users on the Umatilla River when evaluating groundwater applications in this area. The use of groundwater proposed by Application G-18131 will reduce the amount of water available to WEID's senior surface water rights and should be denied.

Thank you for your consideration and I look forward to your response.

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Sincerely,

Bev Bridgewater

Manager, West Extension Irrigation District

Bu Brdgewater

CC: Doug Woodcock, Deputy Director
Mike Ladd, Region Manager, District 5
Greg Silbernagel, District 5 Watermaster
Adam Sussman, GSI
Douglas MacDougal, Attorney



Water Resources Department

725 Summer St NE, Suite A Salem, OR 97301 (503) 986-0900 Fax (503) 986-0904

January 8, 2016

WILLIAM L. AND LINDA WILSON PO BOX 505 STANFIELD, OR 97875

Reference: File G-18131

Dear Applicant:

# THIS IS NOT A PERMIT AND IS SUBJECT TO CHANGE AT THE NEXT PHASE OF PROCESSING.

This letter is to inform you of the preliminary analysis of the water-use permit application and to describe the options. In determining whether an application may be approved, the Department must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information supplied, the Water Resources Department has made the following preliminary determinations:

#### Initial Review Determinations:

- The application proposed the appropriation of 0.037 cubic foot per second (CFS) of water from Well 1 (UMAT 5551) in Hermiston Drain Basin for irrigatoin of 3.0 acres March 1 through October 31 of each year.
- The proposed use is not prohibited by law or rule except where otherwise noted below.
- The appropriation of water from Well 1 (UMAT 5551) in Hermiston Drain Basin for irrigation is allowable under the Umatilla Basin Program (OAR 690-507-0070).
- Groundwater will likely be available within the capacity of the resource, and if properly conditioned, the proposed use of groundwater will avoid injury to existing groundwater rights.
  - The Department has determined, based upon OAR 690-009, that the proposed groundwater use will not have the potential for substantial interference with any surface water source.
- The application proposed a duty that is higher than the general basin-wide standard of 3.0 acre-feet (AF) per acre, but did not demonstrate to the satisfaction of the Department the need for a higher duty. If you would like to pursue a permit for 6.0 AF per acre, please submit additional information to demonstrate the need for the higher duty by Friday, January 22, 2016.

The Department will evaluate any information received prior to the next step in processing. If we don't receive additional information, the Department will limit the duty to 3.0 AF, being 9.0 AF per acre per year.

#### Summary of Initial Determinations

The appropriation of 0.037 CFS of water from Well 1 (UMAT 5551) in Hermiston Drain Basin for irrigation of 3.0 acres is allowable during the full period requested, March 1 through October 31 of each year.

Because of these favorable determinations, the Department can now move the application to the next phase of the water-rights application review process, where public interest factors will be evaluated.

Please reference the application number when sending any correspondence regarding the conclusions of this initial review. Comments received within the comment period will be evaluated at the next phase of the process.

#### To Proceed With the Application:

If you choose to proceed with the application, you do not have to notify the Department. The application will automatically be placed on the Department's Public Notice to allow others the opportunity to comment. After the comment period the Department will complete a public interest review and issue a Proposed Final Order.

#### Withdrawal Refunds:

If you choose not to proceed, you may withdraw the application and receive a refund (minus a \$225 processing charge per application). To accomplish this you must notify the Department in writing by Friday, January 22, 2016. For your convenience you may use the enclosed "STOP PROCESSING" form.

#### If A Permit Is Issued It Will Likely Include The Following Conditions:

#### 1. Measurement devices, and recording/reporting of annual water use conditions:

- A. The Director may require the permittee to install a totalizing flow meter at each point of appropriation. If the Director notifies the permittee to install a measuring device, the permittee shall install such device within the period stated in the notice. Once installed, the permittee shall maintain the device in good working order, and shall allow the watermaster access to the device.
- B. The Director may require the permittee to keep and maintain a record of the volume of water diverted, and may require the permittee to report water-use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water-use information, the periods of water use and the place and nature of use of water under the permit.
- C. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

#### 2. Static Water Level Conditions

To monitor the effect of water use from the well(s) authorized under this permit, the Department requires the water user to obtain, from a qualified individual (see below), and report annual static water-level measurements. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

Measurements must be made according to the following schedule:

#### Before Use of Water Takes Place

Initial and Annual Static Water Level Measurements

The Department requires the permittee to report an initial water-level measurement in the month specified above once well construction is complete, and annually thereafter until use of water begins; and

After Use of Water has Begun

Seven Consecutive Annual Static Water Level Measurements

Following the first year of water use, the user shall report seven consecutive annual static water-level measurements. The first of these seven annual measurements will establish the reference level against which future annual measurements will be compared. Based on an analysis of the data collected, the Director may require the user to obtain and report additional annual static water-level measurements beyond the seven year minimum reporting period. The additional measurements may be required in a different month. If the measurement requirement is stopped, the Director may restart it at any time.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board and be submitted to the Department on forms provided by the Department. The Department requires the individual performing the measurement to:

A. Identify each well with its associated measurement:

 Measure and report water levels to the nearest tenth of a foot as depth-to-water below ground surface;

Specify the method used to obtain each well measurement; and

Certify the accuracy of all measurements and calculations reported to the Department.

The Department may require the discontinuance of groundwater use, or reduce the rate or volume of withdrawal, from the well(s) if any of the following events occur:

A. Annual water-level measurements reveal an average water-level decline of three or more feet per year for five consecutive years; or
 B. Annual water-level measurements reveal a water-level decline of 15 or more feet in

fewer than five consecutive years; or

C. Annual water-level measurements reveal a water-level decline of 25 or more feet; or
 D. Hydraulic interference leads to a decline of 25 or more feet in any neighboring well

with senior priority.

The period of non-use or restricted use shall continue until the water level rises above the decline level which triggered the action or until the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

Groundwater production shall be allowed only from the alluvial groundwater reservoir.

#### 4. Well Identification Tag Condition

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

The water source identified in the application may be affected by an Agricultural Water Quality Management Area Plan. These plans are developed by the Oregon Department of Agriculture (ODA) with the cooperation of local landowners and other interested stakeholders, and help to ensure that current and new appropriations of water are done in a way that does not adversely harm the environment. You are encouraged to explore ODA's Water Quality Program web site at http://www.oregon.gov/ODA/programs/NaturalResources/Pages/AgWaterQuality.aspx to learn more about the plans and how they may affect the proposed water use.

#### If you have any questions:

Feel free to contact me at <u>Barbara J.Park@wrd.state.or.us</u> or 503-986-0859 if you have any questions regarding the contents of this letter or the application. Please have the application number available if you call. General questions about water rights and water use permits should be directed to our customer service staff at 503-986-0801. When corresponding by mail, please use this address: Barbara Park, Oregon Water Resources Department, 725 Summer St NE Ste A, Salem OR 97301-1266. Our fax number is 503-986-0901.

Sincerely,

Barbara Park

Water Right Application Caseworker

enclosures: Application Process Description and Stop Processing Request Form

G-18131 WAB 7-no PSI POU 7-no PSI GW

# APPLICATION FACT SHEET

Application File Number: G-18131

Applicant: WILLIAM L. AND LINDA WILSON

County: Umatilla

Watermaster: 5

Priority Date: August 21, 2015

Source: WELL 1 (UMAT 5551) IN HERMISTON DRAIN BASIN

Use: IRRIGATION OF 3.0 ACRES

Quantity: 0.037 CUBIC FOOT PER SECOND

Basin Name & Number: Umatilla, #7

Stream Index Reference: Volume 3 UMATILLA R MISC

Well Location: NWSW SECTION 6, T4N, R29E, W.M.; 980 FEET SOUTH AND 1370 FEET

WEST FROM C1/4 CORNER, SECTION 6

Place of Use:

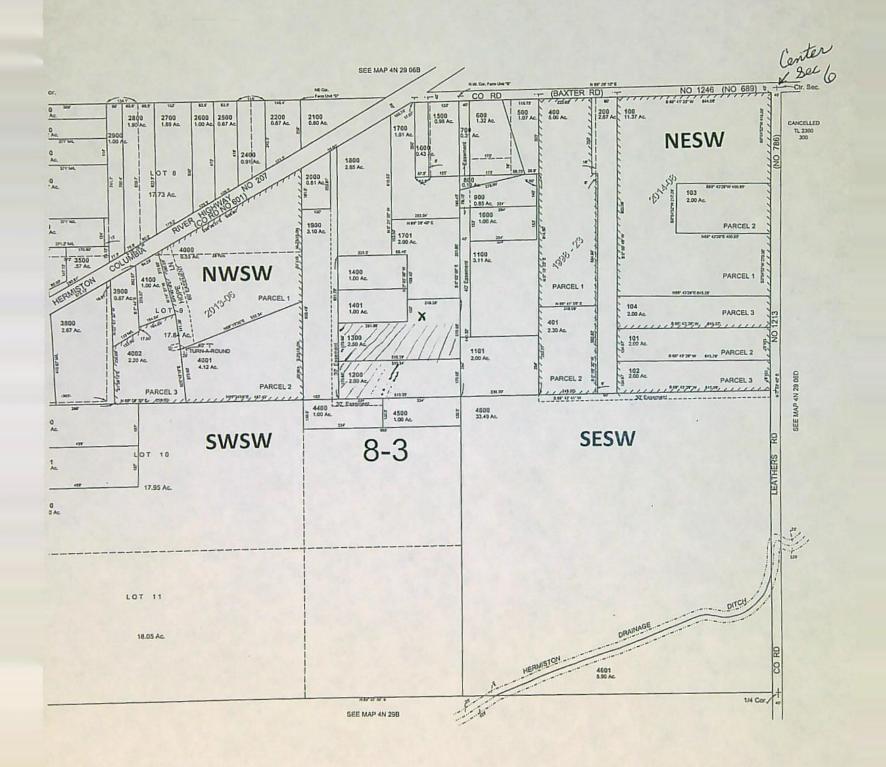
NW ¼ SW ¼ 3.0 ACRES SECTION 6 TOWNSHIP 4 NORTH, RANGE 29 EAST, W.M.

14 DAY STOP PROCESSING DEADLINE DATE: Friday, January 22, 2016

PUBLIC NOTICE DATE: Tuesday, January 12, 2016

30 DAY COMMENT DEADLINE DATE: Thursday, February 11, 2016

# GROUND WATER APPLICATION IN THE NAME OF WILLIAM AND LINDA WILSON T4N, R29E, SEC 6, W.M., UMATILLA COUNTY



#### LEGEND

PRIMARY IRRIGATION

3245 ac NWSW Sec 6



AREA OF PROPOSED IRRIGATION UNDER THIS APPLICATION

SCALE 1"= 400'

#### **LOCATION OF WELL**

WELL #1 (EXISTING) NW ¼ SW ¼, Section 6, 980' feet South and 1370' feet West from the Center of Section 6, T4N, R29E (W.M.)

X= Well #1

RECEIVED BY OWRD

AUG 21 2015

SALEM, OR



# Mailing List for IR Copies

Application #G-18131

IR Date: January 8, 2016

Original and map mailed to applicant:

WILLIAM L. AND LINDA WILSON, PO BOX 505, STANFIELD, OR 97875

SENT VIA EMAIL:

1. WRD -Watermaster # 5

Mailed 1/8/16 by KF

IR, Map, and Fact Sheet Copies sent to:

2. WRD - File # G-18131

3. WRD - Regional Manager: NCR

4. Department of Agriculture

Affected District (include "Notice of Initial Review--Affected District")

1. Hermiston Irrigation District, 366 E. Hurlburt Avenue, Hermiston OR 97838

Caseworker: Barbara Park

COPYSHT.IR

#### STATE OF OREGON

#### WATER RESOURCES DEPARTMENT

RECEIPT # 120304

725 Summer St. N.E. Ste. A SALEM, OR 97301-4172

INVOICE # .

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#### STATE OF OREGON WATER RESOURCES DEPARTMENT

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#### STATE OF OREGON WATER RESOURCES DEPARTMENT

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# Application for a Permit to Use

# **Ground Water**



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900 www.wrd.state.or.us

## SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information NAME	PHONE (HM	M)			
WILLIAM and Lind	a la	ILSON		54128	19-0247
PHONE (WK)	CE	LL		FAX	
		5417	20-4610		
79897 Riker Lane	T	O BOX	505 Stanfiel	d OR. 978	75
CITY	STATE	ZIP	E-MAIL*		
Hermiston	OB	97838	billand	linda@br	71. net
O					
Organization Information  NAME			PHONE	FAX	
TANK					
ADDRESS				CELL	
oum.	OTATE	ZIP	E-MAIL*		
CITY	STATE	ZIP	E-MAIL		
		File III			
Agent Information – The agent is authorize	d to repre	esent the app			cation.
AGENT / BUSINESS NAME			PHONE	FAX	
ADDRESS				CELL	
CITY	STATE	ZIP	E-MAIL*		
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#### SECTION 2: PROPERTY OWNERSHIP

convey	ed, and used.
√ Yes	<ul> <li>☑ There are no encumbrances.</li> <li>☐ This land is encumbered by easements, rights of way, roads or other encumbrances.</li> </ul>
□ No	<ul> <li>☐ I have a recorded easement or written authorization permitting access.</li> <li>☐ I do not currently have written authorization or easement permitting access.</li> <li>☐ Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).</li> <li>☐ Water is to be diverted, conveyed, and/or used only on federal lands.</li> </ul>

Please indicate if you own all the lands associated with the project from which the water is to be diverted,

List the names and mailing addresses of all affected landowners (attach additional sheets if necessary).

You must provide the legal description of: 1. The property from which the water is to be diverted, 2. Any property crossed by the proposed ditch, canal or other work, and 3. Any property on which the water is to be used as depicted on the map.

#### SECTION 3: WELL DEVELOPMENT

		IF LESS T	THAN 1 MILE:
WELL NO.	NAME OF NEAREST SURFACE WATER	DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
1.	Umat 5551		

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (attach additional sheets if necessary).

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Revised 2/1/2012 G-18131 Ground Water/4

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#### SECTION 3: WELL DEVELOPMENT, CONTINUED

Total maximum rate requested:	16.8	(each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual
volumes in the table below).		

The table below must be completed for each source to be evaluated or the application will be returned. If this is an existing well, the information may be found on the applicable well log. (If a well log is available, please submit it in addition to completing the table.) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner to obtain the necessary information.

										PRO	POSED U	USE	
OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL- SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
1.		X	Umat 5551		6'	+1-481	none	0-20 Betanite	5-28-91	ALLUVIAL	51'		18
											BEC	FIVED F	Y OWRD
												AUG 21	2013
												SALEM	OR

<sup>\*</sup> Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.

Revised 2/1/2012 Ground Water/5 WR

<sup>\*\*</sup> A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.

<sup>\*\*\*</sup> Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

#### **SECTION 4: WATER USE**

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Irrigation	march 1 to oct. 31	18
	te that 15,000 gallons per day for single or group	

For irrigation use only: Please indicate the number of primary and supplements	al acres to be irrigated (must match map).				
Primary: 3 Acres Supplemental	:Acres				
List the Permit or Certificate number of the underlying	primary water right(s):				
Indicate the maximum total number of acre-feet you expect to use in an irrigation season:					
<ul> <li>If the use is municipal or quasi-municipal, attach</li> </ul>	Form M				
If the use is domestic, indicate the number of households:					
If the use is mining, describe what is being mined a	and the method(s) of extraction:				

#### **SECTION 5: WATER MANAGEMENT**

#### A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

M Pump (give norsepower and type): 3 HD.	Judmersible
Other means (describe):	

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water.

#### B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)

3"main to 3/4" risers

#### C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

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## SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water in a reservoir, this section for each reservoir).	complete this section (if more than one reservoir, reproduce
Reservoir name:	Acreage inundated by reservoir:
Use(s):	
Volume of Reservoir (acre-feet): Dam hei	
Note: If the dam height is greater than or equal to 10.0' ab engineered plans and specifications must be approved prior	ove land surface AND the reservoir will store 9.2 acre feet or mo or to storage of water.
SECTION 7: USE OF STORED GROUND WATER	R FROM THE RESERVOIR
If you would like to use stored ground water from the reproduce this section for each reservoir).	eservoir, complete this section (if more than one reservoir,
Annual volume (acre-feet):	
USE OF STORED GROUND WATER	PERIOD OF USE
SECTION 8: PROJECT SCHEDULE	
Date construction will begin:	
Date construction will be completed:	
Date beneficial water use will begin: MARCH	1
SECTION 9: WITHIN A DISTRICT	
Check here if the point of diversion or place of use a district.	are located within or served by an irrigation or other water
Irrigation District Name Helmiston Imagation District	Address
City Hermiston	State OREGON Zip 97838

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Revised 2/1/2012 G-1813/

Ground Water/7

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#### **SECTION 10: REMARKS**

Use this space to clarify any information you have provided in the application (attach additional sheets if necessary).

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SALEM, OR

# **Land Use Information Form**



### NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

#### This form is NOT required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; OR
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and <u>all</u> of the following apply:
  - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
  - b) The application involves a change in place of use only;
  - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; and
  - d) The application involves irrigation water uses only.

## NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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AUG 21 2015

## **Land Use**

# **Information Form**



Oregon Water Resources Department Suite A 1266

The same of the sa	725 Summer Street NE, Salem, Oregon 97301- (503) 986-0900 www.wrd.state.or.us
_	- Last

Applicant: WILLIAM AND LINDA WILSON

Mailing Address: PO Box 505

STANFIELD, OR 97875 \_\_\_\_\_State

Daytime Phone: <u>541</u>. 289. 0247

#### A. Land and Location

111-

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	1/4 1/4	Tax Lot#	Plan Designation (e.g., Rural Residential/RR-5)		Water to be:		Proposed Land Use:
4N	29E	6	4631W	1300		10 Diverted	Conveyed	⊠ Used	Irr. Dom.
4N	29E	6		1200		☑ Diverted	☑ Conveyed	☑ Used	166.
						□ Diverted	☐ Conveyed	□ Used	
						□ Diverted	☐ Conveyed	☐ Used	

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Umatilla C	pinua				
B. Description of	Proposed Us	<u>se</u>			
Type of application to l	be filed with the	Water Resources Depa	artment:		
☑ Permit to Use or Store ☐ Limited Water Use Lie		ater Right Transfer location of Conserved Wat		nt or Ground Water Registrer	ation Modification
Source of water: □ Res	servoir/Pond	☑ Ground Water	☐ Surface Water (name)		
Estimated quantity of w	vater needed: 11	22	□ cubic feet per second	☐ gallons per minute	□ acre-feet
Intended use of water: Briefly describe:	☑ Irrigation ☐ Municipal	☐ Commercial ☐ Quasi-Municipal		☑ Domestic for ⊥ househ ☐ Other	old(s)
application i	s for gre gutton 1	und water use awn cend p	e from existing	ng well, for p	Drimary H.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department. RECEIVED BY OWRD

See bottom of Page 3. →

AUG 21 2015

# For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information	Please	check the	appropriate	box below and	provide the	requested	information
--	--------	-----------	-------------	---------------	-------------	-----------	-------------

Land uses to be served by the proposed water regulated by your comprehensive plan. Cite a	uses (including proposed construction) pplicable ordinance section(s): U	are allowed CDC Sec	outright or are not tion 152.130			
☐ Land uses to be served by the proposed water approvals as listed in the table below. (Please already been obtained. Record of Action/land have been obtained but all appeal periods in the proposed water to be approved to the proposed water to be appeal of the proposed water to be appeal below.	attach documentation of applicable la l-use decision and accompanying find	nd-use appro ings are suffi	ovals which have			
Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use	: Approval:			
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued			
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued			
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued			
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued			
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued			
THE PROPOSED USE COMPLIES WIT	TH UCDC SEC 152.130					
ROBERT WALDHER, PLANN Name: Title:	EK CIL 272	(.061	~ In 16			
Signature: Robert T Waldher	Signature: Robert T Waldher Phone: Date:					
Government Entity: UMATILLA COUNTY	PLANNING DEPT.					
Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant, you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.						
Receipt for Reques	st for Land Use Information		<u> Lo</u>			
Applicant name:		R	ECEIVED BY OWRI			
City or County:						
Signature:	Phone:	Date:	SALEM, OR			

Ground Water/12

WR

Revised 3/4/2010 G-18/31

Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery
Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)
Other

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#### WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, That TIFFANY L. STUBBS and RICHARD D. STUBBS, not as tenants in common, but with the right of survivorship

hereinafter called grantor, for the consideration hereinafter stated, to grantor paid by

WILLIAM L. WILSON and LINDA L. WILSON, husband and wife, as tenants by the entirety

hereinafter called grantee, does hereby grant, bargain, sell and convey unto the said grantee and grantee's heirs, successors and assigns, that certain real property, with the tenements, hereditaments and appurtenances thereunto belonging or appertaining, situated in the County of UMATILLA and State of Oregon, described as follows, to-wit:

SEE EXHIBIT A WHICH IS MADE A PART HEREOF BY THIS REFERENCE

#### RECEIVED

OCT 2 1 2004

RECORDS

To Have and to Hold the same unto the said grantee and grantee's heirs, successors and assigns forever. And said grantor hereby covenants to and with said grantee and grantee's heirs, successors and assigns, that grantor is lawfully seized in fee simple of the above granted premises, free from all encumbrances except

Subject to any and all easements, restrictions and covenants of record, AS SET FORTH ON REVERSE.

and that grantor will warrant and forever defend the said premises and every part and parcel thereof against the lawful claims and demands of all persons whomsoever, except those claiming under the above described encumbrances.

The true and actual consideration paid for this transfer, stated in terms of dollars, is \$117,500.00.

\*However, the actual consideration consists of or includes other property or value given or promised which is (the whole/part of the) consideration (indicate which).\* - (The sentence between the symbols \*, if not applicable should be deleted. See ORS 93.030.)

In construing this deed and where the context so requires, the singular includes the plural and all grammatical changes shall be implied to make the provisions hereof apply equally to corporations and to individuals.

In Witness Whereof, the grantor has executed this instrument this 20 day of

OCTOBER 2004 ; if a corporate grantor, it has caused its name to be signed and seal affixed by its officers, duly authorized thereto by order of its board of directors.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS, BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30,930.

RICHARD D. STUBBS

STATE OF OREGON

County of UMATILLA

20th BE IT REMEMBERED, That on this day of\_ OCTOBER me, the undersigned, a Notary Public in and for said County and State, personally appeared the within named TIFFANY L. STUBBS and RICHARD D. STUBBS

known to me to be the identical individual s described in and who executed the within instrument and acknowledged to they executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

NEW TOWN OFFICIAL SEAL
ROSA L TORRES

NOTARY PUBLIC - OREGON
COMMISSION NO. 352421
MY COMMISSION EXPRES JAN 1 7888

My Commission expires

our Notary Public for Oregon.

County .

affixed.

Name

STATE State of Oregon

TIFFANY L. STUBBS

Grantor's Name and Address WILLIAM L. WILSON PO BOX 505 STANFIELD, OR 97875

Grantee's Name and Address After recording return to: PIONEER ESCROW, INC.

PO BOX 187 HERMISTON, OR 97838

Until a change is requested, all tax statements shall be sent to the following address.

6-10131

for Recorder's Use

I cer County of Umatilla was rece This instrument was received day of \_ and recorded on 18-21-84 at 11:85 book/red in the record of instrument code type DE-ND page ment/ml Records

Witi Instrument Number Office of County Records RECEIVED BY OWRD

AUG 21 2015

SALEM, OR



#### TRACT I:

Beginning at the Southeast corner of the Northwest Quarter of the Southwest Quarter of Section 6, Township 4 North, Range 29, East of the Willamette Meridian, Umatilla County, Oregon; thence South 89° 28' 40" West along the South line of said Northwest Quarter, 510.39 feet to the Southwest corner of that tract of land conveyed to Thomas Whipple, et ux, recorded in Book 349, Page 398, Deed Records, Umatilla County, Oregon; thence North 0° 05' 00" West along the West line of said Whipple tract, 170.66 feet to the Northwest corner thereof and the true point of beginning for this description; thence continuing North 0° 05' 00" West, 170.66 feet; thence East, parallel to the South line of the Northwest Quarter of the Southwest Quarter, 291.96 feet; thence North 0° 05' 00" West, 100 feet; thence East, parallel to the South line of the Northwest Quarter of the Southwest Quarter, 218.58 feet to a point on the East line of the Northwest Quarter of the Southwest Quarter of said Section 6; thence South along said East line of the Northwest Quarter of the Southwest Quarter of said Section 6; thence South along said East line of the Northwest Corner of said Whipple tract; thence West along the North line of said Whipple tract; thence West along the North line of said Whipple tract, 510.39 feet to the point of beginning;

#### TRACT II:

A 30 foot easement for ingress, egress and utilities, including the terms and provisions thereof, as disclosed by Agreement for Easement, recorded September 4, 1991 in Microfilm R-210, Page 447, Office of County Records, Umatilla County, Oregon.

#### SUBJECT TO:

- The premises herein described are within the boundaries of the Hermiston Irrigation District and this property is therefore subject to all easements, levies and assements thereof.
- Road maintenance agreement, including the terms asnd provisions thereof.

by : Al Koppany, et al

Recorded : December 24, 2001, Instrument No. 2001-4030169, Office of

County Records, Umatilla County, Oregon.

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SALEM, OR

\$6

#### STATE OF OREGON

#### WATER WELL REPORT (as required by ORS 537.765)



(START CARD) # 25219

(as required )		1 6	-	- 107			min min		_
(1) OWNER	11	Well Nur	mber:	(9) LOCATION	OF WELL by le	egal de	escript	ion:	*
Name Attilo	e Koppa	ny	-		la Latitude				
Address Rt.	3, 180	130/3 H	7- 0- 0-0		NorS. Range			_EorW.	WM.
	iston	State OR	Zip 9-7838	Section	-NW v	Su	24		100
(2) TYPE OF	F WORK:			Tax Lot _/300	Lot Block	V.	Subd	ivision	TAT
New Well	Deepen 🗌	Recondition .	Abandon	Street Address of W	ell (or nearest address)	COPPO	ny L	ane	
(3) DRILL M				1	iston, OR		38		
	Rotary Mud	_ Cable .			VATER LEVEL:				0 0
Other					below land surface.		Date_	5-2	8-91
(4) PROPOS	ED USE:				lb. per squ				
		Industrial   Irrig		(11) WATER B	EARING ZONE	S:	(1)	• *	1910
☐ Thermal ☐	Injection [	.Qther		Depth at which water wa		12			
(5) BORE H	OLE CONSTI	RUCTION:							-
Special Construction	approval Yes No	Depth of Compl	eted Wellft.	From	To	The second of	nated Flow	Rate	SWL
Franciscos usad	Type	Amount		42	5/	ف ا	15		15
		SEAL							
HOLE Diameter From	To   Materia	I From To	Amount sacks or pounds				-		
10" 0	20 Benton	ite From To	14 sacks	(12) WELL LO	G:				
6" 20	5/		1	(12) WELLEO	G: Ground elevat	ion			
					Material .		From	То	SWL
		7- 5- 5		Sandy S	01/		0	4	
How was seal placed:	Method A	B D C D D	□ E	Sand			1	42	
Parkell plant	red 3/3" 9	e Minis		Gravel			42	51	WB
		ft Material ftSize of gravel_			**			-	
(6) CASING	From To G	auge   Steel Practic	Welded Threaded						14
Casing Co."	+1 48 .	auge Steel Plastic	. A					-	
					***				
					mear	1115	n		
Liner:					BELLE	IVE	U		
	-,10				# W 1.2 - O 10.				
Final location of sho				*	JUN 2	7 199			
(7) PERFOR	ATIONS/SC	REENS:		1					
Perforation		79 1	9: 11	-	WATER RESOL				
☐ Screens	Туре	Materia	al		SALEM, K	HEE	MED.	BY O	WRD
From To	Slot	Tele/pipe Diameter size	Casing Liner						
1.0	Jac Number	Size Size	Casing Liner			AI	IG 21	2015	
					_	· M(	U 2 1	2013	
							Bay many	7,0000,000	
					*	S	ALEN	, OR	
_				Date started 5-	28-9/ Com	pleted _	5-	28-9	1
(8) WELL T	ESTS: Minim	um testing time is			Well Constructor Conse work I performed of			on alter	ation c
☐ Pump	☐ Bailer	Air	Flowing Artesian	abandonment of this	well is in complian	ce with	Oregon v	well con	struction
Yield gal/min	Drawdown	Drill stem at	Time	standards. Materials knowledge and belief.	used and information	reported	above ar	e true to	my best
35		61				v	VWC No	mber	3 -
_00_			1 hr.	Signed			ate		
-			-		110-1-1-	-			
Towns	- lol OCF	n David A	P. 1		Il Constructor Certificiality for the constru			or shan	donner
Temperature of water Was a water analysis	The same of the sa	Depth Artesian Flor	w round	work performed on th	ais well during the cor	struction	dates r	eported a	above. al
		for intended use?	Coo little	work performed du	ring this time is in	n compl	iance w	ith Ore	gon wel
		ored Other		belief.	ds. This report is true				edge and
	0 2 .000. 2 00.			Signed and	is Wal				1-91
		RESOURCES DEPART	MENT COCC	Signed The Convergence		-	aueC	2 0-1	

## Application for a Permit to Use

# Ground Water



#### Water-Use Permit Application Processing

#### 1. Completeness Determination

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050 (www.oregon.gov/owrd/law). The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

#### 2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus \$200. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

#### 3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at www.oregon.gov/owrd. The public comment period is 30 days from publication in the weekly notice.

#### 4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

#### 5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is \$350.00 for the applicant and \$700.00 for non-applicants. Protests are filed on approximately 10% of Proposed Final Orders. If a protest is filed, the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

#### 6. Final Order Issued

If no protests are filed, the Department issues a Final Order consistent with the PFO. If the application is approved, a permit is issued that specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate.

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AUG 21 2015

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Revised 2/1/2012 G-18131 Ground Water/1

SALEM, OR

# Dear Customer Service Group:

This application has received our assistance here in Watermaster District
by <u>Curtis Cooley</u> Phone # (541) 278-5456 (Name)
Please let us know if there is anything else that might be needed.
Assistance was provided in the preparation of the:
□ Other

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# Minimum Requirements Checklist Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.615)

## Include this checklist with the application

Check that each of the following items is included. The application will be returned if all required items are not included. If you have questions please call the Water Rights Customer Service Group at (503) 986-0900.

includ	led. If you have questions, please can the water regins customer betwee croup at (5	
1	SECTION 1: applicant information and signature	
1	SECTION 2: property ownership	
V	SECTION 3: well development	
J	SECTION 4: water use	
S S S S S	SECTION 5: water management	
	SECTION 6: storage of groundwater in a reservoir	
	SECTION 7: use of stored groundwater from the reservoir	
	SECTION 8: project schedule	
	SECTION 9: within a district	
	SECTION 10: remarks	
	Attachments:	
V	Land Use Information Form with approval and signature (must be an original) or sig	ned receipt
	Provide the legal description of: (1) the property from which the water is to be divert crossed by the proposed ditch, canal or other work, and (3) any property on which the as depicted on the map.	
Ø	Fees - Amount enclosed: \$1450,00. See the Department's Fee Schedule at <a href="https://www.oregon.gov/owrd">www.oregon.gov/owrd</a> or call (503) 986-0900	).
	Provide a map and check that each of the following items is included	1:
<b>V</b>	Permanent quality and drawn in ink	
1	Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)	RECEIVED BY OWRE
V	North Directional Symbol	AUG 21 2015
<b>V</b>	Township, Range, Section, Quarter/Quarter, Tax Lots	Aud 2 2 2010
V	Reference corner on map	SALEM, OR
V	Location of each well, and/or dam if applicable, by reference to a recognized public (distances north/south and east/west). Each well must be identified by a unique name	land survey corner and/or number.
	Location of each well, and/or dam if applicable, by reference to a recognized public (distances north/south and east/west). Each well must be identified by a unique name Indicate the area of use by Quarter/Quarter and tax lot clearly identified	land survey corner e and/or number.
V V	(distances north/south and east/west). Each well must be identified by a unique name	e and/or number.
	(distances north/south and east/west). Each well must be identified by a unique name.  Indicate the area of use by Quarter/Quarter and tax lot clearly identified.  Number of acres per Quarter/Quarter and hatching to indicate area of use if for prime.	ary irrigation,

Revised 2/1/2012

G-18131

Ground Water/2

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