



State of Oregon
 Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 (503) 986-0900

Application for Permit Amendment

Part 1 of 5 – Minimum Requirements Checklist

This permit amendment application will be returned if Parts 1 through 5 and all required attachments are not completed and included.
 For questions, please call (503) 986-0900, and ask for Transfer Section.

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Check all items included with this application. (N/A = Not Applicable)

- Part 1 – Completed Minimum Requirements Checklist. **OWRD**
- Part 2 – Completed Application Map Checklist.
- Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3. Try the new online fee calculator at: http://apps.wrd.state.or.us/apps/misc/wrd_fee_calculator. If you have questions, call Customer Service at (503) 986-0801.
- Part 4 – Completed Applicant Information and Signature.
- Part 5 – Information about Permits to be Amended: **Number of permits to be amended: 1**
List the Permits here: g-17983
 Please include a separate Part 5 for each permit. (See instructions on page 6)
- Completed Permit Amendment Application Map (Does not have to be prepared by a Certified Water Right Examiner).
- N/A Request for Assignment Form and statutory fee. The request for assignment form has to be completed if the applicant is **not** the permit holder of record and needs to be assigned to the permit; **or** the landowner of the proposed place of use is **not** the permit holder of record and needs to be assigned to the permit (the Request for Assignment Form is available online at <https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>). Assignment is not needed if the applicant is the permit holder of record.
- N/A Affidavit(s) of Consent are required from all permit holder(s) of record if the permit is not assigned to the applicant **or** other permit holders of record that are not listed as applicants.
- N/A Oregon Water Resources Department’s Land Use Information Form with approval and signature (or signed land use form receipt stub) from each local land use authority in which water is to be diverted, conveyed, and/or used. Not required if water is to be diverted, conveyed, and/or used only on federal lands or if **all** of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone.
- N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation.
- N/A Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500 feet from the surface water source and more than 1000 feet upstream or downstream from the point of diversion. (ORS 540.531(2) or (3)).

(For Staff Use Only)

WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):

___ Application fee not enclosed/insufficient	___ Map not included or incomplete
___ Land Use Form not enclosed or incomplete	___ Additional signature(s) required
___ Other/Explanation _____	___ Part _____ is incomplete

Staff: _____ 503-986-0_____ Date: ___/___/___

Part 2 of 5 – Permit Amendment Map Checklist

Your permit amendment application will be returned if any of the map requirements listed below are not met.

Please be sure that the map you submit includes all the items listed below and meets the requirements of OAR 690-380-3100, however, the map does not have to be prepared by a Certified Water Right Examiner. Check all boxes that apply.

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- N/A If **more than three** permits are involved, separate maps for each permit.
- Permanent quality printed with dark ink on good quality paper.
- The size of the map can be 8½ x 11 inches, 8½ x 14 inches, 11 x 17 inches, or up to 30 x 30 inches. For 30 x 30 inch maps, one extra copy is required.
- A north arrow, a legend, and scale.
- The scale of the map must be: 1 inch = 400 feet, 1 inch = 1,320 feet, the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.
- Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines.
- Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
- Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads, and railroads.
- Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches.
- Existing place of use that includes separate hachuring for each water use permit, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the permit is being changed, a separate hachuring is needed for the portion of the permit left unchanged.
- N/A If you are proposing a change in place of use, show the proposed place of use with hachuring that includes separate hachuring for each permit, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
- Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water use permit.
- N/A If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example – 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

Part 3 of 5 – Fee Worksheet

FEE WORKSHEET for PERMIT AMENDMENT			
1	Base Fee (includes one type of change to one permit for up to 1 cfs)	1	\$1,160
2	Types of change proposed: <input type="checkbox"/> Place of Use <input checked="" type="checkbox"/> Point of Diversion/Appropriation Number of above boxes checked = <u>1</u> (2a) Subtract 1 from the number in line 2a = <u>0</u> (2b) <i>If only one change, this will be 0</i> Multiply line 2b by \$930 and enter » » » » » » » » » » » » » » »	2	0
3	Number of permits included in Permit Amendment <u>1</u> (3a) Subtract 1 from the number in 3a: <u>0</u> (3b) <i>If only one permit this will be 0</i> Multiply line 3b by \$520 and enter » » » » » » » » » » » » » » »	3	0
4	Do you propose to add or change a well, or change from a surface water POD to a well? <input type="checkbox"/> No: enter 0 » <input checked="" type="checkbox"/> Yes: enter \$410 »	4	410
5	Do you propose to change the place of use? <input checked="" type="checkbox"/> No: enter 0 on line 5 » <input type="checkbox"/> Yes: enter the cfs for the portions of the permits to be amended (see example below*): _____ (5a) Subtract 1.0 from the number in 5a above: _____ (5b) If 5b is 0, enter 0 on line 5 » If 5b is greater than 0, round up to the nearest whole number: _____ (5c) and multiply 5c by \$350, then enter on line 5 » » » » » » » » » » » » » » »	5	0
6	Add entries on lines 1 through 5 above » » » » » » » » » » Subtotal:	6	1570
7	Is this permit amendment: <input type="checkbox"/> necessary to complete a project funded by the Oregon Watershed Enhancement Board (OWEB) under ORS 541.932? <input type="checkbox"/> endorsed in writing by ODFW as a change that will result in a net benefit to fish and wildlife habitat? If one or more boxes is checked, multiply line 6 by 0.5 and enter on line 7 » If no box is applicable, enter 0 on line 7 » » » » » » » » » » » » » » »	7	0
8	Subtract line 7 from line 6 » » » » » » » » » Permit Amendment Fee:	8	1570

*Example for Line 5a calculation to transfer 45.0 acres of Primary Permit S-12345 (total 1.25 cfs for 100 acres) and 45.0 acres of Supplemental Permit S-87654 (1/80 cfs per acre) on the same land:

1. For irrigation calculate cfs for each permit involved as follows:
 - a. Divide total authorized cfs by total acres in the permit (*for S-12345, 1.25 cfs ÷ 100 ac*); then multiply by the number of acres to be changed to get the application cfs (*x 45 ac = 0.56 cfs*).
 - b. If the water right permit does not list total cfs, but identifies the allowable use as 1/40 or 1/80 of a cfs per acre; multiply number of acres proposed for change by either 0.025 (1/40) or 0.0125 (1/80). (*For S-87654, 45.0 ac x 0.0125 cfs/ac = 0.56 cfs*)
2. Add cfs for the portions of permits on all the land included in the application; however **do not count cfs for supplemental permits on acreage for which you have already calculated the cfs fee for the primary permit on the same land**. The fee should be assessed only once for each “on the ground” acre included in the application. (*In this example, blank 5a would be only 0.56 cfs, since both permits serve the same 45.0 acres. Blank 5b would be 0 and Line 5 would then also become 0*).

Part 4 of 5 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME City of Merrill		PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS P.O. Box 487		FAX NO.	
CITY Merrill	STATE Oregon	ZIP 97633	E-MAIL
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.			

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT/BUSINESS NAME Anderson Engineering & Surveying, Inc.		PHONE NO. 541-947-4407	ADDITIONAL CONTACT NO.
ADDRESS P.O. Box 28		FAX NO. 541-947-2321	
CITY LAKEVIEW	STATE Oregon	ZIP 97630	E-MAIL darryla@andersonengineering.com
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.			

Explain in your own words what you propose to accomplish with this permit amendment; and why:
 This permit amendment will move the water from the authorized well on the permit which has been abandoned to a newly drilled well 62 feet away from the authorized well.
 If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

Is the applicant the permit holder of record? Yes No

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If NO, include either:

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- A completed assignment form (with required statutory assignment fee), assigning all portion of the permit to the applicant(s), **OR**
- An affidavit of consent from the permit holder(s) of record that gives permission for the applicant to amend the permit.

Has the Completion ("C") Date of the permit(s) in this application expired? Yes No

If YES, this application will not be accepted by the Department.

If NO, what are the completion dates of the permit(s)? 4/3/2024

- If the permit completion date expires while the Permit Amendment Application is pending, the Department will not approve the Permit Amendment Application until an Extension of Time Application is approved for the permit.
- You may consider using the Reimbursement Authority process to expedite the processing of this Permit Amendment Application if the completion date of the permit expires within 6 months of the date of filing this application.

By my signature below, I confirm that I understand:

- Prior to Department approval of the permit amendment, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the permit is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Herald and News.



I (we) affirm that the information contained in this application is true and accurate.

Jack Carlton
Applicant Signature

Jack Carlton
Print Name (and Title if applicable)

councilor water/sewer
Date

Applicant Signature

Print Name (and Title if applicable)

Date

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I (we) affirm that the information contained in this application is true and accurate.

Applicant Signature

Print Name (and Title if applicable)

Date

Applicant Signature

Print Name (and Title if applicable)

Date

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Check one of the following:

- The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- The permit holder(s) of record will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to the permit holder(s) of record.

Check the appropriate box, if applicable:

- Check here if any of the permits proposed for amendment are or will be located within or served by an irrigation or other water district.

IRRIGATION DISTRICT NAME Klamath Irrigation District	ADDRESS 6640 KID Lane	
CITY Klamath Falls	STATE OR	ZIP 97603

- Check here if water for any of the permits supplied under a water service agreement or other contract for stored water with a federal agency or other entity.

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP



To meet State Land Use Consistency Requirements, you must list all local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME Klamath County	ADDRESS 305 Main Street	
CITY Klamath Falls	STATE OR	ZIP 97601

ENTITY NAME City of Merrill	ADDRESS P.O. Box 487	
CITY Merrill	STATE Oregon	ZIP 97633

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

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Part 5 of 5 – Water Use Permit Information

Please use a separate Part 5 for each permit being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

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PERMIT # G-17983

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Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)
(Note: If the POD/POA name is not specified in the permit, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized by the permit or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L-____)	Twp			Rng		Sec		1/4 1/4	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Well #1	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	KLAM 14959	41	S	10	E	11	NE	NE	1000	190 FEET SOUTH AND 414 FEET WEST FROM THE NE CORNER SECTION 11	
Well #3	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	KLAM 60224	41	S	10	E	11	NE	NE	1000	209 FEET SOUTH AND 473 FEET WEST FROM THE NE CORNER SECTION 11	

Check all type(s) of change(s) proposed below (change “CODES” are provided in parentheses):

- | | |
|---|--|
| <input type="checkbox"/> Place of Use (POU) | <input checked="" type="checkbox"/> Point of Appropriation/Well (POA) |
| <input type="checkbox"/> Point of Diversion (POD) | <input type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD) | <input type="checkbox"/> Surface water POD to Ground Water POA (SW/GW) |

Will all of the proposed changes affect the entire water use permit?

- Yes** Complete only the proposed (“to” lands) section of Table 2 on the next page. Use the “CODES” listed above to describe the proposed changes.
- No** Complete all of Table 2 to describe the portion of the permit to be changed.

For a change in place of use:

Does the permit holder of record own or control the land TO which the place of use is being moved?

- Yes** **No**

If NO, the landowner of the land TO which the place of use is being moved must be assigned to the permit as a permit holder of record by submitting a completed Request for Assignment form and the required statutory fee for an assignment.

Is the proposed place of use contiguous to the authorized place of use? **Yes** **No**

The permitted place of use can be moved only to lands that are contiguous to the authorized place of use unless the change to non-contiguous lands is in furtherance of mitigation or conservation efforts undertaken for the purposes of benefiting a species listed as sensitive, threatened, or endangered under ORS 496.171 to 496.192 or the federal Endangered Species Act of 1973 (16 U.S.C. 1531 to 1544), as determined by the listing agency. Contiguous land being either adjacent land or land separated from the land to which a permit is authorized by roads, utility corridors, irrigation ditches or publicly owned rights of way.

Please use and attach additional pages of Table 2 as needed.
See page 6 for instructions.

Do you have questions about how to fill-out the tables?
Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Use Permit # G-17983

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change.
If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.											Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.								
Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acre (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date	Twp	Rng		Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acre (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date		
EXAMPLE																				
2	S	9	E 15 NE NW	100		15.0	POD #1 POD #2		POU/POD	2	S	9	E 15 NW NW	100	1	10.0	POD #5			
"	"	"	"	"	"	EXAMPLE	"		"	2	S	9	E 15 SW NW	200		5.0	POD #6			
									POA	41	S	10	E 1 NE SW				Well #3	12/28/2007		
									POA	41	S	10	E 1 NW SW				Well #3	12/28/2007		
									POA	41	S	10	E 1 SW SW				Well #3	12/28/2007		
									POA	41	S	10	E 1 SE SW				Well #3	12/28/2007		
									POA	41	S	10	E 1 NW SE				Well #3	12/28/2007		
									POA	41	S	10	E 1 SW SE				Well #3	12/28/2007		
									POA	41	S	10	E 2 NE SW				Well #3	12/28/2007		
									POA	41	S	10	E 2 SE SW				Well #3	12/28/2007		
									POA	41	S	10	E 2 NE SE				Well #3	12/28/2007		
TOTAL ACRES									TOTAL ACRES											

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Please use and attach additional pages of Table 2 as needed.
See page 6 for instructions.

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Table 2. Description of Changes to Water Use Permit # G-17983

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change.
If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.										Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.											
Twp	Rng	Sec	¼	¼	Tax Lot	Gvt Lot or DLC	Acre (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date		Twp	Rng	Sec	¼	¼	Tax Lot	Gvt Lot or DLC	Acre (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date		
EXAMPLE																						
2	S	9	E	15	NW	100		15.0	POD #1 POD #2	POU/POD	2	S	9	E	15	NW	NW	100	1	10.0	POD #5	
"	"	"	"	"	"	"	"	EXAMPLE	"	"	2	S	9	E	15	SW	NW	200		5.0	POD #6	
										POA	41	S	10	E	2	NW	SE				Well #3	12/28/2007
										POA	41	S	10	E	2	SW	SE				Well #3	12/28/2007
										POA	41	S	10	E	2	SE	SE				Well #3	12/28/2007
										POA	41	S	10	E	11	NE	NE				Well #3	12/28/2007
										POA	41	S	10	E	11	NW	NE				Well #3	12/28/2007
										POA	41	S	10	E	11	NE	NW				Well #3	12/28/2007
										POA	41	S	10	E	12	NW	NE				Well #3	12/28/2007
										POA	41	S	10	E	12	NE	NW				Well #3	12/28/2007
										POA	41	S	10	E	12	NW	NW				Well #3	12/28/2007

Please use and attach additional pages of Table 2 as needed.
See page 6 for instructions.

Do you have questions about how to fill-out the tables?
Contact the Department at 503-986-0900 and ask for Transfer Staff.

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Table 2. Description of Changes to Water Use Permit # G-17983

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.											Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.								
Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acre (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date	Twp	Rng		Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acre (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date		
EXAMPLE																				
2	S	9	E 15 NE NW	100		15.0	POD #1 POD #2		POU/POD	2	S	9	E 15 NW NW	100	1	10.0	POD #5			
"	"	"	" " " "	"	"	EXAMPLE	"		"	2	S	9	E 15 SW NW	200		5.0	POD #6			
									POA	41	S	10	E 12 SE NW				Well #3	12/28/2007		
									POA											
									POA											
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									POA											
									POA											
TOTAL ACRES										TOTAL ACRES										

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Additional remarks: Permit G-17983 lists the place of use as "within the service boundary of the City of Merrill". No acreages or ¼ ¼ listed on permit.

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Are there other water rights certificates, water use permits or ground water registrations associated with the "from" or "to" lands? Yes No

If YES, list the other certificate, permit, or ground water registration numbers: 27530

 If the permit(s) are for irrigation or supplemental irrigation use, other water rights existing on the same land for irrigation that are subject to transfer must either change concurrently or be cancelled. Any change to a water right certificate or ground water registration must be filed separately in a water right transfer application or ground water registration modification application, respectively.

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map. (Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx)

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well, OWRD Well ID Tag No. L-____	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well - specific rate (cfs or gpm). If less than full rate of water right
Well #1	Yes	KLAM 14959 KLAM 60208	1012	12	760	0-760	NA	33	basalt	1.0 cfs
Well #3	Yes	L-131682 KLAM 60224	1050	14	0-902	0-32	NA	67	basalt	1.0 cfs

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Land Use Information Form



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

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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 **all** 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.

Land Use Information Form



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

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Applicant(s): City of Merrill

Mailing Address: P.O. Box 487

City: Merrill

State: OR

Zip Code: 97633

Daytime Phone: 541-798-5808

A. Land and Location

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	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:	Proposed Land Use:
<u>41 S</u>	<u>10 E</u>	<u>1</u>		_____	C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			NE SW				
<u>41 S</u>	<u>10 E</u>	<u>1</u>		_____	C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			NW SW				
<u>41 S</u>	<u>10 E</u>	<u>1</u>		_____	C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			SW SW				
<u>41 S</u>	<u>10 E</u>	<u>1</u>		_____	C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			SE SW				
<u>41 S</u>	<u>10 E</u>	<u>1</u>		_____	C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			NW SE				
<u>41 S</u>	<u>10 E</u>	<u>1</u>		_____	C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			SW SE				
<u>41 S</u>	<u>10 E</u>	<u>2</u>		_____	C- Commercial R - Residential P-Public	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			NE SW				

			RECEIVED		I - Industrial Rural Residential		
<u>41 S</u>	<u>10 E</u>	<u>2</u>	MAY 17 2019 OWRD	SE SW	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>2</u>		NE SE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>2</u>		NW SE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>2</u>		SW SE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>2</u>		SE SE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>11</u>		NE NE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>11</u>		NW NE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>11</u>		NE NW	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>12</u>		NW NE	C - Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>41 S</u>	<u>10 E</u>	<u>12</u>		NE NW	C - Commercial	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>

					R - Residential P-Public I - Industrial Rural Residential		
<u>41 S</u>	<u>10 E</u>	<u>12</u>			C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			NW NW				
<u>41 S</u>	<u>10 E</u>	<u>12</u>			C- Commercial R - Residential P-Public I - Industrial Rural Residential	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>
			SE NW				

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

City of Merrill
Klamath County

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water
 Water Right Transfer
 Permit Amendment or Ground Water Registration Modification
 Limited Water Use License
 Allocation of Conserved Water
 Exchange of Water

Source of water: Reservoir/Pond Ground Water Surface Water (name) _____

Estimated quantity of water needed: 1.0 cubic feet per second gallons per minute acre-feet

Intended use of water: Irrigation Commercial Industrial Domestic for _____ household(s)
 Municipal Quasi-Municipal Instream Other _____

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Briefly describe:

Amending a water right permit to move water from the authorized well on the permit, which has been abandoned, to a newly drilled well 62 feet from the old well

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.

See bottom of Page 3. →

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

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

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:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Name: Martin J. Hicks Title: Planning Commission
 Signature: *Martin J. Hicks* Phone: 541-798-5727 Date: 5-10-19
 Government Entity: City of Merrill

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If 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 Request for Land Use Information

Applicant name: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____

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STATE OF OREGON
COUNTY OF KLAMATH

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF MERRILL
PO BOX 487
MERRILL, OR 97633

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

APPLICATION FILE NUMBER: G-16989

SOURCE OF WATER: WELL 1 (KLAM 14959) IN LOST RIVER BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.0 CUBIC FOOT PER SECOND

PERIOD OF USE: JANUARY 1 THROUGH DECEMBER 31

DATE OF PRIORITY: DECEMBER 28, 2007

WELL LOCATION:

NE ¼ NE ¼, SECTION 11, T41S, R10E, W.M.; 190 FEET SOUTH AND 414 FEET
WEST FROM NE CORNER, SECTION 11

THE PLACE OF USE IS LOCATED AS FOLLOWS:

WITHIN THE SERVICE BOUNDARY OF THE CITY OF MERRILL

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter or other suitable measuring device as approved by the Director at each point of appropriation. The permittee shall maintain the meter or measuring device in good working order.
- B. The permittee shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.

- C. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where any meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

The Department requires the water user to obtain, from a qualified individual (see below), and report annual static water levels for each well on the permit. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

The permittee shall report an initial March static water-level measurement once well construction is complete and annual measurements thereafter. Annual measurements are required whether or not the well is used. The first annual measurement will establish a reference level against which future measurements will be compared. However, the Director may establish the reference level based on an analysis of other water-level data. The Director may require the user to obtain and report additional water levels each year if more data are needed to evaluate the aquifer system.

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. Measurements shall be submitted on forms provided by, or specified by, the Department. Measurements shall be made with equipment that is accurate to at least the standards specified in OAR 690-217-0045. The Department requires the individual performing the measurement to:

- A. Associate each measurement with an owner's well name or number and a Department well log ID; and
- B. Report water levels to at least the nearest tenth of a foot as depth-to-water below ground surface; and
- C. Specify the method of measurement; and
- D. Certify the accuracy of all measurements and calculations reported to the Department.

The water user shall discontinue use of, 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 restricted use shall continue until the water level rises above the decline level which triggered the action or 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 causing substantial interference with senior water rights. The water user shall not 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.

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.

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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 begin 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 construction deadline to begin 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 April 30th, 2019



Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

KLAM 14959

RECEIVED KLAM 14959 JUL 23 1962 STATE ENGINEER WATER WELL REPORT SALEM, OREGON STATE OF OREGON

MAY 17 2019

(Page 1)

OWRD

State Well No. 41/10-11A

State Permit No.

File Original and First Copy with the STATE ENGINEER, SALEM, OREGON

(1) OWNER: CITY OF MERRILL Merrill, Oregon

(2) LOCATION OF WELL: County Klamath Owner's number, if any 2 NE 1/4 NE 1/4 Section 11 T. 41 S R. 10 E W.M. Lot 3, 120' SO. Center of Front St., Original Map, City of Merrill, Oregon 26' West of East Line

(3) TYPE OF WORK (check): New Well [x] Deepening [] Reconditioning [] Abandon []

PROPOSED USE (check): Domestic [] Industrial [] Municipal [x] Irrigation [] Test Well [] Other []

(5) TYPE OF WELL: Rotary [] Driven [] Cable [x] Jetted [] Dug [] Bored []

(6) CASING INSTALLED: 14" Diam. from 240 ft. to 462 ft. Gage 1/4 inch 12" Diam. from 0 ft. to 760 ft. Gage 1/2 inch

(7) PERFORATIONS: Perforated? [] Yes [x] No Type of perforator used SIZE of perforations in. by in. perforations from ft. to ft.

(8) SCREENS: Well screen installed [] Yes [x] No Manufacturer's Name Model No. Slot size Set from ft. to ft.

(9) CONSTRUCTION: Was well gravel packed? [] Yes [x] No Size of gravel: Gravel placed from ft. to ft. Was a surface seal provided? [x] Yes [] No To what depth? 760 ft. Material used in seal- Cement Did any strata contain unusable water? [] Yes [x] No Type of water? Depth of strata Method of sealing strata off Cemented off.

(10) WATER LEVELS: Static level 33 ft. below land surface Date June 1962 Artesian pressure lbs. per square inch Date

Log Accepted by: [Signed] Date 19 (Owner)

(11) WELL TESTS: Drawdown is amount water level is lowered below static level. Was a pump test made? [x] Yes [] No If yes, by whom? Interstate Yield: 2450 gal./min. with 19 ft. drawdown after 8 hrs.

(12) WELL LOG: Diameter of well 12 inches. Depth drilled 1012 ft. Depth of completed well 1012 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

Table with 3 columns: MATERIAL, FROM, TO. Rows include Top Soil, Hard pan (chalk conglomerate), Brown Chalk, Grey Sand, Green Chalk, Sand fine, Grey Chalk, Green & Brown chalk, Black Sand fine, Dark Grey Chalk, Green Chalk, Grey Chalk, Grey Sand, Grey Chalk, Sand Grey Black, Grey Chalk, Blue Chalk, Grey Chalk, Green Chalk, Grey Chalk, Green Chalk, Black lava Rock, Semi hard grey sand, Grey Chalk, Green Chalk.

Work started 19 Completed 19

(13) PUMP: Manufacturer's Name Type: H.P.

Well Driller's Statement: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME (Person, firm, or corporation) (Type or print) Address Driller's well number [Signed] Walter L. Wilson (Well Driller) License No. 169 Date 19

MAY 17 2019

KLAM
14959

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JUL 23 1962

KLAM 14959

WATER WELL REPORT

STATE OF OREGON

OWRD

State Well No. 41/10-11A

41/10-11A

State Permit No.

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

STATE ENGINEER

(1) OWNER: SALEM, OREGON *Page #2*

Name: CITY OF MERRILL
Address: Merrill, Oregon

(2) LOCATION OF WELL:

County _____ Owner's number, if any— _____
1/4 Section T. R. W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
** abandonment, describe material and procedure in Item 11.

PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(6) CASING INSTALLED:

Threaded Welded
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? Yes No
Type of perforator used _____
SIZE of perforations in. by _____ in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed Yes No
Manufacturer's Name _____
Type _____ Model No. _____
Slot size _____ Set from _____ ft. to _____ ft.
Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.
Was a surface seal provided? Yes No To what depth? _____ ft.
Material used in seal— _____
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:

Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: _____
[Signed] _____ Date July 5, 1962
City of Merrill

(11) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom? -
Yield: gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "
" " " " " "
Bailer test gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(12) WELL LOG: Diameter of well _____ 12 _____ inches.

Depth drilled 1012 ft. Depth of completed well 1012 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Grey Chalk	540	550
Green Chalk	550	880
Grey Chalk	880	891
Sand semi hard grey	891	900
Red Lava Rock	900	905
Grey Lava rock	905	927
Grey Lava (crevice) (Bit left)	927	932
Grey Lava very hard	932	939
Broken Lava	939	942
Grey Lava	942	947
Grey lava broken (w/ sand in it)	947	950
Grey lava lava & blue lava	950	975
Lava & Black porous cinders (water)	975	995
Black Lava	995	1000
Lava Broken porous (water)	1000	1012

(Ten inch bit was drilled by at 932 feet)
(Casing cemented in at bottom of twelve inch from 763 back up to 752. Five yards of cement put in at 184 to 189 feet. The 18 inch hole from 189 to 20 feet was filled with fine gravel around the 12 inch casing. Three yards of cement was put in from 20 feet to ground level. A 18 inch hole was drilled from 6 to 390. 14 inch casing is from 240 to 262. 12 inch is run thru the 14 inch to 760 feet.

Work started July 29 1960. Completed June 1, 1962

(13) PUMP:

Manufacturer's Name Layne & Bowler
Type: Turbine H.P. 75

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME: WILSON DRILLING CONTRACTOR.
(Person, firm, or corporation) (Type or print)
Address: Box 136 Merrill, Oregon

Driller's well number _____
[Signed] _____ (Well Driller)
License No. 169 Date June 29, 1962

KLAM 60208

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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL I.D. LABEL# 18-06070R
START CARD # 1039334
ORIGINAL LOG # KLAMATH 14959

MAY 17 2019

KLAM 60208 OWRD

(1) LAND OWNER
Owner Well I.D.
First Name
Last Name
Company City of Merrill
Address 301 Second Street
City Merrill State OR Zip 97633

(2) TYPE OF WORK
New Well
Deepening
Conversion
Alteration (complete 2a & 10)
Abandonment (complete 5a)

(2a) PRE-ALTERATION
Dia + From To Gauge Stl Plstc Wld Thrd
Casing:
Material From To Amt sacks/lbs
Seal:

(3) DRILL METHOD
Rotary Air
Rotary Mud
Cable
Auger
Cable Mud
Reverse Rotary
Other

(4) PROPOSED USE
Domestic
Irrigation
Community
Industrial/ Commercial
Livestock
Dewatering
Thermal
Injection
Other

(5) BORE HOLE CONSTRUCTION
Special Standard (Attach copy)
Depth of Completed Well ft.
BORE HOLE
Dia From To Material From To Amt lbs
SEAL
Calculated
Calculated

How was seal placed: Method A B C D E
Other
Backfill placed from ft. to ft. Material
Filter pack from ft. to ft. Material Size
Explosives used: Yes Type Amount

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount Pounds Actual Amount 36,000 Pounds

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd
Shoe Inside Outside Other Location of shoe(s)
Temp casing Yes Dia From + To

(7) PERFORATIONS/SCREENS
Perforations Method mills knife
Screens Type Material
Perf/S Casing/ Screen
creen Liner Dia From To Scrm/slot Slot # of Tel/
width length slots pipe size

(8) WELL TESTS: Minimum testing time is 1 hour
Pump
Bailer
Air
Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
Temperature F Lab analysis Yes By
Water quality concerns? Yes (describe below) TDS amount
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County KLAMATH Twp 41 S N/S Range 10 E E/W WM
Sec 11 NE 1/4 of the NE 1/4 Tax Lot 0100
Tax Map Number Lot
Lat " or DMS or DD
Long " or DMS or DD
Street address of well Nearest address
137 W Front Street, Merrill OR 97633

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration
Completed Well
Flowing Artesian? Dry Hole?
WATER BEARING ZONES
Depth water was first found 40
SWL Date From To Est Flow SWL(psi) + SWL(ft)

(11) WELL LOG
Ground Elevation
Material From To
RECEIVED
SEP 10 2018
OWRD
Date Started 07-20-2018 Completed 07-25-2018

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number Date
Signed

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 10576 Date 09-06-2018
Signed
Contact Info (optional) Yellow Jacket Drilling Services

13184

KLAM 60208

WATER SUPPLY WELL REPORT - continuation page

WELL I.D. LABEL# L []
 START CARD # 1039334
 ORIGINAL LOG # KLAMATH 14959

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(2a) PRE-ALTERATION

Dia	+	From	To	Gauge	Stl	Plsto	Wld	Thrd
Material		From	To	Amt	sacks/lbs			

(5) BORE HOLE CONSTRUCTION

Dia	From	To	Material	SEAL		Amt	sacks/lbs
				From	To		
			Cement with 5% Bentic	0	20	16	S
			Calculated				
			Bentonite Chips	20	710	36,000	P
			Calculated				
			Cement with 5% Bentic	710	898	81	S
			Calculated				
			Bentonite Chips	894	924	2,000	P
			Calculated				

FILTER PACK

From	To	Material	Size
924	1,016	gravel	3/4"

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plsto	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/Screen	Casing/Screen	Screen Dia	From	To	Sorn/slot width	Slot length	# of slots	Tele/pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(11) WELL LOG

Material	From	To
3/4" clean, disinfected round gravel was backfilled from 924 to 1016 - Amount = 4.2 YDS = 9,000 lbs of gravel	924	1,016

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Comments/Remarks

[Empty box for comments/remarks]



Oregon

Kate Brown, Governor

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

August 31, 2018

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AARON ADAMS WWC #10576
YELLOW JACKET DRILLING
16765 SE 362ND DRIVE
SANDY, OREGON 97055

FINAL ORDER

Dear Mr. Adams:

The Special Standards Request Form you submitted for owner: City of Merrill, Start Card number 1039334, is hereby approved for the following: you may decommission this water supply well as outlined on your Special Standards Request Form dated July 30, 2018. A copy of your Special Standards Request Form is enclosed.

Verbal approval of this Special Standards Request was provided on July 24, 2018.

This Special Standards Request approval is a modification of the Special Standards Request approval issued to you on July 3, 2018 for the same Start Card number. If you have any questions concerning this letter, I may be contacted at (503) 986-0852, or by e-mail at Joel.W.Jeffery@oregon.gov.

Sincerely,


Joel Jeffery, Coordinator
Well Construction Program
Well Construction and Compliance Section

enclosure

cc: Southwest Region
File

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This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.



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

Special Standards
Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 7/30/18 Oral approval date (if applicable): 7/24/18

Bonded Well Constructor (name, license #, and mailing address): Aaron Adams, 10576
16765 SE 362nd Drive, Sandy, OR 97055

(1) Location of Well: NE 1/4 NE 1/4 Tax lot 01000 Section 11,
Township 41 S, Range 10 E, Klamath County
Address at well site: 137 W. Front Street, Merrill, OR 97633

(2) Start Card Number(s)(for work to be done): 1039334

(3) Name and Address of Land Owner: City of Merrill, 301 Second St, Merrill, OR 97633

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)
>50 feet

(5) The unusual site conditions which necessitate this request: A 10 inch cable tool drill bit
was lost in hole on construction in 1962 at 932 feet below ground surface
Existing well KLAM 14959

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)
Use of clean disinfected gravel at bottom of well, a bentonite plug, then a 75' lift
of cement grout to seal off bottom of well
(see attached proposed well abandonment diagram)

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- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)

See attached

PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/owner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: _____



Revised 7/26/2006

Special Standards Request Form 12

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STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

KLAM 60224

10/3/2018

WELL I.D. LABEL# L 131682 START CARD # 1039489 ORIGINAL LOG #

(1) LAND OWNER: Owner Well I.D., First Name, Last Name, Company CITY OF MERRILL, Address 301 SECOND STREET, City MERRILL, State OR, Zip 97633. (2) TYPE OF WORK: [X] New Well, [] Deepening, [] Conversion. (2a) PRE-ALTERATION: Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd, Casing, Seal.

(3) DRILL METHOD: [] Rotary Air, [] Rotary Mud, [] Cable, [] Auger, [] Cable Mud, [X] Reverse Rotary, [] Other. (4) PROPOSED USE: [] Domestic, [] Irrigation, [X] Community, [] Industrial/ Commercial, [] Livestock, [] Dewatering, [] Thermal, [] Injection, [] Other.

(5) BORE HOLE CONSTRUCTION: Special Standard, Depth of Completed Well 1050.00 ft. BORE HOLE table with columns Dia, From, To, Material, From, To, Amt, Sacks/lbs. SEAL table with columns Dia, From, To, Material, From, To, Amt, Sacks/lbs. How was seal placed: Method [] A, [] B, [X] C, [] D, [] E. Backfill placed from 0 ft. to 902 ft. Material CEMENT GROUT 2. Filter pack from ft. to ft. Material Size. Explosives used: [] Yes, Type, Amount 45 CUBIC YARDS.

(5a) ABANDONMENT USING UNHYDRATED BENTONITE: Proposed Amount, Actual Amount.

(6) CASING/LINER: Casing, Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd. Shoe [] Inside, [] Outside, [] Other. Location of shoe(s). Temp casing [X] Yes, Dia 24, From +0, To 32.

(7) PERFORATIONS/SCREENS: Perf/ Casing/Screen, Screen Liner, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size.

(8) WELL TESTS: Minimum testing time is 1 hour. [X] Pump, [] Bailer, [] Air, [] Flowing Artesian. Yield gal/min 500, Drawdown 0.5, Drill stem/Pump depth 260, Duration (hr) 12. Temperature 56 °F. Lab analysis [X] Yes, By Neilson Research Corp. Water quality concerns? [] Yes (describe below), TDS amount 215 ppm.

(9) LOCATION OF WELL (legal description): County KLAMATH, Twp 41.00 S, N/S, Range 10.00 E, E/W WM, Sec 11, NE 1/4 of the NE 1/4, Tax Lot 0100. Tax Map Number, Lot. Lat, Long. [X] Street address of well, [] Nearest address. 137 W FRONT ST, MERRILL, OR97633.

(10) STATIC WATER LEVEL: Date, SWL(psi), SWL(ft). Existing Well / Pre-Alteration, Completed Well 9/19/2018, 67. Flowing Artesian? [], Dry Hole? []. WATER BEARING ZONES: Depth water was first found 33.00. SWL Date, From, To, Est Flow, SWL(psi), SWL(ft).

(11) WELL LOG: Ground Elevation, Material, From, To. see attached lithology log, 0, 1050. RECEIVED MAY 17 2019 OWRD. Date Started 8/1/2018, Completed 10/1/2018.

(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. License Number, Date.

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. License Number 10576, Date 10/3/2018. Signed AARON ADAMS (E-filed).

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Map of Hole

Depth Range (ft)	Rock Type	Description
0-5	Rock Frag	Dark fragments of rocks. Angular and slightly prolate. Minor amounts of gravel to very coarse sand. Very loose.
5-10	Clay	Sandy Clay. Dark, coarse to medium grained sand; angular to slightly rounded. Minor amount of rock fragments see above.
10-15	Sand	Dark gravel to very coarse sand w/ minor clay. Angular to subangular, elongate to slightly rounded sand grains.
15-20	Sand	Dark fine to medium grained sands w/ coarse, subangular white sands. No clay, trace of silt.
20-30	Sand	Fine to medium grained, subangular white sands with minor amount of dark fine to medium grained sands and w/trace fine grained red sands
30-40	Sand	Coarse sand, spherical to semi spherical, angular to sub angular. Black with minor red and white grains. Minor pebbles.
40-45	Sand	Coarse to med sand, spherical to sub spherical, sub angular to angular. Black with minor red and white grains. Minor pebbles.
45-50	Sand	Coarse to med sand, spherical to sub spherical, sub angular to angular. Black with minor red and white grains. Minor pebbles and silt.
50-55	Sand	Coarse to med sand, spherical to sub spherical, sub angular to angular. Black with minor red and white grains. Minor silt and clay. Trace pebbles.
55-60	Sand	Coarse to med sand, spherical to sub spherical, sub angular to angular. Black with minor red and white grains. Minor silt and pebbles.
60-65	Sand	Coarse to med sand, spherical to sub spherical, sub angular to rounded. Black with minor red and white grains. Minor silt.
65-70	Sand	Coarse to med sand, spherical to sub spherical, sub angular to rounded. Black with minor red and white grains. Trace pebbles.
70-75	Clay	Gray clay. Minor coarse to very coarse sand. Trace pebbles. Loose.
75-80	Clay	Gray clay. Minor coarse to very coarse sand. Slight induration.
80-85	Clay	Gray clay. Minor silt. Trace med to coarse sand. Semi indurated.
85-90	Clay	Gray clay. Trace coarse sand to very coarse sand. Trace pebbles. Semi indurated.
90-95	Clay	Gray clay. Trace coarse sand to medium sand. Indurated.
95-100	Clay	Gray sandy clay w/ fine to coarse grained sand. Semi indurated.
100-105	Clay	Gray silty clay. Minor coarse to medium sand. Semi indurated.
105-110	Clay	Gray clay. Minor inclusions of fine to medium grained silty sand (<1mm). Indurated.
110-115	Clay	Gray silty clay. Trace coarse sand. Trace inclusions of fine to medium grained silty sand, indurated.
115-120	Clay	Gray clay. Very minor med grained sand. Indurated.
120-125	Clay	Gray clay. Very minor fine grained sand. Indurated.
125-130	Clay	Gray clay. Minor silt. Trace mica. Indurated.
130-135	Clay	Gray silty clay. Trace mica. Trace fine to medium grained sand.
135-140	Clay	Gray silty clay. Trace fine to medium grained sand.
140-145	Clay	Gray silty clay. Trace fine to medium grained sand. Indurated.
145-150	Clay	Light gray clay. Minor silt. Trace fine to medium grained sand. Indurated.
150-155	Clay	Gray silty clay. Trace fine to medium grained sand. Indurated.
155-160	Clay	Gray sandy clay w/ fine to medium grained sand.
160-165	Sand	Dark gray coarse sand. Rounded to semi rounded. Spherical to semi spherical. Minor clay. White, red, dark gray grains but dark gray over all. Trace pebble.
165-170	Sand	Dark gray coarse sand. Rounded to semi rounded. Spherical to semi spherical. White, red, dark gray grains but dark gray over all. Trace pebbles.
170-175	Sand	Dark gray fine to medium grained clayey sand. Trace silt. Trace angular pebbles.
175-180	Sand	Dark gray slightly sandy clay. Sand: fine to coarse grained. Semi indurated.
180-185	Clay	Dark Gray sandy clay. Sand: fine to medium grained. Indurated.
185-190	Clay	Dark Gray Clay. Minor medium to coarse grained sand. Slightly indurated.
190-195	Clay	Greenish Brown clay. Minor silt. Minor fine to medium grained sand. Slightly indurated.
195-200	Clay	Greenish Brown Clay. Minor silt. Trace fine to medium grained sand. Indurated.
200-205	Clay	Greenish Brown silty clay. Trace fine grained sand. Indurated.
205-210	Clay	Greenish brown silty clay. Trace fine grained sand. Indurated.
210-215	Clay	Greenish brown very silty clay. Trace angular pebbles. Indurated.
215-220	Clay	Greenish brown very silty clay. Trace angular pebbles. Trace Coarse grained sand. Indurated.
220-225	Clay	Dark gray clayey silt. Minor coarse to medium grained sand. Trace angular pebbles. Indurated.
225-230	Silt	Dark gray clayey silt. Minor fine to medium grained sand. Indurated.
230-235	Silt	Dark gray clayey silt. Minor fine to medium grained sand. Indurated.
235-240	Silt	Dark gray silty clay. Minor fine to medium grained sand. Semi indurated.
240-245	Clay	Dark gray sandy silty clay. Sand: fine to medium grained. Indurated.
245-250	Clay	Dark gray silty clay. Minor fine to medium grained sand. Indurated.
250-255	Clay	Gray clayey silt. Minor fine to medium grained sand. Indurated.
255-260	Silt	Gray silty clay. Minor fine to medium grained sand. Indurated.
260-265	Clay	Gray silty clay. Minor fine to medium grained sand. Indurated.
265-270	Clay	Gray silty clay. Minor fine to medium grained sand. Indurated.
270-275	Clay	Gray silty clay. Minor fine to medium grained sand. Indurated.
275-280	Clay	Greenish gray sandy clay. Sand: fine to medium grained. Trace angular pebble to very coarse angular sand. Slightly indurated.
280-285	Clay	Gray silty clay with slight brown stringers of silt. Trace fine to very fine grained sand. Indurated.
285-290	Silt	Gray clayey silt. Trace fine to very fine grained sand. Semi indurated.
290-295	Silt	Gray clayey silt. Trace coarse to medium grained sand. Semi indurated.
295-300	Silt	Gray clayey silt. Trace fine to medium grained sand. Semi indurated.
300-305	Clay	Dark gray silty clay. Trace fine to medium grained sand. Slightly indurated. Minor indurated brown clayey silt lenses (2mm)
305-310	Silt	Gray clayey silt. Trace fine to medium grained sand. Indurated.
310-315	Silt	Gray clayey silt. Minor medium to coarse grained sand. Trace angular to rounded pebbles. Indurated.
315-320	Clay	Gray silty clay. Trace medium to coarse grained sand. Indurated.
320-325	Sand	Light gray clayey sand. Sand: medium to coarse grained w/ black, white and red grains. Minor dark gray indurated silty clay lenses (1-3 mm).
325-330	Sand	Light gray clayey sand. Sand: medium to coarse grained w/ black, white and red grains. Minor dark gray indurated silty clay lenses (1-3 mm). Trace pebble.
330-335	Clay	Grayish light brown silty clay. Trace fine to medium grained sand. Indurated.
335-340	Clay	Dark gray clay. Trace angular coarse to very coarse grained basalt chips. Indurated.
340-345	Clay	Gray silty clay. Minor fine to medium grained sand. Trace angular pebble. Indurated.
345-350	Clay	Greenish gray silty clay. Trace medium to fine grained sand. Semi indurated.
350-355	Clay	Gray very sandy clay. Minor silt. Sand: medium to coarse black grains. Semi indurated.
355-360	Clay	Gray very sandy clay. Minor silt. Sand: well sorted, medium black grains. Semi indurated.
360-365	Clay	Gray very sandy clay. Minor silt. Sand: well sorted, medium black grains. Semi indurated.
365-370	Clay	Gray very sandy clay. Minor silt. Sand: well sorted, medium black grains. Semi indurated.
370-375	Clay	Gray silty clay. Minor medium to coarse grained black sand.
375-380	Silt	Gray clayey silt. Very minor medium to fine grained black sand.
380-385	Silt	Gray clayey silt. Very minor medium to fine grained black sand. Trace angular pebble.
385-390	Silt	Gray sandy clayey silt. Sand: medium to coarse grained w/ black, white and trace red. Slightly indurated.
390-395	Silt	Gray clayey sandy silt. Sand: medium to coarse grained w/ black, white and minor red. Trace rounded basalt pebbles. Slightly indurated.
395-400	Silt	Gray brown clayey silt. Minor medium to coarse, black, white and red grained sand. Minor basalt pebbles.
400-405	Silt	Gray brown clayey silt. Minor medium to coarse, black, white and red grained sand. Minor basalt pebbles. Slightly indurated.
405-410	Silt	Dark gray clayey sandy silt. Sand: medium to coarse grained, black, white and red. Trace pebbles.
410-415	Silt	Dark gray clayey silt. Minor fine grained sand. Minor basalt pebbles.

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KLAM 60224

10/3/2018

Map of Hole

415-420	Sand	Dark brown clayey sand. Well sorted medium grained, black, white and red. Minor silt. Trace coarse grained sand. Unconsolidated.
420-425	Silt	Gray clayey silt. Minor fine to medium grained black sand. Slightly indurated.
425-430	Silt	Gray clayey silt. Trace fine to medium black sand. Semi indurated.
430-435	Silt	Gray clayey silt. Trace fine to medium black sand. Semi indurated.
435-440	Silt	Gray clayey silt. Trace fine to medium black sand. Trace basalt pebbles. Indurated.
440-445	Silt	Greenish gray clayey silt. Minor vary coarse to coarse black white and red sand, angular to subangular, semi elongate to slightly rounded. Semi indurated.
445-450	Silt	Gray sandy silt. Minor clay. Sand: medium to coarse grained black, white and red. Semi indurated.
450-455	Clay	Gray sandy clay. Minor silt. Sand: medium to coarse grained black, white and red. Indurated.
455-460	Silt	Greenish gray clayey silt. Trace medium to coarse grained sand. Indurated.
460-465	Silt	Greenish gray clayey silt. Trace medium to coarse grained sand. Trace pebbles. Indurated.
465-470	Silt	Greenish gray clayey silt. Minor medium to coarse grained angular, subspherical to subelongate, sand. Trace medium to coarse grained sand. Trace pebbi
470-475	Silt	Gray clayey sandy silt. Sand: medium to coarse grained w/ black, white and minor red.
475-480	Sand	Clayey sand. Minor silt. Well sorted, medium graine black grains with lesser white and red grains, rounded to subrounded, subspherical to subelongate.
480-485	Silt	Gray clayey/sandy silt. Well sorted, medium grained black sand with lesser white and red grains, rounded to subrounded, subspherical to subelongate. Int
485-490	Silt	Greenish gray clayey silt. Minor well sorted, medium grained black sand w/ lesser white and red grains, rounded to subrounded, subspherical to subelongate. Int
490-495	Silt	Gray clayey sandy silt. Well sorted, medium grained black sand with lesser white and red grains, rounded to subrounded, subspherical to subelongate. Int
495-500	Silt	Greenish gray clayey silt. Minor fine to medium grained sand. Minor basalt pebbles. Indurated.
500-505	Silt	Gray clayey silt. Minor basalt pebbles. Trace fine to medium grained sand. Indurated.
505-510	Silt	Gray sandy silt. Minor clay. Sand: medium to coarse grained, predominantly white w/ black and lesser red, subspherical, subrounded to subangular. Trac
510-515	Silt	Gray clayey silt. Minor medium to coarse grained sands, predominantly white w/ black and lesser red, subspherical, subrounded to subangular. Slightly In
515-520	Clay	Gray silty clay. Trace basalt pebbles. Trace very coarse, subangular to subrounded, subspherical to subelongate sand. Semi indurated. Slightly In
520-525	Clay	Greenish gray silty clay. Minor medium to coarse grained, black white and red sand. Trace pebbles. Semi indurated.
525-530	Silt	Gray clayey sandy silt. Sand: very coarse to coarse, black white and red grains. Trace medium grained sand. Slightly indurated.
530-535	Sand	Silty sand. Poorly sorted, elongate to subspherical, subrounded to subangular. Trace clay. Unconsolidated.
535-540	Sand	Silty sand. Well sorted medium grained, black white and red grains, subspherical to spherical, rounded to subrounded. Trace clay. Semi indurated.
540-545	Sand	Clayey sand. Minor silt. Sand: Well sorted medium grained, black white and red grains, subspherical to spherical, rounded to subrounded. Semi indurated.
545-550	Clay	Greenish gray sandy clay. Minor silt. Sand: fine to medium grained. Trace basalt pebble. Semi indurated.
550-555	Clay	Greenish light brown silty clay. Minor fine to medium sand. Trace pebbles. Semi indurated.
555-560	Clay	Greenish light brown silty clay w/ black silt stringers. Trace pebble. Trace fine grained sand. Semi indurated.
560-565	Clay	Greenish dark brown silty clay w/ black silt stringers. Trace pebbles. Trace fine to medium grained sand. Slightly indurated.
565-570	Silt	Greenish dark brown clayey silt. Minor medium to fine grained black sand. Trace coarse sand. Slightly indurated.
570-575	Clay	Dark gray silty clay. Minor medium to fine grained black sands. Trace coarse grained black, white and red sand. Indurated.
575-580	Clay	Greenish dark brown silty clay. Minor fine to medium grained sand. Semi indurated.
580-585	Silt	Gray silty clay. Minor fine to medium grained sand. Trace pebble. Semi indurated.
585-590	Silt	Gray clayey silt. Trace pebble. Trace fine grained sand. Slightly indurated.
590-595	Silt	Gray sandy silt. Minor clay. Sand: medium to coarse, black, white and red grains. Loose.
595-600	Silt	Gray clayey silt. Minor medium to every coarse grained black sand. Trace pebble. Slightly indurated.
600-605	Silt	Gray clayey silt. Minor medium to every coarse grained black sand. Slightly indurated.
605-610	Silt	Gray sandy silt. Minor clay. Sand: medium to coarse grained, black white and red. Loose.
610-615	Silt	Gray sandy silt. Minor clay. Sand: medium to fine grained, black white and red. Loose.
615-620	Silt	Greenish dull moss sandy silt. Minor clay. Sand: medium to fine grained, black white and red. Loose.
620-625	Sand	Brown gray silty sand. Poorly sorted, very fine to coarse, black white and red grains. Trace clay. Loose.
625-630	Sand	Brown gray silty sand. Poorly sorted, very fine to coarse, black white and red grains. Minor clay. Loose.
630-635	Sand	Brown gray silty sand. Moderately well sorted, fine to medium, black white and red grains. Minor clay. Trace pebbles. Trace coarse grained sand. Loose.
635-640	Sand	Dark gray sand. Moderately well sorted, medium to coarse grained, black white and red. Well rounded to rounded, subspherical to subelongate. Trace sil
640-645	Sand	Dark gray silty sand. Moderately well sorted, medium to coarse grained, black white and red. Well rounded to rounded, subspherical to subelongate. Trace sil
645-650	Sand	Gray clayey sand. Moderately well sorted, medium to coarse grained, black white and red. Well rounded to rounded, subspherical to subelongate. Trace sil
650-655	Sand	Gray clayey sand. Moderately well sorted, medium to coarse grained, black white and red. Well rounded to rounded, subspherical to subelongate. Minor
655-660	Sand	Gray clayey sand. Moderately well sorted, very fine to fine grained, black white and red. Well rounded to rounded, subspherical to subelongate. Minor sil
660-665	Silt	Gray silt. Minor clay. Minor very fine to medium sand. Loose.
665-670	Silt	Gray silt. Minor clay. Minor very fine to medium sand. Loose.
670-675	Silt	Greenish gray silt. Minor clay. Minor very fine to medium sand. Loose.
675-680	Sand	Dark gray sand. Moderately well sorted, coarse to medium grained, subrounded to subangular, subspherical to subelongate, black white and red. Trace sil
680-685	Silt	Dark gray clayey silt. Minor very fine to medium grained, black white and red sand. Loose.
685-690	Silt	Dark gray clayey silt. Minor very fine to medium grained, black white and red sand. Loose.
690-695	Silt	Dark gray clayey silt. Minor very fine to medium grained, black white and red sand. Loose.
695-700	Clay	Greenish gray silty clay. Trace very fine to fine sand. Semi indurated.
700-705	Clay	Greenish gray silty clay. Trace very fine to fine sand. Semi indurated.
705-710	Clay	Gray silty clay. Trace medium to fine sand. Indurated.
710-715	Clay	Gray silty clay. Trace medium to fine sand. Indurated.
715-720	Sand	Gray clayey sand. Moderately well sorted, coarse to medium grained, subrounded to subangular, subspherical to subelongate, black white and red. Mino
720-725	Sand	Dark gray silty sand. Moderately well sorted, medium to coarse grained, black white and red, subrounded to rounded, subspherical to subelongate. Mino
725-730	Sand	Dark gray silty sand. Moderately well sorted, medium to coarse grained, black white and red, subrounded to rounded, subspherical to subelongate. Mino
730-735	Silt	Greenish gray clayey silt w/ indurated clay lenses (1-2mm). Minor fine to medium sand. Slightly indurated.
735-740	Silt	Greenish gray clayey silt w/ indurated clay lenses (1-2mm). Minor fine to medium sand (increased % relative to sample 735). Slightly indurated.
740-745	Silt	Greenish gray sandy silt. Sand: fine to very fine grained. Minor clay. Slightly indurated.
745-750	Silt	Greenish gray clayey silt. Minor fine to very fine grained sand. Semi indurated.
750-755	Silt	Dark gray clayey silt. Minor fine to very fine grained sand. Semi indurated.
755-760	Silt	Dark gray clayey silt. Minor fine to medium grained sand. Trace pebbles. Semi indurated.
760-765	Silt	Dark gray clayey silt. Minor fine to medium grained sand. Trace pebbles. Trace indurated clay lenses (1-3 mm). Semi indurated.
765-770	Silt	Dark gray clayey silt. Minor fine to medium grained sand. Trace pebbles. Semi indurated.
770-775	Sand	Dark gray clayey sand. Minor silt. Moderately well sorted, medium to coarse grained, black white and red, rounded to subangular, subspherical to subeloc
775-780	Silt	Dark gray clayey silt. Minor medium to coarse grained sand. Trace indurated silt lenses. Loose.
780-785	Silt	Dark gray clayey silt. Minor medium to fine grained sand. Trace pebbles. Loose.
785-790	Sand	Dark gray silty sand. Minor clay. Moderately well sorted, medium to coarse grained, black white and red, rounded to subrounded, subspherical to subeloc
790-795	Sand	No sample.
795-800	Sand	Dark gray clayey sand. Minor silt. Moderately well sorted, medium to coarse grained, black white and red, rounded to subrounded, subspherical to subeloc
800-805	Silt	Greenish gray clayey silt. Minor medium to coarse sand. Semi indurated.
805-810	Clay	Greenish gray silty clay. Minor fine to medium grained sand. Semi indurated.
810-815	Clay	Dark gray silty clay. Trace fine to medium grained sand. Semi indurated.
815-820	Silt	Dark gray clayey silt. Minor fine to coarse grained sand. Semi indurated.
820-825	Silt	Dark gray clayey silt. Minor fine to coarse grained sand. Semi indurated.
825-830	Silt	Dark gray clayey silt. Minor fine to coarse grained sand. Semi indurated.

13184

10/3/2018

Map of Hole

830-835	Silt	Dark gray clayey silt. Minor fine to medium grained sand. Semi indurated.
835-840	Silt	Darker gray sandy clayey silt. Sand: fine grained. Minor medium grained sand. Semi indurated.
840-845	Silt	Darker gray sandy clayey silt. Sand: fine grained. Minor medium grained sand. Semi indurated.
845-850	Silt	Darker gray sandy clayey silt. Sand: fine grained. Minor medium grained sand. Trace pebbles. Semi indurated.
850-855	Silt	Dark gray sandy clayey silt. Sand: medium to coarse grained. Loose.
855-860	Silt	Dark gray sandy silt. Sand: fine to medium grained. Minor clay. Loose.
860-865	Silt	Dark gray sandy silt. Sand: fine to medium grained. Minor clay. Loose.
865-870	Silt	Dark gray sandy silt. Sand: coarse to medium grained. Minor clay. Loose.
870-875	Silt	Dark gray sandy silt. Sand: coarse to medium grained. Minor clay. Loose.
875-880	Silt	Dark gray sandy clayey silt. Sand: coarse to medium grained. Loose.
880-885	Silt	Dark gray sandy silt. Sand: coarse to medium grained. Minor clay. Loose.
885-890	Silt	Dark gray clayey silt. Minor medium to coarse grained sand. Loose.
890-895	Silt	Dark gray sandy silt. Minor clay. Sand: medium to fine grained. Minor coarse sand. Loose.
895-900	Silt	Greenish gray clayey silt. Minor fine to medium grained sand. Indurated.
900-905	Silt	Dark gray clayey sandy silt. Sand: fine to medium grained. Indurated.
905-910	Rock Frag	Weathered, fractured basalt. Angular. Subspherical to subelongate.
910-915	Rock Frag	Weathered, fractured basalt. Angular. Subspherical to subelongate.
915-918	Rock Frag	Weathered, fractured basalt. Minor Gravel to cobbles scoria and Pumice. Subrounded to subangular. Elongate to subelongate.
918-923	Rock	Basalt. Cobbles: Angular to subangular.
923-928	Rock	Basalt. Minor fracture zone with basalt cobbles showing oxidation surfaces but no weathering. Trace pumice and scoria.
928-933	Rock	Basalt
933-938	Rock	Basalt. Trace basalt fragments.
938-943	Rock	Basalt. Minor basalt fragments.
943-948	Rock Frag	Weathered, fractured basalt. Minor articulated basalt.
948-953	Rock	Basalt. Trace basalt fragments.
953-958	Rock	Basalt. Trace basalt fragments.
958-963	Rock	Basalt.
963-968	Rock	Basalt. Trace basalt fragments.
968-973	Rock	Basalt.
973-978	Rock	Basalt. Trace basalt fragments.
978-983	Rock	Basalt.
983-988	Rock	Basalt.
988-993	Rock	Basalt. Trace basalt fragments.
993-998	Rock	Basalt. Minor basalt fragments.
998-1003	Rock	Basalt. Minor basalt fragments.
1003-1008	Rock	Basalt. Minor basalt fragments.
1008-1013	Rock	Basalt. Minor basalt fragments.
1013-1018	Rock	Basalt. Minor basalt fragments.
1018-1023	Rock	Basalt. Minor basalt fragments.
1023-1028	Rock	Basalt. Minor basalt fragments.
1028-1033	Rock	Basalt. Minor basalt fragments.
1033-1038	Rock	Basalt. Minor basalt fragments.
1038-1043	Rock	Basalt. Minor basalt fragments.
1043-1048	Rock	Basalt. Minor basalt fragments.

Oregon Water Resources Department
PUMP TEST FORM COVER SHEET

Well Owner: Name: City of Merrill
Well Location: Township: 41 S Range: 10 E
Address: PO Box 487
Section: 11 1/4 NE 1/16 NE 1/64 NW
County: Klamath
Well depth: 1,050.0 Date drilled: August 2018
City: Merrill State: OR Zip: 97633
Original owner (from well log): POD ID:

Water Right Information:
Application: G-16989 Permit: Certificate:
Is this well listed on more than one water right? Yes If yes, list additional water rights below:
Application: Permit: Certificate:
Application: Permit: Certificate:

Pump Test:
Test Conducted by: John Harms Well Owner? Yes
Company: Anderson Engineering & Surveying, Inc.
Address: PO Box 28 Date of Test: 09/19/2018
City: Lakeview State: OR Zip: 97630
Daytime phone: 541-947-4407

Method of discharge measurement (see our brochure for more information): Flow meter
Method of water-level measurement (pick one or enter other method used): Acoustic sounder
Length of air line (if used):

Pump type (pick one or enter other method used): Submersible
Was the pump test conducted during normal use of the well? Yes Note:

Are you aware of any wells, other than domestic or stock wells, pumping within 1000 feet of the tested well during the test or within 24 hours prior to the test? Yes Note:
If yes, give approximate distances to each and approximate pumping rate of each. If possible, indicate if they were turned on or off during the test:

Is there a lake, stream or other surface water body within 1/4 mile of the tested well? Yes If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head. Approx. distance: 550.00 ft Approx. elevation difference: 15.00 ft

Well elevation is above surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) top of casing

Measuring point distance above land surface 1.50 feet.

Static water level measurements: (A minimum of three measurements are required in the hour before pumping begins at no less than 20 minutes apart):

Table with 3 columns: Time, Depth to water below meas. point, Depth to water below land surface. Row 1: 11:25 am, 66.45, 64.95

Discharge measurements: (A discharge measurement is required at the start of pumping and at least once an hour during the test; additional measurements should be noted on the Pump Test Data Sheet):

Table with 3 columns: Time, Discharge Rate, Discharge Units (e.g. gpm, cfs, etc). Rows: 11:28 am (500.00 gpm), 12:27 pm (500.00 gpm), 3:27 pm (500.00 gpm), 3:57 pm (500.00 gpm)

Time pump turned on: Date 09/19/2018 Time 11:26 am
Time pump turned off: Date 09/19/2018 Time 11:30 pm
Total pumping time: 12 hours 4 minutes

Note: Well must be idle for at least 16 hours prior to the test.
Additional forms can be obtained from our web site at: www.oregon.gov/owrd

Signature: [Handwritten Signature] P.E.

Oregon Water Resources Department
PUMP TEST DATA SHEET

Application: G-16989 Permit: _____ Certificate: _____ Pod_Id: _____

All water-level measurements must either be in feet and inches, or feet and decimal fractions.

Drawdown Data

Recovery Data

Date	Time	Time Since Pump Started (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments	Date	Time	Time Since Pump Stopped (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments
9/19/2018			66.45		Static		11:35		65.29		
	11:26 am				Start Pump		11:40		65.78		
	11:27		67.20				11:45		65.91		
	11:28		67.30		500 gpm		11:50		65.91		
	11:29		67.30				11:55		65.91		
	11:30		67.25								
	11:31		67.25								
	11:33		67.19								
	11:35		67.15		meter - 2,301,500 gal						
	11:37		67.10								
	11:42		67.01								
	11:47		66.99		23.5 deg C						
	11:52		66.98		378 s/cm						
	11:57		66.97								
	12:07		66.96								
	12:17		66.96								
	12:27		66.96		500 gpm						
	12:57		66.96		24 deg C, 382 s/cm						
	1:27		66.96								
	1:57		66.95								
	2:27		66.96		24.8 deg C, 378 s/cm						
	2:57		66.96								
	3:27		66.96		500 gpm						
	3:50				24 deg C, 379 s/cm						
	3:55				took samples						
	3:57		66.96		500 gpm						
	5:30		66.99								
	6:30		67.03								
	7:30		67.08								
	8:30		67.08								
	9:30		67.08								
	10:30		67.08								
	11:30		67.08		meter - 2,659,800 gal						

Duplicate this data sheet as necessary.

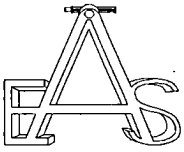
OWRD 2/9/2000

Additional forms can be obtained from our web site at: www.oregon.gov/owrd

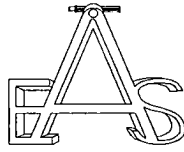
ANDERSON
ENGINEERING & SURVEYING, INC.

**TRANSMITTAL
LETTER**

RECEIVED
MAY 17 2019
OWRD



PO Box 28
17681 Hwy 395
Lakeview, Oregon 97630
(541) 947-4407
(541) 947-2321 FAX



City of Merrill
PO Box 487
Merrill, OR 97633

DATE: 5/1/2019	JOB NO: 2017-122
ATTENTION: Greg Matthews	
RE: Water Right Permit Amendment	

WE ARE SENDING YOU ATTACHED:

- PRINTS PLANS
 OTHER _____

COPIES	DATE	DESCRIPTION
1		Permit Amendment with Attachments
1		Copy for your Records

THESE ARE TRANSMITTED AS CHECKED BELOW:

- FOR APPROVAL FOR REVIEW AND COMMENT
 AS REQUESTED FOR SIGNATURE
 OTHER _____

REMARKS
Please sign the amendment application where indicated. You will also need to sign the land use form. Mail the signed application and land use along with the map and attachments to Water Resources. You will need to include the fee of \$1,570.

COPY TO _____ SIGNED Carmen Tague, Business Manager

If enclosures are not as noted, please notify us at once