

Application for a Permit to Use Groundwater

725



**Oregon Water Resources
Department**
Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
www.oregon.gov/OWRD

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant

NAME WAYNE AND AMANDA STAEHELY			PHONE (HM)		
PHONE (WK)		CELL 503-320-3466		FAX	
ADDRESS 29490 S JACKSON RD					
CITY CANBY		STATE OR	ZIP 97013	E-MAIL* AMANDASTAEHELY@GMAIL.COM WAYNE@COLUMBIA-NURSERY.COM	

Organization

NAME			PHONE		FAX
ADDRESS					CELL
CITY	STATE E	ZIP	E-MAIL*		

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

AGENT / BUSINESS NAME			PHONE		FAX
ADDRESS					CELL
CITY	STATE	ZIP	E-MAIL*		

Note: Attach multiple copies as needed

* By providing an e-mail address, consent is given to receive all correspondence from the Department electronically. (Paper copies of the proposed and final order documents will also be mailed.)

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

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


Applicant Signature

Wayne Staehely
Print Name and Title if applicable

1/31/2019
Date


Applicant Signature

Amanda Staehely
Print Name and Title if applicable

1/31/2019
Date

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For Department Use: App. Number: G-18789

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SECTION 2: PROPERTY OWNERSHIP

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

- ☐ YES, there are no encumbrances.
- ☐ YES, the land is encumbered by easements, rights of way, roads or other encumbrances.
- ☒ NO, I have a recorded easement or written authorization permitting access.
- ☐ NO, I do not currently have written authorization or easement permitting access.
- ☐ NO, written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- ☐ NO, because water is to be diverted, conveyed, and/or used only on federal lands.

Affected Landowners: List the names and mailing addresses of all owners of any lands that are not owned by the applicant and that are crossed by the proposed ditch, canal or other work, even if the applicant has obtained written authorization or an easement from the owner. *(Attach additional sheets if necessary).*

Donald and Shirleen Staehely 10825 S New Era RD Canby OR 97013

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

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
WELL 1	UNNAMED TRIBUTARY TO BEAR CREEK	2650	
WELL 3	UNNAMED TRIBUTARY TO BEAR CREEK	2085	

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

WELL 1 (CLAC 12773), WELL 3 PROPOSED

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SECTION 3: WELL DEVELOPMENT, continued

Total maximum rate requested: 0.56 CFS (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

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

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL- SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE- FEET)
WELL 1	☐	☒	CLAC 12773	☐	8	0-285					285		
WELL 3	☒	☐		☐	8	0-285					300		
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									

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

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

*** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

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SECTION 4: SENSITIVE, THREATENED OR ENDANGERED FISH SPECIES PUBLIC INTEREST INFORMATION

This information must be provided for your application to be accepted as complete. The Water Resources Department will determine whether the proposed use will impair or be detrimental to the public interest with regard to sensitive, threatened or endangered fish species if your proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters.

To answer the following questions, use the map provided in Attachment 3 or the link below to determine whether the proposed point of appropriation (POA) is located in an area where the Upper Columbia, the Lower Columbia, and/or the Statewide public interest rules apply.

For more detailed information, click on the following link and enter the TRSQQ or the Lat/Long of a POA and click on "Submit" to retrieve a report that will show which section, if any, of the rules apply:

https://apps.wrd.state.or.us/apps/misc/lkp_trsqq_features/

If you need help to determine in which area the proposed POA is located, please call the customer service desk at (503) 986-0801.

Upper Columbia - OAR 690-033-0115 thru -0130

Is the well or proposed well located in an area where the Upper Columbia Rules apply?

☐ Yes ☒ No

If yes, you are notified that the Water Resources Department will consult with numerous federal, state, local and tribal governmental entities so it may determine whether the proposed use is consistent with the "Columbia River Basin Fish and Wildlife Program" adopted by the Northwest Power Planning Council in 1994 for the protection and recovery of listed fish species. The application may be denied, heavily conditioned, or if appropriate, mitigation for impacts may be needed to obtain approval for the proposed use.

If yes, and if the Department determines that proposed groundwater use has the potential for substantial interference with nearby surface waters:

- I understand that the permit, if issued, will not allow use during the time period April 15 to September 30, except as provided in OAR 690-033-0140.
- I understand that the Department of Environmental Quality will review my application to determine if the proposed use complies with existing state and federal water quality standards.
- I understand that I will install and maintain water use measurement and recording devices as required by the Water Resources Department, and comply with recording and reporting permit condition requirements.

Lower Columbia - OAR 690-033-0220 thru -0230

Is the well or proposed well located in an area where the Lower Columbia rules apply?

☒ Yes ☐ No

If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine, by reviewing recovery plans, the Columbia River Basin Fish and Wildlife Program, and regional restoration programs applicable to threatened or endangered fish species, in coordination with state and federal agencies, as

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appropriate, whether the proposed use is detrimental to the protection or recovery of a threatened or endangered fish species and whether the use can be conditioned or mitigated to avoid the detriment.

If a permit is issued, it will likely contain conditions to ensure the water use complies with existing state and federal water quality standards; and water use measurement, recording and reporting required by the Water Resources Department. The application may be denied, or if appropriate, mitigation for impacts may be needed to obtain approval of the proposed use.

If yes, you will be required to provide the following information, if applicable.

☐ Yes ☒ No The proposed use is for more than **one** cubic foot per second (448.8 gpm) and is not subject to the requirements of OAR 690, Division 86 (Water Management and Conservation Plans).

If yes, provide a description of the measures to be taken to assure reasonably efficient water use:

Statewide - OAR 690-033-0330 thru -0340

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Is the well or proposed well located in an area where the Statewide rules apply?

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☒ Yes ☐ No

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If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine whether the proposed use will occur in an area where endangered, threatened or sensitive fish species are located. If so, the Water Resources Department, Department of Fish and Wildlife, Department of Environmental Quality, and the Department of Agriculture will recommend conditions required to achieve "no loss of essential habitat of threatened and endangered (T&E) fish species," or "no net loss of essential habitat of sensitive (S) fish species." If conditions cannot be identified that meet the standards of no loss of essential T E fish habitat or no net loss of essential S fish habitat, the agencies will recommend denial of the application unless they conclude that the proposed use would not harm the species.

SECTION 5: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Nursery Use	Year-Round	

For irrigation use only:

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: 72.6 Acres

Supplemental: Acres

If you listed supplemental acres, list the Permit or Certificate number of the underlying primary water right(s):

NA

Indicate the maximum total number of acre-feet you expect to use in an irrigation season:

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: NA (**Exempt Uses:** Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.)

- If the use is **mining**, describe what is being mined and the method(s) of extraction (*attach additional sheets if necessary*): NA

SECTION 6: WATER MANAGEMENT

A. Diversion and Conveyance

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

- ☒ Pump (give horsepower and type): 100 HP
☐ Other means (describe): _____

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

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) (*attach additional sheets if necessary*)

25% drip irrigation and 75% overhead sprinklers

C. Conservation

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

Drip irrigation and meter water use

SECTION 7: PROJECT SCHEDULE

- a) Date construction will begin: Within Five Years of Permit Issuance
 b) Date construction will be completed: Within Five Years of Permit Issuance
 c) Date beneficial water use will begin: Within Five Years of Permit Issuance

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SECTION 8: RESOURCE PROTECTION

In granting permission to use water the state encourages, and in some instances requires, careful control of activities that may affect adjacent waterway or streamside area. See instruction guide for a list of possible permit requirements from other agencies. Please indicate any of the practices you plan to undertake to protect water resources.

- ☐ Water quality will be protected by preventing erosion and run-off of waste or chemical products.
Describe: _____

- ☐ Excavation or clearing of banks will be kept to a minimum to protect riparian or streamside areas.
Note: If disturbed area is greater than one acre, applicant should contact the Oregon Department of Environmental Quality to determine if a 1200C permit is required.

Describe planned actions and additional permits required for project implementation: NA

- ☐ Other state and federal permits or contracts required and to be obtained, if a water right permit is granted:
List: NA

SECTION 9: WITHIN A DISTRICT

☐ Check here if the point of appropriation (POA) or place of use (POU) are located within or served by an irrigation or other water district.

Irrigation District Name NA	Address	
City	State	Zip

SECTION 10: REMARKS

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

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Information Form



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 503-986-0900
www.oregon.gov/OWRD

Applicant

NAME WAYNE AND AMANDA STAEHELY			PHONE (HM)		
PHONE (WK)		CELL 503-320-3466		FAX	
ADDRESS 29490 S JACKSON RD					
CITY CANBY		STATE OR	ZIP 97013	E-MAIL*	

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:
4 S	1 E	34		1101		☒ Diverted	☒ Conveyed	☒ Used	
4 S	1 E	34		1100		☒ Diverted	☒ Conveyed	☒ Used	
						☐ Diverted	☐ Conveyed	☐ Used	
						☐ Diverted	☐ Conveyed	☐ Used	

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

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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 Groundwater Registration Modification
☐ Limited Water Use License
 ☐ Allocation of Conserved Water
 ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☒ Groundwater ☐ Surface Water (name) _____

Estimated quantity of water needed: 0.56 ☒ 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 Nursery Use

Briefly describe:

Obtain a water right for nursery use from wells

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.



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): EFU Zoning, Section 401 of County ZDD
- ☐ 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:	
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
RECEIVED		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
FEB 08 2019		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
OWRD		☐ Obtained ☐ Denied	☐ Being Pursued ☐ 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: <u>Melissa Ahrens</u>		TITLE: <u>Senior Planner</u>	
SIGNATURE: <u>[Signature]</u>	PHONE: <u>503-742-4519</u>	DATE: <u>1/2/19</u>	
GOVERNMENT ENTITY: <u>Clackamas County</u>			

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: Wayne & Amanda Staehely

City or County: Clackamas County Staff contact: Melissa Ahrens

Signature: [Signature] Phone: 503-742-4519 Date: 1/2/19

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PRELIMINARY REPORT

(Continued)

Order No.: 472513512231MJM-CT42

EXHIBIT "ONE"

Parcel I:

Beginning at a point 18 chains West of the Southeast corner of the Donation Land Claim No of H. L. Dibble in Section 34, Township 4 South, Range 1 East, of the Willamette Meridian; running, thence North 40 chains; thence West 22 chains; thence South to intersection with Public County Road; thence in a Southeasterly direction along said County Road to the South line of said claim; thence East tracing said claim line to the place of beginning.

EXCEPT THEREFROM, a strip of land 1 rod wide and 16 rods long, commencing at the Northwest corner and running along the North line of said tract for road purposes heretofore conveyed to W. H. Cochran.

ALSO EXCEPTING THEREFROM the following described Tract:

Beginning at a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point bears North 00° 11' 22" West 1317.24 feet and North 89° 49' 31" West 1204.86 feet from the southeast corner of Section 34, Township 4 South, Range 1 East, Willamette Meridian, Clackamas County, Oregon, said point being the Southwest corner of the Kober Tract, said point also being the Southeast corner of the Germany Tract, said point being the Point of Beginning; thence along the common boundary North 00° 43' 35" East 1070.91 feet to a point, said point being a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc."; thence South 00° 10' 33" East 1070.88 feet to a point, said point being located along the Northerly boundary of a tract of land recorded in Deed Document No. 97-102048 of the Clackamas County Deed Records; thence along said Northerly boundary line North 89° 49' 31" West 16.86 feet to the point of beginning.

ALSO EXCEPTING THEREFROM that certain parcel previously conveyed to Stephen J. Germany by Special Warranty Deed dated November 23, 1987 and recorded November 23, 1987 as Recorder's Fee No. 87-52350, and which is specifically described as follows:

Beginning at a point 1967.55 feet West and 1188.93 feet North of the Southeast corner of the Donation Land Claim of H.L. Dibble in Section 34, Township 4 South, Range 1 West of the Willamette Meridian, Clackamas County, Oregon; thence running North 200.00 feet to a point; thence West 280.00 feet; thence South 90.00 feet; thence West 470.00 feet to the center of the Molalla-Canby Road (County Road No. 95); thence Southwesterly along the center of said road, 21.92 feet; thence East 461.02 feet; thence South 90.00 feet; thence West 280.00 feet to the place of beginning.

Parcel II:

Beginning at a point 155 rods, 6 1/2 feet South of the one-quarter section corner between Sections 34 and 27, Township 4 South, Range 1 East, of the Willamette Meridian running; thence South 16 rods to the center of the Molalla-Canby Road; thence Northwesterly along the center of said road 17 rods 9 1/2 feet; thence East 7 rods, 3 feet to the place of beginning.

EXCEPT THEREFROM that portion lying within County Road No. 95.

ALSO EXCEPTING THEREFROM any portion lying within the boundaries of the following described tract:

Beginning at a point 1967.55 feet West and 1188.93 feet North of the Southeast corner of the Donation Land Claim of H.L. Dibble in Section 34, Township 4 South, Range 1 West of the Willamette Meridian, Clackamas

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PRELIMINARY REPORT

(Continued)

Order No.: 472513512231MJM-CT42

County, Oregon; thence running North 200.00 feet to a point; thence West 280.00 feet; thence South 90.00 feet; thence West 470.00 feet to the center of the Molalla-Canby Road (County Road No. 95); thence Southwesterly along the center of said road, 21.92 feet; thence East 461.02 feet; thence South 90.00 feet; thence West 280.00 feet to the place of beginning.

PARCEL III:

Commencing at a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point bears North 00° 11' 22" West 1317.24 feet and North 89° 49' 31" West 1204.86 feet from the Southeast corner of Section 34, Township 4 South, Range 1 East, Willamette Meridian, Clackamas County, Oregon, said point being the Southwest corner of the Kober Tract, said point also being the Southeast corner of the Germany Tract; thence along the common boundary North 00° 43' 35" East 1070.91 feet to a point, said point being a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point being the True Point of Beginning; thence along said common boundary line North 10° 17' 24" East 1559.92 feet to a point, said point being a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point also being located along the southerly in the City of Tualatin, County of Clackamas and State of Oregon boundary of a tract of land Deed Parcel II of Deed Document No. 2005-077596 of Clackamas County Deed Records, said point also being the Northwest corner of said Kober Tract and also the Northeast corner of said Germany Tract; thence along said Southerly boundary North 89° 51' 26" West 12.68 feet to a point; thence South 00° 10' 33" East 1559.94 feet to the True Point of Beginning.

PARCEL IV:

Beginning at a point 1967.55 feet West and 1188.93 feet North of the Southeast corner of the Donation Land Claim of H.L. Dibble in Section 34, Township 4 South, Range 1 West of the Willamette Meridian, Clackamas County, Oregon; thence running North 200.00 feet to a point; thence West 280.00 feet; thence South 90.00 feet; thence West 470.00 feet to the center of the Molalla-Canby Road (County Road No. 95); thence Southwesterly along the center of said road, 21.92 feet; thence East 461.02 feet; thence South 90.00 feet; thence West 280.00 feet to the place of beginning.

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CHICAGO TITLE

472513512231-42

Clackamas County Official Records 2013-076576
 Sherry Hall, County Clerk 11/12/2013 12:22:18 PM
 D-D Cnt=1 Str=6 KARLYN \$78.00
 \$15.00 \$16.00 \$10.00 \$20.00 \$17.00

RECORDING REQUESTED BY:

Chicago Title Company of Oregon
 5300 SW Meadows Road, Suite 100
 Lake Oswego, OR 97035

GRANTOR:

Stephen J. Germany, TRUSTEE
 29490 S. Jackson Rd.
 Canby, OR 97013

GRANTEE:

Donald E. Staehely and Shirleen A. Staehely,
 10825 S. New Era Rd.
 Canby, OR 97013

SEND TAX STATEMENTS TO:

Donald E. Staehely and Shirleen A. Staehely,
10825 S. New Era Rd.
Canby, OR 97013

AFTER RECORDING RETURN TO:

Donald E. Staehely, and Shirleen A. Staehely
10825 S. New Era Rd.
Canby, OR 97013

Escrow No: 472513512231MJM-CT42

29490 S. Jackson Road
 Canby, OR 97013

SPACE ABOVE THIS LINE FOR RECORDER'S USE

WARRANTY DEED - STATUTORY FORM
 (INDIVIDUAL or CORPORATION)

Stephen J. Germany, TRUSTEE of the Stephen J Germany Trust dated November 28, 2007 and any
 amendments thereto

Grantor, conveys and warrants to:

Donald E. Staehely and Shirleen A. Staehely

Grantee, the following described real property free of encumbrances except as specifically set forth herein:

Parcel I:

Beginning at a point 18 chains West of the Southeast corner of the Donation Land Claim No of H.
 L. Dibble in Section 34, Township 4 South, Range 1 East, of the Willamette Meridian; running,
 thence North 40 chains; thence West 22 chains; thence South to Intersection with Public County
 Road; thence in a Southeasterly direction along said County Road to the South line of said claim;
 thence East tracing said claim line to the place of beginning.

EXCEPT THEREFROM, a strip of land 1 rod wide and 16 rods long, commencing at the
 Northwest corner and running along the North line of said tract for road purposes heretofore
 conveyed to W. H. Cochran.

ALSO EXCEPTING THEREFROM the following described Tract:

Beginning at a 5/8" Iron rod with a yellow plastic cap marked "DK & A;
 North 00° 11' 22" West 1317.24 feet and North 89° 49' 31" West 1204
 corner of Section 34, Township 4 South, Range 1 East, Willamette M;
 Oregon, said point being the Southwest corner of the Kober Tract, sai
 Southeast corner of the Germany Tract, said point being the Point of I
 common boundary North 00° 43' 35" East 1070.91 feet to a point, saic
 with a yellow plastic cap marked "DK & Assoc."; thence South 00° 10'
 point, said point being located along the Northerly boundary of a tract

472513512231MJM-CT42
 Deed (Warranty - Statutory (Individual or Corporation))

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SALEM, OR

↑
 Easement

G-18515

G-18789

Document No. 97-102048 of the Clackamas County Deed Records; thence along said Northerly boundary line North 89° 49' 31" West 16.86 feet to the point of beginning.

ALSO EXCEPTING THEREFROM that certain parcel previously conveyed to Stephen J. Germany by Special Warranty Deed dated November 23, 1987 and recorded November 23, 1987 as Recorder's Fee No. 87-52350, and which is specifically described as follows:

Beginning at a point 1967.55 feet West and 1188.93 feet North of the Southeast corner of the Donation Land Claim of H.L. Dibble in Section 34, Township 4 South, Range 1 West of the Willamette Meridian, Clackamas County, Oregon; thence running North 200.00 feet to a point; thence West 280.00 feet; thence South 90.00 feet; thence West 470.00 feet to the center of the Molalla-Canby Road (County Road No. 95); thence Southwesterly along the center of said road, 21.92 feet; thence East 461.02 feet; thence South 90.00 feet; thence West 280.00 feet to the place of beginning.

Parcel II:

Beginning at a point 155 rods, 6 1/2 feet South of the one-quarter section corner between Sections 34 and 27, Township 4 South, Range 1 East, of the Willamette Meridian running; thence South 16 rods to the center of the Molalla-Canby Road; thence Northwesterly along the center of said road 17 rods 9 1/2 feet; thence East 7 rods, 3 feet to the place of beginning.

EXCEPT THEREFROM that portion lying within County Road No. 95.

ALSO EXCEPTING THEREFROM any portion lying within the boundaries of the following described tract:

Beginning at a point 1967.55 feet West and 1188.93 feet North of the Southeast corner of the Donation Land Claim of H.L. Dibble in Section 34, Township 4 South, Range 1 West of the Willamette Meridian, Clackamas County, Oregon; thence running North 200.00 feet to a point; thence West 280.00 feet; thence South 90.00 feet; thence West 470.00 feet to the center of the Molalla-Canby Road (County Road No. 95); thence Southwesterly along the center of said road, 21.92 feet; thence East 461.02 feet; thence South 90.00 feet; thence West 280.00 feet to the place of beginning.

PARCEL III:

Commencing at a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point bears North 00° 11' 22" West 1317.24 feet and North 89° 49' 31" West 1204.86 feet from the Southeast corner of Section 34, Township 4 South, Range 1 East, Willamette Meridian, Clackamas County, Oregon, said point being the Southwest corner of the Kober Tract, said point also being the Southeast corner of the Germany Tract; thence along the common boundary North 00° 43' 35" East 1070.91 feet to a point, said point being a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point being the True Point of Beginning; thence along said common boundary line North 10° 17' 24" East 1559.92 feet to a point, said point being a 5/8" iron rod with a yellow plastic cap marked "DK & Assoc.", said point also being located along the southerly in the City of Tualatin, County of Clackamas and State of Oregon, boundary of a tract of land Deed Parcel II of Deed Document No. 2005-077596 of Clackamas County Deed Records, said point also being the Northwest corner of said Kober Tract and also the Northeast corner of said Germany Tract; thence along said Southerly boundary North 89° 51' 26" West 12.68 feet to a point; thence South 00° 10' 33" East 1559.94 feet to the True Point of Beginning.

PARCEL IV:

Beginning at a point 1967.55 feet West and 1188.93 feet North of the Southeast corner of the Donation Land Claim of H.L. Dibble in Section 34, Township 4 South, Range 1 West of the Willamette Meridian, Clackamas County, Oregon; thence running North 200.00 feet to a point; thence West 280.00 feet; thence South 90.00 feet; thence West 470.00 feet to the center of the Molalla-Canby Road (County Road No. 95); thence Southwesterly along the center of said road, 21.92 feet; thence East 461.02 feet; thence South 90.00 feet; thence West 280.00 feet to the place of beginning.

The true consideration for this conveyance is \$800,000.00.

ENCUMBRANCES: THE LAND HAS BEEN CLASSIFIED AS FARMLAND AS DISCLOSED BY THE TAX ROLL. IF THE LAND BECOMES DISQUALIFIED SAID LAND MAY BE SUBJECT TO ADDITIONAL TAXES AND / OR PENALTIES

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE

472513512231MJM-CT42
Deed (Warranty - Statutory (Individual or Corporation))

RECEIVED

FEB 08 2019

OWRD

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MAY 15 2017

SALEM, OR

G-18515

A-18789

Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.140)

Include this checklist with the application

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

Please submit the original application and signatures to the Water Resources Department. Applicants are encouraged to keep a copy of the completed application.

- ☒ SECTION 1: Applicant Information and Signature
- ☒ SECTION 2: Property Ownership
- ☒ SECTION 3: Well Development
- ☒ SECTION 4: Sensitive, Threatened or Endangered Fish Species Public Interest Information
- ☒ SECTION 5: Water Use
- ☒ SECTION 6: Water Management
- ☒ SECTION 7: Project Schedule
- ☒ SECTION 8: Resource Protection
- ☒ SECTION 9: Within a District
- ☒ SECTION 10: Remarks

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OWRD

Include the following additional items:

- ☒ Land Use Information Form with approval and signature of local planning department (*must be an original*) or signed receipt.
- ☒ Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.
- ☐ Fees - Amount enclosed: \$ _____
See the Department's Fee Schedule at www.oregon.gov/owrd or call (503) 986-0900.
- ☒ Map that includes the following items:
 - ☐ Permanent quality and drawn in ink
 - ☐ Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
 - ☐ North Directional Symbol
 - ☐ Township, Range, Section, Quarter/Quarter, Tax Lots
 - ☐ Reference corner on map
 - ☐ Location of each diversion, by reference to a recognized public land survey corner (distances north/south and east/west)
 - ☐ Indicate the area of use by Quarter/Quarter and tax lot identified clearly.
 - ☐ Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery
 - ☐ Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)

Note: In addition to a groundwater application, a standard reservoir application is required to store groundwater in a reservoir. If an applicant proposes to divert water from a reservoir, a surface water application is also required.

Copied 2-8-2019 JP

Groundwater Application Review Summary Form

Application # G- 18515

GW Reviewer DENNIS ORLOWSKI

Date Review Completed: 8/16/2017

Summary of GW Availability and Injury Review:

[] Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

Summary of Potential for Substantial Interference Review:

[] There is the potential for substantial interference per Section C of the attached review form.

Summary of Well Construction Assessment:

☒ The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

PROPOSED WELL 2, CLAC 72276 → NO SURFACE SEAL INDICATED ON LOG

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

Added to file by Dept Staff
G-18789

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: Water Rights Section
 FROM: Groundwater Section Dennis Orlowski
 SUBJECT: Application G- 18515 Supersedes review of
 Date 08/16/2017
 Reviewer's Name
 Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation.*

A. GENERAL INFORMATION: Applicant's Name: Wayne and Amanda Staehely County: Clackamas

A1. Applicant(s) seek(s) 0.56 cfs from three well(s) in the Willamette Basin,
Pudding River subbasin

A2. Proposed use Nursery (72.6 acres) Seasonality: Year-round

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	CLAC 12773	1	Alluvium	0.560	T4S/R1E-34 NW-SE	3950' S, 1665' W fr NE cor S 34
2	CLAC 72276	2	Alluvium	0.560	T4S/R1E-34 NW-SE	2630' S, 2110' W fr NE cor S 34
3	Proposed	3	Alluvium	0.560	T4S/R1E-34 NE-SE	3545' S, 1200' W fr NE cor S 34

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	230	25	35	5/06/1986	285	0-20	0-285		91-185, 210-224, 255-279	300	240	Air
2	235		45	8/30/1961	108	Unknown	0-108		None	80	55	Unk
3	240	TBD	TBD	TBD	300	TBD	0-285		TBD	TBD	TBD	TBD

Use data from application for proposed wells.

A4. **Comments:** The proposed POAs and POU are approximately 4.5 miles northwest of Molalla, Oregon.

The applicant proposes to use two existing wells, CLAC 12273 and CLAC 72276, and a third proposed well not yet drilled, for year-round nursery use on 72.6 acres.

Note: the log for proposed POA Well 2, CLAC 72276, does not indicate the presence of a sealed surface interval; absent this information, it is likely not possible to determine if this well meets current OWRD well construction standards.

A5. ☒ **Provisions of the** Willamette Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water ☐ are, or ☒ are not, activated by this application. (Not all basin rules contain such provisions.)

Comments: The existing and proposed wells obtain/will obtain groundwater from a confined aquifer, so the pertinent basin rules (OAR 690-502-0240) do not apply.

A6. ☐ **Well(s) #** _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: _____
 Comments: Not applicable.

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

B1. **Based upon available data**, I have determined that groundwater* for the proposed use:

- a. ☐ is over appropriated, ☒ is not over appropriated, or ☐ cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b. ☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
- c. ☐ will not or ☐ will likely to be available within the capacity of the groundwater resource; or
- d. ☒ will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:
 - i. ☒ The permit should contain condition #(s) Medium water-use reporting, 7c (7-yrs. measurements);
 - ii. ☒ The permit should be conditioned as indicated in item 2 below.
 - iii. ☐ The permit should contain special condition(s) as indicated in item 3 below;

- B2.
- a. ☐ Condition to allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ☐ Condition to allow groundwater production from no shallower than _____ ft. below land surface;
 - c. ☒ Condition to allow groundwater production only from the alluvial groundwater reservoir ~~between approximately~~ _____ ft. and _____ ft. below land surface;
 - d. ☐ Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

- B3. **Groundwater availability remarks:** The proposed POAs obtain/will obtain groundwater from water-bearing sand and gravel deposits of the Willamette Aquifer system. The sand and gravel layers typically occur as beds ranging from ~5-20 ft thick, with a total cumulative thickness of ~40-50 feet, and are regularly interspersed with low-permeability silt and clay layers of similar thickness. The uppermost water-bearing layers are overlain by approximately 30-40 ft of silt and clay deposits (Willamette Silt) (Conlon and others, 2005; Gannett and Caldwell, 1998).

Within approximately one mile of the proposed POA locations there are about 25 mostly irrigation and nursery groundwater rights with wells completed in the alluvial aquifer, with several more exempt (domestic) wells also likely in the area. Reported maximum yields in the nearby alluvial wells range up to ~1000 gpm, but are more typically on the order of 50-200 gpm.

Groundwater level data for several alluvial aquifer wells in the area shows relative long-term stability for at least the past 15-20 years (see attached hydrograph). However, seasonal fluctuations can be moderately, on the order of ~20 ft, so there is the potential for seasonal pumping interference.

These factors indicate that water for the proposed use is likely available within the capacity of the resource, but if a permit is granted the recommended permit conditions should be included to monitor and protect the resource and other groundwater rights in the area.

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**C1. 690-09-040 (1): Evaluation of aquifer confinement:**

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvium (Willamette Aquifer)	☒	☐
2	Alluvium (Willamette Aquifer)	☒	☐
3	Alluvium (Willamette Aquifer)	☒	☐

Basis for aquifer confinement evaluation: The water-bearing zones in existing Wells 1 and 2/proposed Well 3 are/will be overlain by approximately 30-40 feet of low-permeability silts and clays (Willamette Silt). In the central Willamette Valley, Conlon and others (2005) report that fine-grained deposits (silt and clay) of 'more than 40 ft' thickness typically create confined conditions in the underlying water-bearing sand/gravel deposits. Furthermore, static groundwater levels in nearby wells are above the top of water-bearing units within the aquifer. These factors suggest that the proposed wells will obtain groundwater from a confined aquifer.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Wheeler Creek	195-205	160-200	3100	☒	☐	☐	☐	☒
1	2	Bear Creek	195-205	150-190	3670	☒	☐	☐	☐	☒
1	3	Creamery Creek	195-205	200-220	4950	☒	☐	☐	☐	☒
2	1	Wheeler Creek	195-205	160-200	1850	☒	☐	☐	☐	☒
2	2	Bear Creek	195-205	150-190	4930	☒	☐	☐	☐	☒
2	3	Creamery Creek	195-205	200-220	4000	☒	☐	☐	☐	☒
3	1	Wheeler Creek	195-205	160-200	2730	☒	☐	☐	☐	☒
3	2	Bear Creek	195-205	150-190	4025	☒	☐	☐	☐	☒
3	3	Creamery Creek	195-205	200-220	4450	☒	☐	☐	☐	☒

Basis for aquifer hydraulic connection evaluation: The estimated groundwater elevations in the alluvial aquifer are coincident with or just above the elevations of SW1, SW2 and SW3 within approximately one mile of each well. Furthermore, local water table maps indicate that groundwater in the alluvial aquifer system either flows towards (gaining reaches) or away from (losing reaches) local streams incised in the Willamette Silt (Conlon and others, 2003, 2005; Gannett and Caldwell, 1998). These facts indicate that the alluvial aquifer and local streams are hydraulically connected.

The depletion of local streams by proposed Well 1 will be attenuated, but not eliminated, by the low vertical hydraulic conductivity (permeability) of the Willamette Silt and other clays and silts that lie between the deeper sands and gravels and the stream beds. Net impacts will be relatively small at the onset of pumping, but will increase with time until a new equilibrium between local recharge and discharge is reached. At that time depletion is expected to be relatively constant throughout the year.

Water Availability Basin the well(s) are located within:

SW1, SW2: Pudding River > Molalla River – above Mill Creek (WID 151)

SW3: Molalla River > Willamette River – at mouth (WID 69796)

C3a. **690-09-040 (4):** Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
1	1	☐	☐			☐	67.30	☐	<<25%	☐
1	2	☐	☐			☐	67.30	☐	<<25%	☐
1	3	☐	☐			☐	134.00	☐	<<25%	☐
2	1	☐	☐			☐	67.30	☐	<<25%	☐
2	2	☐	☐			☐	67.30	☐	<<25%	☐
2	3	☐	☐			☐	134.00	☐	<<25%	☐
3	1	☐	☐			☐	67.30	☐	<<25%	☐
3	2	☐	☐			☐	67.30	☐	<<25%	☐
3	3	☐	☐			☐	134.00	☐	<<25%	☐

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐

Comments: C3a: The Hunt 2003 analytical stream depletion model was used to estimate 30-day interference at SW1 (Wheeler Creek) caused by pumping Well 2 (worst-case scenario given relative proximity). Model results indicate that interference is expected to be much less than 25% of the maximum allocated pumping rate at 30 days. The model was not applied to the other scenarios because they are farther from respective streams, and thus, given a similar hydrogeologic setting, the estimated 30-day stream depletion percentages would be even less than that estimated for the Well 2/SW 1 scenario.

C3b: not applicable.

C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													

(D) = (A) > (C)												
(E) = (A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation: Not applicable.

C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5. ☐ **If properly conditioned**, the surface water source(s) can be adequately protected from interference, and/or groundwater use under this permit can be regulated if it is found to substantially interfere with surface water:
- ☐ The permit should contain condition #(s) _____;
 - ☐ The permit should contain special condition(s) as indicated in "Remarks" below;

C6. **SW / GW Remarks and Conditions:** _____

References Used: Application file: G-18515.

Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2005-5168.

Conlon, T.D., Lee, K.K., and Risley, J.R., 2003, Heat tracing in streams in the central Willamette Basin, Oregon, in Stonestrom, D.A. and Constantz, Jim, eds., Heat as a tool for studying the movement of groundwater near streams: U.S. Geological Survey Circular 1260, chapter 5, p. 29-34.

Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-A, 32 p.

Hunt, B., 2003, Unsteady stream depletion when pumping from semiconfined aquifer: Journal of Hydrologic Engineering, January/February, 2003.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: 2 Logid: CLAC 72276

D2. **THE WELL does not appear to meet current well construction standards based upon:**

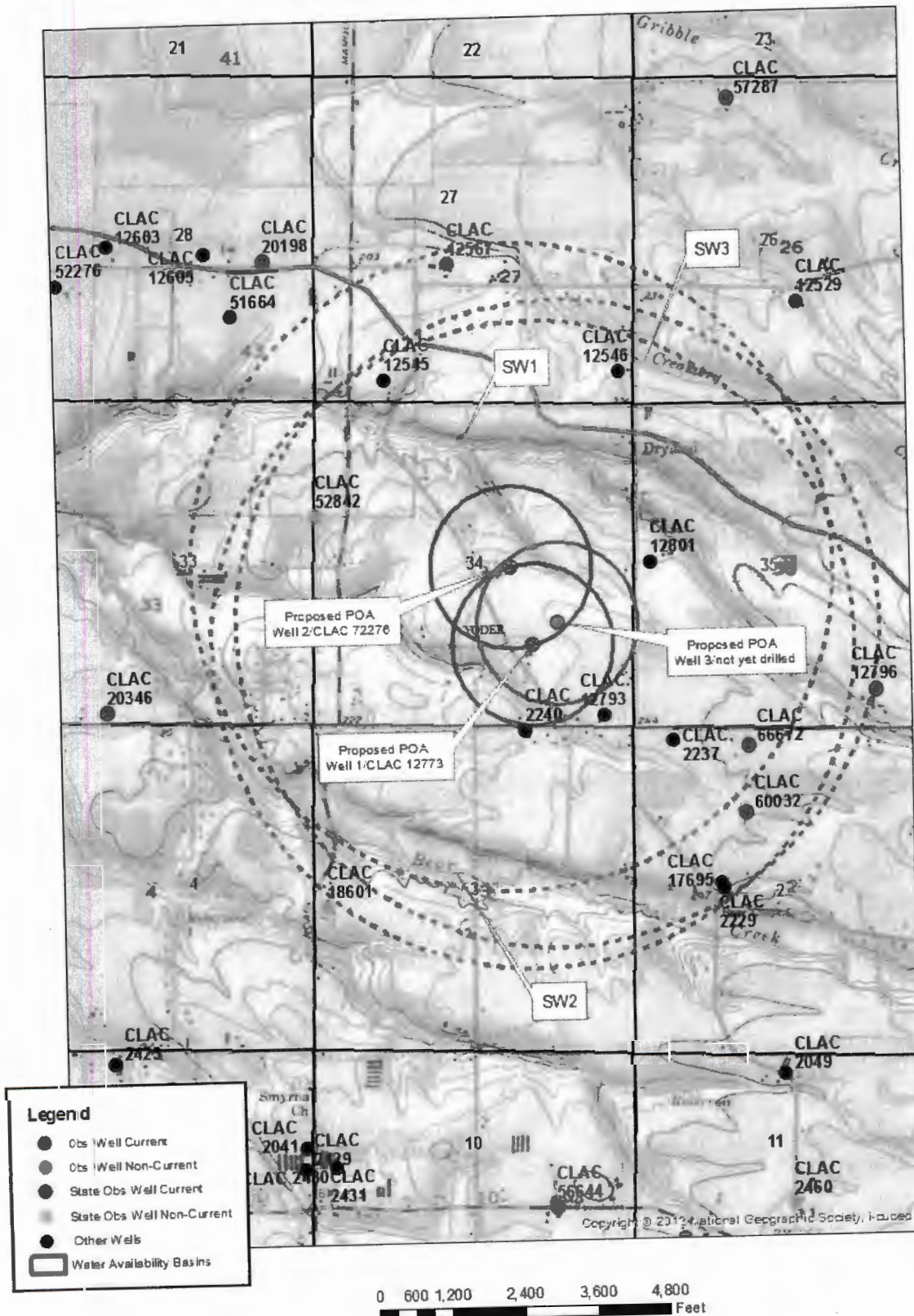
- a. ☒ review of the well log;
- b. ☐ field inspection by _____;
- c. ☐ report of CWRE _____;
- d. ☐ other: (specify) _____

D3. **THE WELL construction deficiency or other comment is described as follows:** The log for Well 2, CLAC 72276, does not indicate the presence of a surface seal.

D4. ☒ **Route to the Well Construction and Compliance Section for a review of existing well construction.**

Well Location Map

Application G-18515 Staehely T4S, R1E Section 34



Water Availability Tables

Water Availability Analysis

Detailed Reports

PUDDING R > MOLALLA R - AB MILL CR
 WILLAMETTE BASIN

Water Availability as of 8/16/2017

 Watershed ID #: 151 ([Map](#))

Date: 8/16/2017

Exceedance Level: 80%

Time: 11:09 AM

[Water Availability Calculation](#)
[Water Rights](#)
[Consumptive Uses and Storages](#)
[Instream Flow Requirements](#)
[Watershed Characteristics](#)
[Reservations](#)

Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second
 Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	1,040.00	124.00	916.00	0.00	36.00	880.00
FEB	1,100.00	114.00	1,070.00	0.00	36.00	1,036.00
MAR	1,310.00	75.70	934.00	0.00	36.00	898.00
APR	787.00	51.50	735.00	0.00	36.00	699.00
MAY	425.00	40.90	376.00	0.00	36.00	340.00
JUN	224.00	62.90	154.00	0.00	36.00	113.00
JUL	109.00	110.00	0.57	0.00	36.00	-37.00
AUG	71.00	90.20	-19.20	0.00	36.00	-45.20
SEP	87.30	51.40	15.90	0.00	36.00	-20.10
OCT	91.60	11.00	80.60	0.00	30	-44.60
NOV	363.00	48.30	315.00	0.00	36.00	279.00
DEC	957.00	113.00	844.00	0.00	36.00	808.00
ANN	706,900.00	55,100.00	651,000.00	0.00	26,100.00	627,000.00

Water Availability Analysis

Detailed Reports

MOLALLA R > WILLAMETTE R - AT MOUTH
 WILLAMETTE BASIN

Water Availability as of 8/16/2017

 Watershed ID #: 69796 ([Map](#))

Date: 8/16/2017

Exceedance Level: 80%

Time: 11:11 AM

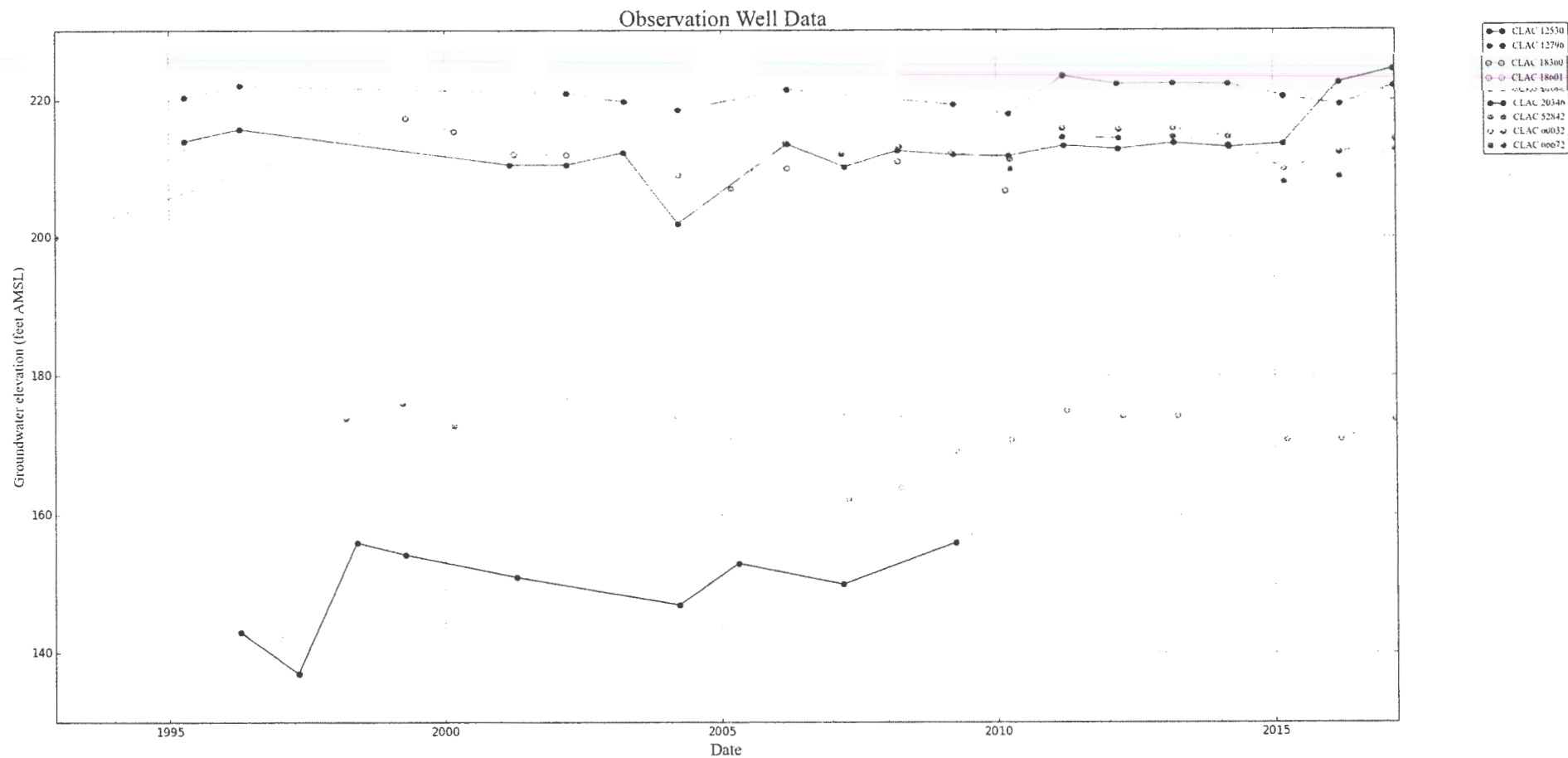
[Water Availability Calculation](#)
[Water Rights](#)
[Consumptive Uses and Storages](#)
[Instream Flow Requirements](#)
[Watershed Characteristics](#)
[Reservations](#)

Water Availability Calculation

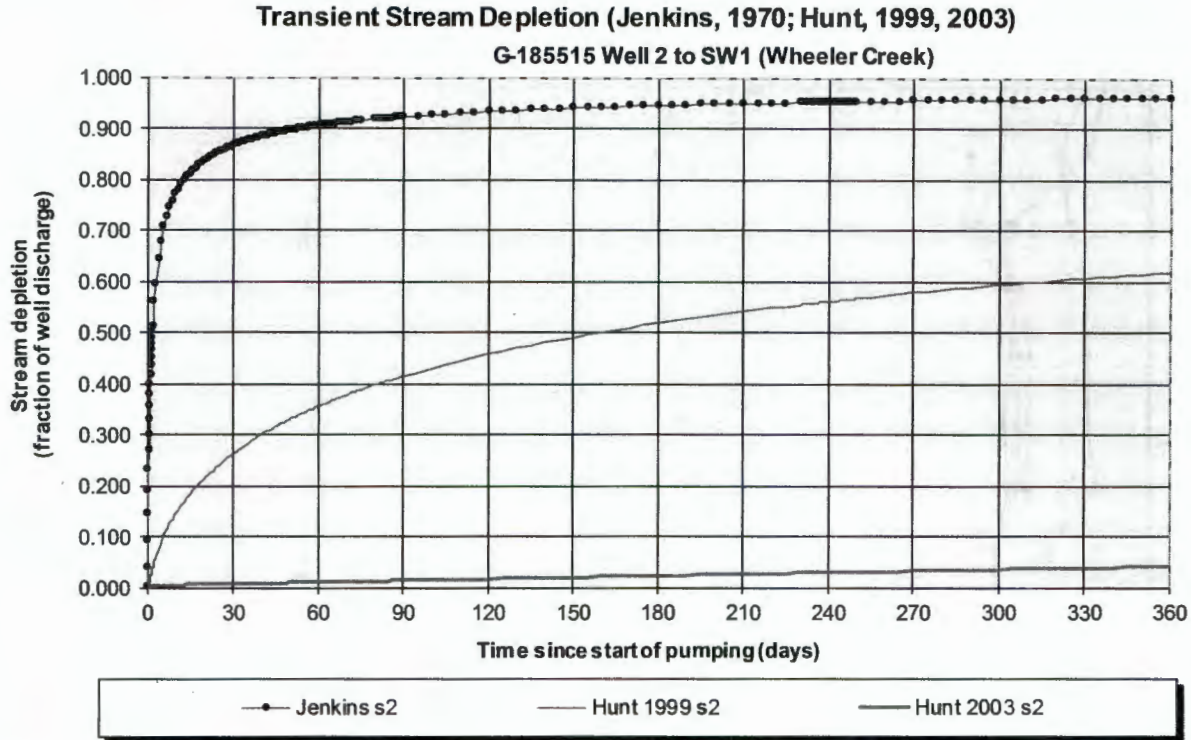
Monthly Streamflow in Cubic Feet per Second
 Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	1,870.00	153.00	1,720.00	0.00	500.00	1,220.00
FEB	2,010.00	143.00	1,870.00	0.00	500.00	1,370.00
MAR	1,830.00	111.00	1,720.00	0.00	500.00	1,220.00
APR	1,530.00	84.60	1,450.00	0.00	500.00	945.00
MAY	927.00	95.00	832.00	0.00	500.00	332.00
JUN	431.00	116.00	315.00	0.00	500.00	-185.00
JUL	204.00	160.00	24.00	0.00	200.00	-176.00
AUG	119.00	151.00	12.00	0.00	100	-112.00
SEP	124.00	80.00	44.00	0.00	150.00	-96.00
OCT	118.00	38.30	150.00	0.00	100.00	100.00
NOV	637.00	78.00	559.00	0.00	500.00	59.00
DEC	1,750.00	148.00	1,602.00	0.00	500.00	1,052.00
ANN	1,320,000.00	53,200.00	1,240,000.00	0.00	295,000.00	947,000.00

Water-Level Trends in Nearby Wells (static only)



Analytical Stream Depletion Model Results (Hunt, 2003)



Output for Stream Depletion, Scenerio 2 (s2):						Time pump on (pumping duration) = 365 days						
Days	30	60	90	120	150	180	210	240	270	300	330	360
J SD	86.6%	90.5%	92.2%	93.3%	94.0%	94.5%	94.9%	95.2%	95.5%	95.7%	95.9%	96.1%
H SD 1999	26.2%	35.5%	41.4%	45.7%	49.0%	51.8%	54.1%	56.0%	57.8%	59.3%	60.6%	61.8%
H SD 2003	0.74%	1.05%	1.37%	1.69%	2.01%	2.33%	2.64%	2.95%	3.26%	3.56%	3.85%	4.14%
Qw, cfs	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560
H SD 99, cfs	0.147	0.199	0.232	0.256	0.275	0.290	0.303	0.314	0.323	0.332	0.339	0.346
H SD 03, cfs	0.004	0.006	0.008	0.009	0.011	0.013	0.015	0.017	0.018	0.020	0.022	0.023

Parameters:		Scenario 1	Scenario 2	Scenario 3	Units
Net steady pumping rate of well	Qw	0.56	0.56	0.56	cfs
Time pump on (pumping duration)	tpon	365	365	365	days
Perpendicular from well to stream	a	1850	1850	1850	ft
Well depth	d	108	108	108	ft
Aquifer hydraulic conductivity	K	10	50	100	ft/day
Aquifer saturated thickness	b	40	40	40	ft
Aquifer transmissivity	T	400	2000	4000	ft ² /day
Aquifer storativity or specific yield	S	0.001	0.001	0.001	
Aquitard vertical hydraulic conductivity	Kva	0.1	0.1	0.1	ft/day
Aquitard saturated thickness	ba	35	35	35	ft
Aquitard thickness below stream	babs	10	10	10	ft
Aquitard porosity	n	0.2	0.2	0.2	
Stream width	ws	20	20	20	ft
Streambed conductance (lambda)	sbc	0.200000	0.200000	0.200000	ft/day
Stream depletion factor	sdf	8.556250	1.711250	0.855625	days
Streambed factor	sbfb	0.925000	0.185000	0.092500	
input #1 for Hunt's Q_4 function	t'	0.116874	0.584368	1.168736	
input #2 for Hunt's Q_4 function	K'	24.446429	4.889286	2.444643	
input #3 for Hunt's Q_4 function	epsilon'	0.005000	0.005000	0.005000	
input #4 for Hunt's Q_4 function	lamda'	0.925000	0.185000	0.092500	

CLAC 72276

CLAC 72276

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGONWATER WELL REPORT
STATE OF OREGON

State Well No. _____

State Permit No. _____

(1) OWNER:

Name Levis Massey
Address Rt 2 Box 370 Canby Ore

(2) LOCATION OF WELL:

County Clackamas Owner's number, if any--
Tax Lot 5413 Section 34 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner 360102251
orange corner on west side of property
Known as Tax Lot 5413

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment describe material and procedure in Item 11.

(4) 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 ☒
6.00" Diam. from 0 ft. to 108 ft. Gage 1875
" 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.
perforations from		ft. to	ft.

(8) SCREENS:

Well screen installed ☐ Yes ☒ NoManufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ 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 4.5 ft. below land surface Date 8-30-61
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: _____

[Signed] Levis Massey Date 8-31, 1961
(Owner)

(11) WELL TESTS:

Drawdown is amount water level is
lowered below static level.Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller
Yield: 80 gal./min. with 55 ft. drawdown after 4 hrs.

Batter test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water 53 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well 5 5/8 inches.Depth drilled 109 ft. Depth of completed well 108 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
Topsoil	0	3
Brown clay	3	28
Blue silt	28	37
cement gravel (Brown)	27	64
Brown clay	64	67
cement gravel	67	77
Brown clay	77	83
cement gravel	83	95
Loose gravel (20 g/m)	95	96
Brown clay	96	104
Loose gravel (water 9 m)	104	104

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JUN 27 2015

WATER RESOURCES DEPT
SALEM, OREGON

Hardness

P.H. 7.2

Iron (trace)

Work started 8-23 1961 Completed 8-30 1961

(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 S. W. Beck Well Drilling
(Person, firm, or corporation) (Type or print)Address Rt 3 Box 45 CanbyDriller's well number 504[Signed] John W Beck
(Well Driller)License No. 95 Date 8-30, 1961

(USE ADDITIONAL SHEETS IF NECESSARY)

CLAC 72276

CLAC 72276

Well #2

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

WATER WELL REPORT

STATE OF OREGON

State Well No.

State Permit No.

(1) OWNER:

Name Levis Massey
Address Rt 2 Box 370 Canby Ore

(2) LOCATION OF WELL:

County Clackamas Owner's number, if any—
Tax Lot 5413 Section 34 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner 360104351
of angle corner on west side of property
Known as Tax Lot 5413

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:

6" Diam. from 0 ft. to 108 ft. Gage 1875
" 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.			
perforations from ft. to ft.			

(8) SCREENS:

Well screen installed ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. 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 44 ft. below land surface Date 8-30-61

Artesian pressure lbs. per square inch Date

Log Accepted by:

[Signed] Levis Massey Date 8-31, 1961
(Owner)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level.

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller
Yield: 80 gal./min. with 55 ft. drawdown after 4 hrs.

" " " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water 53 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well 5 5/8 inches.Depth drilled 109 ft. Depth of completed well 108 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
Topsoil	0	3
Brown clay	3	28
Blue silt	28	37
cement gravel (Brown)	27	64
Brown clay	64	67
Cement gravel	67	79
Brown clay	79	83
Cement gravel	83	95
loose gravel (20 gpm)	95	96
Brown clay	96	104
loose gravel (water 9 mft)	104	104

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JUN 27 2016

WATER RESOURCES DEPT
SALEM, OREGON

Hardness

P.H. 7.2

Iron (Trace)

Work started 8-23 1961 Completed 8-30 1961

(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 S. W. Beck Well Drilling
(Person, firm, or corporation) (Type or print)Address Rt 3 Box 45 CanbyDriller's well number 504[Signed] John W Beck
(Well Driller)License No. 95 Date 8-30, 1961

(USE ADDITIONAL SHEETS IF NECESSARY)

G-18789

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.785)

RECEIVED

MAY 20 1986

PLEASE TYPE OR PRINT IN INK

WATER RESOURCES DEPT.

(for official use only)

(1) OWNER:

Name STEVE GERMANY
Address JACKSON RD
City CANBY State Oregon

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☐ Cable Rig ☐ Drilled ☐
Rotary Mud ☐ Dug ☐
Cable ☒ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Irrigation ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Thermal ☐ Withdrawal ☐ ReInjection ☐
Other: ☐ Piezometric ☐ Grounding ☐ Test ☐

(5) CASING INSTALLED:

Steel ☒ Plastic ☐
Threaded ☐ Welded ☐
8" Diam. from 0 ft. to 285 ft. Gauge .25

LINER INSTALLED:

Steel ☐ Plastic ☐
Threaded ☐ Welded ☐
" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

STAR Perforated? ☐ Yes ☐ No
Size of perforations 1.5 in. by 3/8 in.
530 perforations from 91 ft. to 185 ft.
205 perforations from 240 ft. to 224 ft.
350 perforations from 255 ft. to 279 ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot Size Set from ft. to ft.
Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
300 gal./min. with 240 ft. drawdown after 5 hrs.
Air test 300 gal./min. with drill stem at 275 ft. 5 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☒
Well seal—Material used Granular Bentonite
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Amount of sealing material 43 sacks 10 lbs.
How was cement grout placed? Granular Bentonite Method

Was pump installed? No Type HP Depth ft.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata ft.
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL by legal description:

County CLACKAMAS SW 1/4 of Section 34
Township 4S (Township is North or South) Range 1E (Range is East or West) WM.
Tax Lot Lot Block Subdivision
MAILING ADDRESS OF WELL (or nearest address)

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 25 ft.
Static level 35 ft. below land surface. Date May 06, 1986
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8 in.
Depth drilled 285 ft. Depth of completed well 285 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
TOPSOIL	1	3	
CLAY BN	3	23	
CLAY GREY	23	26	
CEMENT GRAVEL	26	85	
CLAY TAN	85	91	
CEMENT GRAVEL	91	100	
CLAY TAN	100	116	
CEMENT GRAVEL	116	136	
CLAY GREY	136	157	
CEMENT GRAVEL	157	163	
CLAY GREY	163	174	
CEMENT GRAVEL	174	185	
CLAY BLUE	185	210	
SAND CLAY LAYERS	210	224	
SILT BLACK	224	235	
CLAY BLUE	235	255	
SAND LAYERS IN GREEN CLAY	255	265	
SAND LAYERS GREY CLAY	265	281	
CLAY	281	285	

note: Depth measured from top of well (ie. 1' above ground level)

Date work started Apr 07 86 /completed May 06 86
Date well drilling machine moved off of well May 07 19 86

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date, 19

(bonded) Water Well Constructor Certification:

Bond SR34200 Issued by: Thomas Haun
(number) (Surety Company Name)
On behalf of BECK WELL DRILLING
(type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

(Signed) Richard Beck
(Water Well Constructor)

(Dated) May 7, 1986

NOTICE TO WATER WELL CONSTRUCTOR
The original and first copy of this report
are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

SP*46886-690

Q-18789