

December 23, 2015

Oregon Water Resources Department  
725 Summer Street N.E., Suite A  
Salem, Oregon 97301-1271

RE: Application for a Permit to Use Ground Water - City of Adams, Oregon

To Whom It May Concern:

On behalf of the City of Adams, Oregon, we are submitting an Application for a Permit to Use Ground Water for your review. Enclosed are the following:

- Completed and signed Application for a Permit to Use Ground Water
- Check for \$2,200, which includes the \$1,150 base application fee, the \$450 permit recording fee, and fees for an estimated flow rate of 600 gallons per minute
- Figure 1 showing the proposed well location and all other required information
- Form M
- Signed Land Use Information Form
- Well log for adjacent well (Well Log UMAT 5331)

To assist with your review and to help clarify the City's intent for a new well, we have summarized additional information herein.

The City of Adams needs an additional reliable water source in case the City's only reliable supply well were to fail. This well will also support long-term needs as the population increases. The City desires to construct the new water supply well to supplement the existing water supply; it is the City's hope that the new well will help meet current and long-term water demands and provide water supply system reliably.

It is the City's intent to drill the new well adjacent to the existing 250,000-gallon storage reservoir, which was constructed during the 2001 water system improvements project. The existing reservoir is located just northwest of the City outside of the place of use boundary. The current primary water source, Well No. 3, has a completed depth of approximately 1,725 feet (see the attached well log). Basalt was encountered in this well at a depth of approximately 23 feet below ground surface. The new supply well will be cased over its entire depth (estimated to be 1,600 feet), and the upper 900 feet or so will be sealed so water will be withdrawn from basalt aquifer formations deeper than 900 feet. Actual drilling conditions and materials encountered may require modifications to this plan; however, the intent is to establish a continuous seal from the ground surface to a depth of at least 900 feet for water quality protection and to obtain groundwater from deeper basalt formations, similar to those in existing Well No. 3.

The City is in the process of designing the new well and hopes to drill the well in the late spring of 2016. We would appreciate your review of the Application prior to this time to facilitate drilling the well in this time frame.

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Please do not hesitate to call me if you have questions concerning any of the information presented herein or if you need additional information. We look forward to your review comments on the Application.

Sincerely,

ANDERSON PERRY & ASSOCIATES, INC.

By Brad D. Baird  
Brad D. Baird, P.E.

BDB/ct

Enclosures

cc: Carrie Bennett, City Recorder, City of Adams (w/encl.)  
Greg Silbernagel, Umatilla County Watermaster (w/encl.)  
File No. 176-52-37 (w/encl.)

G:\Clients\Adams\Water\176-52\Correspondence\OWRD-WellPermitApp.docx

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# Application for a Permit to Use Ground Water



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

## Water-Use Permit Application Processing

### 1. Completeness Determination

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

### 2. Initial Review

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

### 3. Public Notice

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

### 4. Proposed Final Order Issued

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

### 5. Public Notice

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

### 6. Final Order Issued

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

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# Minimum Requirements Checklist

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

## Include this checklist with the application

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

- SECTION 1: applicant information and signature
- SECTION 2: property ownership
- SECTION 3: well development
- SECTION 4: water use
- SECTION 5: water management
- SECTION 6: storage of groundwater in a reservoir
- SECTION 7: use of stored groundwater from the reservoir
- SECTION 8: project schedule
- SECTION 9: within a district
- SECTION 10: remarks

### Attachments:

- Land Use Information Form with approval and signature (*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. Example: A copy of the deed, land sales contract or title insurance policy.
- Fees - Amount enclosed: \$2,200  
See the Department's Fee Schedule at [www.oregon.gov/owrd](http://www.oregon.gov/owrd) or call (503) 986-0900.

### Provide a map and check that each of the following items is included:

- 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 well, and/or dam if applicable, by reference to a recognized public land survey corner (distances north/south and east/west). Each well must be identified by a unique name and/or number.
- Indicate the area of use by Quarter/Quarter and tax lot clearly identified
- Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)
- Other \_\_\_\_\_

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# Application for a Permit to Use Ground Water



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

## SECTION 1: APPLICANT INFORMATION AND SIGNATURE

### Applicant Information

NAME		PHONE (HM)	
PHONE (WK)	CELL	FAX	
ADDRESS			
CITY	STATE	ZIP	E-MAIL*

### Organization Information

NAME		PHONE	FAX
CITY OF ADAMS, OREGON		541-566-9380	541-566-2077
ADDRESS		CELL	
P.O. BOX 20			
CITY	STATE	ZIP	E-MAIL*
ADAMS	OR	97810	CITYOFADAMS@WTECHLINK.US

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

AGENT / BUSINESS NAME		PHONE	FAX
BRAD D. BAIRD, P.E., ANDERSON PERRY & ASSOCIATES, INC.		541-963-8309	541-963-5456
ADDRESS		CELL	
P.O. BOX 1107 / 1901 N. FIR STREET			
CITY	STATE	ZIP	E-MAIL*
LA GRANDE	OR	97850	BBAIRD@ANDERSONPERRY.COM

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 final order documents will also be mailed.)

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### 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.

 Carrie G. Bennett  
Applicant Signature

Carrie G. Bennett, City Recorder  
Print Name and title if applicable

12/22/15  
Date

Applicant Signature

Print Name and title if applicable

Date

For Department Use		
App. No. <u>G-1983</u>	Permit No. _____	Date _____

**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.
  - This land is encumbered by easements, rights of way, roads or other encumbrances.
- No
  - I have a recorded easement or written authorization permitting access.
  - I do not currently have written authorization or easement permitting access.
  - 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).
  - Water is to be diverted, conveyed, and/or used only on federal lands.

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

\_\_\_\_\_

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

**SECTION 3: WELL DEVELOPMENT**

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
2	Wildhorse Creek	Approximately 112 feet	Approximately 12 feet above Wildhorse Creek
3	Wildhorse Creek	Approximately 2,000 feet	Approximately 70 feet above Wildhorse Creek
4	Sand Hollow Creek	Approximately 3,900 feet	Approximately 114 feet above Sand Hollow Creek

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

\_\_\_\_\_

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**SECTION 3: WELL DEVELOPMENT, CONTINUED**

Total maximum rate requested: 600 gallons per minute (gpm) (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)
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UMAT 5331	<input type="checkbox"/>	12-inch 10-inch 8-inch	0 to 800 800 to 820 820 to 1,150	N/A N/A 820 to 1,150	0 to 800 (12-inch) 0 to 20 (10-inch)	133 October 19, 1989	Columbia River Basalt Formations	1,150	375	61.5 (assume 25 percent annual use)
New (4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	12-inch 10-inch 8-inch	0 to 900 900 to 920 920 to 1,600	N/A N/A 920 to 1,600	0 to 900 (12-inch) 0 to 20 (10-inch)	N/A	Columbia River Basalt Formations	1,600	600	77 (Based on Well No. 3 [UMAT 5331] Report ID 25607 Facility Water Use Report)
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

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<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>										

- \* 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: WATER USE**

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Municipal	Year-round	77 acre-feet (annual volume based on 25 percent annual usage)

**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.

**For irrigation use only:**  
 Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).  
 Primary: N/A Acres                      Supplemental: N/A Acres  
 List the Permit or Certificate number of the underlying primary water right(s): N/A  
 Indicate the maximum total number of acre-feet you expect to use in an irrigation season: N/A

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: N/A  
 If the use is **mining**, describe what is being mined and the method(s) of extraction: N/A

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**SECTION 5: WATER MANAGEMENT**

**A. Diversion and Conveyance**

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

Pump (give horsepower and type): 60 horsepower submersible vertical turbine (horsepower estimated)

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)  
Existing transmission line from the existing 250,000-gallon storage reservoir to the City.

**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.

The City of Adams will meter the new well and will continue to compare water delivered to the water used (annual water audit). Audit results will dictate whether or not to pursue further conservation measures.

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

If you would like to store ground water in a reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Reservoir name: Existing 250,000-gallon welded steel municipal reservoir, which is 19 feet tall and 53 feet in diameter. Acreage inundated by reservoir: N/A

Use(s): Municipal

Volume of Reservoir (acre-feet): 0.77 Dam height (feet, if excavated, write "zero"): N/A

*Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.*

**SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR**

If you would like to use stored ground water from the reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Annual volume (acre-feet): 77

USE OF STORED GROUND WATER	PERIOD OF USE
Municipal	Year-round

**SECTION 8: PROJECT SCHEDULE**

Date construction will begin: May 2016

Date construction will be completed: August 2016

Date beneficial water use will begin: August 2017

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**SECTION 9: WITHIN A DISTRICT**

**SALEM, OR**

Check here if the point of diversion or place of use are located within or served by an irrigation or other water district.

Irrigation District Name	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*).

As stated earlier, the City intends to add a new Well No. 4 to provide water supply reliability and to help meet water demands for the current population and future projections. The City uses Well No. 3 as its main water source. Well No. 2 was formerly an emergency backup source but is no longer reliable. Well No. 4 will also be used as another

reliable primary source of water in case Well No. 3 were to fail. The City of Adams is requesting a new well permit for 600 gpm for Well No. 4. The City is in the process of designing the well and is also pursuing alternatives to fund well construction.

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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

## 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.

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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

Applicant: City of Adams

First

Last

Mailing Address: P.O. Box 20

Adams

City

Oregon  
State

97810  
Zip

Daytime Phone: 541-566-9380

## 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:
3N	34E	4	NW, NW	3N34B0 00-200	Municipal <i>EFU</i>	<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	Muni
3N	34E	4	NE, SE	3N3404 AD-1700	Municipal	<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	Muni
3N	34E	4	NW, SE	3N3404 DB-1201	Municipal	<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	Muni
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	

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

Umatilla County, City of Adams, Oregon.

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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 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: 600 gallons per minute     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 \_\_\_\_\_

Briefly describe:

See Attachment A.

**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. →**

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**WR**

## 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): UCDC/52.056
- 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

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.

*Tax Lot #200, Map 3N34B is the only parcel listed that is under County Land Use Jurisdiction*

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Name: CARDI JOHNSON Title: Carol Johnson, Planner SALEM, OR  
 Signature: *Carol Johnson* Phone: 541-278-6252 Date: 12-18-2015  
 Government Entity: \_\_\_\_\_

**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: \_\_\_\_\_

**Application for a Permit to Use Ground Water  
Attachment A**

**B. Description of Proposed Use:**

The City currently operates Well No. 3 as its primary source. Well No. 3 is certified for 175 gallons per minute (gpm). Well No. 2 was formerly used for emergency backup and is certified at approximately 117 gpm. The City requires additional water to reliably meet the City's municipal needs. The City also needs another main water source in case Well No. 3 were to fail in any way. The City is proposing to drill a new well, Well No. 4, next to the existing 250,000-gallon storage reservoir just outside the area of use. This Application for a Permit to Use Ground Water seeks a permit for 600 gpm for the proposed Well No. 4 for the City of Adams.

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# Oregon Water Resources Department

## FORM M

### FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).  
1 acre-foot is equal to 325,851 gallons.

#### Background Information

Name of water supplier: City of Adams, Oregon

Name and size of area to be served: Adams, Oregon; approximately 236 acres  
(in square miles)

Present population of service area: 370 (based on the Population Research Center at Portland State University [PSU] 2014 certified population.)  
(Contact county planning staff, if needed.)

Projected population in 20 years: 506 (based on PSU projections)  
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>August 12, 1960</u>	<u>Basalt, City Well No. 2</u>	<u>0.26 cubic feet per second (cfs)</u>	<u>Municipal</u>
<u>September 23, 1991</u>	<u>Basalt, City Well No. 3</u>	<u>0.39 cfs</u>	<u>Municipal</u>
_____	_____	_____	_____
_____	_____	_____	_____

#### Water Use

Average **yearly** demand: 73.11 AFY Year: 2014

Per-capita daily consumption (in gallons): 176.4 gallons  
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

**Peak season** (by month/day): 7/1 to 8/31 **Total peak season** demand: 26.6 Acre-feet

**Peak season** per-capita daily consumption: 378 gallons  
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 23,823,000 gallons  
(diverted or pumped)

Delivered: 23,823,000 gallons

Is your system fully metered?  Yes  No

Describe your rate structure: Increasing block rate for conservation purposes.  
(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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Request for Water

A. Discuss the reason(s) for your request for additional water  
(e.g. loss of current supply, peak demand, growth, or other):

The City is dependent on one main water source and would like to reliably produce enough water to sustain current and future water demands. Well No. 4 will be another main water source in case Well No. 3 fails.

B. How long is the amount of water requested in this application expected to meet future needs?  
(e.g. until the year 2040) 2030 to 2040

C. Briefly discuss operation of water system and the most constraining component of the system:

The City has three basalt wells, of which one is unusable and one that cannot meet current water demands. Water from Well No. 3 is pumped to the only storage reservoir in use, which is the 250,000-gallon reservoir located outside the area of use where the proposed Well No. 4 will be drilled. The new Well No. 4 will discharge directly to the adjacent 250,000-gallon reservoir. The most constraining component is reliable water supply availability. Once the new well is drilled and on line, the City will have two main water sources. This well will also ensure that future water demands are met.

D. Percentage of water use by type:

Residential: \_\_\_\_\_ Commercial: \_\_\_\_\_  
Public Authority: \_\_\_\_\_ Agricultural: \_\_\_\_\_  
Unaccounted for use: \_\_\_\_\_ Industrial: \_\_\_\_\_  
Other (specify use): \_\_\_\_\_

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

The City of Adams is relying on one main water source to sustain the population, and water system (public) safety will be an issue if Well No. 3 were to fail. Conservation efforts will not compensate for the water required if the City were to lose its only supply well. The City's water use is already low compared to other cities in eastern Oregon. An additional well is needed for system reliability.

F. How and by how much will your proposed water use efficiency programs increase efficiency?  
(Express as a percentage of per-capita consumption.)

As stated previously, the City's water needs cannot be met through conservation efforts alone. While the City does practice conservation, it requires another reliable main water source in case of an emergency, which cannot be eliminated by additional conservation.

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Last revision: March 26, 2009

SALEM, OR

G-19183

STATE OF OREGON  
**WATER WELL REPORT**  
 (as required by ORS 587.705)

UMAT 533  
 PAGE 1 OF 2

OCT 19 1989

3N/34E/4db

WATER RESOURCES DEPT. (START CARD) # 1492  
 SALEM, OREGON

(1) OWNER: Well Number: # 3  
 Name CITY OF ADAMS  
 Address P.O. BOX 20  
 City ADAMS State OR Zip 97110

(2) TYPE OF WORK:  
 New Well  Deepen  Recondition  Abandon

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  
 Other ROTARY REVERSE AIR DEC 28 20

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation SALEM, OR  
 Thermal  Injection  Other

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval Yes  No  Depth of Completed Well 1725 ft.  
 Explosives used  Yes  No  Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
18	0	46	NEAT			
14 3/4	46	800	CEMENT	0	800	308 SAKS
10	800	1725	NONE			

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 12	71	800	1.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 10	780	800	1.365	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	800	1147	1.322	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:  
 Perforations Method MILL CUT  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
800	1147	4/3	9716	8"		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air Pump  Flowing Artesian  
 Yield gal/min Drawdown Drill stem at Time

300	157	560	1 hr. + 30 min
500	239	560	1 hr + 30 min
700	358	560	17 HRS.

Temperature of water 69 Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom CITY ENGINEER  
 Did any strata contain water not suitable for intended use?  Too little NO  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
 County UMATILLA Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 3 (N or S, Range 34 (E or W, WM. \_\_\_\_\_  
 Section 4 NW 1/4 SE 1/4  
 Tax Lot 1201 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) ADAMS OR

(10) STATIC WATER LEVEL:  
133 ft. below land surface. Date SEPT 15 89  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found 1286

From	To	Estimated Flow Rate	SWL
1286	1299	50 GPM	133
1299	1376	75 GPM	133
1492	1503	100 GPM	133
1699	1725	500+ GPM	133

(12) WELL LOG: Ground elevation \_\_\_\_\_

Material	From	To	SWL
TAN CLAY	0	23	
GRAY BASALT	23	148	
BRN CLAY + BRN BASALT	148	166	
GRAY BASALT	166	200	
BLK BASALT	200	217	
GRAY BASALT	217	244	
GRN CLAY + BLK BASALT	244	269	
BLK BASALT	269	297	
BLK BASALT + GRN CLAY	297	336	
BLK BASALT	336	361	
BLK BASALT + GRN CLAY	361	528	
BLK BASALT	528	562	
GRAY BASALT	562	576	
BLK BASALT	576	609	
BLK BASALT HARD	609	640	
GRN CLAY	640	649	
BLK BASALT + GRN CLAY	649	667	
GRAY BASALT	667	748	
BLK BASALT + GRAY CLAY	748	763	
GRAY BASALT	763	878	
BLK BASALT + RED CLAY	878	883	
GRAY BASALT HARD	883	923	

Date started JULY 24 89 Completed SEPT 16 89

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

(bonded) Water Well Constructor Certification:  
 I accept responsibility for the construction, 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 well construction standards. This report is true to the best of my knowledge and belief.  
 WWC Number 534  
 Signed Arnold S. Holman Date OCT 13 89

G-18183

OCT 19 1989

3N/34E/4d6  
1492

STATE OF OREGON  
WATER WELL REPORT  
(as required by ORS 537.765)

PAGE 2 OF 2 WATER RESOURCES DEPT (START CARD) #

(1) OWNER: Well Number # 3  
Name CITY OF ADAMS  
Address P.O. Box 20  
City ADAMS State OR Zip 97180

(9) LOCATION OF WELL by legal description:  
County \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township \_\_\_\_\_ N or S, Range \_\_\_\_\_ E or W, WM.  
Section \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) \_\_\_\_\_

(2) TYPE OF WORK:  
 New Well  Deeper  Recondition  Abandon

(10) STATIC WATER LEVEL:  
\_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  
 Other \_\_\_\_\_

(11) WATER BEARING ZONES:  
Depth at which water was first found \_\_\_\_\_

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Other \_\_\_\_\_

From	To	Estimated Flow Rate	SWL

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval Yes No Depth of Completed Well \_\_\_\_\_ ft.  
Explosives used Yes No Type \_\_\_\_\_ Amount \_\_\_\_\_

(12) WELL LOG: Ground elevation \_\_\_\_\_

HOLE		SEAL		Amount sacks or pounds
Diameter	From To	Material	From To	

Material	From	To	SWL
BLK BASALT	923	990	
BLK BASALT + GRN CLAY	990	1000	
RED BASALT	1000	1005	
BLK BASALT	1005	1030	
GRAY BASALT	1030	1088	
BLK BASALT + GRAY CLAY	1088	1123	
GRAY BASALT HARD	1123	1145	
RED CLAY	1145	1161	
BLK BASALT	1161	1223	
BLK BASALT + RED CLAY	1223	1241	
GRAY BASALT	1241	1286	
BLK BASALT + GRAY CLAY	1286	1299	133
BLK BASALT	1299	1376	
BLK BASALT	1376	1492	
GRAY BASALT HARD	1492	1498	
BLK BASALT SOFT	1492	1503	133
BLK BASALT MED	1503	1672	
GRAY BASALT HARD	1672	1679	
BLK BASALT SOFT	1679	1725	133

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

Date started JULY 24 89 Completed SEPT 16 89

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:  
 Perforations Method \_\_\_\_\_  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

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SALEM, OR

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Baller  Air  Flowing Artesian  
Yield gal/min \_\_\_\_\_ Drawdown \_\_\_\_\_ Drill stem at \_\_\_\_\_ Time \_\_\_\_\_  
1 hr.

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

Temperature of water \_\_\_\_\_ Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done?  Yes By whom \_\_\_\_\_  
Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
Depth of strata: \_\_\_\_\_

(bonded) Water Well Constructor Certification:  
I accept responsibility for the construction, 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 well construction standards. This report is true to the best of my knowledge and belief.  
WWC Number 534  
Signed Arnold E. Holman Date OCT 13 89

6-10183