

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

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Water-Use Permit Application Processing

MAY 02 2016

1. Completeness Determination

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

2. Initial Review

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

3. Public Notice

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

4. Proposed Final Order Issued

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

5. Public Notice

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

6. Final Order Issued

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

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

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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 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 Well No. 1 Well Log

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SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

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

Organization Information

| | | | |
|------------------------|-------|--------------|------------------------|
| NAME | | PHONE | FAX |
| City of Athena, Oregon | | 541-566-3862 | 541-566-2488 |
| ADDRESS | | CELL | |
| P.O. Box 686 | | | |
| CITY | STATE | ZIP | E-MAIL* |
| Athena | OR | 97813 | nancy@cityofathena.com |

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 | | 541-786-2489 | |
| 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.)

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.

Michelle Fox
Applicant Signature

Michelle Fox
Print Name and title if applicable

4.28.16
Date

Applicant Signature

Print Name and title if applicable

Date

| | | |
|-------------------------|------------------|------------|
| For Department Use | | |
| App. No. <u>G-18293</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.

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Yes

- There are no encumbrances.
- This land is encumbered by easements, rights of way, roads or other encumbrances.

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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.

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

N/A

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 |
| 5 | Waterman Gulch | 400 feet | The new well is approximately 7 feet below Waterman Gulch |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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 No. 5 will be a new well. Well No. 5 is needed to provide water system reliability, redundancy, and additional capacity to City residents.

SECTION 3: WELL DEVELOPMENT, CONTINUED

2021-7

Total maximum rate requested: 1,000 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) |
| New (5) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | 20" 16" 12" | 0-30 0-900 900-1,600 | N/A N/A 900-1,600 | 0-30 0-900 N/A | N/A N/A N/A | Columbia River Basalt Formations | 1500 to 1600 | 1,000 | 200+ |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | + Annual volume used if well is used 3 hours per day all year. Actual use will likely be less. | | | |
| | <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"/> | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | RECEIVED BY OWRD | | | |

G-18223

- * 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 | 202 acre-feet (annual volume based on the well being used 3 hours per day) |
| | | |
| | | |
| | | |

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

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A. Diversion and Conveyance

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

Pump (give horsepower and type): 175 Hp 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. The proposed means of diversion shall be a submersible well pump placed in the well column. Water will be pumped through a new pump station and into the City's water distribution grid.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)
A direct connection will be made to the City's water distribution grid.

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 Athena 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. Amount of water loss through Athena's distribution system is low when compared to other cities of similar size.

G-18293

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: 500,000-gallon welded steel municipal reservoir Acreage inundated by reservoir: 0.06 acre, which is the footprint of the steel reservoir

Use(s): Municipal

Volume of Reservoir (acre-feet): 1.5 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): 202 (annual volume used is based on the pump operating 3 hours a day).

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

SECTION 8: PROJECT SCHEDULE

Date construction will begin: Summer 2016

Date construction will be completed: Fall 2016

Date beneficial water use will begin: Spring 2017

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SECTION 9: WITHIN A DISTRICT

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 N/A | 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*).

Proposed Well No. 5 (this permit application) is needed to provide water system reliability, redundancy, and additional capacity to City residents and businesses. The City is requesting a new well permit for 1,000 gpm for proposed Well No. 5.

Land Use Information Form



Oregon Water Resources Department
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NOTE TO APPLICANTS

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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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SALEM, OR

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 Athena
First

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Mailing Address: P.O. Box 686

MAY 02 2016

Athena
City

Oregon
State

97813 Daytime Phone: 541-566-3862
Zip

SALEM, OR

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: |
|--------------|-------|---------|-----|-----------|---|-----------------------------------|-----------------------------------|-------------------------------|--------------------|
| See attached | | | | | | <input type="checkbox"/> Diverted | <input type="checkbox"/> Conveyed | <input type="checkbox"/> Used | |
| | | | | | | <input type="checkbox"/> Diverted | <input type="checkbox"/> Conveyed | <input type="checkbox"/> Used | |
| | | | | | | <input type="checkbox"/> Diverted | <input type="checkbox"/> Conveyed | <input type="checkbox"/> Used | |
| | | | | | | <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:

All water diversion and use is for the City of Athena's municipal water system.

B. Description of Proposed Use

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

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

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

Estimated quantity of water needed: 1,000 gpm
 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:

The City requires additional water to reliably meet the City's municipal needs. The City is proposing to drill a new well, new Well No. 5 at Athena Memorial Ball Park. This "Application for a Permit to Use Ground Water" seeks a permit for permit for 1,000 gpm for proposed Well No. 5 for the City of Athena.

A. Land and Location, Cont'd.

| Township | Range | Section | 1/4 1/4 | Tax Lot # | Plan Designation (e.g., Rural Residential/RR-5) | Water to be: | Proposed Land Use: |
|----------|-------|---------|--|-----------|---|---|--------------------|
| 4N | 35E | 18 | SW 1/4 of SW 1/4 | | Municipal | <input checked="" type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input type="checkbox"/> Used | Municipal |
| 4N | 35E | 18 | SW 1/4 of SW 1/4, SE 1/4 of SW 1/4, SW 1/4 of SE 1/4, NW 1/4 of SW 1/4 | | Municipal | <input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | Municipal |
| 4N | 35E | 19 | West 1/2 of section | | Municipal | <input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | Municipal |
| 4N | 35E | 19 | West 1/2 of east 1/2 of section | | Municipal | <input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | Municipal |
| 4N | 34E | 13 | SE 1/4 of SE 1/4 | | Municipal | <input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | Municipal |
| 4N | 34E | 24 | SE 1/4 | | Municipal | <input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | Municipal |
| 4N | 34E | 24 | East 1/2 of NE 1/4 | | Municipal | <input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | Municipal |

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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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For Local Government Use Only

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

Please check the appropriate box below and provide the requested information

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

| Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.) | Cite Most Significant, Applicable Plan Policies & Ordinance Section References | Land-Use Approval: | |
|--|---|--|--|
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |

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

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SALEM, OR

Name: Michelle Fox Title: Asst. City Recorder

Signature: Michelle Fox Phone: (541) 566-3862 Date: 4.28.16

Government Entity: City of Athena

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: _____

Date _____

(For staff use only)



Oregon Water Resources Department
725 Summer Street NE, Suite A
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WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):

- SECTION 1: _____
- SECTION 2: _____
- SECTION 3: _____
- SECTION 4: _____
- SECTION 5: _____
- SECTION 6: _____
- SECTION 7: _____
- SECTION 8: _____
- SECTION 9: _____

Land Use Information Form _____

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 _____

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MAP

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- 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 _____

G-18293



Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

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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 Athena

Name and size of area to be served: Athena, Oregon; approximately 282.4 acres
(in square miles)

Present population of service area: 1,142
(Contact county planning staff, if needed.)

Projected population in 20 years: 1,538 (2034 projection based on the City's planned growth rate in their 2014 Water System Master Plan Update).
(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>October 5, 1981</u> | <u>Basalt, Cannery Well No. 1</u> | <u>0.44 cfs</u> | <u>Municipal</u> |
| <u>April 19, 1977</u> | <u>Basalt, City Well No. 3</u> | <u>1.06 cfs</u> | <u>Municipal</u> |
| <u>September 9, 1941</u> | <u>Basalt, City Wells No. 1 and 2</u> | <u>1.50 cfs</u> | <u>Municipal</u> |
| <u>February 24, 1992</u> | <u>Basalt, City Well No. 4</u> | <u>1.30 cfs</u> | <u>Municipal</u> |

Water Use

Average **yearly** demand: 205 gpm ~~AFY~~ Year: 2013

Per-capita daily consumption (in gallons): 263 gpcd
(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 9/1 **Total peak season** demand: 328 gpm Acre-foot

Peak season per-capita daily consumption: 269 gpcd
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 107,800,000 gallons
(diverted or pumped)

Delivered: 99,200,000 gallons * calculated

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)

61-18293

Request for Water

MAY 02 2016

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

SALEM, OR

The City has been experiencing decreasing well yields in their existing wells. The proposed new Well No. 5 would provide the additional water the City needs, which will ensure a reliable water source for years to come.

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 four basalt wells, of which one is unusable. Water is pumped from Well No. 3 to the adjacent reservoir. The remaining wells discharge to the distribution system, filling the reservoir. The new proposed Well No. 5 will discharge to the distribution system. The most constraining component is water availability. Once the new well is drilled and online, the City should have enough water to meet their needs now and for the future (20 to 30 years).

D. Percentage of water use by type:

| | |
|---|------------------------------|
| Residential: <u>527 (93%)</u> | Commercial: <u>26 (4.5%)</u> |
| Public Authority: <u>11 (Schools, etc.) (1.95%)</u> | Agricultural: <u>0</u> |
| Unaccounted for use: <u>0</u> | Industrial: <u>0</u> |
| Other (specify use): <u>0</u> | |

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.)

Due to the amount of water needed to provide supply reliability to help sustain the City of Athena, conservation efforts would not compensate for the water required. The City's water use is already on the low side compared to other cities in eastern Oregon, so conservation alone will not be able to offset the need for a new well.

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 is not possible to save enough to avoid drilling a new well. Well No. 5 is being proposed to provide water supply reliability, which is not related to conservation.

April 28, 2016

RECEIVED BY OWRD

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

MAY 02 2016

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

SALEM, OR

To Whom It May Concern:

On behalf of the City of Athena, 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 \$450 recording fee and fees for an estimated flow rate of 1,000 gallons per minute
- Figure 1 showing the proposed well location and all other required information
- Form M
- Land Use Information Form
- Well log for nearest municipal well (UMAT 55327)

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 Athena completed a Water System Master Plan Update in 2014 that identified water system needs for a 20-year planning period. The City needs to secure additional supply capacity primarily for water supply redundancy purposes and to help meet their long-term water demands.

The new City of Athena supply well will be cased over its entire depth, 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 of 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. The City intends to drill the new well (Well No. 5) in the spring/summer of 2016.

The proposed depth for this well may encounter basalt aquifers that are deeper than any currently explored in the project's immediate vicinity. We expect they will be hydraulically connected to known aquifers over the well's proposed depth, but fully understand they may not be. We have prepared a well design that will accommodate modifications to address these potential situations over the 900- to 1,600-foot depth interval.

Thank you for your prompt review of this application. 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 for the Application.

Sincerely,

ANDERSON PERRY & ASSOCIATES, INC.

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

BDB/jg
Enclosures

cc: Nancy Parker, City of Athena (w/2 copies)
Greg Silbernagel, Umatilla County Watermaster (w/encl.)
File No. 734-54-32 (w/encl.)

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