

## Assured Water Supply Application C

Applicants Seeking AWS for an Onsite Private Water System

<b>FOR CITY OF BOISE USE ONLY</b>		
<b>City of Boise</b> Planning and Development Services 150 North Capital Blvd. Boise, ID 83702	Date Received:	
Application No.		

This Assured Water Supply Application C is intended for developers, owners, and individuals (Applicants) seeking an AWS Certification for a private onsite water system. This application form also applies to developers, owners, and individuals (Applicants) seeking an Exemption.

Applicants may seek an Exemption if one of the following circumstances applies:

- If a development or redevelopment uses the same amount of water or less than was previously used on the site.
- Individual lot/building permit on lands previously developed or does not meet the applicability standards (see 11-04-010.2).
- For Applicants seeking use of private wells for domestic uses authorized under Idaho Code § 42-111.

If Applicant is seeking an Exemption, Applicant shall complete Section A, Section B, and Section C of this AWS Application C.

**Please contact the City of Boise ((208) 608-7100) for additional support with this application including pre-application support and submittal details.**



Section A – Applicant Information

**SECTION PURPOSE: Section A includes general information about the Applicant and what the Applicant is seeking.**

1. Did the Applicant have a pre-application meeting with the City of Boise? If yes, please provide the date of that meeting.

- Yes
- No

Meeting Date	
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2. Applicant type:

- Individual Applicant
- Developer/Owner
- Other

If other, please explain:

3. Contact person for questions regarding this application:

Contact Person Name:	
Title:	
Email:	
Phone:	
Mailing Address:	
City:	
Zip Code:	
State:	

4. Applicant is seeking:

- AWS Certification for Private Onsite Water System
- Exemption



5. This Application pertains to:

- New Development
- Redevelopment of Existing Development
- Single-Family Residence
- Other

If other, please explain:

By signing this document, I certify that:

	<b>The information contained in this application and all accompanying information is true and correct to the best of my knowledge and belief.</b>
	<b>I intend to be bound to the information and representations herein and will require any successor in interest to also be bound.</b>
	<b>I am the Applicant or am authorized to sign on behalf of the Applicant.</b>

**Printed Name**

**Title**

**Signature**

**Date**

**This concludes Section A – Applicant Information of the Application.**



Section B – Development Information

**SECTION PURPOSE:** Section B includes information about the development and infrastructure locations within the development site.

**NOTE:** The term “Development” in this section hereafter means new development, redevelopment, or single-family residence

1. Name and location of Development:

Name of the Development (if applicable):	
City:	
County:	
Township:	
Range:	
Section(s):	
Government Lot and/or Public Land Survey System (PLSS) Quarter-Quarter description	
County Parcel ID number	

Provide a site location map showing the zoning of the Development. Provide as “**Exhibit B-1.**”

2. Owner of the property or developer (if applicable) (attached additional sheets, if necessary):

Owner:	
Mailing Address:	
Email:	
Phone:	

Developer (if applicable):	
Mailing Address:	
Email:	
Phone:	



3. Provide a general explanation of the Development area how water service will be provided:

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4. Development size and lot information:

How large is the Development (in acres)?	
How many lots are in the Development?	
How many single-family dwelling units are located or will be located within the Development?	
How many multi-family dwelling units are located or will be located within the Development?	

5. Please provide the area distribution (in acres) of the Development:

Zoning District	Area (in acres)
Open Land (A-1, A-2)	
Residential (R-1A, R-1B, R-1C, R-1M, R-2, R-3)	
Mixed Use (MX-1, MX-2, MX-3, MX-4, MX-5, MX-U)	
Industrial (M-1, M-2, T-1, T-2)	
Planned Unit Development (PUD)	
Other	



6. What is the predominant landscaping type planned in the Development?

- Low Water Use Landscaping (Xeriscape)
- Turf
- Not Landscaped; Not Irrigated
- Other, Please Explain

**This concludes Section B – Proposed Development Information of the Application**



Section C – Demand Information

**SECTION PURPOSE:** *Section C includes information about projected water demands and historical water demands.*

1. Provide a completed demand estimate worksheet showing the estimated water demands for the Development. Provide as “Exhibit C-1.”

2. What is the Current Annual Demand of the Development?

*The Current Annual Demand is the total water production for the most recently completed calendar year. This includes both potable and non-potable water sources, as well as non-charge water.*

<b>Current Annual Demand (acre-feet per year)</b>		<b>Year</b>	
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3. What is the Projected Annual Demand of the Development?

*The Projected Annual Demand is the maximum estimated demand associated with the proposed Development that is expected to be added during the 10-year term of the designation for AWS. The Projected Annual Demand should not be included within the Current Annual Demand.*

<b>Projected Annual Demand (acre-feet per year)</b>	
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4. What is the Total Annual Demand of the Development?

*The Total Annual Demand is the sum of the current and projected demand during the term of the designation for AWS and should be based on total demand calculated to be required at the end of the 10-year term of the designation for AWS.*

<b>Total Annual Demand (acre-feet per year)</b>	
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5. Complete the table below to indicate water demand projections for the Development included in this application. Year 1 shall be the year of this application.

Year						Full Buildout
Year No.	1	5	10	25	50	
Projected Population Served						
Total Annual Demand Estimate <i>Represented in acre-feet per year</i>						
Average Daily Demand Estimate <i>Represented in acre-feet per day</i>						
Maximum Daily Demand Estimate <i>Represented in acre-feet per day</i>						
Maximum Wintertime Daily Demand Estimate <i>Represented in acre-feet per day</i>						

6. Is there any historic water use associated with the proposed Development? If 'no', please skip questions 7 and 8.

Yes

No





7. Complete the table below regarding historical water demands. Provide the average day and maximum daily water demands for the past 10 years.

Year	Average Day Demand		Maximum Day Demand	
	Year	Quantity (acre-feet per day)	Date	Quantity (acre-feet per day)
1 Year Ago				
2 Years Ago				
3 Years Ago				
4 Years Ago				
5 Years Ago				
6 Years Ago				
7 Years Ago				
8 Years Ago				
9 Years Ago				
10 Years Ago				

8. Provide data or a chart displaying by month the historical (at least 10 years) average and maximum water demands by month, so seasonal trends can be observed. Provide as "**Exhibit C-2**".

**This concludes Section C – Demand Information of the Application.**



## Section D – Physical and Legal Water Availability

**SECTION PURPOSE: Section D includes requirements and questions to demonstrate with a reasonable likelihood that the water supply is physically and legally available.**

1. Applicant shall demonstrate sufficient physical and legal water availability by providing one of the following:
  - A detailed list or spreadsheet of the Applicant's water right permit(s), or license(s), issued by the Idaho Department of Water Resources (IDWR), or water right decrees issued by a court of competent jurisdiction. The list should include water right number(s), priority date(s), authorized use(s), diversion rate(s), water source(s), place(s) of use, and annual diversion volumes as well as annual consumptive use volumes. Provide as "**Exhibit D-1**".
  - Alternatively, if the Applicant does not have a water right permit, license, or decree at the time of application, the Applicant may submit a hydrologic analysis demonstrating the physical water supply for the demand of the Development based on maximum permitted occupancy at full buildout. The Applicant should also be prepared to provide a copy of their water right permit application or other IDWR approval authorization that will be the legal basis for their water use. Provide as "**Exhibit D-2.**" The hydrologic analysis shall be signed and sealed by a professional geologist or qualified professional engineer licensed in the state of Idaho, and must be clearly written, contain an executive summary and an orderly presentation of data, and utilize currently accepted scientific practices. The hydrologic analysis shall include, at a minimum, the following elements:
    - o Description of the study area corresponding with the Development defined in this application;
    - o Description of all supply sources;
    - o Water demand information, including current annual demand, projected demand, and total annual demand;
    - o Summary of maximum depth to static water levels after a 50-year period;
    - o Aquifer characterization and evaluation, including:
      - **Geologic Background** – Describe geologic units in the Development with formation/unit names, lithologic- descriptions, thickness, and whether unit is water bearing. The description must also identify the depth to bedrock in the development and how groundwater supplies are affected by depths found in the development. Include a map showing bedrock depths below land surface with a 100' contour interval or less.

- **Geologic Structure** – Describe major and minor structural features like faulting and fractured groundwater flow.
- **Geophysical Information** – Present all geophysical logs with data and location points and additional geophysical studies relevant to water supply, like gravity and resistivity.
- **Geologic Maps and Cross-Sections** – Include a geologic map showing detailed surface geology with any structural features, appropriate geologic cross sections, water-bearing units, bedrock units, volcanics, fine grained units, low permeability units, faults, wells listing total depths, water levels, perched groundwater zones, and the location of the Development.
- **Aquifer Description** – Provide detailed description of water-bearing units, thickness, confined/unconfined conditions, lateral extent, lithologic characteristics, range of saturated thickness. The range of variability of the water producing aquifers in the Development.
- **Description of Well(s) to be used** – Demonstrate the wells have sufficient capacity and/or will be constructed in a timely manner to serve the proposed uses for 50-years. Provide the details of existing and future wells, including cadastral location, estimated saturated thickness and depth to bedrock in each well, number of wells needed to meet demand, well construction, specific capacity for wells, and existing well conditions.
- **Aquifer Tests** – Conduct aquifer test for the proposed volume of groundwater withdrawal. Aquifer tests incorporating observation wells are the preferred testing methodology.
- **Groundwater Levels** – Present current measurements for static water levels across the Development. Measurements shall be in tabular format with both elevation above mean sea level and depth to static water levels below land surface.
- **Changes in Water Levels** – Describe any water level decline rates and include hydrographs with trend analysis for both long-term period of record (50-years) and a short-term period of record (10-years). Include an estimate of the decline rate based on the decline rate data.
- **Aquifer Recharge/Discharge** – Describe natural recharge and discharge of the aquifer. Include a map illustrating recharge, underflow, and discharge areas, and incorporate a conceptual water budget for the services area.

2. Does the Applicant have ownership or legal right to the water supply that will be used to serve the Development?  
 Yes  
 No

Please explain.

3. Does or will the Applicant rely upon temporary or assigned water rights to supply the Development?  
 Yes  
 No

Please explain.

4. Based on the Applicant's existing water rights, what is the estimated population that can be served within the Development?

Estimated Population Served	
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5. Will new water rights (permits and/or licenses) be required to supply the Development?  
 Yes  
 No

Please explain.



6. Does the Applicant have proof of raw water storage contracts? If yes, please explain and include as **“Exhibit D-3.”**

- Yes (please explain)
- No

7. Does the Applicant have any long-term purchase, exchange, or option agreements related to water supply? If yes, please explain and include as **“Exhibit D-4.”**

- Yes (please explain)
- No

**This concludes Section D – Physical and Legal Water Availability of the Application.**



Section E – Continuous Water Availability

**SECTION PURPOSE: Section E includes requirements and questions to demonstrate with reasonable likelihood that the Applicant's water supply will be continuously available for 50 years.**

1. Please check all legal sources of water supply used to meet the existing demands in the Applicant's system:

- Groundwater Rights
- Surface Water Rights (Boise River)
- Surface Water Rights (other than Boise River)
- Reservoir Storage Contract Entitlements
- Idaho Water Supply Bank Water Right Rentals
- Irrigation District Entitlements
- Canal Company Shares
- Recycled Water Allocations
- Other (Please explain)

2. If the Applicant checked surface water rights above, does the Applicant measure and monitor streamflow characteristics? If yes, please explain.

- Yes
- No
- Not Applicable

3. If the Applicant checked surface water rights above, does the Applicant lease surface water from or provide water to other entities? If yes, please explain.

- Yes
- No
- Not Applicable



4. If the Applicant checked surface water rights above, does the Applicant have any seasonal withdrawal constraints (e.g. can only withdraw water during certain months or under certain streamflow conditions)? If yes, please explain.
- Yes
  - No
  - Not Applicable

5. If the Applicant checked groundwater rights above, does the Applicant measure levels in groundwater wells?
- Yes
  - No
  - Not Applicable

6. For each well, provide the IDWR well tag number or well ID number and affirm that well log (water level measurements) for the most recent 25-year period of record are attached as "Exhibit E-1". Provide additional sheets as necessary.

IDWR Well Permit No.	Water Level Well Logs Attached	If No, Explain why this data is not provided
	Yes    No	
	Yes    No	
	Yes    No	
	Yes    No	
	Yes    No	

7. Did the Applicant sell water to another water system (public or private) during the past 10 years? If yes, please explain.
- Yes (please explain)
  - No



8. Did the Applicant purchase or lease water from another water system (public or private) during the past 10 years? If yes, please explain.

- Yes (please explain)
- No

9. Does the Applicant have plans, programs, and/or policies regarding drought management, water demand management, water conservation, and integrated water resources management? If yes, include as "**Exhibit E-2**". If Applicant checked 'yes', please provide an explanation on the plans, programs, and/or policies that are established. If Applicant checked 'no', please provide an explanation of why the aforementioned plans, programs, and/or policies are not established.

- Yes
- No

Please explain.

**This concludes Section E – Continuous Water Availability of the Application.**





Section F – Adequate Delivery and Quality

**SECTION PURPOSE: Section F includes requirements and questions to demonstrate with reasonable likelihood that the water provided by the Applicant is of sufficient quality and adequately delivered for the proposed Development.**

1. If Applicant qualifies as a PWS, Applicant shall provide copies of the following documents:
  - Most recently updated facilities plan(s) for water supply, treatment, storage, and distribution systems. Provide as “**Exhibit F-1**”.
  - Annual consumer confidence reports for the previous 10 years. Provide as “**Exhibit F-2**”.
  
2. Does the Applicant operate water treatment facilities?
  - Yes
  - No
  
3. What is the current and projected 10-year water treatment capacity of the Applicant's treatment facilities?

Current Treatment Capacity (acre-feet per year)		Future 10-Year Estimated Treatment Capacity (acre-feet per year)	
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4. Does the Applicant operate storage facilities?
  - Yes
  - No
  
5. What is the current and projected 10-year storage capacity of the Applicant's storage facilities?

Current Storage Capacity (acre-feet per year)		Future 10-Year Estimated Storage Capacity (acre-feet per year)	
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6. Please describe the transmission and distribution system infrastructure, including but not limited to pipe sizes, materials, and conveyance capacity that will be utilized to serve the Development. Applicants shall provide the most recently updated facilities plan. Applicants may submit materials provided for compliance with IDWR and DEQ requirements. Include a map or plan sheets of the infrastructure within the Development area as **“Exhibit F-3”**.

6. Does the Applicant have an infrastructure asset management plan, or similar document such as an asset inventory? If yes, provide as **“Exhibit F-4”**.

- Yes
- No

7. Does the Applicant conduct or utilize hydraulic modeling to help determine infrastructure sizes and anticipated system operating conditions?

- Yes
- No

Please explain.

8. What is the anticipated average and low distribution system operating pressure within the Development?

Average Distribution System Operating Pressure within the Development (psi)	
Low Distribution System Operating Pressure within the Development (psi)	



9. What is the anticipated average water age (in days) within the Development?

Average Water Age within the Development (days)	
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10. Does the Applicant provide adequate fire flow?

- Yes
- No

Please explain.

11. Does your system meet the minimum required fire flow and flow durations for buildings based on local requirements (e.g. International Building Code or International Fire Code)? Please explain in detail.

12. What is the operating pressure during a simulated fire flow condition (psi)? Please explain.

13. In the past 10 years, were there any instances where the Applicant could not meet water demands? If yes, please explain.

- Yes
- No
- Not applicable

**This concludes Section F – Adequate Delivery and Quality of the Application.**



Section G – Compliance with GMD, CGA, GMA, and ARD Standards

**SECTION PURPOSE: Section G includes requirements and questions to demonstrate with reasonable likelihood that the Applicant's proposed water use complies with Groundwater Management District (GMD), Critical Groundwater Area (CGA), Groundwater Management Area (GMA), and Aquifer Recharge District (ARD) standards.**

If the proposed Development project is located in a GMD, CGA, GMA, or ARD, approval of the Development application will be conditioned on meeting applicable state standards and requirements.

1. Is all or part of the Service Area located within a (check all that apply):

- Groundwater Management District (GMD)
- Critical Groundwater Area (CGA)
- Groundwater Management Area (GMA)
- Aquifer Recharge District (ARD)
- Not located in GMD, CGA, GMA, or ARD

Note that the State of Idaho utilizes the following acronyms for GMD, CGA, GMA:

- GMD as Ground Water Management District (GWMD)
- CGA as Critical Ground Water Area (CGWA)
- GMA as Ground Water Management Area (GWMA)

2. If the property is located within a GMD, CGA, GMA, or ARD, the Applicant shall explain in narrative form how the provision of water to the proposed Development site within a GMD, CGA, GMA, or ARD are compliant with all applicable standards and requirements for management of water within the designated area, including but not limited to management plans, policies, mitigation strategies and other water conservation practices. Include attachments as necessary as **"Exhibit G-1"**.

**This concludes Section G – Compliance with GMD, CGA, GMA, and ARD Standards of the Application.**



Section H – AWS Certificate

Application No.	
AWS Certification No.	

**For City of Boise Staff Use Only**

- Approved
  Approved with Conditions Below

Pursuant to Code 11-04-010, notice is hereby given that the subsequent application has been reviewed and an AWS Certificate has been approved given the following conditions:

Special Conditions	
1.	EXAMPLE: The following technical requirements pursuant to Code 11-04-010
2.	EXAMPLE: Approval of "New Water Rights" not secured at this time.
3.	

**Printed Name**

**Title**

**Signature**

**Date**



Section I – Application Checklist

**SECTION PURPOSE:** *Section I includes a checklist (to be completed by the Applicant) to ensure the Applicant completed the appropriate sections and attached the required exhibits.*

General Checklist for Submission		
<input type="checkbox"/>	1.	Did the Applicant complete all sections of the application form?

Required Exhibits			
	B-1	Did the Applicant provide a site location map showing the zoning of the Development area as Exhibit B-1?	Required
	C-1	Did the Applicant provide the demand estimate worksheet as Exhibit C-1?	Required
	C-2	Did the Applicant provide monthly water demands for the previous 10 years as Exhibit C-2?	Required
	D-1	Did the Applicant provide either a copy of its water right permit or license issued by the Idaho Department of Water Resources, or a decreed water right issued by a court of competent jurisdiction, or a hydrological analysis as Exhibit D-1?	Required
	D-2	Did the Applicant provide a hydrological analysis as Exhibit D-2?	Required, as applicable
	D-3	Does the Applicant have proof of water storage contracts? If yes, did the Applicant explain and provide as Exhibit D-3?	Required, as applicable
	D-4	Does the Applicant have any long-term purchase, exchange, or option agreements related to water supply? If yes, did the Applicant explain and provide as Exhibit D-4?	Required, as applicable
	E-1	Did the Applicant include groundwater well information, including registration number, water level measurements, and dates as Exhibit E-1?	Required, as applicable
	E-2	Did the Applicant include plans, programs, and/or policies in regards to drought management, water demand management, water conservation, and integrated water resources management? Provide as Exhibit E-2.	Required, as applicable

Required Exhibits			
	F-1	Did the Applicant include copies of its most recently facilities plan(s) as Exhibit F-1?	Required, as applicable
	F-2	Did the Applicant include copies of its annual consumer confidence reports for the previous 10 years as Exhibit F-2?	Required, as applicable
	F-3	Did the Applicant include a map or plan sheets of the infrastructure within the Development area as Exhibit F-3?	Required
	F-4	Did the Applicant include asset management plans and/or asset inventory information as Exhibit F-4?	Required, as applicable
	G-1	If the property is located within Groundwater Management District (GMD), Critical Groundwater Area (CGA), Groundwater Management Area (GMA), and Aquifer Recharge District (ARD), the Applicant shall explain how applicable standards and requirements are met. Did the Applicant include attachments as necessary as Exhibit G-1?	Required, as applicable

**This concludes Section I – Application Checklist of the Application.**