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 Douglas P. Schwin, PE				PHONE (HM)
PHONE (WK) (541)524-2038	CELL (541)520-8964			FAX (541)524-2029
ADDRESS P.O. Box 650				
CITY Baker City	STATE OR	ZIP 97814	E-MAIL* dschwin@bakercity.com	

Organization Information

NAME City of Baker City			PHONE (541)524-2031	FAX (541)524-2029
ADDRESS P.O. Box 650				CELL
CITY Baker City	STATE OR	ZIP 97814	E-MAIL* mowen@bakercity.com	

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

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

Note: Attach multiple copies as needed

* By providing an e-mail address, consent is given to receive all correspondence from the department electronically. (paper copies of the 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.

Applicant Signature	Print Name *and title if applicable*	Date
[signature]	Douglas P. Schwin, city engineer	12/2/2013

For Department Use

App. No. G-17741 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

Note: An easement and written authorization for the existing well site are currently being pursued.

- ☐ 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)*.

Intermountain Land, LLC
1425 Campbell Street
Baker City, OR 97814

Note: This is the owner of the property that contains the existing well and is the only property that must be crossed to reach public right-of-way.

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. See attached legal for property containing the existing well. Per OWRD staff, a legal of the place of use (municipal water service boundary) is not required.

SECTION 3: WELL DEVELOPMENT

		IF LESS THAN 1 MILE:	
WELL NO.	NAME OF NEAREST SURFACE WATER	DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
POA #1	Kolb reservoir	0.75 mile	-125'
	Powder River	1.3 mile	+15'
POA #2	Kolb reservoir	0.7 mile	-155'
	Powder River	1.25 mile	-15'

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)*.

See attached sheet on next page

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Section 3: Well Development

The existing "Paul Hill Well" (POA #1) will be improved to comply with current well standards for a public drinking water supply. The necessary improvements that will be made to the well include sealing the well, constructing an approved concrete pad and wellhouse, installing a chlorinator, flow meter, sampling port, and water level gauge, and upgrading the pump size to provide the necessary flow rate. In addition, the City is in the process of securing easements for the well and pipeline where these facilities are located on private property.

The proposed well (POA #2) will be drilled in the same aquifer as the existing "Paul Hill Well". The well will be constructed to meet all current well standards for a public drinking water supply well. Currently, the plan is to locate the well within the Court Street right-of-way and obtain easements on adjacent properties as needed to provide the required minimum buffer. However, the final well location may change depending on where water is ultimately located and where the necessary property rights can be obtained.

SECTION 3: WELL DEVELOPMENT, CONTINUED

Source (aquifer), if known: Bedrock

Total maximum rate requested: 1000 gpm (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

Complete the table below. If this is an existing well, the following 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.

										PROPOSED USE			
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)	SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
POA#1	☐	☒	Well log # Bake 1136	☐	12"	0-575	Unknown	Not Sealed (0-400' proposed)	29' (per well log)	Bedrock	575	1000	537.7
POA#2	☒	☐	N/A	☐	12"	0-600	400-600	0-400	N/A	Bedrock	600	1000	537.7
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									
	☐	☐		☐									

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* 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	537.7 AF (total combined from one or both wells)

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: _____ Acres Supplemental: _____ Acres

List the Permit or Certificate number of the underlying primary water right(s): _____

_____

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

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

_____

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): 100 hp turbine

☐ Other means (describe): _____

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

See attached description on following page

B. Application Method
What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)

Municipal water system

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.

See attached description on following page

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Section 5-A: Diversion and Conveyance

The existing well (POA #1) will be improved as described in Section 3 to meet current well standards for public water supply, and then connected to the City's municipal distribution system by the construction of approximately 1,600 feet of new 8" ductile iron water main. The new well (POA #2) will be sited and constructed to meet existing standards for public water supply wells. Once drilled, the new well will be connected to the 8" ductile iron water main which is to be constructed as described above as part of the improvements for the existing well (POA #1). The new 8" water main will connect to the City's distribution system where it currently terminates at the intersection of 19th and Court.

Before connecting these wells to the distribution system, each well will be equipped with a chlorinator to ensure that required chlorine residual levels (for the surface water portion of the supply) are maintained within the system.

The well pumps will be operated manually by the water system operator who is responsible for monitoring system demand and reservoir water levels. In the event of a significant drop in system demand while the well is in use, any additional flow from the well(s) that is not utilized within the distribution system will backfeed into the City's 3.0 MG reservoir. If the pumps remain on and demand remains low, the 3.0 MG reservoir would eventually over-fill and the excess water would drain to waste via the reservoir's overflow pipe. In that event, a high level alarm would sound alerting the operator to turn off the pump at the supply well.

Section 5-C: Conservation

Baker City is in need of additional groundwater sources to supplement the primary surface water supply (the Baker City Watershed) which has served the community for a century. Currently, the City receives its water from a number of sources within the watershed including several creeks and springs and one surface water reservoir. The City also has an ASR well that is recharged using surface water from the watershed. If the stored ASR water is depleted, the City has rights to withdraw groundwater from the ASR well, but the groundwater contains iron manganese and is of poor quality for municipal use. The City currently has no other groundwater sources connected to the municipal system.

The City desires to develop additional groundwater sources which could be used to supplement or temporarily replace the surface water supply in the event of an emergency or catastrophic event restricting or temporarily eliminating the surface water supply (such as drought, wildfire, or waterborne disease). These new groundwater sources would also supplement the primary surface water supply to serve future growth, provide additional capacity to meet high peak day demands, and supplement the surface water supply when the available capacity is reduced.

Although the volumes requested in this application would not meet the City's total water needs if the surface water source were eliminated, the current request is an important first step towards creating a backup supply as insurance against potentially catastrophic events as well as providing additional supply to meet the needs of future growth within the community.

The City would monitor the use of the groundwater source to prevent waste in the same way that the existing surface water supply is monitored and utilized. A full-time water system operator would monitor system demands and reservoir levels and only utilize the wells when such use is justified. Totalizing flow meters will be installed and monitored at each well to ensure that permitted volumes are not exceeded. The well and supply line will be developed in a non-sensitive area, and the groundwater source will be a deep aquifer that is not directly influenced by surface water to prevent adverse impacts to aquatic life, riparian habitat, or public uses of nearby surface waters.

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: _____ Acreage inundated by reservoir: _____

Use(s): _____

Volume of Reservoir (acre-feet): _____ Dam height (feet, if excavated, write "zero"): _____

***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): _____

USE OF STORED GROUND WATER	PERIOD OF USE

SECTION 8: PROJECT SCHEDULE

Date construction will begin: April 2014 (Improvements to existing well - POA #1)

Date construction will be completed: Oct. 2016 (completion of new well - POA #2)

Date beneficial water use will begin: July 2017 (use of water from both wells - use from POA #1 will occur earlier)

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	Address	
City	State	Zip

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SECTION 10: REMARKS

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

This request is for up to 1000 gpm from POA #1 and up to 1000 gpm from POA #2 with no more than 1000 gpm being used at any one time (ie. the two wells will not operate simultaneously). In addition, the request is for up to 537.7 acre-feet annually from each POA, but no more than 537.7 acre-feet annually in aggregate between either or both wells.

Prior irrigation rights exist on POA #1, and plans are to continue to use this well for irrigation when it is not being used for municipal supply. However, these two uses will not occur simultaneously. The agreement being drafted between the City and the well owner will specify that the well cannot be used for irrigation when it is being utilized by the city for municipal purposes.

B07 34 0338

EXHIBIT "A"

The West half of the Southeast quarter of Section 18, Township 9 South, Range 40 East of the Willamette Meridian, in the County of Baker and State of Oregon.

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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 Baker City

Name and size of area to be served: Baker City Municipal Water System (7.65 sq. mi.)
(in square miles)

Present population of service area: 9,890
(Contact county planning staff, if needed.)

Projected population in 20 years: 11,949 (per 2013 Baker City Water Management and Cons. 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:
(see attached list)			

Water Use

Average **yearly** demand: 1,973 AFY Year: 2007-2011

Per-capita daily consumption (in gallons): 178 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): 6/15 to 9/15 **Total peak season** demand: 1,198 Acre-feet

Peak season per-capita daily consumption: 429 gpcd
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 695,430,000 gal (in 2011)
(diverted or pumped)

Delivered: 634,291,000 gal (in 2011)

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Is your system fully metered? (•) Yes ( ) No

Describe your rate structure: Flat rate by meter size plus a block rate by unit for excess usage
(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 in need of establishing new groundwater sources to supplement the existing surface water source. This will provide a backup source in the event of a catastrophic event which limits the surface water supply (i.e. drought, fire, waterborne disease outbreak, etc), and will also supplement the existing supply to provide increased capacity for future growth.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) 28 years (thru 2041) under normal conditions based on growth estimates

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

Currently, water is collected from a number of sources within the Baker City watershed. This water is piped to the City's distribution system and also stored in the ASR well for use during the peak season. Recently, the most constraining component of the system has been its susceptibility to waterborne disease, as evidenced by the City's recent cryptosporidium outbreak. This reduces watershed supply (as only known clean sources can be used) and restricts injection to the ASR well. This request will allow the City to develop backup groundwater sources that will supplement the primary surface water supply.

D. Percentage of water use by type:

Residential: 57%
Commercial: 27%*
Public Authority: 7%
Agricultural: n/a
Unaccounted for use: 9%
Industrial: *Included in Commercial
Other (specify use): n/a

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 estimated cost to implement the proposed request (upgrade and connect to the existing well and construct a new well) is approximately $350,000. Implementing other water efficiency measures is not a viable alternative to the current proposal because the need is to establish an alternative source to backup the existing surface water supply.

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

This section is not applicable. The present request to develop a backup groundwater supply does not include a water use efficiency component.

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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 Baker City (First) _____ (Last)

Mailing Address: P.O. Box 650

Baker City (City) OR (State) 97814 (Zip) Daytime Phone: (541) 524-2038

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:
09S	40E	18		700	EFU	☒ Diverted	☒ Conveyed	☐ Used	Agric.
Baker City UGB					Multiple	☐ Diverted	☐ Conveyed	☒ Used	
						☐ Diverted	☐ Conveyed	☐ Used	
						☐ Diverted	☐ Conveyed	☐ Used	

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

Diverted and conveyed in Baker County.
Conveyed and used in Baker City

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: 1100 ☐ 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:

Permit to connect to an existing well (the Paul Hill Well) and construct a new well for municipal use.

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): BCZSO Sec 301.01 Sec 108 b

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

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued

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

Please observe all setbacks- At the time construction is proposed, Please contact the Baker City/County Planning Dept. for permit/Land Use information requirements.

Name: Laura J. Hoopes Title: Planner

Signature: _____ Phone: 541-523-8219 Date: 11-4-13

Government Entity: Baker City-County Planning

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

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City of Baker City, Oregon
Water Right Information[1]

Water Source	Application Number	Permit Number	Certificate Number	Maximum Use Permitted (cfs/gpm)	Priority Date	Type of Use	Maximum Instantaneous (cfs)	Maximum Instantaneous (gpm)	Maximum Annual Quantity (MG)	Authorization Date for Completion
Big Mill Creek			80496	5.0/2,230	12/31/1862	Municipal	2.7	1,206		
Little Mill Creek			80496	5.0/2,230	12/31/1862	Municipal	2.5	1,130		
Mill Creek			80496	6.25/2,788	12/31/1868	Municipal	2.3	1,050		
Little Marble Creek			80496	1.25/558	12/31/1862	Municipal	1	445		
Marble Creek (Marble Springs)			80496	5.0/2,230	12/31/1868	Municipal	6.7	3,000	487.3	
Big Marble Creek			80496	5.0/2,230	12/31/1862	Municipal				
Big Salmon Creek (Salmon Creek)			80496	5.0/2,230	12/31/1862	Municipal	2.9	1,300	146.5	
Little Salmon Creek			80496	1.25/558	12/31/1862	Municipal				
Elk Creek			80496	3.75/1,673	12/31/1862	Municipal	4.8	2,150	268.3	
Goodrich Creek			80496	5.0/2,230	12/31/1862	Municipal				
Goodrich Creek			80496	6.25/2,788	12/31/1868	Municipal	4.3	1,920		
Goodrich Creek Reservoir			80496	0.0/0	12/31/1901	Municipal				
Goodrich Creek Reservoir	R-34873	R-2615	39253	233.2 acre-ft (storage)	5/4/1961	Municipal				11/15/1961
Goodrich Reservoir		S-27371	39254	10.8/4,817	5/4/1961	Municipal				11/15/1961
Camper Springs			80496	0.625/279	12/31/1862	Municipal				
Herman Springs*[2]			80496	0.5/223	12/31/1862	Municipal				
Henry Springs			80496	0.625/279	12/31/1862	Municipal				
Finley Springs			80496	0.625/279	12/31/1862	Municipal				
Little Salmon Springs			80496	0.5/223	12/31/1862	Municipal				
Hawk Springs*			80496	0.5/223	12/31/1862	Municipal				
Coyote Springs*			80496	0.5/223	12/31/1862	Municipal				
Slum Town Springs*			80496	0.625/279	12/31/1862	Municipal				
Rock Springs*			80496	0.5/223	12/31/1862	Municipal				
North Prong of Washington Gulch*			80496	0.5/223	12/31/1862	Municipal				
Middle Prong of Washington Gulch*			80496	0.5/223	12/31/1862	Municipal				
South Prong of Washington Gulch*			80496	0.5/223	12/31/1862	Municipal				
Conn Springs*			80496	0.625/279	12/31/1862	Municipal				
Byam Springs			80496	0.25/112	12/31/1862	Municipal				
Gee Creek*			80496	1.25/558	12/31/1868	Municipal				
Sam O Spring*	55451	S-41868	51234	1.34/598	3/9/1977	Municipal Except for Potable Use				10/1/1979
Powder River*			3987	0.625/279	11/05/1892	Irrigation				
Golf Course Well		G-7830	54983	0.530/236	10/31/1977	Irrigation				11/24/1977
Well	G-8381	G-7635	51748	5.30/2,364	8/16/1977	Municipal				10/1/1979
ASR Well	AL9	AL1	N/A	4.48/2,000 (allowed recovery)		Municipal	3.7	1,650	14	
Reservoir Hydro Plant		PC(535)				Municipal				

Notes:
1. The only watershed sources monitored to date are reported above.
2. The watershed sources that have an asterisk (*) next to them are currently not connected to the transmission line.

Abbreviations:
acre-ft = acre feet
cfs = cubic feet per second
gpm = gallons per minute
MG = million gallons

anderson perry & associates, inc.

CITY OF
BAKER CITY, OREGON
WATER MANAGEMENT AND CONSERVATION PLAN UPDATE

WATER RIGHT INFORMATION

TABLE
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G-17741