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Permit No: 22-7790

Page 1

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-7790

Exam Date: 8/6/2001

1. Current Owner: CITY OF DRIGGS
PO BOX 48
DRIGGS ID 83422
(208)354-2362

2. Accompanied by: Allen Wilder

Phone No: (208)354-2362

Address: same as owner

Relationship to Permit Holder: Public Works Director

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: yes
2. Other water rights with the same point of diversion: no

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4NW1/4

Sec. 25, Twp 05N, Rge 45E, B.M.

TETON County

Method of Determination: GPS point provided during beneficial use field exam

2. Location of PLACE OF USE:

Place of Use

MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	45E	2	X	X															
			L 1	L 2															
05N	45E	23									X		X	X	X	X	X	X	
05N	45E	24						X			X	X	X	X	X	X	X	X	
05N	45E	25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
05N	45E	26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
05N	45E	35	X	X	X	X	X	X	X	X					X	X	X	X	
05N	45E	36		X			X	X	X	X			X						

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MAY 07 2007

05N 46E 19			X	X			X	X		X	X	X	X		X	X	X	X	
05N 46E 30		X				X	X	X		X									

Method of Determination: Digital boundary associated with other water rights owned by the city of Driggs was used to determine POU

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☐ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
699831		75			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:
System capacity is 1100 GPM = 2.45 cfs
Limited to 2.25 cfs by permit

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F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTSHave conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS**

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	1/01 to 12/31	2.250 CFS	
<u>Totals:</u>		2.250 CFS	

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other**I. AUTHENTICATION**

Field Examiner's Name Steve Mueller Date 8-6-2001
Reviewer Nate Arave *Nate Arave* Date 4-30-2007 *4-30-07*

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 22-7790

1. Owner: City of Driggs Phone No. 354-2362
Current Address: P.O. Box 48, Driggs, ID 83422
2. Accompanied by: Allen Wilder EXAM DATE: 8-6-01
Address: _____ Phone No. Cell 390-1709
Relationship to Permit Holder: Public Works Director
3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Yes City has other wells and springs
2. Other water rights with the same point of diversion: No

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
									<u>R080620 B</u>

2. Place(s) of Use:

Indicate Method of Determination USGS

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

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MAY 01 2007

3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

Scale: 1" = _____

_____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

_____ Aerial Photo Attached (required for irrigation of 10+ acres)

_____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
HS Well	?	75	?		

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

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E. NARRATIVE/REMARKS/COMMENTS

Wells are on Telemetrey pressure or tank elevation starts & stops pumps

- 1 Well tank well first to come on if springs not sufficient
- 2 HS well second
- 3 Lions Park Well third
- 4 Dalley Well fourth

Wells kick on when have about 75 pounds of head.

City is having a water system study done currently.
Flows are difficult to obtain. There are no flow meters, just totalizer meters. Wells won't run unless fire hydrants are opened.

Last time this was done it created a water hammer in town. Allen said he was reluctant to do that again.

Wells are backup to the city's springs. Springs run about 500 gpm.

GPS site ID # E0007616 High School Well

The study the system is having done is due for completion in December 2007. This study should identify the flows of each of the city's four wells.

Have conditions of permit approval been met? ☐ yes ☐ no

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F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ___ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Steve Mueller Date 8-6-01

Reviewer _____ Date _____

SEAL

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1127 100435 461 ft 0644-00



Comment Report

22-7790

1. agolart 2/14/2007 Field Report Narrative

Comment: Driggs high school well. Completed depth 216 feet. Water level 83 feet with 68 foot of drawdown. Wells are backup to city springs. Wells kick on when they have about 75 pounds of head.

2. narave 4/30/2007 POU

Comment: Updated Shape

3. narave 4/30/2007 POU

Comment: Updated PLS

4. narave 4/30/2007 POU overlap

Comment: The overlapping POUs are

22 2132

22 11825

22 626

22 7529

22 7530

22 7698

22 7814

5. VAULT 5/27/1998 Lapse Notice Sent

Comment: Lapse Notice Sent

6. VAULT 6/11/1998 Proof of Beneficial Use Rcvd

Comment: Proof of Beneficial Use Rcvd

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<u>Basin</u>	<u>Sequence</u>	<u>Suffix</u>	<u>Basis</u>	<u>Status</u>	<u>Right ID</u>	<u>Priority Date</u>	<u>Rate(cfs)</u>	<u>Volume(af)</u>	<u>Source</u>	<u>Water Use(s)</u>	<u>Owner(s)</u>
22	2132		License	Active	241836	4/13/1949	1.11		GROUND WATER	MUNICIPAL	CITY OF DRIGGS (Current)
22	11825		Beneficial	Active	242037	8/10/1985	0.02		GROUND WATER	COMMERCIAL	CITY OF DRIGGS (Current)
22	626		Decreed	Active	15399	1/22/1916	3.2		TETON CREEK	DOMESTIC, IRRIGATION	CITY OF DRIGGS (Current)
22	7529		License	Active	102177	7/30/1987	0.77		GROUND WATER	MUNICIPAL	CITY OF DRIGGS (Current)
22	7530		License	Active	58931	8/19/1987	0.02	7.3	GROUND WATER	WATER QUALITY IMPROVEMENT	CITY OF DRIGGS (Current)
22	7698		License	DRAFT Active	610566	3/14/1991	1.24		GROUND WATER	MUNICIPAL	CITY OF DRIGGS (Current)
22	7814			Active	547238	1/29/2007	2		GROUND WATER	MUNICIPAL	CITY OF DRIGGS (Current)

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11.0 PUBLIC SERVICES, FACILITIES and UTILITIES

An analysis showing general plans for sewage, drainage, power plant sites, utility transmission corridors, water supply, fire stations and fire fighting equipment, health and welfare facilities, libraries, solid waste disposal sites, schools, public safety facilities and related services. The plan may also show locations of civic centers and public buildings.

11.1 CURRENT CONDITIONS

Water Sources

Table 11.1-a contains data on water right (the quantity the city is *allowed* to draw) and water capacity (the quantity the city is *able* to draw, given installed technology and characteristics of the source) for all of the current city water sources.

The Wyoming Spring is the city's main source of water. The original spring water right of 449 gallons per minute (gpm) was established in 1912 and expanded to 1122 gpm in 1999. The capacity of the spring facility was increased in 2003 from about 350 gpm to 122 gpm, the maximum allowed under the rights held. The High School Well, drilled in 1998, is the second largest water source. The Lions Park Well has the largest associated water right, however the capacity of the well is much lower and pump upgrades may only yield limited increases. The Valley Centre Well is the most recent addition and was dedicated to the City through a development agreement with the developer of Valley Centre Subdivision.

Table 11.1-a: Water Sources – Rights and Capacity

Water Source	Water Capacity (gpm)	Water Rights (gpm)
Wyoming Spring	1122	1122
High School Well	1100	1010
Valley Center Well	800	898
Lions Park Well	560	2020
Tank Well	430	345
Dalley Well	30	493
TOTALS	4042	5888

= 2.25 cfs

All water sources currently meet the required quality standards, however nitrate levels have been rising at the Lions Well over the past few years. Nitrate contamination is typically from fertilizer runoff, leachate from septic tanks or erosion of natural deposits.

Water Storage and Distribution

The City of Driggs added a one million gallon storage tank just below the spring source in Wyoming in 2005. This new tank combines with an existing tank in Targhee Ranch Subdivision to provide a storage capacity of 1,300,000 gallons. While new development has installed larger (8-12") lines to meet required fire flows, the older areas of town contain smaller lines (2-4").

Results of
Comprehensive
Study