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Page 1 DEPARTMENT OF
WATER RESOURCES

Permit No: 22-7370

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-7370

Exam Date: 9/17/2004
office Review

1. Current Owner: STATE OF IDAHO
IDAHO WATER RESOURCE BOARD
STATEHOUSE MAIL
PO BOX 83720
BOISE ID 83720-0098
(208)327-7900

2. Accompanied by: NONE
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE TRIBUTARY
BITCH CREEK TETON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

BITCH CREEK	NW1/4NE1/4
TETON County	(Ending of Reach)
BITCH CREEK	NW1/4NW1/4
TETON County	(Beginning of Reach)

Sec. 20, Twp 07N, Rge 44E, B.M.

Sec. 17, Twp 07N, Rge 45E, B.M.

Method of Determination:

USGS MAP

2.

Did Arc View on Beginning and ending points

Method of Determination:

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 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 Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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

Measured Method:

_____ Additional Computation Sheets Attached

Minimum flow right
 supported by Fish and Game measurements.

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:

Minimum flow

G. NARRATIVE/REMARKS/COMMENTS

Water Resource Board minimum flow right.
Idaho Fish and Game submitted data in 1999 to support this right, along with data collected during prior years.
See file. Bill Graham is listed as the contact person on the Proof of Ben use.

Have 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>
MINIMUM STREAM FLOW	1/01 to 12/31	28.000 CFS	
<u>Totals:</u>		28.000 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

DAVE CARLSON

Date

9/17/2004

Reviewer

Date

**BITCH CREEK
MINIMUM STREAMFLOW
Fact Sheet**

Water Right No.: 22-7370

Source: Bitch Creek tributary to Teton River

Applicant: Idaho Water Resource Board

Requesting Agency: Idaho Department of Fish & Game

Date Application Filed: June 19, 1981

Rate of Flow: 28 cubic feet per second

Location of Reach: NW1/4NE1/4 Sec. 20, T7N, R44E, B.M., Teton County, upstream approximately 6 miles to State Highway 32 in NW1/4NW1/4 Sec. 17, T7N, R45E, Teton County.

Purpose: To maintain spawning and rearing of game fish.

Hearing: November 21, 1985 at Driggs, Idaho

Attended by 40 people

Comments were mixed. No strong objection to a minimum streamflow on Bitch Creek was voiced. However, the following objections were raised regarding a minimum flow on the Teton River at the hearing which bear somewhat on this filing.

(1) The minimum streamflow would conflict with traditional water uses.

(2) The minimum streamflow would prevent future development.

Permit: Order Adopting Proposed Decision dated December 23, 1988

Special Conditions: Retained jurisdiction for change. Proposed amendment must be submitted initially to the Board.

Subject to Bureau of Reclamation permit which still authorizes construction of the Teton Dam.

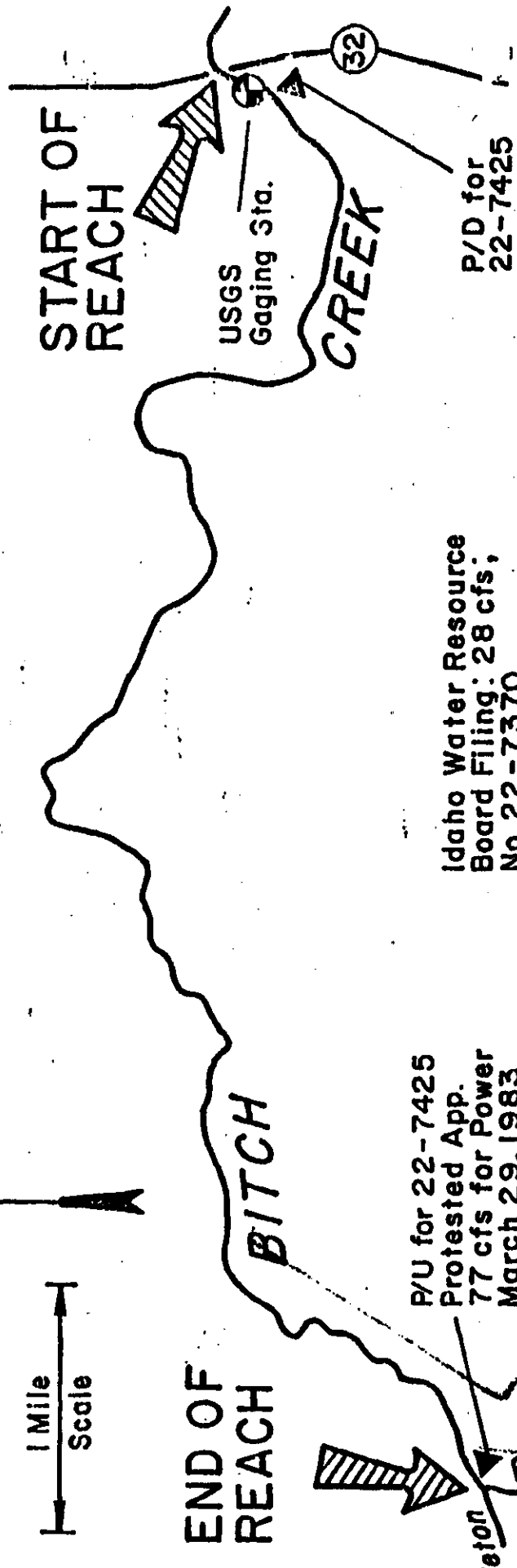
RECORDED

MAY 16 1989

Water Rights on Bitch Creek



1 Mile
Scale



Idaho Water Resource
Board Filing: 28 cfs;
No. 22-7370
June 19, 1981.

P/U for 22-7425
Protested App.
77 cfs for Power
March 29, 1983

MAY 19 1989

IDWR STAFF EXHIBIT

September 7, 1984

A flow duration analysis for the same period as that used for the plots in Figure 1 reveals that the proposed instream flow of 140 cfs is available about 91 percent of the time on an annual basis. During the months of July and August, the percent of time the 140 cfs is available drops to 66 and 60 percent, respectively.

Bitch Creek

This tributary of the Teton River drains an 80 square mile area in Wyoming and Idaho on the west side of the Teton Range. The USGS gaging station 13054300, located just downstream from the Highway 32 crossing, was in operation during water years 1975, 1976 and 1977. Since only three years of data are available, no summary hydrograph analysis was performed. The measured mean monthly flows for the period of record are listed below:

	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>
1975	44	35	33	30	28	27	32	182	908	665	114	54
1976	51	43	41	37	37	33	64	788	659	336	117	66
1977	50	36	31	29	27	27	84	226	264	47	38	36

Peak flows resulting from snowmelt occur during May and June, with July and August discharges gradually recessing to baseflow conditions. Some small diversions are made above the instream flow reach, but the effect on streamflow is not pronounced. Low flows during the period of record occurred in the months of November and March. The proposed instream flow of 28 cfs closely approximates the late fall and winter baseflow of the stream, with the minimum discharge of record being 24 cfs. ✓

Teton River

The instream flow reach described in the application is from the confluence of Bitch Creek upstream 12 miles to the Highway 33 bridge. Badger Creek, a major tributary, joins the Teton a short distance upstream from the Bitch Creek confluence. Streamflow data for the reach are available at several different sites for varying periods. A gage near the lower end of the reach was operated during water years 1975-77 (Teton R. below Badger Cr. near Lamont, 13054200) and another gage (Teton R. near Tetonia, 13054000) at the upstream end was operated during the period 1941-57. The only gaging station presently in operation on the upper Teton River is the gage above South Leigh Creek near Driggs (13052200), some seven miles upstream from the highway bridge.

A summary hydrograph analysis was performed on the Teton R. near Tetonia streamflow record. This record does not reflect

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