

Complete the following map by showing land and point of diversion as proposed by this amendment.

Show 1/4 1/4, section, township, range and ditches. (the smallest subdivision represents 40 acres)

Scale: 2 inches equal 1 mile

I hereby request approval of this change subject to the fact that no one will be injured by the change, and that the change will be made at my own risk.

Signed this 6th day of December, 19 94. Cynthia A. Robertson, Fishery Staff Biologist, IDEC
Permit Holder

ACTION OF THE DEPARTMENT OF WATER RESOURCES

Preliminary check by _____ Publication prepared by d Date 12/28/94

Published in County Free Press 1/4 & 11/95 Publication dates 1/4 & 11/95

I, L. GLEN SAXTON, of the Department of Water Resources hereby

APPROVE THE ABOVE REFERENCED APPLICATION FOR AMENDMENT PROVIDED THE CONDITIONS AS SET FORTH IN PERMIT NO. 82-07186 ARE MET.

Witness my hand this

8th

day of

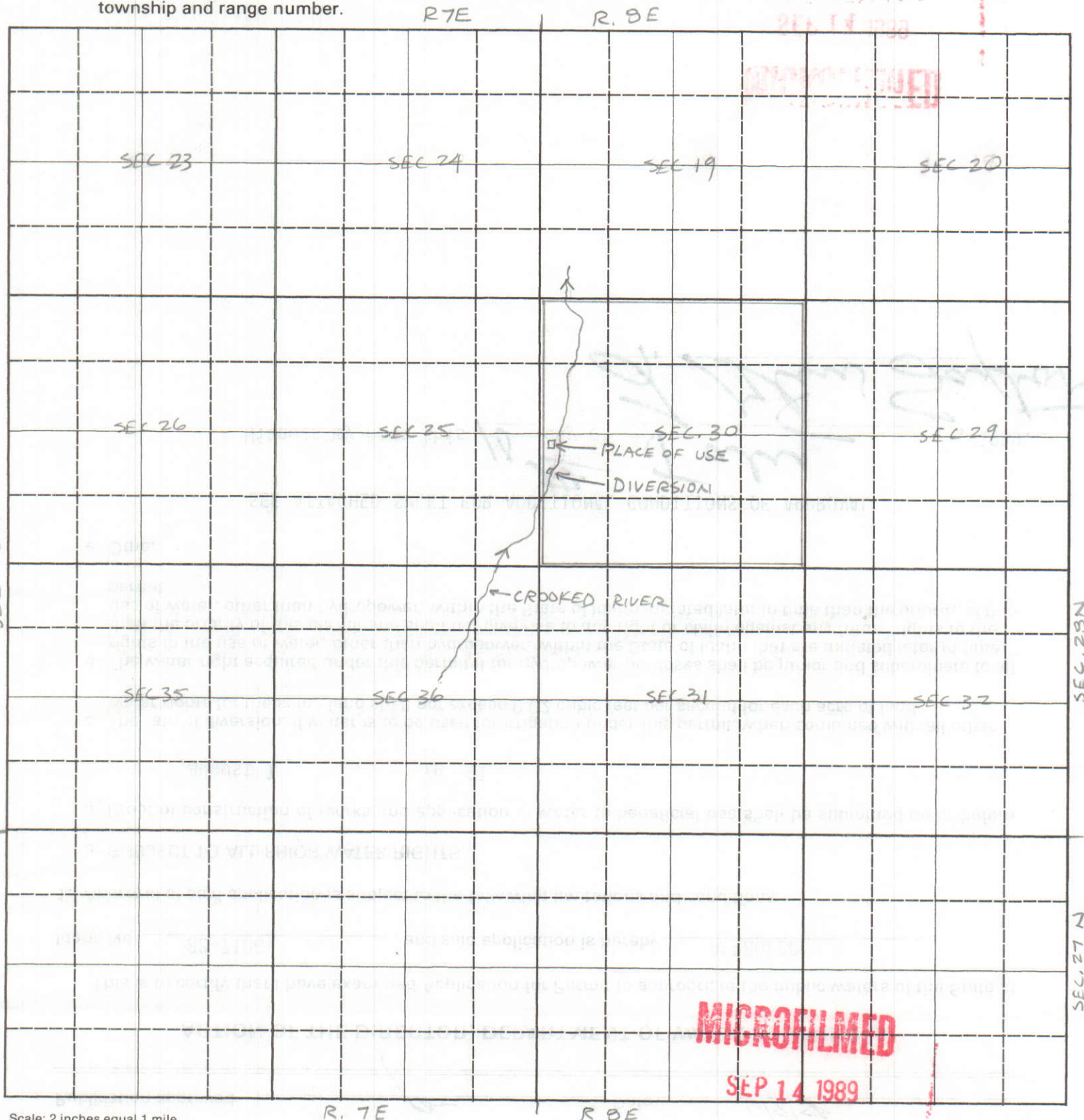
June

19

95

L. Glen Saxton
SIGNATURE

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

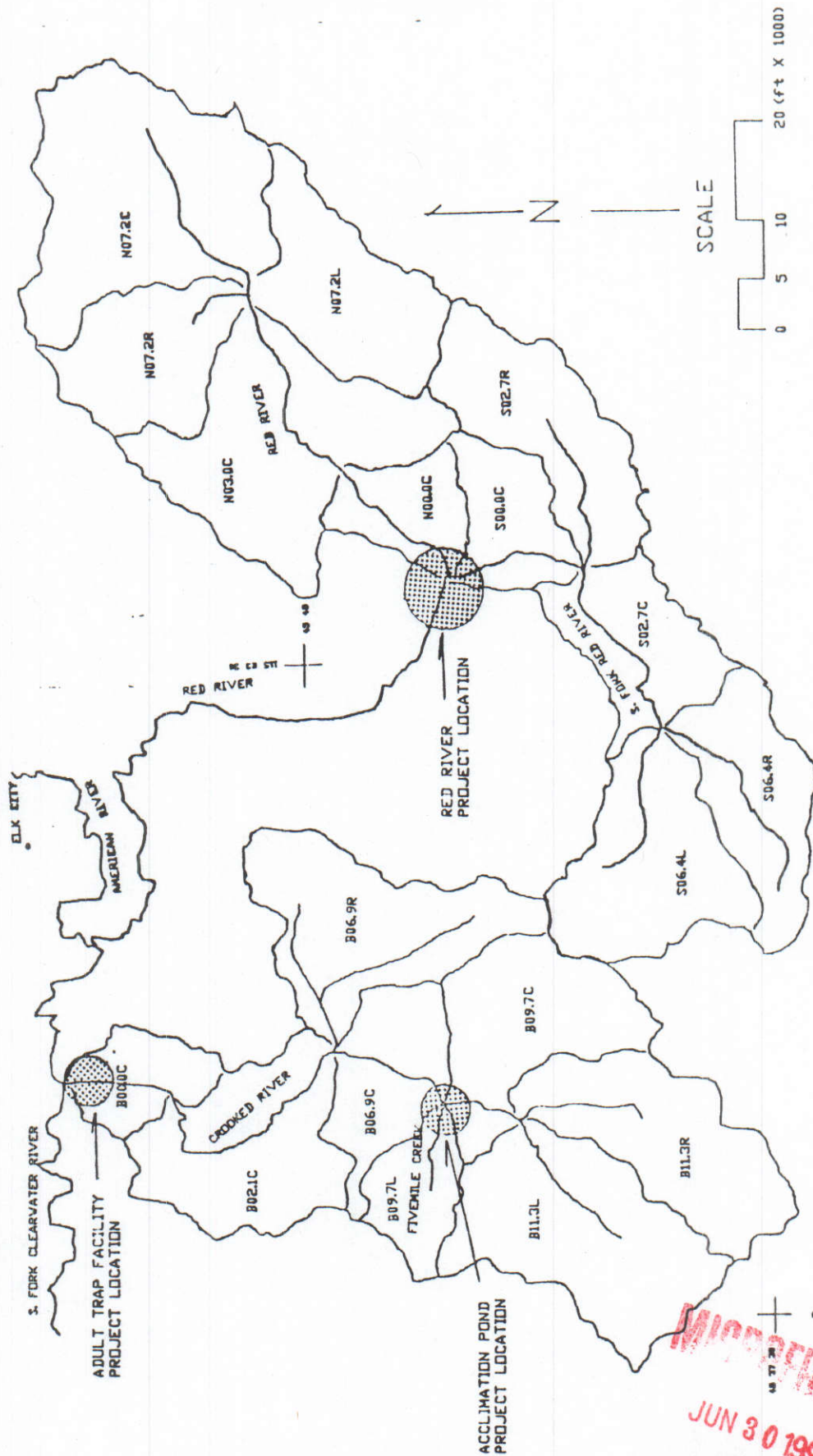


Scale: 2 inches equal 1 mile.

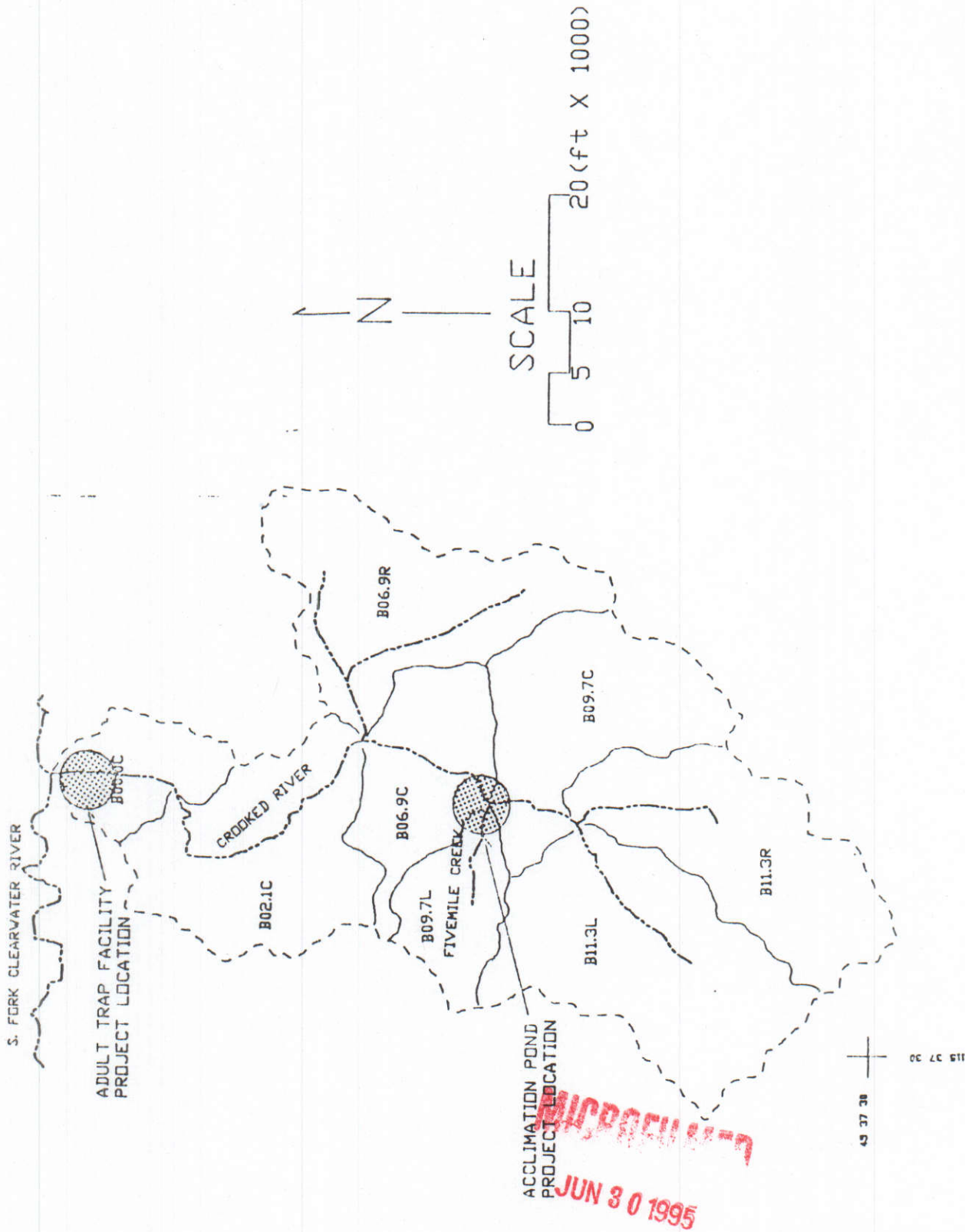
BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Paul J. [Signature] For Id. F&G.
(Applicant)
Engineering Supervisor

WATERSHED MAP

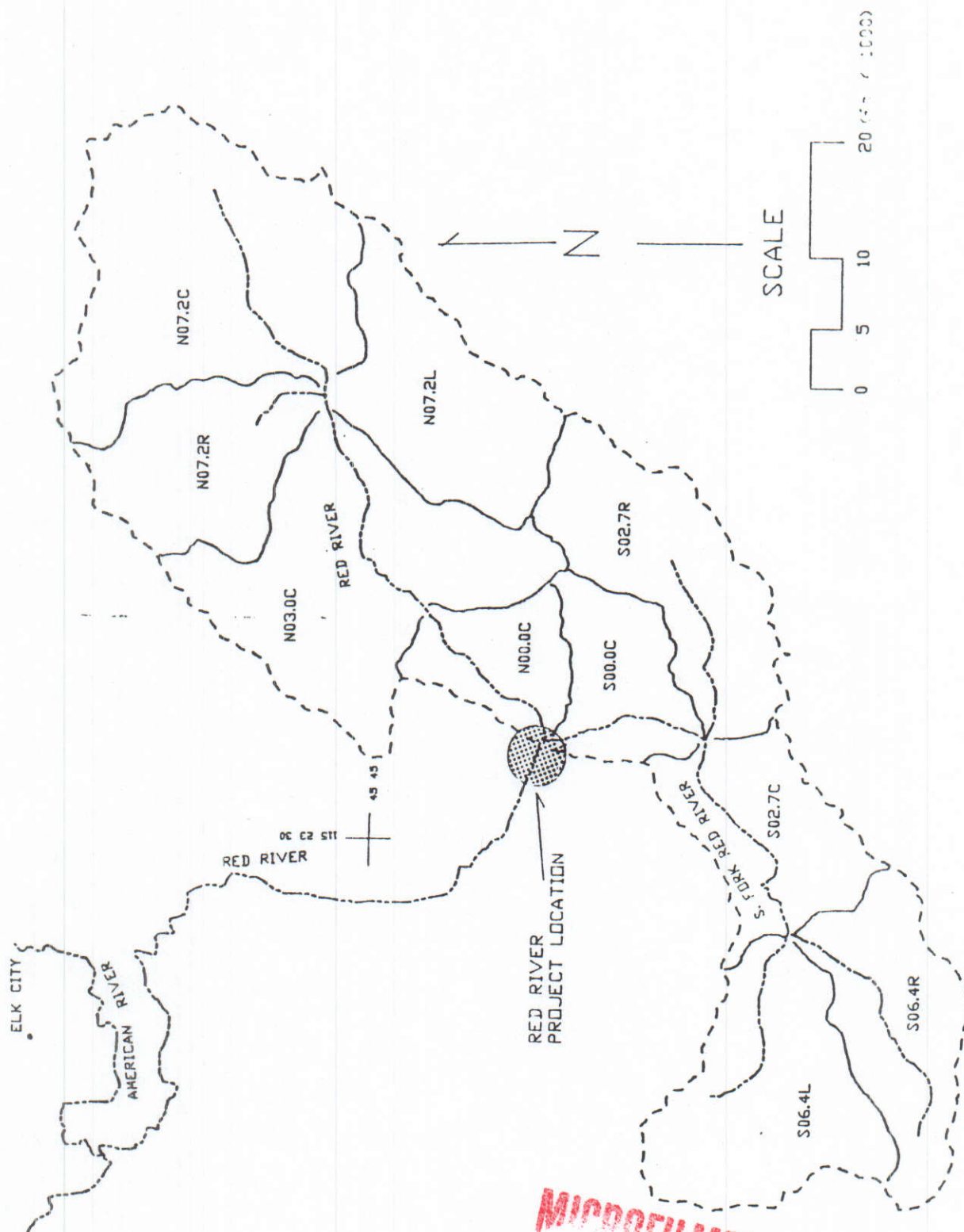


UNRECORDED
JUN 30 1995



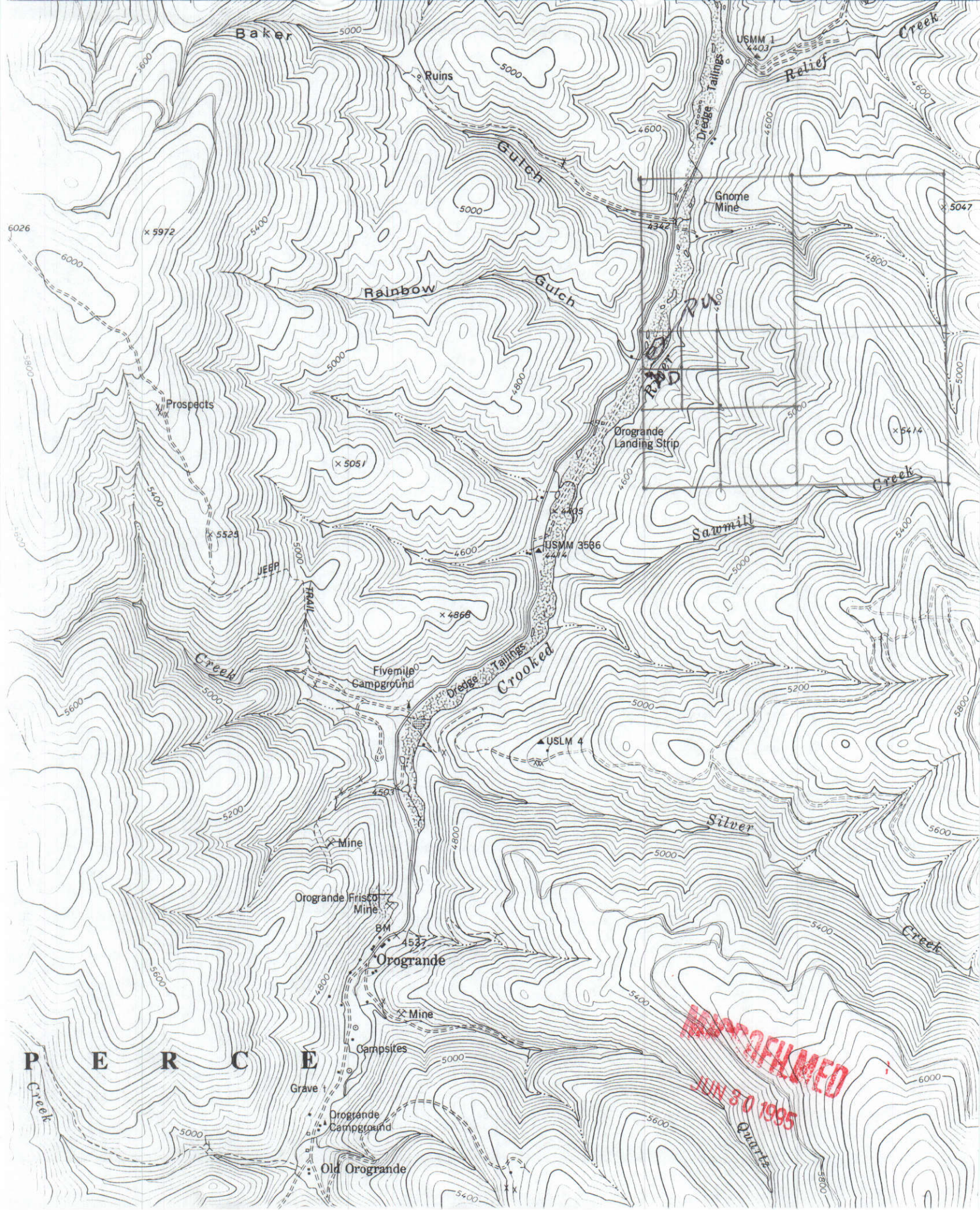
CROOKED RIVER SUBWATERSHED

RED RIVER SUBWATERSHED



MICROFILMED

JUN 30 1995



REPRODUCED FROM
JUN 30 1995
QUARTZ

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
FIELD REPORT SUPPLEMENT

PERMIT # 82-07186

PAGE 1 OF 2

PHOTOGRAPHS



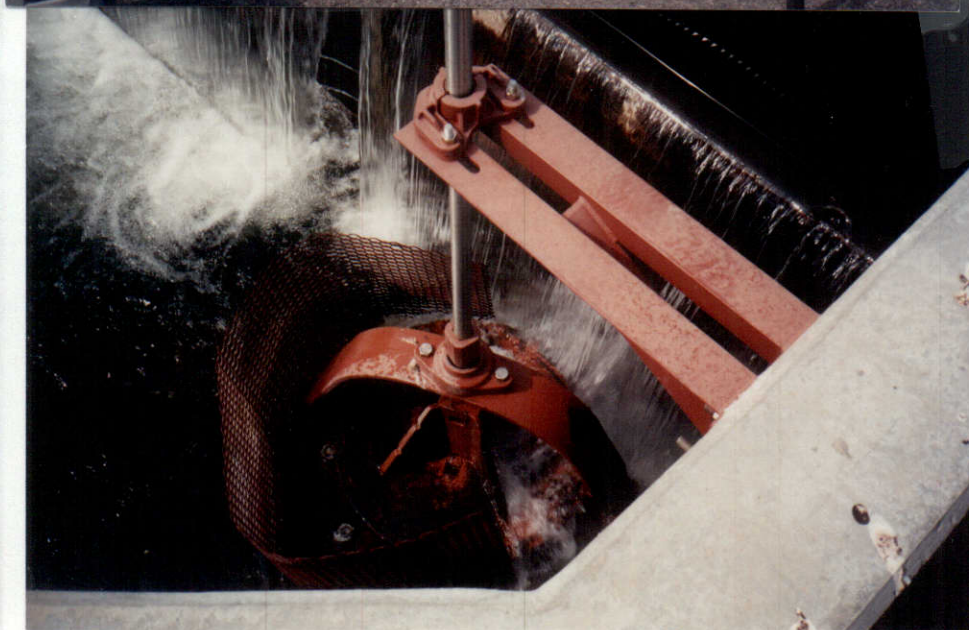
INTAKE STRUCTURE



Clean Out Pond



FISH
Race ways



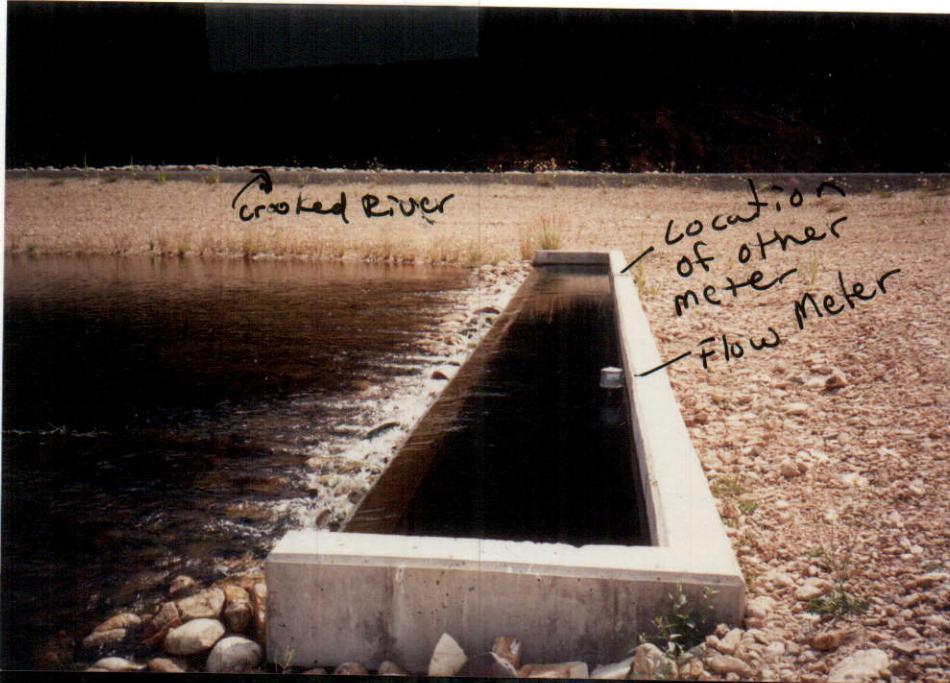
MICROFILMED
JUN 30 1995

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
FIELD REPORT SUPPLEMENT

PERMIT # 82-07186

Page 2 of 2

PHOTOGRAPHS



Settling Pond



← settling Pond

Discharge into Crooked River
↓



RECEIVED

JAN 18 1995

NORTHERN REGION
IDWR

NOTICE OF AMENDMENT ^{OK}

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-07186, in the name of State of Idaho Department of Fish and Game, Box 25, 600 S. Walnut, Boise, ID 83707, was amended.

The point of diversion is T28N R08E, Sec. 30, SWNWSW, Idaho County, ID, and the place of use is T28N, R08E, Sec. 30, NWSW. Use is for fish propagation.

The period of use has been changed from 05/01 - 11/01 to 03/01 - 11/01.

(For additional information concerning the property location, call the Northern Regional Office at 769-1450.)

Any protests against the approval of the above-referenced amendment must be filed with the applicant and with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814, together with a protest fee of \$25.00 on or before January 23, 1995.

R. KEITH HIGGINSON, DIR.
Published in the Idaho County Free Press 1/4 & 11/95.

J4-11

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO
County of Idaho - ss.

Andrew J. McNab, being first duly sworn, says she is the Publisher of the IDAHO COUNTY FREE PRESS, a weekly newspaper published and issued weekly at Grangeville, Idaho county, State of Idaho, and is of general circulation in said county and state, that the said notice, of which the one hereto attached is a true copy, was published in said paper for two weeks, being published two times, the first publication being on the 4th day of January, 19 94, and the last publication on the 11th day of January, 19 95; and that the said notice was published in the newspaper proper and not a supplement; that said newspaper has been continuously and uninterruptedly published in said county during a period of seventy-eight consecutive weeks prior to the publication of said notice or advertisement.



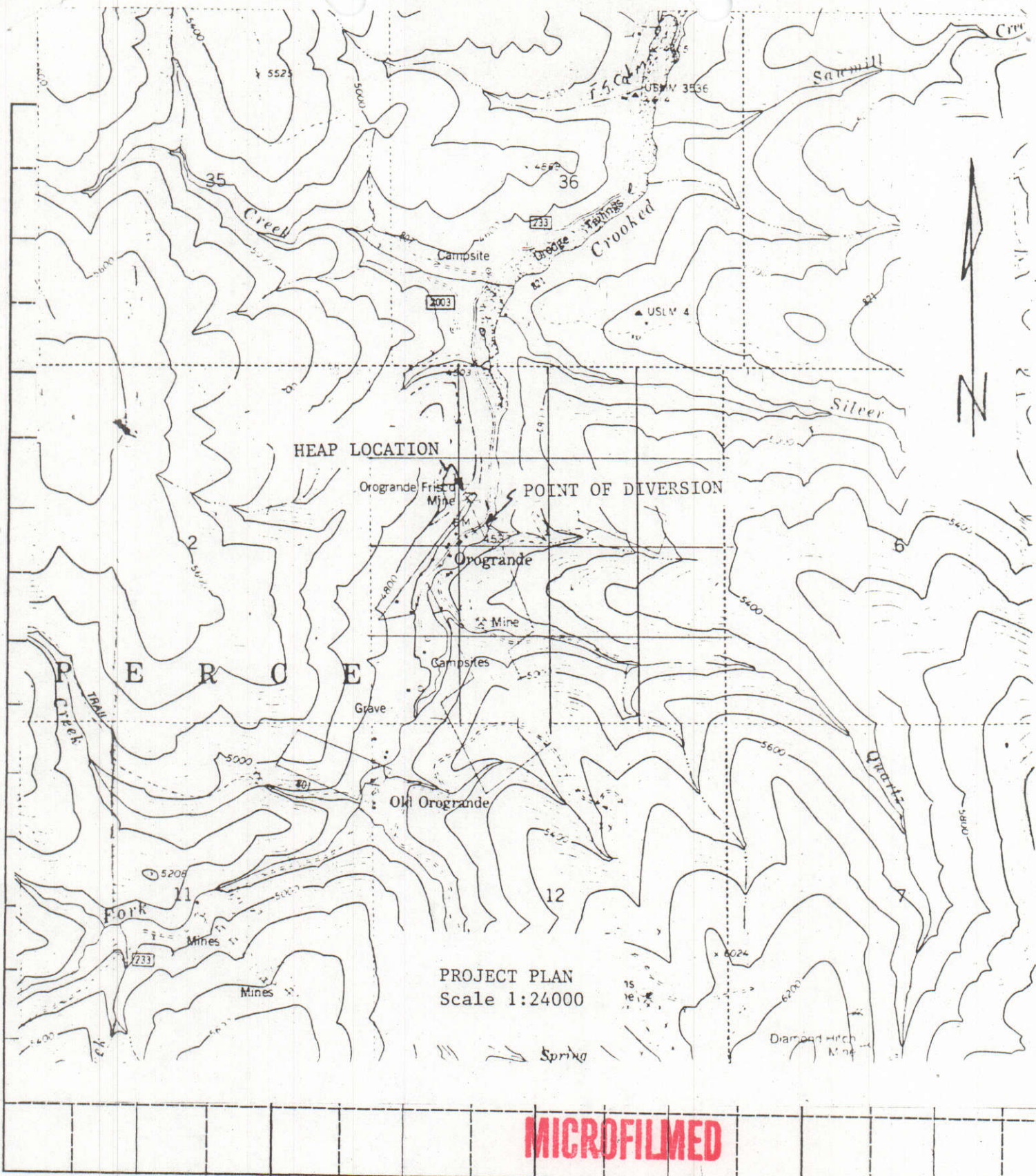
STATE OF IDAHO }
COUNTY OF } IDAHO

On this 11th day of January in the year of 1995,
Before me, a Notary Public, personally appeared Andrew J. McNab, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he executed the same.


Notary Public for Idaho
Residing at Grangeville, ID
My commission expires: 10-8-99

MICROFILMED

JUN 30 1995



Scale: 2 inches equal 1 mile.

SEP 14 1989

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

J. Tubo **V. P. Glamis Inc.**
(Applicant)

NOTICE OF CORREC-
TION

NOTICE IS HEREBY
GIVEN THAT APPLICATION FOR PERMIT No.
82-7186 in the name of
Idaho Dept of Fish and
Game was advertised in-
correctly on February 2 &
9, 1989.

The place of use was in-
correctly advertised as
T28N R08E S30; whereas,
correctly it should be
T28N R08E S30 NWSW

Protests to the above-re-
ferenced correction must
be filed with the Director,
Dept of Water Resources,
1910 Northwest Blvd.,
Suite 210 Coeur d'Alene,
ID 83814 on or before
March 20, 1989.

R. Keith Higginson
Director
PUBLISH: Thursday,
March 2 and 9, 1989.

Affidavit of Publication



No 19585

STATE OF IDAHO,
COUNTY OF TWIN FALLS

ss.

MAR 13 1989

I, Linda Copps McQuire, Quire Clerk being first duly sworn upon
oath, depose and say that I am Quire Clerk of the TIMES-NEWS,
published daily, at Twin Falls, Idaho, and do solemnly swear that a copy of
the notice of advertisement, as per clipping attached, was published in the regular and
entire issue of said newspaper, and not in any supplement thereof, for Two
consecutive Weeks, commencing with the issue dated
March 2, 1989, and ending with the issue dated
March 9, 1989.

And I do further certify that said newspaper is a consolidation, effective February 16,
1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin
Falls News, published theretofore daily except Monday, both of which newspapers prior to
consolidation had been published under said names in said city and county continuously and
uninterruptedly during a period of more than twelve consecutive months, and said TIMES-
NEWS, since such consolidation, has been published as a daily newspaper except Saturday,
until July 31, 1978, at which time said newspaper began daily publication under said name
in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week
has been designated as the day on which legal notice by law or by order of any court of com-
petent jurisdiction within the State of Idaho, to be published weekly, will be published; and
that at the head of the editorial column of said combined newspapers, and in each issue there-
of, Thursday is announced as the day on which said legal notices will be published.

Linda Copps McQuire
Subscribed and sworn to before me on this 10 day of
March, 1989.
Sheva R. Feltman

Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

TRIBUNE PUBLISHING COMPANY, INC.
The Lewiston Morning Tribune
505 C St., P.O. Box 957
Lewiston, Idaho 83501
(208) 743-9411

Date 052589 INVOICE No. L00163153

Account No. 96475 63-07654

Description 63153NOTIC

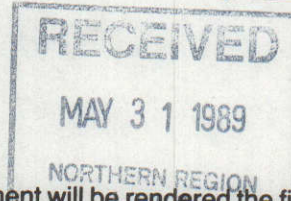
Times 2 Lines 55

Tab Lines

\$ 55.00

**LEGAL ADVERTISING
INVOICE**

SOLD TO: STATE OF IDAHO
DEPT. OF WATER RESOURCES
4055 GOVERNMENT WAY
COEURDALENE
ID 83814



NOTICE: This is an invoice of Purchase made by you. Statement will be rendered the first of the month.
Please Retain This Invoice as Your Statement Will Refer To Invoice by No. Only.

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State Of Idaho:

CONSOLIDATED FARMS, INC.
DBA ELK MOUNTAIN FARMS
12855 FLUSHING MEADOW DR.
SUITE 200 B
ST. LOUIS, MO 63131

Source: KOOTENAI RIVER Tributary: COLUMBIA RIVER
Diversion Pt: LOT 2 (NWNE) Sec 23 T 64N R 01W
Use: IRRIGATION (10.500 CFS)
Date Filed: 3/03/1989

In: T64N R01W S23 NWNE SWNE SENE NENW
SENE NESW NWSW SWSW
SESW NESE NWSE SWSE
S24 SWNW
S26 NWNE NENW NWNW SWNW
SENE

525.7 ACRES TOTAL
CONSOLIDATED FARMS INC.
DBA ELK MOUNTAIN FARMS
12855 FLUSHING MEADOW DR.
SUITE 200B
ST. LOUIS, MO 63131

Source: KOOTENAI RIVER Tributary: COLUMBIA RIVER
Diversion Pt: LOT 7 (SWSE) Sec 7 T 65N R 01W
Use: IRRIGATION (12.100 CFS)
Date Filed: 3/03/1989

In: T65N R01W S07 SWSW SESW NESE NWSE
SWSE SESE

S08 NESW NWSW SWSW SESW
S17 NENW NWNW SWNW SENW
S18 NENE NWNE SWNE SENE
NENW NWNW SWNW SENW
604.5 ACRES TOTAL

For additional information concerning the property location, call the Northern Regional Office at 765-4639.

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Northern Region, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Idaho 83814 on or before JUNE 5, 1989.

R. KEITH HIGGINSON, Director

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NVSW.

(For additional information concerning the property location, call the Northern Regional Office at 765-4639.)

Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before June 5, 1989.

R. KEITH HIGGINSON, Dir.

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO, ss.
County of Nez Perce

Sue Baumeister

being duly sworn,
I, Sue Baumeister, being duly sworn, and says, I am the Legal Clerk of the Lewiston Morning Tribune Publishing Company, a corporation organized and existing and by virtue of the laws of the State of Idaho, publishers of the LEWISTON MORNING TRIBUNE, a newspaper of general circulation published at Lewiston, Nez Perce County, Idaho; That the said Lewiston Morning Tribune is an established paper and has been published regularly issued regularly at least once a day for more than 21 consecutive days immediately preceding the first publication of this notice, and has been so published uninterrupted for said period; that the

NOTICE OF APPLICATION FOR

published hereto and which is made a part of this affidavit was published in the Lewiston Morning Tribune, 2 time(s). Publication began on

051889, or once a WEEK for 2 consecutive WEEKS, the first

publication thereof being on the 051889, and the last publication thereof being on the 052589, and said

NOTICE OF APPLICATION FOR

published in the regular and entire issue of said newspaper and a supplement thereof and was so published in every issue and part of the said paper, during the period and times of publication as set forth above.

Sue Baumeister

SUBSCRIBED AND SWORN BEFORE ME THIS THE 25

1989

Notary Public in and for the State of Idaho, residing at Lewiston, therein.

Proof of Publication

The Post-Register

State of Idaho, }
County of Bonneville } ss

I, ... Ted Delezene, first being duly sworn, depose and say: That I am the Foreman of The Post Company, a corporation of Idaho Falls, Bonneville County, Idaho, publishers of The Post-Register, a newspaper of general circulation, published daily, except Saturday, at Idaho Falls, Idaho; said Post-Register being a consolidation of the Idaho Falls Times, established in the year 1890, The Idaho Register, established in the year 1880 and the Idaho Falls Post, established in 1903, such consolidation being made on the 1st day of November, 1931, and each of said newspapers have been published continuously and uninterruptedly, prior to consolidation, for more than seventy-eight (78) weeks and said Post-Register having been published continuously and uninterruptedly from the date of such consolidation, up to and including the last publication of notice hereinafter referred to.

That the notice, of which a copy is hereto attached and made a part of this affidavit, was published in said Post-Register for two consecutive weeks, first publication having been made on the 16th day of March, 19.89., last publication having been made on the 23rd day of March, 1989., and that the said notice was published in the regular and entire issue of said paper on the respective dates of publication, and that such notice was published in the newspaper and not in a supplement.

Subscribed and sworn to before me, this .. 27th .. day of March, 19.89.

Ted Delezene
.....
Don K. Napier
.....
Notary Public

My commission expires . September 30, ..., 19.94..

NOTICE OF CORRECTION
NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of the State of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989. The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW. Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before April 3, 1989.
R. KEITH HIGGINSON, Dir.
Published: March 16, 23, 1989

K
3/31/89

MICROFILMED

SEP 14 1989



The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Do not pay error.

Amount Due

29.88

Account Name Idaho Department of Water Resources (Northern)			Account Number #100631	
Address 1910 Northwest Blvd., Suite 210		City/State Coeur d'Alene, ID		Zip 83814
Ordered By Patricia Stypa	P.O. Number	Rate NT	Run Dates 1989 March 2, 9	
Identification Notice of Correction: Permit No. 82-7186			Estimated Inches	Real Inches
1 Number of Affidavits Requested				Legal Number #1984

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW. The source was incorrectly advertised as Crooked River; whereas, correctly it should be Crooked River, Trib. to Clearwater River, South Fork.

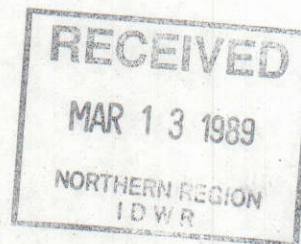
Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, ID 83814 on or before March 20, 1989.

R. KEITH HIGGINSON
Director

Pub. Mar. 2, 9, 1989

1984

STATE OF IDAHO)
) ss.
COUNTY OF ADA)



Debbie Richards

_____, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for 2 ☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of March 2, 19 89

and ending with the issue of March 9, 19 89

Debbie Richards

Subscribed and sworn to before me this 9th

day of March, 19 89

MICROFILMED

SEP 14 1989

Notary Public for Idaho, Residing at Boise, Idaho

*Called person on 3/14/89 -
told them fault - they
will credit our account for
this billing.*

3/14/89

Proof of Publication The Post-Register

State of Idaho, }
County of Bonneville } ss

I, ... Dick. Hardy....., first being duly sworn, depose and say: That I am the Asst.. Foreman..... of The Post Company, a corporation of Idaho Falls, Bonneville County, Idaho, publishers of The Post-Register, a newspaper of general circulation, published daily, except Saturday, at Idaho Falls, Idaho; said Post-Register being a consolidation of the Idaho Falls Times, established in the year 1890, The Idaho Register, established in the year 1880 and the Idaho Falls Post, established in 1903, such consolidation being made on the 1st day of November, 1931, and each of said newspapers have been published continuously and uninterruptedly, prior to consolidation, for more than seventy-eight (78) weeks and said Post-Register having been published continuously and uninterruptedly from the date of such consolidation, up to and including the last publication of notice hereinafter referred to.

That the notice, of which a copy is hereto attached and made a part of this affidavit, was published in said Post-Register for two..... consecutive weeks, first publication having been made on the 2nd..... day of February....., 19.89., last publication having been made on the 9th..... day of February....., 19.89., and that the said notice was published in the regular and entire issue of said paper on the respective dates of publication, and that such notice was published in the newspaper and not in a supplement.

Subscribed and sworn to before me, this ... 27th day of February....., 19.89.

Notary Public

My commission expires . September . 30, ..., 1994 ..

B10

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

82-07186

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83707

Source: CROOKED RIVER Tributary:
CLEARWATER RIVER, SOUTH FORK
Diversion Pt: SWNWSW Sec 30 T 28N R 08E

Use: FISH PROPAGATION (12,000 CFS)
Date Filed: 1/23/1989
In: T28N R08E S30 *NWSW*

The permit(s) will be subject to all prior water rights. Protests must be filled with the Director, Dept. of Water Resources, Northern Region, 1910 Northwest Blvd., Suite 210, Coeur d' Alene, Idaho 83814 on or before FEBRUARY 21, 1989.

R. KEITH HIGGINSON, Director
Published: February 2, 9, 1989

RECEIVED

MAR 01 1989

NORTHERN REGION
IDWR

MICROFILMED

SEP 14 1989

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of the State

of Idaho:

82-07186

State of Idaho
Dept. of Fish and Game
P.O. Box 25
Boise, Id 82707
Source: CROOKED RIVER

Tributary: Clearwater River, South Fork
Diversion Pt: SWNWSW
Sec 30T 28N R 08E
Use: Fish Propagation (12,000 CFS)

Date Filed: 1/23/1989

In: T28N R08E S30 *ANWU*

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Northern Region, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Idaho 83814 on or before February 21, 1989.

R. Keith Higginson
Director

PUBLISH: Thursday,
February 2 and 9, 1989.

Affidavit of Publication

STATE OF IDAHO,
COUNTY OF TWIN FALLS }

ss.

I, *Linda Capps McSwine* being first duly sworn upon oath, depose and say that I am *Quinn Chapp* of the TIMES-NEWS, published daily, at Twin Falls, Idaho, and do solemnly swear that a copy of the notice of advertisement, as per clipping attached, was published in the regular and entire issue of said newspaper, and not in any supplement thereof, for *Two* consecutive *Weeks*, commencing with the issue dated *February 2*, 19*89*, and ending with the issue dated *February 9*, 19*89*.

And I do further certify that said newspaper is a consolidation, effective February 16, 1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin Falls News, published theretofore daily except Monday, both of which newspapers prior to consolidation had been published under said names in said city and county continuously and uninterruptedly during a period of more than twelve consecutive months, and said TIMES-NEWS, since such consolidation, has been published as a daily newspaper except Saturday, until July 31, 1978, at which time said newspaper began daily publication under said name in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week has been designated as the day on which legal notice by law or by order of any court of competent jurisdiction within the state of Idaho, to be published weekly, will be published; and that at the head of the editorial column of said combined newspapers, and in each issue thereof, Thursday is announced as the day on which said legal notices will be published.

Linda Capps McSwine
Subscribed and sworn to before me on this *9* day of

February, 19*89*.
Bonnie Schuch

Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho



Nº 19488

MICROFILMED

SEP 14 1989

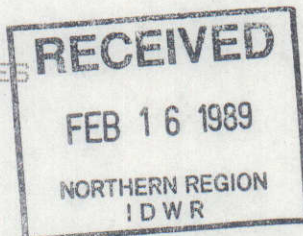
TRIBUNE PUBLISHING COMPANY, INC.
The Lewiston Morning Tribune
505 C St., P.O. Box 957
Lewiston, Idaho 83501
(208) 743-9411

Date 020989 INVOICE No. 100155030
Account No. 96475 82-07186
Description 55030NOTIC
Times 2 Lines 46
Tab Lines _____

**LEGAL ADVERTISING
INVOICE**

SOLD TO:

STATE OF IDAHO
DEPT. OF WATER RESOURCES
4055 GOVERNMENT WAY
COEURDALENE
ID 83814



\$ 46.00

NOTICE: This is an invoice of Purchase made by you. Statement will be rendered the first of the month.
Please Retain This Invoice as Your Statement Will Refer To Invoice by No. Only.

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO, ss.
County of Nez Perce

Lori Andersen

_____, being duly sworn,
deposes and says, I am the Legal Clerk
of the Tribune Publishing Company, a corporation organized and existing
under and by virtue of the laws of the State of Idaho, publishers of the
LEWISTON MORNING TRIBUNE, a newspaper of general circulation
published at Lewiston, Nez Perce County, Idaho; That the said Lewiston
Morning Tribune is an established paper and has been published regular-
ly and issued regularly at least once a day for more than 21 consecutive
years next immediately preceding the first publication of this notice, and
has been so published uninterrupted for said period; that the

55030
**NOTICE OF APPLICATION FOR
WATER RIGHT**

The Following application(s) have
been filed to appropriate the public
waters of the State of Idaho:

82-07186

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83707
Source: CROOKED RIVER

Tributary: CLEARWATER RIVER,
SOUTH FO
Diversion Pt: SWNWSW Sec 30
T 28N R 08E

Use: FISH PROPAGATION
(12,000 CFS)

Dated Filed: 1/23/1989

In: T28N R08E S30

85-07520

SCHILLING, ROBERT
SCHILLING, CHARLENE
SNAKE RIVER RT.
LEWISTON, ID 83501
Source: SNAKE RIVER

Tributary: COLUMBIA RIVER
Diversion Pt: SESWSE Sec 34
T 32N R 05W

Use: IRRIGATION (.160 CFS)
STOCKWATER (.020 CFS)

DOMESTIC (.020 CFS)

Date Filed: 1/18/1989

In: T31N R05W S03 NE-
NE NWNE

9.0 ACRES TOTAL

The permit(s) will be subject to
all prior water rights. Protests must
be filled with the Director, Dept. of
Water Resources, Northern Region,
1910 Northwest Blvd., Suite 210, Co-
eur d'Alene, Idaho 83814 on or before
FEBRUARY 21, 1989.

R. KEITH HIGGINSON, Director

NOTICE OF APPLICATION FOR W

attached hereto and which is made a part of this affidavit was published in
the said Lewiston Morning Tribune, 2 time(s). Publication be-
ing on 020289
WEEK for 2 consecutive WEEKS, or once a
publication thereof being on the 020289, and the last pub-
lication thereof being on the 020989, and said

NOTICE OF APPLICATION FOR W

was so published in the regular and entire issue of said newspaper and
not in a supplement thereof and was so published in every issue and
number of the said paper, during the period and times of publication as
set forth above.

Lori Andersen

SUBSCRIBED AND SWORN BEFORE ME THIS THE 10

day of February 1989

Sheryl M. Lentz

Notary Public in and for the State of Idaho,
residing at Lewiston, therein.

RECEIVED
FEB 16 1989
NORTHERN REGION
IDWR

NOT RECORDED
SEP 14 1989

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due

3468

Account Name		Account Number	
Idaho Department of Water Resources (Northern)		#100631	
Address		City/State	Zip
1910 Northwest Blvd., Suite 210		Coeur d'Alene, ID	83814
Ordered By	P.O. Number	Rate	Run Dates
Patricia Stypa		NT	1989 February 2, 9
Identification		Estimated Inches	Real Inches
Application for Water Right: 82-07186			
1 Number of Affidavits Requested			Legal Number
			#1757

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

82-07186

State of Idaho
Dept. of Fish & Game
P.O. Box 25
Boise, ID 83707

Source: Crooked River *TRIB.*
Diversion Pt: SWNWSW Sec.
30 T 28N R 08E

Use: Fish Propagation
(12,000 CFS)

Date Filed: 01/23/1989
In: T28N R08E S30 *(MWSW)*

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Northern Region, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, ID 83814 on or before FEBRUARY 21, 1989.

R. KEITH HIGGINSON
Director

Pub. Feb. 2, 9, 1989

1757

RECEIVED

FEB 13 1989

NORTHERN REGION
IDWR

STATE OF IDAHO)
COUNTY OF ADA) ss.

Debbie Richards

, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for 2 ☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of February 2, 1989

and ending with the issue of February 9, 1989

Debbie Richards

Subscribed and sworn to before me this 9th

day of February, 1989

Notary Public for Idaho, Residing at Boise, Idaho

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SEP 14 1989

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 82-07186

Priority: January 23, 1989

Maximum Diversion Rate: 10.00 CFS
Maximum Diversion Volume: 4320.1 AF

This is to certify, that STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated January 23, 1989; and has submitted Proof of Beneficial Use on August 1, 1991. An examination indicates that the works have a diversion capacity of 11.000 cfs of water from:

CROOKED RIVER tributary to CLEARWATER RIVER, SOUTH FORK

source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
FISH PROPAGATION	01 to 07/31	10.00 CFS	3034.8 AF
FISH PROPAGATION	to 10/20	8.00 CFS	1285.3 AF
	Total	10.00 CFS	4320.1 AF

LOCATION OF POINT(S) OF DIVERSION NWSW, Sec. 10, Township 28N, Range 08E
IDAHO County

PLACE OF USE: FISH PROPAGATION
TWN RGE SEC
28N 08E 30 NWSW

PLACE OF USE: FISH PROPAGATION
TWN RGE SEC
28N 08E 30 NWSW

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Use of water under this right shall be non-consumptive.

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JUN 30 1995

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 82-07186

CONDITIONS/REMARKS:

6. Water used under this right if discharged into a natural channel shall meet Idaho Water Quality Standards.
7. The right holder shall be required to provide the Department, upon request, information showing volume changes per hour necessary to maintain an adequate environment for the fish propagation facility. Volume changes per hour shall be based upon actual fish production.
8. Use of water under this right is subject to policies set forth in the State of Idaho Water Plan, including Policy No. 5G.
9. Minimum streamflows shall be maintained in the Crooked River to allow year round migration of fish from the point of discharge upstream to the point of diversion.
10. The facility volume is 6 af.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 14TH
day of JUNE, 1995.


of KARL J. DREIER, Director

DWR

APPROVED MED

JUN 30 1995

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF CHANGING THE FLOW)
MEASUREMENT DEVICE CONDITION OF)
APPROVAL FOR PERMIT NO. 82-07186 IN)
IN THE NAME OF THE STATE OF IDAHO,)
DEPARTMENT OF FISH AND GAME)

ORDER

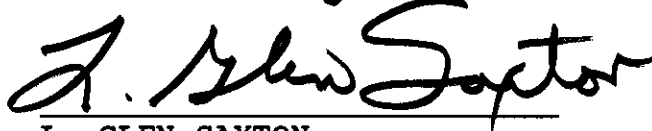
WHEREAS, the Department of Water Resources (department) has issued the above captioned water right permit with a condition of approval requiring the permit holder to install measuring devices at the point of diversion and the point of effluent discharge; and

WHEREAS, the department has determined that the permit holder has installed a measuring device midway between the point of diversion and the point of effluent discharge; and

WHEREAS, the department has determined that the measuring device currently installed can be used to determine the rate of flow diverted under the above captioned permit;

IT IS THEREFORE, HEREBY ORDERED that the condition of approval requiring the installation of measuring devices at the point of diversion and the point of effluent discharge is **WAIVED**. The department retains jurisdiction to require the condition to be reinstated in the future upon a finding of need by the department.

Dated this 8th day of June, 1995.



L. GLEN SAXTON
Chief, Water Allocation Bureau



JUN 30 1995

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MAR 03 1995

Receipt No. N008511 \$50.00
Received By do
Date 12/15/94

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Applicant Idaho Department of Fish and Game Phone (208) 334-3700
Address P.O. Box 25 600 S. Walnut Boise ID 83707

I am the owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 82-7186, and request that the permit and permit map be amended and/or changed as follows:

Purpose of Amendment: Change point of diversion Add point of diversion
Change place of use Change nature of use X Change period of use Other

1. Point of diversion: SW 1/4 NW 1/4 SW 1/4, Section 30, Township 28N, Range 8E, B.M.,
County of Idaho. Other points of diversion _____

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 12 ^{10 CAR 5/25/93} for Fish Culture purposes from March 1 to July 31 (both dates inclusive)
(cfs or acre feet per annum) (water use) (Begin month) (End month)

Amount 8 ^{CAR 5/25/93} for Fish Culture purposes from August 1 to October 20 (both dates inclusive)
(cfs or acre feet per annum) (water use) (Begin month) (End month)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre feet per annum) (water use) (Begin month) (End month)

3. Place of use or land to be irrigated:

T w p	R g e	S e c	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
28N	8E	30										H							

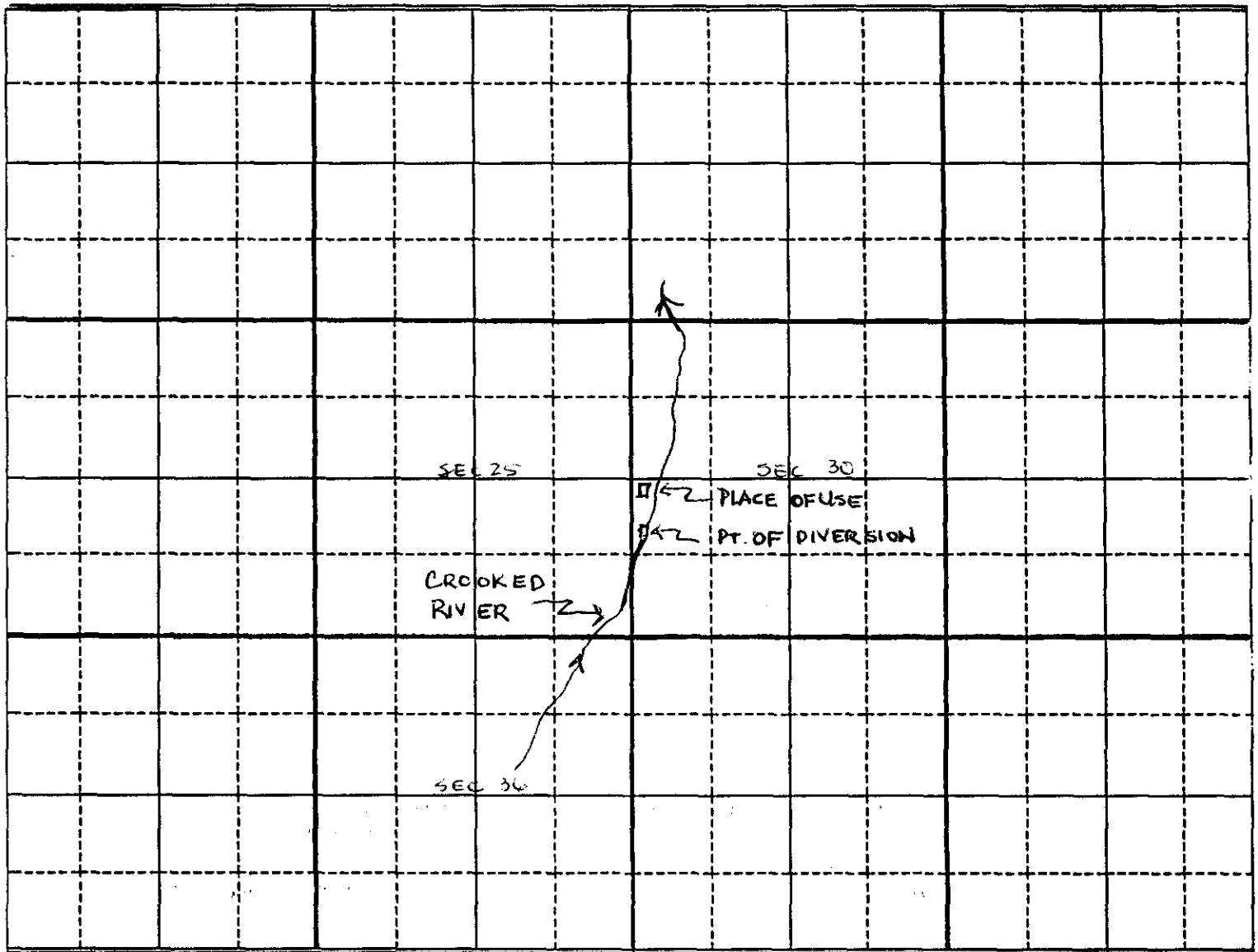
Total number of acres to be irrigated = _____

4. a. Who owns the property at the point of diversion? U.S. Forest Service
b. Who owns the land to be irrigated at the place of use? U.S. Forest Service
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: Special Use Permit

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Department of Water Resources
JUN 30 1995

Complete the following map by showing land and point of diversion as proposed by this amendment.
 Show 1/4 1/4, section, township, range and ditches. (the smallest subdivision represents 40 acres)



Scale: 2 inches equal 1 mile

I hereby request approval of this change subject to the fact that no one will be injured by the change, and that the change will be made at my own risk.

Signed this 6th day of December, 19 94.

Cynthia A. Robertson Fishery Staff Bider, 1st, IDEC
 Permit Holder

ACTION OF THE DEPARTMENT OF WATER RESOURCES

Preliminary check by _____ Publication prepared by d Date 12/28/94
 Published in County Free Press 1/4 & 11/95 Publication dates 1/4 & 11/95

I, L. GLEN SAXTON, of the Department of Water Resources hereby
 APPROVE THE ABOVE REFERENCED APPLICATION FOR AMENDMENT PROVIDED THE CONDITIONS AS SET
 FORTH IN PERMIT NO. 82-07186 ARE MET.

Witness my hand this

8th

day of

June

19

9th 1995

L. Glen Saxton
 SIGNATURE

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AUG 01 1991

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

For Office Use Only
Amt. of Fee \$ 100.00
Date 8-1-91
Receipt No. 6021372
Received by [Signature]

Department of Water Resources

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources will consider this form as a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 82-07186 Telephone No. 334-3730
2. Name(s) of Permit Holder(s): State of Idaho, Department of Fish and Game
3. Post Office Address: P. O. Box 25, Boise, ID 83707
4. Source of Water: Crooked River
 - a. If ground water, well driller's name: _____ Date drilled: _____
 - b. Pump horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft.): _____
5. Extent of Use:

Domestic _____ (No. of households)	Irrigation _____ (No. of acres)
Stockwater _____ (No. and type of stock)	Other <u>Fish Propagation</u>
6. Total rate and/or volume for which proof is submitted 12 cfs _____ acre/feet
7. Refer to the approval conditions on your permit and respond accordingly:

Measuring device: Required? ☒ Yes ☐ No Installed? ☐ Yes ☐ No

OR

Flow Measurement Port: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No
8. Fee Enclosed: \$ 400.00 (See License Examination Fee Schedule)
9. Person to contact to accompany the Department representative during the field examination:

<u>Jerry McGeehee</u>	<u>935-2112</u>
Name	Telephone No.
<u>Route 2, Box 121-A, Kamiah, ID 83536</u>	
Address	
10. The above information is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the state of Idaho.

July 15, 1991
Date

[Signature], Engineering Supervisor
Signature (and title if on behalf of a company or organization)

NOV 21 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

Ident. No. 82-7186

APPROVED

1. Name of applicant Idaho Department of Fish and Game Phone 334-3730
Post office address P. O. Box 25, Boise, ID 83707
2. Source of water supply Crooked River which is a tributary of So. Fork Clearwater Riv.
3. Location of point of diversion is SW $\frac{1}{4}$ of NW $\frac{1}{4}$ of SW $\frac{1}{4}$, Govt. Lot _____
Sec. 30 Township 28 N. Range 8 E. B.M. Idaho County; additional
points of diversion if any: _____
4. Water will be used for the following purposes:
Amount 12 for Fish Cultural purposes from May 1 to Nov. 1 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 12 cfs and/or (b) _____
cubic feet per second acre feet per annum
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc. Screened concrete intake, gravity 30"
diameter concrete transmission pipe to the facility. Intake will consist of sloping
stainless steel wedge wire screen and will have sluice gate control.
 - b. Height of storage dam N/A feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.
 - c. Proposed well diameter is N/A inches; proposed depth of well is _____ feet.
 - d. Is ground water with a temperature of greater than 90°F being sought? No
7. Time required for the completion of the works and application of the water to proposed beneficial use is
2 years (minimum 1 year).

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SEP 14 1985

8. Description of proposed uses (if irrigation only, go to item 9):

- Hydropower; show total feet of head and proposed capacity in KW. _____
- Stockwatering; list number and kind of livestock. _____
- Municipal; show name of municipality. _____
- Domestic; show number of households. _____
- Other; describe fully. Facility will be used to rear up to 750,000 Spring Chinook Salmon to a size of 30 per pound. The fish will be released in the late fall to Crooked River.

9. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
28 N.	8 E.	30										H							

Total number of acres to be irrigated _____

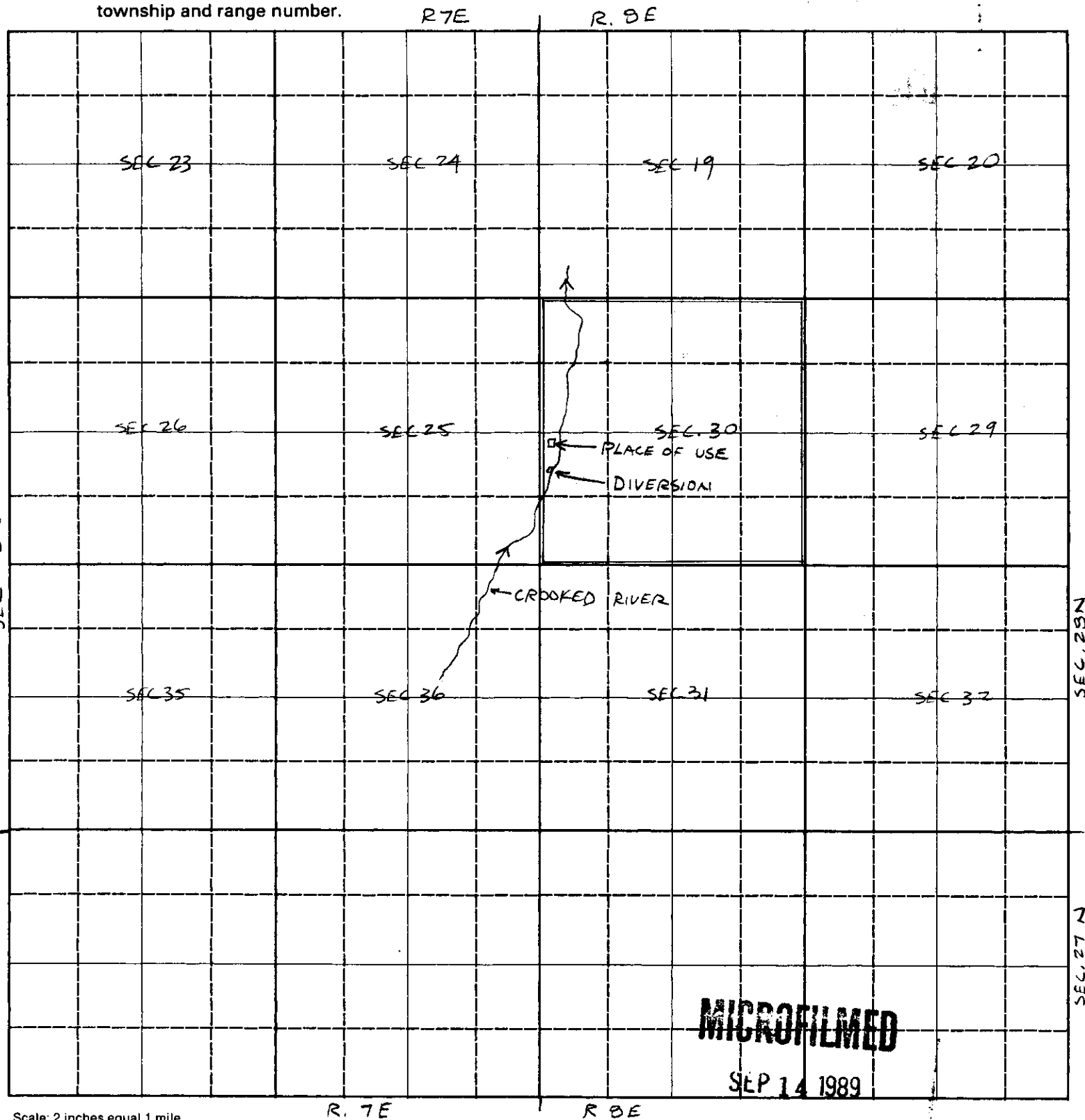
- Describe any other water rights used for the same purposes as described above. A Water Right Application is also being forwarded for an adult Chinook Salmon and Steelhead trap downstream of this facility. -see 82-7185
- Who owns the property at the point of diversion? U. S. Forest Service
 - Who owns the land to be irrigated or place of use? U. S. Forest Service
 - If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. A copy of the Special Use Permit is attached.

12. Remarks: This will be a non-consumptive use.

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SEP 14 1989

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

[Signature] for J. L. F. G.
(Applicant)
Engineering Supervisor

Proposed Priority 1/23/89

Received by JK Date 1/23/89 Time 1:00 PM Preliminary check by JK

Fee \$ 265.00 Receipted by JK # A 2266 Date 1/24/89

Publication prepared by JK Date 1/25/89 Published in 2/18/89

Publication approved JK Date 6/8/89

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 82-7186, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before August 1, 19 91.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other:

SEE ATTACHED SHEET FOR ADDITIONAL CONDITIONS OF APPROVAL

Witness my hand this 10th day of July, 1989.

J. Glen Saylor

RECORDED

SEP 14 1989

ATTACHMENT TO CONDITIONS OF APPROVAL
FOR PERMIT NO. 82-7186

- e. Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.
- f. The issuance of this permit in no way grants any right-of-way or easement across the land of another.
- g. Use of water under this permit shall be non-consumptive.
- h. Water used under this permit if discharged into a natural channel shall meet Idaho Water Quality Standards.
- i. The permit holder shall be required to provide the Department, upon request, information showing volume changes per hour necessary to maintain an adequate environment for the fish propagation facility. Volume changes per hour shall be based upon actual fish production.
- j. Use of water under this right is subject to policies set forth in the State of Idaho Water Plan, including Policy No. 5G.
- k. Measuring devices of a type approved by the Department shall be permanently installed and maintained at the point of diversion and the point of effluent discharge.
- l. Assignment or sale of this permit is subject to a determination by the Department that the permit holder has proceeded to develop the permit with due diligence and without speculation.
- m. Minimum streamflows shall be maintained in Crooked River to allow year round migration of fish from the point of diversion upstream to the point of diversion.

Witness my hand this 10th day of July, 1989.

J. Glen Saxton

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SEP 14 1989

U.S. Dept. of Agriculture
Forest Service

Act of October 21, 1976
(43 USC 1761)

This permit is revocable and
nontransferable (Ref. FSM 2710)

a. Record no. (1-2) 70	b. Region (3-4) NORTHERN 01	c. Forest (5-6) NEZ PERCE 17
d. District (7-8) ELK CITY 08	e. User No. (9-12) 0952-01	f. Kind of Use (13-15) WATER DIVERSION 923 WEIR
g. State (16-17) IDAHO 16	h. County (18-20) IDAHO 049	k. Card no. (21) 1

Permission is hereby granted to U.S. ARMY CORPS OF ENGINEERS of Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, WA 99362, hereinafter called the permittee, to use subject to the conditions set out below, the following described lands in the attached Exhibits which are hereby made a part of this permit.

Exhibit A - Lower Snake River Fish and Wildlife Compensation Plan, Clearwater Hatchery, ~~Crooked River Satellite Facility.~~

Exhibit B - Legal Description.
Exhibit C - Project Map.

Exhibit D - Environmental Analysis.

This permit covers 12.27 acres and is issued for the purpose of: Construction, maintaining and operating a satellite fish hatchery facility. ~~The permittee is authorized to subject the facilities through the U.S. Fish and Wildlife Service to the same fish and game for operation and maintenance.~~ See Exhibit A - Sheet 1 for list of improvements.

GENERAL CONDITIONS

1. This use shall be actually exercised at least 60 days each year, unless otherwise authorized in writing.
2. The holder is a Federal agency exempt from annual rental fees pursuant to Secretary of Agriculture's Regulation 36 CFR 251.57(b)(4). Provided, however, charges for this use may be made or readjusted whenever necessary to place the charges on a basis commensurate with the value of use authorized by this permit. See Clause 18.
3. This permit is accepted subject to the conditions set forth herein, and to conditions 18 to 45 attached hereto and made a part of this permit.
4. Development plans; layout plans; construction, reconstruction, or alteration of improvements; or revision of layout or construction plans for this area must be approved in advance and in writing by the authorized officer. Trees or shrubbery on the permitted area may be removed or destroyed only after the forest officer in charge has approved, and has marked or otherwise designated that which may be removed or destroyed. The Forest Service reserves the right to dispose of the merchantable timber to other than the permittee at no stumpage cost to the permittee. Trees, shrubs, and other plants may be planted in such manner and in such places about the premises as may be approved by the forest officer in charge.

HOLDER	Name of Holder U.S. Army Corps of Engrs. Walla Walla District	Signature of Authorized Officer <i>Richard Carlton</i> Title: Chief, Real Estate Div.	Date 17 Dec. 1987
AUTHORIZED OFFICER	Name and Signature <i>Dave E. Poncin</i> Dave E. Poncin	Title Lands Supervisor (for) Forest Supervisor	Date 1/4/88

(Continued)

SEP 14 1989

2700-4 (7/71)

T-R

5. The holder shall maintain the improvements and premises to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the forest office in charge.

6. This permit is subject to all valid claims.

7. The holder, in exercising the privileges granted by this permit, shall comply with the regulations of the Department of Agriculture and all Federal laws, ordinances, or regulations which are applicable to the area or operations covered by this permit.

8. The holder shall take all reasonable precautions to prevent and suppress Forest fires. No material shall be disposed of by burning in open fires during the closed season established by law or regulation without a written permit from the forest officer in charge or his authorized agent.

9. The holder shall exercise diligence in protecting from damage the land and property of the United States covered by and used in connection with this permit, by the holder, or by agents or employees of the holder acting within the scope of their agency or employment.

10. The holder shall fully repair all damage, other than ordinary wear and tear, to National Forest roads and trails caused by the holder in the exercise of the privilege granted by this permit.

11. No member of, or delegate to Congress or Resident Commissioner, shall be admitted to any share or part of this agreement or to any benefit that may arise herefrom unless it is made with a corporation for its general benefit.

12. Upon abandonment, termination, revocation, or cancellation of this permit in whole or in part, the holder shall remove within one (1) year all affected structures and improvements except those owned by the Forest Service, and shall restore the site, unless otherwise agreed upon in writing or in this permit.

13. This permit is not transferable except as noted in clause 15..

14. In case of change of address, the holder shall immediately notify the authorized officer.

15. The temporary use and occupancy of the premises and improvements herein described shall not be sublet by the holder to third parties EXCEPT that the holder may sublet the facility through the U.S. Fish and Wildlife Service to the Idaho Fish and Game for operations and maintenance.

16. This permit may be limited, suspended or revoked, in whole or in part, by the authorized officer only after advance notice to, and mutual consent of, the holder.

17. In the event of any conflict between any of the preceding printed clauses or any provisions thereof, and any of the following clauses or any provisions thereof, the following clauses will control:

FEEES AND PAYMENTS

18. Required Payments. Any fees or payments required to be made by the permittee under this permit shall be subject to fund availability for the permitted purpose.

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SAFETY, HEALTH, AND LIABILITY

19. Risks and Hazards. Avalanches, rising waters, high winds, falling limbs or trees, and other hazards are natural phenomena in the Forest that present risks which the holder assumes. The holder has responsibility of inspecting the site, lot, right-of-way, and immediate adjoining area for dangerous trees, hanging limbs, and other evidence of hazardous conditions and, after securing permission from the Forest Service, of removing such hazards.

20. Construction Safety. The holder shall carry on all operations in a skillful manner, having due regard for the safety of employees; and shall safeguard with fences, barriers, fills, covers, or other effective devices, pits, cuts, and other excavations which otherwise would unduly imperil the life, safety, or property of other persons.

21. Health, Safety, and Environmental Protection. Holder shall take all measures necessary to protect the health and safety of all persons affected by its activities performed in connection with the construction, operation, maintenance, or termination of the right-of-way, and shall promptly abate as completely as possible any physical or mechanical procedures, activity, event, or condition, existing or occurring at any time:

- (1) that is susceptible to abatement by the holder,
- (2) which arises out of, or could adversely affect the construction, operation, maintenance, or termination of all or any part of the water diversion, weir and rearing pond, and
- (3) that causes or threatens to cause:
 - (a) a hazard to the safety of workers or to public health or safety or
 - (b) serious and irreparable harm or damage to the environment (including but not limited to areas of vegetation or timber, fish or other wildlife populations, or their habitats, or any other natural resource).

Holder shall immediately notify the authorized officer of all serious accidents which occur in connection with such activities.

22. Area Maintenance. The permitted area will be maintained to present a clean, neat, and orderly appearance. Trash, debris, unusable machinery, improvements, etc., will be disposed of currently. Building materials, firewood, etc., will be neatly stacked.

23. Refuse Disposal. The holder shall dispose of refuse resulting from this use, including waste materials, garbage, and rubbish of all kinds in the following manner: In accordance with current Idaho County policies or regulations.

24. Sanitation. The operation and maintenance of all sanitation, food service, and water-supply methods, systems and facilities shall comply with the standards of the local department of health and the United States Public health Service.

25. Electrical Wiring. All electrical equipment and facilities installed and operated shall conform to the National Electric Code, and the equipment must have been approved by the ~~AMERICAN INSURANCE ASSOCIATION~~ *OK 1/4/87*

26. Fire Equipment. The holder shall install fire extinguishers and firefighting apparatus of types, of capacities, in numbers, and at locations approved by the authorized officer. This equipment shall be in readiness at all times for immediate use, and shall be tested each year, at such times as may be required by the authorized officer.

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SEP 14 1989

TENURE, TERMINATION, SUSPENSION AND LIMITS OF USE

27. Long-term Use. Unless sooner terminated or revoked by the authorized officer, in accordance with the provisions of the authorization, this authorization shall expire and become void on January 1, 2007, but a new special-use authorization to occupy and use the same National Forest System land may be granted provided the holder will comply with the then-existing laws and regulations governing the occupancy and use of National Forest lands and shall have notified the authorized officer not less than one (1) year prior to said date that such new authorization is desired.

28. Periodic Revision. The terms and conditions of this authorization shall be subject to revision in the years 1992, 1997, and 2002 to reflect changing times and conditions.

29. Performance by Holder, Successors, or Assigns. Notwithstanding the expiration or any renewal of this permit or its earlier relinquishment, abandonment, or other termination, the provisions of this permit, to the extent applicable, shall continue in effect and shall be binding on the holder, successors, or assigns, until they have fully performed their respective obligations and liabilities accruing before or on account of the expiration, or prior termination, of the permit.

30. Performance by Other Than Holder. The acquisition or assumption by another party under an agreement with the holder of any right or obligation of the holder under this permit shall be ineffective as to the Forest Service unless and until signed by the authorized Forest officer. A subsequent acquisition or assumption shall not:

- (1) Operate to relieve the holder of the responsibilities or liabilities they have assumed hereunder, or
- (2) Be given unless such other party
 - (a) Is acceptable to the Forest Service as a holder, and assumes in writing all of the obligations to the Forest Service under the terms of this permit as to the incomplete portion thereof, or
 - (b) Acquires the rights in trust as security and subject to such conditions as may be necessary for the protection of the public interests.

OPERATIONS, ACTIVITIES AND SERVICES

31. Signs. No signs or advertising devices shall be erected on the area covered by this permit, or highways leading thereto, without prior approval by the Forest Service as to location, design, size, color and message. Erected signs shall be maintained or renewed as necessary to neat and presentable standards, as determined by the Forest Service.

32. Subleasing, Requirements. The holder, in the exercise of the privileges granted by this permit, shall require that employees, sublessees, contractors, subcontractors, or renters and their employees comply with all applicable conditions of this permit and that the conditions of this permit be made a part of all subleases, contracts, subcontracts, or rental agreements. This clause shall not be construed as authorizing such subleases, contracts, subcontracts, or rental agreements unless specifically authorized elsewhere in the permit.

33. Nonexclusive Use. This permit is not exclusive; that is, the Forest Service reserves the right to use or permit others to use any part of the permitted area for any purpose, provided such use does not interfere with the rights and privileges of the permit holder.

35. Site Plan. buildings

DEVELOPMENT, CONSTRUCTION AND MAINTENANCE

MICROFILMED

SEP 14 1989

33. Nonexclusive Use. reserves the right to use or permit others to use any purpose, provided such use does not interfere with the rights and privileges authorized.

DEVELOPMENT, CONSTRUCTION AND MAINTENANCE

35. Site Plan. The holder shall prepare site plans to show the location of all buildings, service areas, roads, and structures. Such plan shall be on a scale of 1" = 40 feet with 1 foot contour intervals. The holder is encouraged to consult with the authorized officer during the preparation of the site plan to ensure that it is adequate and to gain multiple-use compliance. No construction shall be undertaken by the holder prior to site plan approval.

36. Site Grading Plans. The holder shall prepare grading plans, profiles and cross-sections to show precise elevations, excavations, and other details related to the installation of buildings, structures, or improvements on the permitted-use area. Such plans shall include provisions for drainage, retaining structures, seeding, and planting, to be made for the prevention and control of erosion on the permitted area and the National Forest lands adjacent to the permitted area, insofar as the latter may be influenced by the permitted use.

37. Site Planting Plans. The holder shall submit plans to reasonably restore or protect all areas disturbed during construction. Such plans will identify plant material by botanical name, size, and location. Each stage of construction will be considered complete only upon completion and acceptance of the successful seeding and planting in the vicinity of construction. All seeding and planting required on the permitted area shall be completed according to the development schedule.

38. Plan, Map, and Specification Language. All plans, maps, and specifications shall be written in English and shall use American standards of measurement.

39. Site Development Plans. This permit is contingent upon the installation layout and development plans as submitted by the holder and approved as a part of this permit for this specific location. Any and all subsequent relocations, alternations, revisions, additions, construction, or reconstruction of housing and mounting facilities, including antenna towers or masts, shall require advance notification and approval of the Forest Service and advance modification of this permit.

40. Environmental Standards. Holder shall conduct all activities associated with the water diversion, weir, and rearing pond in a manner that will avoid or minimize degradation of air, land, and water quality. In the construction, operation, maintenance, and termination of the water diversion, weir, and rearing pond, holder shall perform its activities in accordance with applicable air and water quality standards, related facility siting standards, and related plans of implementation, including but not limited to standards adopted pursuant to the Clean Air Act, as amended (42 USC 1857) and the Federal Water Pollution Control Act, as amended (33 USC 1321).

41. Implied Permission. Nothing in this authorization shall be construed to imply permission to use the area for any purpose nor to build or maintain any structure or facility not specifically named on the face of this special-use permit or listed herein, or approved by the Forest Service in the form of construction plans and an authorization amendment or a new special-use permit.

RESOURCE PROTECTION

42. Esthetics. The holder shall protect the scenic esthetic values of the area under this permit, and the adjacent land, as far as possible with the improvements, during construction, operation, and maintenance of the improvements.

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43. Revegetation, Surface Restoration of Ground Cover. Holder shall be responsible for prevention and control of soil erosion and gullyng on lands covered by this permit and adjacent thereto, resulting from construction, operation, maintenance, and termination of the permitted use. Holder shall so construct, operation, maintenance, and termination of the permitted use. Holder shall so construct permitted improvements to avoid the accumulation of excessive heads of water and to avoid encroachment on streams. Holder shall revegetate or otherwise stabilize all ground where the soil has been exposed and shall construct and maintain necessary preventive measures to supplement the vegetation.

44. Pesticide Use. Pesticides may not be used to control undesirable woody and herbaceous vegetation, aquatic plants, insects, rodents, trash fish, etc., without the prior written approval of the Forest Service. A request for approval of planned uses of pesticides will be submitted annually by the holder on the due date established by the authorized officer. The report will cover a 12-month period of planned use beginning 3 months after the reporting date. Information essential for review will be provided in the form specified. Exceptions to this schedule may be allowed, subject to emergency request and approval, only when unexpected outbreaks of pests require control measures which were not anticipated at the time an annual report was submitted.

Only those materials registered by the U.S. Environmental Protection Agency for the specific purpose planned will be considered for use on National Forest System lands. Label instructions will be strictly followed in the application of pesticides and disposal of excess materials and containers.

45. Archeological-Paleontological Discoveries. If, prior to or during excavation work, items of archaeological, paleontological, or historic value are reported or discovered, or an unknown deposit of such items is disturbed, the holder will immediately cease excavation in the area so affected. Holder will then notify the Forest Service and will not resume excavation until written approval is given by the authorized officer.

If it deems it necessary or desirable, the Forest Service may require the holder to have performed recovery, excavation, and preservation of the site and its artifacts at the holder's expense.

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FINDINGS OF NO SIGNIFICANT IMPACT
RESTORED FISH HATCHERY PROJECT

LOWER SNAKE RIVER
FISH AND WILDLIFE COMPENSATION PLAN
CLEARWATER HATCHERY SATELLITE FACILITIES
CROOKED RIVER FACILITY

U.S. Dept. of Agriculture
Forest Service

Tract R
12.27 Acres±

Description of Tract

Parcel 1

A parcel of land lying in unsurveyed Section 25, Township 29 North, Range 7 East of the Boise Meridian, Idaho County, State of Idaho, being more particularly described as follows:

Commencing at the northwest corner of Section 30, Township 29 North, Range 8 East of the Boise Meridian;

thence South 0° 16' 39" West, a distance of 2,879.37 feet to the POINT OF BEGINNING;

thence South 3° 14' 35" East, a distance of 370.26 feet;

thence WEST, a distance of 215 feet;

thence SOUTH, a distance of 460 feet;

thence North 67° 14' 57" West, a distance of 168.08 feet;

thence North 51° 50' 34" West, a distance of 89.02 feet;

thence North 9° 27' 44" West, a distance of 91.24 feet;

thence North 30° 15' 23" East, a distance of 138.92 feet;

thence North 52° 25' 53" East, a distance of 82.01 feet;

thence North 3° 34' 35" West, a distance of 80.16 feet;

thence North 23° 44' 58" West, a distance of 136.56 feet;

thence North 4° 45' 49" West, a distance of 120.42 feet;

thence North 71° 20' 08" East, a distance of 389.54 feet to the point of beginning.

The parcel of land above described contains 4.34 acres, more or less.

NOTE: Bearings and distances cited in Parcel 1 are based on a local grid coordinate system established by the U.S. Army Corps of Engineers. The point of said local grid system is a U.S. Army Corps of Engineers Monument "CRHP-1-84", grid coordinates being y, North 10,000 feet and x, East 10,000 feet.

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EXHIBIT "B"

Parcel 2
Freehold

A parcel of land located on the left (west) bank of the Crooked River, westerly of County Road No. 121, in the projected northeast quarter of unsurveyed Section 36, Township 28 North, Range 7 East of the Boise Meridian, Idaho County, State of Idaho, more particularly described as follows:

Commencing at a U.S. Army Corps of Engineers Survey Monument marked "85-95-1", the local grid coordinates of said monument being y, North 13,096.82 feet and x, East 12,311.12 feet;

thence South $89^{\circ} 34' 04''$ West, a distance of 189.13 feet to the POINT OF BEGINNING;

thence EAST, a distance of 80 feet;

thence SOUTH, a distance of 50 feet;

thence WEST, a distance of 80 feet;

thence NORTH, a distance of 50 feet to the point of beginning.

There is EXCEPTED therefrom all that part of the above described parcel 2 lying within the right-of-way of said County Road No. 121.

The parcel of land above described contains 0.09 of an acre, more or less.

NOTE: Bearings and distances cited in description of Parcel 2 is based on a local grid coordinate system established by the U.S. Army Corps of Engineers. The point of origin of said local grid system is U.S. Army Corps of Engineers Monument marked "CRH-1", grid coordinates being y, North 10,000 feet and x, East 10,000 feet.

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EXHIBIT "B"

**Parcel 2
Accretion Facility**

A parcel of land located on the left (west) bank of the Crooked River, easterly of Forest Road No. 233 (County Road No. 121), north of the Orogrande Landing Strip, in the projected unsurveyed Section 30, Township 28 North, Range 8 East of the Boise Meridian, Idaho County, State of Idaho, more particularly described as follows:

Beginning at a point, which is located on north (downstream) end of the Orogrande Landing Strip. Said point is a U.S. Army Corps of Engineers monument marked "86-26-3", the local grid coordinates of said monument being Y, North 16,131.327 feet and X, East 14,137.709 feet;

thence South $61^{\circ} 31' 33''$ East, a distance of 139.12 feet to a point lying on the thread of the stream on the Crooked River;

thence North $1^{\circ} 19' 56''$ East, a distance of 86.02 feet to a point lying on the thread of the stream of said river;

thence North $24^{\circ} 26' 38''$ East, a distance of 24.17 feet to a point lying on the thread of the stream of said river;

thence North $44^{\circ} 01' 04''$ East, a distance of 495.05 feet to a point lying on the thread of the stream of said river;

thence North $22^{\circ} 46' 57''$ East, a distance of 54.23 feet to a point lying on the thread of the stream of said river;

thence North $0^{\circ} 47' 45''$ West, a distance of 72.01 feet to a point lying on the thread of the stream of said river;

thence North $16^{\circ} 27' 36''$ West, a distance of 91.76 feet to a point lying on the thread of the stream of said river;

thence North $3^{\circ} 54' 02''$ East, a distance of 44.10 feet to a point lying on the thread of the stream of said river;

thence North $7^{\circ} 55' 58''$ East, a distance of 123.18 feet to a point lying on the thread of the stream of said river;

thence South $90^{\circ} 00' 00''$ West, a distance of 455.00 feet to a point lying on the Easterly edge of Forest Road No. 233 (County Road No. 122);

thence South $35^{\circ} 40' 07''$ West, a distance of 152.63 feet to a point lying on the Easterly edge of said road;

thence South $20^{\circ} 22' 35''$ West, a distance of 37.34 feet to a point lying on the Easterly edge of said road;

thence South $1^{\circ} 35' 28''$ West, a distance of 36.01 feet to a point lying on the Easterly edge of said road;

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EXHIBIT

Parcel 3
Acclimation Facility

thence South 11° 40' 25" East, a distance of 123.56 feet to a point lying on the Easterly edge of said road;

thence South 8° 07' 48" East, a distance of 77.78 feet to a point lying on the Easterly edge of said road;

thence South 2° 07' 16" West, a distance of 81.06 feet to a point lying on the Easterly edge of said road;

thence South 4° 14' 11" West, a distance of 54.15 feet to a point lying on the Easterly edge of said road;

thence South 17° 02' 16" West, a distance of 64.85 feet to a point lying on the Easterly edge of said road;

thence South 30° 06' 49" West, a distance of 57.80 feet to a point lying on the Easterly edge of said road;

thence South 40° 21' 52" West, a distance of 26.25 feet to a point lying on the Easterly edge of said road;

thence South 24° 28' 11" West, a distance of 51.56 feet to a point lying on the Easterly edge of said road;

thence South 61° 31' 33" East, a distance of 140.00 feet to the point of beginning.

There is EXCEPTED therefrom all that part of the above described Parcel 3 lying within the right-of-way of said Forest Road No. 233 (County Road No. 122).

The parcel of land above described contain 7.85 acres, more or less. The total acreage in parcel 1, 2 and 3 comprising Tract R is 12.27 acres, more or less.

NOTE: Bearings and distances cited in description of Parcel 3 are based on a local grid coordinate system established by the U.S. Army Corps of Engineers. The point of origin of said local grid system is U.S. Army Corps of Engineers monument marked "CRH-1", grid coordinates begin Y, North 10,000 feet and X, East 10,000 feet.

CLW 17 Jan 86
Rev (1) CLW 13 Feb 86
Rev (2) REJ 9 Jan 87

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EXHIBIT "B"



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

June 15, 1995

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

RE: WATER RIGHT NO. 82-07186

Dear Water Right Holder(s):

Enclosed is a copy of the Water Right License issued on the above referenced permit. If you have any questions, please contact me within 10 days of receipt of this license.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosure

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JUN 30 1995

M E M O R A N D U M

DATE: June 13, 1995

TO: File 82-07186

FROM: Shelley W. Keen *SWK*

RE: Diversion Rate

=====

Amended Permit No. 82-07186 authorizes a diversion rate from the Crooked River of 10.0 cfs from 3/1 to 7/31 and a diversion rate of 8.0 cfs from 8/1 to 10/20. The field examiner verified a flow of 6.68 cfs in August of 1991. August is a low flow month, and 1991 was a drought year in most of Idaho. Therefore, limiting the license to 6.68 cfs may not reflect the actual diversion capacity of this system.

To get a better picture of the system, I obtained a copy of the U.S. Army Corps of Engineers design memorandum from the Dept. of Fish and Game. The design memorandum shows that the system was designed to carry 11.0 cfs. Moreover, it contains a synthetic (theoretical) hydrograph indicating that the Crooked River has a late season (July through September) projected minimum flow of 33 cfs.

Due to the remote location of the facility, I think taking an additional measurement to verify the 10.0 cfs flow would be impractical. The design of the system supports a theoretical capacity of 11.0 cfs, and water is apparently available to fill the right without drying up the natural channel. Therefore, I propose licensing this right for the permitted rates.

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MEMORANDUM

TO: File 82-07186
FROM: Brenda Chapman
DATE: June 2, 1995
RE: Rate Recommendation

=====

The recommendation to allow the higher rate of flow of 10 cfs is being made based upon information submitted to us on the facility design structure. The structure was designed to accommodate and function on a 11 cfs rate of flow. Since the exam measurement was done in August, a low flow period, the amendment request and subsequent license for 10 cfs are both being submitted for approval.

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I N T E R

O F F I C E

MEMO

To: Brenda Chapman, Idaho Department of Water Resources
From: *Cindy* Cindy Robertson, Idaho Department of Fish and Game
Subject: Water Right Permit no. 82-07186
Date: May 26, 1995

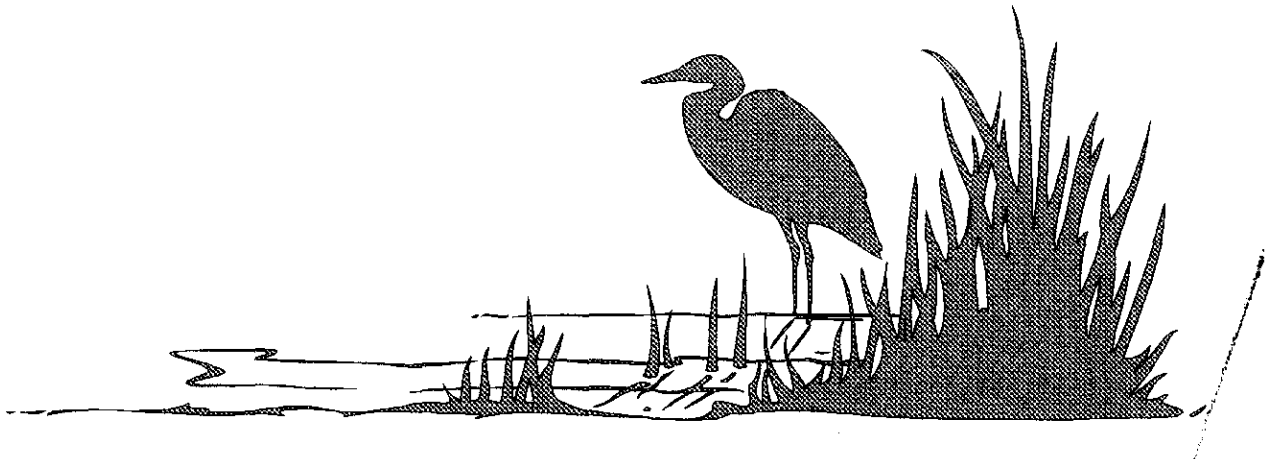
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MAY 30 1995

Department of Water Resources

Brenda:

I have enclosed copies of the design memorandum narrative and a copy of the engineering drawings for the above-referenced water right permit. If you have any additional questions or information needs, please contact me at 334-2597.



JUN 30 1995



US Army Corps
of Engineers
Walla Walla District

41

Lower Snake River Fish and Wildlife Compensation

Red River and Crooked River Satellite Facilities

Design Memorandum No. 100

Revised December 1987

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Its contents are not to be used for AD-
VERTISING, PUBLICATION, OR PRO-
MOTIONAL PURPOSES.**

**UNCLASSIFIED
JUN 30 1995**

SECTION 3 - HYDROLOGY AND RIVER HYDRAULIC INVESTIGATIONS

3.01. INTRODUCTION.

This section consists of the report of investigation conducted to determine the general hydrology and hydraulics expected in the Crooked River and Red River in the South Fork Clearwater River watershed in the Clearwater River drainage area of the Snake River Basin near Elk City, Idaho County, Idaho, shown in Exhibit 3-1 as related to the design and operation of the satellite facilities.

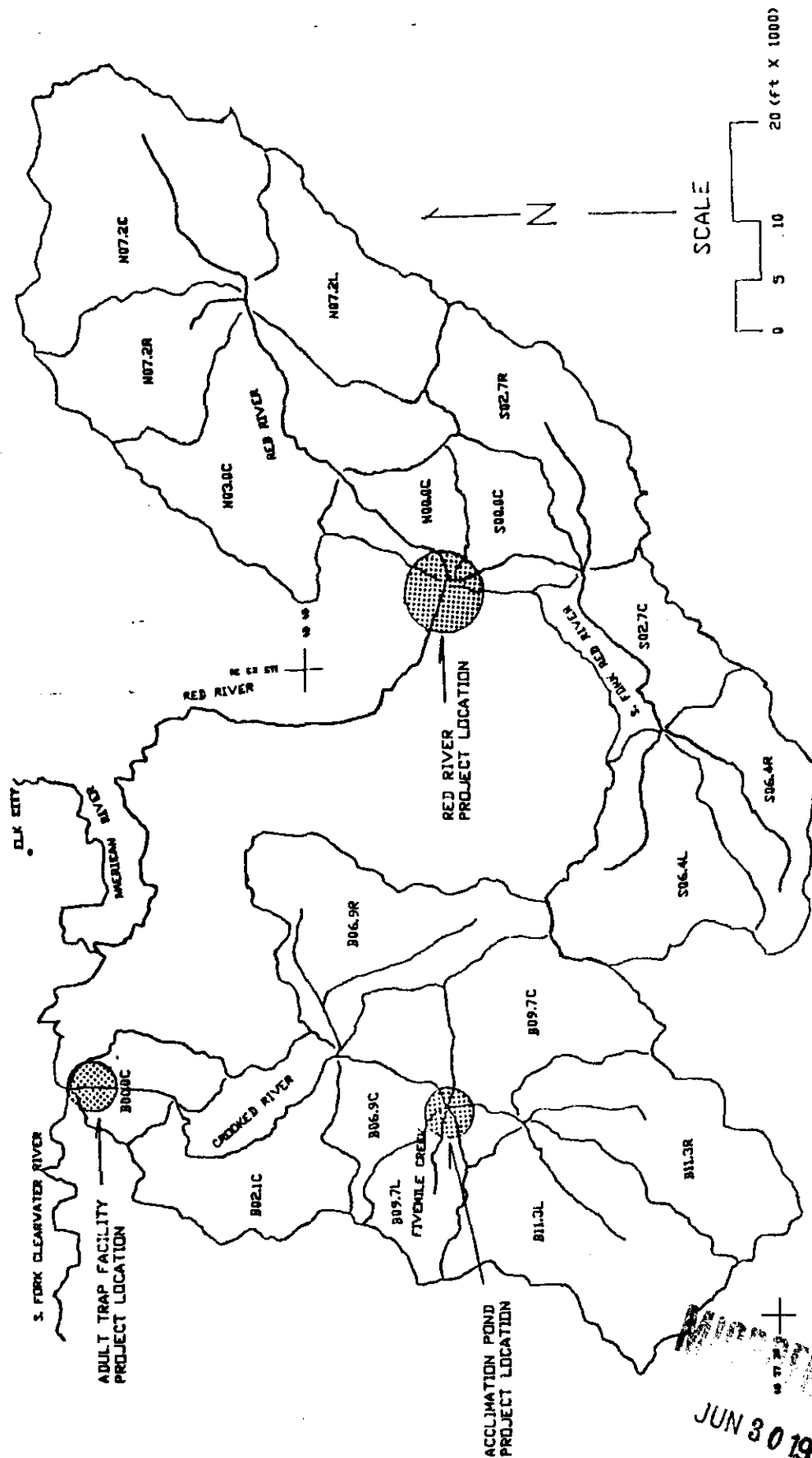
3.02. STUDY OBJECTIVES AND METHODS.

a. The primary objective of this section is to evaluate the hydrology of the Crooked River and the Red River to establish discharges expected in peak-flow events, as well as to determine expected low flows in order to determine the channel and floodplain hydraulics for design and operational parameters of the structures and appurtenances of the new facilities. The Crooked River is studied from approximate stream stations 2+00 to 22+30 at the adult trap facilities near river mile 0.4 and upstream for approximately 0.25 miles at the rearing/acclimation ponds near river mile 10.0. The Red River is studied from approximate stream stations 767+00 to 797+27 and along the South Fork Red River from approximate stream stations 0+00 to 9+86 for the adult holding ponds near Red River mile 15.0, which is approximate mile 0.0 of the South Fork Red River; total hydraulic study reaches of approximately 0.6 mile on the Crooked River and 0.76 mile on the Red River. Further, it is the objective of this study to identify mitigative measures which may be designed into the facilities to prevent or minimize adverse hydraulic impacts related to installation of the new facilities in the channels and floodplains of the respective rivers. There is no effective Flood Insurance Study (FIS) of the Crooked River, nor of the Red River, in the project reaches.

b. The methods used in this report are standard engineering practice for studies of this type. The hydrology is developed using the methodology of the USDA Soil Conservation Service (SCS) as applied in the HEC-1 generalized computer program "Flood Hydrograph Package," October 1984 version, by the CE Hydrologic Engineering Center, Davis, California. Statistical evaluations of available streamflow records are utilized in determination of low flow estimates and in calibration of the hydrograph model for peak flow events using the HEC Flood Flow Frequency Analysis 723-X6-L7550 computer program, as well as several proprietary programs and the USGS Open File Report 81-909. Hydraulics are established using the methods of the "HEC-2 Water Surface Profiles" computer model also developed by the Hydrologic Engineering Center in Davis, California.

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WATERSHED MAP



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1984 update. Other publications utilized in this section are referenced in the text of the report and are listed in paragraph 3.05. "Bibliography." Existing channel cross sections are based on topographic surveys and field measurements provided by the CE Walla Walla District as augmented by additional field surveys and site visits by FPI. Design and operational considerations for the new facilities incorporate configurations and structures developed in coordination with personnel for the CE, Idaho Department of Fish and Game (IDFG), and the USFS.

3.03. PROJECT DESCRIPTION.

a. General.

The Red River and Crooked River satellite facilities project construction will include work within the floodplain and floodway of the main stem of the Red River, within the South Fork of the Red River, and within the Crooked River at two locations. Work is to include cuts and fills to provide desired slopes and positive drainage at the site as well as channel improvements to install facilities, to align and transition the channel into and out of those new facilities, and to provide for stream protection as required. The intent of the project is not to remove land from the floodplain or to alter the channel morphology, except to the limited extent required to meet necessary operational parameters.

b. Red River Adult Facility.

The Red River facility is described in detail in Section 7, "Hydraulic Design, Water Supply, and Wastewater - Red River Adult Facility." New facilities instream and within the existing 100-year floodplain include a river intake on the South Fork Red River at approximate stream station 6+51 to replace an existing structure; and, at approximate Red River main stem stream station 782+00, a fish diversion structure including fish ladder, fish trap and holding ponds, and appurtenant works.

c. Crooked River Adult Facility.

The Crooked River adult facility is described in detail in Section 8. New facilities instream and within the existing 100-year floodplain at this site include a new river intake on the Crooked River at approximate stream station 22+30; and at approximate Crooked River stream station 15+50, a fish diversion structure including fish ladder, fish trap, and appurtenant works.

d. Crooked River Rearing/Acclimation Pond.

The Crooked River rearing pond facility is described in detail in Section 9. The rearing pond site is located upstream of the Crooked River adult facility, near river mile point 9.0. New facilities instream and within the existing 100-year floodplain include a new river intake structure and construction of new acclimation ponds within an existing placer mined excavation approximately 1 mile downstream of the confluence of Crooked River with Fivemile Creek.

3.04. CLIMATOLOGY AND DISCHARGE DETERMINATIONS.

a. The study areas of the Crooked River and Red River of the South Fork Clearwater River watershed are located in the Nez Perce National Forest in central Idaho County in northcentral Idaho. The climatology of this region of Idaho is, in general, temperate with extremes in variation. Winters are cold with deep snowpacks which provide much of the later season runoff. Mean annual rainfall varies considerably from year to year with an average at Dixie, near the upper watershed divide of the Crooked River, of 30.96 inches. The U.S. NOAA "Rainfall Frequency Atlas of the United States - Atlas 2, Volume V - Idaho" (see Table 3-1) indicates a 100-year frequency, 6-hour duration precipitation for the area of approximately 1.9 inches, and of approximately 3.2 inches for the 100-year, 24-hour duration precipitation. Regional snowfall and snowmelt also vary greatly from year to year and are considered a significant source of annual runoff, with an average annual seasonal snowfall of approximately 57 inches at Grangeville. Temperatures range from extreme highs in the 90's in the summer months to extreme lows of below zero in midwinter.

TABLE 3-1

6-Hour and 24-Hour Precipitation Data
Dixie, Idaho

<u>Frequency (year)</u>	<u>Precipitation (inches)</u>	
	<u>6-Hour</u>	<u>24-Hour</u>
2	.9	1.5
5	1.1	1.9
10	1.3	2.3
25	1.5	2.7
50		2.9
100	1.9	3.2

Source: NOAA Atlas 2, Volume V, Idaho

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b. The most accurate method of determining runoff peaks and frequencies is to review a long historical record of measured flows. Rarely is there any such record, and such is the case for the Crooked River and Red River study area. There are, however, various periods of record from gauging stations at the following locations:

(1) Clearwater River near Elk City for the period from 1945 to 1974 with sporadic measurements subsequently.

(2) Crooked River near Orogrande, partial water year 1980.

(3) South Fork Red River near Red River Ranger Station, water years 1979, 1980, 1981, and 1982.

(4) Main stem Red River near Red River Ranger Station, water years 1979, 1980, 1981, and 1982.

c. From these data and from an evaluation of other regional data, it can be seen that for the three seasonal periods examined in this study, the peak flows will occur in the "early season," that season for which it is desirable to operate the new facilities for steelhead trout (April through mid-May); with 97 percent of all annual peaks falling in the period from April through June. The "late season," that season for which it is desirable to operate the new facilities for chinook salmon (June through August), does include approximately 17 percent of the historical annual low flow events, specifically, the month of August. The third season, or the months from September through March, includes many annual low flow events in the data from the Clearwater River station which, for this 6-month period from August through January, includes 97 percent of all annual low flow events. In the site specific streamflow data, only 1 year of data exists at the Crooked River station, and these do not include measurements in the month of October. The data from the two stations at the Red River site do not include any measurements in the seasonal time period extending from October through March, with only partial records in April. Because of the paucity of data, the Crooked River/Red River maximum, average, and low seasonal flows of the HEC-2 models of this study are simply the arithmetic means of those available site data. To determine the peak event design discharge, the SCS-based methodology, as utilized in the HEC-1 generalized computer model, "Flood Hydrograph Package," was used in this study and is frequently utilized as the basis of development of a synthetic hydrograph to estimate peak discharges on streams in an ungauged watershed. To assist in determinations of the likelihood of any particular discharge being equaled or exceeded at the study sites in the early and late seasons of operation, seasonal discharge curves have been constructed for maximum, minimum, and average discharges for various recurrence intervals based on the available site data. The curves are constructed using an extreme value

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series for the seasonal data and determining the probabilities for a given discharge from the extreme value Type I (Gumbel) distribution. Those data are then plotted as curves best fit to a logarithmic equation and presented as Exhibits 1 through 8, respectively, for the early seasonal and late seasonal flows at each of four locations. The equations for those curves are presented in Table 3-2; it is to be emphasized that the seasonal flows and equations are based on the use of extreme values over a short time period which are autocorrelated and, therefore, large deviations from the predicted discharges are possible, particularly at the 95-percent confidence level for return periods of longer than 10 years.

TABLE 3-2

Regression Equations
 $Q = A + B \ln (Tr) \quad (1)$
 Seasonal Discharge/Recurrence Interval
 Crooked River/Red River Satellite Facilities

Location Coef. (2)	Early Season (3)			Late Season (3)		
	Max	Ave	Min	Max	Ave	Min
RR (14.8) A =	157.05	160.39	77.72	203.36	13.54	53.01
B =	396.66	170.63	71.64	202.63	246.11	45.06
SFRR (0.1) A =	67.85	69.29	33.58	87.86	35.64	22.90
B =	171.37	73.72	30.95	87.54	22.64	19.47
CR (0.4) A =	112.79	115.18	55.82	146.04	59.24	38.07
B =	284.86	112.54	51.45	145.52	37.64	32.36
CR (9.5) A =	54.74	55.90	27.09	70.85	28.75	18.48
B =	138.25	59.47	24.97	70.63	18.27	15.71

Notes: (1) Logarithmic regression equation for discharge (Q), given a recurrence interval (Tr), using the regression constants A and B for the seasons shown.

(2) Location given by river mile of stream; e.g., RR (14.8) is Red River at milepoint 14.8. SFRR is South Fork Red River, CR is Crooked River.

(3) "Early Season" is the period from April through June; "Late Season" is the period from July through September, with operational overlaps in May through July.

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d. The synthetic hydrograph methods for the 100-year peak discharges are based on watershed characteristics of the lower Crooked River and Red River drainage areas. The resulting discharges compare favorably with discharges from regional watersheds with similar characteristics for which discharges are tabulated by Kjelstrom and Moffatt (1981). The Crooked River rearing pond 100-year peak discharge was determined by the USGS method. The following sections further discuss the synthetic hydrograph evaluations of this study.

e. Watershed Characteristics.

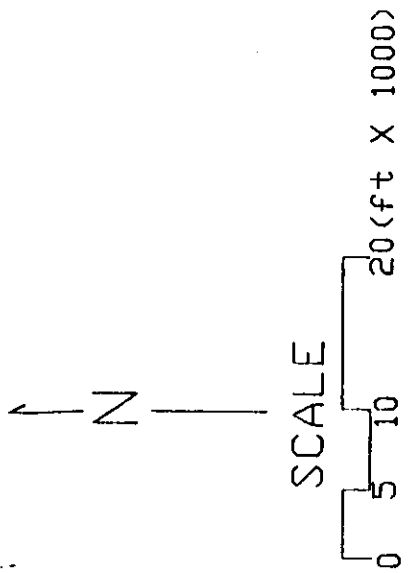
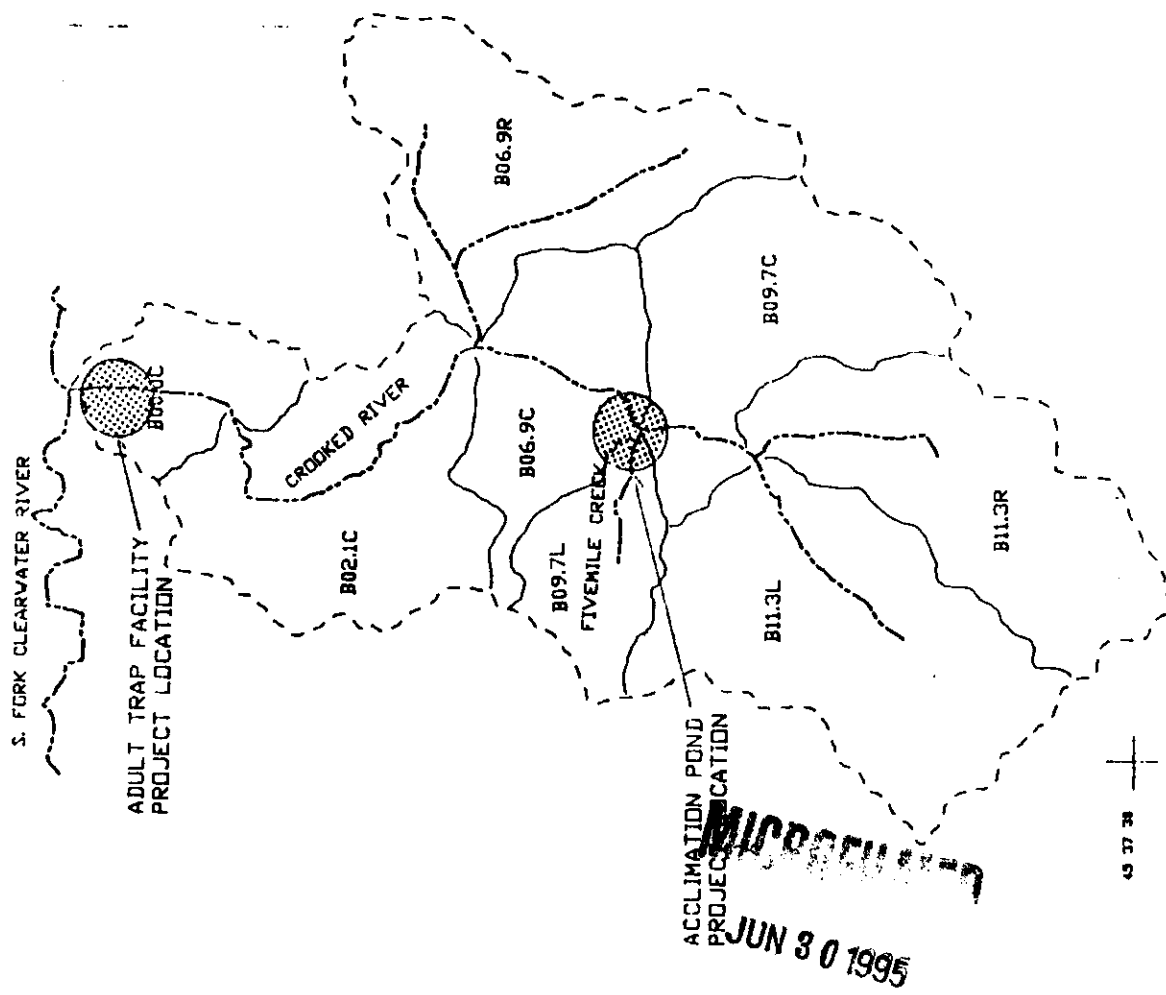
(1) The Crooked River watershed at the confluence with the South Fork Clearwater River is approximately 73.9 square miles in extent. Upstream, at the rearing/acclimation ponds, the watershed of Crooked River is approximately 42.2 square miles. The Red River watershed downstream of the confluence with the South Fork Red River is approximately 103.0 square miles in extent, with the South Fork subarea forming 44.5 square miles of the total area. To determine discharges for this study, the Crooked River watershed has been divided into eight subareas located along the main stem of the river, and the Red River divided into five subareas in the South Fork watershed and five subareas in the main stem as shown in the watershed map Exhibits 3-2 and 3-3, respectively. Overall basin heights are approximately 4,000, 3,000, and 2,200 feet and hydraulic lengths of 17, 12, and 13 miles, respectively, on the Crooked River, South Fork Red River, and main stem of the Red River.

(2) The entire watersheds are in 95 percent to 100 percent forest cover with soils generally in the Jughandle loam series classified as hydrologic group "B," meaning soils having high to moderate infiltration rates and, therefore, low to moderate runoff rates. These overall characteristics combine to yield SCS curve numbers (CN) for the subareas of 60 and estimated lag times ranging from 1.2 hours to 2.2 hours between the center of mass of rainfall excess and the peak of the SCS unit hydrograph. Routing is by normal depth channel routing using cross section data of the field surveys and as interpolated from USGS topographic maps. Rainfall distribution is for a Type II SCS 100-year storm event using ratios based on NOAA Atlas 2 (1973) for determining the 2-year, 5-year, and 25-year discharges, as well as the 100-year discharge. Areal adjustment of point rainfall is based on nomographs of the SCS.

f. Discharges.

(1) Using the watershed characteristics noted above, the snowmelt equations of the CE (1956) and the precipitation hyetographs of NOAA Atlas 2, the 100-year recurrence interval peak discharge in the Crooked River at the adult trap can be expected to be approximately 1,870 cfs based on the synthetic hydrograph methods of the HEC-1 model. For comparison, peak discharges from Idaho watersheds of similar

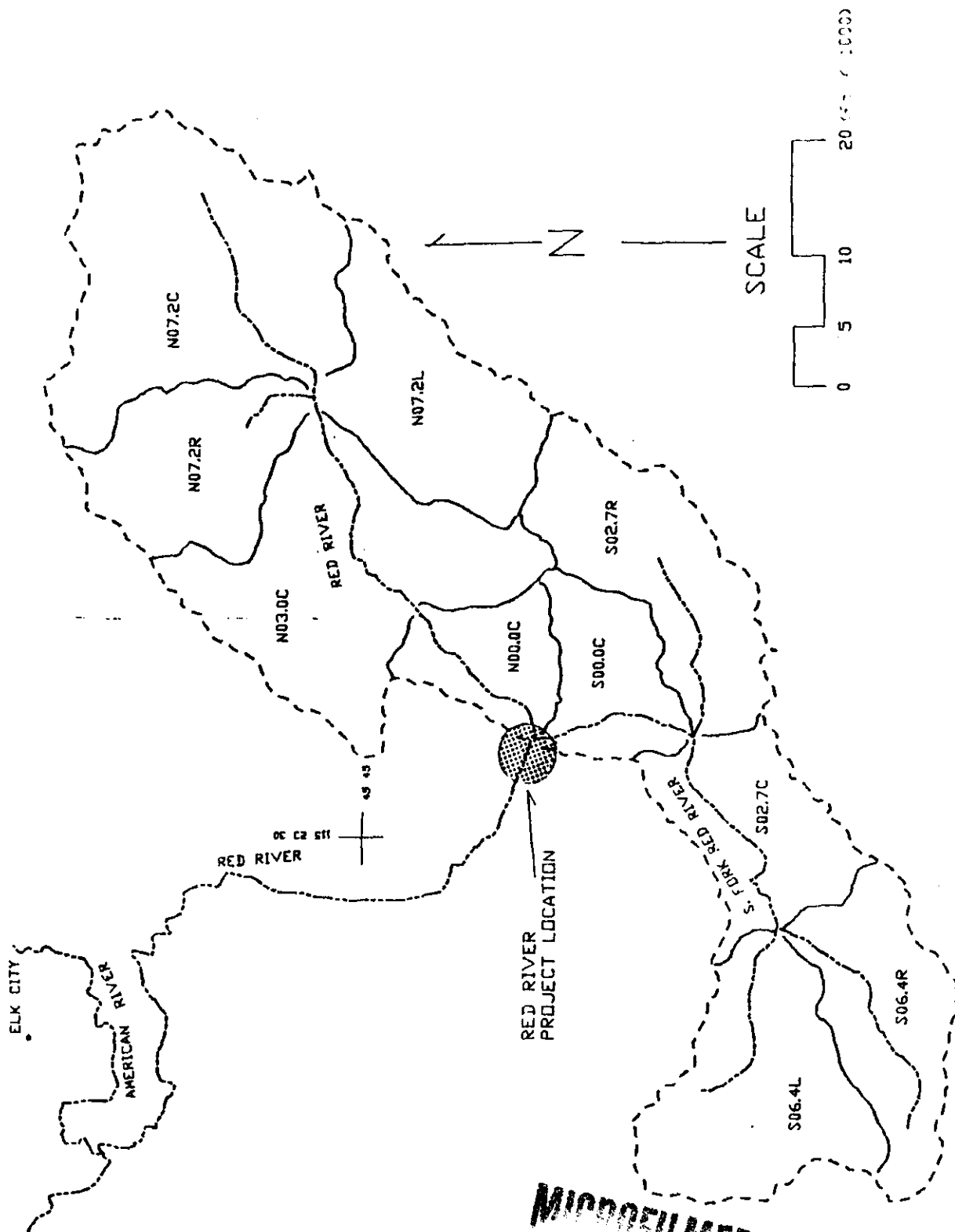
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CROOKED RIVER SUBWATERSHED

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RED RIVER SUBWATERSHED

basin characteristics were plotted, as shown in Exhibit 9, to determine a relationship between discharge and watershed area. In general, the larger the watershed, the smaller the expected discharge on a per-mile basis, usually expressed as csm (cfs/square mile). The best fit curve to the available data would predict a 100-year recurrence interval discharge at the adult trap location of Crooked River of approximately 22 csm, or 1,627 cfs, approximately 13 percent lower than the model results. Within the limited available data, these results are considered conservative and acceptable for utilization as the basis of the upper design limits. Peak flows from the HEC-1 model results, as rounded for use at each stream station of the HEC-2 water surface profile model, are tabulated for the 100-year recurrence interval discharges in Table 3-3 along with the expected (2.33-year recurrence interval) seasonal high, average, and low flows.

TABLE 3-3

Design Discharges
Crooked River/Red River Satellite Facilities

Season (2)	Location (1)			
	RR (14.8)	SFRR (0.1)	CR (0.4)	CR (9.5)
Early - Max	642	277	461	250
Early - Ave	377	163	271	147
Early - Min	183	79	131	71
Late - Max	370	160	265	144
Late - Ave	133	58	96	52
Late - Min	105	45	75	41
.....				
Return Period (3)				
.....				
100-Year	2,760	1,300	1,870	1,370
2.33 Min	85	37	61	33

Notes: (1) Location is by river mile of stream; e.g., RR (14.8) is discharge in the Red River at mile 14.8. SFRR is South Fork Red River; CR is Crooked River.

(2) Seasonal mean discharges for maximum, average, and minimum in April through June, "Early," and July through September, "Late," seasons. Operational seasons overlap in May through July.

(3) Peak design discharges of 100-year recurrence interval are from HEC-1 computer model synthetic hydrograph and minimum average annual flow is from Type I external value series of regionalized data.

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(2) The 100-year peak discharge at the Crooked River rearing pond site was determined using the USGS Open File Report 81-900 "A Method of Estimating Flood-Frequency Parameters for Streams in Idaho" dated September 1981. This procedure utilizes regression equations which relate flows to mean annual precipitation, drainage area, mean basin altitude and stream slope. The parameters used at the Crooked River rearing pond site are: (a) mean annual precipitation, 30.3 inches; (b) drainage area, 42.2 square miles; (c) mean basin altitude, 6,310 feet mean sea level; and (d) stream slope, 173 feet per mile. The mean logarithm and standard deviation computed using the above parameters in the regression equations are 2.7922 and 0.1635, respectively. The skew coefficient used in computing the frequency curve for the rearing pond site is -.3 as recommended in the USGS Open File Report 81-909. The annual peak discharge frequency curve is shown on Chart 1 and tabulated in Table 3-4.

TABLE 3-4

Annual Peak Discharge

<u>Average Recurrence Interval</u>	<u>Exceedence Probability (percent)</u>	<u>Discharge (cfs)</u>
2	50	630
5	20	855
10	10	990
25	4	1,150
50	2	1,260
100	1	1,370
500	0.2	1,600

3.05. EXISTING CHANNEL HYDRAULICS.

a. The existing channels of the Crooked River and Red River consist of both disturbed and natural channel segments in the full study reaches. There are four channel structures within the Red River study area: a footbridge, an entrance road bridge, and two highway bridges. In addition, there are small artificial barriers on the South Fork of the Red River upstream of the footbridge. The channels were surveyed for several hundred feet upstream and downstream of the new facility locations, as noted earlier. The resulting field data were combined with appropriate discharges of the HEC-1 models to establish an HEC-2 existing conditions computer model of each of the study segments. Starting water

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surface elevations are based on the rating curves developed for the downstream cross section of each model. Manning's "n" values selected for the study segment include 0.07 to 0.08 in the overbank areas and 0.045 for channel areas of both Crooked River sites and 0.07 to 0.09 in the overbanks and 0.045 in the channels at the Red River facilities locations. These values are based on field observations felt to be representative of the variations which can be expected in this study reach, depending on time of year and discharge. A recent comparison of channel "n" values in mountainous streams included in "Open Channel Hydraulics," French (1985), indicates values in this range are verifiable.

b. The existing conditions are displayed in the aerial photographs and topographic map for each location as shown in Exhibits 10, 11, and 12, respectively, for the Red River adult trap, crooked River adult trap, and Crooked River rearing/acclimation pond sites which also depict the location of cross sections utilized in the HEC-2 models. Post-construction conditions are depicted in Plates 5, 6, and 8 and Exhibit 12 which also indicate the 100-year recurrence interval inundation mapping. Water surface profiles are displayed for both existing conditions and for post-construction conditions as Exhibits 13, 14, 16, and 17.

c. Other pertinent data of the base models include existing conditions, by study reach, at each of the following locations and the expected inundation and water surface profiles:

(1) Crooked River.

Existing 100-year recurrence interval (base flood) channel velocities at the Crooked River adult facility location range from 8.6 fps at stream station 14+50 downstream of the proposed fish barrier to 4.8 fps at stream station 22+30 at the proposed intake structure location. Upstream at the Crooked River rearing pond site, velocities in the Crooked River are 8.3 fps in the vicinity of the intake structure location.

(2) Red River and South Fork Red River.

Existing base flood velocities at the Red River adult facility location near stream station 782+15 are 7.8 fps. Upstream at the intake structure on the South Fork of the Red River near stream station 6+51, base flood channel velocities range from 6.8 fps downstream of the intake to 7.6 fps approximately 335 feet upstream of the intake location; the base flood velocity is 10.3 fps at an assumed critical depth flow condition at the intake location itself.

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(3) Inundation and Water Surface Profiles.

In general, the flood levels will remain within the banks of the channels at all stream locations for the various seasonal flows evaluated. The 1 percent exceedence frequency flood will inundate areas of the overbanks in the low-lying areas of both the Crooked River and the Red River. Water surface profiles are plotted and shown as Exhibits 13, 14, 16, and 17 for the .01 exceedence probability, for the seasonal high flows, and for the annual low flow at each of four locations (Crooked River adult facility, Crooked River rearing pond, Red River adult facility, and Red River adult facility intake).

3.06. POST-CONSTRUCTION HYDRAULICS.

a. Channel Improvements and Structures.

(1) Improvements in the channels, as noted earlier, will only be as required for the installation of facilities and for the alignment and protection of the channel. At each of the fish diversion structures, the channel will be shaped to transition uniformly from the sill at the fish screens to meet the existing downstream section. At Crooked River, this downstream transition section is approximately 100 feet in length; at Red River the transition section is approximately 35 feet.

(2) The intake structures are to be placed in the channel thalweg with an almost imperceptible change in the existing cross section. Natural stone riprap will be placed to the limits shown in Plates 5 through 8 to protect and maintain the channel section and alignment. To evaluate the hydraulic impacts, Manning's "n" values assigned to various channel segments are unchanged from existing conditions because of the use of natural material. The single exception for variation of "n" value is at the sill position of each of the fish diversion structures which are assumed to have a post-construction operational "n" value of 0.025. Losses through the fish screens are modeled with expansion/contraction losses of 0.5/0.3, respectively, and by use of the SB card option to account for area, shape, obstruction, and orifice flow energy losses. The bridge decks are above the 100-year recurrence interval discharge water surface profile, with orifice flow conditions determined by the support beam which is shown in Plate 21.

(3) The sections which follow discuss site-specific hydraulic analyses. Comparison water surface profiles for the 100-year recurrence interval discharge for existing and post-construction conditions are displayed as Exhibits 18, 20, 21, and 22 to graphically depict the expected differences upstream and downstream of the completed projects.

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b. Crooked River Adult Facility.

(1) The adult facility site on the Crooked River will include, as noted earlier, a new river intake on the Crooked River at approximate stream station 22+30 and, at approximate Crooked River stream station 15+50, a fish diversion structure including fish ladder, fish trap, and appurtenant works.

(2) The fish diversion structure can be expected to have no significant downstream impacts on channel profiles or velocities in any evaluated discharge. In full operation at the early season high flow, impacts upstream include changes in water surface elevations in the full distance evaluated with increases from 0.2 foot to decreases of 0.3 foot. At the structure itself, water surface elevations will increase by approximately 1 foot, and in the 1 percent exceedence frequency, by approximately 1.9 feet. Water surface profiles will merge to approximate those of existing conditions for all evaluated discharges within 950 feet of the structure. The intake structure placement of the adult trap facility will slightly lower water surface elevations (from 0.1 foot in the annual low flow to 0.2 foot in the 100-year recurrence interval). Split-flow conditions were not studied in detail for this report, but would have significant local impacts on low-flow water surface profiles since up to 20 percent of the annual low-flow discharge could be diverted to the facilities over short distances before return to the channel.

(3) Velocities will not be affected downstream of the project site for any discharge evaluated. In the 100-year recurrence interval base flood discharge, velocities will vary upstream of the diversion structure and the intake by a maximum of 1 fps greater than and 1 fps less than existing velocities (dependent on the location), with smaller increases and decreases in the more frequent events. Velocities will return to match those of the existing conditions within the same 950-foot distance estimated for profiles to return to existing conditions.

c. Crooked River Rearing/Acclimation Pond.

(1) Upstream, near river mile point 9, new construction will include a river intake structure and construction of new acclimation ponds within an existing placer mined excavation.

(2) The river intake structure placement will slightly lower water surface elevations (by 0.1 foot in the 100-year recurrence interval discharge). Split-flow conditions were not studied in detail for this report, but would have significant local impacts on low-flow water surface profiles, since up to 30 percent of the annual low-flow discharge could be diverted to the facilities over short distances before return to

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the channel. Water surface profiles downstream of the site will be unaffected, while upstream of the site elevations will return to within 0.1 foot of the existing conditions profiles within 360 feet of the intake for all discharges evaluated.

(3) Velocities will not be affected downstream of the project site for any discharge evaluated. At the intake structure, the base flood velocity will increase by 0.2 fps from the existing conditions of 8.3 fps. In the 100-year recurrence interval base flood discharge, velocities will increase by approximately 0.2 fps upstream of the intake structure and return to match velocities of existing conditions within 840 feet. For more frequent discharges, the distance to return to match existing velocities is greater than 840 feet.

d. Red River Adult Facility.

(1) The Red River adult facility includes a river intake on the South Fork Red River at approximate stream station 6+51 to replace an existing structure, and at approximate Red River main stem stream station 782+00, a fish diversion structure including fish ladder, fish trap and holding ponds, and appurtenant works.

(2) The fish diversion structure can be expected to have no significant downstream impacts on channel profiles nor on velocities in any evaluated discharge. In full operation, impacts immediately upstream include increases in water surface elevations ranging from 0.1 foot to 0.2 foot, depending on the seasonal flow, and in the 100-year recurrence interval discharge, approximately 1.8 feet. Upstream of the structure, water surface profiles will merge with those of existing conditions within 175 feet of the structure in all except the 100-year recurrence interval discharges. The .01 exceedence probability discharge water surface profile will merge to within 0.1 foot of the existing conditions profile within 300 feet of the structure, matching the existing conditions profile at stream station 786+15 and remaining coincident with the existing conditions profile for the full Red River study segment evaluated. Velocities will similarly return to approximate those of existing conditions by stream station 786+15 and exactly match those of the base model at and upstream of stream station 787+85.

(3) The intake structure placement at the Red River adult facility is to be in the same location of the South Fork of the Red River as the existing facilities intake near stream station 6+51. The positioning and channel transitioning into the new structure will slightly lower both the water surface elevation and the channel velocity at the structure in all discharges evaluated. The water surface profiles will be within 0.1 foot of existing conditions and velocities within

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SECTION 6 - BIOLOGICAL DESIGN CRITERIA

6.01. GENERAL.

a. This section contains the biological and the facility design criteria for the construction of the Red River and Crooked River satellite facilities.

b. The proposed fish trapping, holding, spawning, and smolt rearing acclimation facilities are satellite stations to be operated in conjunction with the Clearwater Fish Hatchery which is a component of the Lower Snake River Fish and Wildlife Compensation Plan. The facilities are to be operated by IDFG.

6.02. CLEARWATER HATCHERY PROGRAM.

a. The spring chinook salmon rearing plan for the Clearwater Hatchery includes trapping, holding, and spawning adult salmon at three remote satellite facilities. These facilities will be located on the Red River and the Crooked River, both of which are tributaries to the South Fork Clearwater River, and on the Lochsa River, a tributary to the Middle Fork Clearwater River. In addition, the Clearwater Hatchery salmon rearing program calls for several smolt acclimation ponds located on various tributaries of the Clearwater River. The management objective is to increase numbers of native anadromous salmonids from each tributary system and to promote natural reproduction of stocks. Development of native runs will require time. If sufficient eggs cannot be obtained from native fish, other sources of eggs may be utilized for the program.

b. The total spring chinook salmon egg production goal for the Clearwater Hatchery is 2.9 million eggs. The adult fish necessary to produce these eggs will be obtained from the Red River, Crooked River, and Lochsa River satellite facilities. The number of adult females required to meet production goals is:

$$(2.9 \text{ million eggs}) / (3,000 \text{ eggs/female}) = 967 \text{ females}$$

c. At a one male to one female sex ratio during spawning migrations, a total adult holding capacity of 1,934 fish is needed within the combined Clearwater Hatchery program. IDFG uses an actual sex ratio of 40 males to 60 females for hatchery operations which yields an adult spring chinook requirement of 1,610 fish to meet production goals. Due to variations in the sex ratio of returning spring chinook adults, a total of 2,000 fish will be targeted for capture. Five hundred adults will be collected from the Crooked River, 500 from the Red River, and 1,000 from the Lochsa River.

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d. For steelhead trout, the Clearwater Hatchery production goal is 3.65 million eggs. The adults required for egg production will be obtained from the Crooked River, Lochsa River, and the adult trapping facilities at DNFH. The adult female requirement for the Clearwater Hatchery production goal is:

$$(3.65 \text{ million eggs}) / (5,000 \text{ eggs/female}) = 730 \text{ females}$$

e. At one male to one female sex ratio during spawning migrations, a total adult holding capacity of 1,460 fish is needed. IDFG uses an actual sex ratio of 40 males to 60 females for hatchery operations which yields an actual adult steelhead trout requirement of 1,217 adults to meet production goals (730 females and 487 males). Approximately half of the adult steelhead requirement will be supplied from the Crooked River and Lochsa River adult facilities, with the remainder obtained from DNFH.

f. Traps at the Red River and Crooked River adult facilities will be designed to allow short-term holding of the captured fish. Fish captured at the Crooked River adult facility will be transferred to the Clearwater Hatchery for long-term holding, whereas the Red River facility will have its own long-term holding ponds at the site. However, IDFG has had experience with trapping and holding of spring chinook salmon at the Red River site, during which periods of high water temperature occurred. Should this happen, the fish at Red River can be transferred to the Clearwater Hatchery holding ponds or cooled with supplemental well water. Therefore, both the Red River and Crooked River adult facilities will be provided with equipment to allow the rapid sorting, loading, and transport of captured fish to the Clearwater Hatchery holding ponds.

g. Long-term adult holding facilities will be included at the Clearwater Hatchery. The holding facilities will consist of two ponds approximately 10-foot by 64-foot by 5-foot average water depth and 2-foot minimum concrete freeboard, thereby providing 6,400 cubic feet of holding space. The multi-temperature water supply capability at the Clearwater Hatchery will ensure adequate adult salmonid holding water temperatures below 56° F.

h. Red River Adult Facility.

The Red River adult facility will include a weir, adult trap, holding ponds, and a related support building. The new facility will be adjacent to the existing Red River smolt rearing/acclimation pond located at the USFS Red River Ranger Station. Adult capture goal is 500 spring chinook salmon for broodstock purposes. Adult holding will occur at the site unless temperatures exceed safe threshold levels. In the event of high temperatures, transfer facilities will be provided to move adults to

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the Clearwater Hatchery. No more than two-thirds of the total projected run will be captured. After broodstock requirements are met, trapping will cease and the barrier will be removed, or the fish will be passed upstream through the volitional release apparatus at the trap.

i. Crooked River Adult Facility.

The Crooked River adult facility shall include a weir, adult trap, and related support buildings to be located near the mouth of the Crooked River. A goal of 500 adult spring chinook and 640 steelhead adults is set for this facility with the fish to be used for broodstock purposes. Captures will be taken at the sex ratio of 40 males to 60 females, and no more than two-thirds of the run will be taken. Adult holding will occur at the Clearwater Hatchery.

j. Crooked River Rearing/Acclimation Pond.

A smolt rearing/acclimation pond shall be located on the Crooked River near Orogrande. Production goals set by IDFG for the Crooked River rearing/acclimation pond are 25,000 pounds of spring chinook smolts at 30 per pound, resulting in 750,000 fish.

6.03. STREAMFLOW CONSIDERATIONS.

a. Red River Adult Facility.

(1) The existing rearing pond at the Red River adult facility obtains its water from the South Fork Red River where instream temperatures are generally suitable for fish culture. Based on flow and thermograph records, periods of low water availability with resultant elevated water temperatures can be expected to occur. The 90-percent exceedence probability (low flow) for the Red River in an average year is 10 cfs (paragraph 3.04.). To avoid impacts to the satellite facility operations and loss of fish, the design criteria for the adult trap and holding structures will be conservative, allowing for decreased loading densities and maximum flows when appropriate.

(2) Instream flow records obtained from the USFS Nez Perce National Forest indicate 1979 as the worst-case year in water availability in the South Fork Red River. However, the data set is not extensive or complete and variations are to be expected. Monthly mean instream flows for the South Fork Red River in 1979 are as follows:

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May	131 cfs
June	76 cfs
July	34 cfs
August	16 cfs
September	14 cfs

Water temperatures during periods of summertime low flows may exceed 60° F (Exhibit 23). Should these temperatures occur, cooling water (1-2 cfs) from wells will be provided and/or the fish can be transferred to the Clearwater Hatchery. Fingerling rearing inwater temperatures in excess of 65° F have higher incidences of columnaris and other pathogens due to stress. Through modifications in the culture operation during periods of elevated temperature, stress to fish can be avoided. Cultural options in these circumstances may include reduced loading, reduced feeding rations, aeration, chemical treatments, fish transfer to another site, or emergency release of the fish into the river.

b. Crooked River Adult Facility.

(1) The location of this facility in the lower Crooked River prevents long-term adult holding due to elevated instream temperatures. Temperatures throughout most of July and August may frequently exceed 60° F (Exhibit 24). To avoid fish loss, frequent trap emptying will be conducted, with adults being transferred to the Clearwater Hatchery.

(2) Water availability does not appear to be a problem at this site. Flow records for 1980 (Nez Perce National Forest) show the lowest daily summertime low flow to be 88 cfs in August. Little recorded data is available for Crooked River; therefore, wide variations may be experienced in waterflows and temperatures. Careful management and use of good fish cultural methods will control adverse environmental conditions.

c. Crooked River Rearing/Acclimation Pond.

(1) The rearing/acclimation pond will be located near the Orogrande landing strip on the Crooked River. Water temperature data obtained from the USGS for 1984 depicts a summertime temperature regime favorable for a juvenile salmonid rearing program (Exhibit 25). The temperatures are generally in the mid-50's (° F). Occasionally, temperatures may reach the low 60's (° F); however, this should not adversely affect the juvenile fish.

(2) Flow availability at this location is adequate for fish culture but, as in the Red River, there is a 10 percent chance of flows of 10 cfs or less in an average year (paragraph 3.04.).

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6.04. ADULT TRAP AND HOLDING POND CRITERIA.

a. Red River Adult Facility.

(1) Using information provided by IDFG, the following volume and inflow requirements were developed for the Red River adult trap and adult holding ponds:

Adult Trap: 1 fish/4 cu ft of holding volume (an average of 20 lb/fish = 5 lb/cu ft)

Adult Holding Ponds: 1 fish/10 cu ft of holding volume (an average of 20 lb/fish = 2 lbs/cu ft)

(2) IDFG has also established design requirements of a minimum water volume of 480 cubic feet in the trap, and 3,600 cubic feet total in the two adult holding ponds. The following adult holdings can therefore be accommodated at Red River:

Adult Trap: $(480 \text{ cu ft}) \times (5.0 \text{ lb/cu ft}) = 2,400 \text{ lbs}$ or 120 adult fish at 20 lbs each

Adult Holding Ponds: $(3,600 \text{ cu ft}) \times (2.0 \text{ lb/cu ft}) = 7,200 \text{ lbs}$ or 360 adult fish at 20 lbs each. 5 cfs (2,240 gpm) will be available at the site resulting in a loading factor for adult holding of $7,200 \text{ lb}/2,240 \text{ gpm} = 3.21 \text{ lb/gpm}$

The adult collection goal of 500 fish should not conflict with the holding pond capacity of 360 fish. The goal of 500 fish is for a full 5-month period, while adult collection, spawning, and transfer operations will occur intermittently throughout this timeframe. Should the program require holding more than 360 fish, adult fish transfers will occur to the Clearwater Hatchery.

(3) Variations in numbers of fish, average weight, and average water temperatures will vary flow requirements as presented in Exhibits 26 and 27.

(4) A minimum of 2 feet of freeboard will be provided at the trap. Aluminum fencing 4 feet high shall be provided at the fish ladder and trap perimeter for jumping control. Holding ponds shall have a 1-foot freeboard and be equipped with opaque plastic membrane covers to provide a dark "calming" effect which minimizes jumping and stress to the fish.

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b. Crooked River Adult Facility.

(1) The Crooked River adult facility will provide 384 cubic feet of space for short-term holding of returning spring chinook salmon and summer steelhead. With a density criteria of 4 cubic feet per fish, 96 fish can be held in the trap at once. The average weight of the fish is 20 pounds, resulting in a maximum total of 1,920 pounds of adult fish. A flow rate of 10 cfs (4,480 gpm) has been established for the Crooked River adult facility by IDFG. With 1,920 pounds of adult fish and 4,480 gpm, the actual maximum loading will be 0.43 pounds per gpm. However, fluctuations in numbers of fish, average weight, and average water temperatures will vary the actual flow requirements, as presented in Exhibit 28.

82-07185

(2) Adult summer "B" run steelhead weighing 8.0-28.0 pounds (14-pound average) will also be collected at the Crooked River adult facility to provide additional broodstock for the Clearwater Hatchery. IDFG criteria for steelhead are the same as those for spring chinook salmon. With a trap volume of 384 cubic feet and a density criteria of 4 cubic feet per fish, 96 fish may be held on a short-term basis (less than 24 hours).

6.05. REARING/ACCLIMATION RACEWAY CRITERIA.

82-07186

a. IDFG has established that the Crooked River smolt rearing acclimation pond shall provide 25,000 pounds of spring chinook salmon smolts each year. Fish will be reared to the size of 30 fish per pound. The following biological design criteria have been established for the Crooked River rearing/acclimation raceways.

Production Goal: 25,000 lbs of spring chinook salmon smolts at
a size of 5 inches total length and 30 fish/
lb = 750,000 fish

Total Raceway

Volume: 17,400 cubic feet

Maximum Density (25,000 lbs)/(17,400 cu ft/(5.0 inch)) = 0.3
Index: lbs/cu ft/inch

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Pond Inflow: 11 cfs or 4,928 gpm

Maximum Loading: $(25,000 \text{ lbs}) / (4,928 \text{ gpm}) = 5.1 \text{ lbs/gpm}$

Pond Exchange Rate, R: $(11 \text{ cfs}) \times (3,600 \text{ sec/hr}) / (17,400 \text{ cu ft}) = 2.30 \text{ pond exchanges/hour} \times 24 \text{ hrs/day} = 54.70 \text{ pond exchanges/day}$

b. A computer program was developed to address the water requirements for supporting the Crooked River rearing/acclimation raceways using the Piper Flow Index method (Exhibit 29). Fish growth was based upon a chinook salmon growth constant of 22.0 monthly temperature units/inch of growth. Monthly average water temperatures were calculated for the Crooked River at Orogrande from the daily thermograph readings collected for the months of July, August, September, and October 1984. Optimum Flow Index values were calculated for 4,500 feet msl elevation at Orogrande, Idaho, assuming 100-percent oxygen saturation values at the average monthly river water temperatures. Smolt rearing survival estimates were based upon a 1-percent mortality per 30-day period.

c. By beginning the pond rearing and growth period on 1 July, the spring chinook target production size can be achieved in approximately 113 days through the normal summer-fall rearing period. The rearing pond space and flow design criteria developed by IDFG provide the desired density and loading requirements: density 0.5 lbs/cu ft, and loading = 7.6 lbs/gpm. Achieving the desired target release size within the summer-fall rearing period should not be a problem at the Crooked River rearing pond.

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SECTION 9 - HYDRAULIC DESIGN, WATER SUPPLY, AND WASTEWATER - CROOKED
RIVER REARING/ACCLIMATION RACEWAYS

9.01. GENERAL.

This section contains the hydraulic engineering design descriptions for the water supply and wastewater systems at the Crooked River rearing/acclimation site.

9.02. WATER RIGHTS.

The water rights to the Crooked River rearing/acclimation raceways will be obtained by IDFG and transferred to the Federal Government.

9.03. RIVER INTAKE AND SUPPLY LINE.

a. The hydraulic design capacity of the intake and supply line for the rearing/acclimation raceways was based on the low-water elevation of 4,356.5 feet on the Crooked River at the site of the intake. Temporary boulder weirs will be used should channel meander or unusually low flow create a head lower than required. Water enters the intake structure through screens which have a minimum surface area of 52 square feet exposed to water at low flow. Since the intake screen has 60-percent net open area and could be 30-percent clogged by debris, the effective open flow area is 22 square feet. For the desired project supply flow of ~~22 cfs~~ ¹¹ and the smallest expected effective flow area of 22 square feet, the criteria is met for 0.5 fps passing through the intake screens. Also, head loss through the screens is negligible.

b. The vertical location of the supply pipe inlet was determined by pipe submergence requirements to prevent vortexing. At lowest flows, the water surface in the intake structure still meets submergence requirements above the top of the pipe. If vortexing should occur, simple modifications, such as a floating raft, could eliminate vortex action.

c. The supply pipe is 30-inch-diameter concrete cylinder pipe (CCP) from the intake structure to the raceways. At the raceways, a pipe manifold divides flow into four 14-inch-diameter pipes. Two pipes supply 5.5 cfs of flow that upwells into each raceway upstream from fish barrier screens. Knife gates on each 14-inch-diameter pipe regulate inflow to the raceways so that water is distributed evenly between both pipes in each raceway and also distributed evenly between both raceways. The gate at the intake structure will be used for on/off regulation of flow to completely prevent flow from entering the supply pipe for maintenance purposes and for closing the facility during the off-season.

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9.04. REARING/ACCLIMATION RACEWAYS.

a. The spring chinook rearing and acclimation facility will consist of two raceway ponds. Each pond is 145 feet long (between screens), 20 feet wide, with an average water depth of 3 feet. The total water volume for both ponds, between the fish barrier screens, is 17,400 cubic feet. Each pond will receive a 5.5-cfs water inflow, which results in 2.28 water volume changes per hour.

b. Water discharging from each rearing raceway will flow over stoplog weirs that maintain the water depth in the ponds. This discharge falls into a drainage bay and then enters a 24-inch-diameter CCP pipe through a mud valve. The two pipes are routed from the raceways to the sedimentation pond.

9.05. FACILITY DRAINAGE.

a. Flow exits each raceway pond through a 24-inch-diameter CCP ($n = 0.015$) pipe and is routed to the sedimentation pond. ~~The combined raceway flow of 11 cfs enters the sedimentation pond through a submerged inlet pipe.~~ The sedimentation pond water surface elevation is maintained at 4,350 feet by the downstream drain sumps. The pond is configured so that retention time of the flow is 30 minutes. Flow exits from the sedimentation pond through three 18-inch-diameter pipes and is passed to the Crooked River. A riprap blanket at the river will protect the riverbed from the energy of the outflow.

b. Throughout the system, pipes are sized to maintain a scouring velocity of nearly 2 fps at the 11-cfs normal operating flow. This velocity should keep any sediment in suspension so it may pass through the facility and back into the river.

c. During fish rearing, the raceways will be vacuum cleaned by the use of a portable electric vacuum pump, a 2-inch floating hose, and a manually-controlled vacuum cleaner head (similar to those used to clean swimming pools). The cleaning waste will be pumped into the cleaning sedimentation pond, which has a volume of 4,000 cubic feet. Cleaning waste will be retained in the cleaning sedimentation pond for 4 hours before being introduced into the main sedimentation pond. The solid waste in the cleaning sedimentation pond can be dewatered by use of decanting valves at the downstream end of the pond. Once the solid waste is dried out, a front-end loader can enter the pond for waste removal by using the access ramp.

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9.06. FISH RELEASE.

Before fish release, the mud valve on the raceway drainage pipe will be closed and the gate on the fish release pipe will be opened. Then, raceway screens and stoplogs will be removed, allowing fish to pass downstream with the draining water. As fish leave each raceway, they pass through an 18-inch-diameter fish release pipe and enter the river. The maximum anticipated velocity in the 18-inch-diameter pipe during fish release is 7.5 fps. The outlets of the pipes are located so that fish will be released into a 3-foot-deep pool. Also, the pond drainage system can completely empty one raceway pond in less than 1 hour.

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MEMORANDUM

TO: File 82-07186
FROM: Brenda Chapman
DATE: May 25, 1995
RE: Fish Propagation / Annual Volume Requirements

=====

The standard formula for determining the annual volume required for a fish propagation facility is:

1. Calculate changes per hour:
 $\text{Flow into facility} \times 3600 \text{ sec} / \text{facility volume (cf)} = \text{changes}$
 2. Calculate annual volume:
 $\text{Facility volume (af)} \times \text{changes} \times \% \text{ of } 8760 \text{ hrs/yr} = \text{afa}$
 3. Calculate volume given by permitted flow:
 $\text{Flow rate (cfs)} \times 1.9835 \times \text{? days} = \text{afa}$
 4. Recommend lower figure.
-

Season 1 Recommendation 3-1 to 7-31

1. 10 cfs x 3600 sec per hr / 25000 cf = 1.44 changes
 2. .6 af x 1.44 changes x 3672 hrs/season = 3172.6 afa
 3. 10 cfs x 1.9835 x 153 days = 3034.8 afa
- RECOMMENDATION : 3034.8 afa

Season 2 Recommendation 8-1 to 10-20

1. 8 cfs x 3600 sec per hr / 25000 cf = 1.15 changes
 2. .6 af x 1.15 changes x 1944 hrs/season = 1341.3 afa
 3. 8 cfs x 1.9835 x 81 days = 1285.3 afa
- RECOMMENDATION : 1285.3 afa

TOTAL ANNUAL VOLUME RECOMMENDATION 4320.1 afa

JUN 30 1995

83.3 af
under what full
rate & season of
use would be.

Idaho Department of Fish and Game
Clearwater Fish Hatchery
4156 Ahsahka Rd
Ahsahka, ID 83520

MAY 22 1995

Memorandum

TO: Cindy Robertson

May 19, 1995

FROM: Jerry McGehee *JM*

REF: Amendment of Permit #82-07186, upper Crooked River raceways

The following flow regime would be adequate to operate the rearing raceways at upper Crooked River throughout the extended season in the amendment of the water use permit. The change in our operation season should be as follows; March 1 through July 31 the use of 10 cfs of water would be required, August 1 through October 20, 8 cfs of water would be required to operate this facility. These amounts are less than the allowed 4,403 acre feet per year.

If there any more numbers or information you need please give me a call.

JM/rdh

RECEIVED

JUN 30 1995



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

March 31, 1995

Cindy Robertson
Idaho Department of Fish and Game
600 S. Walnut
Boise, ID 83707

RE: Application for Amendment of Permit No. 82-07186

Dear Cindy,

Earlier this month you filed an Application for Amendment of Permit to extend by two months the season of use of Permit No. 82-07186. A request to extend a season of use cannot be approved if it would result in an increase in the annual diversion volume or annual consumptive volume under the currently permitted season.

In order to evaluate your request, I asked Northern Region to send me our field report, which is based on the field exam conducted in August of 1991. The field report indicates a measured diversion rate of 6.68 cfs, which is considerably lower than the 12.0 cfs rate that was permitted. Approving the extended season without reducing the 12.0 cfs rate would result in an increased annual diversion volume. However, changing the diversion rate on your application for amendment to the 6.68 cfs reported by our examiner would allow an extended season without exceeding the annual volume allowed under the original permit.

Consumptive volume is not a factor because this is a non-consumptive use.

I have attached a memorandum which summarizes our analysis.

Please let me know if you wish to change the diversion rate requested on your application for amendment. I will hold it for 30 days awaiting your response. If you have any questions, please call me at 327-7946 in Boise.

Sincerely,

Shelley Walter Keen
Water Rights Supervisor

SWK
Enclosures

RECORDED

JUN 30 1995

M E M O R A N D U M

DATE: March 31, 1995

TO: File 82-07186

FROM: Shelley W. Keen *SWK*

RE: Measuring Device Requirement

=====

I called Al Beardslee in Northern Region this morning to ask if he knows of any reason why the Fish & Game should be forced to comply with the measuring device requirement before this right can be licensed. He said he sees no need for measuring devices at the point of diversion and the point of effluent discharge when measuring devices have been installed halfway between the two points. This appropriation is not in a water district, nor is it on a highly appropriated stream. However, he said he would ask Bob Haynes and have Bob call me by noon today if his opinion differs from Al's.

RECEIVED

JUN 30 1995

MEMORANDUM

TO: File 82-07186 / Fish & Game
FROM: Brenda Chapman
DATE: March 24, 1995
RE: Recommendation Adjustment(s)

=====

The final licensing recommendations for the above referenced water right are based on the following information:

There are two items to be address before the recommendations are made. First, the 1994 application to amend this permit to extend the season of use by two months can be approved because it would not be an expansion of the original permit. With the reduced rate, the annual volume does not exceed what it would be with the permitted higher rate but shorter season. (See the attached volume calculations worksheet).

And second, one of the permit conditions was that measuring devices were to be located at the points of diversion and effluent discharge. The examiner found both measuring devices to be located where the raceways exit into the settling ponds. Given the facility structure, measurements from those two locations provided acceptable information from which to make the rate recommendation. According to the 8/7/79 Administrative Memorandum for Application Processing (#15), that particular measuring device requirement is required when the source is highly appropriated or is regulated by a watermaster. This permit does not fall within that criteria; therefore, the condition is not being placed on the license.

C. DIVERSION AND DELIVERY SYSTEM

1. Point of Diversion and the Place of Use: Per telephone conversation with BLM, Section 30 has not been surveyed; therefore, no government lot numbers have been assigned.

G. VOLUME CALCULATIONS

The volume recommendation has been adjusted based on the attached fish propagation worksheet. (which reflects the recommendation to approve the extended season of use)

MICROFILMED

JUN 30 1995

MEMORANDUM

TO: File 82-07186
FROM: Brenda Chapman
DATE: March 24, 1995
RE: Fish Propagation / Annual Volume Requirements

=====

The standard formula for determining the annual volume required for a fish propagation facility is:

1. Calculate changes per hour:
Flow into facility x 3600 sec / facility volume (cf) = changes
2. Calculate annual volume:
Facility volume (af) x changes x % of 8760 hrs/yr = afa
3. Calculate volume given by permitted flow:
Flow rate (cfs) x 1.9835 x ? days = afa
4. Recommend lower figure.

Permitted Season of Use Recommendation 5-1 to 11-1

1. 6.68 cfs x 3600 sec per hr / 25000 cf = 1.0 changes per hr
2. .6 af x 1 changes x 4440 hrs/season = 2664.0 afa
3. 6.68 cfs x 1.9835 x 185 days = 2451.2 afa

Extended Season Recommendation 3-1 to 11-1

1. 6.68 cfs x 3600 sec per hr / 25000 cf = 1.0 changes per hr
2. .6 af x 1 changes x 5904 hrs/season = 3542.4 afa
3. 6.68 cfs x 1.9835 x 246 days = (3259.4) afa

Permitted Rate and Season Recommendation 5-1 to 11-1

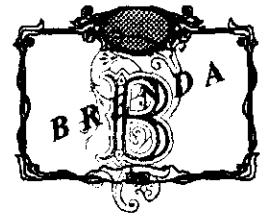
1. 12 cfs x 3600 sec per hr / 25000 cf = 1.7 changes per hr
2. .6 af x 1.7 changes x 4440 hrs/season = 4528.8 afa
3. 12 cfs x 1.9835 x 185 days = 4403.4 afa

RECOMMENDATION : Extended Season Recommendation

JUN 30 1995

LICENS. REVIEW CHECKLIST

PERMIT NO. 82-07186 DATE 3/24/95



NAME Change OK ☒ Or Address Change? ☐

PRIORITY DATE Advance? ☒ Advanced to: Order to reinstate needed? Incorrect fee for rate recommended? NO

SOURCE Changes or just clarification of originally intended source? ☒ Notice of Intent to Void necessary? Amendment needed? ☒ Overlaps? PLACEMENT WITH BLM 3-24-95 LAND HAS NOT BEEN SURVEYED

POINT OF DIV Amendment needed? ☒ Overlaps? PLACEMENT WITH BLM 3-24-95 LAND HAS NOT BEEN SURVEYED

PLACE OF USE Amendment needed? ☒ Overlaps? PLACEMENT WITH BLM 3-24-95 LAND HAS NOT BEEN SURVEYED

DIV RATE Permit/fee limits: 12 CFS Meas Q = 6.68 Theo Q = Recommend: 6.68

ANNUAL VOLUME Combined rates exceed capacity WANTING TO AMEND SEASON TO 3-1 TO 11-1 Volume Limit: Season: 5-1 to 11-1 Calculations: See attached calculation sheet Flow limit: cfs x 1.9835 = Combined volumes exceed capacity/allowable Facility volume = 25000 cfs or .6 af

USES Change in Nature of Use or additional uses? ☒ Amendment necessary? Amendment necessary?

REMARKS Multiple p/d(s) in 1/4 1/4? ☒ Other Keep "minimum streamflows..." comment. Add the facility volume = .6 af.

CONDITIONS Watermaster control - District ☒ Measuring/Locking Devices Irrigation Overlap ☒ Other (REPLACES 044) Water Quality 090 Heat/Cool/Fish verified ☒ YES

COMMENTS: REDUCE rate to measured rate of flow on flow meters. * Can extend season of use not an expansion of the permit. (See attachments)

RECOMMENDATION	CFS	VOLUME
<u>Fish Propagation</u>	<u>6.68</u>	<u>3259.4</u>

SRBA Claim Filed NO Adjustment Memo Needed YES LICENSE Special Cover Letter necessary ☒ AMENDMENT LETTER Second Amendment Letter

Application for Amendment also to be approved with it.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
MAR 20 1995
Department of Water Resources

A. GENERAL INFORMATION

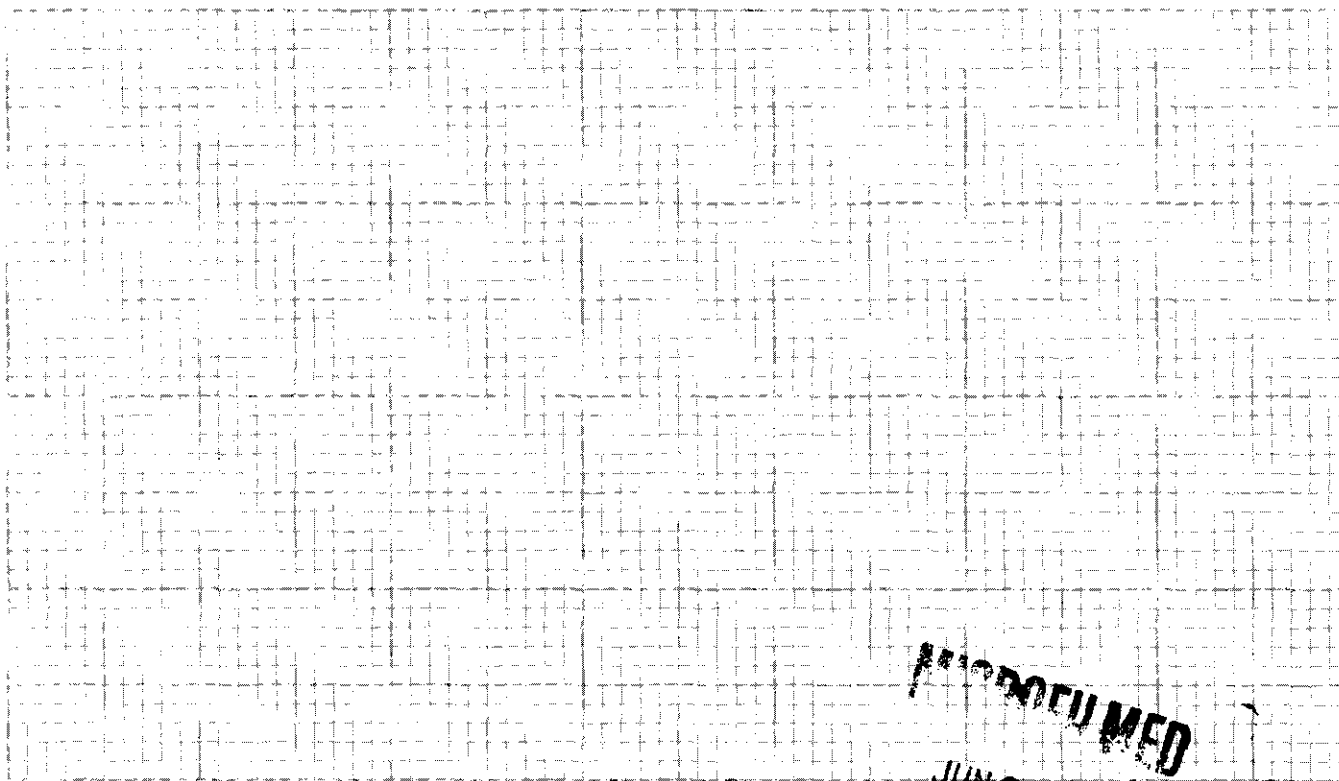
1. Owner: Idaho Dept. Fish & Game Permit No. 82-07186
Current Address: PO Box 25 BOISE ID 83707 Phone No. 334-3730
2. Accompanied by: Jerry McGeehee EXAM. DATE: 8/7/91
Address: Rt 2 Box 121A Phone No. 935-2112
Relationship to Permit Holder: Hatchery Program Manager
3. Source: Crooked River tributary to South Fork Clearwater River

B. OVERLAP REVIEW

1. Other water rights with same place of use: None ☐ Copies Attached
2. Other water rights with same point of diversion: None ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☒ Alternative diagram attached



Scale: 1" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required). ☐ Aerial Photo Attached N/A
(required for irrigation of 10 acres or more).
☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Water from the Crooked River enters the system through a butterfly valve in the screened intake structure and travels to two raceways. Overflow from raceways usually exit to the settling pond and then through the effluent discharge pipe back to the River. Once a year, the raceways empty directly into the river to flush out the fish. When the raceways are emptied, they are cleaned with swimming pool vacuum equipment. The effluent from this operation travels through clean out line to the clean out pond and then to the settling pond, and then to the river.

☐ See Remarks on page 4 for continuation

☐ See Remarks on page 4 for continuation

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
GRAVITY					

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

5. Point(s) of Diversion:

[illegible]

6. Place(s) of Use:

Indicate Method of Determination.

[illegible]

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Micro meter				91-24119		
Micro meter				91-24120		

2. Measurements:

1500gpm at each meter ~~(1500)~~

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

$$1500\text{gpm} \times 2 = 3,000\text{gpm} = 6.68\text{ cfs}$$

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3); Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

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:

Non-consumptive use only

Volume of 2 raceways is ~~26,000~~ cubic feet (12,500 @) or .57 AF
6.68 cfs fills .57 af in 1.04 hrs. or 23.07 times/day
6.68 x 183 x 1.9835 = 2424.7
See attach adjustment explanation memo. BC

H. REMARKS AND OVERLAP REVIEW ANALYSIS

The conditions of approval include having a measuring device at both the intake and the point of discharge. The only measuring devices are located as the water enters the settling ponds. (Which is neither the point of diversion or the point of discharge.)

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
* Fish Culture	5-1	11-1	6.68 cfs	2407.2
Totals:			6.68 cfs	2407.2

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

J. AUTHENTICATION

Field Examiner's Name

Theresa J. Bright

Signature

Theresa J. Bright

Certification Date

Field Report Preparation Date

8/19/91

CONSULTANT SEAL

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

* See attached adjustment explanation memo. RC

MICROFILMED

JUN 30 1995

2875 1 SE
(CENTER STAR MTN.)

13

32'30"

14

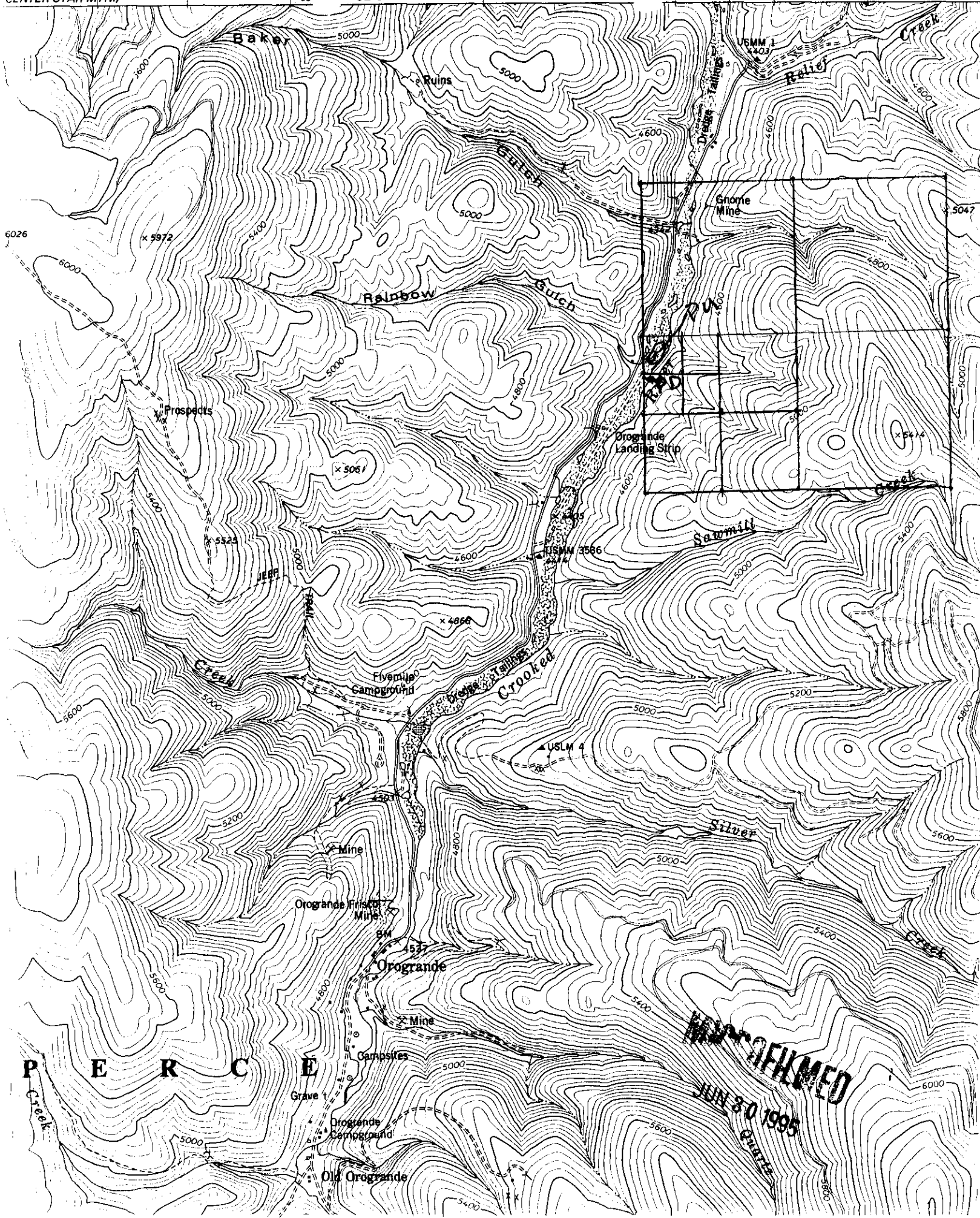
8

IDAHO 14

560 000 FEET

16

1



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
FIELD REPORT SUPPLEMENT

PERMIT # 82-07186

PAGE 1 OF 2

PHOTOGRAPHS



INTAKE STRUCTURE

Clean Out Pond

FISH
Race ways

VALVE IN RACEWAY
TO SETTLING POND

WATERWAY
JUN 30 1995

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
FIELD REPORT SUPPLEMENT

PERMIT # 82-07186

Page 2 of 2

PHOTOGRAPHS



settling pond

~~WATER~~

JUN 30 1995

← settling pond

Discharge into Crooked
↓



MEMORANDUM

DATE: March 7, 1995
TO: Shelley Keen
FROM: Cindy Zimmerman
SUBJECT: Amendment of Permit No. 82-07186

=====

This application for amendment proposes to change the period of use from the original permitted period of use of May 1 to November 1 to an expanded period of use of March 1 to November 1.

Also, proof of beneficial use was filed on this permit August 1, 1991.

First, because proof was filed, we standardly have the region do a pre-amendment examination to verify the original development.

Secondly, if the expanded period of use results in added volume, then this amendment is not approvable.

Please advise.

Thanks,

Cindy

MEMORANDUM

JUN 30 1995

State of Idaho
Department of Water Resources

AMENDMENT ANALYSIS SHEET

10
sk
RECEIVED
FEB 02 1995
Date 12-1-94
Water Resources

INITIAL REVIEW BY: 15

Right Number 82-07186 Applicant IDFG

Purpose of Amendment: ☐ Change point of diversion. ☐ Add diversion point(s).
☐ Increase amount. ☐ Change place of use. ☒ Other CHANGE PERIOD OF USE

CHECK:

- ☐ Description of amended point(s) of diversion.
- ☐ Amount, nature and period of use. If increased, delay date of priority.
- ☐ Description of amended places of use. If expanded, delay date of priority.
- ☐ Ownership of point of diversion and place of use.
- ☐ Map.
- ☐ Signature (must be permit holder).
- ☐ Fee.
- ☐ Existing water rights from the same source, amended place of use.
- ☐ Right number(s) _____
- ☐ Yes ☐ No Should amendment be advertised?
- ☐ Yes ☐ No Should date of priority be delayed? If yes, to what date? _____

FINAL REGIONAL PROCESSING REVIEW:

do { 1/18/95 ☒ Affidavit of publication received,
1/18/95 ☒ Amendment published correctly. ok Prot. due by 1/23/95
None received.

- ☐ Protests processed.
- ☐ Approve.
- ☐ Deny.
- Conditions _____

By [Signature] Date 1/24/95

STATE OFFICE PROCESSING:

- ☐ Amendment correct and complete. By _____ Date _____
- ☐ Approved copy sent to applicant and to Region. By _____ Date _____

POINT OF DIVERSION AND STREAM INDEX INFORMATION

TRACT SEC TWP RGE gov't rediv. REACH
lot (R)

IDAHO STREAM CODE INDEX

TRACT SEC TWP RGE gov't rediv. REACH
lot (R)

IDAHO STREAM CODE INDEX

TRACT SEC TWP RGE gov't rediv. REACH
lot (R)

IDAHO STREAM CODE INDEX

TRACT SEC TWP RGE gov't rediv. REACH
lot (R)

IDAHO STREAM CODE INDEX

TRACT SEC TWP RGE gov't rediv. REACH
lot (R)

IDAHO STREAM CODE INDEX

RECEIVED

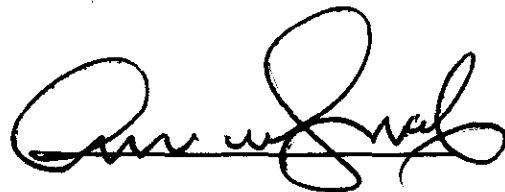
JAN 18 1995

NORTHERN REGION
IDWR

AFFIDAVIT OF PUBLICATION

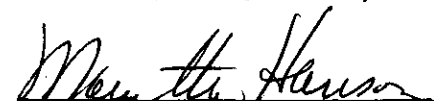
STATE OF IDAHO
County of Idaho - ss.

Andrew J. McNab, being
first duly sworn, says she is the Publisher
of the IDAHO COUNTY FREE PRESS, a weekly newspaper published
and issued weekly at Grangeville, Idaho county, State of Idaho, and is
of general circulation in said county and state, that the said notice, of
which the one hereto attached is a true copy, was published in said
paper for two weeks, being published two
times, the first publication being on the 4th day of
January, 19 94, and the last
publication on the 11th day of January, 19 95;
and that the said notice was published in the newspaper proper and not
a supplement; that said newspaper has been continuously and uninter-
ruptedly published in said county during a period of seventy-eight
consecutive weeks prior to the publication of said notice or advertise-
ment.



STATE OF IDAHO }
COUNTY OF } IDAHO

On this 11th day of January in the year of 1995
Before me, a Notary Public, personally appeared _____
Andrew J. McNab, known or identified to me
to be the person whose name subscribed to the within instrument, and
being by me first duly sworn, declared that the statements therein are
true, and acknowledged to me that he executed the same.


Notary Public for Idaho
Residing at Grangeville, ID
My commission expires: 10-8-99

MICROFILMED

JUN 30 1995

December 28, 1994

Idaho Fish & Game
P O Box 25
Boise, ID 83707-0025

Re: 82-07186 (Crooked River Fish Facility)

Dear Idaho Fish & Game:

The Idaho Department of Water Resources hereby acknowledges receipt of the **Application for Amendment** for the above referenced water right permit to appropriate the public waters of the State of Idaho. Enclosed is Receipt Number N008511.

Your Application for Amendment of a Permit is being prepared for advertising in the local county newspaper. The advertisement will be published for two consecutive weeks followed by a waiting period of ten days to allow for submittal of protests.

If your application is not protested, it will be forwarded to Boise for processing. If your Application for Amendment of a Permit is protested, you will be sent a copy of the protest and instructions to aid you in resolving the protest without a hearing. All protests must be resolved before your Application for Amendment of a Permit can be approved. If the protest is not resolved, this Department will conduct a conference and/or hearing on the matter.

You will receive your approved Application for Amendment of a Permit and instructions on filing the Proof of Beneficial Use from our State Office in Boise.

If I can be of further assistance, please feel free to contact me at this office.

Sincerely,

Allen Beardslee
Senior Water Resource Agent
Enc. - Receipt

RECEIVED

JUN 30 1995

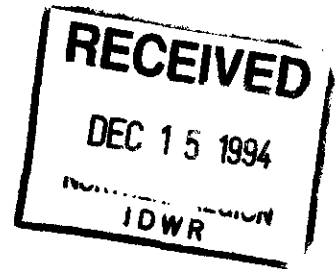


IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707-0025

Cecil D. Andrus / Governor
Jerry M. Conley / Director

December 13, 1994



Mr. Allen Beardsley
Northern Region Office
Idaho Department of Water Resources
1910 Northwest Blvd. #210
Coeur d'Alene, ID 83814

Rec. # N008511

RE: Permit no. 82-07186 (Crooked River Fish Facility)

Dear Al:

I have enclosed an application for amendment for the above-referenced permit and a check (#153366) for \$50.00 for payment of fees. Please return a receipt for the payment for our accounting office. If you have any additional questions regarding this amendment, please call either Jerry McGehee at 476-3331 or me at 334-2597.

Sincerely,

Cindy Robertson

Cindy Robertson
Fishery Staff Biologist

CR:tlv

Enclosures

cc: Jerry McGehee, Clearwater Hatchery
Tom Rogers, Fisheries





State of Idaho
DEPARTMENT OF WATER RESOURCES

NORTHERN REGION, Suite No. 210 • 1910 Northwest Blvd. • Coeur d'Alene, Idaho 83814-2615
(208) 769-1450

Fax (208) 769-1454

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

December 28, 1994

Idaho County Free Press
P. O. Box 267
Grangeville, ID 83530

Gentlemen:

Enclosed you will find a legal Notice of Amendment which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. If you cannot publish the notice on the proposed dates, please contact us immediately.

Please send the Affidavit of Publication, and the bill, to this office before January 23, 1995.

Thank you.

Sincerely,

Dianne Ball
Senior Secretary

Enclosure

MICROFILMED

JUN 30 1995

NOTICE OF AMENDMENT

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-07186, in the name of State of Idaho Department of Fish and Game, Box 25, 600 S. Walnut, Boise, ID 83707, was amended.

The point of diversion is T28N R08E, Sec. 30, SWNWSW, Idaho County, ID, and the place of use is T28N, R08E, Sec. 30, NWSW. Use is for fish propagation.

The period of use has been changed from 05/01 - 11/01 to 03/01 - 11/01.

(For additional information concerning the property location, call the Northern Regional Office at 769-1450.)

Any protests against the approval of the above-referenced amendment must be filed with the applicant and with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814, together with a protest fee of \$25.00 on or before January 23, 1995.

R. KEITH HIGGINSON, Dir.

Published in the Idaho County Free Press 1/4 & 11/95.

MICROFILMED

JUN 30 1995

12/24/94
Bob OR.
Please review
to make (12)
sure that
is ok, & I
have included
everything
necessary. &



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

October 25, 1991

Department of Fish and Game
P.O. Box 25
Boise, ID 83707

RE: Permit No. 82-07186 and Permit No. 82-07185

Dear Permit Holder:

This office acknowledges receipt of the Proof of Beneficial use form submitted on July 15, 1991.

Note the condition of approval of your permit which requires you to install a flow measurement port or other device to provide for the determination of the rate of diversion. The next step is for the department to conduct a field examination for licensing purposes. At the time the field examination is conducted, a type of measuring device must be installed. Failure to comply is reason for the department to cancel the permit.

The department understands, however, that certain methods of diversion make it impossible to install measuring devices. If this situation applies to you, discuss with the department representatives alternative techniques of measuring your diversion rate. At the time of the field inspection, the field examiner can be prepared with the appropriate measuring equipment.

Also, you have indicated the rate of diversion on Permit No. 82-07186 to be 12 cfs and submitted a \$400 license exam fee for permit no. 82-07186. The license exam fee for 12 cfs is \$375. You have indicated the rate of diversion on Permit No. 82-07185 to be 10 cfs and submitted a \$375 license exam fee. The license exam fee for 10 cfs is \$350. Therefore, I have initiated the process to refund the difference of \$25 on each permit.

The department will continue to process the proof. If you have any questions concerning this matter, feel free to contact this office.

Sincerely,

A handwritten signature in cursive script that reads "Karen Gustafson".

Karen L. Gustafson
Secretary/Records Manager

CC: Northern Region

RECEIVED
NOV 21 1991



IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707

RECEIVED
AUG 01 1991

Department of Water Resources

July 26, 1991

Idaho Department of Water Resources
Statehouse Mail
Boise, ID 83725

Gentlemen:

Enclosed are Proof of Beneficial Use forms together with the required fees for Permit Numbers 82-07185 and 82-07186.

If you need any further information, please let me know.

Sincerely,

Philip G. Jeppson
Engineering Supervisor
Bureau of Engineering

PGJ:Q

Encs.

Cecil D. Andrus / Governor
Jerry M. Conley / Director



RECEIVED

NOV 21 1991

DW

**RECEIPT
For Monies Paid
to the
IDAHO DEPARTMENT OF WATER RESOURCES**

Receipt No: 0021372

Date: 8/ 1/1991
Time: 08:20:04

Received

From: IDAHO, STATE OF (F & G)

Type of Payment	Program Acct Class	Amount
PROOF OF BENEFICIAL USE (82 07186)	550122 1238 6490	400.00
Total		\$400.00
CHECK	042999	

Region: STATE

Signature: J. Yarbrough

RECEIVED

NOV 21 1991

138721
May 31, 1991

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83707

PROOF DUE NOTICE

RE: PERMIT NO. 82-07186

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before August 1, 1991. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

SINCERELY,

Rita Fleck
Secretary/Records Manager

Enclosures

RECEIVED

NOV 21 1991

Id. Fish & Game Dept.

P.O. Box 25

Boise, Id. 83707

PLACE

STAMP

HERE



RECEIVED

JUL 19 1989

NOT FILLED

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

SEP 14 1989

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
COMMENCEMENT OF WORKS

Permit No. 82-07186
Name(s) of Permit Holder(s): Idaho State Fish & Game Dept.
Post Office Address: P.O. Box 25, Boise, Id. 83707
Phone No. 334-3780

- ☒ I hereby certify that construction of diverting works on the above referenced permit began on June 14, 1989. I understand that I must continue to develop the water system with due diligence to maintain a valid permit.
- ☐ I hereby certify that construction of diverting works on the above referenced project has not yet begun due to the following reason beyond my control*:

*Note: A financing difficulty is not an acceptable reason.

7-14-89
Date

[Signature]
Signature of Permit Holder

S T A T E O F I D A H O
D E P A R T M E N T O F W A T E R R E S O U R C E S

Statehouse
Boise, Idaho 83720
(208) 334-7900
July 12, 1989

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83707

P E R M I T A P P R O V A L N O T I C E

RE: PERMIT NO. 82-07186

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. We direct your attention to the conditions of approval on the final page.

Please note the requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The enclosed blue card must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

We have enclosed a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit into a license.

Sincerely,

GARY SPACKMAN, Supervisor
Water Right Permits Section

GS: SC
Enclosures

MONOTYPED
SEP 14 1989

License and Certificate of Water Right

Water District No. 2

Priority **AUGUST 17, 1954**

GROGRANDE-FRISCO GOLD MINES, INC.

The right hereby confirmed dates from August 17, 1984

The Point of Diversion is located about 500 feet below the confluence of Little Creek
in the Little Creek River, N. B. M. 1960-1961.

That the amount of water to which such right is entitled and hereby confirmed, for the purposes herein is limited to an amount actually needed and beneficially used for said purposes, and shall not exceed one cubic foot per second.

Description and location of use:

Trp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Drilled

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or interests therein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the Commissioner of Reclamation, affixed at Boise, Idaho
this 16th day of May, 1936

R. W. PARIS
Commissioner of Radiation

Goal:

MICROFILMED

SEP 14 1989

BE LMC

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 82-7155

To appropriate the public waters of the State of Idaho

APPROVED

1. Name of applicant Glamis Gold, Inc. Phone (602)783-1891

Post office address P. O. Box 2015, Yuma, AZ 85364

2. Source of water supply Crooked River which is a tributary of South Fork Clearwater

3. Location of point of diversion is SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of NW $\frac{1}{4}$, Govt. Lot _____

Sec. 1 Township T27N Range R7E B.M. Idaho* County; additional

points of diversion if any: _____

*kw 5/7/1987

4. Water will be used for the following purposes:

Amount 1.00 for Mining purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) 1.00 and/or (b) 5
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. A 5hp pump with a 4" intake will be used to fill a 5000 gal. water truck.

b. Height of storage dam -0- feet; active reservoir capacity -0- acre-feet; total reservoir capacity -0- acre-feet; period of year when water will be diverted to storage: -0- to -0- inclusive.

c. Proposed well diameter is -0- inches; proposed depth of well is -0- feet.

d. Is ground water with a temperature of greater than 90°F being sought? NO

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years (minimum 1 year).

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SEP 14 1989

8. Description of proposed use: irrigation only, go to item 9;
- Hydropower; show total feet of head and proposed capacity in KW. _____
 - Stockwatering; list number and kind of livestock. _____
 - Municipal; show name of municipality. _____
 - Domestic; show number of households. _____
 - Other; describe fully. Mining - Water supply for pilot scale heap leach operation.

9. Description of place of use:

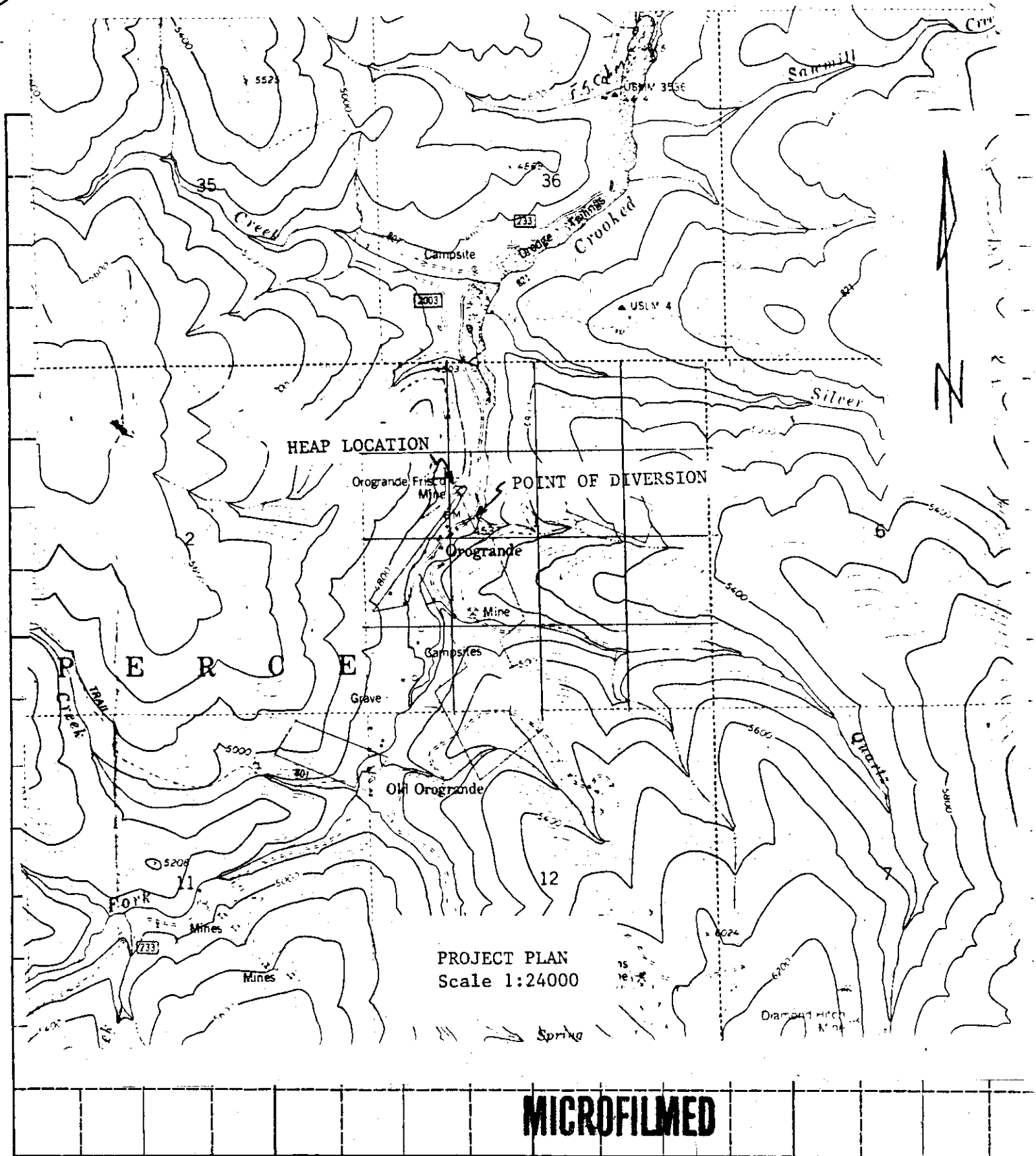
- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (*example: D for Domestic*) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
27N	7E	1								X									

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. None
11. a. Who owns the property at the point of diversion? Federal Land
- b. Who owns the land to be irrigated or place of use? Federal Land (Unpatented claims)
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. Claims held by Joyce Mines, Inc., optioned to Amir Mines, Inc., who joint ventured the property with Glamis Gold Inc.
12. Remarks: Project startup will require approximately 4000 ft³ water. During a year with average precipitation, only small volumes of additional water will be required. Even under drought conditions less than the above total volume will be required per annum.

SEP 14 1989



Scale: 2 inches equal 1 mile.

SEP 14 1989

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

J. Tubo V. P. Glamis Inc.
(Applicant)

3-5-87 10:00 am
Received by Mr. [Signature] Date 3/20/87 Time 1:45 PM Preliminary check by [Signature] Proposed Priority 2/20/87
Fee \$ 4500 Receipted by [Signature] # 42291 Date 3/9/87
Publication prepared by [Signature] Date 3/26/87 Published in Idaho Co. Free Press
Publication approved [Signature] Date 4/3/87

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 82-7155, and said application is hereby APPROVED

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before June 1, 19 89.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other: Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.

The issuance of this permit in no way grants any right-of-way or easement across the land of another.

Prior to the diversion of water under this permit a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.

In the event that water used under this permit should be discharged into a natural channel, settling ponds will be required which are capable of reducing the silt load to such a level that the quality of the water would not be impaired for other beneficial uses.

Water used under this permit if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.

Witness my hand this 12th day of May, 1987.

[Signature]
Chief, Operations

MICROFILMED

SEP 14 1989



State of Idaho

DEPARTMENT OF WATER RESOURCES

NORTHERN REGION, Suite 210 • 1910 Northwest Blvd. • Coeur d'Alene, Idaho 83814 • (208) 765-4639

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

June 8, 1989

U.S. Forest Service
NezPerce National Forest
Rt. 2 Box 475
Grangeville, Id. 83530

Re: 82-7186

Gentlemen:

Enclosed is a recent filing with this Department that may be of interest to your agency.

Sincerely,

ROBERT G. HAYNES, P.E.
Regional Manager

RGH/pms

Enc. - Appln.

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SEP 14 1989





IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707

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JUN 06 1989

Department of Water Resources

June 4, 1989

Mr. Gary Spackman, Manager
Water Right Permits Section
Idaho Department of Water Resources
Statehouse Mall
Boise, ID 83720

Dear Gary:

Enclosed for your review is a copy of "Findings of no Significant Impact" for the Crooked River satellite facilities. This document includes correspondence from the Division of Environment, Idaho Department of Health and Welfare.

Also enclosed is a copy of our correspondence with the Idaho County Commission regarding this facility. I will forward any comments from the County Commissioners as soon as they are received in this office.

Thank you for your support on this projects.

Sincerely,

Philip G. Jeppson
Engineering Supervisor
Bureau of Engineering

PGJ:Q

Encs.

Cecil D. Andrus / Governor
Jerry M. Conley / Director



MICROFILMED

SEP 14 1989

*See file for
82-7185
info described
here -
KW*

MEMORANDUM

TO: File no. 82-7185
FROM: Gary Spackman *Gary*
DATE: June 1, 1989
RE: Letter dated May 4, 1989 requesting information under Rule 4,5 of the Water Appropriation Rules and Regulations

I spoke with Mr. Philip Jeppson, Engineer for the Department of Fish & Game, about two fish rearing projects proposed on Crooked River in Idaho County. Application no. 82-7185 proposes the diversion of 10 cfs for operation of a fish trap near the mouth of Crooked River. Another application, which I do not know the number of, proposes diversion of water for rearing of fry salmon.

Mr. Jeppson and I discussed the submittal of information which I had requested. He stated that the use would be totally non-consumptive, and that between the diversion and discharge points of both projects, there were no other water users that would be impacted. He also stated that water levels in Crooked River would not fluctuate as a result of the operation. In addition, Mr. Jeppson stated that Fish & Game would not dewater Crooked River. The diversion structures that are proposed are grates mounted parallel to the stream bank, with no alteration in the stream channel itself to channel the water towards the inflow grates. As a result, the flows in the river could drop to levels where the grating would be high enough that very little water would flow through it. In periods of low flow, Fish & Game plans to release reared fish a little earlier to prevent diversion of water when flows in Crooked River are undesirably low.

It is important that a minimum streamflow remain in the stream. Fish & Game states that one-third of the salmon returning must be allowed to swim past the catch basin. Mr. Jeppson stated that 3-5 cfs would be required for the fish passage.

A condition should be imposed as follows:

A. Minimum streamflows shall be maintained in Crooked River to allow year round migration of fish from the point of discharge upstream to the point of diversion.

Finally, Mr. Jeppson stated that he would seek comments from the Idaho County Commissioners, and obtain copies of correspondence with the Division of Environmental Quality, Idaho Department of Health and Welfare. We should hold this file for thirty days, and then call it up again for inspection. **MICROFILMED** SEP 14 1989

CLEARWATER RIVER BASIN

13337520 CROOKED RIVER NEAR MOUTH NEAR ELK CITY, ID

WATER-QUALITY RECORDS

LOCATION.--Lat 45°49'19", long 115°31'37", in SW 1/4 NW 1/4, sec.25, T.29 N., R.7 E., Hydrologic Unit 17060305, in Idaho county. Temperature recorder is on right bank 600 ft west of Crooked river road, 1,000 ft upstream from mouth and approximately 5.5 mi west of Elk City.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1984 to current year.

INSTRUMENTATION.--Temperature recorder since July 1984.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 22.0° C July 27, 1987; minimum, 3.0° C Sept. 29-30, 1985.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum 22.0° C July 27; minimum, 7.5° C Sept. 17-18, 28-30.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	17.5	13.5	19.5	12.5	19.0	13.0
2					---	---	19.0	13.5	19.0	12.0	18.0	14.0
3					---	---	19.5	14.0	19.5	12.0	17.5	12.5
4					---	---	18.5	12.5	20.5	13.0	16.5	10.5
5					---	---	16.0	12.5	20.5	13.5	17.0	10.5
6					---	---	17.5	10.5	20.0	13.5	17.5	10.5
7					---	---	18.0	12.5	20.0	13.0	17.5	11.0
8					---	---	19.0	13.0	20.5	13.5	17.5	10.5
9					---	---	17.0	12.5	21.0	14.5	17.5	11.0
10					---	---	14.5	12.0	20.5	15.0	17.5	11.0
11					---	---	17.5	11.0	19.5	13.5	18.0	11.0
12					---	---	18.5	11.0	17.0	13.5	18.0	11.0
13					---	---	19.5	11.5	15.5	13.5	17.0	11.0
14					---	---	20.0	12.5	17.0	13.5	17.5	11.0
15					---	---	20.5	14.0	16.0	13.0	13.5	10.5
16					---	---	18.0	12.5	16.5	12.5	13.5	9.5
17					---	---	15.0	12.0	17.5	11.0	13.5	7.5
18					12.0	11.0	12.5	11.0	18.0	11.0	13.5	7.5
19					15.0	10.0	14.5	10.0	18.5	11.5	14.5	8.0
20					15.5	9.5	16.0	10.5	19.0	12.5	15.0	8.0
21					13.0	10.0	15.5	11.0	19.0	12.5	15.5	8.5
22					13.0	9.5	17.0	12.5	18.5	12.0	15.0	8.5
23					13.0	8.5	19.0	12.0	16.0	14.0	15.0	9.0
24					16.5	7.5	20.0	12.5	17.0	13.5	16.0	9.5
25					18.0	9.0	19.5	14.5	17.5	12.5	12.5	10.0
26					19.0	10.5	21.0	13.5	19.0	13.0	11.0	9.5
27					20.0	12.0	22.0	14.5	15.5	12.0	14.0	8.5
28					20.5	13.0	19.5	16.0	18.5	11.0	13.5	7.5
29					20.5	13.0	21.5	14.0	19.0	12.5	14.0	7.5
30					20.0	13.5	21.5	16.0	19.5	12.5	14.0	7.5
31					---	---	20.0	15.5	19.5	12.5	---	---
MONTH					20.5	7.5	22.0	10.0	21.0	11.0	19.0	7.5

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SEP 14 1989

CLEARWATER RIVER BASIN

13337510 CROOKED RIVER NEAR OROGRANDE, ID

WATER-QUALITY RECORDS

LOCATION.—Lat 45°42'57", long 115°32'21", in NW¹/₄ SE ¹/₄, sec. 31, T.28 N., R.7 E., Hydrologic Unit 17060305, in Idaho County. Temperature recorder is on left bank 300 ft southeast of Crooked River Road, 400 ft upstream from Five Mile Creek, and 0.75 mi north of Orogrande.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURES: July 1984 to current year.

INSTRUMENTATION.—Temperature recorder since July 1984.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURES: Maximum, 19.5° C Aug. 12, 1984; minimum, 1.0° C Sept. 28-29, 1984.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURES: Maximum, 18.0° C Aug. 8; minimum, 3.5° C Sept. 17-18.

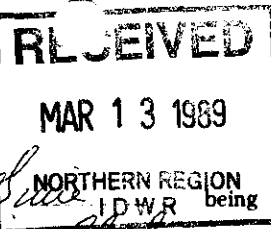
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	14.0	10.5	16.5	8.5	15.0	9.5
2					---	---	15.0	11.0	16.5	8.0	16.0	11.0
3					---	---	15.5	9.5	17.0	8.0	14.0	9.0
4					---	---	15.0	9.5	17.5	8.5	14.5	7.5
5					---	---	11.5	9.0	17.5	9.5	15.0	7.5
6					---	---	13.5	7.5	16.5	9.5	14.5	7.5
7					---	---	13.0	9.5	17.0	9.0	15.5	7.5
8					---	---	14.5	9.5	18.0	9.5	15.0	7.5
9					---	---	12.5	9.0	16.5	10.0	15.5	8.0
10					---	---	10.0	8.5	17.5	10.5	15.0	8.0
11					---	---	13.0	7.5	15.5	9.5	15.0	7.5
12					---	---	15.5	7.5	13.5	8.5	15.0	7.5
13					---	---	16.5	8.0	11.5	9.0	14.5	7.5
14					---	---	17.5	9.0	13.5	9.5	14.5	7.5
15					---	---	18.0	10.5	13.0	9.0	9.0	7.5
16					---	---	15.0	9.0	14.0	7.5	10.5	5.5
17					---	---	11.5	9.0	14.5	6.5	11.0	3.5
18					8.5	---	9.0	7.5	15.0	6.5	11.0	3.5
19					10.0	7.0	11.5	6.5	15.5	7.0	11.5	4.5
20					12.5	6.5	13.5	7.0	16.0	8.5	12.0	4.5
21					9.5	7.5	13.5	8.0	15.5	8.0	12.5	4.5
22					9.0	6.5	14.5	10.0	15.0	8.0	12.5	5.0
23					9.0	5.0	16.0	8.5	12.5	10.0	13.0	6.0
24					12.5	5.0	17.5	9.0	15.0	9.5	13.5	6.5
25					14.0	6.0	16.5	11.0	14.5	8.0	11.0	7.0
26					15.5	8.0	18.5	10.0	15.5	7.5	9.0	6.5
27					16.0	9.0	19.0	11.0	14.5	8.0	11.0	5.0
28					16.5	10.0	16.0	12.0	16.0	8.0	10.5	4.0
29					16.0	10.0	18.0	11.0	16.5	8.5	11.0	4.0
30					17.5	10.5	18.0	12.0	17.0	8.5	11.5	4.5
31					---	---	18.0	11.5	17.0	9.0	---	---
MONTH					17.5	5.0	19.0	6.5	18.0	6.5	16.0	3.5

MICROFILMED

SEP 14 1989

Affidavit of Publication



No 19585

STATE OF IDAHO,
COUNTY OF TWIN FALLS

ss.

MAR 13 1989

I, Linda Copps McQuinn Notary Public being first duly sworn upon oath, depose and say that I am Public Clerk of the TIMES-NEWS, published daily, at Twin Falls, Idaho, and do solemnly swear that a copy of the notice of advertisement, as per clipping attached, was published in the regular and entire issue of said newspaper, and not in any supplement thereof, for Two consecutive weeks, commencing with the issue dated March 2, 1989, and ending with the issue dated March 9, 1989.

And I do further certify that said newspaper is a consolidation, effective February 16, 1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin Falls News, published theretofore daily except Monday, both of which newspapers prior to consolidation had been published under said names in said city and county continuously and uninterruptedly during a period of more than twelve consecutive months, and said TIMES-NEWS, since such consolidation, has been published as a daily newspaper except Saturday, until July 31, 1978, at which time said newspaper began daily publication under said name in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week has been designated as the day on which legal notice by law or by order of any court of competent jurisdiction within the state of Idaho, to be published weekly, will be published; and that said Thursday is the editorial column of said combined newspapers, and in each issue thereof said Thursday is designated as the day on which said legal notices will be published.

MICROFILMED

SEP 14 1989

Subscribed and sworn to before me on this 10 day of

Linda Copps McQuinn
March, 1989
Sheva R. Feltman

Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

STATE OF IDAHO
COUNTY OF }

On this 10 day of March in the year of 1989, before me,

MICROFILMED
a Notary Public, personally appeared Shirley Capps McRae
the person whose name subscribed to the within instru-
ment, and being duly sworn, declared that the statements therein are true,
and acknowledged to me that he executed the same.

SEP 14 1989

Sheva R. Feltman
Notary Public for Idaho

Residing at Twin Falls County,

My commission expires: 5/19/94

03/11/89 AM

SEP 14 1989

TRIBUNE PUBLISHING COMPANY, INC.
The Lewiston Morning Tribune
505 C St., P.O. Box 957
Lewiston, Idaho 83501
(208) 743-9411

Date 052589 INVOICE No. L00163153

Account No. 96475 13-07654

Description 63153NOTIC

Times 2 Lines 55

Tab Lines

**LEGAL ADVERTISING
INVOICE**

SOLD TO: STATE OF IDAHO
DEPT. OF WATER RESOURCES
4055 GOVERNMENT WAY
COEURDALENE
ID 83814

\$ 55.00

RECEIVED

MAY 31 1989

NORTHERN REGION

NOTICE: This is an invoice of Purchase made by you. Statement will be rendered the first of the month.
Please Retain This Invoice as Your Statement Will Refer To Invoice by No. Only.

AFFIDAVIT OF PUBLICATION

NOTICE OF APPLICATION FOR WATER RIGHT
The following application(s) have been filed to appropriate the public waters of the State of Idaho:

WATER FARM, INC.
10000 N. 1000 E. ST.
LEWISTON, IDAHO 83501

TRIBUTARY: COLUMBIA RIVER
LOT 7 (OWNED BY T2EN R 01W)

SWSW SENE NWSE
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STATE OF IDAHO, ss.
County of Nez Perce

Sue Baumeister

being duly sworn,

is and says, I am the Legal Clerk
Tribune Publishing Company, a corporation organized and existing
and by virtue of the laws of the State of Idaho, publishers of the
LEWISTON MORNING TRIBUNE, a newspaper of general circulation
located at Lewiston, Nez Perce County, Idaho; That the said Lewiston
Morning Tribune is an established paper and has been published regular-
ly issued regularly at least once a day for more than 21 consecutive
text immediately preceding the first publication of this notice, and
has been published uninterrupted for said period; that the

NOTICE OF APPLICATION FOR

published hereto and which is made a part of this affidavit was published in
the Lewiston Morning Tribune, 2 time(s). Publication be-
gan on 051889

WEEK for 2 consecutive WEEKS or once a
week, the first
publication thereof being on the 051889, and the last pub-
lication thereof being on the 052589, and said

NOTICE OF APPLICATION FOR

published in the regular and entire issue of said newspaper and
as a supplement thereof and was so published in every issue and
in the said paper, during the period and times of publication as
above.

Sue Baumeister

DEPOSED AND SWORN BEFORE ME THIS THE 25

1989

SEP 14 1989

Notary Public in and for the State of Idaho,
residing at Lewiston, therein.

Proof of Publication

The Post-Register

State of Idaho, }
County of Bonneville } ss

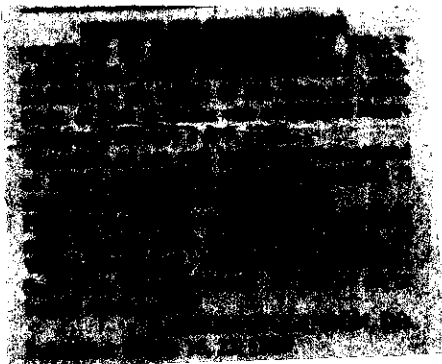
I, ... Ted Delezene, first being duly sworn, depose and say: That I am the Foreman of The Post Company, a corporation of Idaho Falls, Bonneville County, Idaho, publishers of The Post-Register, a newspaper of general circulation, published daily, except Saturday, at Idaho Falls, Idaho; said Post-Register being a consolidation of the Idaho Falls Times, established in the year 1890, The Idaho Register, established in the year 1880 and the Idaho Falls Post, established in 1903, such consolidation being made on the 1st day of November, 1931, and each of said newspapers have been published continuously and uninterruptedly, prior to consolidation, for more than seventy-eight (78) weeks and said Post-Register having been published continuously and uninterruptedly from the date of such consolidation, up to and including the last publication of notice hereinafter referred to.

That the notice, of which a copy is hereto attached and made a part of this affidavit, was published in said Post-Register for two consecutive weeks, first publication having been made on the 16th day of March , 19.89. , last publication having been made on the 23rd day of March , 1989. , and that the said notice was published in the regular and entire issue of said paper on the respective dates of publication, and that such notice was published in the newspaper and not in a supplement.

Subscribed and sworn to before me, this .. 27th. day of March , 19.89. .

Ted Delezene
.....
George K. Napier
.....
Notary Public

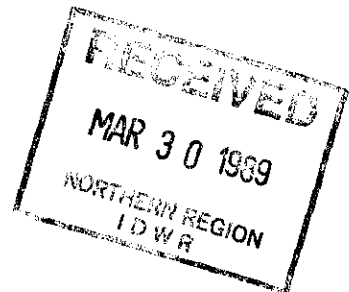
My commission expires . September 30, ... , 1994 ..



AK
3/31/89

MICROFILMED

SEP 14 1989



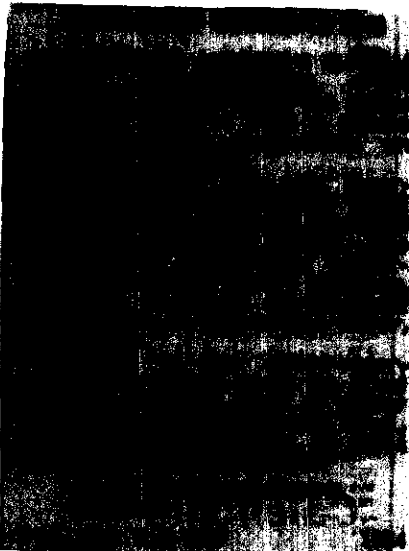
The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

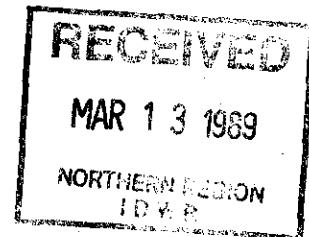
LEGAL ADVERTISING INVOICE

Do not pay until...

Account Name Idaho Department of Water Resources (Northern)		Account Number #100631	
Address 1910 Northwest Blvd., Suite 210		City/State Coeur d'Alene, ID	Zip 83814
Ordered By Patricia Stypa	P.O. Number	Rate NT	Run Dates 1989 March 2, 9
Identification Notice of Correction: Permit No. 82-7186		Estimated Inches	Real Inches
1 Number of Affidavits Requested			Legal Number #1984



STATE OF IDAHO)
) ss.
COUNTY OF ADA)



Debbie Richards, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for 2
☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of March 2, 19 89
and ending with the issue of March 9, 19 89

Debbie Richards

Subscribed and sworn to before me this 9th

day of March

MICROFILMED 89

SEP 14 1989

[Signature]
Notary Public for Idaho, Residing at Boise, Idaho

*Called paper on 3/14/89 -
Came then found they
will credit our amount for
this billing.*

3/14/89

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW.

(For additional information concerning the property location, call the Northern Regional Office at 765-4639.)

Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before June 5, 1989.

R. KEITH HIGGINSON, Dir.

Published in the Lewiston Tribune on May 18 & 25, 1989.

MICROFILMED

SEP 14 1989

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW.

Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before March 20, 1989.

R. KEITH HIGGINSON, Dir.

Published in the Lewiston Morning Tribune on 3/2 & 9/89.

*Page paid
never received*

MICROFILMED

SEP 14 1989

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of the State of Idaho Dept. of Fis & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW.

Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before April 3, 1989.

R. KEITH HIGGINSON, Dir.

Published in the Post Register on 3/16 & 23/1989.

MICROFILMED
SEP 14 1989

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW.

Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before March 20, 1989.

R. KEITH HIGGINSON, Dir.

Published in the Times-News on 3/2 & 9/89.

MICROFILMED
SEP 14 1989

NOTICE OF CORRECTION

NOTICE IS HEREBY GIVEN THAT APPLICATION FOR PERMIT NO. 82-7186 in the name of Idaho Dept. of Fish & Game was advertised incorrectly on February 2 & 9, 1989.

The place of use was incorrectly advertised as T28N R08E S30; whereas, correctly it should be T28N R08E S30 NWSW. The source was incorrectly advertised as Crooked River; whereas, correctly it should be Crooked River, Trib. to Clearwater River, South Fork.

Protests to the above-referenced correction must be filed with the Director, Dept. of Water Resources, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Id. 83814 on or before March 20, 1989.

R. KEITH HIGGINSON, Dir.

Published in the Idaho Statesman on 3/2 & 9/89.

MICROFILMED

SEP 14 1989



State of Idaho
DEPARTMENT OF WATER RESOURCES
NORTHERN REGION, Suite No. 9 • 4055 Government Way • Coeur d'Alene, Idaho 83814 • (208) 765-4639

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

Dear Applicant:

The Department of Water Resources acknowledges receipt of your water right application for permit.

This office is currently in the process of advertising the application in the local county newspaper. The advertisement will be published for two weeks, and a period of ten days following the second publication will be allowed for the submittal of protests.

If the application is protested, you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

If the application is not protested, it will be forwarded to our state office in about five weeks. State office personnel will conduct a complete review prior to the final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A typical processing time for an unprotested application is about eight weeks.

Enclosed please find your receipt for the fee involved in filing this application.

Please feel free to contact this office if you have any questions regarding this procedure.

Sincerely,

ROBERT G. HAYNES, P.E.
Regional Manager

RGH/pms
Enc. - Receipt



MICROFILMED
SEP 14 1989

Proof of Publication

The Post-Register

State of Idaho, }
County of Bonneville } ss

I, ... Dick Hardy, first being duly sworn, depose and say: That I am the
..... Asst. Foreman of The Post Company, a corporation of Idaho Falls, Bonneville
County, Idaho, publishers of The Post-Register, a newspaper of general circulation, published daily, except
Saturday, at Idaho Falls, Idaho; said Post-Register being a consolidation of the Idaho Falls Times, established in
the year 1890, The Idaho Register, established in the year 1880 and the Idaho Falls Post, established in 1903,
such consolidation being made on the 1st day of November, 1931, and each of said newspapers have been
published continuously and uninterruptedly, prior to consolidation, for more than seventy-eight (78) weeks and
said Post-Register having been published continuously and uninterruptedly from the date of such consolidation,
up to and including the last publication of notice hereinafter referred to.

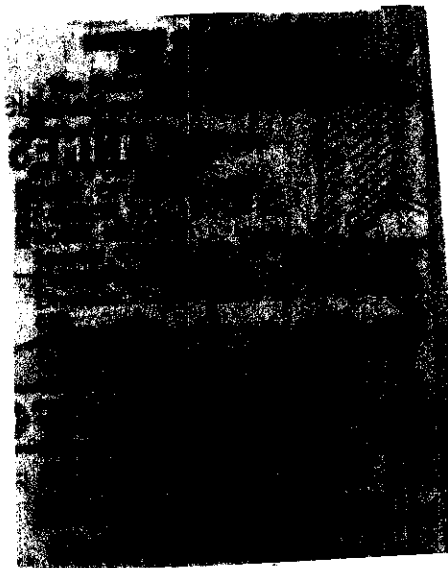
That the notice, of which a copy is hereto attached and made a part of this affidavit, was published in
said Post-Register for two consecutive weeks, first publication having been made
on the 2nd day of February, 19.89., last publication
having been made on the 9th day of February, 19. 89., and that the
said notice was published in the regular and entire issue of said paper on the respective dates of publication, and
that such notice was published in the newspaper and not in a supplement.

Subscribed and sworn to before me, this ... 27th day of February, 19. 89.

Dick Hardy
Deont Napier
Notary Public

My commission expires . September . 30, ..., 1994 ..

B10



MICROFILMED

SEP 14 1989

[illegible]

85

I, Xenia Copp

oath, depose and say that I am Paul J. [unclear] of the TIMES-NEWS,
published daily, at Twin Falls, Idaho, and do solemnly swear that a copy of
the notice of advertisement, as per clipping attached, was published in the regular and
entire issue of said newspaper, and not in any supplement thereof, for Two
consecutive Weeks, commencing with the issue dated

consecutive Weeks, commencing with the issue dated February 2, 1989, and ending with the issue dated March 9, 1989.

And I do further certify that said newspaper is a consolidation, effective February 16, 1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin Falls News, published theretofore daily except Monday, both of which newspapers prior to consolidation had been published under said names in said city and county continuously and uninterruptedly during a period of more than twelve consecutive months, and said TIMES-NEWS, since such consolidation, has been published as a daily newspaper except Saturday, until July 31, 1978, at which time said newspaper began daily publication under said name in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week has been designated as the day on which legal notice by law or by order of any court of competent jurisdiction within the state of Idaho, to be published weekly, will be published; and I, as the head of the editorial column of said combined newspapers, and in each issue thereof, I have pronounced as the day on which said legal notices will be published.

Subscribed and sworn to before me on this 9 day of February, 1989.
SEP 14 1994

Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

STATE OF IDAHO
COUNTY OF

SEP 14 1989

On this 9 day of February in the year of 1989, before me,
a Notary Public, personally appeared Leola Lynn McQuire
known or identified to me to be the person whose name subscribed to the within instru-
ment, and being by me first duly sworn, declared that the statements therein are true,
and acknowledged to me that he executed the same.

Bonnie Schuch
Notary Public for Idaho

Residing at

Twain Falls
My commission expires: 9-6-94

AFFIDAVIT OF PUBLICATION

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been
filed to appropriate the public waters of
the State of Idaho:

82-07185
STATE OF IDAHO, DEPT. OF FISH &
GAME, P.O. BOX 25, BOISE, ID 83707
Source: CROOKED RIVER
Tributary: CLEARWATER RIVER
SOUTH FO
Diversion Pt: SWNESE Sec 25 T 29N R
07E

Use: FISH PROPAGATION (10,000
CFS)

Date Filed: 1/23/1989

In: T29N R07E S25

82-07186

STATE OF IDAHO, DEPT. OF FISH &
GAME, P.O. BOX 25, BOISE, ID 83707
Source: CROOKED RIVER
Tributary: CLEARWATER RIVER
SOUTH FO

Diversion Pt: SWNWSW Sec 30 T 28N
R 08E

Use: FISH PROPAGATION (12,000
CFS)

Date Filed: 1/23/1989

In: T28N R08E S30 NWSW

The permit(s) will be subject to all prior
water rights. Protests must be filed with
the Director, Dept. of Water Resources,
Northern Region, 1910 Northwest Blvd.,
Suite 210, Coeur d'Alene, Idaho 83814,
on or before FEBRUARY 21, 1989.

R. KEITH HIGGINSON, Director
Published 2/01/1989 & 2/08/1989

F1-8

STATE OF IDAHO

County of Idaho - ss.

Charlotte Sotin

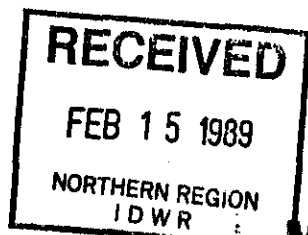
....., being
first duly sworn, says she is the... Bookkeeper..... of the
IDAHO COUNTY FREE PRESS, a weekly newspaper published
and issued weekly at Grangeville, Idaho county, State of Idaho,
and is of general circulation in said county and state, that the
said notice, of which the one hereto attached is a true copy, was
published in said paper for two..... weeks, being published
.....two..... times, the first publication being on the
.....1st..... day of February....., 1989,
and the last publication on the.....8th..... day of
.....February....., 1989....; that the said notice was
published in the newspaper proper and not a supplement; that
said newspaper has been continuously and uninterruptedly
published in said county during a period of seventy-eight
consecutive weeks prior to the publication of said notice or
advertisement.

Charlotte Sotin

STATE OF IDAHO }

COUNTY OF }

On this.....8th..... day of February..... in the year
of.....1989....., before me, a Notary Public, personally
appeared Charlotte Sotin....., known or
identified to me to be the person whose name subscribed to the
within instrument, and being by me first duly sworn, declared
that the statements therein are true, and acknowledged to me
that he executed the same.



MICROFILMED

SEP 14 1989

Notary Public for Idaho
Residing at Grangeville, Idaho
My commission expires: 9/10/92

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

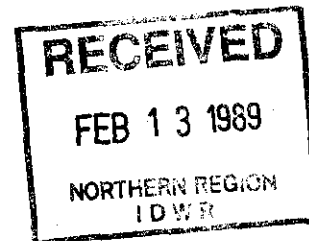
LEGAL ADVERTISING INVOICE

Amount Due

3468

Account Name Idaho Department of Water Resources (Northern)			Account Number #100631	
Address 1910 Northwest Blvd., Suite 210		City/State Coeur d'Alene, ID		Zip 83814
Ordered By Patricia Stypa	P.O. Number	Rate NT	Run Dates 1989 February 2, 9	
Identification Application for Water Right: 82-07186			Estimated Inches	Real Inches
1 Number of Affidavits Requested				Legal Number #1757

STATE OF IDAHO)
) ss.
COUNTY OF ADA)



Debbie Richards, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for 2 ☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of February 2, 1989
and ending with the issue of February 9, 1989

Debbie Richards

Subscribed and sworn to before me this 9th

day of February, 1989

MICROFILMED

SEP 14 1989

Timber Rice 12/93

Notary Public for Idaho, Residing at Boise, Idaho

*No tributory
P/W no 40- and
tail*

82-07186

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83707

Source: CROOKED RIVER

Tributary: CLEARWATER RIVER, SOUTH FO

Diversion Pt: SWNWSW Sec 30 T 28N R 08E

Use: FISH PROPAGATION (12.000 CFS)

Date Filed: 1/23/1989

In: T28N R08E S30 NWSW

MICROFILMED

SEP 14 1989

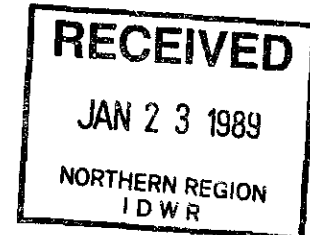
IDAHO FISH & GAME

600 South Front / Box 25
Boise, Idaho 83707

January 12, 1989

Idaho Department of Water Resources
4055 Government Way
Coeur d'Alene, ID 83814

Gentlemen:



New Water Right Application

Enclosed are a Water Right Application for the new Crooked River Juvenile Rearing Facility and the application fee in the amount of \$265.00. Also enclosed are a site plan and a copy of the Special Use Permit between the U. S. Forest Service and the Army Corps of Engineers/Idaho Department of Fish and Game. (The Corps will own the facility and the Department of Fish and Game will be the operating agency.)

This facility consists of a gravity diversion, two concrete rearing raceways, earthen sedimentation basin, concrete clarification basin for vacuum cleaning wastes, and fish release pipelines. The raceways are sized at 20 feet wide by 145 feet long by 3.0 feet average water depth, for a total usable volume of 17,400 cubic feet. These raceways are designed to rear up to 750,000 Spring Chinook Salmon to a size of 30 per pound.

Bid opening for this project is scheduled for March 1, 1989. It is anticipated that the facility will be ready for stocking with fry in the spring of 1990.

Please advise if more information is needed.

Sincerely,

A handwritten signature in dark ink, appearing to read "Philip G. Jeppson".

Philip G. Jeppson
Fish and Game Engineer Supervisor

PGJ:Q

Encs.

c Mr. Joe McMichael, Corps of Engineers

Cecil D. Andrus / Governor
Jerry M. Conley / Director



MICROFILMED

SEP 14 1989