

Certificate of Water Right

STATE OF ARIZONA

Counties of Graham and Pinal

Certificate No. 87114.0000

**Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004**

This is to Certify, That the United States Department of Interior, Bureau of Land Management, Safford District, of Safford, State of Arizona, has made proof to the satisfaction of the DEPARTMENT OF WATER RESOURCES of Arizona, of a right to the use of the waters flowing in Aravaipa Creek, a tributary of the San Pedro River, within the San Pedro River watershed, for recreation and wildlife, including fish, under Application No. 33-87114.0000 Permit No. 33-87114.0000 of the DEPARTMENT OF WATER RESOURCES and that said right to the use of said waters has been perfected in accordance with the laws of Arizona, and made and entered of record in the Records of the Department of Water Resources at Phoenix, Arizona, under Certificate No. 87114.0000; that the priority of the right hereby confirmed dates from June 1, 1981; that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed an amount expressed as specific flow rates and cumulative totals as measured at Aravaipa Creek, in the Northeast quarter (NE¼), Section 19, Township 6 South, Range 19 East, near Klondyke, Arizona. The specified flow rates (cubic-feet/second) at the gage site, expressed as a monthly flow, are as follows:

FLOW RATE (cubic-feet/second)

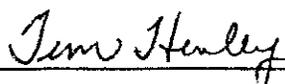
<u>MONTH</u>	<u>Median Flow (CFS)</u>	<u>Monthly Volume acre-feet/month</u>
January	20.0	1230.0
February	25.0	1387.5
March	20.0	1230.0
April	10.0	595.0
May	10.0	615.0
June	9.0	535.5
July	10.0	615.0
August	20.0	1230.0
September	11.0	654.5
October	15.0	922.5
November	10.0	595.0
December	20.0	<u>1230.0</u>
Volume (acre-feet/year)		10,840.0

A description of the lands under such right, and to which the water hereby confirmed is appurtenant and put to beneficial use, is as follows: The beneficial use will occur instream along the meandering course of Aravaipa Creek. The instream use will begin at a point within the Northeast quarter of the Southwest quarter (NE¼SW¼), Section 19, Township 6 South, Range 19 East, Graham County, continuing downstream to the ending point located within the Southwest quarter of the Southeast quarter (SW¼SE¼), Section 13, Township 6 South, Range 17 East, Gila and Salt River Base and Meridian, Pinal County, Arizona.

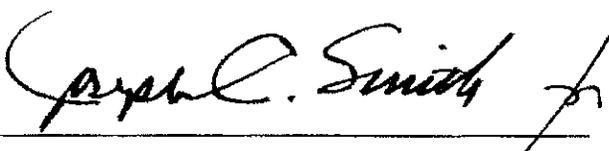
The right to the use of water aforesaid hereby confirmed is restricted to the places of use herein described: Water will not be diverted from the natural channel. There shall be no impoundments of public water, nor interference with the natural flow of Aravaipa Creek. There shall be no consumptive use of public waters or degradation of water quality, other than is caused by natural habitat (flora and fauna). There shall be no interference with nor detrimental effect upon prior vested rights.

Witness, the seal and signature of the DEPARTMENT OF WATER RESOURCES,

affixed this 14th day of March, 1996.



Tim Henley, Manager (Attest)
Surface Water Section



Rita P. Pearson
Director

The Department of Water Resources must be notified if a change of address is made by the above named person(s) or if ownership of the land or of the water right is conveyed to another person(s), pursuant to A.R.S. § 45-164, B.

**ARIZONA DEPARTMENT OF WATER RESOURCES
SURFACE WATER RIGHTS UNIT**

500 North Third Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2422



HIFE SYMINGTON
Governor

RITA P. PEARSON
Director

March 29, 1996

Bureau of Land Management
Attn: Delbert Molitor
711 14th Avenue
Safford, Arizona 85546

RE: Certificate No. 87114.0000

Dear Certificate Holder:

The Director of the Department of Water Resources is pleased to forward the enclosed Certificate of Water Right for your records. A certificate is evidence of your right to use a given amount of public waters of the State for a certain beneficial use at a specified location. You may wish to record the certificate with your County Recorder for the county in which the water right is located. A copy of each water right certificate is maintained in the official records of the Department.

Please note that the right to the use of water as evidenced by a certificate is not absolute; the basis, measure, and limit of any water right granted under provisions of the Public Water Code is the amount actually put to the stated beneficial use, but never more than the amount stated in the certificate. In addition, your water right is given a date of priority, the filing date of the original application, as a means of ranking the water right in relation to all other water rights within a specific watershed. Your water right is subject to prior-vested water rights. For purposes of management of the available water resource in times of scarcity, water rights senior in time to your water right could have "first call" on the available supply of public water; senior water rights could prohibit your use of the water resource until their water rights are satisfied.

The watershed in which your water right is located is undergoing a Superior Court judicial proceeding. This proceeding, called a "water rights adjudication," is a quantification and ranking of all water rights located within the watershed. To participate in the adjudication, you must file a claim with the superior court. If you have not yet taken action to join the court proceedings, you may wish to do so to protect your water right.

Questions concerning the nature of your water right may be addressed to the Community Services Section, Surface Water Unit. Questions concerning the water rights adjudication proceedings may be addressed to the Department's Adjudication Division. The Department cannot give legal advice. If you are concerned about how the adjudication will affect your rights, you may wish to consult an attorney experienced in water rights matters.

Yours truly,

Miros Gutierrez
Surface Water Rights Specialist

MG:hs
Enclosure

FM00067

**DEPARTMENT OF WATER RESOURCES
HYDROLOGY DIVISION**

MEMORANDUM

TO: File

FROM: Kim Mitchell

DATE: March 19, 1996

RE: Proof of Appropriation of Water for Aravaipa Creek, Permit No. 33-87114
BLM - Safford District

I spoke with Del Molitor today (BLM - Safford District Office) concerning an error in the above-referenced Proof of Appropriation. Item #7 of the form asks for the specific quantity of water that has been applied to each beneficial use. Per our phone conversation, this has been amended to read, "10,840 acre-feet/year to be used for recreation and wildlife, including fish". The reason for this change is explained below.

The Permit No. 33-87114 was issued for 10,840 acre-feet/annum expressed as monthly averages of continuous flows to be used for the beneficial uses stated above. These flows were justified with extensive hydrologic and biological analyses. The Proof of Appropriation Item #7 mistakenly listed "3,620 acre-feet for recreation and 7,240 acre-feet for wildlife, including fish". As worded, it would appear that the maximum annual flow needed to maintain wildlife and fishery habitats is 7,240 acre-feet, however, all supporting documentation list the 10,840 acre-feet/annum to maintain the necessary flows. For this reason, Del Molitor agreed to amend the Proof of Appropriation to reflect the permitted amount.

ARIZONA DEPARTMENT OF WATER RESOURCES

HYDROLOGY DIVISION

M E M O R A N D U M

TO: Joe Stuart, Surface Water-Community Services
THRU: Drew Swieczkowski, Supervisory Hydrologist
FROM: Andy Kurtz, Hydrologist
DATE: January 10, 1996
RE: Issuance of CWRs for Aravaipa Creek

On January 9, 1996, Herb Dishlip has approved the four Nature Conservancy's and the one BLM instream flow permit to proceed to certificate status. Attached is a brief summary of the Aravaipa applications and justification. You may wish to have copies made for each of the applications.

Recently, Darlene and Miros prepared a draft CWR for each of the applications. They should be finalized and delivered for Herb's signature. I have not checked the drafts for correctness, except for the flow amounts.

I know there are other steps that must be completed in the "ISF process" before the CWRs will be issued. Upon completion of all tasks, Hydrology would appreciate a copy of the signed CWRs for our files.

REQUESTOR: Miros Gutierrez

COST CENTER: AXM 460

DATE: February 29, 1996

**BILLING REQUEST FORM
REQUISITION/PURCHASE REQUEST NO:**

NAME: Bureau of Land Management

FCA NO: 3

MAILING ADDRESS: 711 14th Avenue

CITY: Safford

STATE: Arizona

ZIP: 85546

PLEASE SEND AN INVOICE TO THE ABOVE ADDRESS FOR THE FOLLOWING:

	COST EACH	TOTAL
FILING & EXAMINATION FEE FOR APPLICATION FOR PERMIT TO APPROPRIATE PUBLIC WATER NO(S) ;	\$	\$
PERMIT FEE FOR PERMIT TO APPROPRIATE PUBLIC WATER NO(S) ;	\$	\$
CERTIFICATE FEE FOR CERTIFICATE OF WATER RIGHT(S) NO(S): <u>33-87114.0000</u> ;	\$50.00	\$50.00
CERTIFICATE FEE FOR REVISED CERTIFICATE OF WATER RIGHT(S) NO(S) ;	\$	\$
APPLICATION & EXAMINATION FEE FOR CLAIM OF WATER RIGHT FOR A STOCKPOND: NO(S) ;	\$	\$

FOR ADMINISTRATION ONLY

DATE RECEIVED _____ INVOICE DATE _____ AMOUNT REC'D _____

REQUESTOR _____ INVOICE NO. _____ CHECK NO. _____

DATE PAYMENT RECEIVED _____ RETURN COPY SENT _____



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Safford District Office

711 14th Avenue

Safford, AZ 85546

(520) 428-4040



In reply refer to:
7250 (045)



February 9, 1996

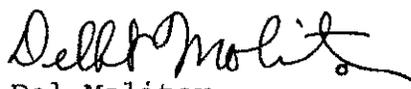
Ms. Miros Gutierrez
Surface Water Rights Specialist
Surface Water Rights Unit
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004

Dear Miros:

In a letter dated February 1, 1996, you stated that the Department of Water Resources was prepared to issue a Certificate of Water Right. The certificate no. is 87114.0000.

Please charge the required \$50.00 fee for the certificate, a total of \$50.00, to the Safford District's fee credit account, FCA-3.

Sincerely,


Del Molitor
Hydrologist

**ARIZONA DEPARTMENT OF WATER RESOURCES
SURFACE WATER RIGHTS UNIT**

500 North 3rd Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2422



February 1, 1996

FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

Bureau of Land Management
Attn: Delbert Molitor
711 14th Avenue
Safford, Arizona 85546

Re: Issuance of Certificate of Water Right No. 87114.0000

Mr. Molitor:

The Department of Water Resources is prepared to issue a Certificate of Water Right for the referenced Permit. The certification fee for each issued Certificate is \$50.00.

Please remit your check to my attention in the amount of \$50.00 to the Department of Water Resources for the certification fee of the certificate.

If you have any questions, please call me at (602) 417-2470.

Yours truly,

A handwritten signature in cursive script that reads "Miros Gutierrez".

Miros Gutierrez
Surface Water Rights Specialist

MG:hs

MEMORANDUM

Date: December 29, 1995
To: Herb Dishlip
Thru: Greg Wallace
From: Andy Kurtz
Re: Aravaipa Creek Instream Flow Claims
33-95771, 33-97488, 33-95489, 33-95490, 33-87114

Aravaipa Creek
Review for Issuance of Certificates of Water Right

Aravaipa Creek The Arizona Nature Conservancy (TANC) & Bureau of Land Management (BLM)		
Permit #	Date of Application (Priority Date)	Date of Permit Issuance
33-95488, Reach D	October 31, 1990	May 29, 1992
33-95489, Reach C	October 31, 1990	May 29, 1992
33-95490, Reach B	October 31, 1990	May 29, 1992
33-95771, Reach A	October 30, 1990	March 9, 1992
33-87114	June 1, 1981	March 17, 1989

Introduction

Found in southeast Arizona is Aravaipa Creek, a perennial stream, tributary to the San Pedro River. For 17 miles the waters flow freely through a remote and scenic environment. The Aravaipa watershed extends over 541 square miles and crosses the boundaries of two counties, Pinal and Graham. Precipitation averages 16 inches annually.

The BLM and the TANC, among other environmental groups, have sought to preserve the Aravaipa Canyon and its environment. Numerous studies have been conducted and extensive data has been collected. Each study has provided a better understanding of the canyon's ecosystem.

The BLM began collecting stream flow data in the 1970s, continuing the effort to present. This

information has helped in the preparation of technical reports and support the BLM's claim of instream flows. Initially, the BLM installed and operated their permanent gage stations, collecting instreamflow data on a continuous basis. Due to numerous floods and the subsequent damage to the gages these streamflow monitor efforts were abandoned. Instead of maintaining and repairing gage stations, the BLM and TANC teamed efforts around 1989 to collect bi-monthly instantaneous streamflow data.

TANC has been collecting instantaneous streamflow data since the early 1980s at four monitor locations along the creek. Two monitor locations are located at the boundaries of the BLM's Aravaipa Wilderness area, one at the upstream end and the other at the downstream end. An additional monitor site is located upstream of the canyon proper, at the "old school house site." The fourth site incorporates the extensive streamflow measurements collected at the USGS stream gage station (#09473000) found on lower Aravaipa Creek, below the BLM wilderness. Interpretation of this data has proven very useful in establishing the current and historic streamflow characterization of Aravaipa Creek.

TANC has determined the median flows for each of the four measurement locations and has presented the results in support of the request for issuance of a CWR for each location. Attached is a flow summary sheet prepared by ADWR that compares requested, permitted, and median flows. All flows requested are less than the median flows available and fall within the optimal range of flows needed to support the existing fisheries.

Water Dependent Resources

Wildlife including Fish:

The applicants have previously provided information on Aravaipa Creek that identifies seven different species of fish, this includes the spokedace, Loach minnow, Sonoran sucker, roundtail chub, mountain sucker, longfin dace, and the speckled dace. Additional wildlife found along the creeks reaches account for 8 species of amphibian, 47 reptiles, 237 birds, and 46 different mammals.

Information has been provided by the applicants that defined the surface water needs of wildlife (specifically fish). An IFIM model was developed to evaluate the flow needs of Aravaipa's native fisheries, and in turn support the application for an instream flow appropriation. Stream transects were established at points along the reaches.

Data collected, interpreted, and evaluated at the transects included: determination of discharge; development of the streambed profile; areal distribution of depth, velocity, and substrate; water surface elevation; determination of river gradient; and the documentation (such as species variability) of other microhabitat features. Suitability Index (SI) Curves and the Weighted Useable Areas (WUA) versus Discharge relationships were evaluated. Attached are some of the optimum flow curves for specific species of fish found within the creek.

Recreation:

The presence of a perennial stream in a desert setting attracts people from all over Arizona, as well as the world (BLM, 1980). Heavy visitor activities include backpacking, photography, birding, swimming, among other interests according to a use survey conducted over a 12 month period in 1987-88, by the BLM. The survey also revealed that 51% of those that had visited the creek before have returned.

The applicants state that the presence of visibly flowing surface water is the dominant driving force for visitor attendance. Any diminishment in the surface flow would in turn reduce the amount of recreational usage.

Surface Water Flow

The waters of Aravaipa Creek, within the canyon, as well as near its entrance and exit are perennial. Farther upstream and downstream of the canyon proper, the creek trends from intermittent to ephemeral. Gage data recorded by the USGS since 1966 illustrate the dependability and availability of flow associated with the canyon. The median flows calculated range from 10 to 40 cfs, averaging 20 to 25 cfs.

Discussion and Miscellaneous Notes:

1. Recreation throughout the Aravaipa canyon and creek area continues to be a dominant use to date.
2. Optimum flows for fish appear to be consistently near about 10 to 20 cfs.
3. Instream flows available are consistently higher than those flows permitted or requested for certification.
4. Flows requested by the BLM differs from that of the TANC at the same monitor points, upstream and downstream boundaries of the wilderness area. This happened because the ISF permit of the BLM was issued before those of the TANC by three years. The methods of measurements and monitor locations between the BLM and the TANC were initially different, until around 1989 when the stream monitoring became a collaborative effort between both parties. It is suggested that the BLM certificated annual total should not exceed the value permitted: 10,840 AFA.
5. Three of TANC's permitted ISF annual totals, not monthly values, were issued in error. This appears to be due to simple math errors. The annual values to be Certificated should be as follows:

	annual permitted	corrected annual total for CWR
#33-95488	13,336 AFA	12,635 AFA
#33-95489	13,578 AFA	13,567 AFA
#33-95490	11,224 AFA	11,213 AFA

6. The special conditions of each of TANC's ISF permits have been adequately met.
7. The special conditions of the BLM's permit have not been completely met. This is due to the abandonment of the east and west gage sites as they were prone to extensive damage from floods. However, flow data was consistently being collected via use of a flow meter every two weeks or so.

Recommendations:

1. Issue CWRs for the four Nature Conservancy ISF applications.
2. Issue CWR for the BLM ISF application.

Review of the Evidence Presented in Support of Request for CWR

Reach A: Monitor Point: USGS Gage (#09473000)

Received: Proof of Appropriation
Affidavit of Appropriator
Analysis of gage data

The Arizona Chapter of the Nature Conservancy filed an instream flow claim October 30, 1991, on Aravaipa Creek. March 9, 1992, the Department issued an ISF permit for the specified instream flow claim. General and specific conditions to be complied with were incorporated within the permit. Eligibility for a Certificate of Water Right required that at a minimum TANC adhere to the specified conditions as shown below:

General Conditions of Each Issued ISF Permit:

1. There shall be no impoundments of the water of Aravaipa Creek nor interference within the natural flow of Aravaipa Creek.
2. There shall be no consumptive use of public waters other than is caused by natural habitat (flora and fauna).
3. There shall be no interference with nor detrimental effect upon vested water rights.
4. Water shall not be diverted from the natural channel.

Special Conditions of each Issued ISF Permit:

In order for each of the permits to be eligible for a CWR the following must have been completed on or before May 29, 1996:

1. Maintain or continue to maintain a record of flow at the stream gaging site.
2. Must submit a minimum of four years of streamflow data
3. Must submit an analysis of the data
4. Must submit a completed Proof of Appropriation
5. Must submit a completed Affidavit of Appropriation.

Reach B: West End BLM Wilderness Area
Reach C: East End BLM Wilderness Area
Reach D: Schoolhouse Area

Received:

Proof of Appropriation
Affidavit of Appropriator
Analysis of and copies of field data

The Arizona Chapter of the Nature Conservancy filed an instream flow claim October 31, 1991, on Aravaipa Creek. May 29, 1992, the Department issued an ISF permit for the specified instream flow claim. General and specific conditions to be complied with were incorporated within the permit. Eligibility for a Certificate of Water Right required that at a minimum TANC adhere to the specified conditions as shown below:

General Conditions of Each Issued ISF Permit:

1. There shall be no impoundments of the water of Aravaipa Creek nor interference within the natural flow of Aravaipa Creek.
2. There shall be no consumptive use of public waters other than is caused by natural habitat (flora and fauna).
3. There shall be no interference with nor detrimental effect upon vested water rights.
4. Water shall not be diverted from the natural channel.

Special Conditions of each Issued ISF Permit:

In order for each of the permits to be eligible for a CWR the following must have been completed on or before May 29, 1996:

1. Maintain or continue to maintain a record of flow at the stream monitor site.
2. Must submit a minimum of four years of streamflow data
3. Must submit an analysis of the data
4. Must submit a completed Proof of Appropriation
5. Must submit a completed Affidavit of Appropriation.

Bureau of Land Management, Aravaipa Canyon Wilderness Area

Received:

Proof of Appropriation
Affidavit of appropriation
Summary of flow data

*** Copies of flow data were previously supplied from the ANC

The Bureau of Land Management applied for an ISF permit on the reach of Aravaipa Creek that run through the wilderness area June 1, 1981. In 1989 an ISF permit was issued to the BLM. Associated with the permit were specific conditions that were to be complied with before the permit could proceed to a certificate. They are as follows:

General conditions of ISF permit:

1. There shall be no impoundments of the water of Aravaipa Creek nor interference within the natural flow of Aravaipa Creek.
2. There shall be no consumptive use of public waters other than is caused by natural habitat (flora and fauna).
3. There shall be no interference with nor detrimental effect upon vested water rights.
4. Water shall not be diverted from the natural channel.

Specific conditions of ISF permit:

The following must be completed not earlier than July 1, 1994 nor later than July 1, 1995.

- commencing immediately the Permittee shall:

1. maintain a record of instream use
2. measure the flow at the East Aravaipa gauging station where Aravaipa Creek enters the Aravaipa Wilderness Area
3. a minimum of two flow measurements shall be taken each month
4. routine gauging station maintenance shall be performed weekly.
5. a record of the instream flows shall be submitted to the Department.

Aravaipa Creek Requested Flows for Issuance of Certificate of Water Right (cfs)					
Month	#33-95490 TANC-D	#33-95489 TANC-C	#33-95488 TANC-B	#33-95771 TANC-A	#33-87114 BLM
October	15.0	18.0	13.4	12.0	15.0
November	15.0	18.0	15.7	14.0	10.0
December	17.0	20.0	17.2	15.0	20.0
January	16.0	19.0	20.4	15.0	20.0
February	18.0	21.0	21.9	16.0	25.0
March	18.0	22.0	19.7	19.0	20.0
April	16.0	19.0	13.1	16.0	10.0
May	14.0	18.0	18.0	13.0	10.0
June	14.0	17.0	15.2	9.3	9.0
July	14.0	17.0	18.0	14.0	10.0
August	15.0	18.0	19.0	14.0	20.0
September	14.0	18.0	18.0	13.0	11.0

Aravaipa Canyon Annual Totals Requested for Certificate (acre-feet per year)					
Annual Totals	#33-95488	#33-95489	#33-95490	#33-95771	#33-87114
	11,213	13,567	12,635	10,273	10,840

APPROVAL FOR CWR ISSUANCE

YES

NO

Herb Dishlip

AD 4/8/96

.....
Greg Wallace

Yes 4/2/96

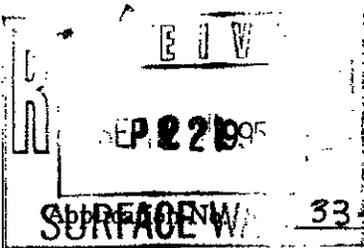
.....
Andy Kurtz

*yes
all five of them*

Comments:

Please return upon review

Date Filed: _____



APPROPRIATION No. 33-87114 Permit No. 33-87114 County Graham and Pinal

PROOF OF APPROPRIATION OF WATER

- Name and address of permit holder: BLM-Safford District
- Source of appropriable (surface) water supply: Aravaipa Creek
 tributary of San Pedro River
- Location of point of diversion:
 GLO Lot # _____, or NW 1/4 SE 1/4, Section 19, Township 6 N/S Range 19E E/W
- Construction of works began on No construction and was completed on _____
- Date water was completely applied to stated beneficial use 6/1/81
- Name, if any, and capacity of reservoir N/A
- Specify quantity of water that has been applied to each beneficial use: 3670 acre-feet for recreation and 7340 acre-feet for wildlife including fish
(acre-feet or gallons)
THIS AMOUNT AMENDED TO READ 10,840 ACRE-FEET/YEAR TO BE USED FOR RECREATION AND WILDLIFE INCLUDING FISH. PER PHONE CONVERSATION WITH DEL HOCTOR, BLM.
- During what months is the water beneficially used? Year-long
- Describe the location where the water is used. If for irrigation, in the column headed "Acres actually irrigated" fill in only the number of acres that have actually been irrigated in that location in the smallest units that will identify them: 3/19/96

Tom Mitchell

GLO Lot #	1/4	1/4	1/4	Section(s)	Township (N/S)	Range (E/W)	Acres Actually Irrigated
	NW	NW	SE	19	6	19	N/A
	NE	NE	SW	19	6	19	
		SW	NW	19	6	19	
	SE	SE	SE	7	6	18	
		SW	SW	8	6	18	
		SE	SW	8	6	18	
		SE	SW	13	6	18	

See Attachment

FM00083

10. (a). If a dam has been constructed, give description: Height, at downstream face N/A ft: **9884**
length on top N/A ft.; length on bottom _____ ft.; material used and character of
construction N/A

(b). Give description of canal headgate: Width N/A ft.; depth _____ ft.; material used and
character of construction, N/A

(c). Size of canal: Width on top (at waterline) N/A ft.; width on bottom, _____ ft.;
depth of water N/A ft.; length _____ ft.; grade, _____ ft. fall per 1,000 ft.
Actual capacity, N/A sec.-ft. Give general description:

(d). Pipe line: Description of intake, N/A

Length of pipe, N/A ft.; diameter at intake, _____ in.; Difference in elevation between
intake and place of use, N/A ft. Actual capacity of pipe line, _____ cubic-feet/second
Give general description: N/A
(material: steel, wrought, cast iron, wood stave, etc.)

(e). Pumping plant: Give size and type of pump, N/A
Type of motor used N/A Horse power rating, _____ H.P. Actual capacity
of pump, _____

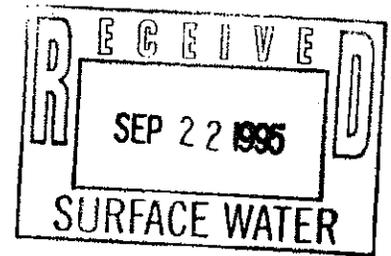
(f). Distribution works: N/A Material _____
(no.) (tanks or troughs)

(dimensions and capacity of each)

11. Domestic Use. State number of families and persons actually served, and describe other domestic uses of water
N/A

12. Stockwatering Use. State kind of stock served N/A
minimum and average number served per day during the months of the year water is used.
Maximum N/A Minimum _____ Average _____

13. If for any purpose other than irrigation, stockwater or domestic, state the extent and nature of such use _____
Instream Flow with wildlife and fisheries and recreational use



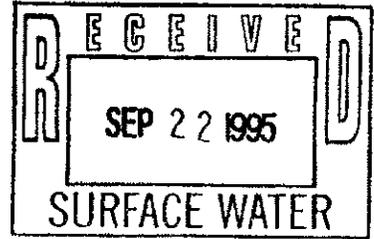
Attachment

Item No. 9. Location Water Used.

SWNW, SENW, NESW, SESW, SWSE, SESE Sec. 14;
SWNE, SENE, SWNW, SENW Sec. 15;
SWNE, SENE, NWNW, SWNW, SENW Sec. 16;
NENE, NWNE, NENW Sec. 17;
NENE, NWNE, SWNE, SENE, SWNW, SENW, NSW Sec. 18;
NENE Sec. 23
NWNE, SWNE, SENE, NENW, NWNW, NESE, NWSE, Sec. 24, T.06S., R.18E.

SWNE, NESE, NWSE, SWSE Sec. 13, T.06S., R.18E.

AFFIDAVIT OF APPROPRIATOR



STATE OF ARIZONA)
County of Graham)ss.

I, Delbert Malitor, being first duly sworn, depose and say that I have read the above and foregoing proof of appropriation of water; that I know the contents thereof, and that the facts therein stated are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 28 day of August, 1995.

Delbert Malitor

Subscribed and sworn to me this 11 day of Sept., 1995

[Notary Seal]

Sandra M. Phillips
Notary Public

My commission expires 07-12-96

AFFIDAVIT OF WITNESS

STATE OF ARIZONA)
County of Graham)ss.

We, Hana West, and Clay Templin

of Thatcher, AZ, being first duly sworn, and depose and say that we are well acquainted with the facts and conditions set forth in the foregoing statement relative to proof of appropriation of water under Permit No. 33-87114, that we and each of us have been over and upon each tract described in said proof, and from such personal inspection have knowledge that all necessary ditches, dams and other diversion and distributing works have been constructed, and water used as stated therein; that we have carefully read such proof of appropriation, and that each and every statement contained therein is true to the best of our knowledge and belief.

Hana West
Clay Templin

Subscribed and sworn to me before this 11 day of Sept., 1995

[Notary Seal]

Sandra M. Phillips
Notary Public

My Commission Expires 07-12-96

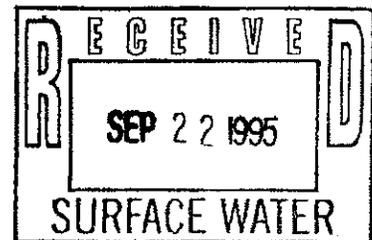
Completing the Proof of Appropriation of Water Form

932

This is the final report required of a holder of a permit allowing appropriation of public waters. Upon arrival of this report and the receipt of the proper fee the Department shall be ready to issue a Certificate of Water Right.

The Proof of Appropriation of Water is a series of statements of the appropriator, under oath, which are corroborated by the affidavits of two witnesses. This form should be filled in carefully, in a manner that will describe completely the project as actually constructed, giving the number of stock being watered and the quantity of water used under stockwatering permits; giving, in case of irrigation, the number of acres of land actually irrigated and the quantity of water used; and giving the full extent of use under appropriations for whatever other purposes. The practice of merely copying this information from the permit is not proper and should not be followed.

The accompanying affidavits of appropriator and witness must be made before a Notary Public or other officer qualified to administer oaths.



B:WRAVWEST.WB2

SITE : ARAVAIPA CREEK - WEST END
 INSTREAM FLOW (CFS): RANDOM

MONTH	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
YEAR												
1980-81			28.0			32.9	23.2		10.3	34.3		17.4
1981-82	13.7	16.4		24.5		23.8	23.8			8.0	17.9	16.1
1982-83	15.5	15.7				38.4	44.2	27.4	16.5	26.2	23.0	28.6
1983-84								37.1	31.7	41.5	43.4	34.3
1984-85	31.0	31.4	40.4	39.2	65.7	58.2	42.0	37.6	30.8		27.8	35.9
1985-86	35.2	29.8	43.5	26.9	34.3	41.1	29.4	27.2	22.9	21.3	23.8	24.8
1986-87	25.7	26.6	38.6	25.8	27.0	40.8	26.5	23.2	21.1	19.0	22.1	20.8
1987-88	21.7	26.6	34.0	25.5	28.6	22.3	21.0	18.6	16.3	43.9	20.8	16.9
1988-89	14.4	17.3	17.7	21.8	17.6	18.8	10.0		12.9	12.3	18.2	29.7
1989-90	12.4	15.4	14.1	15.5	22.1	17.4	14.8	10.4	9.4	27.6	31.4	17.7
1990-91	14.0	13.2	15.5	25.9	57.1	32.3	31.8	25.7	22.8	25.2	28.3	24.0
1991-92	22.2	29.6	27.7					39.4				
1992-93			15.5			62.2			45.1	42.7	41.4	45.8
1993-94	40.8	44.1	39.0	37.9	47.6	38.5	33.5	27.4	21.4	20.5	18.8	24.3
1994-95	34.2	32.5	40.4	44.0	43.9	43.5	35.3					
MEDIAN	22.0	26.6	31.0	25.9	34.3	38.4	27.9	27.3	21.2	25.7	23.4	24.3
MEAN	23.4	24.9	29.5	28.7	38.2	36.2	28.0	27.4	21.8	26.9	26.4	25.9
MAX	40.8	44.1	43.5	44.0	65.7	62.2	44.2	39.4	45.1	43.9	43.4	45.8
MIN	12.4	13.2	14.1	15.5	17.6	17.4	10.0	10.4	9.4	8.0	17.9	16.1
N	12	12	12	10	9	13	12	10	12	12	12	13

SITE: ARAVAIPA CREEK - WEST END
STREAM FLOW
DISCHARGE : (CFS) WATER
WATER YEAR: OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4									10.3			
5												
6												
7												
8												
9												17.4
10												
11			28.0									
12						32.9						
13												
14												
15												
16							23.2					
17										34.3		
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MEDIAN	0.0	0.0	28.0	0.0	0.0	32.9	23.2	0.0	10.3	34.3	0.0	17.4
MEAN	ERR	ERR	28.0	ERR	ERR	32.9	23.2	ERR	10.3	34.3	ERR	17.4
MAX	ERR	ERR	28.0	ERR	ERR	32.9	23.2	ERR	10.3	34.3	ERR	17.4
MIN	ERR	ERR	28.0	ERR	ERR	32.9	23.2	ERR	10.3	34.3	ERR	17.4
N	0	0	1	0	0	1	1	0	1	1	0	1

B:\ARAVWEST.WB2

::

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5						23.8						
6												
7												
8												
9							23.8			8.0		
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23		16.4										
24												
25												
26												
27				24.5								
28	13.7											
29												16.1
30												
31										17.9		
MEDIAN	13.7	16.4	0.0	24.5	0.0	23.8	23.8	0.0	0.0	8.0	17.9	16.1
MEAN	13.7	16.4	ERR	24.5	ERR	23.8	23.8	ERR	ERR	8.0	17.9	16.1
MAX	13.7	16.4	ERR	24.5	ERR	23.8	23.8	ERR	ERR	8.0	17.9	16.1
MIN	13.7	16.4	ERR	24.5	ERR	23.8	23.8	ERR	ERR	8.0	17.9	16.1
N	1	1	0	1	0	1	1	0	0	1	1	1

A:\ARAWWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								27.4				
2							44.0					
3												
4												
5												
6	14.3											
7												
8												
9												
10												
11												
12						38.4						
13		15.7								21.9		
14												
15								27.4				
16												
17							44.4					
18										20.0		
19												
20												
21												
22												
23												
24												
25												28.6
26												
27												
28											23.0	
29								22.4				
30									11.1	32.5		
31	16.7											
MEDIAN	15.5	15.7	0.0	0.0	0.0	38.4	44.2	27.4	16.5	26.2	23.0	28.6
MEAN	15.5	15.7	ERR	ERR	ERR	38.4	44.2	25.8	16.5	26.2	23.0	28.6
MAX	16.7	15.7	ERR	ERR	ERR	38.4	44.4	27.4	21.9	32.5	23.0	28.6
MIN	14.3	15.7	ERR	ERR	ERR	38.4	44.0	22.4	11.1	20.0	23.0	28.6
N	2	1	0	0	0	1	2	3	2	2	1	1

A:\ARAVWEST.WB2

FM00091

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2								37.1				
3												
4												
5												
6												
7												
8												
9												
10											43.4	
11												
12												
13												
14												
15									31.7	41.5		
16												
17												
18												
19												34.3
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MEDIAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.1	31.7	41.5	43.4	34.3
MEAN	ERR	37.1	31.7	41.5	43.4	34.3						
MAX	ERR	37.1	31.7	41.5	43.4	34.3						
MIN	ERR	37.1	31.7	41.5	43.4	34.3						
N	0	0	0	0	0	0	0	1	1	1	1	1

A:ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						71.1						
2												
3												
4		31.4										
5			34.4									
6	31.2			39.2								
7												
8												
9									33.1			
10												
11												
12								37.6				
13												
14					65.7		44.4					28.2
15												
16						58.2						
17												
18												
19			46.3									
20												
21	30.7											
22												
23									28.6			
24												
25											27.8	
26												
27												
28												
29												43.5
30								39.6				
31					45.3							
MEDIAN	31.0	31.4	40.4	39.2	65.7	58.2	42.0	37.6	30.8	0.0	27.8	35.9
MEAN	31.0	31.4	40.4	39.2	65.7	58.2	42.0	37.6	30.8	ERR	27.8	35.9
MAX	31.2	31.4	46.3	39.2	65.7	71.1	44.4	37.6	33.1	ERR	27.8	43.5
MIN	30.7	31.4	34.4	39.2	65.7	45.3	39.6	37.6	28.6	ERR	27.8	28.2
N	2	1	2	1	1	3	2	1	2	0	1	2

A:\ARAVWEST.WB2

FM00093

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1985 TO SEPTEMBER 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			55.5						23.1			
2		29.6										
3											23.8	
4								27.2				
5												
6							30.6					
7												25.6
8												
9						27.0						
10												
11												
12				27.4								
13	35.2											
14												
15									22.0			
16												
17		30.1										
18												
19												
20							28.2			21.3		
21			31.5		34.3							24.0
22												
23						55.3					23.9	
24												
25				26.4								
26												
27												
28												
29									22.9			
30												
31												
MEDIAN	35.2	29.8	43.5	26.9	34.3	41.1	29.4	27.2	22.9	21.3	23.8	24.8
MEAN	35.2	29.8	43.5	26.9	34.3	41.1	29.4	27.2	22.7	21.3	23.8	24.8
MAX	35.2	30.1	55.5	27.4	34.3	55.3	30.6	27.2	23.1	21.3	23.9	25.6
MIN	35.2	29.6	31.5	26.4	34.3	27.0	28.2	27.2	22.0	21.3	23.8	24.0
N	1	2	2	2	1	2	2	2	1	3	1	2

A:\ARAVWEST.WB2

FM00094

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1986 TO SEPTEMBER 1987

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						94.8						
2												
3								24.7				
4				25.1								
5	24.6											
6												
7												22.0
8												
9		27.6									22.3	
10												
11			38.6				26.5					
12										19.1		
13					27.0							
14						40.8			21.5			
15												
16												
17								23.2				
18												
19				25.8								
20												19.6
21												
22												
23		25.7									21.9	
24												
25	26.8											
26										18.9		
27												
28									20.7			
29						28.7		21.1				
30												
31				45.6								
MEDIAN	25.7	26.6	38.6	25.8	27.0	40.8	26.5	23.2	21.1	19.0	22.1	20.8
MEAN	25.7	26.6	38.6	32.2	27.0	54.8	26.5	23.0	21.1	19.0	22.1	20.8
MAX	26.8	27.6	38.6	45.6	27.0	94.8	26.5	24.7	21.5	19.1	22.3	22.0
MIN	24.6	25.7	38.6	25.1	27.0	28.7	26.5	21.1	20.7	18.9	21.9	19.6
N	2	2	1	3	1	3	1	3	2	2	2	2

A:VARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1987 TO SEPTEMBER 1988

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2		26.6										
3							20.0					
4	20.1											
5												
6			23.7									
7					34.3							
8												
9												
10				23.1								17.2
11												
12									15.6			
13						22.2						
14											15.9	
15								20.0				
16										15.7		
17							21.0					
18	23.4											
19												
20			44.3			22.3						
21												
22												
23				27.9								
24												
25												16.6
26												
27									16.9			
28					23.0						25.7	
29							23.3					
30								17.3				
31										72.1		
MEDIAN	21.7	26.6	34.0	25.5	28.6	22.3	21.0	18.6	16.3	43.9	20.8	16.9
MEAN	21.7	26.6	34.0	25.5	28.6	22.3	21.4	18.6	10.8	43.9	20.8	16.9
MAX	23.4	26.6	44.3	27.9	34.3	22.3	23.3	20.0	16.9	72.1	25.7	17.2
MIN	20.1	26.6	23.7	23.1	23.0	22.2	20.0	17.3	0.0	15.7	15.9	16.6
N	2	1	2	2	2	2	3	2	3	2	2	2

A:ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1988 TO SEPTEMBER 1989

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							11.4					
2										11.0		
3												
4			18.3		12.7							47.6
5		17.9				19.9						
6												
7												
8	8.3			24.3								
9												
10												
11												
12												
13											16.4	
14												
15							9.7					
16										12.3		
17			17.2									11.8
18									12.9			
19					22.5	17.7					19.9	
20		16.6										
21												
22				19.3								
23	20.4											
24												
25												
26												
27												
28										19.8		
29												
30												
31							10.0					
MEDIAN	14.4	17.3	17.7	21.8	17.6	18.8	10.0	0.0	12.9	12.3	18.2	29.7
MEAN	14.4	17.3	17.7	21.8	17.6	18.8	10.4	ERR	12.9	14.4	18.2	29.7
MAX	20.4	17.9	18.3	24.3	22.5	19.9	11.4	ERR	12.9	19.8	19.9	47.6
MIN	8.3	16.6	17.2	19.3	12.7	17.7	9.7	ERR	12.9	11.0	16.4	11.8
N	2	2	2	2	2	2	3	0	1	3	2	2

A:\ARAVWEST.WB2

FM00097

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1989 TO SEPTEMBER 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.1						21.5					
2												
3												
4					21.4							
5						15.4					47.6	
6												
7				15.5								
8										29.9		
9												
10			14.1									
11									12.2			
12		15.1						9.8				
13												
14												
15	12.4						14.8					
16												
17												
18					22.8	19.4						
19												
20												
21				15.5								
22										25.3		
23												17.7
24									6.6			
25												
26		15.7										15.1
27												
28	8.6							10.9				
29												
30							9.5					
31												
MEDIAN	12.4	15.4	14.1	15.5	22.1	17.4	14.8	10.4	9.4	27.6	31.4	17.7
MEAN	11.4	15.4	14.1	15.5	22.1	17.4	15.2	10.4	9.4	27.6	31.4	17.7
MAX	13.1	15.7	14.1	15.5	22.8	19.4	21.5	10.9	12.2	29.9	47.6	17.7
MIN	8.6	15.1	14.1	15.5	21.4	15.4	9.5	9.8	6.6	25.3	15.1	17.7
N	3	2	1	2	2	2	3	2	2	2	2	1

A:\ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1990 TO SEPTEMBER 1991

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			15.2		20.5							26.8
2									23.4			
3												
4		15.2		32.8							28.8	
5				25.9				28.0				
6												
7	14.3					37.5	38.7					
8												24.0
9												
10												
11												
12												
13												
14												
15			15.8									
16						27.0			22.8			
17		11.2									27.9	
18					93.7							
19								23.3				
20	13.7											
21				20.4			24.8			25.2		23.7
22												
23												
24												
25												
26												
27												
28												
29												
30									14.9			
31												
MEDIAN	14.0	13.2	15.5	25.9	57.1	32.3	31.8	25.7	22.8	25.2	28.3	24.0
MEAN	14.0	13.2	15.5	26.4	57.1	32.3	31.8	25.7	20.3	25.2	28.3	24.8
MAX	14.3	15.2	15.8	32.8	93.7	37.5	38.7	28.0	23.4	25.2	28.8	26.8
MIN	13.7	11.2	15.2	20.4	20.5	27.0	24.8	23.3	14.9	25.2	27.9	23.7
N	2	2	2	3	2	2	2	2	3	1	2	3

A:\ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			30.4									
2												
3		24.2										
4												
5												
6	22.0											
7												
8												
9												
10												
11												
12												
13												
14												
15			25.1									
16		35.0										
17												
18												
19												
20	22.4							39.4				
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MEDIAN	22.2	29.6	27.7	0.0	0.0	0.0	0.0	39.4	0.0	0.0	0.0	0.0
MEAN	22.2	29.6	27.7	ERR	ERR	ERR	ERR	39.4	ERR	ERR	ERR	ERR
MAX	22.4	35.0	30.4	ERR	ERR	ERR	ERR	39.4	ERR	ERR	ERR	ERR
MIN	22.0	24.2	25.1	ERR	ERR	ERR	ERR	39.4	ERR	ERR	ERR	ERR
N	2	2	2	0	0	0	0	1	0	0	0	0

A:\ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1992 TO SEPTEMBER 1993

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6										42.2		46.8
7												
8											36.5	
9												
10												
11												
12												
13												
14												
15												
16												
17									49.0			
18												44.8
19						62.2						
20			15.5									
21												
22											46.2	
23										43.3		
24												
25												
26												
27									41.1			
28												
29												
30												
31												
MEDIAN	0.0	0.0	15.5	0.0	0.0	62.2	0.0	0.0	45.1	42.7	41.4	45.8
MEAN	ERR	ERR	15.5	ERR	ERR	62.2	ERR	ERR	45.1	42.7	41.4	45.8
MAX	ERR	ERR	15.5	ERR	ERR	62.2	ERR	ERR	49.0	43.3	46.2	46.8
MIN	ERR	ERR	15.5	ERR	ERR	62.2	ERR	ERR	41.1	42.2	36.5	44.8
N	0	0	1	0	0	1	0	0	2	2	2	2

A:\ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1993 TO SEPTEMBER 1994

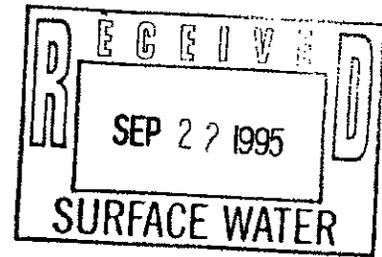
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	42.2			39.8				30.0				
3												
4												
5											18.8	
6												
7												
8										20.0		
9								33.5				
10												
11										22.2		
12					56.5	35.3						
13												
14												
15								26.3				
16	40.8											
17												
18												24.7
19			39.0									
20												
21												
22												
23												
24												
25						41.8			20.6			
26												
27					38.8			27.4		21.0		
28		44.1										
29				36.0								
30	38.9											24.0
31												
MEDIAN	40.8	44.1	39.0	37.9	47.6	38.5	33.5	27.4	21.4	20.5	18.8	24.3
MEAN	40.6	44.1	39.0	37.9	47.6	38.5	33.5	27.9	21.4	20.5	18.8	24.3
MAX	42.2	44.1	39.0	39.8	56.5	41.8	33.5	30.0	22.2	21.0	18.8	24.7
MIN	38.9	44.1	39.0	36.0	38.8	35.3	33.5	26.3	20.6	20.0	18.8	24.0
N	3	1	1	2	2	2	1	3	2	2	1	2

A:ARAVWEST.WB2

SITE: ARAVAIPA CREEK - WEST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4					26.9							
5												
6												
7							35.3					
8												
9												
10			40.4			44.5						
11												
12												
13												
14												
15												
16												
17	44.3											
18		32.5										
19												
20												
21				44.0								
22												
23												
24												
25					61.0	42.4						
26												
27												
28												
29	24.1											
30												
31												
MEDIAN	34.2	32.5	40.4	44.0	43.9	43.5	35.3	0.0	0.0	0.0	0.0	0.0
MEAN	34.2	32.5	40.4	44.0	43.9	43.5	35.3	ERR	ERR	ERR	ERR	ERR
MAX	44.3	32.5	40.4	44.0	61.0	44.5	35.3	ERR	ERR	ERR	ERR	ERR
MIN	24.1	32.5	40.4	44.0	26.9	42.4	35.3	ERR	ERR	ERR	ERR	ERR
N	2	1	1	1	2	2	1	0	0	0	0	0

A:\ARAWWEST.WB2



A:\ARAVEAST.WB2

SITE : ARAVAIPA CREEK - EAST END
 INSTREAM FLOW (CFS): RANDOM

MONTH	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
YEAR												
1978-79						32.0	35.5	28.5	31.5	22.0	30.0	
1979-80											26.0	
1980-81	15.0		21.0			23.0			17.0	14.0		
1981-82	15.0		16.0	19.0	19.0	17.5	12.0	13.5	10.6	8.9	17.0	7.8
1982-83	11.5	9.2	12.5	13.5	21.0		22.0	17.0	18.0	24.5	23.5	21.0
1983-84	40.0	31.0	39.5	32.0	38.0		31.0	33.0	27.5	27.0	50.5	37.0
1984-85	30.0	30.0	38.0		57.5	42.0	39.0	37.0	31.0	30.0	34.0	28.5
1985-86	28.5	29.5	29.0	27.5	28.5	24.0	29.0	26.0	25.0	27.0	26.5	24.0
1986-87	30.5	27.0	27.0	26.5	26.0	31.0	25.0	23.0	22.0	21.0	23.0	22.0
1987-88	22.5	21.5	23.0	24.0	21.0		20.0	16.0	16.5	15.0		18.0
1988-89					9.4		19.0	12.2	10.9	12.5	18.5	13.0
1989-90		16.5	16.0	16.0	16.0	14.5	14.5	10.0	7.1	35.0		15.5
1990-91	14.0	15.0	11.0	17.0	20.0	21.0	27.5	21.0	17.0	17.3	21.9	19.4
1991-92	20.0	22.8	24.9	25.9	26.9	24.9	19.7	27.4	22.0	20.8	24.0	22.6
1992-93	21.6	23.1	23.9	93.2	100.4	42.3	24.8	20.1	27.9	26.7	28.3	32.6
1993-94	27.4	28.5	29.1	27.3	29.7	27.4	24.8	22.9	17.4	16.3	21.0	18.8
1994-95	18.0	19.8	24.3	31.2	30.0	28.5	27.4	24.4				
MEDIAN	21.6	22.9	24.1	26.2	26.4	26.1	24.8	22.9	18.0	21.0	24.0	21.0
MEAN	22.6	22.8	23.9	29.4	31.7	27.3	24.7	22.1	20.1	21.2	26.5	21.6
MAX	40.0	31.0	39.5	93.2	100.4	42.3	39.0	37.0	31.5	35.0	50.5	37.0
MIN	11.5	9.2	11.0	13.5	9.4	14.5	12.0	10.0	7.1	8.9	17.0	7.8
N	13	12	14	12	14	12	15	15	15	15	13	13

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2							37.0					
3												
4												
5												
6												
7												
8												
9												
10								28.0				
11										23.0		
12												
13									30.0			
14						33.0						
15												
16											30.0	
17												
18										21.0		
19												
20						31.0						
21												
22												
23							34.0					
24												
25												
26												
27									33.0			
28												
29												
30								29.0				
31												
MEDIAN	0.0	0.0	0.0	0.0	0.0	32.0	35.5	28.5	31.5	22.0	30.0	0.0
MEAN	ERR	ERR	ERR	ERR	ERR	32.0	35.5	28.5	31.5	22.0	30.0	ERR
MAX	ERR	ERR	ERR	ERR	ERR	33.0	37.0	29.0	33.0	23.0	30.0	ERR
MIN	ERR	ERR	ERR	ERR	ERR	31.0	34.0	28.0	30.0	21.0	30.0	ERR
N	0	0	0	0	0	2	2	2	2	2	1	0

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6											26.0	
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MEDIAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	0.0
MEAN	ERR	26.0	ERR									
MAX	ERR	26.0	ERR									
MIN	ERR	26.0	ERR									
N	0	0	0	0	0	0	0	0	0	0	1	0

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									17.0			
2												
3												
4												
5												
6												
7												
8										14.0		
9												
10						23.0						
11												
12												
13												
14												
15												
16												
17												
18												
19			21.0									
20												
21												
22												
23												
24	15.0											
25												
26												
27												
28												
29												
30												
31												
MEDIAN	15.0	0.0	21.0	0.0	0.0	23.0	0.0	0.0	17.0	14.0	0.0	0.0
MEAN	7.5	ERR	21.0	ERR	ERR	23.0	ERR	ERR	17.0	14.0	ERR	ERR
MAX	15.0	ERR	21.0	ERR	ERR	23.0	ERR	ERR	17.0	14.0	ERR	ERR
MIN	0.0	ERR	21.0	ERR	ERR	23.0	ERR	ERR	17.0	14.0	ERR	ERR
N	2	0	1	0	0	1	0	0	1	1	0	0

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2						18.0						
3											17.0	
4									12.0			
5												
6										6.8		
7												
8												
9									9.2			
10												
11												
12						17.0						
13								16.0				
14												
15				21.0								
16												
17												
18												
19												
20										11.0		
21												
22												7.8
23	15.0											
24			16.0		19.0			11.0				
25												
26												
27							12.0					
28												
29				17.0								
30												
31												
MEDIAN	15.0	0.0	16.0	19.0	19.0	17.5	12.0	13.5	10.8	8.9	17.0	7.8
MEAN	15.0	ERR	16.0	19.0	19.0	17.5	12.0	13.5	10.6	8.9	17.0	7.8
MAX	15.0	ERR	16.0	21.0	19.0	18.0	12.0	16.0	12.0	11.0	17.0	7.8
MIN	15.0	ERR	16.0	17.0	19.0	17.0	12.0	11.0	9.2	6.8	17.0	7.8
N	1	0	1	2	1	2	1	2	2	2	1	1

A:VARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			15.0									
2												
3												
4				17.0					19.0			
5		9.2										
6												
7												
8							27.0					
9	13.0										22.0	
10												
11					21.0							
12										21.0		
13												
14												21.0
15					26.0							
16								17.0				
17									18.0			
18			9.9									
19	10.0											
20												
21												
22				10.0						28.0		
23												
24												
25												
26												
27												
28					17.0							
29							17.0		10.0		25.0	
30												
31												
MEDIAN	11.5	9.2	12.5	13.5	21.0	0.0	22.0	17.0	18.0	24.5	23.5	21.0
MEAN	11.5	9.2	12.5	13.5	21.3	ERR	22.0	17.0	15.7	24.5	23.5	21.0
MAX	13.0	9.2	15.0	17.0	26.0	ERR	27.0	17.0	19.0	28.0	25.0	21.0
MIN	10.0	9.2	9.9	10.0	17.0	ERR	17.0	17.0	10.0	21.0	22.0	21.0
N	2	1	2	2	3	0	2	1	3	2	2	1

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3							28.0					
4										27.0	34.0	
5												
6												
7			44.0									
8												
9												
10				31.0								
11									30.0			
12			35.0									
13												37.0
14								33.0				
15												
16										27.0		
17		33.0						36.0				
18	40.0											
19												
20												
21												
22		29.0		33.0					25.0			
23												
24											67.0	
25		31.0										
26												
27					38.0							
28												
29												
30							31.0					
31												
MEDIAN	40.0	31.0	39.5	32.0	38.0	0.0	31.0	33.0	27.5	27.0	50.5	37.0
MEAN	40.0	31.0	39.5	32.0	38.0	ERR	31.7	33.0	27.5	27.0	50.5	37.0
MAX	40.0	33.0	44.0	33.0	38.0	ERR	38.0	33.0	30.0	27.0	67.0	37.0
MIN	40.0	29.0	35.0	31.0	38.0	ERR	28.0	33.0	25.0	27.0	34.0	37.0
N	1	3	2	2	1	0	3	1	2	2	2	1

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.0											
2		30.0										
3									35.0			
4												
5												
6								38.0				
7												
8							38.0					
9												28.0
10			29.0									
11						42.0						
12					62.0						36.0	
13												
14												
15										30.0		
16	29.0	28.0										
17									31.0			
18												
19												
20		30.0							36.0			
21												
22			47.0			42.0	40.0					
23												29.0
24												
25												
26					53.0						32.0	
27												
28												
29												
30									29.0			
31												
MEDIAN	30.0	30.0	38.0	0.0	57.5	42.0	39.0	37.0	31.0	30.0	34.0	28.5
MEAN	30.0	29.3	38.0	ERR	57.5	42.0	39.0	37.0	31.7	30.0	34.0	28.5
MAX	31.0	30.0	47.0	ERR	62.0	42.0	40.0	38.0	35.0	30.0	36.0	29.0
MIN	29.0	28.0	29.0	ERR	53.0	42.0	38.0	36.0	29.0	30.0	32.0	28.0
N	2	3	2	0	2	2	2	2	3	1	2	2

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1985 TO SEPTEMBER 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												31.0
2			32.0						26.0			
3												
4		30.0						26.0			24.0	
5												
6												
7	28.0											
8							30.0					
9												
10						24.0						
11					29.0							
12												
13				28.0								
14												
15												24.0
16			29.0						25.0			
17												
18		29.0									29.0	
19								26.0				
20							28.0					
21	29.0									23.0		
22												
23												
24					28.0							
25												
26												
27				27.0								
28												
29										31.0		24.0
30			26.0						23.0			
31												
MEDIAN	28.5	29.5	29.0	27.5	28.5	24.0	29.0	26.0	25.0	27.0	26.5	24.0
MEAN	28.5	29.5	29.0	27.5	28.5	24.0	29.0	26.0	24.7	27.0	26.5	26.3
MAX	29.0	30.0	32.0	28.0	29.0	24.0	30.0	26.0	26.0	31.0	29.0	31.0
MIN	28.0	29.0	26.0	27.0	28.0	24.0	28.0	26.0	23.0	23.0	24.0	24.0
N	2	2	3	2	2	1	2	2	3	2	2	3

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1986 TO SEPTEMBER 1987

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			24.0		26.0							
2						31.0						
3											25.0	
4												
5				26.0								
6										20.0		
7												
8			48.0						23.0			
9												
10		26.0										
11				27.0				22.0				
12												
13	36.0						26.0					
14												22.0
15			27.0									
16						31.0						
17											23.0	
18												
19												
20					26.0					22.0		
21												
22			27.0						21.0			
23												
24		28.0										
25								24.0				
26												
27	25.0						24.0					
28												22.0
29			26.0									
30						24.0						
31											22.0	
MEDIAN	30.5	27.0	27.0	26.5	26.0	31.0	25.0	23.0	22.0	21.0	23.0	22.0
MEAN	30.5	27.0	30.4	26.5	26.0	28.7	25.0	23.0	22.0	21.0	23.3	22.0
MAX	36.0	28.0	48.0	27.0	26.0	31.0	26.0	24.0	23.0	22.0	25.0	22.0
MIN	25.0	26.0	24.0	26.0	26.0	24.0	24.0	22.0	21.0	20.0	22.0	22.0
N	2	2	5	2	2	3	2	2	2	2	3	2

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1987 TO SEPTEMBER 1988

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					21.0							
2												
3												
4				23.0			20.0	18.0				
5												
6												
7			22.0									
8												
9												
10		22.0										
11												
12	22.0											
13										15.0		
14									16.0			
15					21.0							
16												
17												18.0
18								16.0				
19				25.0			20.0					
20												
21			24.0									
22												
23		21.0										
24												
25												
26												
27												
28	23.0				22.0							
29									17.0			
30												
31								15.0				
MEDIAN	22.5	21.5	23.0	24.0	21.0	0.0	20.0	16.0	16.5	15.0	0.0	18.0
MEAN	22.5	21.5	23.0	24.0	21.3	ERR	20.0	16.3	16.5	15.0	ERR	18.0
MAX	23.0	22.0	24.0	25.0	22.0	ERR	20.0	18.0	17.0	15.0	ERR	18.0
MIN	22.0	21.0	22.0	23.0	21.0	ERR	20.0	15.0	16.0	15.0	ERR	18.0
N	2	2	2	2	3	0	2	3	2	1	0	1

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1988 TO SEPTEMBER 1989

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2					9.4			9.4				
3												
4												
5												
6							19.0				23.0	
7												
8												
9										12.0		
10												
11									8.8			
12												
13												
14												
15												
16												
17												
18												
19								15.0				
20												
21												
22												
23												
24										13.0		
25									13.0			
26												13.0
27											14.0	
28												
29												
30												
31												
MEDIAN	0.0	0.0	0.0	0.0	9.4	0.0	19.0	12.2	10.9	12.5	18.5	13.0
MEAN	ERR	ERR	ERR	ERR	9.4	ERR	19.0	12.2	10.9	12.5	18.5	13.0
MAX	ERR	ERR	ERR	ERR	9.4	ERR	19.0	15.0	13.0	13.0	23.0	13.0
MIN	ERR	ERR	ERR	ERR	9.4	ERR	19.0	9.4	8.8	12.0	14.0	13.0
N	0	0	0	0	1	0	1	2	2	2	2	1

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1989 TO SEPTEMBER 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							16.0	10.0				
2												
3												
4												
5						14.0						
6		17.0							6.2			17.0
7												
8												
9												
10												
11			16.0									
12												
13												
14												
15						15.0			52.0			
16					16.0							
17												
18												
19												
20												
21												
22			16.0									
23							13.0					
24												
25												
26									8.0			
27		16.0										14.0
28										18.0		
29				16.0								
30												
31												
MEDIAN	0.0	16.5	16.0	16.0	16.0	14.5	14.5	10.0	7.1	35.0	0.0	15.5
MEAN	ERR	16.5	16.0	16.0	16.0	14.5	14.5	10.0	7.1	35.0	ERR	15.5
MAX	ERR	17.0	16.0	16.0	16.0	15.0	16.0	10.0	8.0	52.0	ERR	17.0
MIN	ERR	16.0	16.0	16.0	16.0	14.0	13.0	10.0	6.2	18.0	ERR	14.0
N	0	2	1	2	1	2	2	1	2	2	0	2

A:VARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1990 TO SEPTEMBER 1991

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3		15.0	11.0					32.0				
4												
5												
6												
7								21.0				
8												
9									15.0			
10												
11											21.9	
12	14.0											
13												
14										18.0		
15								22.0				17.0
16												
17												
18		15.0										
19												
20					20.0	21.0						
21		14.0										
22												
23									19.0			
24				17.0								
25												
26												
27												
28							23.0	19.0				
29										16.7		21.8
30												
31												
MEDIAN	14.0	15.0	11.0	17.0	20.0	21.0	27.5	21.0	17.0	17.3	21.9	19.4
MEAN	14.0	14.7	11.0	17.0	20.0	21.0	27.5	20.7	17.0	11.6	21.9	12.9
MAX	14.0	15.0	11.0	17.0	20.0	21.0	32.0	22.0	19.0	18.0	21.9	21.8
MIN	14.0	14.0	11.0	17.0	20.0	21.0	23.0	19.0	15.0	0.0	21.9	0.0
N	1	3	1	1	1	1	2	3	2	3	1	3

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE :-(CFS) WATER
 WATER YEAR: OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					21.8				22.0			
2												
3												
4												
5												
6												22.8
7		23.0										
8												
9			21.2									
10		22.5						27.4			24.4	
11												
12												
13						23.0				18.8		
14												
15					62.3		20.0		20.9			
16												
17												
18				25.9								
19	18.2											
20			28.7									
21												
22												22.5
23											23.6	
24												
25												
26								19.4				
27	21.8											
28										22.9		
29					26.9	26.7						
30									22.9			
31												
MEDIAN	20.0	22.8	24.9	25.9	26.9	24.9	19.7	27.4	22.0	20.8	24.0	22.6
MEAN	20.0	22.8	24.9	25.9	37.0	24.9	19.7	27.4	21.9	20.8	24.0	22.6
MAX	21.8	23.0	28.7	25.9	62.3	26.7	20.0	27.4	22.9	22.9	24.4	22.8
MIN	18.2	22.5	21.2	25.9	21.8	23.0	19.4	27.4	20.9	18.8	23.6	22.5
N	2	2	2	1	3	2	2	1	3	2	2	2

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1992 TO SEPTEMBER 1993

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						48.8	27.6					
2												
3												
4												
5	20.9											
6		23.3	24.8					20.1	26.5	24.6		
7												
8												
9												
10												
11												36.6
12												
13												
14												
15						35.9						
16												
17											26.7	
18												
19												
20												
21			23.0									
22		22.8			100.4		22.0		29.3			
23				135.0								
24	22.4											
25										28.9		
26												
27												
28												28.6
29												
30				51.3							29.8	
31												
MEDIAN	21.6	23.1	23.9	93.2	100.4	42.3	24.8	20.1	27.9	26.7	28.3	32.6
MEAN	21.6	23.1	23.9	93.2	100.4	42.3	24.8	20.1	27.9	26.7	28.3	32.6
MAX	22.4	23.3	24.8	135.0	100.4	48.8	27.6	20.1	29.3	28.9	29.8	36.6
MIN	20.9	22.8	23.0	51.3	100.4	35.9	22.0	20.1	26.5	24.6	26.7	28.6
N	2	2	2	2	1	2	2	1	2	2	2	2

A:\ARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1993 TO SEPTEMBER 1994

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		30.8										
2												
3												
4												
5												
6												
7												
8												
9								20.9			22.0	
10		26.2	29.2		34.0		25.1		17.7	15.7		18.0
11				27.0		26.1						
12												
13	27.4											
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24			29.1	27.7								
25		28.5			25.3	28.7		25.0	17.0	16.9		19.6
26											20.0	
27							24.6					
28												
29												
30												
31												
MEDIAN	27.4	28.5	29.1	27.3	29.7	27.4	24.8	22.9	17.4	16.3	21.0	18.8
MEAN	27.4	28.5	29.1	27.3	29.7	27.4	24.8	22.9	17.4	16.3	21.0	18.8
MAX	27.4	30.8	29.2	27.7	34.0	28.7	25.1	25.0	17.7	16.9	22.0	19.6
MIN	27.4	26.2	29.1	27.0	25.3	26.1	24.6	20.9	17.0	15.7	20.0	18.0
N	1	3	2	2	2	2	2	2	2	2	2	2

A:VARAVEAST.WB2

SITE: ARAVAIPA CREEK - EAST END
 STREAM FLOW
 DISCHARGE : (CFS) WATER
 WATER YEAR: OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	17.7	18.9	24.3	34.9	25.1	29.5	28.2					
11								24.4				
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25	18.4	20.8			35.0							
26			24.3	27.6		27.5	26.6					
27												
28												
29												
30												
31												
MEDIAN	18.0	19.8	24.3	31.2	30.0	28.5	27.4	24.4	0.0	0.0	0.0	0.0
MEAN	18.0	19.8	24.3	31.2	30.0	28.5	27.4	24.4	ERR	ERR	ERR	ERR
MAX	18.4	20.8	24.3	34.9	35.0	29.5	28.2	24.4	ERR	ERR	ERR	ERR
MIN	17.7	18.9	24.3	27.6	25.1	27.5	26.6	24.4	ERR	ERR	ERR	ERR
N	2	2	2	2	2	2	2	1	0	0	0	0

A:VARAVEAST.WB2

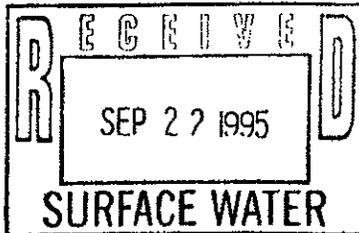


United States Department of the Interior
BUREAU OF LAND MANAGEMENT



Safford District Office
711 14th Avenue
Safford, AZ 85546
(520) 428-4040

In reply refer to:
7250 (045)



September 21, 1995

Mr. Joe B. Stuart
Manager, Surface Water Rights Unit
Operations Division
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004

Dear Mr. Stuart:

Enclosed is a completed Proof of Appropriation of Water with additional legal description, Affidavits of Appropriator and Witness, compilation of Instantaneous streamflow measurements by month and year, and the summary of the flows. This documentation is in compliance with the stipulations set forth in permit number 33-87114, an instream flow water right for Aravaipa Creek.

Please charge the fee required for issuance of the Certificate of Water Right (a sum of \$50.00) to the Safford District's fee credit account, FCA-3.

If there are any questions about the information submitted, please contact Delbert Molitor at the number above.

Sincerely,

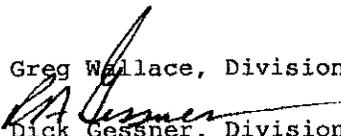
Margaret Jensen
Gila Area Manager

Enclosures (4)

FM00122

DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION

MEMORANDUM

TO: Greg Wallace, Division Chief, Hydrology
FROM:  Dick Gessner, Division Chief, Operations
DATE: March 27, 1989
SUBJECT: Permit to Appropriate No. 33-87114

The above referenced permit was issued to the BLM on March 17, 1989 for an in-stream flow use on Aravaipa Creek. A copy of the permit is attached. Stipulation 9 of the permit requires BLM to maintain records of flows measured at the East end of the instream flow area by using a gauge and installation approved by DWR.

By letter of March 7 and March 13 (copies attached), the BLM has presented DWR with information pertaining to their current East end gauge and requested an on-site meeting to inspect the gauge, its installation and operation. The BLM is most anxious to obtain DWR approval for their gauge and methodology to immediately begin to comply with Stipulation 9 of the permit.

It is requested that you provide a person or persons from your staff who have the necessary expertise to inspect, evaluate and make a recommendation regarding the BLM proposed gauge and its operation. It is anticipated that a meeting with BLM representatives and an on-site inspection will be necessary.

At your earliest convenience, please inform me of the member of your staff who will be the point of contact for this project.

PERMIT

Application No. 33-87114

Permit No. 33-87114

This is to certify that the Department of Water Resources has examined and approved this application and grants to the applicant, United States Department of the Interior, Bureau of Land Management, pursuant to the provisions of Arizona Revised Statutes §45-151 et. seq., a permit to appropriate surface water of Aravaipa Creek subject to the following terms:

1. Source: Public waters flowing in Aravaipa Creek, a tributary of the San Pedro River.

2. Uses and amounts: Recreation and wildlife, including fish - ten thousand eight hundred and forty acre-feet per annum expressed as monthly averages of continuous flows measured in cubic feet per second distributed for each month as follows:

Month	J	F	M	A	M	J	J	A	S	O	N	D
Average CFS												
Daily Flow	20	25	20	10	10	9	10	20	11	15	10	20

3. Points of diversion and places of use: Water will not be diverted from the natural channel. Beneficial use will occur instream along the meandering course of Aravaipa Creek. The instream use will start at a point within the Northeast quarter (NE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), Section 19, Township 6 South, Range 19 East, Graham County and continuing through the main stem of Aravaipa Creek and ending at a point within the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), Section 13, Township 6 South, Range 17 East, Gila and Salt River Base and Meridian, Pinal County, Arizona.

4. There shall be no impoundments of public waters nor interference with the natural flow of Aravaipa Creek.

5. There shall be no consumptive use of public waters other than is caused by the natural habitat (flora and fauna).

6. There shall be no degradation of water quality by reason of the Permittee's use of these public waters other than as caused by the natural habitat.

7. There shall be no interference with nor detrimental effect upon prior vested rights as a result of the permitted instream use.

8. The date of priority of this permit is June 1, 1981.

9. The Permittee shall, commencing immediately, maintain a record of the in-stream use of Aravaipa Canyon. The flow shall be measured at the East Aravaipa gauging station where Aravaipa Creek enters the Aravaipa Wilderness Area. The type of gauge and its installation shall be approved by the Department of Water Resources. A minimum of two flow measurements shall be taken each month and routine gauging station maintenance shall be performed weekly. The record of instream flows shall be submitted to the Department of Water Resources with the Proof of Appropriation which shall be filed not earlier than July 1, 1994 nor later than July 1, 1995.

Dated this 17th day of March, 1989.

Herb Dishlip

Herb Dishlip
Deputy Director
Water Management



March 17, 1989

Bureau of Land Management
Safford District Office
Attn: Frank Rowley
425 E. 4th Street
Safford, Arizona 85546

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
N. W. Plummer
Director

15 South 15th Avenue
Phoenix, Arizona 85007

Re: Permit to Appropriate Public Waters No. 33-87114

Dear Mr. Rowley:

Your application for appropriative permit has been approved. Enclosed please find the approved permit.

Enclosed are forms titled Proof of Appropriation of Water and Affidavit of Appropriator. These two forms must be completed and filed with the Department of Water Resources for each permit after the means of diversion or storage have been constructed and the appropriated water has been applied to the permitted beneficial use. The Affidavit of Appropriator must be notarized and supported by the affidavit of two witnesses.

The Proof of Appropriation of Water is an important document which should show the amount of water beneficially used. Please answer each applicable question completely, carefully and correctly after reviewing the terms of your permit, the application and any information which you have compiled regarding this water use. You may submit attachments with the Proof.

The information set forth in the Proof will be reviewed prior to the issuance of a Certificate of Water Right. This review may include a field examination of the appropriation.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:rh

Enclosures

FM00126



United States Department of the Interior

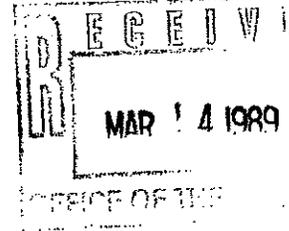
BUREAU OF LAND MANAGEMENT
SAFFORD DISTRICT OFFICE
425 E. 4TH STREET
SAFFORD, ARIZONA 85546
(602) 428-4040



IN REPLY REFER TO:

7250
(043)

March 13, 1989



Mr. N.W. Plummer
Arizona Department of Water Resources
15 S. 15th Avenue
Phoenix, Arizona 85007

Dear Mr. Plummer:

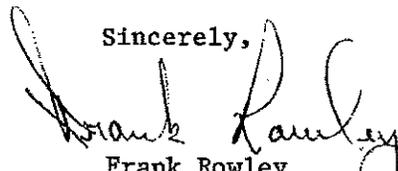
In reference to the draft permit for Aravaipa Creek, Permit No. 33-87114, concerning the issuance of a permanent permit, please charge the required fee of \$50.00 to our fee credit account, Account No. FC-3.

A description of the gaging station located on the east end of Aravaipa Wilderness Area is as follows:

A 24 inch diameter helical culvert pipe is erected vertically over the stream channel. The pipe is constructed of 12 gauge galvanized steel and is dredged two feet into the streambed. The pipe is attached and braced to the rock wall with water flowing around the well. Three doors allow access. A steel platform is attached to the upper end of the culvert, approximately 12 feet above normal flow. A steel box is fastened to the platform with hinges and hasp. The box flips back to reveal an A-71 Leopold and Stevens recorder. The flow is monitored with a ten inch float connected to a continuous chart roll of 2.4 inch movement per day. The chart is removed quarterly. The staff gage is placed inside the stilling well, because the life expectancy of any staff gage attached to the rock wall is the next big flood.

If there are any questions on the material contained in this letter, please contact Del Molitor, District Hydrologist.

Sincerely,


Frank Rowley
Acting District Manager

FM00127



United States Department of the Interior

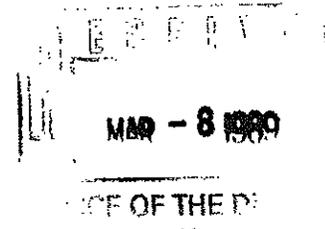
BUREAU OF LAND MANAGEMENT
SAFFORD DISTRICT OFFICE
425 E. 4TH STREET
SAFFORD, ARIZONA 85546
(602) 428-4040



IN REPLY REFER TO:
7250
(044)

March 7, 1989

Mr. C. Laurence Linser, Acting Director
Department of Water Resources
99 E. Virginia Ave.
Phoenix, Arizona 85004



Dear Mr. Linser:

We have reviewed the draft permit to appropriate surface water for instream flow for Aravaipa Creek, Permit No. 33-87114, and provide the following comments:

Stipulation 2. Change wording as follows:

"Ten thousand eight hundred and forty acre-feet per annum expressed as monthly averages of daily continuous flows, measured in cubic feet per second, which are distributed for each month as follows:...."

Stipulation 6. The wording of this should be changed to reflect the current recreational use of the canyon. The present stipulation could be interpreted to exclude recreational use of the canyon, as impacts are not "caused by the natural habitat" as stated in the current wording. An acceptable revision would be as follows:

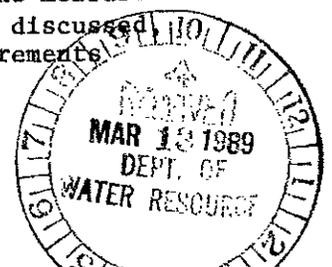
"The water quality of the creek will be maintained at its current high standard."

Aravaipa Wilderness is used for hiking on a daily basis. The creek is managed under a water quality monitoring plan, and levels of bacteria are regularly measured to ensure that adverse impacts of recreational use are minimized.

The BLM is currently studying water quality parameters in Aravaipa Creek in support of its upcoming nomination as a "Unique Water." This designation, once approved by the Arizona Department of Environmental Quality, will further serve to protect the excellent water quality in the creek.

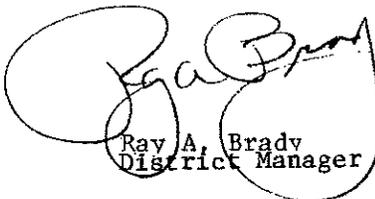
Stipulation 9. We have no problem with measuring the flow at the East End of Aravaipa Creek, however, we have serious concerns about the accuracy of that gauge. To this end, we request that an on-site coordination meeting be attended by Arizona Department of Water Resources hydrologists, The Nature Conservancy staff at Aravaipa, and BLM specialists involved with the measurements. At this meeting, the current placement of the gauge can be discussed and remedial actions needed to ensure the accuracy of future measurements.

FM00128



taken by the gauge will be suggested. BLM will continue to measure streamflow twice each month. This information and the gauge data will be collected for a 5-year period and submitted to ADWR between July 1, 1994 and July 1, 1995.

Sincerely,



Ray A. Brady
District Manager



United States Department of the Interior

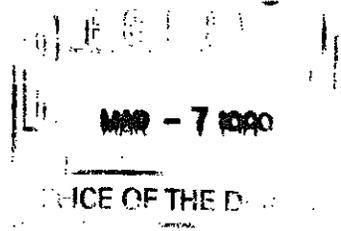
BUREAU OF LAND MANAGEMENT
SAFFORD DISTRICT OFFICE
425 E. 4TH STREET
SAFFORD, ARIZONA 85546
(602) 428-4040



IN REPLY REFER TO:
7250
(044)

March 3, 1989

Mr. C. Laurence Linser, Acting Director
Department of Water Resources
99 E. Virginia Ave.
Phoenix, Arizona 85004



Dear Mr. Linser:

We have reviewed the draft permit to appropriate surface water for instream flow for Aravaipa Creek, Permit No. 33-87114, and provide the following comments:

Stipulation 2. Change wording as follows:

"Ten thousand eight hundred and forty acre-feet per annum expressed as monthly averages of daily continuous flows, measured in cubic feet per second, which are distributed for each month as follows:...."

Stipulation 6. The wording of this should be changed to reflect the current recreational use of the canyon. The present stipulation could be interpreted to exclude recreational use of the canyon, as impacts are not "caused by the natural habitat" as stated in the current wording. An acceptable revision would be as follows:

"The water quality of the creek will be maintained at its current high standard."

Aravaipa Wilderness is used for hiking on a daily basis. The creek is managed under a water quality monitoring plan, and levels of bacteria are regularly measured to ensure that adverse impacts of recreational use are minimized.

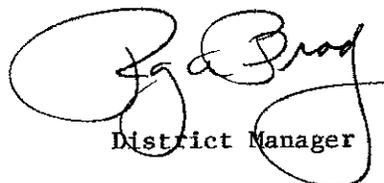
The BLM is currently studying water quality parameters in Aravaipa Creek in support of its upcoming nomination as a "Unique Water." This designation, once approved by the Arizona Department of Environmental Quality, will further serve to protect the excellent water quality in the creek.

Stipulation 9. We have no problem with measuring the flow at the East End of Aravaipa Creek, however, we have serious concerns about the accuracy of that gauge. To this end, we request that an on-site coordination meeting be attended by Arizona Department of Water Resources hydrologists, The Nature Conservancy staff at Aravaipa, and BLM specialists involved with the measurements. At this meeting, the current placement of the gauge can be discussed, and remedial actions needed to ensure the accuracy of future measurements

FM00130

taken by the gauge will be suggested. BLM will continue to measure streamflow twice each month. This information and the gauge data will be collected for a 5-year period and submitted to ADWR between July 1, 1994 and July 1, 1995.

Sincerely,



Handwritten signature of J. A. Brad, District Manager.

District Manager



ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
N. W. Plummer
Director

15 South 15th Avenue
Phoenix, Arizona 85007

February 21, 1989

Bureau of Land Management
Safford District Office
425 East 4th Street
Safford, Arizona 85546

RE: Application for Permit to Appropriate Public Water No. 33-87114

Dear Sir:

The Department of Water Resources is pleased to forward the enclosed letter from San Carlos Irrigation and Drainage District, on behalf of Riney B. Salmon, III, withdrawing their protest of the above referenced application.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:rh

Enclosure

FM00132

CHARLES L. STROUSS, JR.
WILLIAM T. BIRMINGHAM
JOHN S. HOBBS
JOHN R. CHRISTIAN
TIMOTHY W. BARTON
RINEY B. SALMON, II
GARY G. KELTNER
CHARLES E. JONES
LEE E. ESCH
RICHARD L. LASSEN
T. PATRICK FLOOD
W. MICHAEL FLOOD
I. DOUGLAS DUNIPACE
RONALD H. MOORE
GARY L. STUART
M. BYRON LEWIS
MICHAEL A. BEALE
STEPHEN A. MYERS
K. THOMAS FINKE
DAVID L. WHITE
JOHN G. SESTAK, JR.
JOHN B. WELDON, JR.
DIANE K. GEMER
JAMES R. HUNTWORK

GERRIT M. STEENBLIK
GERALD W. ALSTON
PHILIP J. MCDONNELL
RITA A. MEISER
JOHN A. MICHAELS
JEFFERSON L. LANKFORD
GEOFFREY R. HAMLIN
BARRY E. LEWIN
CAROL H. SAPAKIE
DAVID J. ESTES
ANN M. DUMENIL
JAY A. FRADKIN
DONN G. KESSLER
GLENN J. CARTER
RICHARD C. ONSAGER
H. CHRISTIAN BODE
MARK E. KAROLCZYK
STEPHEN E. CROFTON
ANNE L. KLEINDIENST
ROBERT J. BRADY
JAMES M. ACKERMAN
DONALD J. OPPENHEIM
GEORGE M. ESAHAK
ROBERT J. WERNER

JENNINGS, STROUSS & SALMON
ATTORNEYS AT LAW

TELEPHONE (602) 262-5911

TELECOPY (602) 253-3255

WRITER'S DIRECT LINE

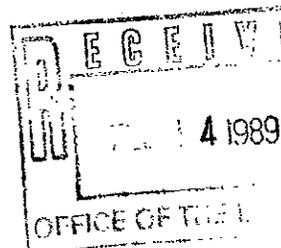
262-5811

MAURICE PORTLEY
MIKEL L. MOORE
MICHAEL R. PALUMBO
ELIZABETH ANN RIEKE
BRIAN E. DITSCH
JOHN H. ISHIKAWA
BRIAN N. SPECTOR
CAROL A. CLUFF
MARK A. MAHONEY
LEO L. MILLER
MICHAEL J. O'CONNOR
JON D. SCHNEIDER
ROBERT E. COLTIN
RUSSELL C. BROWN
FREDERICK M. CUMMINGS
WARREN C. KOTZMANN
SCOTT K. OBERG
GREGORY K. STAPLEY
KENT E. CATTANI
MIKKI SUE YITZCHAKI
SANDRA R. KANE
TRACY A. GROMER
KATHERINE M. COOPER
JOHN J. EGBERT

MATTHEW D. KLEIFELD
LISA M. MCKNIGHT
DIANE R. NEFF
PHILIP G. MITCHELL
JAMES O. EHINGER
WENDY DANIELSON WOODROW
PRESTON H. LONGINO, JR.
JOHN R. BECKER
NANCY J. TIMMERMAN
JOSEPH A. DRAZEK
STEPHEN B. WHITE
DANIEL H. BERGIN
SEAN C. CHAPMAN
CHRISTOPHER G. STUART
SARAH J. SHOWARD

OF COUNSEL
FRANK B. CAMPBELL, JR.
CLARENCE J. DUNCAN
NICHOLAS (DALL)
EARL F. GLENN, JR.
ROBERT E. HURLEY

February 6, 1989



Mr. N. W. Plummer
Director
Department of Water Resources
15 South 15th Ave.
Phoenix, Arizona 85007

RE: Protest of San Carlos Irrigation and Drainage
District to Application to Appropriate Public
Waters No. 33-87114

Dear Mr. Plummer:

The San Carlos Irrigation and Drainage District ("the District") hereby withdraws its protest to Application No. 33-87114 filed by the Bureau of Land Management ("BLM") to appropriate the waters of Aravaipa Creek for recreation and wildlife purposes.

This withdrawal is made upon the condition that any permit to appropriate or certificate of water right granted to the BLM for Aravaipa Creek will expressly and unequivocally state that no diversions, no impoundments nor any other type of interference with the natural flow of Aravaipa Creek, no consumptive use other than by the natural flora and fauna, no degradation of water quality and no interference with or adverse effect upon vested rights are authorized by the permit or certificate. The language on the draft permit forwarded to me by Richard A. Gessner by letter dated February 1, 1989, addresses these concerns in an acceptable manner.

In determining whether to withdraw its protest, the District carefully evaluated whether granting the application would conflict with its vested rights or would be against the

Mr. N. W. Plummer
February 10, 1989
Page 2

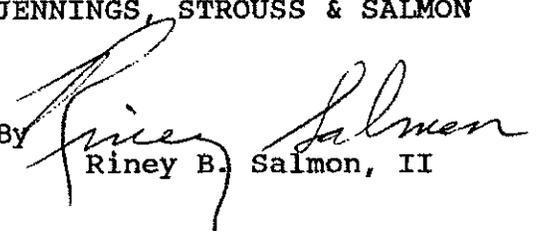
interests and welfare of the public. See A.R.S. § 45-153.A. The District believes that issuance of large numbers of instream rights has the potential to prevent or obstruct planned or future exchanges of water that would foster the full and most economical use of Arizona's water supplies, including CAP water. We believe that such a result would be contrary to this state's commitment to maximum utilization of those supplies and would jeopardize the welfare of this state and its citizens.

Although we can foresee no circumstance under which the application at issue would prevent any reasonably foreseeable exchange, we will scrutinize any future applications with this concern in mind. Furthermore, we believe the public interest criterion in A.R.S. § 45-153.A requires the Department to deny any application that would adversely impact a planned or reasonably foreseeable exchange designed to maximize the use of Arizona's water supplies.

Sincerely,

JENNINGS, STROUSS & SALMON

By


Riney B. Salmon, II

EAR/jmj

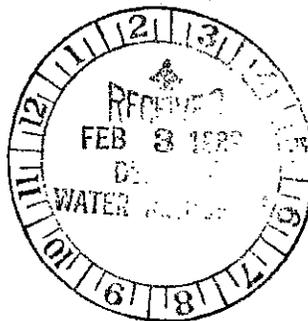
cc: Frank Rowley, Bureau of Land Management
Lawrence A. Ramsey, Arizona Department of Water Resources
William D. Swan, Office of the Field Solicitor
San Carlos Irrigation & Drainage District

DEPARTMENT OF WATER RESOURCES
HYDROLOGY DIVISION
SPECIAL STUDIES

MEMORANDUM

TO: Al Ramsey
THRU: Steven Szyproski *S.S. 2/2/89*
FROM: T. Perry *J.*
DATE: February 3, 1989
SUBJECT: Aravaipa Creek ISF Application No. 33-87114

Additional information supplied by the applicant in response to our request is sufficient to support hydrologic technical review of the application for the requested flows. If you or your staff have any further questions, please don't hesitate to call.



33-87114

INCOMING MAIL
WATER MANAGEMENT

DATE RECEIVED: 1-23-89

REQUESTED ACTION:

- Dishlip _____
- Phoenix AMA _____
- Tucson AMA _____
- Pinal AMA _____
- Prescott AMA _____
- Operations *PR* - 1-25-89 _____
- Planning _____
- Louise _____

- Circulate
- Draft Response by _____ (date)
- For Your Info.
- Review/Comments
- File _____

NOTES: *To Tom Perry*

*Tom, 1-25-89
Call me if you
have questions
about this.
A.R.*



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE
3707 N. 7TH STREET
PHOENIX, ARIZONA 85014



IN REPLY REFER TO:
7250 (932)

January 18, 1989

Mr. Herb Dishlip, Deputy Director
Water Management
Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007

Re: Application for Permit to Appropriate Public Waters No. 33-87114

Dear Mr. Dishlip:

At the Aravaipa Creek instream flow water rights meeting held on December 14, 1988, DWR outlined three requirements for the issuance of an instream flow permit to the Bureau of Land Management (BLM) for the above application. As you recall, the requirements made of BLM were (a) perform a correlation analysis of BLM data and USGS streamflow data for Aravaipa Creek, (b) submit data from the 1982 U.S. Fish and Wildlife Service instream flow hydraulic model simulation and (c) provide documentation of our effort to have the protest by San Carlos Irrigation and Drainage District withdrawn. We are transmitting the enclosed results of the two data requirements discussed at the meeting (see enclosures). The third requirement has also been completed and will be sent to you in a separate letter by our Safford District Office. Brief explanations of the data analyses are provided with each enclosure.

Please extend our thanks to Tom Perry, of your Hydrology Division, for lending his assistance to our staff on the data correlation analysis. If you have any questions regarding the enclosures, contact Dan McGlothlin of my staff at 241-5512.

Sincerely,

Phillip D. Moreland
Acting Deputy State Director
Lands and Renewable Resources

Enclosures

RECEIVED
JAN 23 1989
WATER RESOURCES

FM00137



January 26, 1989

San Carlos Irrigation and Drainage District
P.O. Box 218
Coolidge, Arizona 85228

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
N. W. Plummer
Director

RE: Application for Permit to Appropriate Public Waters No. 33-87114

15 South 15th Avenue
Phoenix, Arizona 85007

Dear Sir:

Enclosed is a copy of the response by The Bureau of Land Management to your protest of the referenced application.

Please review the response to your protest carefully and determine if BLM has provided sufficient information to assure you that your claimed water right will not be adversely impacted by the applicant's filing.

Whatever your decision, please inform the Department in writing, providing an original and one copy, with a copy of your letter to The Bureau of Land Management.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:im

Enclosure

cc: Bureau of Land Management

FM00138



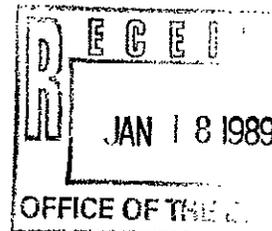
United States Department of the Interior

IN REPLY REFER TO:

7250 (932)
(040)

BUREAU OF LAND MANAGEMENT SAFFORD DISTRICT OFFICE

425 E. 4th Street
Safford, Arizona 85546
(602) 428-40404



January 13, 1989

Mr. N.W. Plummer, Director
Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007

RE: Application for Permit to Appropriate Public Waters No. 33-87114

Dear Mr. Plummer:

The Bureau of Land Management (BLM) hereby replies to the letter dated November 17, 1988, from the protestant San Carlos Irrigation and Drainage District (SCIDD) regarding the subject application. This letter is presented in conformance with the request of Mr. Lawrence A. Ramsey, of your staff, in his letter dated November 22, 1988 to BLM.

The BLM replies to the SCIDD protest as follows:

1. Conflict with vested rights. The protestant asserts that the proposed application conflicts with the vested rights of landowners within the San Carlos Irrigation and Drainage District as part of the San Carlos Federal Irrigation Project. These rights are for the irrigation of lands within the Project as adjudicated in the Gila Decree of 1935. Waters of the Gila River and its tributaries are stored, diverted and then placed to beneficial use upon lands within the Project. Aravaipa Creek is tributary to the San Pedro River which joins the Gila River at a point below San Carlos Reservoir, which is the major storage reservoir for the San Carlos Project. The place of beneficial use in the BLM application is above the Project's point of diversion at Ashurst-Hayden diversion dam.

Under the rules for appropriation of water, rights for diversions which are junior to downstream appropriators must be administered so that the junior right does not impair the senior rightholder's ability to realize the full measure of its right, to the possible exclusion of the junior rightholder's use of the stream in water-short years. Accordingly, rights for new uses that are located above prior vested rights are subject to the availability of flows in excess of downstream rights.

FM00139

With this application, however, the BLM is proposing to appropriate a portion of the normal (or base) flow of Aravaipa Creek for maintaining the existing wildlife, fishery and recreation uses of the stream within the Aravaipa Canyon Wilderness. The proposed right should not be construed to be a new use under the above rule of appropriation, nor should it be viewed as a consumptive use which does not return water to the system. Any right granted under this application would be junior to the protestant's right and would be subject to the above rule of appropriation. In addition, since the right would reflect a non-consumptive use, there will be no actual conflict with the protestant's existing uses.

In effect, a recognized right for instream flows would serve both BLM and the Project's needs by ensuring the continuance of flows through the wilderness area downstream to the protestant's point of diversion. Thus, we believe this application supports, rather than conflicts with, the vested rights of the protestant.

2. Beneficial Use. The BLM has extensively studied and documented the resource values, including fish, wildlife and recreation, that constitute the beneficial uses of stream flows stated in our application. We have provided the Department of Water Resources with substantial documentation in support of the application and we are continuously monitoring the key resource uses of Aravaipa Creek in fulfillment of our own management obligations in the wilderness area.

3. Interest and Welfare of the Public. We believe that the issuance of a right for instream flow in Aravaipa Creek advances the interest and welfare of the public. There is virtually no public disagreement, that we are aware of, with the BLM's mission to protect and preserve the unique values of Aravaipa Canyon Wilderness. Most of the values, upon which Congress based its designation of this wilderness, are entirely dependent on the existing flows in Aravaipa Creek. In order to preserve these values, thereby protecting the public's interest, instream uses must be legally protected in the wilderness. A denial of the application would constitute a rejection of the instream flow principle under Arizona law and would be contrary to the public's will for protecting this wilderness, as evidenced by the recent federal legislation.

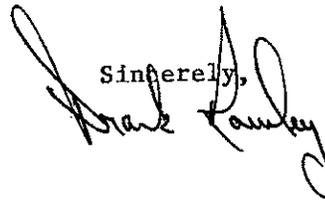
4. Negotiation of Resolution. The BLM has diligently pursued resolutions to the two protests filed against our application. Our efforts are evidenced in two ways: (1) in the recent request (see Enclosure 1) to withdraw the protest filed by the protestant San Carlos Irrigation Project dated October 13, 1988 and (2) in our letter dated November 30, 1988 (see Enclosure 2) to the San Carlos Irrigation and Drainage District which explains the purpose and intent of the application. We met with the SCIDD Board of Directors at their general board meeting on January 5, 1989 to further discuss their protest, provide information about instream flow, and ask them to withdraw their protest.

Through our contacts with SCIDD, we believe that instream flow is not the principle concern in this protest. From our communication with SCIDD's General Manager, there appears to be a basic acceptance of this application insofar that it does not represent a diversion for new uses. The main concern over our application appears to be related to a water right exchange issue which is irrelevant to this filing. Simply stated, the protestant believes

that instream flows for Aravaipa Creek are best protected by means other than by this proposed appropriation. While alternative processes may be available to the BLM for providing the necessary flows, this reasoning does not provide an acceptable base for protesting our application.

In conclusion, the BLM has effectively responded to the points of concern raised by the protestant SCIDD. Clearly, this instream flow request does not interfere with the vested rights of the Project. We believe the application meets all statutory conditions for approval as outlined in A.R.S. 45-153, criteria for approval or rejection of applications. For the reasons stated above, we respectfully request that you disregard the protest of the San Carlos Irrigation and Drainage District and grant BLM a permit to appropriate waters of Aravaipa Creek.

Sincerely,



Frank Rowley
Acting District Manager

Enclosures: 2

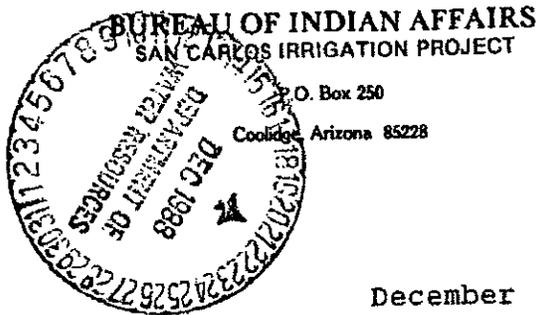
- 1 - San Carlos Irrigation Project Letter to Lawrence A. Ramsey (1 p)
- 2 - Bureau of Land Management Letter to Douglas D. Mason (2 pp)

cc: Field Solicitor's Office
Arizona State Office (932)
Douglas Mason, San Carlos Irrigation and Drainage District
Dan Campbell, The Nature Conservancy



United States Department of the Interior

RECEIVED
B.L.M. AZ STATE OFFICE



DEC 23 1988
7:45 A.M.
PHOENIX, ARIZONA

IN REPLY REFER TO:

(602) 723-5439

December 19, 1988

Mr. Lawrence A. Ramsey
Section Manager
Surface Water/Adjudication
Arizona Department of Water Resources
99 E. Virginia Avenue
Tucson, Arizona 85004

Subject: Application for Permit to Appropriate
Public Waters No. 33-87114

	Date/Int.
DSG/930JL&RR	_____
Chief(931)	_____
Realty Spec.	_____
Archeologist	_____
Recreation	_____
Wilderness	_____
Plan. & Env.	_____
Writer/Editor	_____
Chief(931) <i>SWR 12/27</i>	_____
Hydrologist <i>1/3</i>	_____
Range Con.	_____
Wildlife Bio.	_____
WHB/Forestry	_____
Secretary	_____
_____	_____
_____	_____
Action	Info

Dear Mr. Ramsey:

Based upon a review of the available material and information provided by Mr. William Swan of the Field Solicitors Office. The San Carlos Irrigation Project agrees to withdraw its protest on Application No. 33-87114 for instream flow in Aravaipa Creek.

Should you have questions please call.

Sincerely,

Acting Project Engineer

cc: Ray A. Brady, Bureau of Land Management
cc: Dan Maglothlin, BLM - state office 12-21-88

Enclosure 1

FM00142



United States Department of the Interior

IN REPLY REFER TO:

7250
(044)

BUREAU OF LAND MANAGEMENT SAFFORD DISTRICT OFFICE

425 E. 4th Street
Safford, Arizona 85546

(602) 428-4040

November 30, 1988

Mr. Douglas D. Mason
General Manager
San Carlos Irrigation and Drainage District
P.O. Box 218
Coolidge, Arizona 85228

Dear Mr. Mason:

We have received the San Carlos Irrigation and Drainage District's protest of Application No. 33-87114 for instream flow in Aravaipa Creek.

This is not a new application, but merely a reposting that was necessitated by a clerical error on the original application. The initial posting in 1981 was not protested by the San Carlos Irrigation and Drainage District (SCIDD), and the revised posting does not increase the amount of water requested.

Water will not be diverted from Aravaipa Creek, but instead would be allowed to flow through the canyon, supporting the native fish and wildlife. It is our position that, if the Department of Water Resources grants this instream flow right to BIM, the security of water users further downstream, such as SCIDD, would be enhanced. The result of this application will place the BLM in the position where we could protest any new diversion upstream while diverting no water ourselves. This would benefit your irrigation district by guaranteeing that at least 10,840 acre-feet per year of flow exit the BLM wilderness.

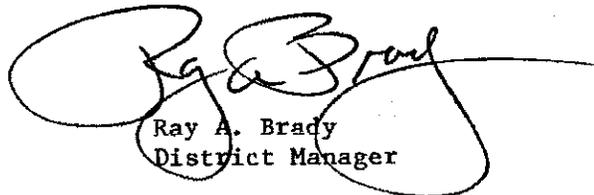


Enclosure 2-1

FM00143

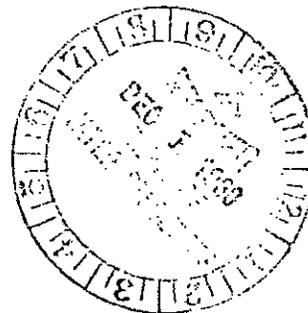
We ask that you withdraw your protest of this application based on the above clarification. If you wish further details, feel free to call Bill Swan, Interior Solicitor, in Phoenix at 261-4756, or me at the above number.

Sincerely,



Ray A. Brady
District Manager

cc: Lawrence A. (Al) Ramsey
Surface Water/Adjudication
Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007

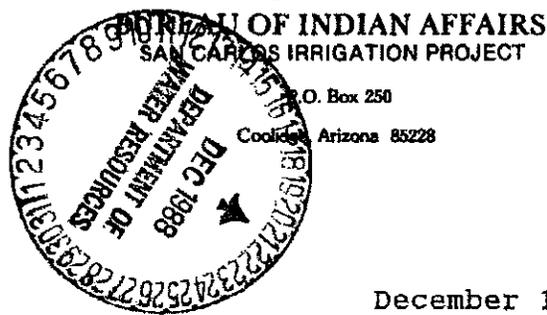


Enclosure 2-2

FM00144



United States Department of the Interior



IN REPLY REFER TO:

(602) 723-5439

December 19, 1988

Mr. Lawrence A. Ramsey
Section Manager
Surface Water/Adjudication
Arizona Department of Water Resources
99 E. Virginia Avenue
Tucson, Arizona 85004

Subject: Application for Permit to Appropriate
Public Waters No. 33-87114

Dear Mr. Ramsey:

Based upon a review of the available material and information provided by Mr. William Swan of the Field Solicitors Office. The San Carlos Irrigation Project agrees to withdraw its protest on Application No. 33-87114 for instream flow in Aravaipa Creek.

Should you have questions please call.

Sincerely,

Acting Project Engineer

cc: Ray A. Brady, Bureau of Land Management

cc: Dan McGlothlin, BLM - state office 12-21-88



ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

15 South 15th Avenue
Phoenix, Arizona 85007

December 27, 1988

Bureau of Land Management
Safford District Office
425 East 4th Street
Safford, Arizona 85546

RE: Application for Permit to Appropriate Public Waters No. 33-87114

Dear Sir:

Enclosed please find a copy of a letter withdrawing a protest of the referenced application submitted by J. Heartz of the Bureau of Indian Affairs.

Very truly,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:im

Enclosure

FM00146



ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

15 South 15th Avenue
Phoenix, Arizona 85007

December 1, 1988

Douglas D. Mason
General Manager
San Carlos Irrigation and Drainage District
P.O. Box 218
Coolidge, Arizona 85228

RE: Application for a Permit to Appropriate Public Water No. 33-87114.

Dear Mr. Mason:

Enclosed is a reply to your response by Ray A. Brady, on behalf of the Bureau of Land Management to your protest of the referenced application.

Please review the reply to your response carefully and determine if Mr. Brady has provided sufficient information to assure you that your claimed water right will not be adversely impacted by the applicant's filing.

Whatever your decision, please inform the Department in writing, providing an original and one copy, with a copy of your letter to the Bureau of Land Management.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:im

Enclosure

CC: Ray A. Brady, Bureau of Land Management



United States Department of the Interior

IN REPLY REFER TO:

7250
(044)

BUREAU OF LAND MANAGEMENT SAFFORD DISTRICT OFFICE

425 E. 4th Street
Safford, Arizona 85546

(602) 428-4040

November 30, 1988

Mr. Douglas D. Mason
General Manager
San Carlos Irrigation and Drainage District
P.O. Box 218
Coolidge, Arizona 85228

Dear Mr. Mason:

We have received the San Carlos Irrigation and Drainage District's protest of Application No. 33-87114 for instream flow in Aravaipa Creek.

This is not a new application, but merely a reposting that was necessitated by a clerical error on the original application. The initial posting in 1981 was not protested by the San Carlos Irrigation and Drainage District (SCIDD), and the revised posting does not increase the amount of water requested.

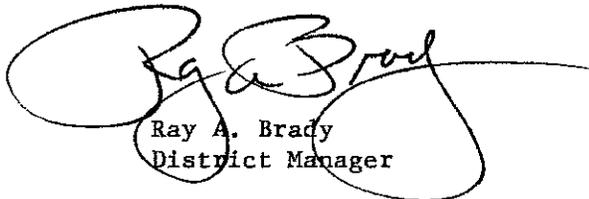
Water will not be diverted from Aravaipa Creek, but instead would be allowed to flow through the canyon, supporting the native fish and wildlife. It is our position that, if the Department of Water Resources grants this instream flow right to BLM, the security of water users further downstream, such as SCIDD, would be enhanced. The result of this application will place the BLM in the position where we could protest any new diversion upstream while diverting no water ourselves. This would benefit your irrigation district by guaranteeing that at least 10,840 acre-feet per year of flow exit the BLM wilderness.



FM00148

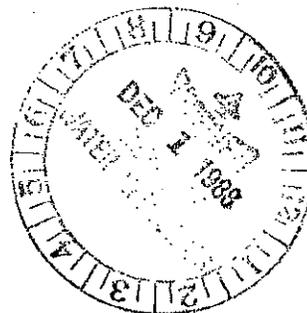
We ask that you withdraw your protest of this application based on the above clarification. If you wish further details, feel free to call Bill Swan, Interior Solicitor, in Phoenix at 261-4756, or me at the above number.

Sincerely,



Ray A. Brady
District Manager

cc: Lawrence A. (Al) Ramsey
Surface Water/Adjudication
Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007





November 22, 1988

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

15 South 15th Avenue
Phoenix, Arizona 85007

Bureau of Land Management
Safford District Office
425 East 4th Street
Safford, Arizona 85546

RE: Application for Permit to Appropriate Public Waters No. 33-87114.

Dear Sir:

Enclosed please find a copy of a protest of the referenced application submitted by San Carlos Irrigation and Drainage District.

The Department of Water Resources will not take any action towards the issuance of a permit until the protest has been resolved. You may wish to file a written response to the protest within thirty (30) days from the date of this letter. Should you elect to do this, please send the original and one copy to this department and furnish a copy to the protestant.

Essentially, it is up to you to negotiate with the protestant for a resolution of the issues of protest. It has been our experience that sometimes a direct contact with the protestant, explaining in person the nature and extent of your application, will resolve the issues raised by the protestant. In this connection, we do not presume to advise you.

Your negotiation may include an agreement to modify your application. It is important that you send a copy of any correspondence, memorandum of telephone calls or meetings, or copies of agreements to the Department of Water Resources for inclusion in the referenced file.

Any modifications to the application or a withdrawal of the protest must be submitted to the Department of Water Resources in writing by the appropriate party.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:im

cc: San Carlos Irrigation and Drainage District

FM00150

SAN CARLOS IRRIGATION AND DRAINAGE DISTRICT

BOARD OF DIRECTORS

ED R. WILDERMUTH, PRESIDENT
J. MICHAEL URTON, SECRETARY
MICKEY A. CLARK
STEVEN M. DALEY
JOHN H. DERMER
HOWARD HOLLAND
JIM A. PATE
JACK A. ROBERTS
C. R. "BOBBY" SKOUSEN

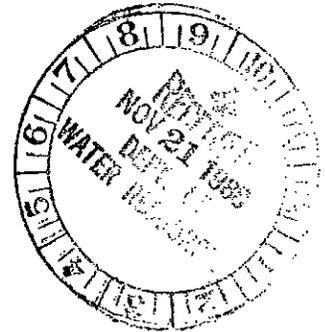
P. O. BOX 218
COOLIDGE, ARIZONA 85228

DOUGLAS D. MASON
GENERAL MANAGER

HUGH A. FERGUSON
ASSISTANT MANAGER

TELEPHONE
(602) 723-5408

November 17, 1988



Arizona Department of
Water Resources
15 S. 15th Avenue
Phoenix AZ 85007

Re: Protest of San Carlos Irrigation and Drainage
District to Notice of Application to Appropriate
Water - No. 33-87114

Gentlemen:

Protest is hereby made on behalf of the San Carlos Irrigation and Drainage District, to the Notice of Application to Appropriate Water for Bureau of Land Management, Safford District Office, 225 East 15th Street, Safford, Arizona 86005, to appropriate water from Apache Creek, a tributary of the San Carlos River.

This protest is made upon the grounds that the Gila River and its tributaries constitute the source of all of the water within the San Carlos Irrigation and Drainage District, together with all of the water within the San Carlos Federal Irrigation Project, which is appropriated and the rights thereto vest in the United States and in the amounts set forth and defined in the States of America v. Gila Valley Irrigation District, et al., in Cause No. 59 Globe Equity in the United States District Court for the District of Arizona, commonly known as the Gila Decree, which was entered June 29, 1908. Further, the rights of the District's landowners, as a part of the San Carlos Federal Irrigation Project, to the use and storage of water from the Gila River have been secured pursuant to the Act of May 18, 1916, entitled

NOV 17 1988

Arizona Department of
Water Resources
November 17, 1988
Page Two



Indian Appropriation Act for the Fiscal Year Ending June 30, 1917, 39 Stat. L. 123-130; the Act of June 7, 1924, commonly known as the San Carlos Project Act, 43 Stat. 475-476; and the Landowners Agreement with the Secretary of the Interior; San Carlos Project: Act of June 7, 1924. In addition, if not otherwise covered hereinabove, the District's landowners and others claim the right to divert from the normal and flood waters, as well as the appropriable subflow waters of the Gila River, in an amount up to the diversionary capacity of the Florence-Casa Grande Canal at Ashurst-Hayden Dam and the pumping capacity of the Project's wells for use upon District and Project lands and storage in Picacho Reservoir; the diversionary capacity of the San Tan Canal at Sacaton Diversion Dam near Olberg for use on Project lands and the diversionary capacity of the Diversion Dam at Gila Crossing for use upon the decreed lands situated within the Gila River Indian Reservation.

All of the aforesaid waters of the Gila River and its tributaries, excepting those diverted at Gila Crossing, are stored and diverted by the San Carlos Federal Irrigation Project and placed to beneficial use principally for agricultural purposes upon approximately 50,000 acres of land within the San Carlos Irrigation and Drainage District situated in Pinal County, Arizona, and approximately 50,456 acres of land within the Gila River Indian Reservation in Pinal County, Arizona, which together comprise the San Carlos Federal Irrigation Project. That said water is stored in San Carlos Reservoir and in Picacho Reservoir and diverted for beneficial use from the Gila River at Ashurst-Hayden Diversion Dam situated in the northwest quarter (NW 1/4) of Section 8, Township 4 South, Range 11 East, Gila and Salt River Base and Meridian, Pinal County, Arizona.

Arizona Department of
Water Resources
November 17, 1988
Page Three

Request is hereby made that in the event the Department does anything other than deny the subject Application that a formal hearing be held on the Application and that the San Carlos Irrigation and Drainage District be given due notice thereof and permitted to appear at such time and present such evidence as may be appropriate in support of our protest.

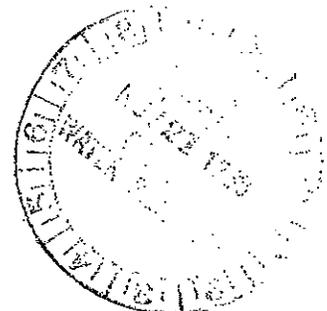
Sincerely,



Douglas D. Mason
General Manager

DDM:mja

cc: Bureau of Land Management
Ralph Esquerra
Riney B. Salmon II



FM00153



ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

15 South 15th Avenue
Phoenix, Arizona 85007

November 17, 1988

Mr. Ralph Esquerra
San Carlos Irrigation Project
P. O. Box 250
Coolidge, Arizona 84228

RE: Application for Permit to Appropriate Public Waters
No. 33-87114.

Dear Mr. Esquerra:

Enclosed is a copy of the response by Ray A. Brady, on behalf of the Bureau of Land Management to your protest of the referenced application.

Please review the response to your protest carefully and determine if Mr. Brady has provided sufficient information to assure you that your claimed water right will not be adversely impacted by the applicant's filing.

Whatever your decision, please inform the Department in writing, providing an original and one copy, with a copy of your letter to the Bureau of Land Management.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 542-1581

LAR:as

Enclosure

cc: Ray A. Brady, Bureau of Land Management



United States Department of the Interior

IN REPLY REFER TO:

7250
(044)

BUREAU OF LAND MANAGEMENT SAFFORD DISTRICT OFFICE

425 E. 4th Street
Safford, Arizona 85546
(602) 428-4040

November 15, 1988

Mr. Ralph Esquerra, Project Engineer
Bureau of Indian Affairs
San Carlos Irrigation Project
P.O. Box 250
Coolidge, Arizona 84228

Dear Mr. Esquerra:

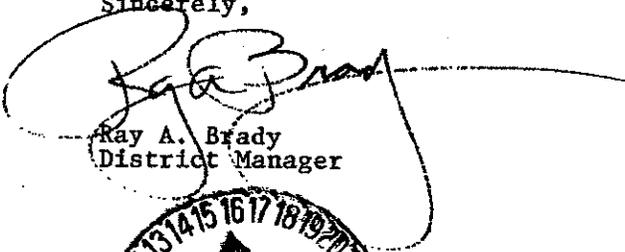
We have received the San Carlos Irrigation Project's protest of Application No. 33-87114 for instream flow in Aravaipa Creek.

This is not a new application, but merely a reposting that was necessitated by a clerical error on the original application. The initial posting in 1981 was not protested by the San Carlos Irrigation Project, and the revised posting does not increase the amount of water requested.

Water will not be diverted from Aravaipa Creek, but instead would be allowed to flow through the canyon, supporting the native fish and wildlife. It is our position that, if the Department of Water Resources grants this instream flow right to BLM, the security of water users further downstream, such as the San Carlos Irrigation District, would be enhanced. The approval of this application will place the BLM in the position where we could protest any new diversion upstream while diverting no water ourselves. This would benefit your irrigation project by guaranteeing that at least 10,840 acre-feet per year of flow exit the BLM wilderness.

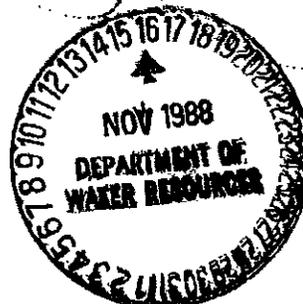
We ask that you withdraw your protest of this application based on the above clarification. If you wish further details, feel free to call Bill Swan, Interior Solicitor, in Phoenix, at 261-4756, or me at the above number.

Sincerely,


Ray A. Brady
District Manager

cc:

Lawrence A. (Al) Ramsey
Surface Water/Adjudication
Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007



FM00155



United States Department of the Interior

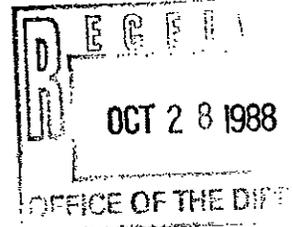
IN REPLY REFER TO:
7250
(044)

BUREAU OF LAND MANAGEMENT SAFFORD DISTRICT OFFICE

425 E. 4th Street
Safford, Arizona 85546
(602) 428-4040

October 25, 1988

Mr. C. Laurence Linser, Acting Director
Department of Water Resources
99 E. Virginia Ave.
Phoenix, Arizona 85004



Dear Mr. Linser:

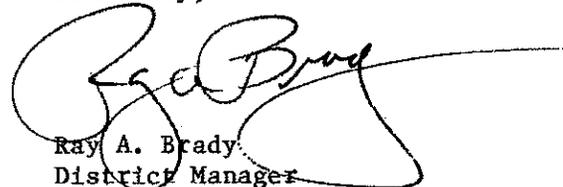
Enclosed is a copy of our Assessment of Water Resource Conditions in Support of Instream Flow Water Rights for Aravaipa Creek. We have monitored the streamflow in Aravaipa since filing our Application for Permit to Appropriate Water in 1981, and have provided this data in support of our request.

The report addresses the wildlife and recreational needs associated with the perennial flow. We have included a copy of the U.S. Fish and Wildlife Service's report, Evaluation of the Instream Flow Requirements of the Native Fishes of Aravaipa Creek, Arizona, by Incremental Methodology, which evaluates flow needs for the protection of two federally threatened fish species which occur in the creek.

As required in DWR's September 28, 1988, letter, we posted copies of the Notice of Posting on October 17, 1988, and will forward the Affidavit of Posting Notice to your office after the 30-day posting period has ended.

We trust that our report will serve as ample justification for approval of the instream flow water right for Aravaipa Creek requested in Application No. 33-87114.

Sincerely,



Ray A. Brady
District Manager

Enclosure

FM00156



October 21, 1988

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Bureau of Land Management
Safford District Office
425 East 4th Street,
Safford, Arizona 85546

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

15 South 15th Avenue
Phoenix, Arizona 85007

RE: Application for Permit to Appropriate Public Waters
No. 33-87114 (Amended).

Dear Sirs:

Enclosed please find a copy of a protest of the referenced application submitted by the San Carlos Irrigation Project.

The Department of Water Resources will not take any action towards the issuance of a permit until the protest has been resolved. You may wish to file a written response to the protest within thirty (30) days from the date of this letter. Should you elect to do this, please send the original and one copy to this Department and furnish a copy to the protestant.

Essentially, it is up to you to negotiate with the protestant for a resolution of the issues of protest. It has been our experience that sometimes a direct contact with the protestant, explaining in person the nature and extent of your application, will resolve the issues raised by the protestant. In this connection, we do not presume to advise you.

Your negotiation may include an agreement to modify your application. It is important that you send a copy of any correspondence, memorandum of telephone calls or meetings, or copies of agreements to the Department of Water Resources for inclusion in the referenced file.

Any modifications to the application or a withdrawal of the protest must be submitted to the Department of Water Resources in writing by the appropriate party.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 255-1581

LAR:as

Enclosure

cc: San Carlos Irrigation Project

FM00157



United States Department of the Interior
BUREAU OF INDIAN AFFAIRS
SAN CARLOS IRRIGATION PROJECT

P.O. Box 250

Coolidge, Arizona 85228

IN REPLY REFER TO:
(602) 723-5439

October 13, 1988

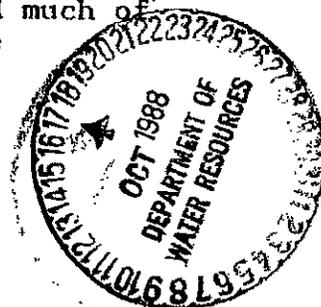
Mr. Richard A. Gessner
Chief, Records Section
Department of Water Resources
99 East Virginia, Suite 100
Phoenix, Arizona 85004

Dear Mr. Gessner:

Reference is made to Application No. 33-87114 filed by Bureau of Land Management, Safford District Office, 425 East 4th Street, Safford, Arizona 85546 for permit to appropriate public water of the State of Arizona and/or construct a reservoir and store water for beneficial use. The source of the water supply is Aravaipa Creek, a tributary of the San Pedro River. The proposed use and amount applied for is 3,620 acre feet per annum for recreation and 7,240 acre feet per annum for wildlife. The points of diversion water will not be diverted from the natural channel. The use will occur instream along the meandering course of Aravaipa Creek and portions of Hells Half Acre Canyon, Cave Canyon, Javalina Canyon, Virgus Canyon, Horse Camp Canyon, Booger Canyon, Paisano Canyon, Deer Creek, Parsons Canyon, and Turkey Creek.

If this Application is approved it would deprive the Indian and non-Indian water users of the San Carlos Irrigation Project, Bureau of Indian Affairs, water that has been used on certain of the Indian lands since time immemorial and on the non-Indian lands since as early as 1868. This is evidenced by the United States District Court in the Decree entered June 29, 1935 known as Globe Equity No. 59 (Gila Decree).

Waters of the Gila River and its tributaries have long been over appropriated and in most water years the irrigation water is in extremely short supply and much of the Project lands must remain idle because of the insufficient water supply.



FM00158

It is believed that the approval of this Application would result in the diminution of water of the Gila River and thus the rights of the San Carlos Irrigation Project water users would be adversely affected.

Waters of the Gila River and its tributaries are delivered directly to Project lands located in Townships 3, 4, 5, 6 and 7 South, and Ranges 4, 5, 6, 7, 8, 9 and 10 East, and to reservation lands lying in Townships 1 and 2 South, Ranges 1 and 2 East. All such waters are delivered to the described lands to the extent of all such water available. All deliveries are for irrigation purposes. The points of diversion are located in the NW 1/4 of Section 8, Township 4 South, Range 11 East (Ashurst-Hayden Dam), near the southwest corner of Section 7, Township 4 South, Range 7 East (Olberg Dam); in Section 25, Township 2 South, Range 2 East (Upper Gila Crossing Dam); and in Section 16, Township 2 South, Range 2 East (Lower Gila Crossing Dam).

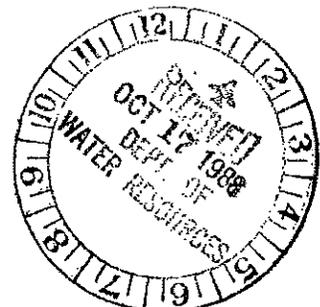
Request is hereby made that in the event the Department does anything other than deny the subject Application that a formal hearing be held on the Application and that the San Carlos Irrigation Project be given due notice thereof and permitted to appear at such time and present such evidence as may be appropriate in support of our protest.

Sincerely,



FOR Project Engineer

cc: Bureau of Land Management



FM00159



ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

99 E. Virginia Avenue
Phoenix, Arizona 85004

September 28, 1988

Bureau of Land Management
Safford District Office
425 East 4th Street
Safford, Arizona 85546

RE: Application for Permit to Appropriate Water No. 33-87114

Dear Sir:

Enclosed are two copies of the Notice of Posting and an Affidavit of Posting Notice.

The Notices must be posted within twenty days from the date of issuance appearing at the bottom thereof in two conspicuous public places and must remain posted continuously for thirty days. We suggest that one Notice be posted in the post office where those who reside in the locality of the proposed appropriation receive mail.

At the conclusion of the thirty day posting period, the Affidavit of Posting Notice, with one copy of the Notice attached, must be completed, notarized and filed with the Department of Water Resources.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 255-1581

LAR:im

Enclosures



September 27, 1988

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
C. Laurence Linser,
Acting Director

99 E. Virginia Avenue
Phoenix, Arizona 85004

Eastern Arizona Courier
203 Main Street
P.O. Box 667
Safford, Arizona 85546

RE: Application for Permit to Appropriate Public Waters No. 33-87114

Dear Editor:

The Department of Water Resources submits the following material which you may find newsworthy.

Enclosed are one or more copies of the notices required to be posted by an applicant seeking a permit to appropriate public waters of the State of Arizona.

The area and the permit sought may interest your readers.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Ramsey".

Lawrence A. (Al) Ramsey
Section Manager
Surface Water/Adjudication
Telephone (602) 2551581

LAR:im

Enclosures

FM00161



ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue
Phoenix, Arizona 85007

NOTICE OF APPLICATION TO APPROPRIATE WATER

3 R D A M E N D E D

On the 1st day of June, 19 81, Bureau of Land Management,

Safford District Office, 425 East 4th Street, Safford, Arizona 85546

filed Application for a Permit to Appropriate Public Water of the State of Arizona No. 33-87114

The application states:

1. Source of water Aravaipa Creek, a tributary of the San Pedro River.

2. Proposed use and amount 3,620 acre feet per annum for recreation and 7,240 acre feet per annum for wildlife.

3. Point of diversion water will not be diverted from the natural channel. The use will occur instream along the meandering course of Aravaipa Creek and portions of Hells Half Acre Canyon, Cave Canyon, Javalina (continued on attached pages)

4. Place(s) of use same as point of diversion.

5. Description of dam and reservoir N/A

Other: *** (more detailed information available at the Department of Water Resources) ***

Any person whose water rights may be affected may, within sixty days of the issuance of this Notice, file a written protest to the application with the Arizona Department of Water Resources, 15 South 15th Avenue, Phoenix, Arizona 85007. The protesting party shall send a copy of the protest to the applicant. The protest shall state:

- 1. The name and address of the protesting party.
2. The location of the protesting party's point of diversion of water.
3. The grounds for protest.
4. That a copy of the protest has been mailed or delivered to the applicant.

Issued this 28th day of September, 19 88.

FM00162

Defenders of Wildlife, 30 N. Tucson Blvd, Tucson, Arizona 85716
City of Tucson, P.O. Box 27210, Tucson, Arizona 85726
San Carlos Irrigation Project, P.O. Box 250, Coolidge, Arizona 85228
San Carlos Irrigation & Drainage District, P.O. Box 218, Coolidge, Arizona 85228

Canyon, Virgus Canyon, Horse Camp Canyon, Booger Canyon, Paisano Canyon, Deer Creek, Parsons Canyon, and Turkey Creek. Beginning at a point within the southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), and continuing through the Northwest quarter (NW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) the Northeast quarter (NE $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$) all within Section 13, Township 6 South, Range 17 East and continuing through the main stem of Aravaipa Creek in the Northwest quarter (NW $\frac{1}{4}$) of the Southwest Quarter (SW $\frac{1}{4}$), and a portion of Hells Half Acre beginning in the Southeast quarter (SE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$) and a portion of Cave Canyon beginning in the Northwest quarter (NW $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$), connecting with the main stem of Aravaipa creek in the Southwest quarter (SW $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$) and continuing through to the Southeast quarter (SE $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$) all within Section 18, 3 South, 18 East, and an unnamed tributary beginning in the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), all within Section 17 and continuing through to the Northeast quarter (NE $\frac{1}{4}$) of the Southeast (SE $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), connecting with the main stem of Aravaipa Creek in the Southeast quarter (SE $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$), and continuing through to the Southwest quarter (SW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Northeast quarter (NE $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) all within Section 18, and a portion of Javalina Canyon beginning in the Northeast quarter (NE $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$) both within Section 7 and connecting with Aravaipa Creek in the Northeast quarter (NE $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) Section 18, and continuing through to the main stem of Aravaipa Creek in the Southwest quarter (SW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$) both within Section 8 and continuing through to the Northeast quarter (NE $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) both within Section 17, and an unnamed tributary beginning in the Northeast quarter (NE $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), all within Section 8, connecting with the main stem of Aravaipa Creek in the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) of Section 17, and a portion of Virgus Canyon beginning in the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$) all within Section 16 and continuing through to the Northeast quarter (NE $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), connecting with the main stem of Aravaipa Creek in the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), and continuing through to the Northeast quarter (NE $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) all within Section 17, and continuing through to the Northwest quarter (NW $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$), of Section 16 and a portion of Horse Camp Canyon beginning in the Northeast quarter (NE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$) all within Section 9 and connecting with the main stem of Aravaipa Creek in the Northwest quarter (NW $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$) of section 16, and an unnamed canyon beginning in the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) and continuing through the Northeast quarter (NE $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$) and connecting with the main stem of Aravaipa Creek in the Northwest quarter (NW $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$) and continuing through to the Southeast quarter (SE $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), Southeast quarter (SE $\frac{1}{4}$) of the

Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$) all within Section 13 and connecting with the main stem of Aravaipa Creek, in the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), and continuing through the Southwest quarter (SW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Northeast quarter (NE $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southeast quarter (SE $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$) all within Section 24, all within Township 6 South, Range 18 East, Pinal County and continuing through the Southwest quarter (SW $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), connecting with a portion of Turkey Creek beginning in the Northeast quarter (NE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$) and continuing through to the Northwest quarter (NW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$) all within Section 19, and continuing through the Northwest quarter (NW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Northeast quarter (NE $\frac{1}{4}$), the Northwest quarter (NW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$), all within Section 30, and continuing through the Southwest quarter (SW $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$), of Section 29, and ending at a point within the Southwest quarter (SW $\frac{1}{4}$) of the Southeast quarter (SE $\frac{1}{4}$) Section 30, all within Township 6 South Range 19 East, Gila and Salt River Base and Meridian, Graham County, Arizona.

DEPARTMENT OF WATER RESOURCES

99 East Virginia Avenue
Phoenix, Arizona 85004

2nd AMENDED

APPLICATION FOR PERMIT TO APPROPRIATE WATER
STATE OF ARIZONA

Application No.	33-87114
Permit No.	
Filed: 6/1/81	at 10:23A.M.
(date)	(time)

Examination Fee \$3.00
Map (see Instructions)

APPLICATION MUST BE SUBMITTED IN DUPLICATE

To be filled in by Department
of Water Resources

1. Name of Applicant: USDI, Bureau of Land Management, Arizona State Office
2400 Valley Bank Center, Phoenix, Arizona 85073 (602) 261-3141
(Address, City, State, Zip) (Phone No.)

2. Indicate by an (x) on the proper line(s) the use(s) for which this application is being submitted:
Irrigation ___ Domestic ___ Stockwatering ___ Municipal ___ Power ___ Mining ___ Other Uses X.
(Aesthetic, Recreation, and Wildlife)

3. If for irrigation purposes, fill in the following:

Township (N/S)	Range (E/W)	Section	Legal Subdivision	No. of Acres

If for domestic purposes, number of persons _____, or families _____.
If for stockwatering purposes, number and kind of stock watered _____
If for municipal purposes, name of municipality _____
If for power purposes, type of plant, size and rated capacity _____

If for mining, the water will be used in _____ mine.
If for other uses, describe Retention of aesthetic values for outdoor recreation and maintenance of the ecosystem to meet the needs of the fisheries, wildlife and riparian

4. For each use applied for (use symbols) state amount of water required for each use: habitat.
Irrigation - (I), Domestic - (D), Stockwatering - (S), Municipal - (M), Power - (P), Mining - (Mi),
Other uses - (O).

Symbol	Amount	Unit	From	To
0 - (Recreation)	0	cfs/gpm or	01/01	12/31
0 - (Wildlife)	7240	cfs/gpm or	01/01	12/31
-		cfs/gpm or		

5. The direct source of supply is Aravaipa Creek
tributary to _____ on the San Pedro watershed.
(leave blank)

6. The point of diversion (locate on map) is within the (see Explanatory)
Range _____, G&SRB&M., in the County of Graham, Section _____, of Township _____
(E/W) see letter dated 8-11-88 (N/S)

7. The place of use (locate on map) is in the (see Explanatory)
Range _____, G&SRB&M., in the County of Graham, Section _____, of Township _____
(E/W) see letter dated 8-11-88 (N/S)

8. Description of the proposed works by which the water is to be put to beneficial use N/A

9. If water is to be stored, give capacity of reservoir in acre feet N/A, height of dam _____
ft., area inundated in acres _____. Use explanatory sheet for capacity for each foot of depth.

10. Construction Schedule. It is proposed to begin construction within N/A after approval of this application, to complete construction within (not over 2 years) thereafter, and to completely apply the water to the proposed use within (not more than 4 years) after the beginning of construction. (not more than 5 years)

11. Is the land owned by the applicant? Yes X No _____. If "No" explain on page 2.
12. Is the water to be used supplementally with other water(s)? Yes ____ No X. If "Yes" identify other waters or water rights on page 2.



IN REPLY REFER TO:

7250
(044)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
SAFFORD DISTRICT OFFICE

425 E. 4th Street
Safford, Arizona 85546
(602) 428-4040

August 11, 1988

Mr. Lawrence A. Ramsey
Branch Chief
Surface Water/Adjudication
Department of Water Resources
99 E. Virginia Ave.
Phoenix, Arizona 85004

Dear Mr. Ramsey:

In 1981, the Bureau of Land Management, through its Arizona State Office, filed an Application for Permit to Appropriate Water to request an instream flow water right for Aravaipa Creek. The number assigned to our application was 33-87114.

We are currently in the process of completing a nomination package to finalize our request. In reviewing our application, we noticed that the legal description typed onto the form was incorrect. Our original handwritten copy had the correct legals, but somehow those were changed. We would like to amend our application to reflect the correct legal description of the nominated segment of Aravaipa Creek as follows:

T. 6 S., R. 19 E.	Sec. 19, W $\frac{1}{2}$ (beginning of BLM land)
T. 6 S., R. 18 E.	Sec. 24, N $\frac{1}{2}$
	Sec. 23, NE
	Sec. 14
	Sec. 15, N $\frac{1}{2}$
	Sec. 16, N $\frac{1}{2}$
	Sec. 17, N $\frac{1}{2}$
	Sec. 18
	Sec. 8, SW
	Sec. 7, SE
T. 6 S., R. 17 E.	Sec. 13, E $\frac{1}{2}$ (end of BLM land).

Thank you for your assistance.

Sincerely,

Meg Jensen
Gila Area Manager

FM00169



UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
PHOENIX FIELD OFFICE
L'AIGLON COURTS
505 NORTH 2ND STREET, SUITE 150
PHOENIX, ARIZONA 85004

COMM. (602) 261-4756
FTS: 261-4756

RECEIVED
MAY 23 1988
WATER RESOURCES

May 19, 1988

Mr. Herb Dishlip
Arizona Department of Water Resources
99 East Virginia
Phoenix, Az

Re: Instream Flow Water Right Applications

Dear Herb:

First, let me apologize for the delay in writing to you about this matter. Although I discussed this issue with the BLM and the Forest Service several months ago, due to the press of other work I have been unable to complete this letter.

I have discussed with the agencies the question concerning which federal agency application for instream flow-type water rights should be processed first by DWR. The agencies and I agree that Aravaipa Creek would be our preferred choice for the following reasons:

1. We believe that Aravaipa was the first such application submitted by either the BLM or the Forest Service. Since it has been pending for several years, we believe that it would be appropriate for DWR to address that application ahead of the others.
2. As we understand it, the BLM Aravaipa Creek application has not been protested. As a result, we believe that it will be easier for the government and DWR to focus on the technical aspects of the quantification process since we will not have to go through the whole hearing procedure.
3. The BLM has obtained an analysis of the instream use needs in accordance with an acceptable methodology. Although this study may not be as thorough as the recent San Pedro study, the Bureau can nevertheless be prepared in the near future to provide DWR with the necessary technical information to support the amounts requested in the application.

Accordingly, we recommend that DWR advance the Aravaipa Creek application toward resolution. In making this recommendation it is important to note that BLM management will commit time, manpower and money toward this effort if it is clear that DWR will in fact actively process the application. Therefore, it would be helpful to us if you would notify the Bureau of your intention to move forward on the Aravaipa application, if that is

FM00170

the one you choose to do first, so that the Bureau can take the steps to finalize their data and prepare to provide DWR with whatever information will be necessary to reach a final decision.

In order to get things moving, we offer the suggestion that it may be helpful for you to discuss informally with the Bureau a proposed schedule to follow. That way both sides will be committed to an initial time-line, and that will help in regard to the planning of financial commitments, etc.

We appreciate your attention to our concerns, and we look forward to working with you on this important matter.

Sincerely,

Fritz L. Goreham
Field Solicitor



William H. Swan
For the Field Solicitor

cc: Dan McGlothlin, BLM, State Office
Ray Brady, Safford District, BLM
Doug Shaw, U.S. Forest Service, Albuquerque, N.M

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

MEMORANDUM

TO: Greg Wallace, Hydrology

FROM: Al Ramsey, Operations *AR*

DATE: February 14, 1986

SUBJECT: Minimal Flow Rights

On January 17th a meeting was held concerning the above subject. In attendance were Dick Wells, Herb Dishlip, Dick Gessner, George Schade, Frank Putnam and myself.

At the conclusion of discussion, Dick Wells stated that the DWR would continue to accept and process applications to appropriate public water for minimal flow rights. The Hydrology Division is to develop guidelines for handling these types of applications in general. It is understood that Phil Briggs is reviewing those guidelines at this time. Further, the Hydrology Division was to be requested, on a case by case basis, to recommend minimum flow quantities and methodology for measurement (location, season, etc.).

BLM application 33-87114 for minimum flow rights in Aravaipa Creek is now a candidate for permit. It is requested that the Hydrology Division review this application and recommend the minimum flow quantity and methodology for measurement to be specified on the permit.

State of Arizona
DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

July 12, 1983

Fritz U. Rennebaum
Acting District Manager
Bureau of Land Management
Safford District
425 East 4th Street
Safford, Arizona 85546

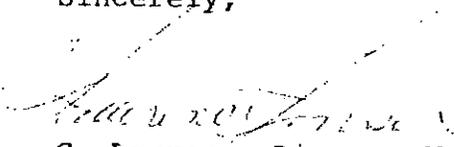
RE: Application to Appropriate No. 33-87114

Dear Mr. Rennebaum:

Thank you for your letter of June 22, 1983,
regarding the referenced application.

As soon as the issues raised on rehearing or
review of the pending applications of the Arizona Nature
Conservancy are resolved, the Department will begin
working on the Bureau's application.

Sincerely,


C. Laurence Linser, Chief
Water Rights Administration
and Planning

CLL/kn

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00173

DEPARTMENT OF WATER RESOURCES
Hydrology

MEMORANDUM

TO: George A. Schade, Jr.
THROUGH: Frank Putman *FP*
FROM: Clay Cady *CC*
DATE: June 28, 1983
SUBJECT: Hydrologic Criteria for
Establishing Instream Appropriations

The Hydrology Division was asked by the Legal Division of DWR to start developing hydrologic criteria for establishing an instream appropriation. It has become apparent with a small amount of research that each application to appropriate public water for an instream use must be evaluated on an individual case basis. There are several considerations that should be met. First is a definition of an "instream appropriation" of public waters. This memo defines an instream appropriation as an appropriation of a flow regime for the purpose of maintaining an activity or habitat such as power generation, recreation, or riparian habitat. Water is not actually diverted but is preserved in its course at a specified rate or duration with no new consumptive use and no new detrimental effects on the water quality of the stream. The effect of such an instream appropriation is to protect minimum flow for the intended use from subsequent applications to appropriate public water.

With this definition in mind, the general criteria for an instream appropriation are: 1) use must be for instream applications only; 2) water quality must not change with the use; 3) the requested flow regime must not affect prior appropriations; 4) the use cannot increase consumptive use; and 5) the required flow regime must be proven to exist by the applicant.

Memo to George A. Schade, Jr.
June 28, 1983
Page Two

With these criteria in mind, the Application to Appropriate Public Water should be revised to be more specific about the type of use, and the specific flow regime requested. The application should also include all supporting hydrologic data to substantiate the requested flow regime, and should substantiate the need for the required regime. Data to support the five criteria above should be reviewed by the Department prior to evaluating any instream appropriation application.

We should arrange a time to discuss this memo further as to where to proceed with it.

nh

MILHOUS, ROBERT T. 1979.

The phabsim system for instream flow studies, Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

MILHOUS, ROBERT T. and GRENNEY, WILLIAM J.

The quantification and reservation of instream flows, Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

PRUITT, THOMAS A. and NADEAU, RICHARD L., 1978.

Recommended stream resource maintenance flows on seven southern Idaho streams. Instream Flow Information Paper: No. 8. Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

STALNAKER, C. B.

Low flow as a limiting factor in warmwater streams, Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

STALNAKER, C. B. and ARNETTE, J., 1977.

Methodologies for the determination of stream resources flow requirements: An Assessment. U.S. Fish and Wildlife Service, Office of Biological Services, Washington, D. C.

REFERENCES

The references below provide greater detail on various hydrologic and legal aspects of instream appropriations.

BAYHA, KEITH, 1978.

Instream flow methodologies for regional and national assessments.
Instream flow information paper: No. 7. Cooperative Instream Flow Service Group, U. S. Fish and Wildlife Service, Fort Collins, Colorado.

BOVEE, KEN D AND MILHOUS, ROBERT, 1978.

Hydraulic simulation in instream flow studies theory and techniques.
Cooperative Instream Flow Information Paper: No. 5. Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

HYDRA, RONALD, 1976.

Methods of assessing instream flows for recreation, Instream Flow Information Paper: No. 6. Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

INTERAGENCY TASK FORCE - INSTREAM FLOWS, WATER POLICY IMPLEMENTATION, 1979.

Identification of existing federal water resources development projects where instream flow uses could be improved.

_____ 1979.

Guidelines for determining instream flow needs.

_____ 1979.

Need for legislative amendments to existing water resource project legislation.

_____ 1979.

General review of planning procedures of water resources development.

_____ 1979.

Federal legislation for the protection and maintenance of instream flows.

LAMB, BERTON L. and SWEETMAN, DEBRA A., 1979.

Guidelines for preparing expert testimony in water management decisions related to instream flow issues. Instream Flow Information Paper: No. 1 Cooperative Instream Flow Service Group, U.S. Fish and Wildlife Service, Fort Collins, Colorado.

DEPARTMENT OF WATER RESOURCES
ADJUDICATIONS

MEMORANDUM

TO: George Schade
FROM: Brian Kirby
DATE: January 19, 1983
SUBJECT: Bureau of Land Management No. 33-87114
Instream Flow

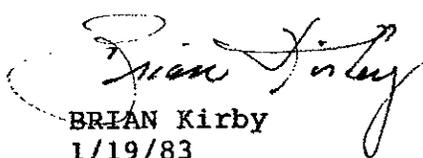
Mr. Delbert Molitar, Bureau of Land Management called this AM and wanted to know the status of the subject application.

Per short conversation with you, I informed him that the Department of Water Resources was in the process of developing guidelines for determining instream flow. I also told him I would keep him informed of future developments.

I have worked up a chronology on the application and a copy is attached.

I talked with Frank Putman this PM and he told me that the two of you had discussed this situation yesterday and that he would try to get something started in a week or two.

If you receive any information on this matter, I would appreciate a call on same.


BRIAN Kirby
1/19/83

cc: Larry Linser
Steve Erb

Enclosure

FM00178

Bureau of Land Management
Application No. 33-87114

6/01/81 BLM filed application: No. 33-87114

6/23/81 Letter DWR/BLM - Returning application for amendments
1st Amendment
2nd Amendment

9/30/81 Notice of application to appropriate.

*10/16/81 Protest by BIA - San Carlos Irrigation Project.

10/22/81 Form letter DWR/BLM indicating protest by BIA.

11/09/81 Letter Harold Ramsbacher (BLM)/Wes Steiner.
Encloses an amended application.

11/23/81 Amended notice of application to appropriate.

12/01/81 BIA protest.

12/16/81 Form letter DWR/BLM - notice of BIA protest letter
BLM/DWR - correction of legal description.

12/18/81 2nd amended notice of application to appropriate.

1/06/82 Letter Geo Schade/BLM - BIA - Solicitor, U.S. Department
of Interior. Schade suggests discussion.

2/01/82 Affidavit of posting.
Letter BIA/DWR - BIA still protesting.

2/02/82 Pre hearing conference - Sierra Vista.

2/10/82 DWR/BLM - BLM being advised of 2/1/82 protest.

2/12/82 Letter BLM/DWR enclosing affidavit of posting on 33-87114
etc.

2/26/82 Letter suggest location for hearings.

*3/16/82 Letter BIA/DWR withdrawal of protest to No. 33-87114.

1/04/83 Memo - Geo Schade to Ed Nemecek - requests development
of guidelines for determination of instream flows.

1/20/83

FM00179



United States Department of the Interior
BUREAU OF INDIAN AFFAIRS
SAN CARLOS IRRIGATION PROJECT

P.O. Box 456
Coolidge, Arizona 85228

IN REPLY REFER TO:

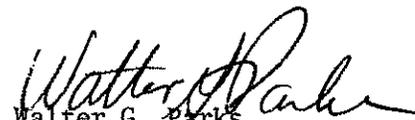
March 16, 1982

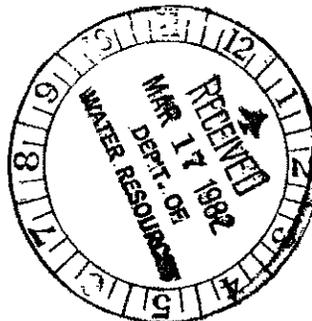
Department of Water Resources
P.O. Box 2600
Phoenix, Arizona 85002

Re: Application No. 33-87114
U.S. Bureau of Land Management

Dear Sir:

By our letter of October 16, 1981, the San Carlos Irrigation Project filed a protest in response to the referenced application which requested a permit to appropriate water from all tributaries in the Aravaipa Canyon Primitive Area and Aravaipa Creek, described as SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 19, T6S, R19E; and SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 30, T6S, R17E. The San Carlos Irrigation Project hereby withdraws its protest to this application.


Walter G. Parks
Acting Project Engineer



FM00180



United States Department of the Interior

IN REPLY REFER TO
7250

BUREAU OF LAND MANAGEMENT
District Office
425 East 4th Street
Safford, Arizona 85546

FEV 26 1982

Mr. George A. Schade, Jr.
Hearing Officer
Department of Water Resources
99 E. Virginia Avenue
Phoenix, Arizona 85004

Dear Mr. Schade:

In answer to your letter of February 10, 1982, about the Prehearing Conferences held February 2 and 3, 1982 in Sierra Vista, our BLM District Office wishes to proceed with the four applications to appropriate as submitted. The application numbers are 33-87114, 33-87232, 33-87233, and 33-87235.

Satisfactory locations for a hearing or hearings on application numbers 33-87114 and 33-87235 are San Manual, Winkleman, and Sierra Vista. San Manual and Winkleman are closest to the protested sources. The most satisfactory location for a hearing or hearings on application numbers 33-87323 and 33-87232 would be Safford because of the proximity of the protested sources. The date and time of the hearings to be at the discretion of yourself and other interested parties.

A copy of this letter will be sent to Mr. Walter G. Parks.

Sincerely,

Fritz U. Rennebaum
Fritz U. Rennebaum
Acting District Manager



FM00181



AFFIDAVIT OF POSTING NOTICE

2ND AMENDED

IN THE MATTER OF APPLICATION
No. 33-87114 **BEFORE THE STATE**
DEPARTMENT OF WATER RESOURCES

STATE OF ARIZONA }
County of GRAHAM } ss.

DELBERT MOLITOR, being first duly sworn, deposes
and says that two copies of the notice of Application No. 33-87114 before the
Director of the Department of Water Resources for Permit to Appropriate Public Water of the State of
Arizona, a true copy of which is hereto attached, were posted either by himself or in his presence on the
31TH day of DECEMBER, 19 81.

That one of said notices was posted _____
(Describe how and where posted as accurately as possible)
THUMB TACKED TO INSIDE WALL, NEAR DOOR, OF KLONDYKE POST OFFICE AND GENERAL
STORE.

and the other of said notices was posted _____
THUMB TACKED TO OUTSIDE BULLETIN BOARD IN FRONT OF THE DEPT ADMINISTRATION SITE
IN KLONDYKE.

That each of said notices thus posted occupied a conspicuous place in the locality to be affected by
the proposed appropriation of water, and remained so posted for thirty (30) consecutive days ending day
of FEBRUARY 1, 19 82.

Delbert A. Molitor

Subscribed and sworn before me this 11 day of February, 19 82.

Clarence F. Dougland
Notary Public

My commission expires My Commission Expires Apr. 18 1984



United States Department of the Interior

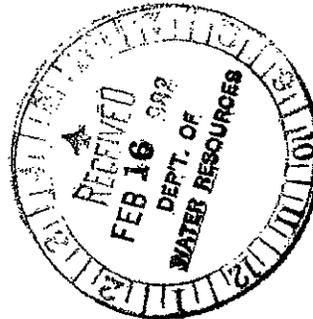
BUREAU OF LAND MANAGEMENT
District Office
425 E. 4th Street
Safford, Arizona 85546

IN REPLY REFER TO
7250

*Letter of
Transmittal*

February 12, 1982

Mr. Richard A. Gessner
Chief, Operations Branch
Department of Water Resources
State of Arizona
99 E. Virginia Avenue
Phoenix, Arizona 85504



Dear Gessner:

Enclosed are five Affidavit of Posting Notices for Application for Permit to Appropriate Water, Numbers 33-87114, 33-87232, 33-87233, 33-87234, and 33-87235. The notices were posted for 30 consecutive days, as instructed.

If there are questions about the notices or affidavits, please contact Mr. Delbert Molitor, District Hydrologist.

Sincerely,

Lester K. Rosenkrance

Lester K. Rosenkrance
District Manager

Enclosures: 5 Affidavits

FM00183

State of Arizona
DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Date: February 10, 1982

U.S.D.I., Bureau of Land Management
2400 Valley Bank Center
Phoenix, Arizona 85073

RE: Application for Permit to Appropriate Water No(s) 33-87114, 33-87232,
33-87233 and 33-87235

Dear Applicant:

Relative to the above referenced application which you filed with this department, enclosed is a copy of the Protest submitted by:

Ralph Esquerra, on behalf of the San Carlos Irrigation Project

You are advised that you have thirty days from this date within which to make such reply to this Protest as you may desire.

If a reply is made, please furnish it in duplicate.

Sincerely,

W. Don Maughan
Deputy Director

BY: 
Richard A. Gessner
Chief, Operations Branch

WDM:RAG:rh
Enclosure(s)

cc: Ralph Esquerra, Project Engineer

Think Conservation!

FM00184

Office of Director 255-1554

Administration 255-1550 Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548 Water Rights Administration 255-1581, Hydrology 255-1585

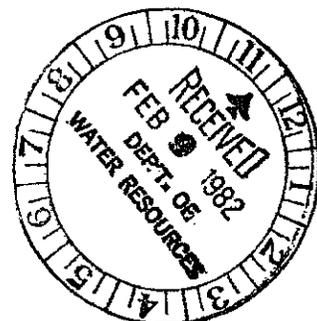


United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
SAN CARLOS IRRIGATION PROJECT

P.O. Box 456

Coolidge, Arizona 85228



IN REPLY REFER TO:

February 1, 1982

Richard A. Gessner
Chief, Records Section
Department of Water Resources
P.O. Box 2600
Phoenix, Arizona 85002

Dear Mr. Gessner:

Reference is made to the Notice of Application to Appropriate Water filed by U.S.D.I. Bureau of Land Management, Arizona State Office, 2400 Valley Bank Center, Phoenix, AZ 85073, for Application Nos: 33-87114, 33-87232, 33-87233 and 33-87235.

If these applications are approved it would deprive the Indian and non-Indian water users of the San Carlos Irrigation Project, Bureau of Indian Affairs, water that has been used on certain of the Indian lands since time immemorial and on the non-Indian lands since as early as 1868. This is evidenced by the United States District Court in the Decree entered June 29, 1935 known as Globe Equity No. 59 (Gila Decree).

Waters of the Gila River and its tributaries have long been over appropriated and in most water years the irrigation water is in extremely short supply and much of the Project lands must remain idle because of the insufficient water supply.

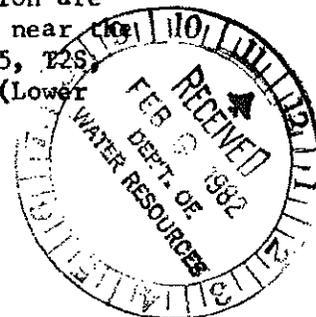
It is believed that the approval of these applications would result in the diminution of water of the Gila River and thus the rights of the San Carlos Irrigation Project water users would be adversely affected.

Waters of the Gila River and its tributaries are delivered directly to Project lands located in Townships 4, 5, 6 and 7 South, and Ranges 4, 5, 6, 7, 8, 9 and 10 East, and to reservation lands lying in Townships 1 and 2 South, Ranges 1 and 2 East. All such waters are delivered to the

described lands to the extent of all such water available. All deliveries are for irrigation purposes. The points of diversion are located in the NW $\frac{1}{4}$ of Sec. 8, T4S, R11E (Ashurst Hayden Dam), near the SW Corner of Section 7, T4S, R7E, (Oldberg Dam); in Section 25, T2S, R2E, (Upper Gila Crossing Dam); and in Section 16, T2S, R2E, (Lower Gila Crossing Dam).

Sincerely,


for Ralph Esquerra
Project Engineer



cc: U.S.D.I. Bureau of Land Management
Arizona State Office
2400 Valley Bank Center
Phoenix, AZ 85073

State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



January 6, 1982

BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Clair M. Whitlock
Arizona State BLM Director
United States Department of
the Interior
Bureau of Land Management
2400 Valley Bank Center
201 North Central Avenue
Phoenix, Arizona 85073

William H. Swan, Esquire
Office of the Solicitor
United States Department of
the Interior
2080 Valley Bank Center
201 North Central Avenue
Phoenix, Arizona 85073

Ralph Esquerro
Project Engineer
United States Department of
the Interior
Bureau of Indian Affairs
San Carlos Irrigation Project
P.O. Box 456
Coolidge, Arizona 85228

RE: Bureau of Land Management

Applications to Appropriate No. 33-87114, 33-87115,
33-87116, 33-87117, 33-87118, 33-87119, 33-87120,
33-87121, 33-87122, 33-87123, 33-87124, 33-87125,
33-87126, 33-87127, 33-87128, 33-87129, 33-87130,
33-87131, 33-87132, 33-87133, 33-87134, 33-87135,
33-87136, 33-87137, 33-87138, 33-87139, 33-87140,
33-87141, 33-87142, 33-87143, 33-87144, 33-87145,
33-87146, 33-87147, 33-87148, 33-87149, 33-87150, and
33-87151

Gentlemen:

Between June and October 1981, the United States Department of the Interior, Bureau of Land Management filed all of the above referenced applications to appropriate public waters of the State of Arizona. The United States Department of the Interior, Bureau of Indian Affairs, San Carlos Irrigation Project protested all of these applications on the grounds that their approval might conflict with the Project's claimed vested water rights. A preliminary examination of the applications by our Technical Support Staff shows that the majority involve stockponds.

As the Hearing Officer assigned to hear protested applications on the San Pedro River Watershed, I wish to inquire if meaningful discussions between the parties may lead to a satisfactory determination of the merits of either or both the

Think Conservation!

FM00187

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

Clair M. Whitlock
Ralph Esquerra
William H. Swan
Page 2
January 6, 1982

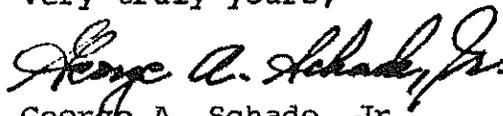
applications and protests. The fact that agencies of the same federal department have applied and protested these applications leads me to suggest such discussions. The Department of Water Resources has not made any determinations regarding either these applications or their individual protests nor will it make such determinations until and unless an administrative hearing is held, if one becomes necessary.

I would like to know if my suggestion has any merit, and if so, when could the parties discuss these applications? Of course, I will lend my assistance, within reasonable means, to the parties in any discussion.

If my suggestion does not have any merit in the opinion of the parties, please let me know.

Your kind attention and cooperation are appreciated.

Very truly yours,



George A. Schade, Jr.
Hearing Officer

GAS:slm

ARIZONA DEPARTMENT OF
WATER RESOURCES
99 East Virginia
Suite 100

Phoenix, Arizona 85004

2 N D A M E N D E D*

NOTICE OF APPLICATION TO APPROPRIATE WATER

(Per Rules and Regulations R12-5-502)

Application No. 33-87114

Notice is hereby given that on the 1st day of June, 19 81
U.S.D.I., Bureau of Land Mangement, 2400 Valley Bank Center, Phoenix, AZ 87073 filed
Application No. 33-87114, with the Department of Water Resources of Arizona, for Permit
to Appropriate Water of the State of Arizona.

DESCRIPTION OF PROJECT

Source of water supply is Aravaipa Creek on the San Pedro watershed.

Proposed use and amount applied for 3,620 acre feet per annum for the purpose of Other Uses
(Recreation) and 7,240 acre feet per annum for the purpose of Other Uses (Wildlife).

* Point of diversion within "Water is taken along a line known as Aravaipa Creek described as
follows: Starting in the SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 19, of Township 6 South, Range 19 East and
ending in the SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 13, Township 6 South, Range 17 East, G&SRB&M., in the
County of Graham."

Place of using water As above

Remarks: NOTICE TO APPLICANT AND TO:

City of Tucson, Attn: City Attorney, P. O. Box 27210, Tucson, Arizona 85726
San Carlos Irrig. & Drain. Dist., Attn: Morris M. Soma, P. O. Box 218, Coolidge, AZ 85228
San Carlos Project, Attn: W. P. Hauff, Bureau of Indian Affairs, P. O. Box 456, Coolidge,
Arizona 85228***** E. G. Salazar, Klondyke Station, Willcox, Arizona 85643
Defenders of Wildlife, 70 West Cushing Street, Tucson, Arizona 85701

PROTEST

Any person desiring to protest against the granting of such permit shall within 60 days from the date of posting of this notice file with the Department of Water Resources at Phoenix, a signed statement in duplicate clearly setting forth the protestant's objections to the approval of the application, which statement shall contain the following information:

- (1) Statement of the injury which would result to protestant from such appropriation and use.
- (2) The basis of protestant's water right, and date of initiation of the right.
- (3) Protestant's past and present use of water both as to amount used and land irrigated, or use made of water, if other than irrigation.
- (4) A description of the protestant's land or place of use, and the point of diversion of the water.
- (5) There may also be filed with such statement such maps and data as the protestant may care to submit in support of his protest.

Issued at Phoenix, Arizona

December 18, 19 81

Date of Posting _____

Arizona Department of
Water Resources
PAE

FM00189

State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Date: December 18, 1981

U.S.D.I., Bureau of Land Management
Arizona State Office
2400 Valley Bank Center
Phoenix, Arizona 85073

Re: ^(AMENDED) Application(s) for Permit to Appropriate (Public) Water No.(s): 33-87114

Dear Applicant:

Enclosed are:

- 1) Two copies of the Notice of posting of the above application(s);
- 2) An Affidavit of Posting Notice.

The two Notices must be posted within twenty (20) days from the date of issuance appearing at the bottom thereof in two conspicuous-to-the-public places, and MUST remain posted for thirty (30) days from the starting date of posting continuously until the expiration of thirty (30) days. We suggest that one Notice be posted in or near the post office where those who reside in the locality of the proposed appropriation receive mail.

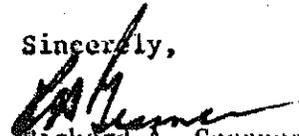
AT THE CONCLUSION OF THE 30-DAY POSTING PERIOD, the Affidavit of Posting Notice, with one copy of the Notice attached, should be completed and notarized. This will then constitute a sworn statement to the fact that the Notices have indeed been posted for the required thirty (30) days in public places.

Per Rules and Regulations R12-5-502 (State Land Department), your prompt attention to the posting of the two Notices and the return of the Affidavit (after 30 days of posting) will facilitate the progression of the application(s) through the various phases required by law before a Permit can be issued.

IMPORTANT: Before posting the Notices, please insert the date of posting on the bottom of each Notice.

RG:rh
Enclosures

Sincerely,


Richard A. Gessner
Chief, Operations Branch

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00190

State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

December 18, 1981

Eastern Arizona Courier
203 Main Street
P. O. Box 667
Safford, Arizona 85546

RE: Amended Application No.
33-87114

Dear Editor:

Wesley E. Steiner, Director of the Department of Water Resources of Phoenix, Arizona, submits the following material which you may find newsworthy.

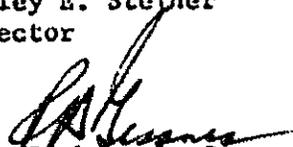
Enclosed are one or more copies of the Notice of Posting required to be posted by an applicant seeking a permit to appropriate public waters of the State and/or construct a reservoir to store water for beneficial use.

The area of interest and the permit sought may be of interest to you and to your readers.

Thank you.

Sincerely,

Wesley E. Steiner
Director

By: 
Richard A. Gessner
Chief, Operations Branch

WES/RAG/rh

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00191

State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Date: December 16, 1981

Bureau of Land Management
2400 Valley Bank Center
Phoenix, Arizona 85073

RE: Application for Permit to Appropriate Water No(s) 33-87114

Dear Applicant:

Relative to the above referenced application which you filed with this department, enclosed is a copy of the Protest submitted by:

Ralph Esquerro, on behalf of the Bureau of Indian Affairs

You are advised that you have thirty days from this date within which to make such reply to this Protest as you may desire.

If a reply is made, please furnish it in duplicate.

Sincerely,

W. Don Maughan
Deputy Director

BY: Richard A. Gessner
For Richard A. Gessner
Chief, Operations Branch

WDM:RAG:rh
Enclosure(s)

cc: Ralph Esquerro, Project Engineer
Bureau of Indian Affairs

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00192

Gessner



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
SAN CARLOS IRRIGATION PROJECT

P.O. Box 456
Coolidge, Arizona 85228



IN REPLY REFER TO:

December 1, 1961

Richard A. Gessner
Chief, Records Section
Department of Water Resources
P.O. Box 2600
Phoenix, Arizona 85002

Dear Mr. Gessner:

Reference is made to Application No. 33-87114 filed by U.S.D.I., Bureau of Land Management for permit to appropriate public water of the State of Arizona and/or construct a reservoir and store water for beneficial use. The source of the water supply is Aravaipa Creek on the San Pedro watershed. Proposed use and amount applied for is 3,620 acre feet per annum for the purpose of recreation and 7,240 acre feet per annum for other uses. Point of diversion is within the SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 19, of Township 6 South, Range 19 East and ending in the SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, Township 6 South, Range 17 East, G&SRB&M, in the County of Graham.

If this application is approved it would deprive the Indian and non-Indian water users of the San Carlos Irrigation Project, Bureau of Indian Affairs, water that has been used on certain of the Indian lands since time immemorial and on the non-Indian lands since as early as 1868. This is evidenced by the United States District Court in the Decree entered June 29, 1935 known as Globe Equity No. 59 (Gila Decree).

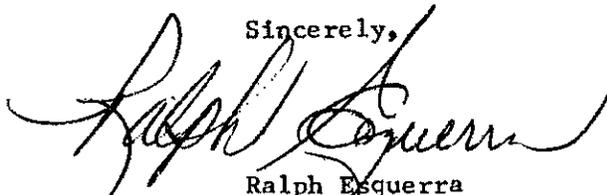
Waters of the Gila River and its tributaries have long been over appropriated and in most water years the irrigation water is in extremely short supply and much of the Project lands must remain idle because of the insufficient water supply.

It is believed that the approval of this application would result in the diminution of water of the Gila River and thus the rights of the San Carlos Irrigation Project water users would be adversely affected.

Waters of the Gila River and its tributaries are delivered directly to Project lands located in Townships 4, 5, 6 and 7 South, and Ranges 4, 5, 6, 7, 8, 9 and 10 East, and to reservation lands lying in Townships 1 and 2 South, Ranges 1 and 2 East. All such waters are delivered to the

described lands to the extent of all such water available. All deliveries are for irrigation purposes. The points of diversion are located in the NW¼ of Sec. 8, T4S, R11E (Ashurst Hayden Dam), near the SW Corner of Section 7, T4S, R7E, (Oldberg Dam); in Section 25, T2S, R2E, (Upper Gila Crossing Dam); and in Section 16, T2S, R2E, (Lower Gila Crossing Dam).

Sincerely,

A handwritten signature in cursive script, appearing to read "Ralph Esquerra".

Ralph Esquerra
Project Engineer

cc: U.S.D.I., Bureau of Land Management
2400 Valley Bank Center
Phoenix, AZ 85073



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
District Office
425 E. 4th Street
Safford, Arizona 85546

Gessner

IN REPLY REFER TO
7280



Mr. Richard A. Gessner
Chief, Operations Branch
Department of Water Resources
State of Arizona
99 E. Virginia Avenue
Phoenix, Arizona 85004

Dear Mr. Gessner

The amended Notice of Application to Appropriate Water, Application No. 33-87114, contains an error in one of the legal descriptions. Under the item, "Point of diversion", a portion of the last legal description is described as Section 30. It should be Section 13. This is a second correction of the original application.

If you should have any questions about this correction, please contact Delbert Molitor at this office.

Sincerely,

Steve K. Rosenkrance

District Manager

FM00195

ARIZONA DEPARTMENT OF
WATER RESOURCES
99 East Virginia
Suite 100
Phoenix, Arizona 85004

AMENDED
NOTICE OF APPLICATION TO APPROPRIATE WATER
(Per Rules and Regulations R12-5-502)

Application No. 33-87114

Notice is hereby given that on the 1st day of June, 19 81
U.S.D.I., Bureau of Land Management, 2400 Valley Bank Center, Phoenix, AZ 85073 filed
Application No. 33-87114 with the Department of Water Resources of Arizona, for Permit
to Appropriate Water of the State of Arizona.

DESCRIPTION OF PROJECT

Source of water supply is Aravaipa Creek on the San Pedro watershed.

Proposed use and amount applied for 3,620 acre feet per annum for the purpose of Other uses
(Recreation) and 7,240 acre feet per annum for the purpose of Other uses (Wildlife).

Point of diversion within Water is taken along a line known as Aravaipa Creek described
as follows: Starting in the SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 19, of Township 6 South, Range 19 East and
ending in the SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, Township 6 South, Range 17 East, G&SRB&M in the County
of Graham.

Place of using water same as above

Remarks: NOTICE TO APPLICANT AND TO:

City of Tucson, Attn: City Attorney, P.O. Box 27210, Tucson, Arizona 85726
San Carlos Irrigation & Drainage Dist., Attn: Morris M. Soma, P.O. Box 218, Coolidge 85228
San Carlos Irrigation Project, Attn: W.P. Hauff, P.O. Box 456, Coolidge, Arizona 85228
E. G. Salazar, Klondyke Station, Willcox, Arizona 85643
Defenders of Wildlife, 70 W. Cushing Street, Tucson, Arizona 85701

PROTEST

Any person desiring to protest against the granting of such permit shall within 60 days from the date
of posting of this notice file with the Department of Water Resources at Phoenix, a signed statement
in duplicate clearly setting forth the protestant's objections to the approval of the application, which
statement shall contain the following information:

- (1) Statement of the injury which would result to protestant from such appropriation and use.
- (2) The basis of protestant's water right, and date of initiation of the right.
- (3) Protestant's past and present use of water both as to amount used and land irrigated, or use made
of water, if other than irrigation.
- (4) A description of the protestant's land or place of use, and the point of diversion of the water.
- (5) There may also be filed with such statement such maps and data as the protestant may care to
submit in support of his protest.

Issued at Phoenix, Arizona

November 23, 19 81

Date of Posting _____

Arizona Department of
Water Resources

PAB

State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

November 23, 1981

Eastern Arizona Courier
203 Main Street
P.O. Box 667
Safford, Arizona 85546

RE: Amended Application No. 33-87114

Dear Editor:

Wesley E. Steiner, Director of the Department of Water Resources of Phoenix, Arizona, submits the following material which you may find newsworthy.

Enclosed are one or more copies of the Notice of Posting required to be posted by an applicant seeking a permit to appropriate public waters of the State and/or construct a reservoir to store water for beneficial use.

The area of interest and the permit sought may be of interest to you and to your readers.

Thank you.

Sincerely,

Wesley E. Steiner
Director

By: 
Richard A. Gessner
Chief, Operations Branch

WES/RAG/im

FM00197

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Date: November 23, 1981

Bureau of Land Management
2400 Valley Bank Center
Phoenix, Arizona 85073

(AMENDED)
Re: Application(s) for Permit to appropriate (Public) Water No.(s): 33-87114

Dear Applicant:

Enclosed are:

- 1) Two copies of the Notice of posting of the above application(s);
- 2) An Affidavit of Posting Notice.

The two Notices must be posted within twenty (20) days from the date of issuance appearing at the bottom thereof in two conspicuous-to-the-public places, and MUST remain posted for thirty (30) days from the starting date of posting continuously until the expiration of thirty (30) days. We suggest that one Notice be posted in or near the post office where those who reside in the locality of the proposed appropriation receive mail.

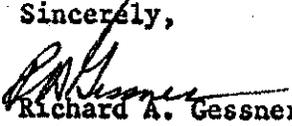
AT THE CONCLUSION OF THE 30-DAY POSTING PERIOD, the Affidavit of Posting Notice, with one copy of the Notice attached, should be completed and notarized. This will then constitute a sworn statement to the fact that the Notices have indeed been posted for the required thirty (30) days in public places.

Per Rules and Regulations R12-5-502 (State Land Department), your prompt attention to the posting of the two Notices and the return of the Affidavit (after 30 days of posting) will facilitate the progression of the application(s) through the various phases required by law before a Permit can be issued.

IMPORTANT: Before posting the Notices, please insert the date of posting on the bottom of each Notice.

KG:im
Enclosures

Sincerely,


Richard A. Gessner
Chief, Operations Branch

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

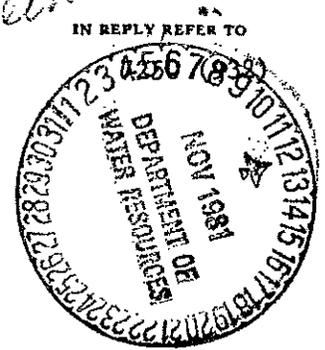
FM00198



Mr. Steiner

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE
2400 VALLEY BANK CENTER
PHOENIX, ARIZONA 85073



November 9, 1981

Mr. Wesley E. Steiner, Director
Department of Water Resources
99 E. Virginia Avenue
Phoenix, Arizona 85004

Attn: Richard A. Gessner, Chief of Operations

Dear Mr. Steiner:

Enclosed is our amended Application for Permit to Appropriate Water, No. 33-87114. Changes have been made in Items 4, 6 and 7. The Bureau of Land Management has not posted the notice for this application issued by your office on September 30, 1981. Please issue an Amended Notice of Application to Appropriate Water for No. 33-87114 to reflect the above referenced changes.

Sincerely,

Harold H. Ramsbacher
Chief, Division of Resources

Enclosure

State of Arizona
DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

October 22, 1981

USDI, Bureau of Land Management
Arizona State Office
2400 Valley Bank Center
Phoenix, Arizona 85073

RE: Application for Permit to Appropriate Water No. 33 87114

Dear Sir:

Relative to the above referenced application which you filed with this department, enclosed is a copy of the Protest submitted by:

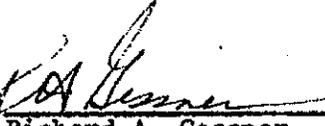
Ralph Esquerra on behalf of Bureau of Indian Affairs

You are advised that you have thirty days from this date within which to make such reply to this Protest as you may desire.

If a reply is made, please furnish it in duplicate.

Sincerely,

W. Don Maughan
Deputy Director

By: 
Richard A. Gessner
Chief, Operations Branch

WDM/RAG/im
Enclosure

cc: Ralph Esquerra,
Project Engineer

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00200



United States Department of the Interior
BUREAU OF INDIAN AFFAIRS
SAN CARLOS IRRIGATION PROJECT

P.O. Box 456
Coolidge, Arizona 85228



IN REPLY REFER TO:

October 16, 1981

Richard A. Gessner
Chief, Records Section
Department of Water Resources
P.O. Box 2600
Phoenix, Arizona 85002

Dear Mr. Gessner:

Reference is made to the notice of application to appropriate water for U.S.D.I., Bureau of Land Management, 2400 Valley Bank Center, Phoenix, AZ 85073, Application Nos: 33-87114, 33-87127, 33-87128, 33-87129, 33-87131, 33-87133, 33-87135 and 33-87136.

If these applications are approved it would deprive the Indian and non-Indian water users of the San Carlos Irrigation Project, Bureau of Indian Affairs, water that has been used on certain of the Indian lands since time immemorial and on the non-Indian lands since as early as 1868. This is evidenced by the United States District Court in the Decree entered June 29, 1935 known as Globe Equity No. 59 (Gila Decree).

Waters of the Gila River and its tributaries have long been over appropriated and in most water years the irrigation water is in extremely short supply and much of the Project lands must remain idle because of the insufficient water supply.

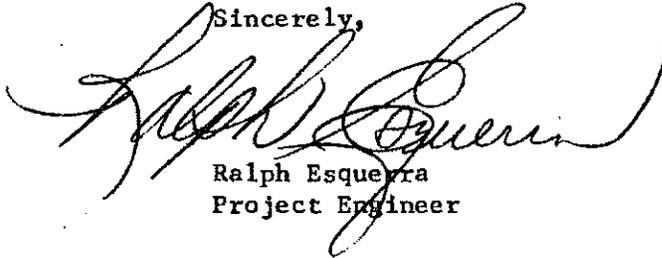
It is believed that the approval of these applications would result in the diminution of water of the Gila River and thus the rights of the San Carlos Irrigation Project water users would be adversely affected.

Waters of the Gila River and its tributaries are delivered directly to Project lands located in Townships 4, 5, 6 and 7 South, and Ranges 4, 5, 6, 7, 8, 9 and 10 East, and to reservation lands lying in Townships 1 and 2 South, Ranges 1 and 2 East. All such waters are delivered to the

FM00201

described lands to the extent of all such water available. All deliveries are for irrigation purposes. The points of diversion are located in the NW $\frac{1}{4}$ of Sec. 8, T4S, R11E (Ashurst Hayden Dam), near the SW Corner of Section 7, T4S, R7E, (Oldberg Dam); in Section 25, T2S, R2E, (Upper Gila Crossing Dam); and in Section 16, T2S, R2E, (Lower Gila Crossing Dam).

Sincerely,

A handwritten signature in cursive script, appearing to read "Ralph Esquerre".

Ralph Esquerre
Project Engineer

cc: U.S.D.I., Bureau of Land Management
2400 Valley Bank Center
Phoenix, AZ 85073

State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE GABBITT, Governor
WESLEY E. STEINER, Director

September 30, 1981

Eastern Arizona Courier
203 Main Street
P. O. Box 667
Safford, Arizona 85546

Dear Editor:

Wesley E. Steiner, Director of the Department of Water Resource in Phoenix, Arizona submits the following material which you may find newsworthy.

Enclosed are one or more copies of the Notice of Posting required to be posted by an applicant seeking Permit to Appropriate Public Water of the State and/or construct a reservoir to store water for beneficial use.

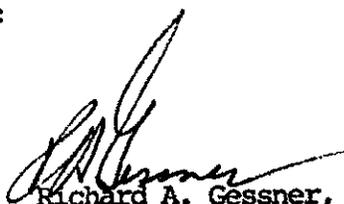
The area of interest and the Permit sought may be of interest to you and to your readers.

Thank you.

Sincerely,

Wesley E. Steiner,
Director

BY:



Richard A. Gessner,
Chief, Operations Branch

WES:RAG/rh

Enclosure

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00203

State of Arizona
DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

September 30, 1981

Bureau of Land Management
2400 Valley Bank Center
Phoenix, Arizona 85073

Re: Applications for Permit to
Appropriate Water Nos. 33-87114
33-87127, 33-87128, 33-87129
33-87131, 33-87133, 33-87135
and 33-87136

Enclosed are:

- 1) two copies of notice of the pendency of the above application;
- 2) an affidavit of posting and continuous posting of notices with copy of notice attached.

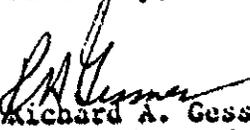
The two notices must be posted within twenty days from the date of issuance appearing at the bottom thereof and remain posted until the expiration of thirty days from date of posting. In no event should the notices be posted in inconspicuous places, and they must remain continuously posted from the date of posting until the expiration of the posting period. We suggest that one notice be posted at or near the post office where those who reside in the locality of the proposed appropriation receive mail.

AT THE CONCLUSION OF THE NOTICE PERIOD, the affidavit of posting with copy of notice attached must be filled out, signed and sworn to before some officer qualified to administer oaths in the State of Arizona and immediately mailed to the Department of Water Resources in Phoenix, Arizona.

Prompt attention to posting the notices and returning the affidavit of posting at the end of period of notice will facilitate the approval of the application.

IMPORTANT: Before posting the enclosed notice, insert the date of posting on the bottom of the Notice.

Sincerely,


Richard A. Gessner,
Chief, Operations Branch

RAG/ rh

Enc.

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00204

ARIZONA DEPARTMENT OF
WATER RESOURCES
99 East Virginia
Suite 100
Phoenix, Arizona 85004

NOTICE OF APPLICATION TO APPROPRIATE WATER

(Per Rules and Regulations R12-5-502)

Application No. 33-87114

Notice is hereby given that on the 1st day of June, 19 81
U.S.D.I., Bureau of Land Management, 2400 Valley Bank Center, Phoenix, AZ 85073 filed
Application No. 33-87114, with the Department of Water Resources of Arizona, for Permit
to Appropriate Water of the State of Arizona.

DESCRIPTION OF PROJECT

Source of water supply is Aravaipa Creek on the San Pedro watershed.

Proposed use and amount applied for 3,620 acre feet per annum for the purpose of Other uses
(Recreation) and 7,240 acre feet per annum for the purpose of Other uses(Wildlife).

Point of diversion within "Water is taken along a line known as Aravaipa Creek described as
follows: Starting in the SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, of Township 6 South, Range 19 East and Ending
in the SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, of Township 6 South, Range 17 East, G&SR&M., in the County of
Graham.

Place of using water As above

Remarks: NOTICE TO APPLICANT AND TO:

City of Tucson, Attn: City Attorney, P. O. Box 27210, Tucson, Arizona 85726
San Carlos Irrigation & Drainage Dist., Attn: Morris M. Soma, P. O. Box 218, Coolidge 85228
San Carlos Irrigation Project, Attn: W. P. Hauff, P. O. Box 456, Coolidge, Arizona 85228
E. G. Salazar, Klondyke Station, Willcox, Arizona 85643
Defenders of Wildlife, 70 W. Cushing Street, Tucson, Arizona 85701

PROTEST

Any person desiring to protest against the granting of such permit shall within 60 days from the date
of posting of this notice file with the Department of Water Resources at Phoenix, a signed statement
in duplicate clearly setting forth the protestant's objections to the approval of the application, which
statement shall contain the following information:

- (1) Statement of the injury which would result to protestant from such appropriation and use.
- (2) The basis of protestant's water right, and date of initiation of the right.
- (3) Protestant's past and present use of water both as to amount used and land irrigated, or use made
of water, if other than irrigation.
- (4) A description of the protestant's land or place of use, and the point of diversion of the water.
- (5) There may also be filed with such statement such maps and data as the protestant may care to
submit in support of his protest.

Issued at Phoenix, Arizona

September 30, 19 81

Date of Posting _____

Arizona Department of
Water Resources

State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

Date: June 23, 1981

JUL 24 1981

Bureau of Land Management
Arizona State Office
2400 Valley National Bank Center
Phoenix, Arizona 85073

7:45 A.M.
PHOENIX, ARIZONA

Re: Application(s) for Permit to Appropriate Water No(s). 33-87114

* Nos. 6&7: Either the legal is incorrect, or the County. If legal is correct, should be Graham County.

Dear Sir:

We are returning the referenced Application(s) for additional information or material as indicated below:

_____ Failure to complete the form(s) properly; specifically, this includes the following paragraphs of the form:

Nos. 6&7 When wildlife drinks along an entire stream: Please show #6 & #7 as follows:
6&7 "Water is taken along a line known as Aravaipa Creek described as follows: (start of creek) $\frac{1}{4}$ - $\frac{1}{4}$, Section, Township and Range; and (end of creek) $\frac{1}{4}$ - $\frac{1}{4}$, Section, Township and Range."

*XXXX Legal description of point of diversion/place of use is either incomplete, incorrect or does not agree with the map you submitted. _____

_____ The amount of water required for each use is not clear, or not stated as to each proposed use as required in paragraph 4 of the form.

_____ Direct source of supply unclear, or not stated.

_____ Ownership of the land not explained under EXPLANATORY (page 2), as required by paragraph 11 of the form.

Upon receipt of the information or clarification as requested above, we will take action to issue a Notice of Posting. In accordance with ARS 45-144, you have sixty (60) days in which to submit the requested clarification or information without loss of priority date of filing. If the application(s) is not returned within 60 days from the date of this letter, a new priority date will be established to coincide with the date it is returned to this Department.

Sincerely,

W. Don Maughan
Deputy Director

By Richard A. Gessner
Richard A. Gessner
Chief, Operations Branch

WDM:RG: ec
Enclosures

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00206

State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Date: June 23, 1981

Bureau of Land Management
Arizona State Office
2400 Valley National Bank Center
Phoenix, Arizona 85073

Re: Application(s) for Permit to Appropriate Water No(s). 33-87114

* Nos. 6&7: Either the legal is incorrect, or the County. If legal is correct, should be Graham County.

Dear Sir:

We are returning the referenced Application(s) for additional information or material as indicated below:

_____ Failure to complete the form(s) properly; specifically, this includes the following paragraphs of the form:
Nos. When wildlife drinks along an entire stream: Please show #6 & #7 as follows:
6&7 "Water is taken along a line known as Aravaipa Creek described as follows:
(start of creek) $\frac{1}{4}$ - $\frac{1}{4}$, Section, Township and Range; and (end of creek) $\frac{1}{4}$ - $\frac{1}{4}$, Section, Township and Range."

*XXXX Legal description of point of diversion/place of use is either incomplete, incorrect or does not agree with the map you submitted. _____

_____ The amount of water required for each use is not clear, or not stated as to each proposed use as required in paragraph 4 of the form.

_____ Direct source of supply unclear, or not stated.

_____ Ownership of the land not explained under EXPLANATORY (page 2), as required by paragraph 11 of the form.

Upon receipt of the information or clarification as requested above, we will take action to issue a Notice of Posting. In accordance with ARS 45-144, you have sixty (60) days in which to submit the requested clarification or information without loss of priority date of filing. If the application(s) is not returned within 60 days from the date of this letter, a new priority date will be established to coincide with the date it is returned to this Department.

Sincerely,

W. Don Maughan
Deputy Director

By Richard A. Gessner
Richard A. Gessner
Chief, Operations Branch

WDM:RG: ec
Enclosures

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,

Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

FM00207

INSTRUCTIONS:

A map of the standard equal to the maps printed by the United States Geological Survey (Quad Sheets) or State Orthophoto base maps shall be submitted with the application.

EXPLANATORY

- 4. Fifteen CFS (10,880 Ac. Ft.) continuous nonconsumptive minimum flow is claimed as follows: Ten CFS, yearlong (7240 Ac.Ft.) is claimed for wildlife & fisheries; and five CFS yearlong (3620 Ac. Ft.) is claimed for ecosystem maintenance and aesthetic recreational values. Several of the fish and wildlife species (round-tailed chub, spike dace, longfin dace loach minnow, gila sucker, big horn sheep, coatimundi mountain lion, and raptors) are on the threatened and endangered species list.
- 6. & 7. Water is used along a line known as Aravaipa Creek described as follows: (start of creek) SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 19, T.6S., R.19E.; and (end of creek) SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 30, T.6S., R.17E. Flow from all tributaries in the Aravaipa Canyon Primitive Area are also claimed.

The undersigned hereby acknowledges that, even though he may have been assisted in the preparation of the above numbered application through the courtesy of employees of the Department of Water Resources all responsibility and risk of loss for the accuracy of the information contained herein, at the time of filing, rests with the applicant.

Harold H. Ramsbacher
Signature of Applicant

Harold H. Ramsbacher
Chief, Division of Resources

PERMIT

Permit No. _____ Application No. _____

STATE OF ARIZONA,)
) ss.
County of Maricopa)

This is to certify that I have examined the foregoing application and do hereby approve the same, and grant to the applicant a permit to appropriate the water and/or to construct the reservoir described therein subject to all prior existing rights as provided by law and to the following limitations and conditions:

The total capacity of the reservoir shall not exceed _____
The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and shall not exceed _____

The priority date under this permit is _____
Actual construction work shall begin on or before _____ and shall be prosecuted with reasonable diligence and be completed on or before _____. Complete application of the water to the proposed use shall be made on or before _____

WITNESS my hand and seal of office this _____ day of _____, 19 _____

SEAL

for the Director

INSTREAM FLOW CHECKLIST

NAME BLM (SAFFORD)

NO. 33-87114

APPLICANT	DATE	INIT.	ADWR - SURFACE WATER	DATE	INIT.	
Preapplication Meeting			Preapplication Meeting			
Submit Application			Receive Application <input checked="" type="checkbox"/> Acpt'd <input type="checkbox"/> Complete <input type="checkbox"/> Rej'd	6/1/81	JLW	
Post Public Notice	12/31/81	JLW	GIS Mapping			
Submit Affidavit of Posting			Prepare Notice of Intent	* 9/28/88	JLW	
Protest (if any) Resolved			Receive Affidavit of Posting	* 2/16/82	JLW	
Collect Data (Min. 1 Year)			Protest Received (71)	10/13/80	JLW	
Submit Study <input type="checkbox"/> Outline <input type="checkbox"/> Draft <input type="checkbox"/> Final			Protest Withdrawn (all)	2/14/89	JLW	
Review/Comment Draft Permit			Draft Permit			
Submit Permit Fees			Sent to Applicant For Review			
Submit Proof & Affidavit			Sent to Hydro For Review			
Submit Minimum of 4 Years Streamflow Data			Permit Fees Requested			
Submit Analysis of Streamflow Data & Documentation			Permit Fees Received	3/14/89	JLW	
Review/Comment Draft CWR			Final Permit Approved & Signed by Asst. Director	3/17/89	JLW	
Submit CWR Fees			Permit Issued	3/17/89	JLW	
Continue Streamflow Measurement			Proof & Affidavit Received	9/22/95	JLW	
ADWR - HYDRO	DATE	INIT.	Draft CWR			
Preapplication Meeting			Sent to Applicant For Review			
Site Visit			Sent to Hydro For Review			
Flow Measurement			CWR Fee Requested	2/1/96	JLW	
Review Study <input type="checkbox"/> Outline <input type="checkbox"/> Draft <input type="checkbox"/> Final			CWR Fee Received	2/13/96	JLW	
Review Data			Final CWR Approved & Signed by Asst. Director	3/14/96	JLW	
Review Protests (if any)			CWR Issued	3/29/96	JLW	
Approve for Permit			AZ GAME & FISH		DATE	INIT.
Review Draft Permit			Permit Approved			
Review Data for CWR						
Approve for CWR						
Review Draft CWR						

* this was the 3rd amended notice to go out
 * the only affidavit of posting was from the 2nd amended notice

1/19/06

REG #	NAME	ADDRESS	STATUS	FILE	SOURCE	LEGAL
1 33-87114.0	BLM PHOENIX	2400 VALLEY BANK CENTER PHOENIX, AZ 85073	ACTIVE - INSTREAM FLOW	Jun 01, 1981	ARAVAIPA CREEK	NE SW 19 6S 19E <i>beginning of reach</i>
2						SW SE 13 6S 17E <i>end of reach</i>

SURFACE WATER RIGHTS - (Louise)

NAME	REG #	STATUS	FILE	PRIORITY	LEGAL	DIV	MAP
1 BLM PHOENIX DIST	33-87114.0	ACTIVE - INSTREAM FLOW	Jun 01, 1981	Jun 01, 1981	SE SW 13 6S 17E	POU	3683
2					SW SE 13 6S 17E	POU	3683
3					SE SW 16 6S 18E	POU	3683
4					SW SW 16 6S 18E	POU	3683
5					SW SE 16 6S 18E	POU	3683
6					NE SE 17 6S 18E	POU	3683
7					SE NE 17 6S 18E	POU	3683
8					NW SW 16 6S 18E	POU	3683
9					NW SE 13 6S 17E	POU	3683
10					SW NE 13 6S 17E	POU	3683
11					NE SE 13 6S 17E	POU	3683
12					NW SW 18 6S 17E	POU	3683
13					SE SW 18 6S 17E	POU	3683
14					SW SW 18 6S 17E	POU	3683
15					NW NW 18 6S 17E	POU	3683
16					SW NW 18 6S 17E	POU	3683
17					SE NW 18 6S 18E	POU	3683
18					SW SE 17 6S 18E	POU	3683
19					SE SW 17 6S 18E	POU	3683
20					SW SW 17 6S 18E	POU	3683
21					NW SW 17 6S 18E	POU	3683
22					NE SE 18 6S 18E	POU	3683
23					NW SE 18 6S 18E	POU	3683
24					SE NW 18 6S 18E	POU	3683
25					SW NE 18 6S 18E	POU	3683
26					NW NE 18 6S 18E	POU	3683
27					SE NE 18 6S 18E	POU	3683
28					NE NE 18 6S 18E	POU	3683
29					NE SE 7 6S 18E	POU	3683
30					SE SE 7 6S 18E	POU	3683
31					SW SW 8 6S 18E	POU	3683
32					SE SW 8 6S 18E	POU	3683
33					NE NW 17 6S 18E	POU	3683
34					NW NE 17 6S 18E	POU	3683
35					NE SE 8 6S 18E	POU	3683
36					NW SE 8 6S 18E	POU	3683
37					SW SE 8 6S 18E	POU	3683
38					NW NE 17 6S 18E	POU	3683
39					SW NE 17 6S 18E	POU	3683
40					NW NE 17 6S 18E	POU	3683

SURFACE WATER RIGHTS - (Louise)

NAME	REG #	STATUS	FILE	PRIORITY	LEGAL	DIV	MAP
	41				NE NE 17 6S 18E	POU	3683
	42				NW NW 16 6S 18E	POU	3683
	43				NE SW 9 6S 18E	POU	3683
	44				NW SW 9 6S 18E	POU	3683
	45				SW SW 9 6S 18E	POU	3683
	46				NW NW 16 6S 18E	POU	3683
	47				NW NE 16 6S 18E	POU	3683
	48				NE NW 16 6S 18E	POU	3683
	49				NW NW 16 6S 18E	POU	3683
	50				SE NW 16 6S 18E	POU	3683
	51				SW NE 16 6S 18E	POU	3683
	52				SE NE 16 6S 18E	POU	3683
	53				SE SW 15 6S 18E	POU	3783
	54				SW SW 15 6S 18E	POU	3783
	55				NE SE 16 6S 18E	POU	3783
	56				SE NE 16 6S 18E	POU	3783
	57				SW NW 15 6S 18E	POU	3783
	58				SE NW 15 6S 18E	POU	3783
	59				NE NW 15 6S 18E	POU	3783
	60				SW NE 15 6S 18E	POU	3783
	61				NW NE 15 6S 18E	POU	3783
	62				NE NE 15 6S 18E	POU	3783
	63				SE NE 15 6S 18E	POU	3783
	64				SW NW 14 6S 18E	POU	3783
	65				NE NW 14 6S 18E	POU	3783
	66				NW NW 14 6S 18E	POU	3783
	67				SE NW 14 6S 18E	POU	3783
	68				NE SW 14 6S 18E	POU	3783
	69				SE SW 14 6S 18E	POU	3783
	70				NE NW 23 6S 18E	POU	3783
	71				NW NE 23 6S 18E	POU	3783
	72				SW SE 14 6S 18E	POU	3783
	73				SE SE 14 6S 18E	POU	3783
	74				NE NW 13 6S 18E	POU	3783
	75				NW NW 13 6S 18E	POU	3783
	76				SE NW 13 6S 18E	POU	3783
	77				SW NW 13 6S 18E	POU	3783
	78				NW SW 13 6S 18E	POU	3783
	79				SW SW 13 6S 18E	POU	3783
	80				SE SE 14 6S 18E	POU	3783
	81				NW SW 25 6S 18E	POU	3783

SURFACE WATER RIGHTS - (Louise)

	NAME	REG #	STATUS	FILE	PRIORITY	LEGAL	DIV	MAP
82						SW NW 25 6S 18E	POU	3783
83						SE NW 25 6S 18E	POU	3783
84						NE NW 25 6S 18E	POU	3783
85						SE SW 24 6S 18E	POU	3783
86						SW SW 24 6S 18E	POU	3783
87						NW SW 24 6S 18E	POU	3783
88						NE SW 24 6S 18E	POU	3783
89						SE NW 24 6S 18E	POU	3783
90						SW NW 24 6S 18E	POU	3783
91						NE NW 24 6S 18E	POU	3783
92						NW NW 24 6S 18E	POU	3783
93						SE SE 25 6S 18E	POU	3783
94						SW SE 25 6S 18E	POU	3783
95						NW SE 25 6S 18E	POU	3783
96						SW NE 25 6S 18E	POU	3783
97						NW NE 25 6S 18E	POU	3783
98						NE NW 25 6S 18E	POU	3783
99						SE SW 24 6S 18E	POU	3783
100						NE SE 13 6S 18E	POU	3783
101						SE SE 13 6S 18E	POU	3783
102						SW SE 13 6S 18E	POU	3783
103						NW NE 24 6S 18E	POU	3783
104						SW NE 24 6S 18E	POU	3783
105						NW SE 24 6S 18E	POU	3783
106						NE SE 24 6S 18E	POU	3783
107						SE NE 24 6S 18E	POU	3783
108						SW NW 19 6S 19E	POU	3783
109						NW SW 19 6S 19E	POU	3783
110						NE SW 19 6S 19E	POU	3783
111						NW SE 19 6S 19E	POU	3783
112						SW SE 19 6S 19E	POU	3783
113						SW SW 29 6S 19E	POU	3783
114						SW SE 30 6S 19E	POU	3783
115	Count:	1					114	

11 SAN PEDRO WATERSHED

City of Tucson, P.O. Box 27210,
Tucson, AZ 85726
San Carlos Irrigation Project,
P.O. Box 250, Coolidge, AZ 85228
San Carlos Irrig. & Drainage Dist.,
P.O. Box 218, Coolidge, AZ 85228

SAN PEDRO

CITY OF TUCSON
SAN CARLOS IRRIGATION & DRAINAGE DIST.
SAN CARLOS PROJECT

304 65250 - E.G. Salazar

~~61122~~ - E.G. Salazar
Klondyke Station
Wilcox, Az. 85843

37265 - Defenders of Wildlife
~~120 W Broadway~~
~~Tucson, Az. 85701~~

38 86588 - Defenders Wildlife
70 W. Cushing St.
Tucson, Az. 85701
30 N. TUCSON BLVD.
TUCSON AZ 85716

Bureau of Land Management
 Safford District Office
 425 E. 4th Street
 Safford, Arizona 85546

STATE OF ARIZONA
 DEPARTMENT OF WATER RESOURCES
 WATER RIGHTS ADMINISTRATION
 99 EAST VIRGINIA
 PHOENIX, ARIZONA 85004

RECEIPT

KIND ENTRY	FILE REFERENCE NO.
33	87114
	THRU

FCA - 3

FUND SOURCE	ACCOUNT NO.			INT. ACCT.	ITEM DESCRIPTION	RATE	\$ AMOUNT
	AGENCY	CHAPTER	DIV.				
					Statutory Permit Fee @ \$50.00 for each for		
					a total of \$50.00 per fee credit account,		
					established pursuant to R12-15-152.		
					3/17/89		

BILL: Bureau of Land Management \$50.00

TOTAL

\$

STATE OF ARIZONA
 DEPARTMENT OF WATER RESOURCES
 WATER RIGHTS ADMINISTRATION
 99 EAST VIRGINIA
 PHOENIX, ARIZONA 85004

Arizona State Water Board
 2000 Valley View Center
 Phoenix, Arizona 85071

RECEIPT - FILE

No. 9328

KIND ENTRY	FILE REFERENCE NO.
33	87114
33	JHRD
33	87151

ACCOUNT NO.		INT. ACCT.	ITEM DESCRIPTION	RATE	\$ AMOUNT
FUND SOURCE	AGENCY CHAPTER	DIV.			
			33 filing fees for Application for Permit	23.00	114.50
			to Appropriate Water		
			Water Rights (SW)		

Cash
 TOTAL \$ 114.50