IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

No. W1,W2,W3 & W4 W1-11-002709

MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for The San Pedro River Watershed

Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

This objection is directed to Watershed

File Report or Zone 2 Well Report No

113 - 12 - DBC - 012 (please insert no.)

or Catalogued Well No.

(please insert no.)

P.O. Box 8

OBJECTOR INFORMATION

Objector's Name: Obiector's Address: Magma Copper Company (1267)

7400 North Oracle Rd

Suite 200

Tucson, Arizona 85704

(602) 575-5600

Hayden, Arizona 85235

ASARCO Incorporated (1263)

(602) 356-7811 Objector's Telephone No.: * The names, addresses and telephone numbers of Objectors' attorneys are on the back of this form.

Objector's Watershed File Report or Zone 2 Well Report No. (if the Objector's claimed water rights are within/he San Pedro River Watershed):

Magma Copper Company: 113-08-XXXX-022, et al. ASARCO Incorporated: 114-01-XXXX-005, et al.

Or Objector's Catalogued Well Number (if the Objector's claimed water rights appear only in Volume 8 of the HSR):

NOT APPLICABLE

Or Objector's Statement of Claimant No. (if the Objector's claimed water rights are located outside the San Pedro River Watershed):

39 - NOT APPLICABLE

STATE OF ARIZONA

VERIFICATION

(must be completed by objector)

COUNTY OF MARICOPA

I hereby make this Objection. I certify that, if required, a copy of the forgoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 11th day of

May , 199 2 , postage prepaid and addressed as follows:

Name

HUGHES, JACK K., ET AL.

and

HCR BOX 750

Address BENSON, AZ 85602

(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your own Watershed File Report, Zone 2 Well Report, Catalogued Well Report; or to information contained in Volume 1 of the Hydrographic Survey Report)

I declare under penalty of perjury that I am a claimant in this proceeding or the duly-authorized representative of a claimant; that I have read the contents of this Objection (both sides and any attachments) and know the contents thereof; and that the information contained in the Objection is true based on my own personal knowledge, except those portions of the Objection which are indicated as being known to me on information and belief and, as to those portions, 1

Signature of Objector's Representative (ASARC SUBSCRIBED AND SWORN to before me this





The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain categories). Please check the category(les) to which you object, and state the reason for the objection on the back of this form.

		1.	I object to the description of Land Ownership
		2.	I object to the description of Applicable Filings and Decrees
		3.	I object to the description of DWR's Analysis of Filings and Decrees
X X		4.	I object to the description of Diversions for the claimed water right(s)
		5.	I object to the description of Uses for the claimed water right(s)
		6 .	I object to the description of Reservoirs used for the claimed water right(s)
	•	7 .	I object to the description of Shared Uses & Diversions for the claimed water right(s)
X X		8.	I object to the PWR (Potential Water Right) Summary of the claimed water right(s)
	:	9.	I object to the description of Quantities of Use for the claimed water right(s)
		10.	I object to the Explanation provided for the claimed water right(s)
⊠x	•	11.	Other Objections (please state volume, page and line number for each objection)

REASON FOR OBJECTION

The reason for my objection is as follows (please number your objections to correspond to the boxes checked above; please attach supporting information and additional pages as necessary):

Category Number: 4, 8 and 11

Magma Copper Company ("Magma") and ASARCO Incorporated ("ASARCO") submit this objection as co-objectors.

Magma and ASARCO object to the inclusion of groundwater in this Adjudication because groundwater is neither appropriable under Arizona law (Uniform Objection Code Nos. 500, 510, 1120 and 1132), nor is it subject to claims based on federal law (Uniform Objection Code Nos. 561, 562, 1120 and 1134). In addition, this objection is intended to preserve these issues until such time as each is resolved by the Arizona Supreme Court. (Uniform Objection Code No. 1130)

While this objection pertains to a specific Watershed File Report ("WFR"), Magma and ASARCO are objecting to each WFR that classifies a well as a "Zone 1 Well" or otherwise employs the "50% - 90 day standard" to create a presumption of a well's diversion of appropriable surface water.

With respect to this particular WFR, Magma and ASARCO presently believe that the subject well(s) is/are taking nonappropriable groundwater not subject to the Gila Adjudication. However, should it be determined that the well(s) is/are taking appropriable surface water, Magma and ASARCO object to such use where such taking is a diversion of surface water without an appropriative right under state law and/or is interfering with the water rights of Magma or ASARCO. (Uniform Objection Code Nos. 600, 610 and 1150)

Magma and ASARCO are also filing this objection to obtain notice and an opportunity to be heard on all issues in the event that claims to the groundwater referenced in claimant's WFR are adjudicated.

Attorneys for Magma:

(Röbert B. Hoffman (004415)

Carlos D. Ronstadt (006468) Jeffrey W. Crockett (012672)

SNELL & WILMER (5 10)

One Arizona Center

Phoenix, Arizona 85004-0001

_(602) 382 _ 6000 PM

Attorneys for ASARCO:

Burton M. Apker (001258) Gerrie Apker Kurtz (005637) APKER, APKER, HAGGARD & KURTZ, P.C. 2111 E. Highland, Suite 230 P.O. Box 10280 Phoenix, Arizona 85064-0280 (602) 381 - 0085

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for The San Pedro River Watershed

Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992. Objections must be filed with the Clerk of the Superior Court in and for Maricopa County, Maricopa County Courthouse Annex, 3345 W. Durango Street, Phoenix, AZ-88009.

This objection is directed to Watershed File Report or Zone 2 Well Report No.

113-12-DBC-012

or Catalogued Well No.

Contested Case File: W111002709

(please insert no.)

(please insert no.)

OBJECTOR INFORMATION

Objector's Name:

Co-Objector's Name:

Co-Objector's Name:

United States of America

Gila River Indian Community

San Carlos Apache Triber Tonto

Apache Tribe; Yavapai-Apache Indian

c/o Cox & Cox

Community; Camp Verde Reservation

c/o Sparks & Siler, P.C.

Objector's Address:

601 Pennsylvania Ave.

Washington, D.C. 20004

Objector's Telephone No.:

(202) 272-4059 / 272-6978

Co-Objector's Address:

Suite 300 Luhrs Tower Phoenix, AZ 85003

Co-Objector's Telephone No.:

(602) 254-7207

Scottsdale, AZ 85251

Co-Objector's Address:

7503 First Street

Co-Objector's Telephone No.:

(602) 949-1998

Objector's Watershed File Report or Zone 2 Well Report No. (if the Objector's claimed water rights are within the San Pedro River Watershed):

111-19-009

Or Objector's Catalogued Well Number (if the Objector's claimed water rights appear only in Volume 8 of the HSR):

Or Objector's Statement of Claimant No. (if the Objector's claimed water rights are located outside the San Pedro River Watershed):

39-11-05478

39-05-41142

39-07-12652

39-07-12676

39-05-50058

39-07-12169

39-U8-60083

39-L8-36340

39-L8-37360

39-U8-63614

39-07-12675

39-05-50059

STATE OF ARIZONA

COUNTY OF MARICOPA

I hereby make this Objection. I certify that, if required, a copy of the foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 18th day of May, 1992, postage prepaid and addressed as follows:

113-12-DBC-012

Name:

HUGHES, JACK K., ET AL.

Address: HCR BOX 750

BENSON AZ 85602

(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your own Watershed File Report, Zone 2 Well Report, Catalogued Well Report, or to information contained in Volume 1 of the Hydrographic Survey Report.)



VERIFICATION(must be completed by objector)

I declare under penalty of perjury that I am a claimant in this proceeding or the duly-authorized representative of a claimant; that I have read the contents of this Objection (both sides and any attachments) and know the contents thereof; and that the information contained in the Objection is true based on my own personal knowledge, except those portions of the Objection which are indicated as being known to me on information and belief and, as to those portions, I m to be true

Signature of Co-Obje sentative

ctor's Representative

7 day of May, 1992.

WFR No.: 113-12-DBC-012 Contested Case File: W111002709

Page 2

STATEMENT OF THE OBJECTION

The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain categories). Please check the category(ies) to which you object, and state the reason for the objection on the back of this form.

I object to the description of Land Ownership. [XX] I object to the description of Applicable Filings and Decrees. 2. [XX] I object to the description of DWR's Analysis of Filings and Decrees. 1 I object to the description of Diversions for the claimed water right(s). 1 5. I object to the description of Uses for the claimed water right(s). [] I object to the description of Reservoirs used for the claimed water right(s). 1 7. I object to the description of Shared Uses & Diversions for the claimed water right(s). [XX] I object to the PWR (Potential Water Right) Summary of the claimed water right(s). [XX] 9. I object to the description of Quantities of Use for the claimed water right(s). I object to the Explanation provided for the claimed water right(s). 10. 1 11. Other Objections (please state volume, page and line number for each objection).

REASON FOR OBJECTION

The reason for my objection is as follows (please number your objections to correspond to the boxes checked above; please attach supporting information and additional pages as necessary):

2. The claimant and/or ADWR fail(s) to associate this claim with a pre-adjudication water filing as required by Arizona statute. (SM 420) (W01)

The available historical record does not support the priority date listed in the pre-filings. (SM 430) (IR001)

The available historical record does not support the priority date listed in the adjudication filings. (SM 478) (IR001)

Adjudication filings associated with this WFR contain inaccurate or incomplete information. (SM 478)

The amount claimed, as described by ADWR, exceeds a reasonable amount required for beneficial use. (SM 478)

The use of water listed under this Watershed File Report is challenged because it interferes with downstream federal reserved rights and is contrary to state and federal law. (SM 560)

One or more of the filings or pre-filings as reported in this WFR is missing a point of diversion legal description. (SM 623) (3900115990000)

One or more of the filings or pre-filings as reported in this WFR is missing a place of use legal description. (SM 720) (3900107970000)

One or more of the POU legal descriptions listed in the WFR is too general. (SM 720) (3900115990000)

There is no quantity amount listed for a pre-filing and/or filing under this WFR. (SM 1000) (3600212980000; 3900107970000)

Applicable or potentially applicable filings indicate a volume of actual or claimed use less than the volume estimated by ADWR (both maximum observed and

WFR No.: 113-12-DBC-012 Contested Case File: W111002709

Page 3

regional use for irrigation PWR's). The claimant is not entitled to more than actually used or claimed. (SM 1000)

- 3. Adjudication filings associated with this WFR contain inaccurate or incomplete information. (SM 478)
- 8. The claimant and/or ADWR fail(s) to associate this claim with a pre-adjudication water filing as required by Arizona statute. (SM 420) (W01)

The use of water listed under this Watershed File Report is challenged because it interferes with downstream federal reserved rights and is contrary to state and federal law. (SM 560)

The legal description for the point of diversion listed by ADWR is not fully supported by the applicable filings listed. (SM 623) (W01)

One or more of the POU legal descriptions listed in the WFR is too general. (SM 720) (3900115990000)

Applicable or potentially applicable filings indicate a volume of actual or claimed use less than the volume estimated by ADWR (both maximum observed and regional use for irrigation PWR's). The claimant is not entitled to more than actually used or claimed. (SM 1000)

9. Applicable or potentially applicable filings indicate a volume of actual or claimed use less than the volume estimated by ADWR (both maximum observed and regional use for irrigation PWR's). The claimant is not entitled to more than actually used or claimed. (SM 1000)

ADWR uses a methodology that over-estimates crop water requirements. (SM 1020)

IN THE SPERIOR COURT OF THE STATE CARIZONA IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

MANDATORY FORM FOR OBJECTIONS TO

No. W111002709

The Hydrographic Survey Report for The San Pedro River Watershed

File Report or Zone 2	led to Watershed		or Ca	or Catalogued Well No.		332	de/	. 35
	Well Report No. 1	11312DBC 012				15	6	
	(1	please insert no.)	(plea	se insert no.)		ည ထဲ	K	7 BE
		OBJECTORII	NFORMATION				The	1200
Objector's Name:	Gila River Indian Community	San Carlos Apact	ne Tribe;Tonto Apache 1	ribe; Yavapai-Apache Inc	lian Community, C	amp Ver	delikes	ervation
	C/O Cox & Cox	C/O Sparks & Si	ler, P.C.				10	
Objector's Address:	Suite 300 Luhrs Tower, P.O. Box 42	45 7503 First Street					Ç	
	Phoenix, AZ 85030	Scottsdale, AZ 8	5251					
Objector's Telephone	: (602) 254-7207	(602) 949-1988						
Objector's Watershed	File Report or Zone 2 Well Report No	(if the Objector's claimed v	vater rights are within t	ne San Pedro River Wate	ershed):			
								
Or Objector's Catalog	ued Well Number (if the Objector's cla	imed water rights appear or	nly in Volume 8 of the H	SR):				
	/		/					

39-U8-63614

STATE OF ARIZONA

VERIFICATION (must be completed by objector)

39-L8-37360

COUNTY OF MARICOPA

39-U8-60083

I hereby make this Objection. I certify that, if required, a copy of the foregoing Objection was served upon the following claimant(s) by mailing true and correct copies thereof on the day of May, 1992, postage prepaid and addressed as follows:

39-L8-36340

Name:

HUGHES, JACK K., ET AL.

Address:

HCR BOX 750

BENSON AZ 85602

(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your **own** Watershed File Report, Zone 2 Well Report, Catalogued Well report; or to information contained in Volume 1 of the Hydrographic Survey Report.)

I declare under perjury that I am a claimant in this proceeding or the duly-authorized representative of a claimant; that I have read the contents of this Objection (both sides and any attachments) and know the contents thereof; and that the information contained in the Objection is true based on my own personal knowledge, except those portions of the Objection which are indicated as being known to me on information and belief and, as to those portions, I believe them to be true.

39-05-50059

Signature of Objector or Objector's Representative

SUBSCRIBED AND SWORN to before me this 6 day of

39-07-12675

Notary Puble for the State of Arizona



OFFICIAL SEAL
JAMES ROBERT RITTERHOUSE
Notary Public - State of Arizona
"MARICOPA COUNTY
My Comm. Expires Jan. 5, 1994

May 1992.

STATEMENT OF THE OBJECTION

				The second secon	1
	wing are the main categories of the typical Watershed File Report (Zone 2 Weies) to which you object, and state the reason for the objection on the back of			ومراج رزر	Please check the
- 1. lob	ject to the description of Land Ownership				
X 2. Io	bject to the description of Applicable Filings and Decrees				
- 3. lob	ject to the description of DWR's Analysis of Filings and Decrees				
X 4. I o	bject to the description of Diversions for the claimed water right(s)				
☆ 5. lob	ject to the description of Uses for the claimed water right(s)	alfal	A. Coga		
- 6. lob	ject to the description of Reservoirs used for the claimed water right(s)	000	U 4.2		٠
- 7. lob	ject to the description of Shared Uses & Diversions for the claimed water rig	pht(s)			
- 8. lob	ject to the PWR (Potential Water Right) Summary of the claimed water righ	ol(s)			
X 9. I ol	oject to the description of Quantities of Use for the claimed water right(s)				
- 10. I o	oject to the Explanation provided for the unclaimed water right(s)				
Xt. 11. Oil	ner Objections (please state volume, page and line number for each objection)				
	REASON FOR	R OBJECTION			
	on for my objection is as follows (please number your objections to correspond l sary. The following objection(s) are based upon information and belief:	to the boxes checked a	above; please attached	supporting information and	l additional pages
CATEGO	RY				
NUMBE					
4	The use of the water claimed depletes water for senior federal and Indian wa	aler righls (1150).			
2	HSR does not show a well registration filing (420).				
9	HSR does not show a claimed water use rate (1000).			`	
2	Claim date from filing(s) and/or pre-filing(s) are inconsistent (478)(430).				
2	Quantities from filing(s) and/or pre-filing(s) are inconsistent (478)(430).				
	See Attachment	:s			
				•	
		·····			

Hughes, Jack K., et al

ATTACHMENT

- Objection No. 5: I object to the description of Uses for the claimed water right under Filing No. 39-0010797.
- Reason No. 5: The HSR (Vol. 5, Table 2, Page 105) shows that Filing No. 39-0010797 lacks any use location whatsoever for the claimed irrigation, stock use, and recreation/fish/wildlife purpose. No use location = no claim. (478)

Hughes, Jack K., et al

ATTACHMENT

Objection 9 = Quantities of Use

Reason 9 = The HSR (Vol. 5, Table 2, Page 105) shows that Filing No. 39-0010797 claims no quantity of water for any of the claimed irrigation, stock, and recreation/fish/wildlife uses. No quantity = no right. (478)

Hughes, Jack K., et al

ATTACHMENT

Objection 11. Other

Reason 11 = The HSR (Vol. 5, Page 105) shows Filing No. 36-0021297 for irrigation with 400 AFA and an 1870 claim date and Well No. 1 identified as the diversion point.

That any farmer pumped irrigation water along the San Pedro River in 1870 cannot be substantiated from the historical record. Claimant needs to clarify when the first irrigation well and lifting device actually were installed. (900)

Hughes, Jack K., et al.

ATTACHMENT

Objection 4 description of Diversions

Reason 4 = The HSR (Vol. 5, Table 2, Page 105) does not clarify the relationship between Filing No. 39-0012585 and Filing No. 36-0021297, each for 400 AFA for irrigation furnished by the same Well No. 1. The HSR does not clarify the relationship between the two Filing Numbers claiming 400 AFA pumped from the same well and Filing No. 39-0011599 for 200 AFA for irrigation with a 1942 claim date furnished by the same well. (1010)

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

No. W1, W2, W3 & W4 Contested Case No. W1-11-002709

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This objection is directed to Watershed File Report or Zone 2 Well Report No. 113-12-DBC - (please insert		or Catalogued Well No.
OBJECTO	R INFORMATION	LITE STATES
Objector's Address: Post Photo	t River Project t Office Box 52025 enix, Arizona 8507 2) 236-2210 t No. (If the Objector's claim	72-2025 N
Or Objector's Catalogued Well Number (if the Objector'	le claimed vator nights arress	a antiu in Valuma O of the year
Or Objector's Statement of Claimant No. (if the Object 39-07 01040, 0104) 39-05 50053, 50054 39-L8 35212, 3521	<u>1, 01206, 01207, 0</u> 4, 50055	<u></u>
I hereby make this Objection. I certify that, if required, copy of the foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 14th day of May, 1992, postage prepaid and addressed as follows: Name: HUGHES, JACK K., ET AL. Address: HCR BOX 750	proceeding or the duly-aut that I have read the conte sides and any attachments) and that the information c based on by own personal k	perjury that I am a claimant in this horized representative of a claimant; nts of this Objection (both and know the contents thereof; ontained in the Objection is true nowledge, except those portions indicated as being known to me and, as to those portions.
BENSON, AZ 85602	Signature of Objector or O	. KOKTA- bjector's Representative
(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your own Watershed File Report, Zone 2 Well Report, Catalogued Well Report, or to information contained in Volume 1 of the Hydrographic Survey Report.)	SUBSCRIBED AND SWORN to be May, 1992. Notary Public for the S Residing at Maricopa Co	JAPOLLAN yestelost/Arizona

MARICOPA COUNTY
My Comm. Expires March 24, 1995

Watershed File Report: 113-12-DBC -012 Vol-Tab-Pg 5-2-105 HUGHES, JACK K., ET AL.

PAGE: 2

STATEMENT OF THE OBJECTION

The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain categories). Please check the category(ies) to which you object, and state the reason for the objection on the back of this form.

[]	1.	I object to the description of LAND OWNERSHIP
[]	2.	I object to the description of APPLICABLE FILINGS AND DECREES
[]	3.	I object to the description of DWR's ANALYSIS OF FILINGS AND DECREES
[]	4.	I object to the description of the DIVERSIONS for the claimed water right(s)
[]	5.	I object to the description of the USES for the claimed water right(s)
[]	6.	I object to the description of RESERVOIRS used for the claimed water right(s)
[]	7.	I object to the description of SHARED USES & DIVERSIONS for the claimed water right(s)
[X]	8.	I object to the PWR (POTENTIAL WATER RIGHT) SUMMARY of the claimed water right(s)
[X]	9.	I object to the description of the QUANTITIES OF USE for the claimed water right(s)
[]	10.	I object to the EXPLANATION provided for the claimed water right(s)
[]	11.	Other Objections (please state volume number, page number and line number for each objection)

REASON FOR OBJECTION

The reason for my objection is as follows (please number your objections to correspond to the boxes checked above; please attach supporting information and additional pages as necessary):

CATEGORY NUMBER	
	SEE ATTACHMENT 1
	In this attachment the uniform code designated by the
	Special Master in accordance with Case Management
 	Order No. 1 is shown in parenthesis following each
	objection statement.
	

Watershed File Report: 113-12-DBC -012 Vol-Tab-Pg 5-2-105 HUGHES, JACK K., ET AL.

PAGE: 1

ATTACHMENT 1

WFR CATEGORY 8 - PWR SUMMARY

The Salt River Project objects to the apparent date of first use assigned to this Potential Water Right (PWR). Previous filings, in this case, filings made pursuant to the Water Rights Registration Act (WRRA), are the evidentiary foundation for the priority date associated with a water right. The Watershed File Report fails to set forth sufficient historical evidence to refute the date of priority claimed in the WRRA filing matched to this PWR. In the absence of such evidence, the apparent date of first use for this PWR should be the date claimed in the WRRA filing (0920). This objection applies to: IR002.

* * * *

The Salt River Project objects to the weight placed upon aerial photography in determining the apparent date of first use for this Potential Water Right (PWR). Where DWR concludes that no use exists on a parcel as of a given photo date, it does not follow that a claimant either had no water right to start with or abandoned that right by nonuse. Scattered photos reflecting occasional periods of nonuse over a fifty-year time span should not be interpreted by DWR to refute the priority date or dates evidenced by a claimant's previous filings (0910). This objection applies to: IR002.

WFR CATEGORY 9 - QUANTITIES OF USE

The Salt River Project objects to the quantities of use assigned to this Potential Water Right (PWR). The maximum observed and regional methods used by DWR for determining quantities of use for certain agricultural irrigation PWRs are inconsistent with the Arizona doctrine of prior appropriation; these methods are also technically inaccurate. The maximum potential method used by DWR for determining quantities of use is consistent with Arizona law; however, several technical corrections are necessary. For an additional discussion of the problems associated with DWR's methods of quantification for this type of PWR, see the Salt River Project's Volume 1 objections to these methods, a copy of which is attached to this objection and incorporated herein by reference (1020). This objection applies to: IR001 and IR002.

* * * *

Watershed File Report: 113-12-DBC -012 Vol-Tab-Pg 5-2-105 HUGHES, JACK K., ET AL.

PAGE: 2

WFR CATEGORY 9 - QUANTITIES OF USE (continued)

The Salt River Project objects to the failure of DWR to calculate a diversion rate for this Potential Water Right (PWR). All PWRs assigned a point or points of diversion should be assigned a separate diversion rate for each point of diversion. Diversion rates should be calculated at the point of diversion and should include conveyance losses (1010). This objection applies to: IR001 and IR002.

EXCERPT FROM SALT RIVER PROJECT OBJECTIONS TO VOLUME 1 OF THE SAN PEDRO RIVER HSR

IRRIGATION QUANTITY ESTIMATES

(page numbers refer to Volume 1)

INTRODUCTION

The Salt River Project objects to DWR's estimation methods and results for irrigation water quantities for the following reasons:

First, the Salt River Project objects to DWR's estimation of water duty under both the "maximum observed" and "regional" methods. In the absence of decreed rights, which must be accepted by the court in the absence of abandonment, Arizona law requires that the extent of an appropriative right be measured according to the quantity of water that the appropriator diverted for beneficial use since the time of the appropriation. A.R.S. § 45-141(B) ("Beneficial use shall be the basis, measure and limit to the use of water"). Neither the "maximum observed" or "regional" quantification methods employed by DWR properly estimate maximum actual historical beneficial use as required by law.

The Salt River Project supports DWR's estimation of water duty using the "maximum potential" method since, in the absence of sufficient historical records, this method properly estimates maximum actual historical beneficial use.

Second, DWR's method to compute maximum observed water duty does not accurately estimate maximum actual historical beneficial use since it incorporates inaccurate crop irrigation requirements, deficit irrigation, five years or less of crop history, or overly high efficiency estimates.

Third, although DWR has developed new terminology in reporting regional water duties, DWR still uses the Arizona Groundwater Code method of "areas of similar farming conditions" (ASFC), now termed "regional farming conditions" (RFC). The RFC method assigns a weighted average consumptive use requirement to the water duty equation based upon the types of crops recently grown by appropriators in a designated area. Historical information or records evincing an individual claimant's actual cropping patterns and the quantities of water actually used to cultivate such crops since the time of appropriation are not considered. In fact, the Court noted that "[average efficient use] is not directly related to what is the property's water right[s] . . . " (Entitlement Order at 6). the prior appropriation doctrine, an appropriator who has grown alfalfa on his property historically is entitled to a water duty that will support alfalfa, regardless of the crops that he or his neighbors are currently growing. Under DWR's "averaging" approach, an appropriator in this situation would be assigned an apparent entitlement inadequate to meet crop needs.

Additionally, under the RFC concept, the efficiency of various irrigation methods is averaged among appropriators, thus further exacerbating the inadequate water duty for the appropriator who does not have a system with above-average efficiency.

Fourth, there are a number of technical errors in DWR's calculation of crop consumptive use including the use of a five year crop history, adjusted weather data, relative humidity, growing season, effective precipitation, crop coefficients, alfalfa stand establishment, deficit irrigation, and efficiency estimates.

Five Year Crop History pp. 146-151, C-18, C-19, C-68 through C-78

The Salt River Project objects to DWR's use of its five year investigation period for computing acreages irrigated for maximum observed quantification and for computing crop irrigation water requirements for both maximum observed and regional quantifications. Indeed, it appears that DWR has relied heavily on a single year (1990) of crop survey data. The information developed from a single year, or five year period, cannot be used to properly estimate actual historical beneficial use since low consumptive use crops or no crop may be present during the period. Thus, historical cropping practices or completion of a crop rotation are not reflected.

Adjusted Weather Data pp. C-6 through C-19

The Salt River Project objects to DWR's adjustment of weather station temperatures from recorded values and relative humidities from estimated values. The temperature and relative humidity adjustment procedure is intended for prediction of crop water requirements for large, new irrigation developments where the current observations are from a nearby non-irrigated area. Because of the "clothesline" configuration of San Pedro irrigated areas in relation to the extremely arid surrounding environment, it is extremely doubtful there is any moderating effect due to surrounding irrigated land or to the San Pedro River.

Relative Humidity

pp. C-9, C-17, C-25, C-29, C-34, C-92

The Salt River Project objects to DWR's failure to specify whether it used minimum relative humidity as specified in Food and Agricultural Organization (FAO) Paper 24. Minimum relative humidity is not reported by Sellers and Hill. Furthermore, their 6 p.m. (1800 hours) data must be adjusted downward to reflect lower humidity in midafternoon. The proper publication date for Arizona Climate, 1931-1972, by Sellers and Hill, is 1974.

Growing Season pp. C-20, C-24

The Salt River Project objects to DWR's use of field observations during one or just a few years to estimate the length of growing season for perennial crops. A few field observations of irrigation dates do not define the water use period because water use occurs both before and after irrigation and because growing seasons vary from year to year. Growing seasons can best be determined for perennial crops by a relationship between plant growth and mean temperature or mean date of low temperatures over an extended period of record.

Effective Precipitation pp. C-38, C-40 through C-49

The Salt River Project objects to DWR's method of estimating nongrowing season effective precipitation. The procedure used neglects runoff, uses soil constant values that are highly variable and not well quantified, and is unclear about assumptions of initial soil moisture conditions for each month. Published methods can be used to estimate non-growing season effective precipitation for the winter months, the relevant period for most crops. Furthermore, the Salt River Project objects to DWR's use of a 50 percent probability of precipitation, which results in an inadequate supply in one-half of the years. A 50 percent probability indicates that average effective precipitation is subtracted from crop consumptive use when DWR calculates the irrigation This means that in years of below-average precipitation, requirement. irrigation users would be unable to replace the lack of precipitation with additional irrigation water. The amount of precipitation that is available 80 percent of the time for field crops and 90 percent of the time for orchards and vegetables is appropriate.

Crop Coefficients p. C-33

The Salt River Project objects to DWR's use of 0.8 as the kc for Winter Pasture. Winter Pasture is a cool-season grass mixture that has a higher crop coefficient than a warm-season grass. SRP also objects to DWR's use of the mean of kc1 and kc3 as a value for kc2, instead of interpolation. Both FAO-24 and University of California Leaflet 21427 specify interpolation.

Alfalfa Stand Establishment p. C-37

The Salt River Project objects to DWR's failure to include water for alfalfa stand establishment as an "Other Need."

Deficit Irrigation

pp. C-4, C-5, C-54 through C-68

The Salt River Project objects to DWR's use of deficit irrigation values for the maximum observed quantification for water right entitlements. As noted above, maximum actual historical beneficial use is the proper measure of a water right entitlement, not current practice.

Efficiency Estimates

pp. 138-140, C-51 through C-54

The Salt River Project objects to DWR's omission of the effect of a rotation delivery system on On-Farm Irrigation Efficiency. A rotation delivery system reduces On-Farm Irrigation Efficiency below that which can be achieved if irrigation water is available on demand.

The Salt River Project also objects to DWR's use of average estimated values of irrigation efficiency for regional quantification. The use of average efficiencies understates entitlements for one-half of all irrigated acres on this basis alone.

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARIOUPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

No. W1,W2,W3 & W4

MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for The San Pedro River Watershed

No. W1-11-2709

Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

This objection is directed to Watershed File Report or Zone 2 Well Report No. 113 - 12 - DBC	; - <u>012</u>	or Catalogued Well No.
(please insert no	.)	(please insert no.)
OBJECTO	R INFORMATION	- -
Objector's Name: CITY OF BENSON	•	P E NE
Objector's Address: P.O. BOX 2223, BENSON, AZ 85602		မ္ 🗘
Objector's Telephone No.: <u>(602) 586 - 2245</u>		<u> </u>
Objector's Watershed File Report or Zone 2 Well Report No. (if the Ob	pjector's claimed water rights ar	re within the San Pedro River Watershed):
_112 - 17 · XX	× - 039	·
Or Objector's Catalogued Well Number (if the Objector's claimed wat	er rights appear only in Volume	8 of the HSR):
		- ,
Or Objector's Statement of Claimant No. (if Objector's claimed water	rights are located outside the S	San Padro River Wetershed)
	ngmo are recated datated the c	an i odio rator tvatoronody.
STATE OFARIZONA		
COUTY OF Pinal	ERIFICATION (must be co	ompleted by objector)
I hereby make this Objection. I certify that, if required, a copy of the		rjury that I am a claimant in this proceeding
foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the day of		entative of a claimant; that I have read the oth sides and any attachments) and know the
May, 199_2 postage prepaid and addressed as follows:	contents thereof; and that the	e information contained in the Objection is nal knowledge, except those portions of the
Name: J. Hughes	Objection which are indicate	d as being known to me on information and
Address: HCR Box 750 Benson, AZ 85602	bélief and, as to those portion	ins, I believe them to be true.
Benson, Az 05002	June	Ja O Nour
(The above section must be completed if you object to another	Signature of Objector or Objec	ector's Representative
claimant's Watershed File Report, Zone 2 Well Report, or Catalogue Well Report. It does not need to be completed if you file an	d SUBSCRIBED AND SWORN	to hatara ma shight
objection to your own Watershed File Report, Zone 2 Well Report,	<u>May</u> , 199 <u>2</u> .	day of.
Catalogued Well Report; or to information contained in Volume 1 of the Hydrographic Survey Report.)	Soi Ma	Auskin
	Notary Public for the State of	Arizona
	Residing atCasa Gr	cande
	My commission expires	My Commission Expires Aug. 5, 1994

STATEMENT OF THE OBJECTION

The following are the main categories of the pical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain

categories). Please check the category(ies) to which you object, and state the reason for the objection on the back of this form.
[] 1. l obj	ject to the description of Land Ownership
[x] 2. l ob	ject to the description of Applicable Filings and Decrees
[x] 3. l obj	ject to the description of DWR's Analysis of Filings and Decrees
[x] 4. l obj	ject to the description of Diversions for the claimed water right(s)
	ject to the description of Uses for the claimed water right(s)
	ect to the description of Reservoirs used for the claimed water right(s)
	ect to the description of Shared Uses & Diversions for the claimed water right(s)
	ject to the PWR (Potential Water Right) Summary of the claimed water right(s)
	ject to the description of Quantities of Use for the claimed water right(s)
	ject to the Explanation provided for the claimed water right(s)
[] 11. Out	er Objections (please state volume, page and line number for each objection)
	REASON FOR OBJECTION
The reason	o for my objection is as follows (please number your objections to correspond to the boxes checked above; please office a correspond to
momation	
CATEGORY NUMBER	Y
2	SEE ATTACHMENT
3	SEE ATTACHMENT
4	SEE ATTACHMENT
5	SEE ATTACHMENT
8	SEE ATTACHMENT
9	SEE ATTACHMENT
	
<u>.</u>	

ATTACHMENT

Gategory #2. The City of Benson objects to the description of Applicable Filings and Decrees on the following grounds:

1. The city incorporates by reference its objections to page 543 of Volume 1 (Contested Case Number W1-11-00002), as if fully set forth herein.

Category 3. The City of Benson objects to the description of **DWR's Analysis of Filings and Decrees** for the following reasons:

1. The city incorporates by reference its objections to page 543 of Volume 1 (Contested Case Number W1-11-00002), as if fully set forth herein.

Category 4. The City of Benson objects to the description of **Diversions for the claimed water right(s)** for the following reasons:

1. The city incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case Number W1-11-00002), as if fully set forth herein.

Category 5. The City of Benson objects to the description of Uses for the claimed water right(s) for the following reasons:

1. The city incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case Number W1-11-00002), as if fully set forth herein.

Category 8. The City of Benson objects to the description of PWR (Potential Water Right) Summary for the claimed water right(s) for the following reasons:

1. The city incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case Number W1-11-00002), as if fully set forth herein.

Category 9. The City of Benson objects to the description of **Quantities of Use** for the claimed water right(s) for the following reasons:

1. The city incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case Number W1-11-00002), as if fully set forth herein.

IN THE SUBERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

No. W1,W2,W3 & W4

MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for The San Pedro River Watershed

No. W1-11- 2709

Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

	· · · · · · · · · · · · · · · · · · ·	
This objection is directed to Watershed	20 24	or Catalogued Well No.
File Report or Zone 2 Well Report No. 113 - 12 - DE (please insert r		(please insert no.)
OBJECT	OR INFORMATION	H 30
Objector's Name: CITY OF SIERRA VISTA		FILED PH'3:
Objector's Address: 2400 E. TACOMA ST., SIERRA VISTA, A	Z 85635	PH
Objector's Telephone No.: <u>(602) 458 - 3315</u>		PH 3: 0
Objector's Watershed File Report or Zone 2 Well Report No. (if the O	Objector's claimed water rights are v	
111 - 20 - > 111 - 20 - >	XXX - 070	
Or Objector's Catalogued Well Number (if the Objector's claimed wa	ater rights appear only in Volume 8	of the HSR):
Or Objector's Statement of Claimant No. (if Objector's claimed water	or rights are located outside the San	Pedro River Watershed):
39		
STATE OFARIZONA		
COUTY OF Pinal	VERIFICATION (must be com	pleted by objector)
I hereby make this Objection. I certify that, if required, a copy of the foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 18 day of 199 postage prepaid and addressed as follows:	or the duly-authorized represent contents of this Objection (both contents thereof; and that the in	ry that I am a claimant in this proceeding ative of a claimant; that I have read the sides and any attachments) and know the formation contained in the Objection is knowledge, except those portions of the
Name: J. Hughes Address: HCR Box 750		s being known to me on information and
Benson, AZ 85602	June M	Dair
(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogo Well Report. It does not need to be completed if you file an objection to your own Watershed File Report, Zone 2 Well Report,	Jennele Morris O'Hair eti SUBSCRIBED AND SWORN to t	
Catalogued Well Report; or to information contained in Volume 1 of the Hydrographic Survey Report.)	, — — — — — — — — — — — — — — — — — — —	Clusten
	Notary Public for the State of _	Arizona
	Residing atCasa Gr	ande
	My commission expires	My Commission Expires Aug. 5, 1994

STATEMENT OF THE OBJECTION

The following categories).	g are the main categories of the pical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain Please check the category(les) to which you object, and state the reason for the objection on the back of this form.				
	t to the description of Land Ownership				
[x] 2. l object	[x] 2. I object to the description of Applicable Filings and Decrees				
[x] 3. I object to the description of DWR's Analysis of Filings and Decrees					
[x] 4. I object	t to the description of Diversions for the claimed water right(s)				
[x] 5. I objec	t to the description of Uses for the claimed water right(s)				
[] 6. l object	t to the description of Reservoirs used for the claimed water right(s)				
	to the description of Shared Uses & Diversions for the claimed water right(s)				
	t to the PWR (Potential Water Flight) Summary of the claimed water right(s)				
	t to the description of Quantities of Use for the claimed water right(s)				
	t to the Explanation provided for the claimed water right(s)				
[] Tr. Other (Objections (please state volume, page and line number for each objection)				
	REASON FOR OBJECTION				
The reason for information ar	or my objection is as follows (please number your objections to correspond to the boxes checked above; please attach supporting additional pages as necessary):				
CATEGORY NUMBER					
_2	SEE ATTACHMENT				
_3	SEE ATTACHMENT				
4	SEE ATTACHMENT				
_5	SEE ATTACHMENT				
8	SEE ATTACHMENT				
9	SEE ATTACHMENT				
					

ATTACHMENT

to City of Sierra Vista Objection to WFR# 113-12-DBC-012

<u>Category #2.</u> The City of Sierra Vista objects to the description of **Applicable Filings and Decrees** on the following grounds:

1. The City incorporates by reference its objections to page 543 of Volume 1 (Contested Case No. W1-11-00002), as if fully set forth herein.

<u>Category #3.</u> The City of Sierra Vista objects to the description of <u>DWR's Analysis of Filings and Decrees</u> on the following grounds:

1. The City incorporates by reference its objections to page 543 of Volume 1 (Contested Case No. W1-11-00002), as if fully set forth herein.

<u>Category #4.</u> The City of Sierra Vista objects to the description of **Diversions** for the claimed water right(s) on the following grounds:

1. The City incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case No. W1-11-00002), as if fully set forth herein.

<u>Category #5.</u> The City of Sierra Vista objects to the description of **Uses** for the claimed water right(s) on the following grounds:

1. The City incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case No. W1-11-00002), as if fully set forth herein.

<u>Category #8.</u> The City of Sierra Vista objects to the description of **PWR** (**Potential Water Right**) **Summary** for the claimed water right(s) on the following grounds:

1. The City incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case No. W1-11-00002), as if fully set forth herein.

<u>Category #9.</u> The City of Sierra Vista objects to the description of <u>Quantities</u> of Use for the claimed water right(s) on the following grounds:

1. The City incorporates by reference its objections to pages 439-446 of Volume 1 (Contested Case No. W1-11-00002), as if fully set forth herein. 135