

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: ~~95-8687~~ 95-8774

Exam Date: 10/26/2007

1. Current Owner: AVONDALE IRRIGATION DIST
PO BOX 81
HAYDEN LAKE ID 83835
(208)772-5657

2. Accompanied by: Chad Coy
Phone No: (208) 772.5657, (208) 704.5726
Address: Same As Above
Relationship to Permit Holder: Manager

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. ~~Other~~ water rights with the same place of use: 95-7558, 95-8144, 95-8321, 95-8909
95-465, 95-465A, 95-465B, 95-8774, 95-8867,
2. ~~Other~~ water rights with the same point of diversion: 95-~~8867~~, 95-8867, 95-8909, 95-7558
95-8144, 95-8321

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4SW1/4

Sec. 24, Twp 51N, Rge 04W, B.M.

KOOTENAI County

Method of Determination: USGS 7.5' Quadrangles 'Coeur d'Alene,' 'Hayden,'
Garmin GPS Receiver

2.

PLACE OF USE: WITHIN SERVICE AREA OF AVONDALE AIRRIGATION DISTRICT

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
Permit No:	95-8687																		Page 3

Method of Determination:

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

95-8774

4.

Well or DiversionPump Serial No. or Discharge

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Size</u>
Finucane		75			
miles #1	Westinghouse	350	2S-77	Peerless	76F66124 (Motor) F2Ø954
miles #2	U.S.E.M.	200	AA-71	Peerless	
miles #3	Westinghouse	350	1F-77	Peerless	USW 1
Airport #1	GE	200			5K44DP (Partly Visible)
Airport #2	U.S.E.M.	250			72SB/POIN 322DRØ67R/1

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Equipment						
Watch	Wrist	Remington	NA	NA	NA	NA
Flowmeters	(SEE BELOW)					

2. Measurements:

Water	Right	No.	95-	Finucane Well		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	75	406.4626	0.819	270	59
Q =	1.332	CFS	=	597.843 GPM		

~~95-8867~~
Flowmeter reading 500 GPM = 1.1 CFS

Water	Right	No.	95-	Miles AVE Well 1		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	350	601.2925	.85	370	100
Q =	4.361	CFS	=	1957.353 GPM		

Flowmeter 913958.0
913957.0
 $1.0 \times 1000 = 1000 \text{ Gallons/min} = 1000 \text{ GPM} = 2.22 \text{ CFS}$

Water	Right	No.	95-	Miles AVE Well 2		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	200	571.2925	.85	340	100
Q =	2.623	CFS	=	177.284 GPM		

Flowmeter 913959.0
913958.0
 $1.0 \times 1000 = 1000 \text{ Gallons/min} = 1000 \text{ GPM} = 2.22 \text{ CFS}$

Water	Right	No.	95-	Miles AVE Well 3		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	350		.85	340	100
Q =	4.590	CFS	=	2060.135 GPM		

Flowmeter 913960.0
913959.0
 $1.0 \times 1000 \text{ Gallons/min} = 1000 \text{ GPM} = 2.22 \text{ CFS}$

95-8774

Water	Right	No.	95-	Airport Well 1	95-8774	
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	200	575.292517	.9	344	100
Q =	2.758	CFS	=	1237.876	GPM	

Flowmeter showing 1250-1275 GPM in real time

$$1275 \text{ GPM} = 2.84 \text{ CFS}$$

Water	Right	No.	95-	Airport Well 2	95-8909	
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	250	581.292517	0.9	350	100
Q =	3.412	CFS	=	1531.412	GPM	

Acuwell International Flowmeter 227,387,000
227,384,000

$$3,000 \div 2 \text{ MIN} = 1500 \text{ GPM}$$

$$1500 \text{ GPM} = 3.34 \text{ CFS}$$

E. FLOW CALCULATIONS

Measured Method:

(See Above)

Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$(3.0 \text{ CFS}) \times (365 \text{ days}) \times (1.9835) = 2172.0 \text{ AF}$$

MUNICIPAL

95-8774

G. NARRATIVE/REMARKS/COMMENTS

Well logs are with W.R 95-8867 Field Exam. Flow calculations for POD well in NWSWSW, S.24, T51N, R04W indicate 500 GPM. GPS Coordinates indicate this well is located just inside the SW SW T51NR04W instead of the NWSW T51NR04W indicated on Permit 95-8867.

Avondale Irrigation District built a pumping station on Hayden Lake to withdraw water from the Lake. It is no longer in use and has not been operated for this exam and is covered by separate Water Rights.

District facilities include a 50,000 Gallon reservoir located on a hill immediately West of the Hayden Lake pumping station and a main distribution line which that runs West along Miles Avenue, past the three District wells at the Miles Avenue site, to the Coeur d Alene Airport (Pappy Boyington Field). Two District operated wells are located at the Airport on either side of a square concrete reservoir that was formerly operated by Kootenai County. Lines connect to the Finucane well (operates nearly continuously) and to a large new 675,000 Gallon reservoir in the Whispering Pines area.

Amendment(s) are to add all District wells as PODs (6 wells total) and correct well locations. The District has 21.12 CFS of groundwater water right diversion capacity. The District will have licensed simultaneous diversion capacity of 13.94 CFS upon completion of amendments at licensing.

The maximum diversion capacity for water rights 95-8687, 95-8774, and 95-8909 at licensing was calculated using (maximum diversion rate CFS) x (365 days) x (1.9835). Water Right 95-8867 began as a municipal only permit.

The combined use condition for 95-8687, 95-8774, 95-8867 and 95-8909 was determined by using the sum of the measured CFS for each right plus the CFS from previously licensed rights 95-7558, 95-8321, and 95-8144. The total measured CFS from these rights is 13.94 CFS. The combined use maximum diversion volume was determined by (13.94 CFS) x (365 days) x (1.9835) = 10092.2 AF

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

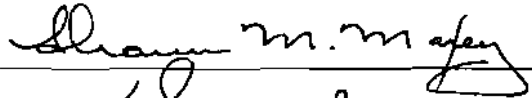
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	1/01 to 12/31	3.0 ~~4.340~~ CFS	2172.0
		<u>Totals:</u> 3.0 ~~4.340~~ CFS	2172.0

2. Recommended Amendments

☒ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None Amend to Municipal
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

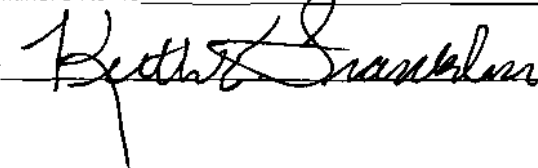
Field Examiner's Name



Date

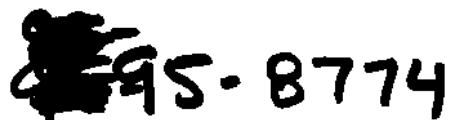
3/3/09

Reviewer



Date

3/4/09





United States Department of the Interior

BUREAU OF RECLAMATION

Washington, D.C. 20240

IN REPLY REFER TO:

D-5300

LND-9.00

FEB 3 2005

Mr. Bob Chandler
Manager
Avondale Irrigation District
P. O. Box 81
Hayden Lake, Idaho 83835

Subject: Exemption from the Ownership and Full-Cost Pricing Provisions of Federal Reclamation Law

Dear Mr. Chandler:

Section 213 of the Reclamation Reform Act of 1982 (RRA) and section 426.16 of the Acreage Limitation Rules and Regulations provide that land in a district is exempt from the ownership and full-cost pricing provisions of Federal reclamation law when a district has fully repaid its construction cost obligation in accordance with the terms of its repayment contract(s) with the Bureau of Reclamation.

Reclamation's financial records show that Avondale Irrigation District (District) has made the final payments on its March 26, 1962, repayment contract (Contract No. 14-06-100-2393) and its July 14, 1954, repayment contracts (Contract No. 14-06-100-517 and Contract No. 14-06-100-518).

This letter serves as official notification that land included in the District is exempt from the ownership and full-cost pricing provisions of Federal reclamation law. The exemption remains in effect until the requirements of Federal reclamation law, including section 203(a) of the RRA, dictate otherwise.

Please note that as a result of being exempt from the ownership and full-cost pricing provisions of Federal reclamation law, the RRA forms submittal requirements no longer apply to the District. However, other RRA provisions (for example, the water conservation provisions) and relevant contract provisions remain in effect. Also be aware that this exemption does not relieve the District of any existing or future obligations to the United States, including the obligation to pay any applicable operation and maintenance costs.

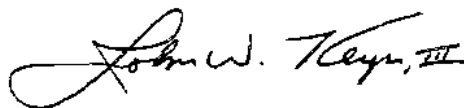
The Pacific Northwest Regional Office has advised me that all follow-up actions have been completed with respect to the final water district review conducted on July 22, 2003. Therefore, upon receipt of this letter, the District may discard all the landholder RRA forms in its files by burning, shredding, or pulping them in accordance with the Privacy Act disposal requirements.

Congratulations to the District for having completed repayment of its construction cost obligation to the United States, and having achieved exemption from the ownership and full-cost pricing provisions of Federal reclamation law.

95-8774

If you have any questions regarding this matter, please contact Wanda Shearer at the Pacific Northwest Regional Office in Boise, Idaho, at 208-378-5342.

Sincerely,

A handwritten signature in black ink, reading "John W. Keys, III". The signature is written in a cursive style with a large, looping initial "J".

John W. Keys, III
Commissioner

95-8774

5/12/95

AN EXAM WAS CONDUCTED BUT NOT COMPLETED FOR WATER RIGHT NUMBER 95-08687. AT THE TIME OF THE EXAM TODD ZIMMERMAN OF AVONDALE IRRIGATION STATED HE WANTED WATER RIGHT 95-08774 TO BE COMPLETED AT THE SAME TIME AS 95-08687. AN EXTENSION OF TIME WAS GRANTED FOR 95-08774. CONTACT TODD AT 772-5657 TO SEE WHEN THE WORK WILL BE COMPLETED.

SEE 95-8687

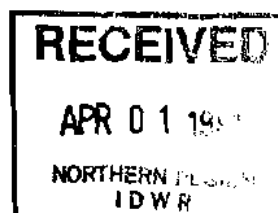
95-8774

AVONDALE IRRIGATION DISTRICT
P. O. BOX 81
HAYDEN LAKE, IDAHO 83835

HOURS
TUES. & WED. 9 A. M. - 4 P. M.
FRI 12 P. M. - 6 P. M.

MARCH 28, 1991

TOM KING
DEPT OF WATER RESOURCES
1910 NORTHWEST BLVD SUITE 210
COEUR D'ALENE, IDAHO 83814



DEAR TOM;

PER YOUR LETTER MARCH 22, 1991, THE LIST OF GOVERNING OFFICIALS FOR
THE AVONDALE IRRIGATION DISTRICT IS AS FOLLOWS:

DON ANDERSEN
CHAIRMAN
N. 10380 WALKER RD.
HAYDEN, IDAHO 83835

GARY LADWIG
VICECHAIRMAN
N. 10116 BATEMAN
HAYDEN, IDAHO 83835

RON MCINTIRE
DIRECTOR
P.O. BOX 10
HAYDEN, IDAHO 83835

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT THE OFFICE.

SINCERELY,

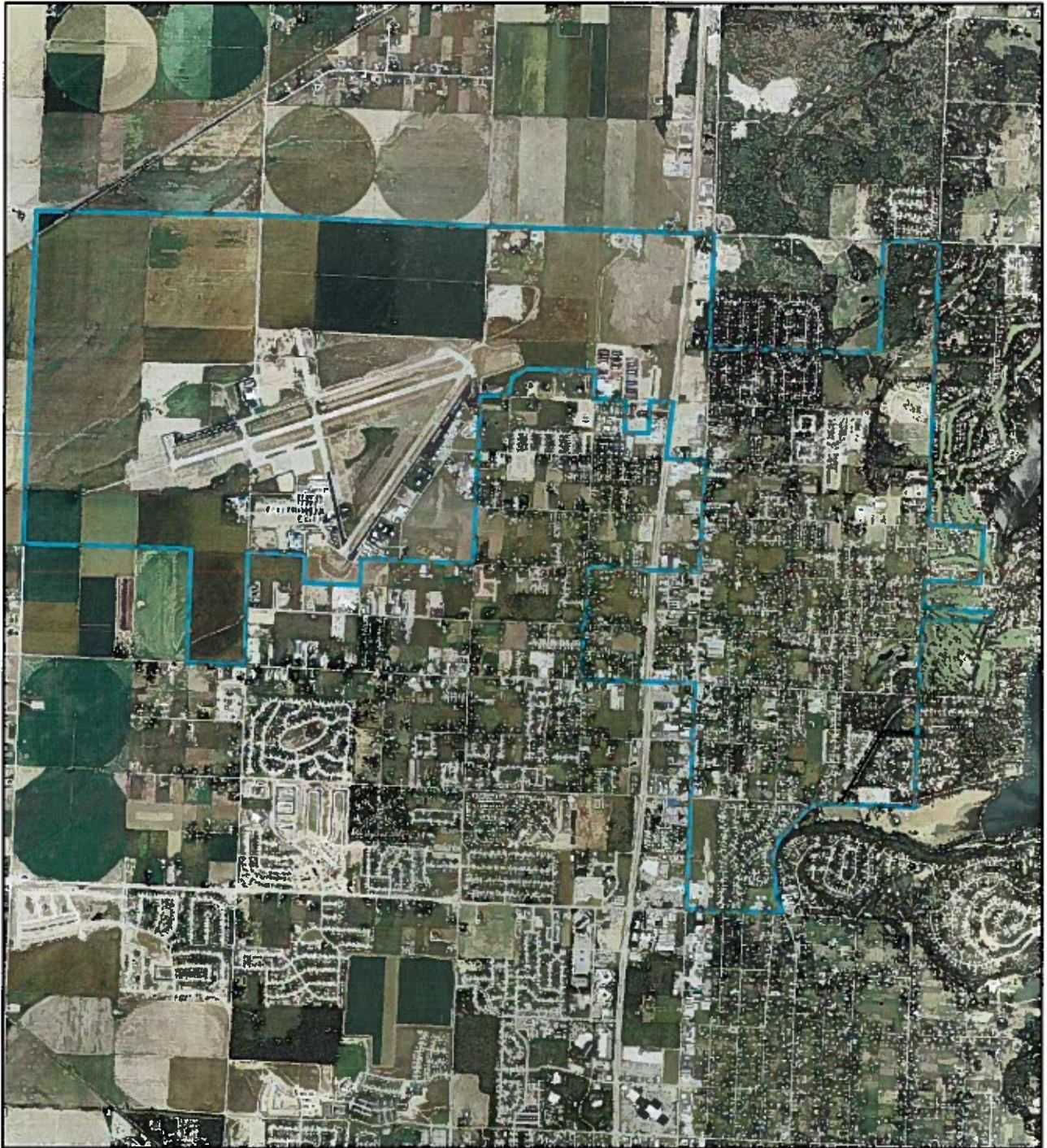
Connie Omei
CONNIE OMEY
SECRETARY

NOTED
JUL 16 1991

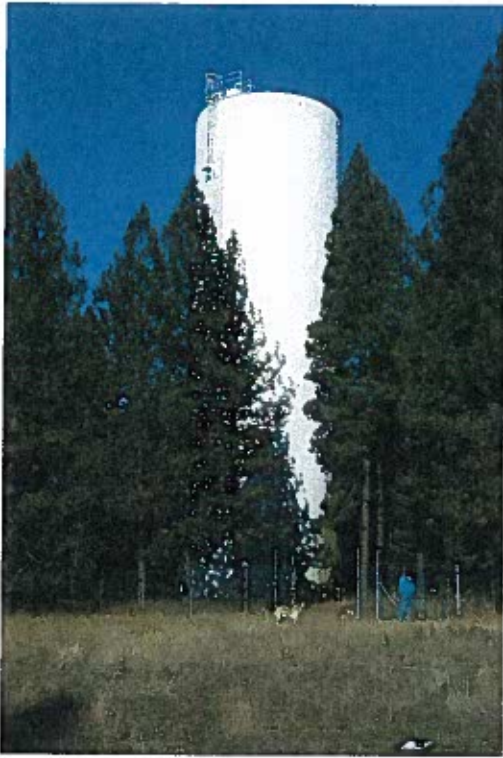
95-8774

95-8774

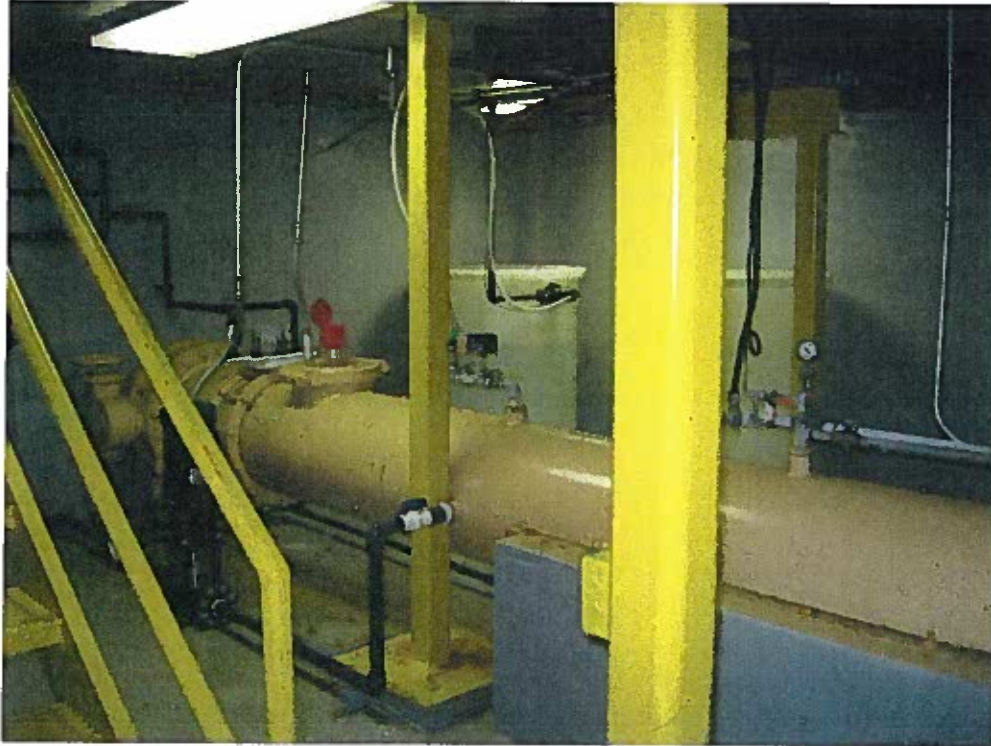
Prior to License



95-8774

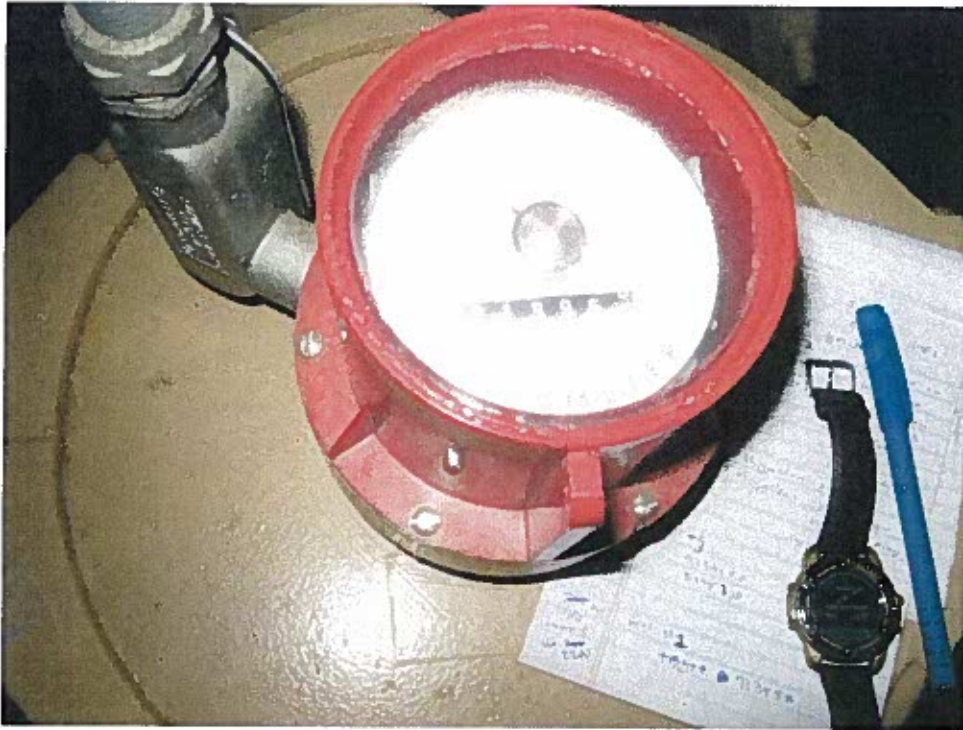


New Avondale Reservoir



Miles AVE Well Site Control BLDG

95-0774



Miles Control BLDG Flowmeter Wells 1-3



Miles AVE Baldor 3 HP Booster Pump

95-B774



Well 3 Miles AVE



Airport Well 1, POU & Unused Reservoir

95-8774



Airport Well 2 Flowmeter



Finucane 75 HP Well Interior

95-8774



95-08867

CD



CD



CD

95-8774

