



State of Idaho
DEPARTMENT OF WATER RESOURCES

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CECIL D. ANDRUS
 GOVERNOR

R. KEITH HIGGINSON
 DIRECTOR

August 10, 1993

RECEIVED

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Department of Water Resources
 Southern Region Office

George Lemmon
 Watermaster, District 36-A
 Rt. 1, Box 218
 Hagerman, ID 83332

Re: Curran Tunnel Measurements and Water Right Distribution

Dear George:

Following our meeting on Thursday, August 5, 1993, I returned to Curran Tunnel on August 6 to make additional and more complete measurements on the tunnel and all of the pipelines diverting water from the tunnel. The purpose of this letter is to advise you of these measurements and to provide you with direction regarding the distribution of the available water supply within Water District No. 36A.

Listed below is a summary of the August 6 measurements:

MEASUREMENT	TIME	METHOD	Q (cfs)
Open discharge inside tunnel	12:50 p.m.	current meter (Swoffer 2100)	5.20
Rangen Lab pipeline from head of tunnel	2:15 p.m.	Polysonic meter	1.08
Total Tunnel Discharge based on sum of open discharge measurement and Rangen Lab closed conduit measurement (polysonic meter)			6.28
Candy Pipeline	3:00 pm	Polysonic meter	0.175
Musser Pipeline	3:20 pm	Polysonic meter	1.43
Crandlemire Pipeline	3:45 pm	Polysonic meter	3.97

Total Irrigation Pipeline Discharge from Tunnel	5.58
Total Tunnel Discharge based on Pipeline Discharge measurements (including Rangen Lab pipe)	6.66

Using the set of polysonic meter measurements on the four pipelines from the tunnel, the total discharge from the tunnel or amount of water available for distribution is 6.66 cfs.

Based on my review of the *Idaho Power vs. New International Decree*, the 6.66 cfs measured on August 6 is available to fill all or portions of the following decreed water rights:

IDWR Water Right No.	Party	Priority	Decree Amount	SRBA Director Report Amount
36-0134	Candy	10/9/1884	3.20 cfs	0.44 cfs
	Crandlemire		"	2.40 cfs
	Rangen		"	0.09 cfs
	Total 1884		3.20 cfs	2.93 cfs
36-0102	Musser/Morris	4/1/1892	4.80 cfs	4.10 cfs
Total rights			8.00 cfs	7.03 cfs

The actual amount of water diverted to those diversions with 1884 rights on August 6 was 5.23 cfs. This is 2.03 cfs in excess of the actual 1884 decreed water rights. The Musser pipe, in which the 1892 right is delivered, only diverted 1.43 cfs, but was entitled to divert the 2.03 cfs which went to the 1884 right holders. The Musser pipe therefore could have diverted up to 3.46 cfs, or 72 percent of its full decreed right. I understand that Mr. Morris has stated that he has set aside 100 acres under the Musser 1892 right in 1993. If Mr. Morris still does not have a need to irrigate this 100 acres and assuming that these 100 acres would have been irrigated at one inch per acre, then the maximum amount of water that may be reasonably required to irrigate Musser's remaining lands is 2.8 cfs.

At this time, the Department requests that you contact the Curran Tunnel users and advise them of these measurements. The Department further reaffirms its direction to you of June 8, 1993 to distribute the available water supply from Curran Tunnel according to decreed priority and amounts unless the parties otherwise agree among themselves.

George Lemmon
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Please advise Norman Young or I in writing at this office by August 12, 1993 regarding the water users intentions for the distribution of the available supply of Curran Tunnel water.

Sincerely,

A handwritten signature in cursive script that reads "Tim Luke" followed by a stylized flourish.

TIM LUKE
Hydrologist, Water Allocations

TM:rf

cc: Southern Region
Pat Brown