

MEMORANDUM

Date: March 03, 2005
To: Water Right File 37-8169
From: E Retelle
Re: flow measurement data

I have received water measurement data from Lynn Harmon at the Big Wood River Canal Company. The flows were measured ½ mile upstream of the power plant. I was provided 4 years of data from April to September (the permit allows April 1 – November 1). Mr. Harmon indicates that years 1998 and 2000 are normal flow years, while 2001 and 2002 are drought years.

The average monthly flow of all months provided is 273 cfs. The permitted rate, 232 cfs, is approximately 15% below the mean of the provided data.

In light of this information, the Permit will be licensed at the permitted amount, rather than the 1988 field exam measurement amount.

Irrigation season flows at the South Gooding Main
1998, 2000, 2001 and 2002

37-08169

Apr-98	181
May-98	268
Jun-98	294
Jul-98	333
Aug-98	337
Sep-98	338
Apr-00	195
May-00	306
Jun-00	344
Jul-00	347
Aug-00	336
Sep-00	281
Apr-01	149
May-01	245
Jun-01	272
Jul-01	282
Aug-01	281
Sep-01	245
Apr-02	81
May-02	265
Jun-02	284
Jul-02	308
Aug-02	309
Sep-02	271
MEAN	273
10% below mean	245.7
10% above mean	300.3

RECEIVED

MAR 02 2005

DEPARTMENT OF
WATER RESOURCES

Big Wood Canal Company
American Falls Reservoir District No. 2
112 S. Apple * Box C
Shoshone, Idaho 83352
Tel. (208) 886-2331 Fax (208) 886-2010

February 25, 2005

Erin Retelle
Water Resource Agent
Idaho Dept. Water Resources
322 E. Front Street.
P. O. Box 83720
Boise, Idaho 83720-0098

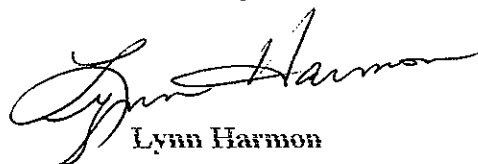
Re: Water Permit No. 37-8169

Erin:

I have enclosed flow readings for the South Gooding Main Canal at gage station 15. This gage is located 1/2 mile upstream of the power plant and should give *you fairly accurate flows for the canal section. I sent years 1998 and 2000, which were normal water flow years and 2001 and 2002 which have been reduced flows due to the drought.*

If you have any questions or need additional information don't hesitate to contact me at our office.

Sincerely,



Lynn Harmon
General Manager

1998

Normal Water Delivery flows

WATER DISTRICT 37 & 37M

CANAL NAME	SOUTH GOODING MAIN				CANAL NO. #15	1998	
OWNER	BIG WOOD CANAL CO						
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	DATE
1		268	270	321	337	347	1
2		276	268	321	337	343	2
3	31	273	268	323	337	347	3
4	31	273	268	325	337	343	4
5	31	273	268	328	339	343	5
6	31	273	268	332	337	347	6
7	43	265	268	336	337	343	7
8	43	268	295	336	337	343	8
9	181	267	295	332	334	343	9
10	179	267	295	336	337	343	10
11	165	268	298	336	337	343	11
12	188	268	297	332	337	343	12
13	153	267	297	334	330	343	13
14	153	268	298	332	330	343	14
15	191	268	298	330	330	343	15
16	240	268	295	325	330	343	16
17	240	268	295	334	330	343	17
18	241	268	295	334	334	345	18
19	240	267	295	334	334	345	19
20	240	267	295	334	339	347	20
21	240	265	297	334	341	343	21
22	240	267	295	334	341	326	22
23	241	268	298	337	339	326	23
24	241	268	297	337	339	328	24
25	240	265	314	337	339	328	25
26	240	268	318	337	337	328	26
27	234	268	318	337	339	330	27
28	234	268	314	337	341	328	28
29	252	267	314	337	339	328	29
30	271	268	314	337	337	283	30
31		268		337	349		31
TOTAL	5054	8320	8805	10316	10441	10128	
MEAN	181	268	294	333	337	338	
ACRE FT	10007	16474	17434	20426	20673	20053	

YEARLY C F S	53064
YEARLY ACRE FEET	105067
TOTAL NO OF DAYS	181
YEARLY MEAN	293

2000 Normal water flows

WATER DISTRICT 37 & 37M

CANAL NAME	SOUTH GOODING MAIN				CANAL NO. 15		2000
OWNER	BIG WOOD CANAL CO						
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	DATE
1		281	321	358	332	326	1
2		300	350	358	339	330	2
3		302	360	358	343	330	3
4		302	362	354	343	334	4
5	254	302	362	354	343	326	5
6	191	302	337	354	341	328	6
7	153	302	337	354	343	325	7
8	120	300	337	354	343	326	8
9	110	300	339	358	343	328	9
10	84	300	343	360	343	291	10
11	66	300	341	343	343	263	11
12	87	302	339	345	343	263	12
13	108	298	339	347	347	263	13
14	111	298	337	345	345	263	14
15	109	298	339	345	330	263	15
16	112	302	339	345	330	262	16
17	112	303	343	345	330	262	17
18	202	303	337	345	334	263	18
19	216	303	339	345	334	252	19
20	246	303	339	343	334	254	20
21	259	303	343	343	334	254	21
22	281	303	339	343	334	254	22
23	281	325	341	347	334	254	23
24	281	323	347	347	326	254	24
25	281	323	349	347	326	255	25
26	283	321	350	347	328	257	26
27	281	321	347	332	332	259	27
28	283	321	347	332	330	259	28
29	285	321	350	332	330	259	29
30	283	319	358	332	326	259	30
31		319		334	323		31
TOTAL	5079	9500	10311	10746	10406	8416	
MEAN	195	306	344	347	336	281	
ACRE FT	10056	18810	20416	21277	20604	16664	

YEARLY C F S

54458

YEARLY ACRE FEET

107827

TOTAL NO OF DAYS

179

Flows are
in cubic feet

Yearly Mean 304

2001 80% water flows

WATER DISTRICT 37 & 37M

WATER DISTRICT 37 & 37M							
CANAL NAME		SOUTH GOODING MAIN			CANAL NO. 15		2001
OWNER		BIG WOOD CANAL CO					
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	DATE
1		222	266	285	282	280	1
2	80	222	268	287	282	282	2
3	76	215	266	287	282	282	3
4	75	215	266	285	284	277	4
5	76	215	268	285	282	279	5
6	74	215	268	287	280	284	6
7	61	215	268	285	284	280	7
8	120	213	268	287	282	279	8
9	153	228	271	285	282	279	9
10	202	243	271	287	282	282	10
11	142	243	271	280	282	280	11
12	94	244	271	274	282	277	12
13	120	244	273	274	282	280	13
14	149	243	271	274	279	279	14
15	149	244	271	274	279	277	15
16	149	244	271	280	279	279	16
17	149	244	271	282	279	277	17
18	149	249	271	284	279	279	18
19	160	254	271	282	279	279	19
20	173	254	268	282	279	274	20
21	173	254	274	282	282	217	21
22	174	260	276	282	279	150	22
23	173	262	276	282	279	150	23
24	191	270	274	285	279	162	24
25	191	270	277	282	279	180	25
26	201	267	277	282	279	180	26
27	213	268	277	282	279	180	27
28	222	267	277	282	279	180	28
29	221	265	284	282	279	178	29
30	221	266	287	282	279	178	30
31		266		282	282		31
TOTAL	4331	7581	8168	8751	8696	7340	
MEAN	149	245	272	282	281	245	
ACRE FT	8575	15010	16173	17327	17218	14533	

YEARLY C F S 44867
 YEARLY ACRE FEET 88837
 TOTAL NO OF DAYS 182
 YEARLY MEAN 247

OWNER BIG WOOD CANAL CO 2002 80 % water flows

DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	DATE
1		193	266	280	310	300	1
2	132	165	280	280	308	302	2
3	100	203	280	295	308	300	3
4	87	249	282	295	310	293	4
5	82	251	282	307	308	289	5
6	74	246	282	310	308	289	6
7	74	240	282	315	308	289	7
8	69	251	282	313	308	290	8
9	72	262	282	312	308	289	9
10	67	280	282	312	310	292	10
11	62	287	282	313	310	292	11
12	60	284	284	313	310	293	12
13	57	266	285	313	310	293	13
14	55	257	285	313	310	287	14
15	55	282	293	313	310	285	15
16	56	282	298	312	312	280	16
17	65	282	298	313	312	274	17
18	61	282	298	313	305	262	18
19	60	282	284	312	313	255	19
20	62	282	284	312	305	255	20
21	59	282	284	312	310	255	21
22	56	282	284	313	310	255	22
23	53	282	284	310	313	255	23
24	47	284	284	310	313	255	24
25	48	284	280	310	312	243	25
26	40	284	280	310	313	229	26
27	198	284	280	310	310	229	27
28	165	280	280	310	307	233	28
29	165	280	280	310	300	233	29
30	177	269	280	310	302	233	30
31		266		310	303		31
TOTAL	2358	8203	8507	9561	9576	8129	
MEAN	81	265	284	308	309	271	
ACRE FT	4669	16242	16844	18931	18960	16095	

YEARLY C F S 46334
 YEARLY ACRE FEET 91741
 TOTAL NO OF DAYS 182
 YEARLY MEAN 255

Flows are in
 cubic feet