

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER DISTRICT NO. 37 & 37M
107 WEST 1ST
SHOSHONE, IDAHO 83352
(208) 886-2451



RECEIVED

AUG 12 2008

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Attn: Allen Merritt 736 - 3037

Re: Brockway Engineering letter to accompany
Aspen Lakes letter which was sent via
email

6 pages including cover page

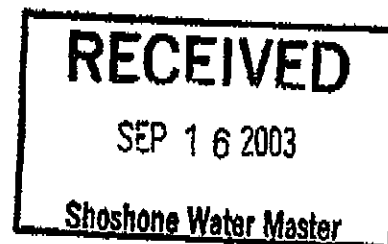


BROCKWAY
ENGINEERING
LLC

Hydraulics

Hydrology

Water Resources



September 11, 2003

Mr. Lee Peterson, Watermaster
Water District 37 / 37M
P.O. Box T
Shoshone, ID 83352

RECEIVED

AUG 12 2008

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Re: Big Wood River diversion #27 - Aspen Lakes Canal Company

Dear Lee:

The new diversion system for headgate #27 has been completed according to the plans you reviewed and approved. The system consists of an intake structure with an 18-inch Waterman C-10 canal gate leading to an 18-inch steel pipe. The pipe runs about 50 feet to a concrete sump, and water is pumped from the sump with two low-head high-volume pumps. The water in the sump "rides" on the river water elevation, and diversion from the river only takes place when the pumps are started. A schematic diagram of the system is included with this letter.

The Aspen Lakes Canal Company is a newly-formed company consisting of the owners of various lots within the Flying Heart Ranch subdivision, as evidenced by the enclosed Articles of Incorporation for this company. The company will be the owner of the irrigation water rights 37-557, 37-558, and 37-559, as follows:

Right No.	Priority Date	Diversion Rate
37-557	5/15/1884	1.0 cfs (50 inches)
37-558	6/1/1886	2.0 cfs (100 inches)
37-559	6/1/1888	3.6 cfs (180 inches)
TOTAL		6.6 cfs (330 inches)

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208-736-8543

FAX: 736-8506

My understanding is that the owners will be quitclaiming water rights as necessary to the company.

WR R/Ly 3/24/1883

Apart from the irrigation rights, there is right 37-30013 (37-577AH on your decree book) to be delivered to this headgate. This right is a "flow-through" right for 60 inches for fish propagation, recreation, and aesthetic uses, and my understanding is that it is not generally subject to priority cuts. This right will not be owned by the Aspen Lakes Canal Company.

7/31/2008 KDL
Current Owner
- Rur Grove
Farm
Peter Thomas Trus
Past Owner
- Bruce Willis

L. Peterson 9/11/03

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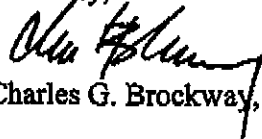
The pump station delivers water to the existing ditch to serve the downstream water users. This water is measured by a 2-foot broad-crested weir located just downstream of the pumping plant. A rating table was developed for this weir and is included with this letter.

The owner of Lot 33 (the northernmost user) takes water in an 8-inch line directly from the north pump discharge line to his irrigation system. Since this water is taken before the measuring weir, a separate flow meter and valve is provided on the 8-inch line. The flow meter is an in-line McCrometer meter which reads in gallons per minute. The total diversion from the river is the sum of the weir discharge and the McCrometer meter discharge.

The attached table should be used when administering the water rights. Regulation of the diversion should be accomplished by adjusting the control valves located on the discharge lines of the pumps and on the 8-inch line. Please do not adjust the canal gate at the river, since doing so may dewater the pump sump and cause the pumps to malfunction.

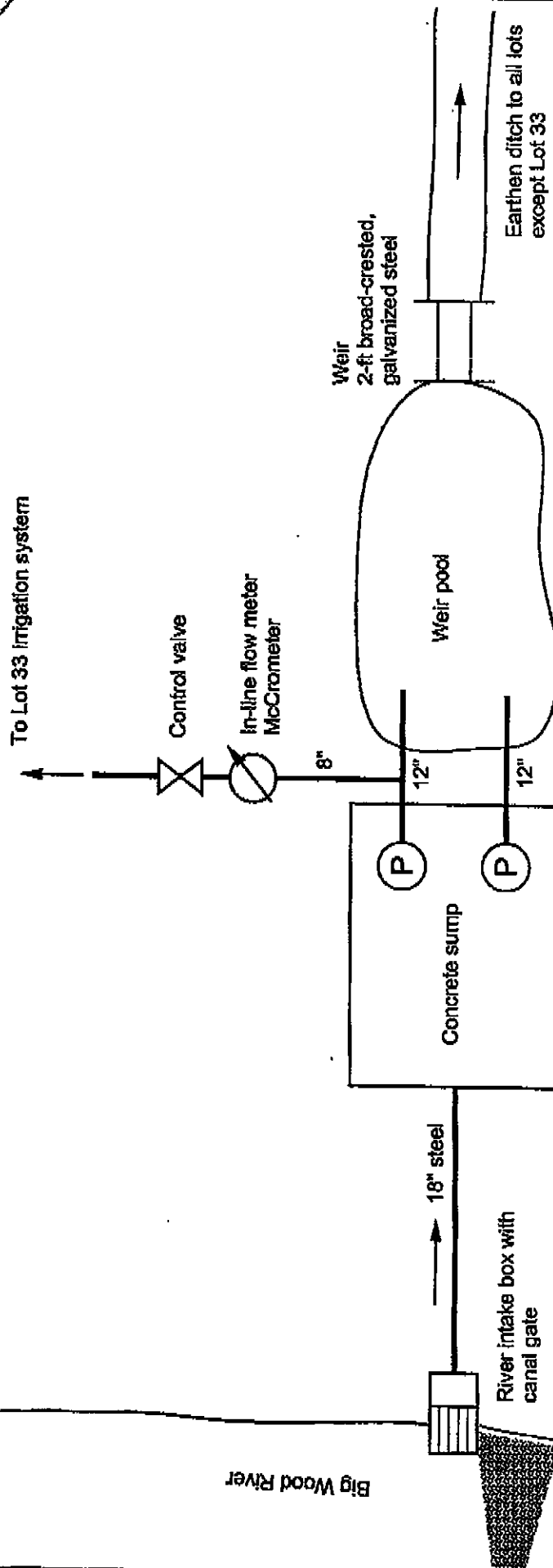
Please do not hesitate to contact me if you have any questions.

Cordially,


Charles G. Brockway, P.E.

Enc.

cc: Jim Speck, Registered Agent



Schematic of Aspen Lakes Canal Company Diversion #27 Big Wood River

NOT TO SCALE

RATING TABLE FOR 2-FT BROAD-CRESTED WEIR
BIG WOOD RIVER HEADGATE #27
ASPEN LAKES CANAL COMPANY
 Brockway Engineering, PLLC

REVISED MAY 25, 2004

THIS TABLE TO REPLACE ALL PREVIOUS TABLES

Equation: $Q = a * (H + b)^c$

Gauge shift =

0 feet

a = 6.521

b = 0.014

c = 1.604

DISCHARGE IN CUBIC FEET PER SECOND

H (ft)	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.2	0.55	0.59	0.63	0.68	0.72	0.77	0.82	0.87	0.92	0.97
0.3	1.02	1.07	1.12	1.18	1.23	1.29	1.35	1.40	1.46	1.52
0.4	1.58	1.65	1.71	1.77	1.84	1.90	1.97	2.04	2.10	2.17
0.5	2.24	2.31	2.38	2.46	2.53	2.60	2.68	2.75	2.83	2.90
0.6	2.98	3.06	3.14	3.22	3.30	3.38	3.46	3.55	3.63	3.71
0.7	3.80	3.88	3.97	4.06	4.15	4.23	4.32	4.41	4.50	4.60
0.8	4.69	4.78	4.87	4.97	5.06	5.16	5.25	5.35	5.45	5.55
0.9	5.65	5.74	5.84	5.95	6.05	6.15	6.25	6.35	6.46	6.56

DISCHARGE IN GALLONS PER MINUTE

H (ft)	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.2	247	266	285	305	325	346	367	389	411	433
0.3	457	480	504	528	553	579	604	630	657	684
0.4	711	739	767	796	825	854	884	914	944	975
0.5	1006	1038	1070	1102	1135	1168	1201	1235	1269	1304
0.6	1338	1374	1409	1446	1481	1517	1554	1591	1629	1667
0.7	1705	1743	1782	1821	1861	1900	1940	1981	2022	2063
0.8	2104	2145	2187	2230	2272	2315	2358	2401	2445	2489
0.9	2534	2578	2623	2668	2714	2759	2806	2852	2899	2945

**Table for Administration of Water Rights
Aspen Lakes Canal Company
Big Wood River Headgate #27**

Brockway Engineering
September 11, 2003

Rights Active	Total irrigation rights	Total fish/rec/aes rights	Total diversion from river	McCrometer flow	Weir flow
37-557, 37-558, 37-559	6.6 cfs	1.2 cfs	7.80 cfs	1.10 cfs / 494 gpm	6.70 cfs
37-557, 37-558	3.0 cfs	1.2 cfs	4.20 cfs	0.50 cfs / 224 gpm	3.70 cfs
37-557	1.0 cfs	1.2 cfs	2.20 cfs	0.17 cfs / 75 gpm	2.03 cfs
None (all irrigation rights cut)	0 cfs	1.2 cfs	1.20 cfs	Shut off	1.20 cfs