CHARLES
BROCKWAY
ENGINEERING

January 17, 1994

Mr. John Bryant
Cedar Mesa Reservoir and Canal Co
1055 Redbud Road
Redding CA 96001

Subject: Discharge Rating Tables for Cedar and House Creek Weirs

Dear John:

Enclosed are the discharge rating curves and tables for the broad crested weirs installed on Cedar Creek and House Creek. These are the computer ratings based on as-built dimensions and staff gage placement as surveyed

Both weirs should be kept clear of debris which will affect the staff gage reading. If necessary, to maintain a continuous record of gage height, strip chart recorders can be placed on the stilling wells constructed with each weir. This would only be necessary if someone questions the short term fluctuations of the discharge or if records are desired when the water master cannot visit the sites frequently.

I discussed the House Creek overflow structure installation with Nyal Winn and indicated that it was placed too high. He had not visited the site but said that he would do so. I indicated that my instructions to his back hoe operator were to place to top of the overflow 1.2 feet above the top of the sill as per installed stakes. Since the structure as installed is almost 3 feet above the sill, he should correct the situation at no additional cost.

Hope you are feeling better. Call if you have questions. 208 733 0938

Sincerely,

C. E. Brockway, P.E.

cc Jack Eastman, Water master
John Coleman
IDWR Loren Holmes

CHARLES E.
BROCKWAY,
PHD, P.E.

706 SUNRISE
BOULEVARD
NORTH

TWIN FALLS,
IDAHO 83301

208 •733 •0938
FAX: 733 •1746

HOUSE CREEK ABOVE CEDAR MESA RESERVOIR (ROSEWORTH)

8 FT BROAD CRESTED WEIR

INSTALLED DECEMBER 1993

COMPUTER RATED

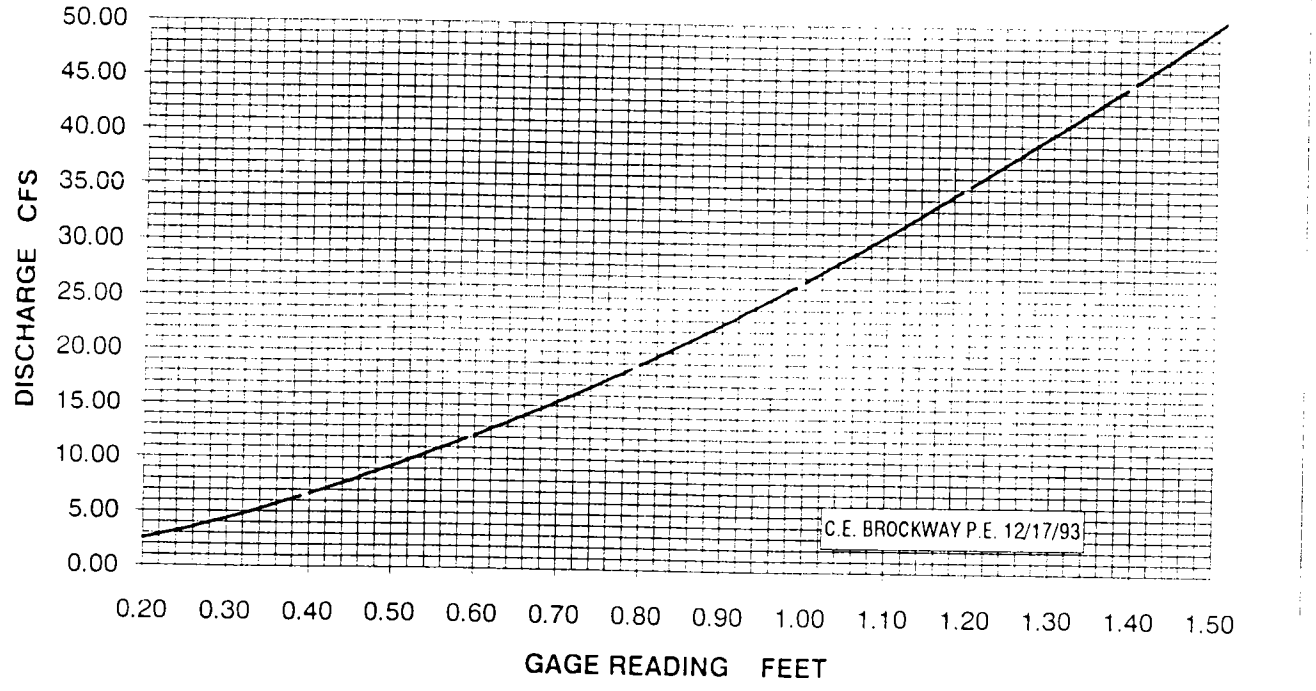
Q=DISCHARGE IN CFS

H=HEAD ON WEIR IN FEET MEASURED ON STAFF GAGE OR RECORDER

STAFF GAGE ZERO IS 0.02 FT ABOVE SILL ELEVATION

EQN. Q= 25.39 *(H+ 0.011)** 1.593

HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS
0.20	2.45	0.40	6.63	0.60	12.18	0.80	18.89	1.00	26.64	1.20	35.33	1.40	44.91
0.21	2.62	0.41	6.88	0.61	12.49	0.81	19.25	1.01	27.05	1.21	35.79	1.41	45.42
0.22	2.80	0.42	7.13	0.62	12.80	0.82	19.62	1.02	27.46	1.22	36.25	1.42	45.92
0.23	2.98	0.43	7.38	0.63	13.11	0.83	19.99	1.03	27.88	1.23	36.72	1.43	46.42
0.24	3.16	0.44	7.64	0.64	13.43	0.84	20.36	1.04	28.30	1.24	37.18	1.44	46.93
0.25	3.35	0.45	7.90	0.65	13.75	0.85	20.73	1.05	28.72	1.25	37.65	1.45	47.44
0.26	3.54	0.46	8.16	0.66	14.08	0.86	21.11	1.06	29.15	1.26	38.12	1.46	47.95
0.27	3.74	0.47	8.43	0.67	14.40	0.87	21.49	1.07	29.58	1.27	38.59	1.47	48.47
0.28	3.94	0.48	8.70	0.68	14.73	0.88	21.87	1.08	30.01	1.28	39.06	1.48	48.98
0.29	4.14	0.49	8.97	0.69	15.06	0.89	22.25	1.09	30.44	1.29	39.54	1.49	49.50
0.30	4.35	0.50	9.25	0.70	15.40	0.90	22.64	1.10	30.87	1.30	40.02	1.50	50.02
0.31	4.56	0.51	9.53	0.71	15.73	0.91	23.03	1.11	31.31	1.31	40.50	1.51	50.54
0.32	4.78	0.52	9.81	0.72	16.07	0.92	23.42	1.12	31.75	1.32	40.98	1.52	51.06
0.33	5.00	0.53	10.10	0.73	16.42	0.93	23.81	1.13	32.19	1.33	41.46	1.53	51.59
0.34	5.22	0.54	10.38	0.74	16.76	0.94	24.21	1.14	32.63	1.34	41.95	1.54	52.12
0.35	5.45	0.55	10.68	0.75	17.11	0.95	24.61	1.15	33.07	1.35	42.44	1.55	52.65
0.36	5.68	0.56	10.97	0.76	17.46	0.96	25.01	1.16	33.52	1.36	42.93	1.56	53.18
0.37	5.91	0.57	11.27	0.77	17.81	0.97	25.41	1.17	33.97	1.37	43.42	1.57	53.71
0.38	6.15	0.58	11.57	0.78	18.17	0.98	25.82	1.18	34.42	1.38	43.92	1.58	54.25
0.39	6.39	0.59	11.87	0.79	18.53	0.99	26.23	1.19	34.88	1.39	44.42	1.59	54.79



CEDAR CREEK ABOVE THREE CREEK ROAD

6 FT BROAD CRESTED WEIR

INSTALLED DECEMBER 1993

COMPUTER RATED

Q=DISCHARGE IN CFS

H=HEAD ON WEIR IN FEET MEASURED ON STAFF GAGE OR RECORDER

STAFF GAGE ZERO IS 0.05 FT ABOVE SILL ELEVATION

EQN. Q= 19.09 *(H+ 0.012)** 1.598

HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS	HEAD FEET	Q CFS
0.20	2.25	0.40	5.56	0.60	9.88	0.80	15.06	1.00	21.02	1.20	27.69	1.40	35.02
0.21	2.38	0.41	5.75	0.61	10.12	0.81	15.34	1.01	21.33	1.21	28.04	1.41	35.41
0.22	2.53	0.42	5.95	0.62	10.36	0.82	15.62	1.02	21.65	1.22	28.39	1.42	35.79
0.23	2.67	0.43	6.15	0.63	10.60	0.83	15.90	1.03	21.97	1.23	28.75	1.43	36.18
0.24	2.82	0.44	6.35	0.64	10.85	0.84	16.19	1.04	22.29	1.24	29.10	1.44	36.57
0.25	2.97	0.45	6.55	0.65	11.09	0.85	16.48	1.05	22.62	1.25	29.46	1.45	36.96
0.26	3.12	0.46	6.76	0.66	11.34	0.86	16.77	1.06	22.94	1.26	29.82	1.46	37.35
0.27	3.28	0.47	6.96	0.67	11.60	0.87	17.06	1.07	23.27	1.27	30.18	1.47	37.74
0.28	3.44	0.48	7.17	0.68	11.85	0.88	17.35	1.08	23.60	1.28	30.54	1.48	38.13
0.29	3.60	0.49	7.39	0.69	12.11	0.89	17.65	1.09	23.93	1.29	30.91	1.49	38.53
0.30	3.76	0.50	7.60	0.70	12.37	0.90	17.94	1.10	24.27	1.30	31.27	1.50	38.93
0.31	3.93	0.51	7.82	0.71	12.63	0.91	18.24	1.11	24.60	1.31	31.64	1.51	39.33
0.32	4.10	0.52	8.04	0.72	12.89	0.92	18.54	1.12	24.94	1.32	32.01	1.52	39.73
0.33	4.28	0.53	8.26	0.73	13.15	0.93	18.85	1.13	25.27	1.33	32.38	1.53	40.13
0.34	4.45	0.54	8.49	0.74	13.42	0.94	19.15	1.14	25.61	1.34	32.75	1.54	40.53
0.35	4.63	0.55	8.71	0.75	13.69	0.95	19.46	1.15	25.95	1.35	33.13	1.55	40.94
0.36	4.81	0.56	8.94	0.76	13.96	0.96	19.77	1.16	26.30	1.36	33.50	1.56	41.34
0.37	4.99	0.57	9.17	0.77	14.23	0.97	20.08	1.17	26.64	1.37	33.88	1.57	41.75
0.38	5.18	0.58	9.40	0.78	14.50	0.98	20.39	1.18	26.99	1.38	34.26	1.58	42.16
0.39	5.37	0.59	9.64	0.79	14.78	0.99	20.70	1.19	27.34	1.39	34.64	1.59	42.57