IMPROVEMENT DISTRICT NO. 97
Clear Creek Aesthetic Flow Maintenance

GAGE READINGS

2005

Reading Date	Gage Reading in Feet	Corresponding Flow in CFS	Release from Jenkinson Lake in CFS
1/14/2005	0.96	> 8.5	0
1/21/2005	0.77	3.70	0
1/28/2005	0.96	> 8.5	0
2/4/2005	0.76	3.34	0
2/15/2005	0.88	8.50	0
2/18/2005	0.87	7.83	0
2/25/2005	0.89	> 8.5	0
3/4/2005	0.90	> 8.5	0
3/11/2005	0.86	7.21	0
3/18/2005	0.68	2.16 [1]	0
3/25/2005	1.44	> 8.5	0
4/1/2005	1.03	> 8.5	0
4/8/2005	0.97	> 8.5	0
4/15/2005	0.95	> 8.5	0
4/22/2005	0.75	3.18	0
4/30/2005	0.74	3.02	0
5/7/2005	0.80	4.70	0
5/13/2005	0.94	> 8.5	0
5/22/2005	0.90	> 8.5	0
5/27/2005	0.80	4.70	0
6/2/2005	0.72	2.72	0

[1] On the following day, 0.79 inches of rainfall was recorded with heavy rains continuing for several days.

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6/9/2005	0.85	6.64	0
6/16/2005	0.71	2.58 [2]	0
6/23/2005	0.67	2.03 [3]	0
6/30/2005	0.72	2.72	2
7/7/2005	0.70	2.45	2
7/12/2005	0.71	2.58	3
7/15/2005	0.82	5.36	4 [4]
7/21/2005	0.80	4.70	4
7/28/2005	0.78	4.10	2
8/4/2005	0.75	3.18	2
8/11/2005	0.71	2.58	2
8/18/2005	0.76	3.34	2
8/25/2005	0.76	3.34	2
9/1/2005	0.73	2.87	2
9/8/2005	0.76	3.34	2
9/15/2005	0.74	3.02	2
9/22/2005	0.76	3.34	3
9/29/2005	0.79	4.39	3
10/6/2005	0.78	4.10	2
10/13/2005	0.79	4.39	3

[2] Rainfall was also recorded on this day so the flows would be increasing due to natural runoff.
[3] Releases to Clear Creek began on 06/25/05.
[4] The original slide gate was opened to allow for completion of the turn-out structure improvements. The releases through the slide gate will be higher than intended due to high demands at the water treatment plant.

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2005

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10/20/2005	0.74	3.02	2.2
10/27/2005	0.60	1.32 [5]	1.0
11/3/2005	0.79	4.10 [6]	1.5
11/4/2005	0.71	2.58	0.7
11/6/2005	0.74	3.02	1.5
11/10/2005	0.76	3.34	2.5
11/17/2005	0.78	4.10 [7]	2.5
11/24/2005	0.75	3.18	2.0
12/1/2005	0.96	> 8.5	0.0
12/4/2005	0.63	1.58 [8]	1.5
12/8/2005	0.71	2.58	1.5
12/18/2005	0.96	> 8.5	1.0
12/22/2005	1.00	> 8.5	0.0
12/29/2005	1.08	> 8.5	0.0

[5] District staff investigated the drop in Clear Creek flows, and determined that it was due to a break in the POM Transmission Main that caused a sudden drop in plant flows, which directly affects releases at the turnout structure. Plant flows were increased the following day to bring the creek flows back up to the minimum target.
[6] Cooler weather and rainfall required additional adjustments to maintain the target flow.
[7] After this reading, the releases were reduced to 2.0 cfs at the turnout structure.
[8] The releases were started up again immediately after this reading.

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GAGE RATING TABLE										
ALL FLOWS IN CFS										
Gage Height in Feet	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.5	NR	NR	NR	NR	NR	NR	1.00	1.07	1.15	1.23
0.6	1.32	1.41	1.50	1.58	1.66	1.78	1.90	2.03	2.16	2.30
0.7	2.45	2.58	2.72	2.87	3.02	3.18	3.34	3.70	4.10	4.39
0.8	4.70	5.02	5.36	5.72	6.10	6.64	7.21	7.83	8.50	> 8.5

NR = Not Rated

CFS = Cubic Feet per Second, 1 CFS yields approximately 2 acre-feet per day

AF = An acre-foot of water would cover one acre of land one foot deep.