10-2549.60 WASTES FROM MEXICALI POTABLE WATER PLANT TO NEW RIVER IN MEXICO

DESCRIPTION: A 3.5-meter Parshall flume, installed by the State Commission of Public Services of Mexicali, is located 2.0 kilometers upstream of the pumping plant on the supply canal. Excess water discharges into an open channel, thence into a 91 centimeter diameter pipe that empties into Rivera Drain (Drain 134), which is 2.0 kilometers below the plant and 2.0 kilometers south of the international boundary. From this point the waste is carried by a closed concrete box conduit into New River.

RECORDS: During 2001 the mean daily flows were computed from the total inflow to the potable water plant as measured at the Parshall flume, less the water pumped to the city and the water used in the maintenance of the plant. The records are obtained and furnished by the State Commission of Public Services of Mexicali. Records available: January 1968 through December 2001.

REMARKS: The plant began operation on September 28, 1963 by the State Commission of Public Services of Mexicali. Before 1968 the flow was small and infrequent. The potable water plant obtains water from the West Main Canal, which is a part of Mexico's system of canals in the Colorado Irrigation System. Excess water discharges into a closed conduit that empties into New River 1.4 kilometers upstream of the international boundary.

EXTREMES: Maximum instantaneous discharge, 2.32 CMS on March 26, 1969; minimum instantaneous discharge, zero during several days in the years 1977 through 2001.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2001 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.02	0.04	0.04	0.04	0.04	0.06	0.05	0.04	0.05	0.04	0.04	0.03
2	.03	.05	.04	.03	.04	.04	.06	.06	.03	.03	.03	.02
3	.02	.02	.03	.04	.04	.04	.07	.05	.05	.03	.03	.02
4	.04	.03	.03	.04	.04	.06	.07	.05	.05	.03	.03	.02
5	.04	.03	.03	.05	.05	.05	.06	.03	.05	.05	.04	.02
6	.03	.03	.02	.06	.05	.07	.05	.05	.06	.04	.03	.02
7	.03	.03	.03	.03	.04	.04	.05	.05	.06	.03	.03	.02
8	.02	.04	.04	.04	.04	.06	.03	.05	.05	.05	.03	.02
9	.02	.03	.05	.03	.06	.05	.07	.05	.03	.03	.02	.02
10	.03	.03	.03	.06	.06	.03	.06	.06	.05	.03	.04	.02
11	.04	.02	.02	.03	.04	.05	.05	.05	.05	.05	.03	.03
12	.04	.03	.04	.04	.04	.05	.07	.03	.05	.03	.03	.02
13	.03	.03	.04	.05	.04	.07	.05	.05	.04	.04	.04	.01
14	.04	.03	.03	.02	.05	.04	.05	.05	.05	.04	.03	.02
15	.03	.03	.04	.03	.07	.06	.04	.05	.04	.04	.03	.01
16	.03	.04	.05	.03	.05	.04	.07	.05	.03	.03	.02	.01
17	.03	.04	.03	.03	.04	.04	.06	.05	.04	.03	.04	0
18	.04	.03	.02	.05	.07	.08	.06	.05	.03	.04	.03	.01
19	.04	.04	.04	.05	.05	.05	.06	.02	.04	.05	.03	.02
20	.04	.03	.05	.03	.06	.07	.06	.05	.03	.04	.03	.01
21	.04	.03	.02	.03	.06	.07	.06	.05	.05	.04	.03	0
22	.04	.03	.04	.03	.05	.06	.03	.05	.03	.03	.03	.02
23	.04	.04	.04	.04	.05	.07	.06	.05	.03	.04	.03	.02
24	.04	.02	.03	.05	.07	.05	.05	.05	.04	.03	.03	0
25	.05	.03	.04	.04	.05	.08	.05	.05	.03	.03	.02	.02
26	.03	.03	.05	.04	.07	.07	.05	.03	.05	.04	.02	.01
27	.04	.04	.03	.05	.05	.07	.05	.05	.03	.03	.02	.01
28	.05	.04	.04	.04	.06	.07	.04	.05	.04	.02	.02	.01
29	.03		.04	.04	.04	.07	.03	.06	.04	.04	.02	.01
30	.03		.04	.06	.06	.06	.06	.05	.03	.03	.02	.02
31	.04		.05		.05		.05	.05		.03		.02
Sum	1.07	0.91	1.12	1.20	1.58	1.72	1.67	1.48	1.25	1.11	0.87	0.49

	Current Year 2001					Period 1968-2001		
	Extreme Gage Meters		Extreme-Cubic Meters per Second			Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ Low Day	Average	Total	Average	Maximum	Minimum
Jan.			25	0.05	! 1	0.02	0.03	92.4	145	641	0
Feb.			2	.05	! 3	.02	.03	78.6	98.5	384	0
Mar.			! 9	.05	6	.02	.04	96.8	179	1,074	0
April			! 6	.06	14	.02	.04	104	173	532	0
May			15	.07	! 1	.04	.05	137	188	537	53.6
June			!18	.08	10	.03	.06	149	176	504	25.9
July			! 3	.07	8	.03	.05	144	210	651	0
Aug.			! 2	.06	19	.02	.05	128	227	735	39.7
Sept.			! 6	.06	2	.03	.04	108	213	677	44.1
Oct.			! 5	.05	28	.02	.04	95.9	199	625	46.7
Nov.			! 1	.04	! 9	.02	.03	75.2	175	622	32.8
Dec.			! 1	.03	!17	0	.02	42.3	162	737	8.6
Yearly				0.08		0	0.04	1,251	2,145	6,610	550

@ Mean daily ! And other days