103087885 Leviathan Creek Channel Underdrain near Markleeville, CA

Carson River Basin

LOCATION.--Lat 38°42′34″, long 119°39′41″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.15, T.10 N., R.21 E., Alpine County, CA, Hydrologic Unit 16050201, 2.9 mi north of State Highway 89, and 6.5 mi east of Markleeville.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Days that indicate no flow are days when all flow is being pumped to Leviathan Mine Pond 4 (station 103087887) for treatment. This treated water was pumped back through this site at a later date.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 0.3514 ft^3/s, Sept. 17, 2005; no flow on many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 0.2682 ft^3/s, Nov. 7; no flow on many days in October.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.0000	0.0540	0.0589	0.0578	0.0572	0.0461	0.0607	0.0589	0.0545	0.0375	0.0330	0.0280
2	0.1284	0.0485	0.0596	0.0577	0.0565	0.0455	0.0548	0.0584	0.0508	0.0371	0.0334	0.0285
3	0.2534	0.0430	0.0587	0.0574	0.0567	0.0451	0.0559	0.0579	0.0496	0.0360	0.0328	0.0283
4	0.2434	0.0427	e0.0580	0.0578	0.0570	0.0447	0.0575	0.0578	0.0496	0.0361	0.0319	0.0279
5	0.2383	0.0415	0.0580	0.0578	0.0573	0.0441	0.0578	0.0581	0.0472	0.0355	0.0319	0.0276
6	0.2020	0.1923	0.0592	0.0578	0.0556	0.0437	0.0578	0.0581	0.0443	0.0354	0.0332	0.0274
7	0.0722	0.2682	0.0594	0.0578	0.0522	0.0454	0.0580	0.0583	0.0453	0.0352	0.0339	0.0275
8	0.0000	0.2629	0.0597	0.0578	0.0517	0.0478	0.0579	0.0580	0.0460	0.0349	0.0347	0.0275
9	0.0000	0.2175	0.0594	0.0578	0.0512	0.0478	0.0583	0.0574	0.0482	0.0351	0.0347	0.0274
10	0.0000	0.0601	0.0578	0.0569	0.0507	0.0478	0.0578	0.0570	0.0468	0.0349	0.0345	0.0274
11	0.0000	0.0603	0.0578	0.0574	0.0502	0.0478	0.0578	0.0575	0.0484	0.0349	0.0344	0.0275
12	0.0000	0.0629	0.0579	0.0584	0.0496	0.0478	0.0578	0.0565	0.0506	0.0348	0.0343	0.0273
13	0.0000	0.0623	0.0578	0.0581	0.0492	0.0480	0.0578	0.0569	0.0515	0.0347	0.0336	0.0272
14	0.0000	0.0598	0.0578	0.0584	0.0487	0.0488	0.0578	0.0572	0.0552	0.0345	0.0331	0.0257
15	0.0000	0.0603	0.0578	0.0586	0.0482	0.0493	0.0578	0.0606	0.0564	0.0343	0.0338	0.0251
16	0.0000	0.0615	0.0578	0.0582	0.0477	0.0503	0.0579	0.0625	0.0594	0.0344	0.0336	0.0250
17	0.0000	0.0600	0.0578	0.0593	0.0472	0.0517	0.0582	0.0616	0.0565	0.0342	0.0333	0.0250
18	0.0000	0.0603	0.0579	0.0598	0.0470	0.0527	0.0579	0.0615	e0.0549	0.0338	0.0320	0.0249
19	0.0000	0.0605	0.0610	0.0600	0.0489	0.0526	0.0579	0.0623	e0.0532	0.0334	0.0319	0.0247
20	0.0250	0.0605	0.0576	0.0602	e0.0500	0.0527	0.0578	0.0588	e0.0516	0.0335	0.0314	0.0244
21	0.0544	0.0618	0.0578	0.0608	0.0466	0.0528	0.0580	0.0582	e0.0502	0.0331	0.0311	0.0244
22	0.0543	0.0605	0.0578	0.0602	0.0490	0.0527	0.0579	0.0564	e0.0490	0.0327	0.0311	0.0243
23	0.0549	0.0597	0.0579	0.0596	0.0482	0.0527	0.0579	0.0547	0.0476	0.0323	0.0310	0.0242
24	0.0544	0.0589	0.0578	0.0590	0.0472	0.0538	0.0579	0.0559	0.0466	0.0311	0.0298	0.0243
25	0.0527	0.0592	0.0576	0.0583	0.0482	0.0607	0.0580	0.0584	0.0457	0.0311	0.0280	0.0244
26	0.0528	0.0599	0.0576	0.0588	0.0475	0.0628	0.0578	0.0586	0.0426	0.0306	0.0290	0.0244
27	0.0532	0.0602	0.0578	0.0592	0.0470	0.0632	0.0580	0.0586	0.0392	0.0300	0.0297	0.0246
28	0.0530	0.0601	0.0578	0.0595	0.0466	0.0632	0.0583	0.0570	0.0381	0.0307	0.0312	0.0245
29	0.0526	0.0616	0.0578	0.0599	---	0.0622	0.0581	0.0582	0.0378	0.0310	0.0313	0.0244
30	0.0521	0.0589	0.0578	0.0603	---	0.0625	0.0587	0.0576	0.0375	0.0321	0.0293	0.0243
31	0.0518	---	0.0578	0.0595	---	0.0632	---	0.0583	---	0.0330	0.0283	---
Total	1.7489	2.4399	1.8054	1.8201	1.4131	1.6095	1.7358	1.8072	1.4543	1.0479	0.9952	0.7781
Mean	0.06	0.08	0.06	0.06	0.05	0.05	0.06	0.06	0.05	0.03	0.03	0.03
Max	0.2534	0.2682	0.0610	0.0608	0.0573	0.0632	0.0607	0.0625	0.0594	0.0375	0.0347	0.0285
Min	0.0000	0.0415	0.0576	0.0569	0.0466	0.0437	0.0548	0.0547	0.0375	0.0300	0.0280	0.0242
Ac-ft	3.5	4.8	3.6	3.6	2.8	3.2	3.4	3.6	2.9	2.1	2.0	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.05	0.03	0.02	0.02
Max	0.07	0.08	0.06	0.07	0.08	0.08	0.08	0.09	0.09	0.07	0.08	0.05
(WY)	(2006)	(2007)	(2000)	(2006)	(2000)	(2006)	(2000)	(2006)	(2006)	(2005)	(2005)	(2005)
Min	0.00	0.02	0.03	0.03	0.03	0.05	0.06	0.05	0.00	0.00	0.00	0.00
(WY)	(2003)	(2005)	(2005)	(2005)	(2004)	(2004)	(2007)	(2004)	(2004)	(2003)	(2002)	(2002)

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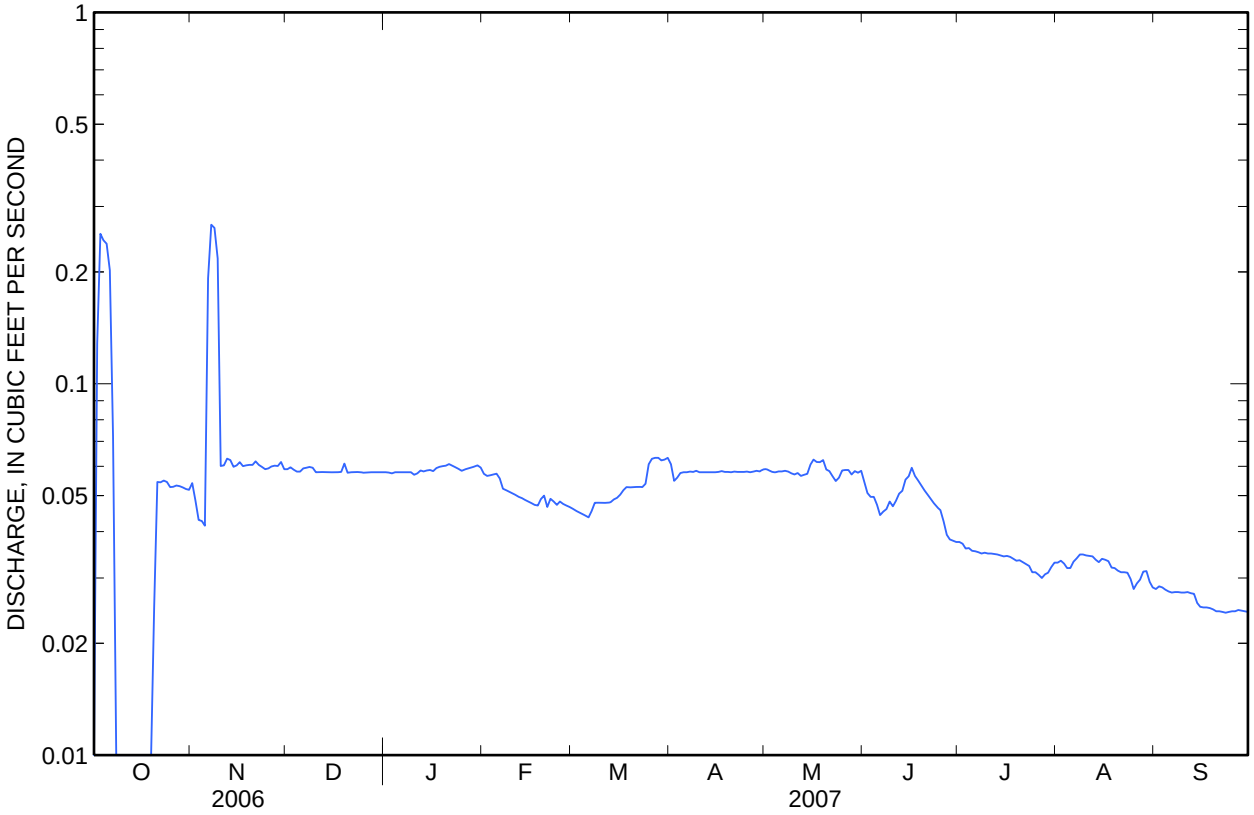
SUMMARY STATISTICS

	Water Year 2007	Water Years 2000 - 2007
Annual total	18.6554	
Annual mean	0.05	0.04
Highest annual mean		0.05 2007
Lowest annual mean		0.03 2004
Highest daily mean	0.2682 Nov 7	0.3514 Sep 17, 2005
Lowest daily mean	0.0000 Oct 1	0.0000 Sep 7, 2000
Annual seven-day minimum	0.0000 Oct 8	0.0000 Aug 3, 2001
Annual runoff (ac-ft)	37	29
10 percent exceeds	0.0603	0.0709
50 percent exceeds	0.0528	0.0392
90 percent exceeds	0.0275	0.0000