KANAWHA RIVER BASIN

03176500 NEW RIVER AT GLEN LYN, VA

LOCATION.--Lat 37°22'22", long 80°51'39", Giles County, Hydrologic Unit 05050002, on right bank 90 ft upstream from bridge on U.S. Highway 460 at Glen Lyn, 0.3 mi upstream from East River, and 6.3 mi downstream from Wolf Creek.

DRAINAGE AREA.--3,768 mi^2.

PERIOD OF RECORD.--August 1927 to current year.

REVISED RECORDS.--WSP 758: Drainage area. WSP 1305: 1928(M), 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 1,490.11 ft above sea level. Aug. 11, 1927, to Oct. 16, 1934, on left bank opposite present site at same datum, and Oct. 17, 1934, to June 16, 1939, on left bank at site 200 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1939 by Claytor Reservoir (station 03169000) 55 mi upstream from station. Water withdrawn by American Electric Power at gage. U.S. Army Corps of Engineers satellite gage-height telemeter at station. Maximum discharge, 226,000 ft^3/s, from rating curve extended above 89,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum gage height, 2.10 ft, Sept. 8, 1930. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,700 ft^3/s, Apr. 20, gage height, 12.93 ft; minimum, 789 ft^3/s, Sept. 16, gage height, 2.49 ft; minimum daily, 868 ft^3/s, Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	2900	1080	2270	6920	7850	4890	8300	7720	3320	2150	962
2	1910	1440	1120	1140	9110	8090	6640	9210	6640	3530	2060	1000
3	1890	1280	1050	1830	11400	8810	6460	9570	7120	5080	2100	1160
4	1550	2730	1070	1190	15200	7220	8350	12600	6820	3560	2030	1670
5	1200	2670	1030	1420	25400	7030	6650	15000	9870	2510	1790	1380
6	1290	2670	1040	3400	24100	7250	4350	15300	8920	3070	1670	1310
7	1350	5390	1020	3210	18300	6090	8220	13100	4220	3070	1550	961
8	1270	5150	962	20300	15800	7420	7990	12500	6030	2930	1740	943
9	1320	1730	1050	35100	14800	7460	7440	15400	6040	2930	4990	870
10	1300	1530	1070	17500	12500	15900	10000	13800	5960	2890	3320	918
11	1280	1580	1100	11600	14300	14800	8880	15800	10700	2850	3020	1190
12	1180	1500	1150	6740	13100	9410	10500	18700	10700	2670	2670	1430
13	1230	1850	1120	5930	12600	9910	5060	16100	9430	2380	2580	950
14	1330	1530	1110	6660	13300	8790	7810	15100	6870	2540	2180	956
15	1480	1640	1100	7370	14200	5310	6080	12500	6120	2530	2530	942
16	1210	1860	1060	9520	10900	4180	6220	8720	7720	2500	2630	868
17	1110	5620	1030	8660	14200	6950	11900	7330	6890	2320	9520	884
18	1100	2930	1020	8170	32800	7310	19300	7770	6280	2520	6620	905
19	1120	1660	1010	4450	30200	13200	20300	6330	5530	2480	4160	1590
20	1150	1430	1020	7120	19900	19200	48700	6030	5580	2170	2760	1520
21	1240	1450	1030	5690	17200	43300	31900	5760	5230	1930	2360	930
22	1600	1670	1090	4480	16100	30000	19500	5750	4920	1870	2070	1030
23	1180	1880	1120	9450	15700	19400	16600	7030	4480	2100	1810	1610
24	1610	1850	1160	4990	14000	16400	12400	10100	3250	2000	1970	1730
25	1260	1260	1270	6220	12300	12700	11500	13500	3820	2050	1940	1130
26	1170	1100	1260	6760	10500	10900	10500	10700	4390	2280	2800	1150
27	1950	1060	1780	9010	9910	9700	7060	10600	4400	1960	1700	1090
28	1790	990	2670	8990	9950	8630	8710	15500	3620	2440	1580	941
29	2250	1070	2380	9350	---	7810	7000	13100	3550	2500	1530	870
30	1980	1050	2760	8980	---	5860	6900	9340	3270	2400	1010	934
31	1860	---	2720	8580	---	8540	---	7300	---	2260	916	---
TOTAL	44960	62470	40452	246080	434690	355420	347810	347840	186090	81640	81756	33824
MEAN	1450	2082	1305	7938	15520	11470	11590	11220	6203	2634	2637	1127
MAX	2250	5620	2760	35100	32800	43300	48700	18700	10700	5080	9520	1730
MIN	1100	990	962	1140	6920	4180	4350	5750	3250	1870	916	868
(†)	-1613	-11495	+11999	-1109	-50	+706	+302	+1109	+151	-302	-151	+454
(‡)	13593	10043	13430	12849	9022	13522	12812	12950	12976	16585	16745	16042
MEAN≠	1837	2034	2125	8317	15845	11924	12031	11674	6641	3159	3173	1677
CFSM≠	.49	.54	.56	2.21	4.21	3.16	3.19	3.10	1.76	.84	.84	.45
IN.≠	.56	.60	.65	2.55	4.38	3.65	3.56	3.57	1.97	.97	.97	.50

CAL YR 1997	TOTAL	1521313	MEAN	4168	MAX	25800	MIN	885	MEAN≠	4584	CFSM≠ 1.22	IN.≠ 16.52
WTR YR 1998	TOTAL	2263032	MEAN	6200	MAX	48700	MIN	868	MEAN≠	6640	CFSM≠ 1.76	IN.≠ 23.93

† Total change in contents, equivalent in cubic feet per second, per month, in Claytor Reservoir; provided by American Electric Power.
‡ Total water withdrawal, equivalent in cubic feet per second, per month, by power plant; provided by American Electric Power.
≠ Adjusted for monthly change in contents and water withdrawal.

03176500 NEW RIVER AT GLEN LYN, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1938, BY WATER YEAR (WY) [UNREGULATED]

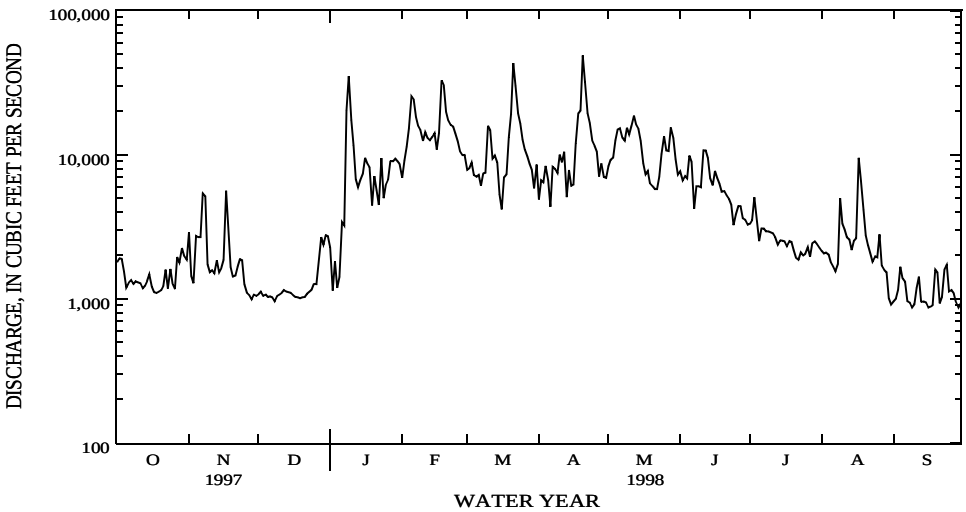
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4319	4112	4543	6919	6141	7665	7007	5225	3920	3322	3436	3343
MAX	11250	9016	7798	13770	10980	13050	11390	7093	8351	7956	8211	10840
(WY)	1938	1930	1928	1937	1936	1936	1936	1933	1929	1938	1928	1928
MIN	1094	1249	1685	1795	1494	3307	3899	2491	1908	1206	1330	1145
(WY)	1931	1932	1934	1934	1934	1931	1930	1934	1930	1930	1930	1932

SUMMARY STATISTICS	WATER YEARS 1928 - 1938	
ANNUAL MEAN	4992	
HIGHEST ANNUAL MEAN	6859	1935
LOWEST ANNUAL MEAN	3208	1934
HIGHEST DAILY MEAN	57600	Oct 3 1929
LOWEST DAILY MEAN	820	Sep 8 1930
ANNUAL SEVEN-DAY MINIMUM	914	Sep 17 1932
INSTANTANEOUS PEAK FLOW	99000	Oct 3 1929
INSTANTANEOUS PEAK STAGE	16.75	Oct 3 1929
INSTANTANEOUS LOW FLOW	770	Sep 8 1930
ANNUAL RUNOFF (CFSM)	1.32	
ANNUAL RUNOFF (INCHES)	17.99	
10 PERCENT EXCEEDS	9340	
50 PERCENT EXCEEDS	3800	
90 PERCENT EXCEEDS	1520	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1998, BY WATER YEAR (WY) [REGULATED, UNADJUSTED]

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3228	3761	4724	6016	7565	8485	7486	6020	4517	3285	3199	2861
MAX	9882	12450	10910	13290	15810	18650	20890	11270	12860	9784	16410	11500
(WY)	1990	1978	1949	1996	1957	1993	1987	1984	1992	1949	1940	1989
MIN	1204	1258	1305	1489	3304	2407	2673	2397	1741	1390	1267	1127
(WY)	1989	1982	1998	1966	1941	1988	1986	1941	1988	1988	1981	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1939 - 1998	
ANNUAL TOTAL	1521313		2263032			
ANNUAL MEAN	4168		6200		5082	
HIGHEST ANNUAL MEAN					7424	1949
LOWEST ANNUAL MEAN					2626	1988
HIGHEST DAILY MEAN	25800	Mar 4	48700	Apr 20	126000	Aug 15 1940
LOWEST DAILY MEAN	885	Aug 28	868	Sep 16	787	Jul 8 1988
ANNUAL SEVEN-DAY MINIMUM	1030	Dec 3	991	Sep 12	837	Jul 5 1988
INSTANTANEOUS PEAK FLOW			56700	Apr 20	226000	Aug 14 1940
INSTANTANEOUS PEAK STAGE			12.93	Apr 20	27.50	Aug 14 1940
INSTANTANEOUS LOW FLOW			789	Sep 16	697	Jul 5 1988
ANNUAL RUNOFF (CFSM)	1.11		1.65		1.35	
ANNUAL RUNOFF (INCHES)	15.02		22.34		18.32	
10 PERCENT EXCEEDS	9020		14500		9760	
50 PERCENT EXCEEDS	2870		3400		3710	
90 PERCENT EXCEEDS	1120		1070		1560	



NATIONAL WATER-QUALITY ASSESSMENT PROGRAM
KANAWHA-NEW RIVER BASIN
SURFACE-WATER QUALITY

03176500 NEW RIVER AT GLEN LYN, VA

LOCATION.--Lat 37°22'22", long 80°51'39", Giles County, Hydrologic Unit 05050002, on right bank 90 ft upstream from bridge on U.S. Highway 460 at Glen Lyn, 0.3 mi upstream from East River, and 6.3 mi downstream from Wolf Creek.

DRAINAGE AREA.--3,768 mi^2.

REMARKS.--Analyzed for pesticide schedules A and B, only detected compounds reported.

PERIOD OF RECORD.--Water years 1931, 1950, 1952, 1955-56, 1965-1995, 1997-98, discontinued.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1968 to September 1988.
WATER TEMPERATURE: October 1964 to September 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
OCT 1997												
06...	0930	2.83	1360	192	8.2	20.0	19.9	728	8.1	93	K7	20
NOV												
12...	1145	3.04	1780	189	8.0	8.5	9.5	724	10.4	96	--	K3
DEC												
08...	1200	2.58	995	234	8.5	5.5	3.3	725	13.6	107	K1	K3
JAN 1998												
05...	1115	2.88	1450	193	8.0	9.0	4.6	727	10.4	84	24	K18
08...	1515	8.50	24800	111	7.5	11.5	8.9	702	9.3	87	>600	>800
FEB												
06...	1145	8.31	23700	116	7.4	7.5	4.4	715	12.2	100	430	390
19...	1200	9.24	29200	107	7.4	11.5	5.8	715	11.4	97	250	K120
26...	1245	5.30	8830	112	7.6	12.0	7.1	722	10.2	89	83	K41
MAR												
24...	0945	6.86	16200	116	7.6	7.0	6.4	724	9.2	79	73	93
APR												
22...	0845	7.64	20200	122	7.3	15.5	12.6	719	9.6	96	1000	770
30...	1015	4.66	6080	129	7.9	19.5	14.4	722	8.7	90	43	K18
MAY												
13...	0845	6.82	16000	115	7.6	15.5	15.4	721	7.9	84	220	200
JUN												
09...	0845	4.78	6560	140	7.9	15.5	18.8	715	9.3	106	120	160
JUL												
16...	1000	3.51	2700	159	8.1	26.0	25.4	720	8.3	108	K63	K45
AUG												
05...	0915	3.13	1950	167	8.6	21.5	24.3	726	8.5	107	16	45
SEP												
08...	0845	2.51	910	188	8.3	21.0	23.7	715	8.0	101	23	26

K Results based on colony count outside the acceptance range (non-ideal colony count).

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03176500 NEW RIVER AT GLEN LYN, VA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 1997												
06...	78	18	17	8.5	6.5	15	.3	1.9	73	<1	60	20
NOV												
12...	76	17	17	8.1	6.8	16	.3	1.9	72	<1	60	20
DEC												
08...	92	29	22	9.1	8.3	16	.4	2.0	78	<1	65	32
JAN 1998												
05...	77	13	17	8.1	7.5	17	.4	1.6	78	<1	64	18
08...	49	9	13	4.1	4.8	17	.3	1.8	49	<1	40	10
FEB												
06...	42	5	11	3.7	4.4	18	.3	1.5	45	<1	37	8.1
19...	42	7	11	3.8	4.0	16	.3	1.3	43	<1	35	6.8
26...	46	11	11	4.1	3.6	14	.2	1.3	42	<1	35	7.7
MAR												
24...	49	9	12	4.3	3.2	12	.2	1.1	48	<1	42	6.6
APR												
22...	52	5	13	4.5	3.1	11	.2	1.2	56	<1	46	6.8
30...	56	9	14	5.1	3.2	11	.2	1.4	57	<1	47	8.6
MAY												
13...	49	7	13	4.4	2.9	11	.2	1.2	52	<1	43	5.7
JUN												
09...	55	7	13	5.4	3.3	11	.2	1.3	59	<1	49	8.1
JUL												
16...	64	13	15	6.6	3.9	11	.2	1.5	63	<1	52	9.8
AUG												
05...	68	15	15	7.2	4.9	13	.3	1.5	65	<1	53	12
SEP												
08...	76	16	17	8.0	5.5	13	.3	1.8	73	<1	60	16

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 1997												
06...	6.3	.11	4.9	114	104	.16	417	<.010	.581	<.015	.21	<.20
NOV												
12...	6.1	.12	6.3	117	105	.16	561	.014	.810	<.020	.15	.13
DEC												
08...	6.9	<.10	3.8	133	129	.18	357	<.010	1.51	<.020	<.10	<.10
JAN 1998												
05...	9.0	<.10	3.7	109	106	.15	427	<.010	.419	<.020	.12	<.10
08...	5.9	<.10	5.5	77	71	.10	5160	<.010	.543	<.020	1.2	.15
FEB												
06...	6.8	<.10	6.7	71	68	.10	4550	<.010	.811	.066	.36	.17
19...	6.4	<.10	6.9	67	64	.09	5280	<.010	.682	.027	.25	.13
26...	5.4	<.10	6.6	76	64	.10	1810	<.010	.724	.038	.18	<.10
MAR												
24...	4.7	<.10	7.0	70	66	.10	3060	.015	.749	<.020	.14	<.10
APR												
22...	3.9	<.10	6.9	73	70	.10	3980	.012	.627	.067	.28	.13
30...	4.8	<.10	6.6	81	75	.11	1330	.026	.717	.038	.16	.14
MAY												
13...	4.0	<.10	7.3	66	66	.09	2850	.011	.585	.036	.19	.12
JUN												
09...	4.3	<.10	7.1	81	75	.11	1430	.010	.603	.026	.14	.12
JUL												
16...	4.6	<.10	6.8	92	82	.13	672	.010	.599	.020	.13	.15
AUG												
05...	6.8	<.10	6.8	92	88	.13	485	<.010	.361	.037	.22	.16
SEP												
08...	5.8	<.10	5.1	--	98	.13	241	<.010	.465	.033	.27	.19

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03176500 NEW RIVER AT GLEN LYN, VA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
OCT 1997												
06...	.79	--	<.050	<.050	.015	.05	11	<0.1	<0.1	21	<1	<1
NOV												
12...	.96	.94	<.050	E.043	.060	.18	7.6	<0.1	<0.1	31	<1	<1
DEC												
08...	--	--	E.031	<.050	.032	.10	11	<0.1	0.1	37	<1	<1
JAN 1998												
05...	.54	--	<.050	<.050	.020	.06	10	<0.1	<0.1	23	<1	<1
08...	1.7	.70	.296	<.050	.020	.06	22	--	--	47	--	--
FEB												
06...	1.2	.98	.067	<.050	.026	.08	--	--	--	46	--	--
19...	.93	.81	.055	<.050	.024	.07	18	--	--	36	--	--
26...	.91	--	<.050	<.050	.017	.05	14	<0.1	<0.1	21	1	<1
MAR												
24...	.89	--	<.050	<.050	<.010	--	16	<0.1	<0.1	34	1	<1
APR												
22...	.90	.76	E.030	<.050	.016	.05	20	--	--	41	--	--
30...	.87	.85	<.050	<.050	.022	.07	39	<0.1	--	60	<1	--
MAY												
13...	.77	.71	<.050	<.050	.015	.05	16	<0.1	<0.1	35	2	<1
JUN												
09...	.75	.73	<.050	<.050	.023	.07	10	<0.1	<0.1	35	<1	<1
JUL												
16...	.73	.75	<.050	<.050	.014	.04	13	<0.1	<0.1	16	<1	<1
AUG												
05...	.58	.52	<.050	<.050	.018	.06	16	<0.1	<0.1	23	<1	<1
SEP												
08...	.74	.65	.070	.050	.038	.12	35	<0.1	<0.1	17	<1	<1

E Estimated.

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03176500 NEW RIVER AT GLEN LYN, VA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE *(99111)
OCT 1997												
06...	3.0	1.7	<.20	.012	E.0058	.006	E.0054	.0082	3	11	48	1
NOV												
12...	5.9	1.6	--	.012	E.0141	.007	E.0040	.0091	1	4.8	56	1
DEC												
08...	<1.0	1.5	<.20	.009	E.0053	.006	<.0180	.0067	1	2.7	71	30
JAN 1998												
05...	5.7	1.5	.20	--	--	--	--	--	31	121	82	30
08...	<4.0	3.2	4.8	--	--	--	--	--	240	16100	80	1
FEB												
06...	4.5	4.1	.70	--	--	--	--	--	39	2500	66	1
19...	4.4	1.4	.90	--	--	--	--	--	39	3070	77	1
26...	7.7	1.5	.50	--	--	--	--	--	15	358	96	100
MAR												
24...	4.4	1.4	.70	--	--	--	--	--	16	700	79	1
APR												
22...	5.2	1.9	.60	--	--	--	--	--	19	1040	95	1
30...	14	1.9	.20	--	--	--	--	--	8	131	89	1
MAY												
13...	<4.0	1.4	.50	--	--	--	--	--	13	562	90	1
JUN												
09...	<4.0	1.5	.30	--	--	--	--	--	3	53	93	1
JUL												
16...	<4.0	1.7	.60	--	--	--	--	--	2	15	67	1
AUG												
05...	6.1	1.6	.50	--	--	--	--	--	3	16	40	1
SEP												
08...	<4.0	1.5	.40	--	--	--	--	--	5	12	36	1

E Estimated.
* The values listed under parameter code 99111 indicate the type of quality-assurance sample associated with each environmental sample, where 1 denotes none, 30 denotes a replicate sample, and 100 denotes more than one type of quality-assurance sample.