

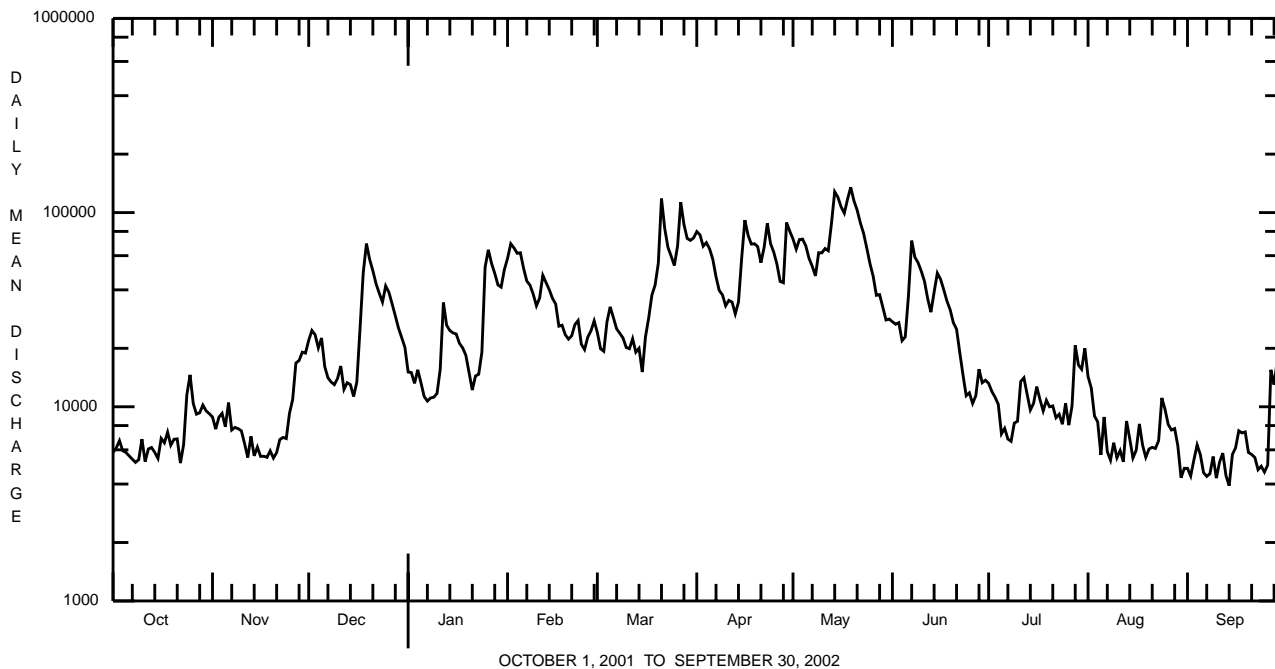


OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1934 - 2002	
ANNUAL TOTAL	8596580		10292020			
ANNUAL MEAN	23550		28200		33180	
HIGHEST ANNUAL MEAN					46520	1994
LOWEST ANNUAL MEAN					21110	1934
HIGHEST DAILY MEAN	105000	Feb 17	135000	May 19	465000	Mar 18 1936
LOWEST DAILY MEAN	4190	Sep 10	3920	Sep 14	2100	Sep 4 1957
ANNUAL SEVEN-DAY MINIMUM	5240	Sep 7	4810	Sep 8	2330	Sep 1 1957
MAXIMUM PEAK FLOW			142000	May 19	<sup>a</sup> 574000	Mar 18 1936
MAXIMUM PEAK STAGE			19.74	May 19	<sup>b</sup> 34.75	Mar 18 1936
INSTANTANEOUS LOW FLOW					1800	Sep 4 1957
ANNUAL RUNOFF (CFSM)	1.21		1.45		1.70	
ANNUAL RUNOFF (INCHES)	16.40		19.63		23.12	
10 PERCENT EXCEEDS	57700		67200		73700	
50 PERCENT EXCEEDS	14300		17300		22700	
90 PERCENT EXCEEDS	6130		5630		5960	

**a** From rating curve extended above 535,000 ft<sup>3</sup>/s.  
**b** From floodmarks in gage house, site and datum then in use.



OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued  
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 210-233.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)
APR 2002	09...	9813	37200	40	6.7	7.2	255	7.0	81	22.8	5.8	28	<.2
JUN	04...	9813	22100	40	9.3	7.6	305	20.1	96	26.8	7.0	36	<.2
AUG	01...	9813	14300	40	8.0	7.7	324	28.0	120	31.4	9.0	40	<.2

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA (MG/L AS N) (00610)	NITRO-GEN, NITRATE (MG/L AS N) (00620)	NITRO-GEN, NITRITE (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	CYANIDE AMEN-ABLE TO CHLOR-INATION UNFLTRD (MG/L) (00722)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)
APR 2002	54.0	176	18	.060	.72	<.040	1.0	.03	.040	2.3	<10	<1.00	620
JUN	59.5	206	14	<.020	.57	<.040	.86	.03	.030	2.8	<10	<1.00	560
AUG	89.4	270	4	.030	.53	<.040	.86	.01	.030	2.5	<10	1.24	270

Date	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)	GROSS BETA, WATER, UNFLT, (PCI/L) (85817)
APR 2002	<1.0	150	<50	<10	<5	--
JUN	1.2	160	<50	10	<5	2
AUG	<1.0	90	<50	20	<5	--

## OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued  
(National Stream-Quality Accounting Network Station)

REMARKS.--All water-quality samples were collected and analyzed by the U.S. Geological Survey. An explanation of selected abbreviations used in the water-quality tables is given on pages 40-41. Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Medium code	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)		
NOV 2001															
14...	1100	Q	--	--	<.004	<.004	--	--	--	--	--	<.01	.028		
15...	1045	9	6440	8.0	.074	.054	744	15.6	7.7	439	11.0	37.6	9.90		
DEC															
05...	1030	9	25500	12	.075	.056	747	16.3	7.6	346	10.0	30.1	8.07		
05...	1040	R	25500	14	.076	.057	747	16.3	7.6	346	10.0	30.2	8.06		
JAN 2002															
23...	1030	9	15700	5.0	.038	.027	--	13.9	7.3	332	3.0	30.5	7.88		
31...	1000	9	48700	32	.059	.044	740	13.1	7.4	293	4.0	23.1	5.78		
FEB															
26...	0930	9	25100	6.5	.043	.031	730	13.5	6.9	270	4.5	22.3	5.87		
MAR															
26...	0900	9	53900	48	.061	.046	738	12.6	7.6	276	5.5	23.4	5.99		
APR															
23...	0930	9	96800	46	.046	.034	747	10.7	7.5	210	13.5	19.1	4.95		
29...	0930	9	87500	54	.064	.048	739	10.4	7.5	214	13.0	19.0	4.85		
MAY															
29...	1030	9	33800	11	.052	.038	744	9.6	7.6	231	16.0	22.6	6.25		
29...	1040	R	33800	10	.051	.037	744	9.6	7.6	231	16.0	22.7	6.32		
JUN															
07...	1715	9	72200	37	.064	.048	746	9.4	7.6	290	21.0	27.2	7.26		
07...	1720	R	72200	--	--	--	746	9.4	7.6	290	21.0	--	--		
24...	1115	9	9940	6.8	.060	.044	747	9.1	7.4	281	23.0	27.1	7.54		
JUL															
16...	1030	9	14300	8.8	.054	.039	748	7.5	7.5	431	27.0	35.9	10.3		
SEP															
04...	1100	9	6350	7.2	.059	.042	744	7.2	7.1	413	26.0	34.0	9.48		
04...	1108	Q	--	--	<.004	<.004	--	--	--	--	--	E.01	<.008		
Date			POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00613)
NOV 2001															
14...	--	<.09	--	--	--	--	<.13	--	--	<.015	--	--	<.013	<.002	
15...	3.08	33.4	58	39.9	.2	3.18	95.0	260	.08	.34	.47	1.01	.042		
DEC															
05...	2.38	22.8	44	29.0	.1	4.13	75.4	214	.09	.32	.39	.76	.026		
05...	2.47	22.6	44	28.3	.1	4.04	75.6	210	.10	.32	.37	.76	.026		
JAN 2002															
23...	2.04	36.8	37	57.9	.1	4.91	73.0	254	.11	.27	.33	1.05	.024		
31...	1.83	19.7	34	29.9	.1	4.67	50.2	164	.11	.30	.43	.98	.011		
FEB															
26...	1.50	18.0	31	26.0	E.1	4.59	46.9	150	.09	.21	.25	.86	.014		
MAR															
26...	1.62	15.6	29	23.7	E.1	5.08	50.6	160	.06	.23	.39	.94	.008		
APR															
23...	1.48	11.1	26	11.6	<.1	4.47	47.6	124	E.04	.15	.40	.59	E.007		
29...	1.38	11.5	26	12.6	<.1	4.49	45.3	122	.04	.20	.49	.59	.012		
MAY															
29...	1.25	12.0	29	15.8	E.1	4.68	54.5	148	E.02	.18	.30	.58	.010		
29...	1.28	12.2	29	15.7	E.1	4.76	54.4	147	E.03	.18	.29	.60	.008		
JUN															
07...	1.70	16.7	36	18.1	E.1	4.46	65.2	186	.04	.23	.54	.62	.010		
07...	--	--	36	--	--	--	--	--	--	--	--	--	--	--	--
24...	1.87	15.7	30	18.3	E.1	3.61	65.5	193	<.04	.14	.25	.67	.015		
JUL															
16...	2.36	31.4	45	25.1	.1	4.22	110	266	<.04	.18	.38	.81	.019		
SEP															
04...	2.49	29.1	41	34.4	.2	1.83	90.7	241	<.04	.19	.41	.98	.026		
04...	<.01	<.09	--	.14	<.01	<.13	<.01	--	<.015	--	--	<.013	<.002		

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, PAR TICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (MG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (MG/L AS SB) (01095)	ARSENIC DIS- SOLVED (MG/L AS AS) (01000)	BARIUM, DIS- SOLVED (MG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (MG/L AS BE) (01010)
NOV 2001													
14...	<.02	--	<.007	--	<.1	<.1	<.3	<.1	<1	<.05	<.2	<1	<.06
15...	.13	.021	.013	.053	.8	<.1	2.9	.8	10	.12	.5	43	<.06
DEC													
05...	.09	.018	.010	.053	.8	<.1	2.8	.8	10	.08	.4	42	<.06
05...	.08	.018	.011	.054	1.0	<.1	2.8	1.0	10	.07	.4	42	<.06
JAN 2002													
23...	.06	.021	.011	.038	.4	<.1	3.4	.4	16	.07	.2	42	<.06
31...	.19	.012	.008	.076	1.5	<.1	2.2	1.5	17	.05	.3	33	<.06
FEB													
26...	.05	.008	E.005	.029	.4	<.1	1.6	.3	13	<.05	E.1	30	<.06
MAR													
26...	.17	.007	<.007	.078	2.1	<.1	2.3	2.1	22	.11	E.2	37	<.06
APR													
23...	1.37	.007	<.007	.108	18.8	<.1	1.8	18.7	18	.12	.3	32	<.06
29...	.83	.008	<.007	.120	9.6	.2	2.3	9.4	24	.10	.3	32	<.06
MAY													
29...	.11	.008	<.007	.045	1.0	<.1	1.9	1.0	26	.09	.3	40	<.06
29...	.14	.008	<.007	.046	1.0	<.1	2.0	.9	25	.08	.3	40	<.06
JUN													
07...	.22	.011	<.007	.112	2.7	<.1	2.1	2.7	30	.16	.4	41	<.06
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	.09	.007	<.007	.029	.7	<.1	2.4	.7	27	.11	.3	44	<.06
JUL													
16...	.16	.005	<.007	.038	.8	<.1	2.2	.8	22	.12	.4	50	<.06
SEP													
04...	.13	.012	E.004	.057	.8	<.1	2.9	.8	20	.16	.6	45	<.06
04...	<.02	--	<.007	--	<.1	<.1	E.2	<.1	--	--	<.2	--	--
Date	CADMIUM DIS- SOLVED (MG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (MG/L AS CR) (01030)	COBALT, DIS- SOLVED (MG/L AS CO) (01035)	COPPER, DIS- SOLVED (MG/L AS CU) (01040)	IRON, DIS- SOLVED (MG/L AS FE) (01046)	LEAD, DIS- SOLVED (MG/L AS PB) (01049)	LITHIUM DIS- SOLVED (MG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (MG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (MG/L AS MO) (01060)	NICKEL, DIS- SOLVED (MG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (MG/L AS SE) (01145)	SILVER, DIS- SOLVED (MG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (MG/L AS SR) (01080)
NOV 2001													
14...	<.04	<.8	<.02	<.2	<10	<.08	<.3	<.1	<.2	<.06	<.3	<1	E.06
15...	.04	<.8	.22	3.1	13	E.08	9.2	21.0	2.8	2.89	.5	<1	234
DEC													
05...	E.03	<.8	.23	1.9	39	.13	19.7	53.0	.9	2.83	E.3	<1	205
05...	<.04	<.8	.23	2.0	34	.12	20.3	53.4	.9	2.77	E.2	<1	210
JAN 2002													
23...	.04	<.8	1.35	1.6	44	.08	5.8	152	1.0	4.62	.4	<1	205
31...	E.03	<.8	.75	1.5	42	E.06	4.3	130	.7	2.85	E.3	<1	124
FEB													
26...	.04	<.8	.61	1.5	40	E.06	4.3	85.9	.5	3.10	E.2	<1	113
MAR													
26...	E.02	E.5	.84	1.5	39	.09	4.1	128	.6	3.21	E.3	<1	122
APR													
23...	E.03	<.8	.22	1.1	25	E.06	3.3	46.1	.4	2.02	<.3	<1	104
29...	<.04	<.8	.27	1.1	29	E.06	3.3	53.3	.7	1.80	.3	<1	101
MAY													
29...	E.02	<.8	.72	1.4	28	.09	5.5	151	.7	3.67	E.3	<1	119
29...	E.02	<.8	.70	1.5	24	.08	5.6	151	.6	3.72	.3	<1	119
JUN													
07...	.04	<.8	.19	1.8	25	E.07	5.6	45.9	1.3	2.40	E.3	<1	147
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	.06	<.8	.14	1.6	15	<.08	7.0	10.3	1.1	2.81	E.3	<1	161
JUL													
16...	.04	<.8	.14	1.8	E6	.09	9.0	2.3	1.8	1.20	.5	<1	252
SEP													
04...	.04	<.8	.17	2.7	<10	<.08	8.0	1.2	2.4	1.58	.5	<1	221
04...	--	--	--	--	<10	--	<.3	--	--	--	<.3	--	<.08

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	THAL- LIUM, DIS- SOLVED (µG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (µG/L AS V) (01085)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
NOV 2001				
14...	<.04	<.2	--	--
15...	--	E.2	100	8.0
DEC				
05...	--	E.1	86	19
05...	--	E.1	90	18
JAN 2002				
23...	--	.9	67	9.0
31...	--	.6	97	33
FEB				
26...	--	<.2	89	7.0
MAR				
26...	--	<.2	99	46
APR				
23...	--	.2	92	87
29...	--	.4	94	73
MAY				
29...	--	E.1	99	15
29...	--	E.2	96	16
JUN				
07...	--	.4	97	60
07...	--	--	--	--
24...	--	.5	97	8.0
JUL				
16...	--	.5	97	7.0
SEP				
04...	--	.4	97	8.0
04...	--	<.2	--	--

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

**REMARKS.**--The following data are for trace elements and other constituents that were part of the suspended sediment fraction of the water sample. Suspended sediments were dewatered using a continuous flow centrifuge, dried, and analyzed directly for total metals using a nitric, hydrofluoric, perchloric acid digestion. Whole water contributions by the suspended sediment were then calculated using the suspended-sediment concentration in kilograms per liter (kg/L) and the analyte concentration in milligrams per kilogram (mg/kg) from the direct analysis of the suspended sediments, resulting in micrograms per gram ( $\mu\text{G}/\text{G}$ ) concentrations. Values reported in percent are the percent of that constituent in the suspended sediment. When no trace element was detected in the sample, the default reporting value is the method detection limit preceded by a less-than sign (<).

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	NITRO- GEN, TOTAL, SEDI-MT SUSP, (WEIGHT PERCENT) (62845)	PHOS- PHORUS SEDI- MENT SUSP. PERCENT (30292)	CARBON SED. SUSP. PERCENT (30244)	CARBON, ORGANIC SUS- PENDE, TOTAL PERCENT (50465)	ALUM- INUM SED,SUS PERCENT (30221)	AN- TIMONY SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29816)	ARSENIC SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29818)	BARIIUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29820)	BERYL- LIUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29822)	CADMIUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29826)	CHRO- MIUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29829)	
NOV 2001														
15...	1045	6440	.61	.260	5.5	5.6	7.8	2.1	24	660	4	2.1	130	
DEC														
05...	1030	25500	.47	.230	5.2	5.2	8.3	1.7	27	720	4	2.6	120	
JAN 2002														
23...	1030	15700	--	.460	--	--	7.2	2.9	29	690	6	4.6	150	
31...	1000	48700	--	.180	4.4	4.2	9.3	1.6	20	660	4	1.9	100	
FEB														
26...	0930	25100	--	.260	--	--	8.2	1.8	27	680	5	2.2	110	
MAR														
26...	0900	53900	--	.130	3.8	3.6	10	1.3	19	630	4	1.5	97	
APR														
23...	0930	96800	.38	.130	5.9	5.6	7.8	2.1	20	560	4	1.6	110	
29...	0930	87500	.36	.140	5.5	5.3	8.1	1.3	18	560	4	1.4	100	
MAY														
29...	1030	33800	.49	.180	5.5	5.3	8.0	1.6	23	670	4	2.6	120	
JUN														
07...	1715	72200	.42	.150	4.9	4.6	7.8	1.4	19	580	4	1.6	130	
24...	1115	9940	.75	.240	6.3	6.0	7.1	1.5	20	610	4	2.2	130	
JUL														
16...	1030	14300	.67	.220	6.3	--	7.6	2.0	19	590	4	1.8	110	
SEP														
04...	1100	6350	.75	.240	6.1	--	7.0	2.9	14	580	3	1.5	120	
Date		COBALT SEDI- MENT SUSP. ( $\mu\text{G}/\text{G}$ ) (35031)	COPPER SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29832)	IRON SEDI- MENT SUSP. PERCENT (30269)	LEAD SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29836)	LITHIUM SEDI- MENT SUSP. ( $\mu\text{G}/\text{G}$ ) (35050)	MAN- GANESE SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29839)	MERCURY SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29841)	MOLYB- DENUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29843)	NICKEL SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29845)	SELE- NIUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29847)	SILVER SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29850)	STRON- TIUM SEDI- MENT SUSP. ( $\mu\text{G}/\text{G}$ ) (35040)	THAL- LIUM SUS SED ( $\mu\text{G}/\text{G}$ ) (49955)
NOV 2001														
15...	63	140	5.8	120	75	9600	.35	7	200	3	2	140	<50	
DEC														
05...	71	110	6.5	90	91	9300	.21	6	230	2	2	130	<50	
JAN 2002														
23...	270	130	8.0	100	67	24000	--	14	270	4	3	180	<120	
31...	79	62	5.9	67	76	6400	.15	4	120	2	<.5	160	<50	
FEB														
26...	130	92	6.5	79	75	10000	.22	5	150	3	<.5	130	<50	
MAR														
26...	57	53	5.9	54	87	4000	.15	3	88	2	M	150	<50	
APR														
23...	60	69	5.2	63	74	3500	.13	5	110	1	M	120	<50	
29...	52	65	5.2	62	76	3200	.09	4	100	1	M	130	<50	
MAY														
29...	100	120	5.6	110	85	11000	.21	5	240	2	1	120	<50	
JUN														
07...	59	72	5.0	76	79	4500	.13	5	140	1	M	120	<50	
24...	92	79	5.3	74	67	14000	.84	7	270	2	2	130	<50	
JUL														
16...	80	92	5.5	2.0	77	8900	.24	6	170	2	M	140	<50	
SEP														
04...	64	90	4.5	110	64	9800	--	7	150	1	M	130	<50	

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TITANIUM SEDI- MENT SUSP. PERCENT (30317)	VANADIUM SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29853)	ZINC SED. SUSP. ( $\mu\text{G}/\text{G}$ ) (29855)	URANIUM SEDI- MENT SUSP. ( $\mu\text{G}/\text{G}$ ) (35046)	SEDI- MENT SUSP., FLOW- THROUGH CENTRIF (MG/L) (50279)
NOV 2001					
15...	.410	110	640	<50	10
DEC					
05...	.440	120	530	<50	15
JAN 2002					
23...	.330	110	1400	<120	3
31...	.490	130	650	<50	33
FEB					
26...	.420	120	790	<50	6
MAR					
26...	.480	130	510	<50	49
APR					
23...	.470	100	520	<50	93
29...	.460	110	500	<50	82
MAY					
29...	.430	110	660	<50	16
JUN					
07...	.460	110	430	<50	64
24...	.390	100	540	<50	9
JUL					
16...	.410	100	530	<50	8
SEP					
04...	.380	100	430	<50	8



## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

**REMARKS.**--The following data are for analytes from the National Water Quality Laboratory (NWQL) schedule 2001-pesticides in filtered water. Samples are filtered through a glass-fiber membrane filter with openings that are 0.7 microns in size to remove sediment and microorganisms. The filtered samples are then sent to the NWQL where they are analyzed by gas chromatography/mass spectrometric detector.

A field-matrix spike containing the series of organic compounds used in the analytical schedule was added to the replicate sample collected on June 7 at 1720. Data from the spiked sample can be used to determine extraction and elution recoveries from the filtered water and to evaluate the accuracy and precision of the results.

The method detection limit (MDL) provides an index to indicate where measurement uncertainty is increased. When an analyte is detected and all criteria for a positive result are met, the concentration is reported. If the concentration is less than the MDL, an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the NWQL will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less-than sign (<). The abbreviations SRG, SURROGT, or SURROG indicate surrogate and recovery is reported in percent.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Medium code	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (82660)	ACETO-CHLOR, WATER FLTRD REC (49260)	ALA-CHLOR, WATER, DISS, REC (46342)	ALPHA BHC DIS-SOLVED (34253)	ATRA-ZINE, WATER, REC (39632)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (82673)	BUTYL-ATE, WATER, DISS, REC (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (82674)	CHLOR-PYRIFOS DIS-SOLVED REC (38933)	CYANA-ZINE, WATER, DISS, REC (04041)
NOV 2001													
14...	1100	Q	--	--	--	--	--	--	--	--	--	--	--
15...	1045	9	<.002	<.004	.009	<.005	.010	<.010	<.002	<.041	<.020	<.005	<.018
DEC 05...	1030	9	<.002	<.004	<.002	<.005	.008	<.010	<.002	<.041	<.020	<.005	<.018
05...	1040	R	--	--	--	--	--	--	--	--	--	--	--
JAN 2002													
23...	1030	9	<.006	<.006	<.004	<.005	.008	<.010	<.002	<.041	<.020	<.005	<.018
31...	1000	9	<.006	<.006	<.004	<.005	.012	<.010	<.002	<.041	<.020	<.005	<.018
FEB 26...	0930	9	<.006	<.006	<.004	<.005	.008	<.010	<.002	<.041	<.020	<.005	<.018
MAR 26...	0900	9	<.006	<.006	<.004	<.005	.008	<.010	<.002	<.041	<.020	<.005	<.018
APR 23...	0930	9	<.006	<.006	<.004	<.005	.008	<.010	<.002	E.007	<.020	<.005	<.018
29...	0930	9	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
MAY 29...	1030	9	<.006	<.006	<.004	<.005	.025	<.010	<.002	<.041	<.020	<.005	<.018
29...	1040	R	<.006	<.006	<.004	<.005	.025	<.010	<.002	<.041	<.020	E.004	<.018
JUN 07...	1715	9	<.006	<.009	<.004	<.005	.137	<.010	<.002	E.009	<.020	<.005	<.018
07...	1720	R	.113	.126	.105	.130	.257	.096	.119	E.171	E.144	.129	.148
24...	1115	9	<.006	.010	<.004	<.005	.153	<.010	<.002	<.041	<.020	<.005	<.018
JUL 16...	1030	9	<.006	E.005	<.004	<.005	.066	<.010	<.002	<.041	<.020	<.005	<.018
SEP 04...	1100	9	<.006	<.006	<.004	<.005	.052	<.010	<.002	<.041	<.020	<.005	<.018
04...	1108	Q	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
Date			DCPA WATER FLTRD 0.7 µ GF, REC (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 µ GF, REC (91063)	DI-AZINON, DIS-SOLVED (39572)	DI-ELDRIN, DIS-SOLVED (39381)	DISUL-FOTON WATER FLTRD 0.7 µ GF, REC (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 µ GF, REC (82663)	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (82672)	HCH ALPHA D6 SRG WAT FLT 0.7 µ GF, REC (04095)	LIN-URON WATER FLTRD 0.7 µ GF, REC (82666)
NOV 2001													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.003	E.004	107	<.005	<.005	<.02	<.002	<.009	<.005	<.003	86.6	<.004	<.035
DEC 05...	<.003	E.003	106	<.005	<.005	<.02	<.002	<.009	<.005	<.003	92.8	<.004	<.035
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 2002													
23...	<.003	E.005	99.0	<.005	<.005	<.02	<.002	<.009	<.005	<.003	95.8	<.004	<.035
31...	<.003	<.006	121	<.005	<.005	<.02	<.002	<.009	<.005	<.003	108	<.004	<.035
FEB 26...	<.003	E.004	108	<.005	<.005	<.02	<.002	<.009	<.005	<.003	99.0	<.004	<.035
MAR 26...	<.003	E.003	113	<.005	<.005	<.02	<.002	<.009	<.005	<.003	90.4	<.004	<.035
APR 23...	<.003	E.004	105	E.003	<.005	<.02	<.002	<.009	<.005	<.003	88.4	<.004	<.035
29...	<.003	<.006	149	<.005	<.005	<.02	<.002	<.009	<.005	<.003	112	<.004	<.035
MAY 29...	<.003	E.006	112	.006	<.005	<.02	<.002	<.009	<.005	<.003	107	<.004	<.035
29...	<.003	E.005	114	E.004	<.005	<.02	<.002	<.009	<.005	<.003	102	<.004	<.035
JUN 07...	<.003	E.013	114	<.009	<.005	<.02	<.002	<.009	<.005	<.003	103	<.004	<.035
07...	.120	E.072	113	.116	.110	.09	.109	.104	.112	.116	101	.118	.160
24...	<.003	E.016	97.2	E.004	<.005	<.02	<.002	<.009	<.005	<.003	96.2	<.004	<.035
JUL 16...	<.003	E.010	100	E.004	<.005	<.02	<.002	<.009	<.005	<.003	88.0	<.004	<.035
SEP 04...	<.003	E.012	103	.006	<.005	<.02	<.002	<.009	<.005	<.003	107	<.004	<.035
04...	<.003	<.006	109	<.005	<.005	<.02	<.002	<.009	<.005	<.003	106	<.004	<.035

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METHYL- AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (39532)	METHYL- PARA- THION WAT FLT 0.7 µ GF, REC (µG/L) (82667)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)	PARA- THION, DIS- SOLVED (µG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (µG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (µG/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF,REC (µG/L) (82664)	
NOV 2001													
14...	--	--	--	--	--	--	--	--	--	--	--	--	
15...	<.027	<.050	<.006	E.006	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
DEC													
05...	<.027	<.050	<.006	E.010	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 2002													
23...	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
31...	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
FEB													
26...	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
MAR													
26...	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
APR													
23...	<.027	<.050	<.006	E.009	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
29...	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
MAY													
29...	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
29...	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
JUN													
07...	<.027	<.050	<.006	.047	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
07...	.161	E.199	.134	.164	.110	.111	.136	.055	.139	.115	.137	.050	.082
24...	<.027	<.050	<.006	.040	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
JUL													
16...	<.027	<.050	<.006	.014	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
SEP													
04...	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003	<.010	<.007	<.022	<.006	<.011
04...	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011

Date	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µG/L) (82685)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
NOV 2001											
14...	--	--	--	--	--	--	--	--	--	--	--
15...	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.009
DEC											
05...	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.009
05...	--	--	--	--	--	--	--	--	--	--	--
JAN 2002											
23...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.009
31...	M	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.009
FEB											
26...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.009
MAR											
26...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.009
APR											
23...	E.01	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02	<.005	<.009
29...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.009
MAY											
29...	E.01	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02	<.005	<.009
29...	E.01	<.004	<.010	<.011	<.02	.009	<.02	<.034	<.02	<.005	<.009
JUN											
07...	E.01	<.004	<.010	<.011	<.02	.026	<.02	<.034	<.02	<.005	<.009
07...	.15	.121	.120	.135	.12	.097	.16	E.137	.11	.122	.096
24...	M	<.004	<.010	<.011	<.02	.014	<.02	<.034	<.02	<.005	<.009
JUL											
16...	E.01	<.004	<.010	<.011	<.02	.007	<.02	<.034	<.02	<.005	<.009
SEP											
04...	.02	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02	<.005	<.009
04...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.009