



**Figure 41.** Location of sites sampled for trace elements during elevated streamflow conditions in selected streams in New Jersey, water year 2005.

## TRACE-ELEMENTS AT ELEVATED STREAMFLOW IN SELECTED STREAMS OF NEW JERSEY (303-d)—Continued

The following tables contain water-quality data from a network of 37 surface water sites in New Jersey sampled for trace elements in filtered and unfiltered water during elevated streamflow conditions. The sampling network was established by the New Jersey Department of Environmental Protection (NJDEP) to add to the limited, outdated, and non-representative historical trace element data at these 37 sites. Previous trace element data historically were collected in late summer during base or low streamflow conditions. Concerns were that older data may not be representative of current conditions due to changes in land use in New Jersey and advances in equipment, cleaning and collection procedures, and analysis techniques that allow for more accurate data collection and reporting. Collection of trace element data in ambient surface water under elevated streamflow will address changes in land use, reflect advancements in sampling and analysis protocols, and augment missing historic data.

Station Number	Station Name	Latitude	Longitude	Drainage Area (Square Miles)
01378352	TENAKILL BROOK AT GRANT AVENUE AT CRESSKILL NJ	405644	0735755	3.29
01378410	DWARS KILL AT NORWOOD NJ	405900	0735729	3.23
01378475	DOROTOCKEYS RUN AT HARRINGTON PARK NJ	405914	0735829	4.10
01381200	ROCKAWAY RIVER AT PINE BROOK NJ	405129	0742052	136.00
01381500	WHIPPANY RIVER AT MORRISTOWN NJ	404826	0742725	29.4
01381800	WHIPPANY RIVER NEAR PINE BROOK NJ	405042	0742050	68.5
01382500	PEQUANNOCK RIVER AT MACOPIN INTAKE DAM NJ	410106	0742404	63.70
01387500	RAMAPO RIVER NEAR MAHWAH NJ	410553	0740946	120.00
01388600	POMPTON R AT PACKANACK LAKE NJ	405636	0741646	361.00
01393300	ELIZABETH RIVER ABOVE WEST BRANCH AT HILLSIDE NJ	404142	0741424	12
01393350	WEST BRANCH ELIZABETH RIVER NEAR UNION NJ	404132	0741437	2.53
01393450	ELIZABETH R AT URSINO LAKE AT ELIZABETH NJ	404030	0741319	16.90
01393690	MORSES CREEK AT WEST STIMSON AVENUE AT LINDEN NJ	403732	0741455	
01396030	SOUTH BRANCH RAHWAY RIVER AT COLONIA NJ	403457	0741803	9.31
01396280	SB RARITAN R AT MIDDLE VALLEY NJ	404540	0744917	47.70
01396535	SB RARITAN R ARCH ST AT HIGH BRIDGE NJ	403949	0745351	68.80
01396660	MULHOCKAWAY CREEK AT VAN SYCKEL NJ	403851	0745808	11.80
01396800	SPRUCE RUN AT CLINTON NJ	403824	0745456	41.30
01397400	SB RARITAN R AT THREE BRIDGES NJ	403101	0744809	181.00
01400834	MILLSTONE R AT PENNS NECK NJ	402019	0743746	99.90
01400883	STONY BROOK AT MINE ROAD AT GLENMOORE NJ	402226	0744739	15.6
01401440	MILLSTONE RIVER AT KINGSTON NJ	402224	0743714	172.00
01401520	BEDEN BROOK NR HOPEWELL NJ	402302	0744427	6.67
01401595	ROCK BROOK NEAR BLAWENBURG NJ	402447	0744104	9.03
01408500	TOMS RIVER NEAR TOMS RIVER NJ	395911	0741324	123.00
01410784	GREAT EGG HARBOR R NR SICKLERVILLE NJ	394401	0745704	15.10
01411000	GREAT EGG HARBOR RIVER AT FOLSOM NJ	393541	0745106	57.10
01411110	GREAT EGG HARBOR R AT WEYMOUTH NJ	393050	0744646	154.00
01411500	MAURICE RIVER AT NORMA NJ	392944	0750437	112.00
01411800	MAURICE R NR MILLVILLE NJ	392652	0750421	191.00
01445500	PEQUEST RIVER AT PEQUEST NJ	404950	0745840	106
01457000	MUSCONETCONG RIVER NEAR BLOOMSBURY NJ	404020	0750339	141
01464020	ASSUNPINK C AT PEACE ST AT TRENTON NJ	401302	0744607	91.40
01464500	CROSSWICKS CREEK AT EXTONVILLE NJ	400814	0743600	81.5
01464504	CROSSWICKS C AT GROVEVILLE RD AT GROVEVILLE NJ	401002	0744039	98.00
01465835	SB RANCOCAS C AT RETREAT	395523	0744304	44.10
01467000	NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ	395812	0744104	118

## TRACE-ELEMENTS AT ELEVATED STREAMFLOW IN SELECTED STREAMS OF NEW JERSEY (303-d)—Continued

## MULTIPLE STATION ANALYSES

Station number	Date	Time	Sample type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
01378352	06-17-05	0900	Field Blank	--	--	--	--	--	--	--	--	--
	06-17-05	0915	Environmental	4.2	754	1.2	12	7.2	509	20.1	17.1	170
01378410	09-15-05	1100	Field Blank	--	--	--	--	--	--	--	--	--
	09-15-05	1130	Environmental	4.1	762	6.8	76	7.8	648	26.0	21.1	250
01378475	06-30-05	1230	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	1300	Environmental	26	760	5.6	65	7.8	280	24.0	22.1	120
01381200	09-15-05	1430	Field Blank	--	--	--	--	--	--	--	--	--
	09-15-05	1445	Environmental	1.9	758	4.9	58	7.7	577	25.0	23.6	150
01381500	09-15-05	1030	Field Blank	--	--	--	--	--	--	--	--	--
	09-15-05	1100	Environmental	11	757	7.6	88	7.7	607	26.4	21.9	180
01381800	06-30-05	0955	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	1000	Environmental	28	757	5.1	62	7.3	435	27.0	24.3	110
01382500	06-30-05	0815	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	0830	Environmental	11	746	6.9	80	7.3	194	27.0	21.1	45
01387500	05-02-05	0700	Field Blank	--	--	--	--	--	--	--	--	--
	05-02-05	1029	Field Blank	--	--	--	--	--	--	--	--	--
	05-02-05	1030	Environmental	2.0	755	10.7	102	7.7	368	27.0	12.9	84
01388600	06-30-05	1015	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	1030	Environmental	4.9	752	6.8	83	7.7	469	25.7	24.4	110
01393300	06-28-05	0815	Field Blank	--	--	--	--	--	--	--	--	--
	06-28-05	0820	Field Blank	--	--	--	--	--	--	--	--	--
	06-28-05	0830	Environmental	5.2	764	4.8	54	7.5	518	25.5	21.2	150
01393350	07-06-05	0830	Field Blank	--	--	--	--	--	--	--	--	--
	07-06-05	0900	Environmental	3.3	755	4.0	48	7.2	323	25.6	23.1	110
01393450	08-15-05	1100	Environmental	10	761	3.5	43	7.1	270	27.5	24.5	81
01393690	08-15-05	0915	Field Blank	--	--	--	--	--	--	--	--	--
	08-15-05	0930	Environmental	4.3	762	4.3	51	7.5	438	24.5	24.1	170
01396030	06-28-05	1030	Field Blank	--	--	--	--	--	--	--	--	--
	06-28-05	1045	Environmental	8.8	764	6.0	71	7.6	479	28.5	23.2	120
01396280	06-30-05	1500	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	1515	Environmental	12	745	8.0	94	8.1	264	32.5	22.5	84
01396535	06-30-05	1514	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	1515	Environmental	26	750	8.0	95	7.9	194	25.0	23.5	65
01396660	06-28-05	0829	Field Blank	--	--	--	--	--	--	--	--	--
	06-28-05	0830	Environmental	3.6	756	8.6	95	7.7	291	18.5	19.6	89
01396800	05-03-05	1044	Field Blank	--	--	--	--	--	--	--	--	--
	05-03-05	1045	Environmental	4.6	758	9.9	94	7.9	205	10.0	13.0	59
01397400	07-26-05	1130	Field Blank	--	--	--	--	--	--	--	--	--
	07-26-05	1200	Environmental	4.1	756	7.6	96	8.2	270	35.8	26.8	89
01400834	05-03-05	1100	Field Blank	--	--	--	--	--	--	--	--	--
	05-03-05	1230	Field Blank	--	--	--	--	--	--	--	--	--
	05-03-05	1235	Environmental	12	762	8.3	81	6.9	207	14.0	14.4	40
01400883	06-30-05	0928	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	0929	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	0930	Environmental	66	755	6.7	78	7.2	151	20.0	22.4	40
01401440	05-03-05	1355	Field Blank	--	--	--	--	--	--	--	--	--
	05-03-05	1400	Environmental	15	762	9.3	93	7.0	219	14.0	15.3	45
01401520	06-28-05	0955	Field Blank	--	--	--	--	--	--	--	--	--
	06-28-05	1000	Environmental	7.3	761	7.9	92	7.4	221	28.0	23.0	70
01401595	06-28-05	0825	Field Blank	--	--	--	--	--	--	--	--	--
	06-28-05	0830	Environmental	41	760	6.8	79	7.4	181	26.0	22.7	56
01408500	07-14-05	0745	Field Blank	--	--	--	--	--	--	--	--	--
	07-14-05	0800	Environmental	4.5	757	6.8	78	5.8	84	25.5	21.5	11
01410784	07-18-05	1055	Field Blank	--	--	--	--	--	--	--	--	--
	07-18-05	1100	Environmental	8.5	759	5.0	58	5.8	73	32.5	23.1	13
01411000	07-18-05	0945	Field Blank	--	--	--	--	--	--	--	--	--
	07-18-05	1000	Environmental	3.0	760	7.2	81	5.5	79	25.4	21.2	12
01411110	07-18-05	0745	Field Blank	--	--	--	--	--	--	--	--	--
	07-18-05	0800	Environmental	3.7	760	7.3	85	5.7	68	27.4	22.6	11
01411500	05-24-05	0929	Field Blank	--	--	--	--	--	--	--	--	--
	05-24-05	0930	Environmental	1.2	751	7.4	75	6.4	100	14.0	15.4	20
01411800	05-24-05	1129	Field Blank	--	--	--	--	--	--	--	--	--
	05-24-05	1130	Environmental	1.8	752	8.0	80	6.6	133	15.5	15.2	26
01445500	05-02-05	0845	Field Blank	--	--	--	--	--	--	--	--	--
	05-02-05	0900	Environmental	4.4	753	10.1	94	8.3	503	13.0	11.5	220

## TRACE-ELEMENTS AT ELEVATED STREAMFLOW IN SELECTED STREAMS OF NEW JERSEY (303-d)—Continued

## MULTIPLE STATION ANALYSES—CONTINUED

Station number	Date	Calcium water, filtrd, mg/L (00915)	Magnesium, water, filtrd, mg/L (00925)	Arsenic water, filtrd, ug/L (01000)	Arsenic water unfiltrd ug/L (01002)	Cadmium water, filtrd, ug/L (01025)	Cadmium water, unfiltrd ug/L (01027)	Chromium, water, filtrd, ug/L (01030)	Chromium, water, unfiltrd recover- able, ug/L (01034)	Copper, water, filtrd, ug/L (01040)	Copper, water, unfiltrd recover- able, ug/L (01042)	Lead, water, filtrd, ug/L (01049)
01378352	06-17-05	<.02	<.008	<.2	--	<.04	--	<.8	--	<.4	--	<.08
	06-17-05	55.6	7.48	1.1	E2	<.04	E.03	E.4	E.5	2.4	3.5	.22
01378410	09-15-05	<.02	<.008	<.2	--	.04	--	.06	--	E.2	--	<.08
	09-15-05	76.2	15.5	1.1	.94	.06	.12	.21	.61	2.1	3.8	E.04
01378475	06-30-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	E.05
	06-30-05	36.9	7.04	1.6	E2	<.04	.04	E.5	1.5	3.6	6.3	.22
01381200	09-15-05	<.02	<.008	<.12	--	<.04	--	<.04	--	<.40	--	<.08
	09-15-05	36.7	14.2	.73	.67	.04	.06	.31	.53	2.3	3.2	.24
01381500	09-15-05	<.02	<.008	<.12	--	<.04	--	<.04	--	E.25	--	<.08
	09-15-05	45.5	15.7	.44	.60	.05	.07	.24	.81	3.2	5.2	.30
01381800	06-30-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	06-30-05	27.8	9.00	1.1	E1	<.04	.10	E.7	1.6	4.3	7.6	.49
01382500	06-30-05	E.01	<.008	<.2	--	<.04	--	<.8	--	<.4	--	<.08
	06-30-05	11.8	3.87	.4	<2	<.04	E.02	<.8	E.6	2.0	3.1	.23
01387500	05-02-05	--	--	--	<2	--	<.04	--	E.5	--	<.6	--
	05-02-05	<.02	<.008	<.2	--	<.04	--	E.6	--	E.3	--	<.08
	05-02-05	23.3	6.19	.3	<2	E.02	<.04	<.8	E.8	1.5	2.0	.12
01388600	06-30-05	E.01	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	06-30-05	30.9	8.68	.6	<2	<.04	<.04	<.8	E.5	1.5	2.5	.20
01393300	06-28-05	--	--	--	E1	--	<.04	--	<.8	--	<.6	--
	06-28-05	E.02	<.008	<.2	--	<.04	--	<.8	--	<.4	--	<.08
	06-28-05	46.8	7.43	.9	3	.07	.10	E.7	1.0	8.2	13.6	1.03
01393350	07-06-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	07-06-05	36.0	4.54	1.4	M	E.02	E.04	1.2	1.9	4.5	7.3	.82
01393450	08-15-05	26.7	3.48	1.4	E2	.16	.19	1.2	1.7	23.9	31.2	2.68
01393690	08-15-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	08-15-05	54.9	7.45	1.3	E1	.06	.08	E.4	E.7	7.6	10.0	1.28
01396030	06-28-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	.12
	06-28-05	37.5	7.27	1.1	E1	E.02	.05	E.5	E.5	5.2	7.8	E.22
01396280	06-30-05	<.02	<.008	<.2	--	<.04	--	<.8	--	<.4	--	<.08
	06-30-05	20.0	8.26	.5	<2	<.04	E.03	<.8	E.5	1.5	2.5	.15
01396535	06-30-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	E.05
	06-30-05	15.6	6.45	.4	<2	<.04	E.03	E.4	.8	1.7	3.0	.20
01396660	06-28-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	<.08
	06-28-05	23.1	7.63	.4	2	<.04	<.04	<.8	<.8	1.1	1.6	<.08
01396800	05-03-05	E.01	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	05-03-05	14.6	5.54	.2	<2	<.04	<.04	<.8	<.8	.7	.8	<.08
01397400	07-26-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	07-26-05	21.8	8.31	.6	<2	E.03	<.04	<.8	<.8	2.5	1.5	.20
01400834	05-03-05	--	--	--	<2	--	<.04	--	<.8	--	<.6	--
	05-03-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	<.08
	05-03-05	9.09	4.22	.7	E2	.06	.06	<.8	.8	3.8	2.9	.43
01400883	06-30-05	--	--	--	<2	--	<.04	--	<.8	--	<.6	--
	06-30-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.4	--	<.08
	06-30-05	9.32	3.95	.8	E1	<.04	E.03	<.8	1.8	2.6	4.8	.17
01401440	05-03-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	05-03-05	10.3	4.63	.7	E1	E.03	.06	<.8	.8	3.4	3.4	.24
01401520	06-28-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	06-28-05	17.5	6.40	1.2	3	<.04	E.02	<.8	E.5	3.6	4.1	.18
01401595	06-28-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	06-28-05	13.7	5.28	1.0	<2	<.04	E.04	<.8	1.0	4.1	4.7	.24
01408500	07-14-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	07-14-05	2.48	1.09	.5	E2	.05	.06	<.8	E.6	.8	1.3	.65
01410784	07-18-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	E.04
	07-18-05	3.28	1.18	.9	M	.07	.08	<.8	.9	2.2	2.4	2.10
01411000	07-18-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	<.08
	07-18-05	2.69	1.32	.6	<2	.05	.07	1.0	1.3	2.8	4.1	1.62
01411110	07-18-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	<.08
	07-18-05	2.35	1.25	.7	<2	E.04	.05	E.6	1.2	2.0	2.6	.84
01411500	05-24-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	.08
	05-24-05	4.13	2.35	1.5	E2	E.04	.04	<.8	E.5	.8	.8	.52
01411800	05-24-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	E.05
	05-24-05	5.58	2.93	1.7	3	E.04	.04	<.8	E.5	1.2	1.7	.33
01445500	05-02-05	<.02	<.008	<.2	--	<.04	--	<.8	--	<.4	--	<.08
	05-02-05	50.9	23.0	.6	<2	<.04	E.02	<.8	<.8	.7	1.2	E.04

## TRACE-ELEMENTS AT ELEVATED STREAMFLOW IN SELECTED STREAMS OF NEW JERSEY (303-d)—Continued

## MULTIPLE STATION ANALYSES—CONTINUED

Station number	Date	Lead, water, unfltrd recover- able, ug/L (01051)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover- able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)
01378352	06-17-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-17-05	2.46	<.01	<.01	3.37	2.14	E.3	.9	--	--	9.6	8
01378410	09-15-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	09-15-05	.85	<.01	<.01	3.47	2.07	.12	E.3	--	--	4.5	8
01378475	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	E.4	--
	06-30-05	5.40	<.01	<.01	2.82	3.58	.9	.9	--	--	2.3	9
01381200	09-15-05	--	<.01	--	<.06	--	<.08	--	--	--	E.30	--
	09-15-05	.55	<.01	<.01	4.08	4.00	.12	.5	--	--	12.8	14
01381500	09-15-05	--	<.01	--	<.06	--	<.08	--	--	--	E.32	--
	09-15-05	3.56	<.01	E.01	2.61	1.99	.14	E.3	--	--	13.0	20
01381800	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-30-05	8.42	<.01	.02	2.17	2.29	.6	.9	--	--	13.2	14
01382500	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-30-05	1.66	<.01	<.01	.86	.78	<.4	.7	--	--	2.2	4
01387500	05-02-05	E.04	--	<.01	--	<.16	--	E.4	--	--	--	<2
	05-02-05	--	<.01	--	<.06	--	<.4	--	--	--	E.3	--
	05-02-05	.38	<.01	<.01	.35	1.04	.5	E.5	--	--	3.3	4
01388600	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-30-05	1.67	<.01	.01	1.71	1.05	E.3	.5	--	--	1.9	5
01393300	06-28-05	<.06	--	<.01	--	<.16	--	E.4	--	--	--	<2
	06-28-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-28-05	4.22	<.01	E.01	3.73	3.24	.5	1.2	--	--	23.6	28
01393350	07-06-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	07-06-05	2.68	<.01	<.01	3.09	2.62	E.4	.4	--	--	11.3	14
01393450	08-15-05	10.0	<.01	.01	4.76	4.57	.8	1.3	--	--	57.7	70
01393690	08-15-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	08-15-05	3.03	<.01	E.01	4.61	4.11	.5	1.3	--	--	41.7	55
01396030	06-28-05	--	<.01	--	E.04	--	<.4	--	--	--	1.7	--
	06-28-05	1.66	<.01	<.01	2.54	2.25	E.4	.9	--	--	E5.0	9
01396280	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-30-05	1.32	<.01	<.01	.81	.75	E.3	E.2	--	--	1.4	16
01396535	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	E.4	--
	06-30-05	1.92	<.01	<.01	.69	.87	<.4	E.3	--	--	1.5	6
01396660	06-28-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-28-05	.26	<.01	<.01	1.07	.68	E.3	.6	--	--	1.5	E1
01396800	05-03-05	--	<.01	--	<.06	--	<.4	--	--	--	E.5	--
	05-03-05	.20	<.01	<.01	.93	.59	E.2	.5	--	--	1.0	<2
01397400	07-26-05	--	<.01	--	<.06	--	<.4	--	--	--	E.5	--
	07-26-05	.27	<.01	<.01	1.31	1.06	<.4	E.4	--	--	4.9	E2
01400834	05-03-05	<.06	--	<.01	--	<.16	--	.5	--	<.16	--	<2
	05-03-05	--	<.01	--	<.06	--	<.4	--	<.2	--	E.5	--
	05-03-05	1.36	<.01	<.01	2.97	2.66	E.3	E.8	<.2	<.16	18.6	13
01400883	06-30-05	<.06	--	<.01	--	<.16	--	E.3	--	--	--	<2
	06-30-05	--	<.01	--	<.06	--	<.4	--	--	--	E.3	--
	06-30-05	2.43	<.01	E.01	.89	1.86	E.3	.7	--	--	1.1	6
01401440	05-03-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	05-03-05	1.65	<.01	<.01	2.54	2.37	E.2	.8	--	--	15.0	11
01401520	06-28-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	06-28-05	.62	<.01	<.01	1.26	.92	E.4	.5	--	--	10.7	2
01401595	06-28-05	--	<.01	--	<.06	--	<.4	--	--	--	.6	--
	06-28-05	1.57	.02	.04	1.38	1.66	E.3	.5	--	--	12.2	5
01408500	07-14-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	07-14-05	1.62	<.01	.01	1.05	1.11	E.2	<.4	--	--	7.1	7
01410784	07-18-05	--	<.01	--	<.06	--	<.4	--	--	--	E.5	--
	07-18-05	3.56	.01	.02	1.59	1.61	E.2	<.4	--	--	12.2	12
01411000	07-18-05	--	<.01	--	<.06	--	<.4	--	--	--	E.4	--
	07-18-05	2.94	.01	.02	1.95	2.12	<.4	E.2	--	--	9.6	14
01411110	07-18-05	--	<.01	--	<.06	--	<.4	--	--	--	E.4	--
	07-18-05	1.72	E.01	.01	1.55	1.59	<.4	<.4	--	--	11.8	11
01411500	05-24-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	05-24-05	1.09	E.01	.02	2.53	2.23	E.2	E.4	--	--	6.2	6
01411800	05-24-05	--	<.01	--	<.06	--	<.4	--	--	--	<.6	--
	05-24-05	1.03	E.01	.02	2.25	1.94	E.3	E.2	--	--	7.5	6
01445500	05-02-05	--	<.01	--	<.06	--	E.2	--	--	--	<.6	--
	05-02-05	.35	<.01	<.01	<.06	1.45	.7	.7	--	--	1.9	2

TRACE-ELEMENTS AT ELEVATED STREAMFLOW IN SELECTED STREAMS OF NEW JERSEY (303-d)—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Date	Time	Sample type	Turbidity white light, det ang 90+/-30 corrtcd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
01457000	06-30-05	0930	Field Blank	--	--	--	--	--	--	--	--	--
	06-30-05	0945	Environmental	140	752	7.4	84	7.6	230	24.0	21.0	81
01464020	06-27-05	1330	Field Blank	--	--	--	--	--	--	--	--	--
	06-27-05	1400	Environmental	81	764	6.6	78	7.1	246	22.8	23.7	61
01464500	07-05-05	0845	Field Blank	--	--	--	--	--	--	--	--	--
	07-05-05	0900	Environmental	16	758	6.9	80	7.2	117	23.0	22.4	41
01464504	07-05-05	1045	Field Blank	--	--	--	--	--	--	--	--	--
	07-05-05	1100	Environmental	19	758	7.5	87	7.1	141	24.0	22.3	43
01465835	05-24-05	0800	Field Blank	--	--	--	--	--	--	--	--	--
	05-24-05	0815	Field Blank	--	--	--	--	--	--	--	--	--
	05-24-05	0830	Environmental	4.4	750	7.0	72	4.9	81	11.0	15.6	12
01467000	05-26-05	0900	Field Blank	--	--	--	--	--	--	--	--	--
	05-26-05	0930	Field Blank	--	--	--	--	--	--	--	--	--
	05-26-05	1000	Environmental	4.1	752	8.6	83	5.4	59	15.7	13.4	9

Station number	Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd, ug/L (01002)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd, ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover-able, ug/L (01034)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover-able, ug/L (01042)	Lead, water, fltrd, ug/L (01049)
01457000	06-30-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	E.06
	06-30-05	18.2	8.54	.5	<.2	.12	.07	E.6	1.9	35.3	5.7	11.2
01464020	06-27-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	06-27-05	13.1	6.87	.8	2	.05	.57	E.7	4.3	5.2	37.4	.49
01464500	07-05-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.3	--	E.04
	07-05-05	12.6	2.21	.6	E1	E.04	.08	E.5	1.1	1.9	2.9	.63
01464504	07-05-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	07-05-05	12.7	2.71	.7	E1	E.02	.07	E.4	1.1	2.0	2.8	.44
01465835	05-24-05	--	--	--	<.2	<.04	<.04	<.8	<.8	--	<.6	<.08
	05-24-05	<.02	<.008	<.2	--	<.04	--	<.8	--	.5	--	<.08
	05-24-05	2.61	1.26	.7	<.2	.09	.09	E.5	1.1	E1.2	1.6	1.02
01467000	05-26-05	--	--	--	<.2	--	<.04	--	<.8	--	<.6	--
	05-26-05	<.02	<.008	<.2	--	<.04	--	<.8	--	E.2	--	<.08
	05-26-05	2.06	.893	.3	<.2	.06	.06	<.8	E.4	1.4	2.2	.67

Station number	Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover-able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd, ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)
01457000	06-30-05	--	<.01	--	<.06	--	E.2	--	--	--	<.6	--
	06-30-05	5.83	<.01	.02	1.69	2.59	E.4	.8	--	--	49.0	18
01464020	06-27-05	--	<.01	--	<.06	--	<.4	--	<.2	--	E.4	--
	06-27-05	51.3	<.01	.06	1.95	5.84	E.2	.7	<.2	.46	12.6	109
01464500	07-05-05	--	<.01	--	<.06	--	<.4	--	--	--	E.3	--
	07-05-05	3.32	<.01	<.01	2.33	2.91	<.4	E.3	--	--	3.9	10
01464504	07-05-05	--	<.01	--	<.06	--	E.2	--	--	--	<.6	--
	07-05-05	3.10	<.01	<.01	2.71	3.45	<.4	E.3	--	--	4.5	9
01465835	05-24-05	<.06	--	<.01	--	<.16	--	<.4	--	--	--	<.2
	05-24-05	--	<.01	--	<.06	--	<.4	--	--	--	.6	--
	05-24-05	1.19	<.01	<.01	1.43	1.26	E.3	E.2	--	--	11.1	10
01467000	05-26-05	E.03	--	<.01	--	<.16	--	E.2	--	--	--	<.2
	05-26-05	--	<.01	--	<.06	--	<.4	--	--	--	E.5	--
	05-26-05	3.71	<.01	<.01	1.19	1.01	<.4	E.5	--	--	10.7	11

Remark codes used in this table:

<-- Less than.

E-- Estimated.

M-- Presence verified but not quantified.