0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY

Southeastern Lake Ontario Basin
Irondequoit-Ninemile Subbasin

LOCATION.--Lat 43°08′42″, long 77°30′44″ referenced to North American Datum of 1927, Monroe County, NY, Hydrologic Unit 04140101, on right bank 4,000 ft upstream from bridge on Blossom Road, 1.8 mi east of Rochester, 1.7 mi downstream from Allen Creek, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2 of which 7.78 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements water years 1977-80. December 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.87 ft above NGVD of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1991, at site 0.8 mi downstream at datum 1.56 ft lower.

COOPERATION.--Discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Discharge includes undetermined diversion from Erie (Barge) Canal. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,300 ft^3/s, Jan. 8, 1998, gage height, 9.95 ft; minimum discharge, 25 ft^3/s, Sept. 8, 9, 10, 14, 2002, gage height, 2.14 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	2230	960	8.31
Feb 6	1315	*2,070	*9.31
Mar 20	0630	1,190	8.59

Minimum discharge, 35 ft^3/s, Oct. 18, 19, gage height, 2.23 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	46	60	122	206	124	e115	599	116	78	82	71	58
2	47	54	114	198	180	120	402	114	71	66	72	56
3	45	51	364	158	154	306	274	149	68	79	74	55
4	44	49	306	151	139	563	238	234	66	91	62	52
5	45	49	215	145	640	352	230	156	67	68	69	50
6	50	71	166	168	1,550	271	203	123	70	58	204	51
7	108	75	152	226	1,020	292	181	122	66	54	113	53
8	63	62	139	232	e425	244	167	159	62	50	156	50
9	69	56	133	231	e295	206	157	124	61	51	165	65
10	51	54	127	200	e220	e190	148	110	75	51	205	56
11	45	52	149	353	e200	e180	245	101	87	48	194	50
12	48	51	380	296	e180	e180	445	97	63	48	139	80
13	45	51	322	222	164	177	344	95	58	66	97	110
14	46	50	232	200	152	212	248	93	102	97	91	158
15	43	126	185	188	145	349	195	93	94	64	89	80
16	43	89	156	171	135	407	167	102	115	53	73	64
17	48	66	148	158	143	310	153	94	105	64	67	57
18	41	54	143	160	497	302	144	91	81	56	62	52
19	37	52	137	146	e300	637	139	97	76	48	90	50
20	41	136	139	116	e200	1,020	138	86	74	79	82	49
21	40	196	138	113	159	625	132	80	73	128	69	49
22	37	655	136	110	145	404	126	78	83	107	63	52
23	159	e320	439	105	136	312	126	78	79	237	60	51
24	123	e220	834	101	129	262	118	73	71	184	58	49
25	86	e190	509	99	129	221	105	70	63	159	59	48
26	65	e200	280	97	138	238	138	69	62	104	56	48
27	63	354	235	97	138	262	151	70	58	80	56	51
28	70	237	227	97	e110	300	165	67	65	72	56	66
29	86	167	257	102	e95	276	151	66	84	69	65	66
30	93	138	238	119	---	240	126	66	130	61	67	58
31	71	---	214	101	---	492	---	76	---	86	60	---
Total	1,898	3,985	7,336	5,066	8,042	10,065	6,155	3,149	2,307	2,560	2,844	1,834
Mean	61.2	133	237	163	277	325	205	102	76.9	82.6	91.7	61.1
Max	159	655	834	353	1,550	1,020	599	234	130	237	205	158
Min	37	49	114	97	95	115	105	66	58	48	56	48
Cfsm	0.46	0.99	1.76	1.22	2.07	2.42	1.53	0.76	0.57	0.62	0.68	0.46
In.	0.53	1.10	2.03	1.40	2.23	2.79	1.71	0.87	0.64	0.71	0.79	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	89.3	121	148	148	172	233	232	146	97.5	80.4	78.4	81.3
Max	204	224	253	446	347	400	468	292	186	217	253	305
(WY)	(2007)	(1986)	(1997)	(1998)	(1981)	(2007)	(1993)	(1984)	(1989)	(2006)	(1992)	(2004)
Min	39.5	52.3	49.5	60.8	67.1	122	82.8	62.1	46.9	42.2	35.8	39.8
(WY)	(1983)	(2002)	(1990)	(1989)	(1989)	(1988)	(1995)	(1995)	(1988)	(1983)	(2002)	(1995)

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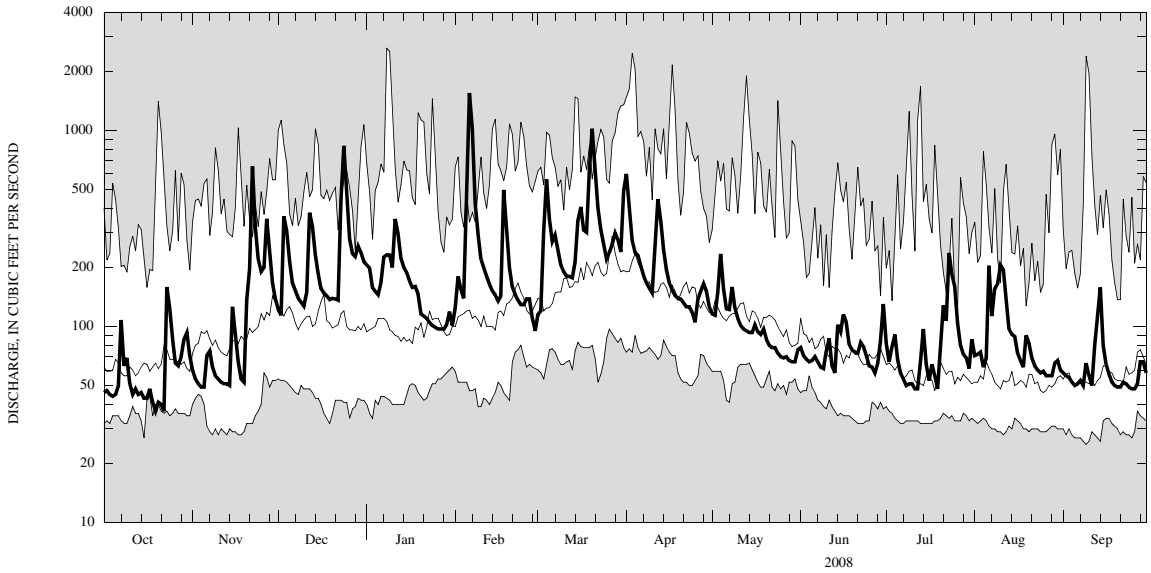
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1981 - 2008	
Annual total	57,822		55,241			
Annual mean	158		151		136	
Highest annual mean					183	2004
Lowest annual mean					80.1	1995
Highest daily mean	2,160	Apr 17	1,550	Feb 6	2,620	Jan 8, 1998
Lowest daily mean	37	Oct 19	37	Oct 19	25	Sep 9, 2002
Annual seven-day minimum	41	Oct 16	41	Oct 16	27	Sep 4, 2002
Annual runoff (cfsm)	1.18		1.12		1.01	
Annual runoff (inches)	16.03		15.31		13.78	
10 percent exceeds	316		295		265	
50 percent exceeds	89		106		91	
90 percent exceeds	47		51		45	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980-81, 1983 to current year.
CHEMICAL DATA: Water years 1980-81 (e), 1983 to 2005 (e), 2006-08 (d).
NUTRIENT DATA: Water years 1980-81 (e), 1983 to 2005 (e), 2006-08 (d).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1994 to September 2001 and October 2004 to current year.

INSTRUMENTATION.--Automatic water sampler since October 1983. Water temperature recorder since November 1994 provides 15-minute-interval readings.

REMARKS.--Records for October 1983 to September 1993 are published in "Water Resources of Monroe County New York, Water Years 1984-88", U.S. Geological Survey Open-File Report 93-370 and in "Water Resources of Monroe County New York, Water Years 1989-93", U.S. Geological Survey Open-File Report 97-587. Prior to October 1983, unpublished records are available in the files of the U.S. Geological Survey.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.0°C, Jul. 5, 6, 1999; minimum 0.0°C, on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C, June 9; minimum 0.0°C, on several days during winter period.

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	16.5	14.5	15.5	12.0	10.5	11.5	3.5	1.5	2.5	3.5	3.0	3.0
2	16.0	15.0	15.5	11.0	9.5	10.0	2.5	0.5	1.5	3.0	1.0	1.5
3	17.0	15.0	16.0	9.5	8.0	9.0	3.0	1.5	2.5	1.0	0.0	0.5
4	17.5	15.5	16.5	9.5	8.0	9.0	1.5	0.5	1.0	1.5	0.0	1.0
5	17.5	15.0	16.5	9.0	7.5	8.0	1.5	1.0	1.0	2.5	0.5	1.5
6	18.0	16.5	17.0	8.5	8.0	8.5	1.5	0.5	1.0	3.5	2.5	3.0
7	18.5	17.0	18.0	8.0	7.0	7.5	2.5	1.0	1.5	6.0	3.5	5.0
8	19.5	16.5	17.5	7.0	6.0	6.5	3.5	2.5	3.0	7.5	6.0	6.5
9	19.0	17.5	18.5	7.0	6.0	6.5	3.0	2.5	2.5	8.0	6.0	7.5
10	17.5	15.5	16.5	7.0	6.0	7.0	3.0	2.5	2.5	6.0	5.0	5.5
11	15.5	14.5	14.5	6.5	5.0	6.0	4.0	3.0	3.5	5.5	4.5	5.0
12	14.5	12.5	13.5	8.5	6.0	7.0	4.0	3.0	3.5	5.0	4.5	5.0
13	12.5	11.0	12.0	9.5	8.0	8.5	3.0	1.5	2.0	5.0	4.0	4.5
14	12.5	11.5	12.0	9.0	7.5	8.5	3.0	2.0	2.5	4.5	4.0	4.5
15	13.0	12.0	12.5	9.5	8.5	9.0	2.0	0.5	1.5	4.0	3.0	3.5
16	13.0	11.5	12.5	8.5	6.5	7.5	0.5	0.0	0.0	3.5	3.0	3.0
17	14.5	12.0	13.0	6.5	6.0	6.5	1.5	0.0	0.5	3.5	2.5	3.0
18	15.0	13.5	14.0	6.0	5.0	5.5	2.0	1.0	1.5	3.5	2.5	3.0
19	15.5	14.5	15.0	6.0	4.5	5.0	2.0	0.5	1.0	2.5	1.0	2.0
20	15.0	14.0	15.0	7.5	6.0	7.0	2.5	2.0	2.5	1.0	0.0	0.5
21	15.0	13.0	14.0	7.5	7.0	7.5	2.5	1.5	2.0	0.0	0.0	0.0
22	15.0	13.0	14.5	7.0	5.5	6.5	3.0	1.5	2.0	0.5	0.0	0.5
23	16.0	14.5	15.0	5.5	4.0	5.0	4.0	2.5	3.0	0.5	0.0	0.5
24	15.0	13.5	14.0	4.0	3.0	3.5	2.5	1.0	1.5	1.0	0.5	0.5
25	14.0	12.5	13.0	4.5	3.5	4.0	2.0	1.0	1.5	1.0	0.0	0.5
26	13.0	12.0	12.5	6.0	4.5	5.0	2.5	1.5	2.0	1.5	0.5	1.0
27	14.0	13.0	13.5	6.0	5.0	5.5	3.0	2.5	2.5	2.0	1.0	1.5
28	13.0	11.0	12.0	5.0	4.0	4.5	3.5	3.0	3.0	2.5	1.5	2.0
29	13.0	10.0	11.5	5.0	4.0	4.5	4.0	3.5	3.5	3.5	2.0	2.5
30	12.5	11.5	12.0	4.0	3.0	3.5	3.5	3.0	3.5	3.5	1.0	2.5
31	12.0	10.5	11.5	---	---	---	3.5	3.0	3.0	1.0	0.5	1.0
Month	19.5	10.0	14.4	12.0	3.0	6.8	4.0	0.0	2.1	8.0	0.0	2.6

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	1.5	0.5	1.0	2.0	0.0	1.0	8.0	5.5	6.5	12.5	9.0	11.0
2	2.0	1.0	1.5	3.5	1.0	2.0	7.5	5.5	6.5	12.5	11.0	12.0
3	3.0	2.0	2.5	5.0	2.5	3.5	7.5	4.5	6.0	14.5	12.0	13.5
4	3.5	2.5	3.0	3.0	1.0	2.0	7.0	6.5	7.0	14.5	13.0	13.5
5	3.5	2.0	2.5	1.5	1.0	1.5	9.0	6.0	7.5	15.0	11.5	13.5
6	2.0	1.0	1.5	3.5	1.0	2.0	10.5	7.0	8.5	15.5	12.5	14.0
7	1.0	0.5	1.0	2.5	1.5	2.0	11.5	8.5	10.0	15.0	12.5	14.0
8	2.0	1.0	1.5	1.5	0.0	1.0	13.0	9.0	11.0	14.5	13.0	14.0
9	3.0	2.0	2.5	2.0	0.0	1.0	12.5	10.5	11.5	14.5	11.5	13.0
10	2.5	0.0	2.0	2.5	0.0	1.0	12.5	10.0	11.0	15.0	12.0	13.5
11	0.5	0.0	0.0	3.5	0.5	2.0	11.0	9.0	10.0	14.0	12.0	13.5
12	0.5	0.0	0.0	3.0	2.0	2.5	9.5	8.5	9.0	15.0	12.5	14.0
13	1.5	0.0	1.0	3.0	1.5	2.0	10.0	8.0	9.0	16.5	12.5	14.5
14	2.5	0.5	1.5	4.5	2.5	3.5	11.0	8.5	9.5	15.5	13.0	14.5
15	2.5	1.5	2.0	4.0	3.0	3.5	11.5	8.0	10.0	16.0	14.0	15.0
16	2.0	1.0	1.5	3.0	2.0	2.5	12.5	8.5	10.5	14.5	13.0	13.5
17	2.5	0.5	1.5	3.5	1.5	2.5	14.5	9.5	12.0	14.0	12.0	13.0
18	2.5	1.0	2.0	3.5	2.5	3.0	16.0	11.0	13.5	13.5	12.0	12.5
19	1.5	0.5	1.0	3.5	2.5	3.0	17.0	13.0	15.0	12.0	10.5	11.0
20	1.5	0.0	0.5	2.5	2.0	2.0	17.5	14.5	16.0	12.0	10.0	11.0
21	1.5	0.0	1.0	3.0	1.5	2.0	18.0	14.5	16.5	11.5	10.5	11.0
22	2.0	0.5	1.0	4.0	2.0	3.0	18.5	14.5	16.5	12.0	10.5	11.0
23	3.0	1.0	2.0	4.5	2.0	3.0	17.5	15.0	16.0	13.5	11.0	12.0
24	3.5	1.0	2.0	4.0	2.5	3.0	17.0	13.5	15.5	15.5	12.0	13.5
25	3.5	1.5	2.5	4.0	2.0	3.0	15.5	13.0	14.5	16.5	13.0	14.5
26	3.0	2.0	2.5	6.5	3.5	5.0	18.0	13.5	15.5	16.5	14.0	15.5
27	2.0	0.5	1.0	5.5	4.5	5.0	17.0	14.0	16.0	16.5	14.0	15.5
28	0.5	0.0	0.0	4.5	3.5	4.0	15.5	12.0	14.0	15.5	12.0	14.0
29	0.5	0.0	0.0	5.0	2.5	4.0	13.5	11.0	12.0	16.5	12.0	14.0
30	---	---	---	5.5	2.5	4.0	12.0	10.0	11.0	15.5	13.5	14.5
31	---	---	---	5.5	5.0	5.0	---	---	---	17.5	15.0	16.0
Month	3.5	0.0	1.4	6.5	0.0	2.7	18.5	4.5	11.6	17.5	9.0	13.4

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	16.5	15.5	16.0	22.0	19.0	20.5	21.5	20.0	21.0	19.5	16.5	18.0
2	18.5	14.0	16.0	22.0	18.5	20.0	21.5	20.5	21.0	19.5	17.0	18.0
3	17.0	16.0	16.5	20.5	19.5	20.0	21.0	20.0	20.0	20.0	17.0	18.5
4	17.0	15.5	16.0	20.5	18.0	19.0	21.0	19.0	20.0	20.5	18.5	19.5
5	19.0	16.0	17.5	21.0	17.5	19.5	22.0	19.5	20.5	21.5	19.0	20.0
6	22.5	18.0	20.0	21.5	18.0	20.0	22.5	21.5	22.0	20.5	18.5	19.5
7	23.0	20.0	21.5	23.5	20.0	21.5	22.0	21.0	21.5	18.5	17.5	18.0
8	23.0	20.5	22.0	24.5	21.0	22.5	21.0	19.5	20.0	18.5	16.5	17.5
9	25.0	21.0	23.0	23.5	22.0	22.5	20.5	19.0	19.5	18.0	16.5	17.5
10	23.5	21.5	22.5	23.0	20.0	21.5	20.5	19.0	19.5	17.0	15.5	16.0
11	22.5	20.0	21.0	21.5	20.0	20.5	19.5	18.5	19.0	16.5	14.0	15.0
12	21.5	19.0	20.0	22.5	19.5	21.0	20.0	18.5	19.0	17.0	15.5	16.0
13	22.0	18.5	20.0	22.0	21.0	21.5	19.5	18.0	18.5	18.5	16.5	17.0
14	21.0	20.0	20.5	21.5	19.5	20.5	19.5	17.5	18.5	20.5	18.5	19.5
15	22.0	19.0	20.5	22.0	19.0	20.5	19.5	17.5	18.5	20.0	17.0	18.5
16	21.0	18.5	20.0	22.5	19.5	21.0	20.0	17.5	18.5	17.0	15.5	16.5
17	20.0	17.5	18.5	23.5	20.5	22.0	20.0	18.5	19.0	17.0	14.5	15.5
18	18.5	17.0	17.5	24.0	21.5	22.5	21.5	19.0	20.0	16.5	15.0	16.0
19	17.5	16.0	17.0	24.0	22.0	23.0	20.5	18.5	20.0	15.5	13.0	14.5
20	18.5	16.5	17.5	23.5	22.0	22.5	19.0	17.0	18.0	16.5	14.0	15.0
21	20.0	16.5	18.0	23.5	22.0	22.5	19.5	16.5	18.0	15.5	14.5	15.0
22	20.0	17.5	18.5	22.5	21.5	22.0	20.5	17.5	19.0	15.0	13.0	14.0
23	20.5	18.0	19.0	22.0	21.0	21.5	21.0	18.5	20.0	14.5	12.5	13.5
24	20.5	18.0	19.0	21.0	20.0	21.0	21.0	19.0	20.0	15.5	12.5	14.0
25	21.0	18.0	19.5	21.5	19.5	20.5	20.0	18.0	19.5	16.0	13.5	15.0
26	21.0	19.0	20.0	22.0	20.0	21.0	19.0	16.5	17.5	15.5	14.0	14.5
27	21.5	19.5	20.5	22.5	20.5	21.5	18.5	15.5	17.0	16.5	15.0	15.5
28	22.0	20.0	21.0	22.0	21.0	21.5	18.0	17.0	17.5	16.5	16.0	16.0
29	22.5	20.5	21.5	22.5	20.5	21.5	18.0	17.0	17.5	16.0	15.0	15.5
30	21.0	20.0	20.5	21.0	20.0	20.5	19.5	17.5	18.5	15.0	14.5	15.0
31	---	---	---	21.5	20.0	21.0	19.5	17.0	18.0	---	---	---
Month	25.0	14.0	19.4	24.5	17.5	21.2	22.5	15.5	19.2	21.5	12.5	16.5

	Max	Min	Mean
Year	25.0	0.0	11.0

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 1 of 2
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Begin time	End time	Dis-charge, ft3/s (00060)	Chlor-ide, water, fltrd, mg/L (00940)	Residue total non-filter-able, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water unfltrd mg/L as N (00630)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L as P (00665)	Cadmium water, unfltrd µg/L (01027)	Copper, water, unfltrd recover-able, µg/L (01042)	Lead, water, unfltrd recover-able, µg/L (01051)
Nov 20-22	1550	1550	339	86.7	117	.83	.013	.699	.015	.224	--	--	--
Nov 22-27	1650	1350	322	115	65	.86	.012	.957	.014	.153	--	--	--
Nov 27-Dec 03	1400	1100	180	131	22	.49	.020	.963	.015	.087	--	.004	.001
Dec 22-26	0815	0714	496	192	86	.87	<.010	1.12	.025	.209	M	.006	.005
Dec 26 2007-Jan 02 2008	0800	0700	232	202	17	.47	<.010	1.29	.011	.070	M	.002	.001
Jan 10-15	1220	1320	251	163	21	.56	<.010	1.10	.014	.057	--	--	--
Feb 04-11	1610	1010	660	215	68	.54	.031	1.04	.021	.124	--	--	--
Mar 14-19	1200	1000	341	262	11	.59	.013	1.09	.008	.056	--	--	--
Mar 19-26	1320	0920	481	164	13	.52	.014	1.05	.011	.087	--	--	--
Mar 31-Apr 07	1030	0930	340	152	48	.87	<.010	.794	.007	.122	--	--	--
Apr 11-15	1235	0834	326	149	65	.95	.016	.749	.005	.124	--	--	--
May 03-05	1505	0805	214	143	36	.93	<.010	.718	<.003	.090	--	--	--
Jul 21-23	0810	1209	145	113	136	.91	.018	.362	.005	.183	--	--	--
Jul 23-30	1210	1110	116	127	61	.69	.012	.470	.012	.097	--	--	--
Aug 29-Sep 04	1130	1330	59	139	36	.35	.010	.409	.009	.025	--	--	--
Sep 12-15	1330	1030	124	106	170	.73	.016	.455	.012	.140	--	--	--

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 2
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 20-22	--
Nov 22-27	--
Nov 27-Dec 03	.046
Dec 22-26	.041
Dec 26 2007	-
Jan 02 2008	.030
Jan 10-15	--
Feb 04-11	--
Mar 14-19	--
Mar 19-26	--
Mar 31-Apr 07	--
Apr 11-15	--
May 03-05	--
Jul 21-23	--
Jul 23-30	--
Aug 29-Sep 04	--
Sep 12-15	--