

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 11-59

***2010 ANNUAL SUMMARY REPORT
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF THE
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER
CHICAGO***

December 2011

Metropolitan Water Reclamation District of Greater Chicago
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**2010 ANNUAL SUMMARY REPORT
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

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December 2011

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Dissolved Oxygen	AII-1	AII-18	AII-64
Temperature	AII-1	AII-19	AII-65
pH	AII-1	AII-20	AII-66
Alkalinity (Total)	AII-1		AII-67
Chloride	AII-2	AII-21	AII-68
Turbidity	AII-2		AII-69
Electrical Conductivity			AII-70
Total Kjeldahl Nitrogen	AII-2		AII-71
Ammonium Nitrogen	AII-2	AII-22	AII-72
Un-ionized Ammonia	AII-3	AII-23	AII-73
Organic Nitrogen	AII-3		AII-74
Nitrite Plus Nitrate Nitrogen	AII-3		AII-75
Total Solids	AII-3		AII-76
Total Volatile Solids			AII-77
Total Suspended Solids	AII-4		AII-78
Volatile Suspended Solids	AII-4		AII-79
Total Dissolved Solids	AII-4	AII-24	AII-80
Phenols	AII-4	AII-25	AII-81
Total Nonylphenols	AII-5		AII-82
Sulfate	AII-5	AII-26	AII-83
Fats, Oils, and Greases	AII-5	AII-27	AII-84
Total Phosphorus	AII-5		AII-85
Soluble Phosphorus			AII-86

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Parameter	Sample Mean During 2010	Violation History Through 2010	Mean History Through 2010
	Page	Page	Page
Total Cyanide	AII-6	AII-28	AII-87
Weak Acid Dissociable Cyanide	AII-6	AII-29	AII-88
Fluoride	AII-6	AII-30	AII-89
Total Organic Carbon	AII-6		AII-90
Fecal Coliform	AII-7	AII-31	AII-91
Escherichia Coli	AII-7		AII-92
Total Calcium	AII-7		AII-93
Total Magnesium	AII-7		AII-94
Hardness	AII-8		AII-95
Gross Alpha Radioactivity	AII-8		AII-96
Gross Beta Radioactivity	AII-8	AII-32	AII-97
Chlorophyll <i>a</i>	AII-8		AII-98
Benzene*		AII-33	
Benzene	AII-9	AII-34	AII-99
Ethylbenzene	AII-9	AII-35	AII-100
Toluene	AII-9	AII-36	AII-101
Xylene	AII-9	AII-37	AII-102
Total Silver	AII-10	AII-38	AII-103
Total Arsenic	AII-10	AII-39	AII-104
Total Barium	AII-10	AII-40	AII-105
Total Boron	AII-10	AII-41	AII-106
Total Cadmium	AII-11	AII-42	AII-107
Total Copper	AII-11	AII-43	AII-108
Total Chromium	AII-11		AII-109
Total Hexavalent Chromium	AII-11	AII-44	AII-110

TABLE LOCATOR BY PARAMETER IN APPENDIX AII (Continued)

Parameter	Sample Mean During 2010	Violation History Through 2010	Mean History Through 2010
	Page	Page	Page
Total Iron	AII-12	AII-45	AII-111
Total Lead	AII-12	AII-46	AII-112
Total Nickel	AII-12	AII-47	AII-113
Total Manganese	AII-12	AII-48	AII-114
Total Mercury*		AII-49	
Total Mercury	AII-13	AII-50	AII-115
Low Level Mercury	AII-13		AII-116
Total Zinc	AII-13	AII-51	AII-117
Total Selenium	AII-13	AII-52	AII-118
Soluble Calcium	AII-14		AII-119
Soluble Magnesium	AII-14		AII-120
Soluble Silver	AII-14		AII-121
Soluble Arsenic	AII-14	AII-53	AII-122
Soluble Barium	AII-15		AII-123
Soluble Boron	AII-15		AII-124
Soluble Cadmium	AII-15	AII-54	AII-125
Soluble Copper	AII-15	AII-55	AII-126
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Soluble Lead	AII-16	AII-58	AII-129
Soluble Nickel	AII-16	AII-59	AII-130
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*Due to Human Health Standard in General Use Waters.

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DISCLAIMER

Mention of proprietary equipment and chemicals in this report does not constitute endorsement by the Metropolitan Water Reclamation District of Greater Chicago.

SUMMARY AND CONCLUSIONS

Surface water quality data gathered by the Metropolitan Water Reclamation District of Greater Chicago (District) for the waterway systems within its jurisdiction have been evaluated for compliance with the Illinois Pollution Control Board (IPCB) water quality standards for the year 2010. In addition, the District compared these data with data for 2009.

Compliance with Water Quality Standards During 2010

General Use Waters. Thirty out of 67 water quality parameters assayed were subject to IPCB water quality standards. They were dissolved oxygen (DO), temperature, pH, chloride, ammonium nitrogen, total dissolved solids, phenols, sulfate, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total hexavalent chromium, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble lead, soluble nickel, and soluble zinc. Two parameters (benzene and total mercury) were subject to IPCB Human Health Standards. Water samples were collected from locations throughout the five segments of the river systems including the General Use sectors of the Chicago River System, the Calumet River System, the Des Plaines River System, the West Branch of the DuPage River System, and the Fox River System (Poplar Creek).

Twenty-two water quality parameters were in total compliance with the standards in all river systems. They were temperature, ammonium nitrogen, phenols, weak acid dissociable cyanide, fluoride, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble chromium, soluble iron, soluble lead, soluble nickel, and soluble zinc. Benzene and total mercury were in total compliance with the Human Health Standard in all river systems.

Of the remaining eight parameters, six parameters (DO, pH, chloride, sulfate, total hexavalent chromium, and soluble copper) had compliance rates greater than 89.0 percent in all river systems. Total dissolved solids had compliance rates of 83.3, 78.4, and 85.8 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems. Fecal coliform had the lowest compliance rate in the range of 50.3 to 62.5 percent in all river systems.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates with water quality standards except for pH, chloride, and total dissolved solids. In the Chicago River System, the compliance rate for pH significantly decreased from total compliance in 2009 to 95.8 percent in 2010. In the Calumet River System, the compliance rate for chloride significantly decreased from total compliance in 2009 to 94.5 percent in 2010. In the Des Plaines River System, the compliance rate for chloride significantly decreased from 98.7 percent in 2009 to 92.7 percent in 2010, and the compliance rate for total dissolved solids significantly decreased from 97.7 percent in 2009 to 85.8 percent in 2010. Comparison of data for Human Health Standards indicated that there was no significant difference between 2010 and 2009 compliance rates of all parameters in the three river systems.

Secondary Contact and Indigenous Aquatic Life Waters. This water use classification is principally applied to the man-made navigable canal system in the Chicago and Calumet River Systems. Twenty-three water quality parameters measured in the secondary contact waters during 2010 were subject to IPCB standards. They were DO; temperature; pH; un-ionized ammonia; total dissolved solids; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total iron; total lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron.

Eighteen parameters were in complete compliance with the IPCB standards in the Chicago and Calumet River Systems in 2010. They were temperature; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron.

The remaining five parameters DO, pH, un-ionized ammonia, total dissolved solids, and total iron had compliance rates greater than 93.0 percent in both river systems.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates for all parameters in the two river systems.

INTRODUCTION

It is the responsibility of the District to conduct monitoring of the water quality of the streams and canals within its jurisdiction. Detailed annual water quality summaries (similar to this report) of all water quality data collected have been published by the District for the years 1972 through 2009. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2010.

It should be noted that the Illinois Environmental Protection Agency has also conducted water quality sampling programs within the District's waterways, and has published annual summaries of its water quality network computerized database since 1971. These findings were consistent with and support the District's evaluation.

The primary purpose of this report is to establish a repository for the waterways data, and to present them in a variety of formats judged to be most useful to the reader. The tables included in the appendices are self-contained to facilitate reproduction and transmittal of specific data requests.

In addition to the data formats included in Appendices AI, AII, and AIII, custom data presentation formats are available in hardcopy and electronic media.

WATER QUALITY NETWORK

Description of Waterways

The District is responsible for monitoring the quality of the waterways that are impacted by its operations. A map depicting the waterways is shown in Figure 1. These include both man-made and natural waterways. Principal man-made water courses are: the North Shore Channel, connecting Lake Michigan at Wilmette to the North Branch of the Chicago River; the Chicago Sanitary and Ship Canal (Main Channel), extending from Damen Avenue to the Lockport Powerhouse; and the Calumet-Sag Channel, connecting the Little Calumet River with the Main Channel. The functions of the canal system are to:

- Provide navigational facilities for boats and barges.
- Serve as receiving waters for the tributary streams and water reclamation plant (WRP) effluents, combined sewer overflows, and stormwater runoff.
- Convey the flows from the Lake Michigan watershed to the Des Plaines River watershed through the waterway system, exiting at the Lockport Powerhouse.

The principal natural river systems germane to the District's surveillance programs are: the Chicago River System, branches flowing south from Lake County into the North Branch of the Chicago River; the Des Plaines River System, flowing south from Lake County and joining with the discharge from the Main Channel downstream of the powerhouse at Lockport; and the Calumet River System, which flows into the Calumet-Sag Channel.

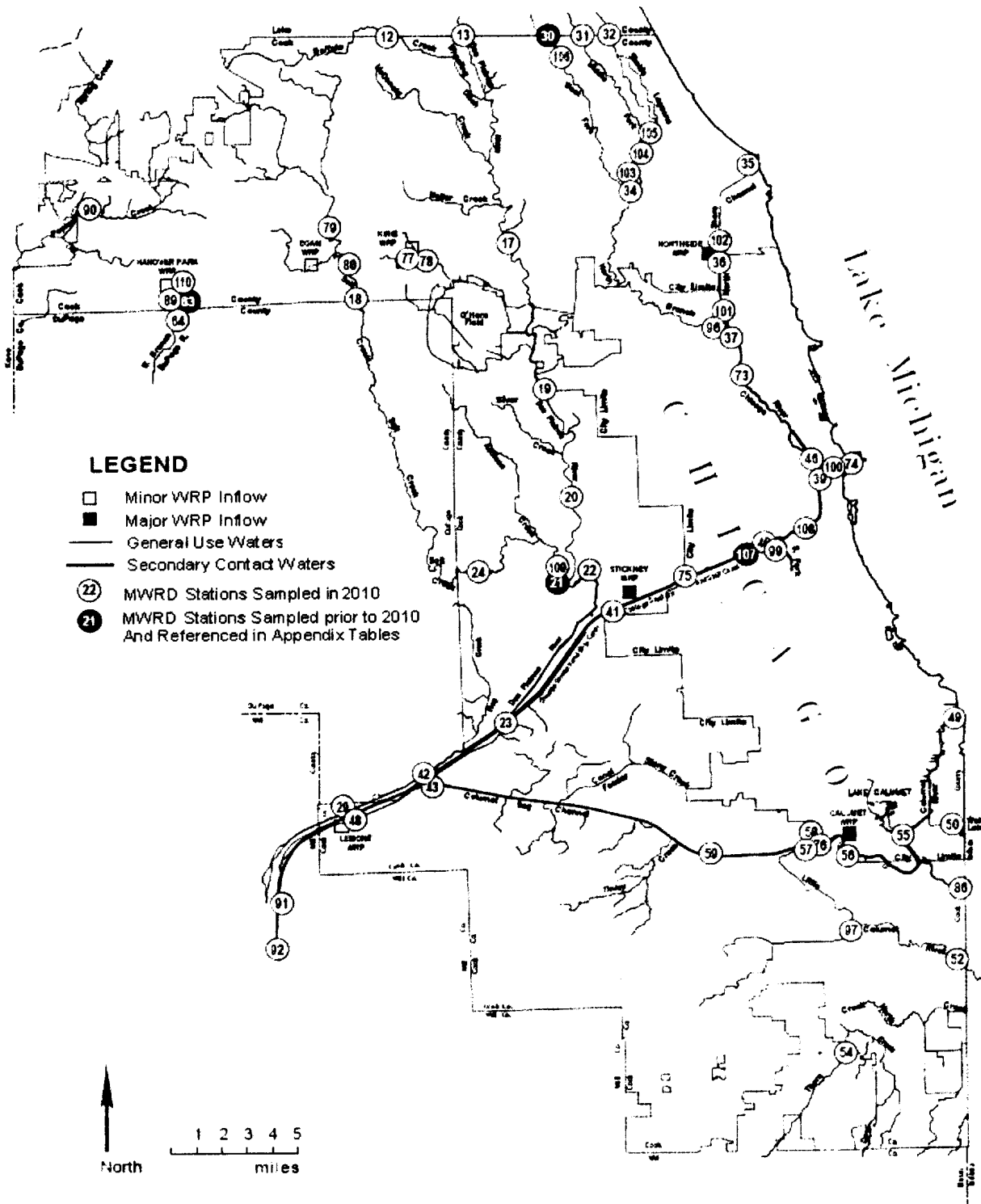
Water Use Designations. IPCB Regulations, Section 303.201, specify that “**except as otherwise specifically provided, all waters of the State must meet the General Use standards for Subpart B of Part 302.**” Section 303.441 delineates those waters which do not qualify for General Use but “... **are designated as secondary contact and indigenous aquatic life waters [Secondary Contact Waters] and must meet the water quality standards of 35 Ill. Adm. Code 302, Subpart D.**” The waters within District boundaries classified for use as Secondary Contact Waters are shown in Figure 1. In general, the Secondary Contact Waters coincide with the manmade canals or modified waterways in the Chicago and Calumet River Systems. A complete listing of the District's waterways sampling station water use designations is shown in Table AI-2, Appendix AI.

Scope of Waterways Data

The waterways data management system was designed to store and manage data resulting from the assays of water samples taken at locations throughout the District's waterways. In addition to storage, retrieval, and update capabilities, the system includes programs for:

- The generation of reports and graphs.
- The generation of annual summary statistics.

FIGURE 1: WATERWAYS SERVICE AREA AND SAMPLING LOCATION POINTS



- Comparisons of water quality with State of Illinois stream standards.
- Comparisons of water quality with the results of previous years.

The major computations of data are presented in Appendices AII and AIII, and in tables appearing in the main body of this report. The water quality parameter directory is shown in Appendix AI. Water quality parameters assayed in 2010 and sampling stations are listed in Tables AI-1 and AI-2, respectively.

Summary water quality results for 2010 are listed in Appendix AII. Annual mean values of all water quality parameters assayed at all stations sampled (grab samples only) are tabulated in Table AII-1. This table presents the numerical values of various water quality parameters, which can be used to determine any relationships that exist among them. The results of the violations of the standards are tabulated in Tables AII-2 through AII-45. Note that Tables AII-2 through AII-46 list the sampling locations where violations occurred during 2010 and their most recent eight-year history.

In comparing data from a historical perspective, it is desirable to view summary data from past years together with data from the current year. Tables AII-46 through AII-118 (Appendix AII) were designed to present the mean values of various parameters for 1993 through 2009, with the 2010 mean values for each parameter and all locations sampled.

Finally, Tables AIII-1 through AIII-5 were prepared to present comprehensive statistical analysis required to show whether the upstream and downstream means of various water quality parameters for each WRP are significantly different.

Water Sampling

Surface water grab samples were taken at 59 locations during 2010. Their locations, as well as the locations of recently discontinued sampling stations, are as shown in Figure 1. The samples were taken at a nominal monthly frequency, with one of the three principal river systems being sampled on a given day. The total number of samples collected monthly in each river system during 2010 is shown in Table 1. Note that samples taken in the West Branch of the DuPage River (upstream and downstream of the Hanover ParkWRP outfall), and in the Fox River System (Poplar Creek) are included with the Des Plaines River data. In addition, weekly grab samples were taken at the Lockport Powerhouse because of an inoperative automatic sampler.

Reconstruction of the Lockport Powerhouse during 1998 resulted in the Treblar sampler being inactivated. Grab sampling at the Lockport Powerhouse was initiated once per week in 1998 as a substitute for the inoperative sampler. This sampling was discontinued in April 2002. Sampling at the Lockport Powerhouse was replaced by collecting weekly grab samples at Location 92 (Lockport Forebay) in 2002.

Locations sampled in the respective river systems during 2010 are shown without an asterisk in Table AI-2 of Appendix AI. Twenty-six sites were sampled in the Chicago River System, 13 sites in the Calumet River System, and 20 sites in the Des Plaines River System, including four locations in the DuPage and Fox River Systems. The waterways system sampling station numbers

TABLE 1: TOTAL NUMBER OF WATERWAYS (BRIDGE RUNS) SAMPLES
COLLECTED MONTHLY DURING 2010

Month	River System		
	Chicago	Calumet	Des Plaines
January	21	12	10
February	26	9	17
March	29	12	17
April	28	11	20
May	29	12	19
June	27	12	17
July	26	11	16
August	30	12	17
September	27	12	18
October	27	11	17
November	28	12	16
December	22	NS	12

NS = No sample was taken at any location of this river system.

correspond to the numbers on the map shown in Figure 1. The complete waterways sampling stations directory of all 107 stations, of which the 59 sampling locations in 2010 are a subset, is listed in Table AI-2, Appendix AI.

Water Assays and Water Quality Criteria

The District's laboratories performed 67 types of analyses on water samples taken in District waterways during 2010. A list of these assays and additional parameters computed from these assays appears in Table 2. Table 2 shows the water quality standard for each parameter as defined by the IPCB in the State of Illinois Rules and Regulations, Title 35 (2).

It should be noted that the General Use Water Quality Standards for ammonia nitrogen and un-ionized ammonia were revised effective November 8, 2002, and those for dissolved metals were adopted effective December 20, 2002. New revised standards are used to assess compliance rates starting from 2003. The General Use Water Quality Standard for DO was revised effective December 2008.

Special Interpretation of Certain Water Quality Standards. In most cases, the standards are unambiguous; that is, a simple numerical limit or range is given which may not be exceeded or must be met. However, there are four water quality parameters (DO, fecal coliform, temperature, and total chromium) which require interpretation in light of excessive cost of sample collection and sample assay techniques at a given frequency. These costs are related to the excessive manpower requirements and cost of performing continuous DO measurements. The interpretations of IPCB standards for DO, temperature, and fecal coliform are given in Table 3. In the case of DO, there are two standards, one based on 16 hours/day and the other based on all times. Since the District samples once per month, it cannot define a 16-hour/day level. The District, therefore, interprets the IPCB standard for DO as the lower of the two numerical limits in each of the two instances shown.

The standard for fecal coliform is complicated by the required minimum of five samples collected over a 30-day period, and the use of a geometric mean. District protocols stipulate sampling once per month, and therefore a geometric mean is not possible. Because of this, the District interprets the IPCB standard limitation as 400 cfu/100 mL in General Use Waters.

The standard for temperature also requires compliance with two temperatures for Secondary Contact Waters, depending on the number of observations. In this case, because temperatures are recorded by the District only once per month, the District interprets the IPCB standard as the maximum limit, or 37.8 °C at any time.

The IPCB water quality standards for chromium are specified separately for the trivalent and hexavalent oxidation states. Prior to 2003, the District did not differentiate between oxidation states when assaying for chromium because of the highly reactive nature of the total hexavalent chromium, but reported the results as total chromium (trivalent plus hexavalent), and applied the IPCB numerical limit for total trivalent chromium to the measured total chromium concentrations. However, since January 2003, the District has assayed for total chromium, total hexavalent chromium, and soluble chromium. The standard currently contains a limit for total hexavalent

TABLE 2: WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS IN 2010¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Dissolved Oxygen	5 mg/L ⁵	302.206	4 mg/L 3 mg/L ⁶	302.405 302.405
Temperature	32 °C ⁷ (Apr-Nov)	302.211	≤34.0 °C 95% of the time	302.408
Temperature	16 °C ⁷ (Dec-Mar)	302.211	≤37.8 °C 100% of the time	302.408
pH	6.5-9.0	302.204	6.0-9.0	302.404
Alkalinity (Total)	NAS		NAS	
Chloride	500 mg/L	302.208	NAS	
Turbidity	NAS		NAS	
Total Kjeldahl Nitrogen	NAS		NAS	
Ammonium Nitrogen	mg/L ⁸	302.212	NAS	
Un-ionized Ammonia	NAS		0.1 mg/L	302.407
Organic Nitrogen	NAS		NAS	
Nitrite Plus Nitrate Nitrogen	NAS		NAS	
Total Solids	NAS		NAS	
Total Suspended Solids	NAS		NAS	
Volatile Suspended Solids	NAS		NAS	
Total Dissolved Solids	1000 mg/L	302.208	1500 mg/L	302.407
Phenols	100 µg/L	302.208	300 µg/L	302.407
Total Nonylphenols	NAS		NAS	
Sulfate	500 mg/L	302.208	NAS	
Fats, Oils, and Greases	NAS		15 mg/L	302.407
Total Phosphorus	NAS		NAS	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARDS IN 2010¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Total Cyanide	NAS		0.1 mg/L	302.407
WAD Cyanide	0.022 mg/L	302.208	NAS	
Fluoride	1.4 mg/L	302.208	15 mg/L	302.407
Total Organic Carbon	NAS		NAS	
Fecal Coliform	400	302.209	NAS	
Escherichia Coli	NAS		NAS	
Total Calcium	NAS		NAS	
Total Magnesium	NAS		NAS	
Hardness	NAS		NAS	
Gross Alpha Radioactivity	NAS		NAS	
Gross Beta Radioactivity	100 pCi/L	302.207	NAS	
Chlorophyll <i>a</i>	NAS		NAS	
Benzene*	310 µg/L	302.658	NAS	
Benzene	4200 µg/L	302.208	NAS	
Ethylbenzene	150 µg/L	302.208	NAS	
Toluene	2000 µg/L	302.208	NAS	
Xylene	920 µg/L	302.208	NAS	
Total Silver	0.005 mg/L	302.208	1.1 mg/L	302.407
Total Arsenic	NAS		1 mg/L	302.407
Total Barium	5 mg/L	302.208	5 mg/L	302.407
Total Boron	1 mg/L	302.208	NAS	
Total Cadmium	NAS		0.15 mg/L	302.407
Total Copper	NAS		1 mg/L	302.407
Total Chromium	NAS		NAS	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARDS IN 2010¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Total Hexavalent Chromium	16 µg/L	302.208	300 µg/L	302.407
Total Iron	NAS		2 mg/L	302.407
Total Lead	NAS		0.1 mg/L	302.407
Total Nickel	NAS		1 mg/L	302.407
Total Manganese	1 mg/L	302.208	1 mg/L	302.407
Total Mercury*	0.012 µg/L	302.658	NAS	
Total Mercury	NAS		0.5 µg/L	302.407
Low Level Mercury	NAS		NAS	
Total Zinc	NAS		1 mg/L	302.407
Total Selenium	1 mg/L	302.208	1 mg/L	302.407
Soluble Calcium	NAS		NAS	
Soluble Magnesium	NAS		NAS	
Soluble Silver	NAS		NAS	
Soluble Arsenic	0.36 mg/L	302.208	NAS	
Soluble Barium	NAS		NAS	
Soluble Boron	NAS		NAS	
Soluble Cadmium	mg/L ⁹	302.208	NAS	
Soluble Copper	mg/L ¹⁰	302.208	NAS	
Soluble Chromium	mg/L ¹¹	302.208	NAS	
Soluble Iron	1 mg/L	302.208	0.5 mg/L	302.407
Soluble Lead	mg/L ¹²	302.208	NAS	
Soluble Nickel	mg/L ¹³	302.208	NAS	
Soluble Manganese	NAS		NAS	
Soluble Zinc	mg/L ¹⁴	302.208	NAS	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARDS IN 2010¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Soluble Selenium	NAS		NAS	

¹Water Quality Standards from “State of Illinois Rules and Regulations,” Title 35: Environmental Protection, Subtitle C: Water Pollution.

²General Use Waters Designations, defined in Section 302.201 from 1 above. See Figure 1, for delineation.

³Secondary Contact and Indigenous Aquatic Life Waters Use Designation, defined in section 303.441 from 1 above. See Figure 1, for delineation.

⁴Section Number from 1 above.

⁵Water Quality Standard is 5.0 mg/L in March through July and 3.5 mg/L in other months.

⁶Calumet-Sag Channel only.

⁷The upper value cannot be exceeded during more than 1% of the hours in the preceding 12-month period. The lower value cannot be exceeded at any time.

⁸ $\text{Min}[0.411/(1 + 10^{7.204-\text{pH}}) + 58.4/(1 + 10^{\text{pH}-7.204}), 15]$

⁹ $\text{Min}[(1.138672 - 0.041838 \ln(\text{Hard})) * e^{-2.918+1.128 \ln(\text{Hard})} * 0.001, 0.05]$

¹⁰ $e^{-1.464+0.9422 \ln(\text{Hard})} * 0.000960$

¹¹ $e^{3.688+0.819 \ln(\text{Hard})} * 0.000316$

¹² $[1.46203 - 0.145712 \ln(\text{Hard})] * e^{-1.301+1.273 \ln(\text{Hard})} * 0.001$

¹³ $e^{0.5173+0.846 \ln(\text{Hard})} * 0.000998$

¹⁴ $e^{0.9035+0.8473 \ln(\text{Hard})} * 0.000978$

NAS = No Applicable Standard.

*Human Health Standard.

TABLE 3: ILLINOIS POLLUTION CONTROL BOARD WATER QUALITY STANDARDS AND CORRESPONDING METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO INTERPRETATIONS FOR 2010

Parameter	Water Use Designation	IPCB Standard	District Interpreted Standard
1. Dissolved Oxygen	General Use Waters	<i>March – July</i>	
		≥5.0 mg/L anytime	≥5.0 mg/L anytime
		≥6.0 mg/L daily mean averaged over 7 days	
		<i>August - February</i>	
		≥3.5 mg/L anytime	≥4.0 mg/L anytime
		≥4.0 mg/L daily minimum averaged over 7 days	
	Secondary Contact Waters	≥4.0 mg/L anytime	≥4.0 mg/L anytime
	(Calumet-Sag Channel effective 5/19/88)	≥3.0 mg/L anytime	≥3.0 mg/L anytime
2. Temperature	Secondary Contact Waters	≤34.0°C, 95% of the time	≤37.8°C
		≤37.8°C, 100% of the time	anytime
3. Fecal Coliform	General Use Waters	Based on a minimum of five samples in a 30-day period geometric mean ≤200 cfu/100 mL; ≤400 cfu/100 mL in 90% of the samples	≤400 cfu/100 mL anytime

chromium and for soluble trivalent chromium. The District applies the analysis of soluble chromium to the soluble trivalent chromium standard.

Starting in January 2003, the IPCB also dropped the water quality standards for total arsenic, total cadmium, total copper, total iron, total lead, total nickel, total mercury, and total zinc, and introduced standards for the dissolved fraction of the above metals in the General Use Waters. The IPCB also introduced standards for total arsenic, total cadmium, total copper, total iron, total lead, total nickel, total mercury, and total zinc in the Secondary Contact Waters. In addition, it should be noted that in 1996, the General Use standard for cyanide was changed from total cyanide to weak acid dissociable cyanide. Thus, beginning with the 1996 report, compliance determinations have been made in terms of weak acid dissociable cyanide.

COMPLIANCE WITH WATER QUALITY STANDARDS IN GENERAL USE WATERS

Sampling Locations and Frequencies

By definition, all sampling locations not in waters classified as Secondary Contact Waters are within General Use Waters. The delineation of these two water use classifications is shown in Figure 1. A tabulation of sampling locations and the number of samples collected in General Use Waters during 2010 is shown in Table 4. Of the five river systems sampled during 2010, three (Des Plaines, DuPage, and Fox) lie entirely within the General Use classification. The General Use Waters in the Chicago and Calumet River Systems mostly consist of the streams that are tributary to the principal man-made channels and modified river sections.

In the subsequent evaluation, when the Fox River System is referred to in this report, Station 90 is considered to be General Use. Similarly, in the DuPage River System, data from three sampling locations are considered to be General Use: 8,342 feet upstream (Station 110), 1,000 feet downstream (Station 89), and 7,900 feet downstream (Station 64) of the Hanover Park WRP treated effluent discharge into the West Branch of the DuPage River. The frequency of sampling during 2010 was once per month at most locations.

River System Compliance Data

In the General Use Waters, 67 parameters were analyzed in 2010, of which 30 parameters were covered by the State of Illinois Water Quality Standards. Two parameters (benzene and total mercury) were subject to IPCB Human Health Standards. Summary results, including means, number of observations, and number of violations of General Use Standards and Human Health Standards, are shown in Appendix AII at each sampling station of each of the three river systems.

The 22 parameters which were in 100 percent compliance in all river systems were temperature, ammonium nitrogen, phenols, weak acid dissociable cyanide, fluoride, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble chromium, soluble iron, soluble lead, soluble nickel, and soluble zinc.

Two parameters, benzene and total mercury, were in total compliance due to the Human Health Standard in all river systems.

The eight water quality parameters which were in less than complete compliance in 2010 are shown in Table 5. The percent compliance for these parameters in each river system is also presented.

Soluble mercury was not assayed in 2009 and 2010 in all three River Systems. The compliance rates for remaining water quality parameters with the General Use Standards and compliance rates for two parameters (benzene and total mercury) with the Human Health Standards for the Chicago, Calumet, and Des Plaines River Systems are presented in Figures 2, 3, and 4, respectively. Since soluble mercury was not assayed, it is excluded in Figure 2 through Figure 4.

TABLE 4: LOCATIONS SAMPLED AND ANNUAL SAMPLING
FREQUENCIES OF GENERAL USE WATERS IN 2010

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
106	Dundee Road, West Fork North Branch Chicago River	10
103	Golf Road, West Fork North Branch Chicago River	10
31	Lake-Cook Road, Middle Fork North Branch	9
104	Glenview Road, North Branch Chicago River	9
32	Lake-Cook Road, Skokie River	9
105	Frontage Road, Skokie River	12
34	Dempster Street, North Branch Chicago River	8
96	Albany Avenue, North Branch Chicago River	11
35	Central Street, North Shore Channel	8
102	Oakton Street, North Shore Channel	11
74	Lake Shore Drive, Chicago River	11
100	Wells Street, Chicago River	12
		<u>120</u>
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	6
50	Burnham Avenue, Wolf Lake	11
55	130th Street, Calumet River	10
52	Wentworth Avenue, Little Calumet River	11
54	Joe Orr Road, Thorn Creek	9
97	170th Street, Thorn Creek	11
57	Ashland Avenue, Little Calumet River	10
		<u>68</u>
<u>Des Plaines River System</u>		
79	Higgins Road, Salt Creek	8
80	Arlington Heights Road, Salt Creek	12
18	Devon Avenue, Salt Creek	10
24	Wolf Road, Salt Creek	10
109	Brookfield Avenue, Salt Creek	11
77	Elmhurst Road, Higgins Creek	1
78	Wille Road, Higgins Creek	9
12	Lake-Cook Road, Buffalo Creek	7
13	Lake-Cook Road, Des Plaines River	11
17	Oakton Street, Des Plaines River	11

TABLE 4 (Continued): LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF GENERAL USE WATERS IN 2010

Map No. ¹	Station Name	Annual No. of Samples
<u>Des Plaines River System (Continued)</u>		
19	Belmont Avenue, Des Plaines River	11
20	Roosevelt Road, Des Plaines River	11
22	Ogden Avenue, Des Plaines River	12
23	Willow Springs Road, Des Plaines River	12
29	Stephen Street, Des Plaines River	12
91	Material Service Road, Des Plaines River	12
		<u>160</u>
<u>DuPage River System</u>		
89	Walnut Lane, West Branch DuPage River	12
64	Lake Street, West Branch DuPage River	6
110	Springinsguth Road, West Branch DuPage River	8
		<u>26</u>
<u>Fox River System</u>		
90	Route 19, Poplar Creek	10
		<u>10</u>

¹Refer to Figure 1.

TABLE 5: WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE
IN GENERAL USE WATERS OF ALL RIVER SYSTEMS IN 2010

Parameter	Estimated Percent Compliance ¹		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	94.7	97.2	99.6
pH	95.8	100.0	99.4
Chloride	90.1	94.5	92.7
Total Dissolved Solids	83.3	78.4	85.8
Sulfate	100.0	89.5	100.0
Fecal Coliform	54.8	50.3	62.5
Total Hexavalent Chromium	100.0	100.0	99.5
Soluble Copper	100.0	100.0	99.6

¹Based on the total number of samples in compliance divided by the total number of samples collected, multiplied by 100.

FIGURE 2: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2009 AND 2010

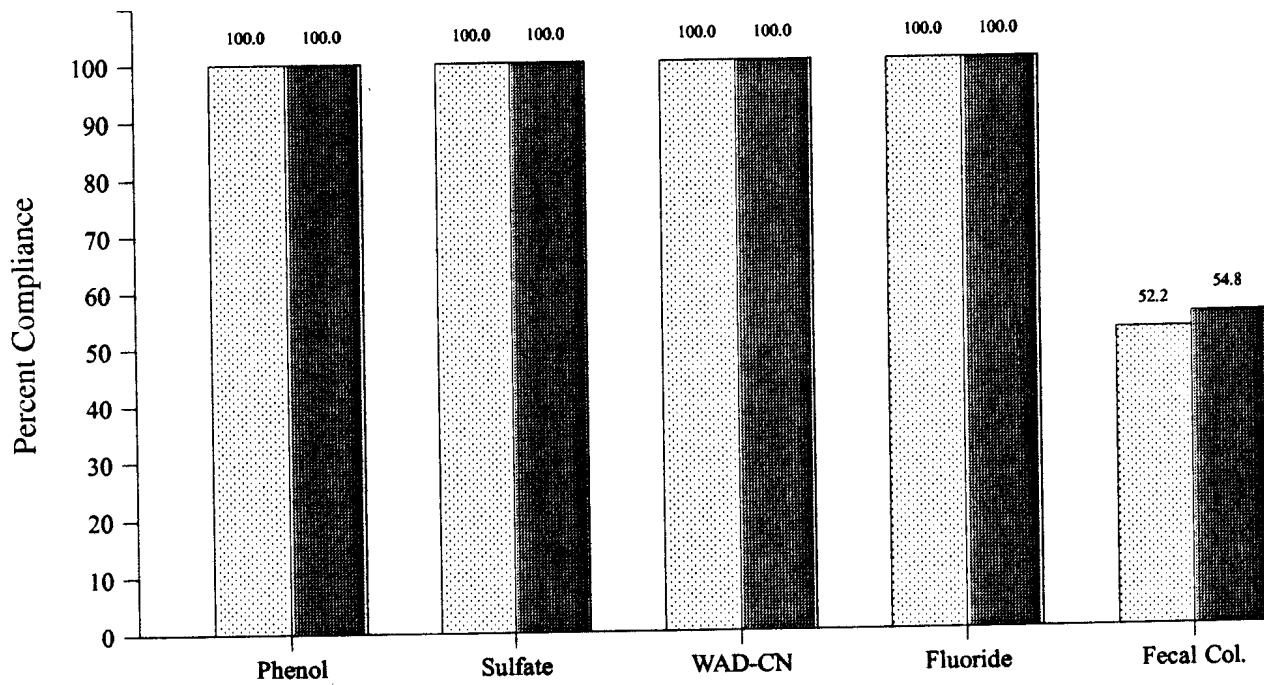
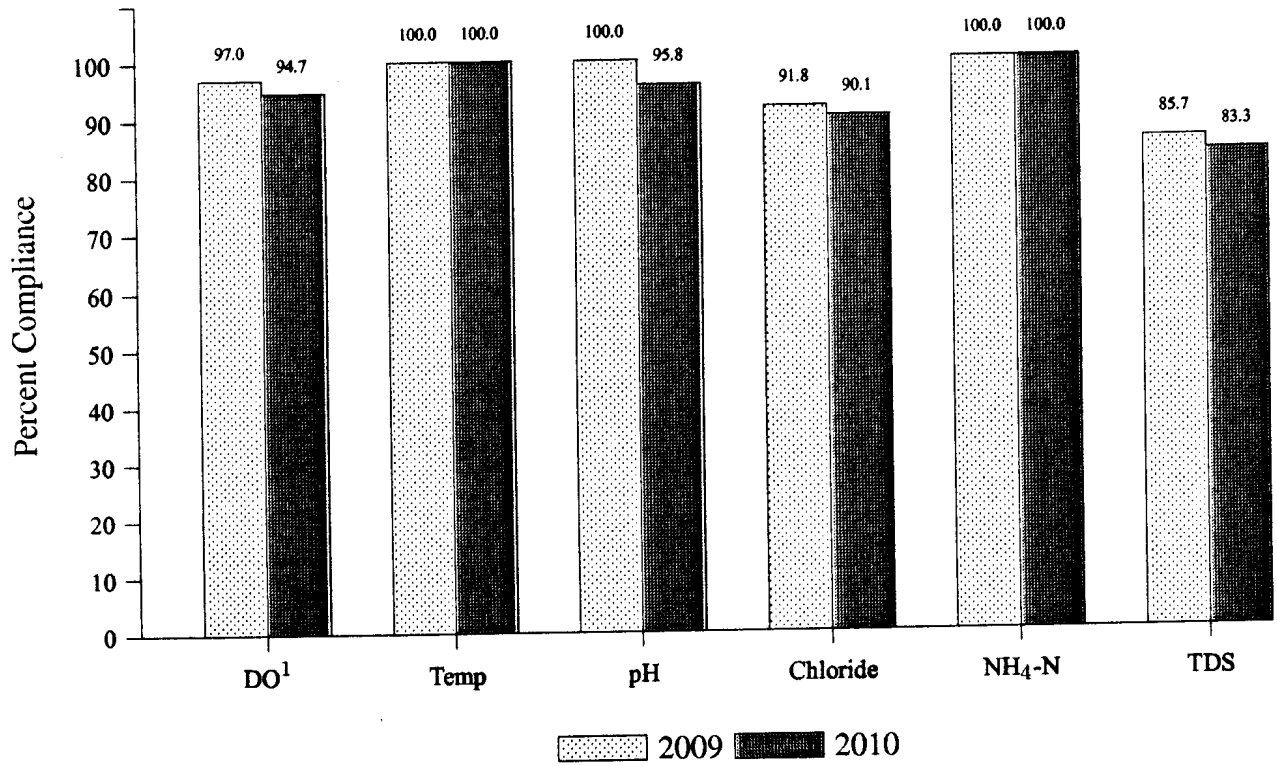


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2009 AND 2010

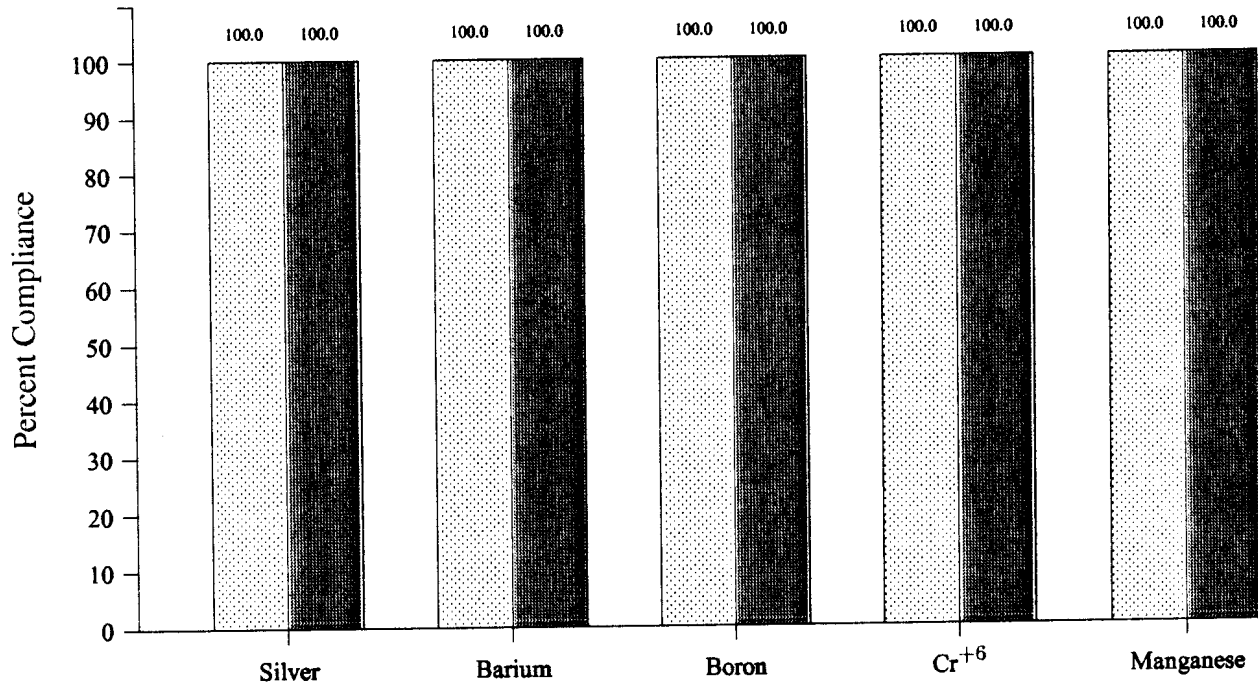
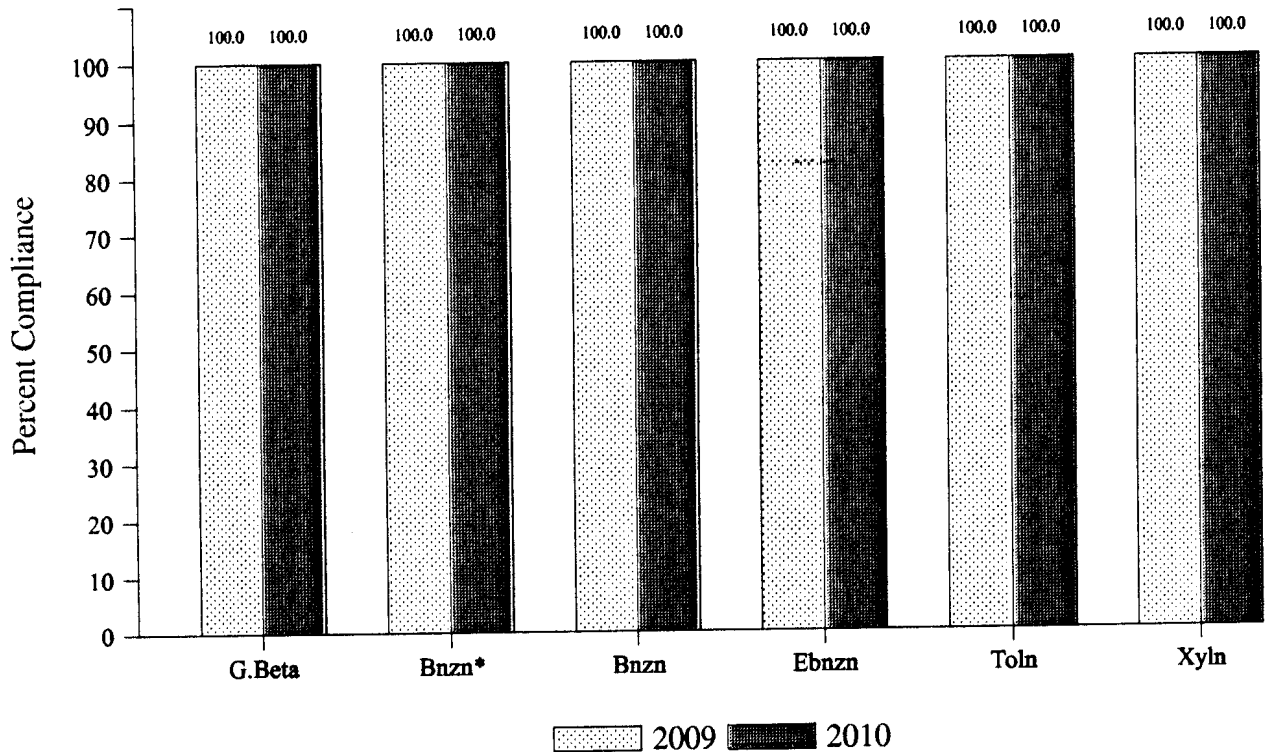
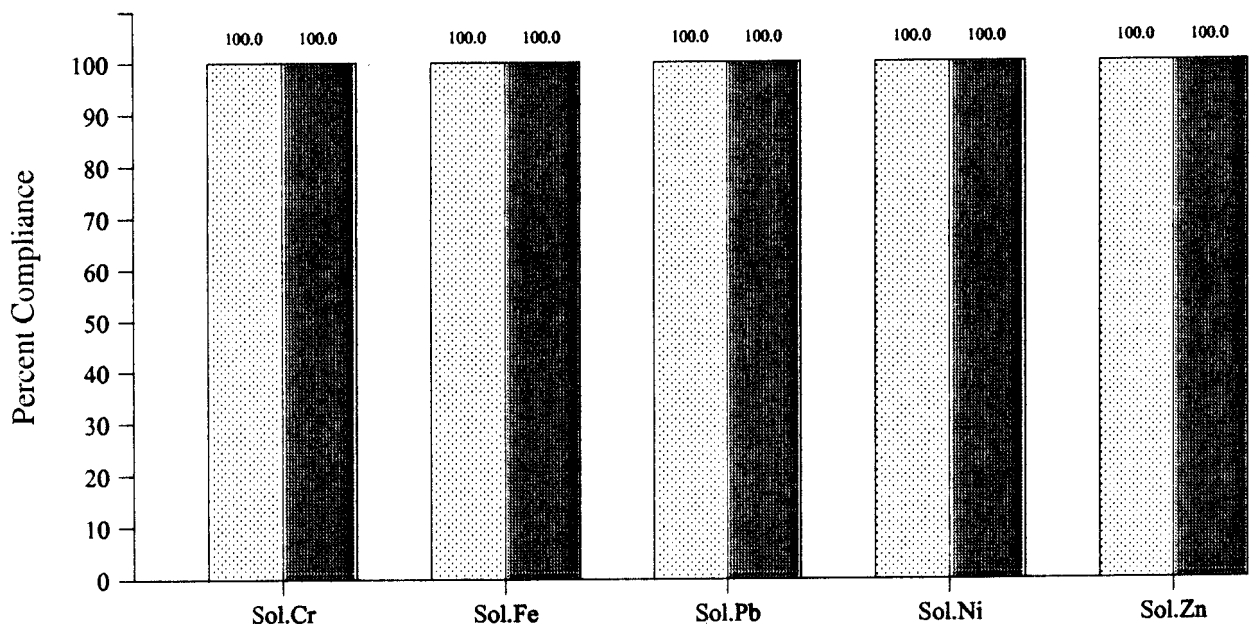
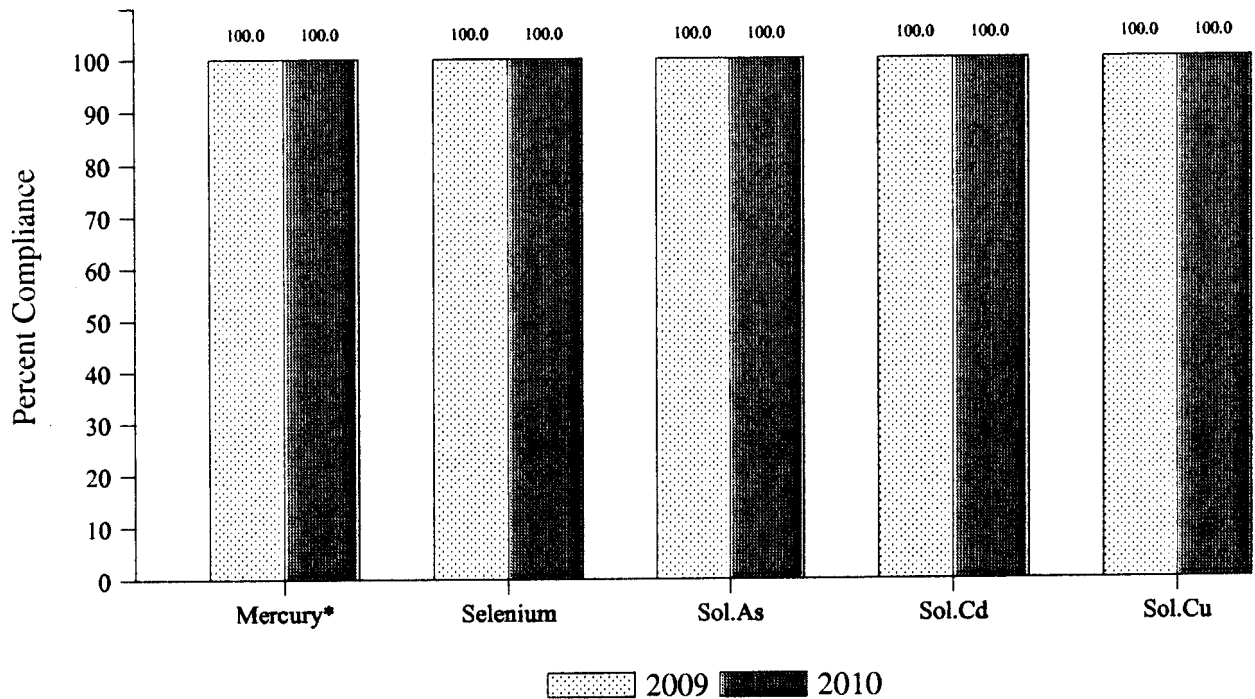


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2009 AND 2010



¹DO standard for general use waters is 5.0 mg/L from March through July, otherwise 3.5 mg/L.

*Human Health Standard became effective in General Use Waters in December, 2002.

FIGURE 3: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2009 AND 2010

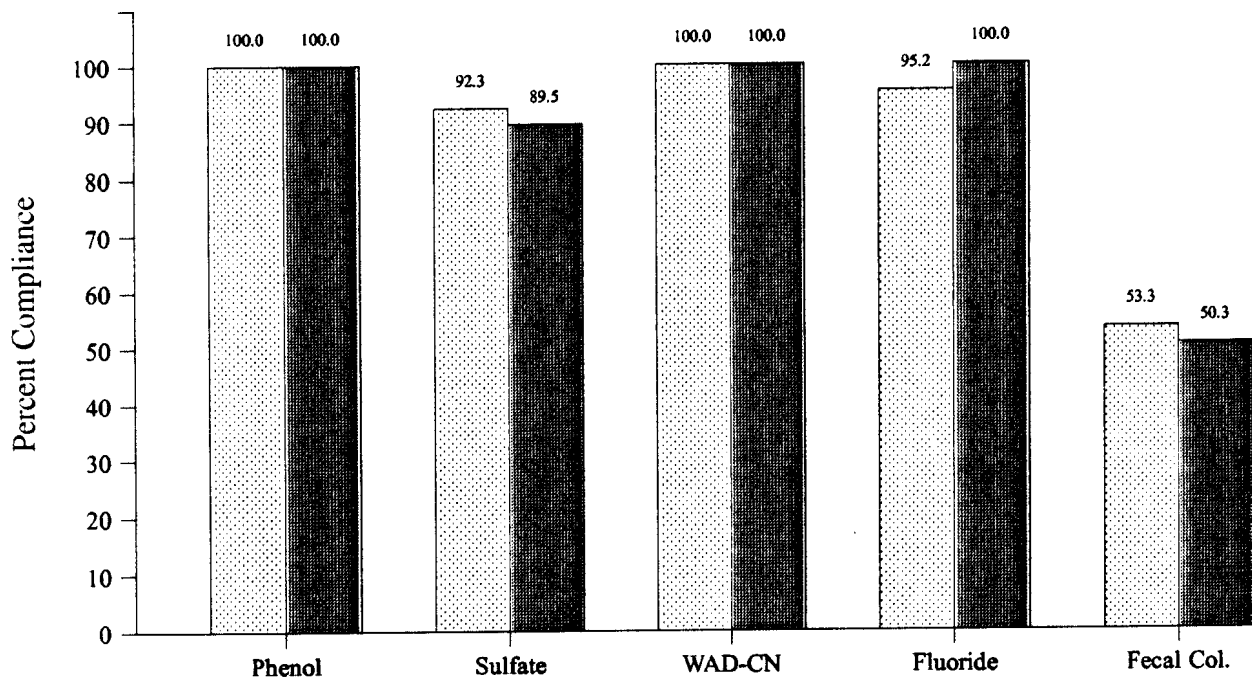
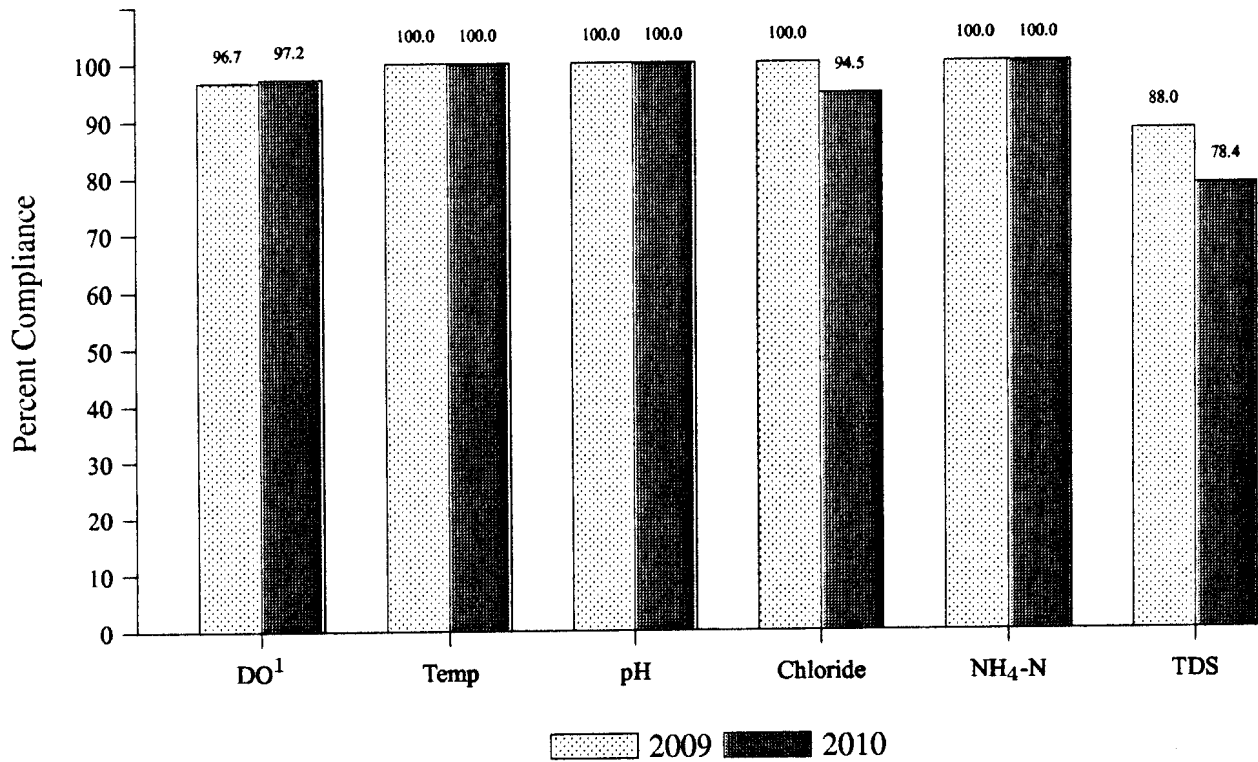


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2009 AND 2010

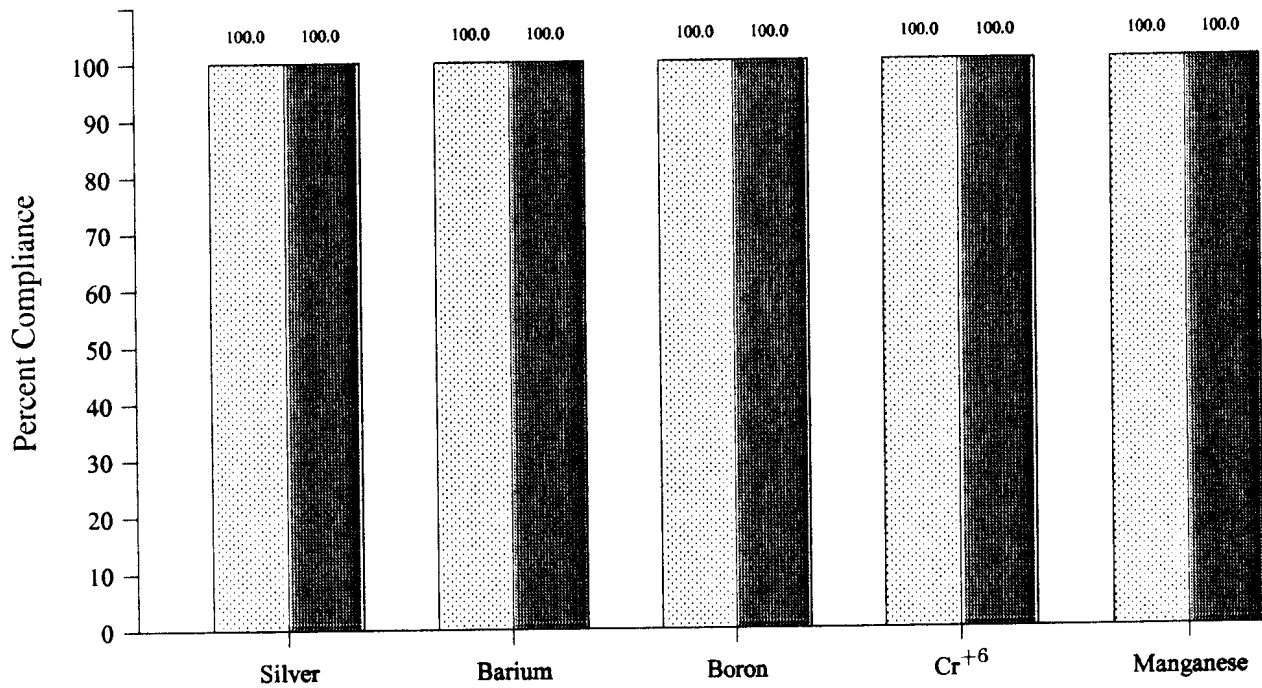
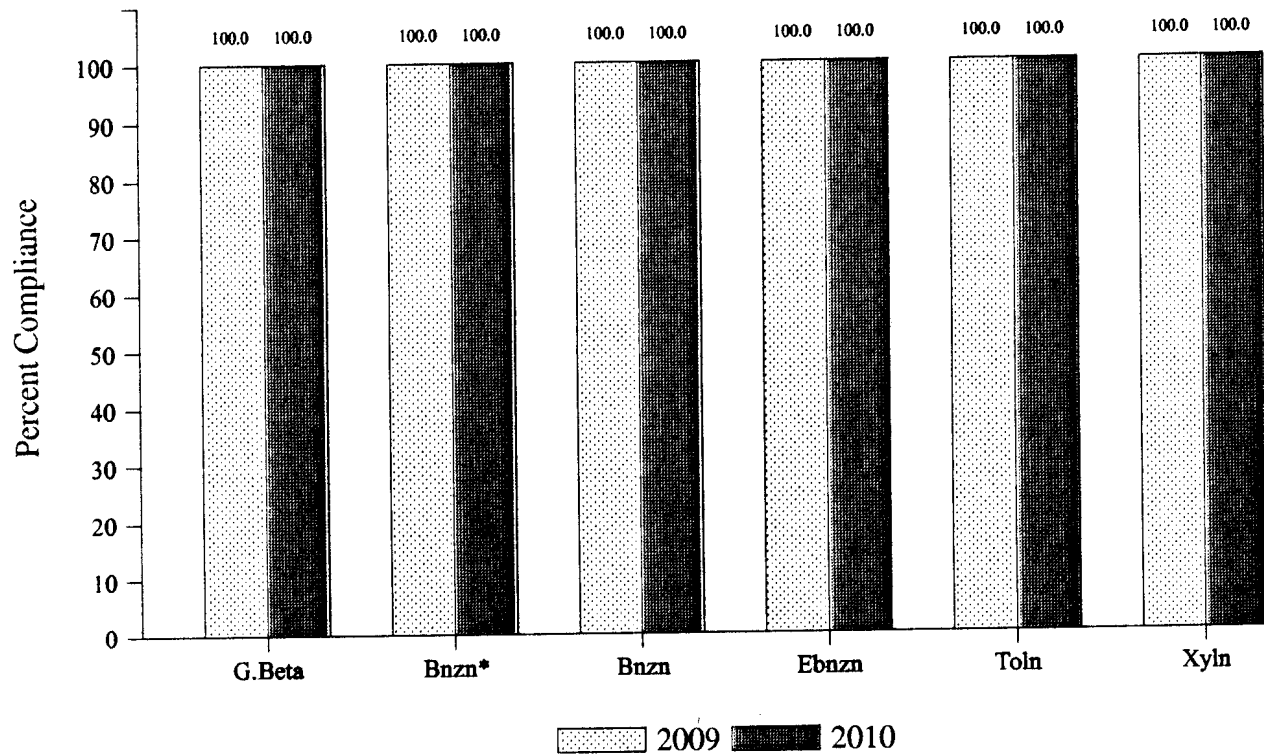
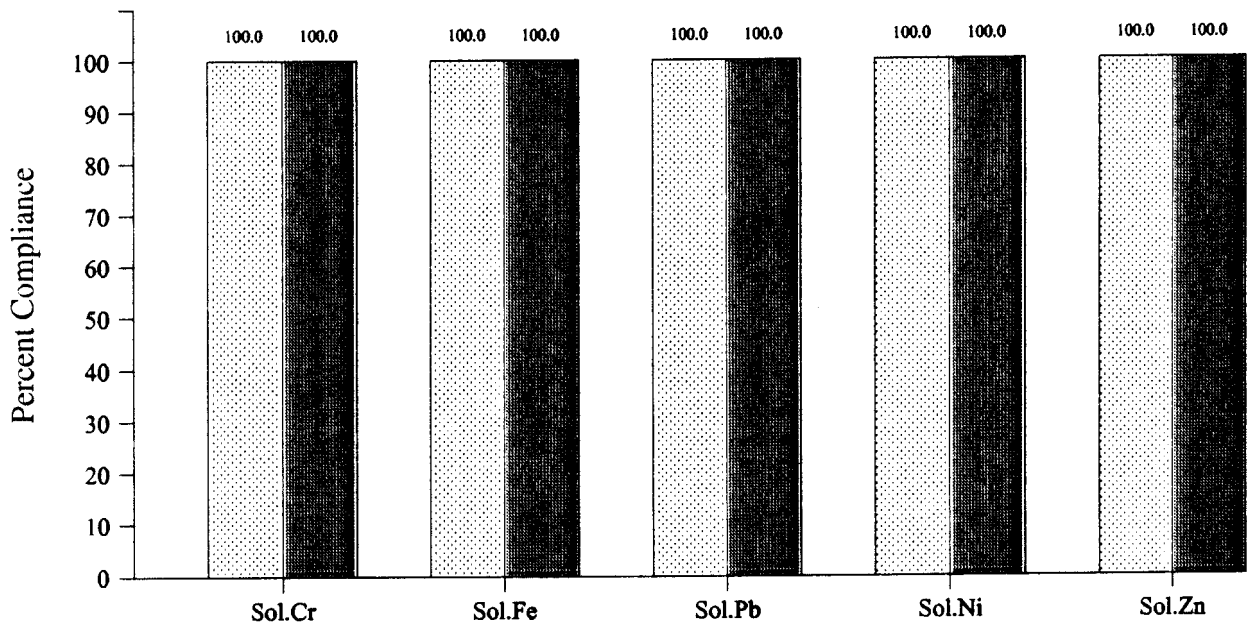
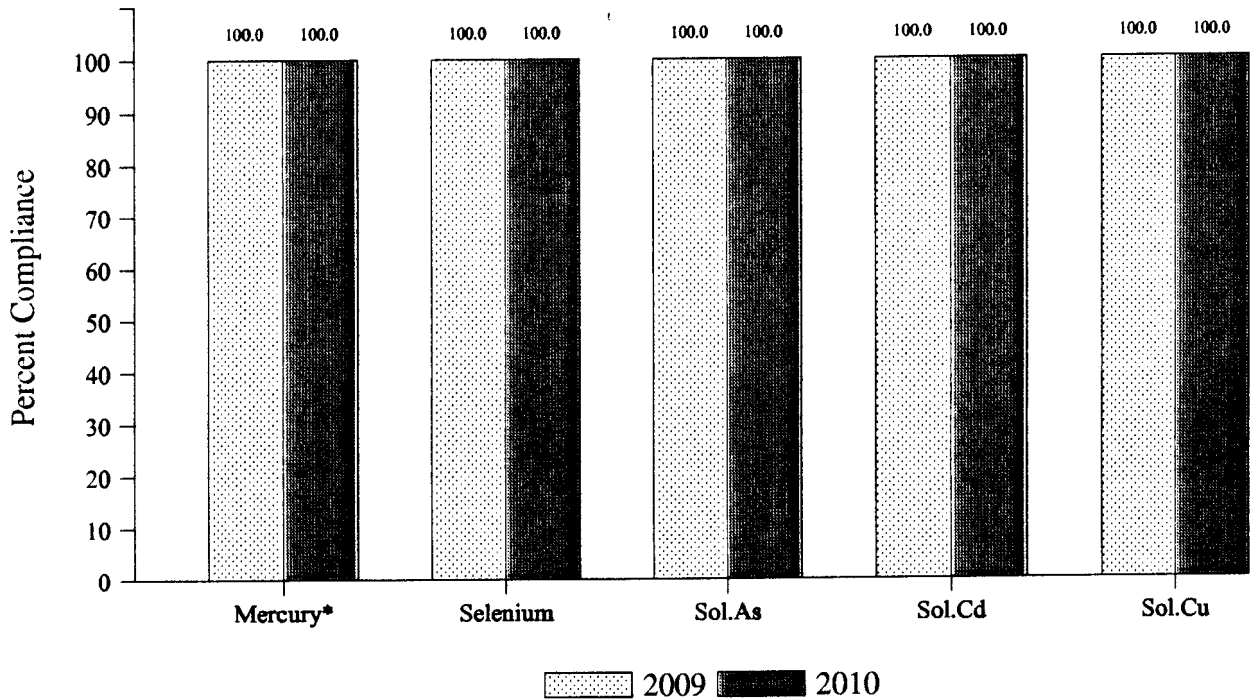


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2009 AND 2010



¹DO standard for general use waters is 5.0 mg/L from March through July, otherwise 3.5 mg/L.

*Human Health Standard became effective in General Use Waters in December, 2002.

FIGURE 4: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2009 AND 2010

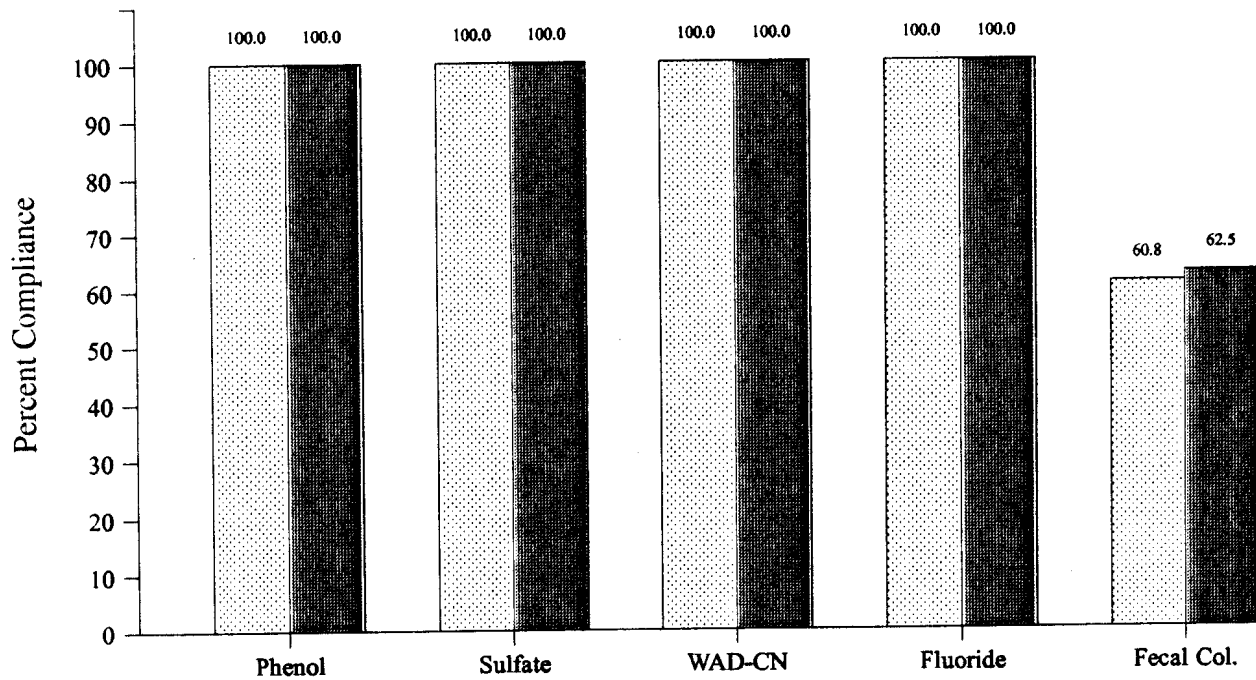
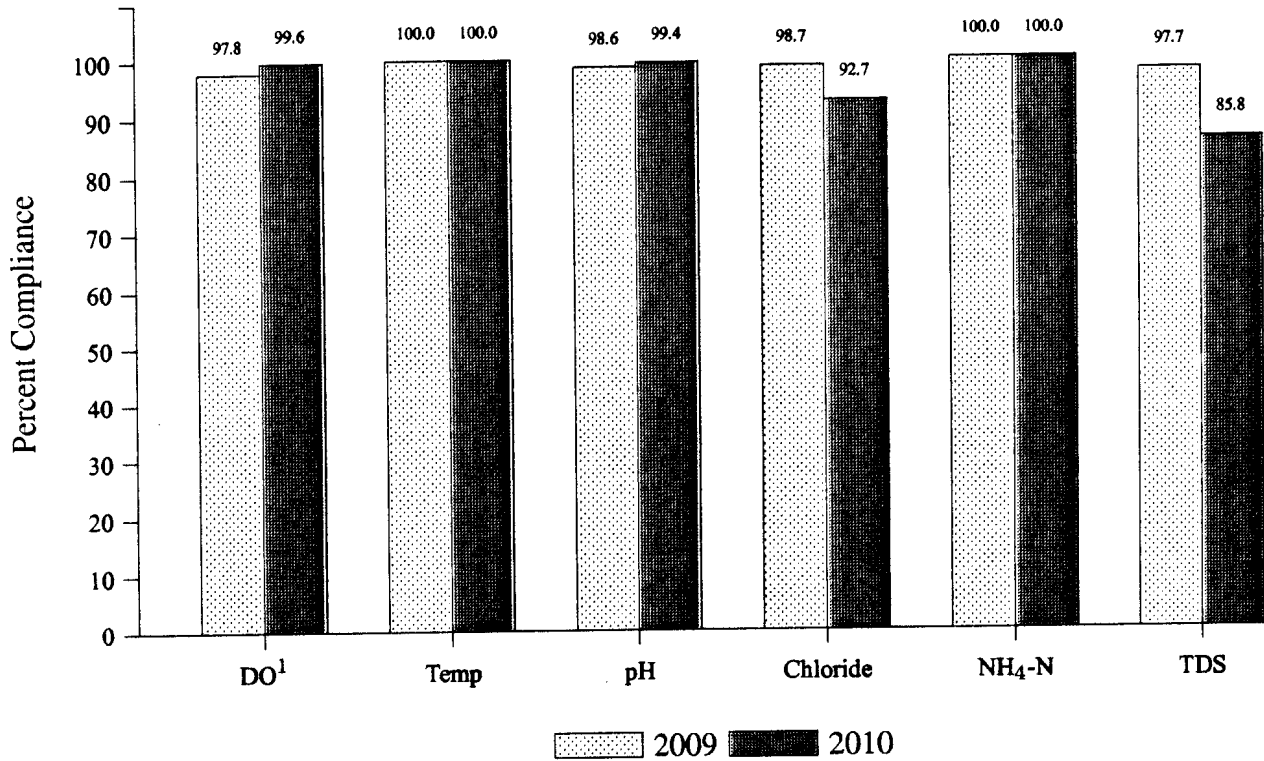


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2009 AND 2010

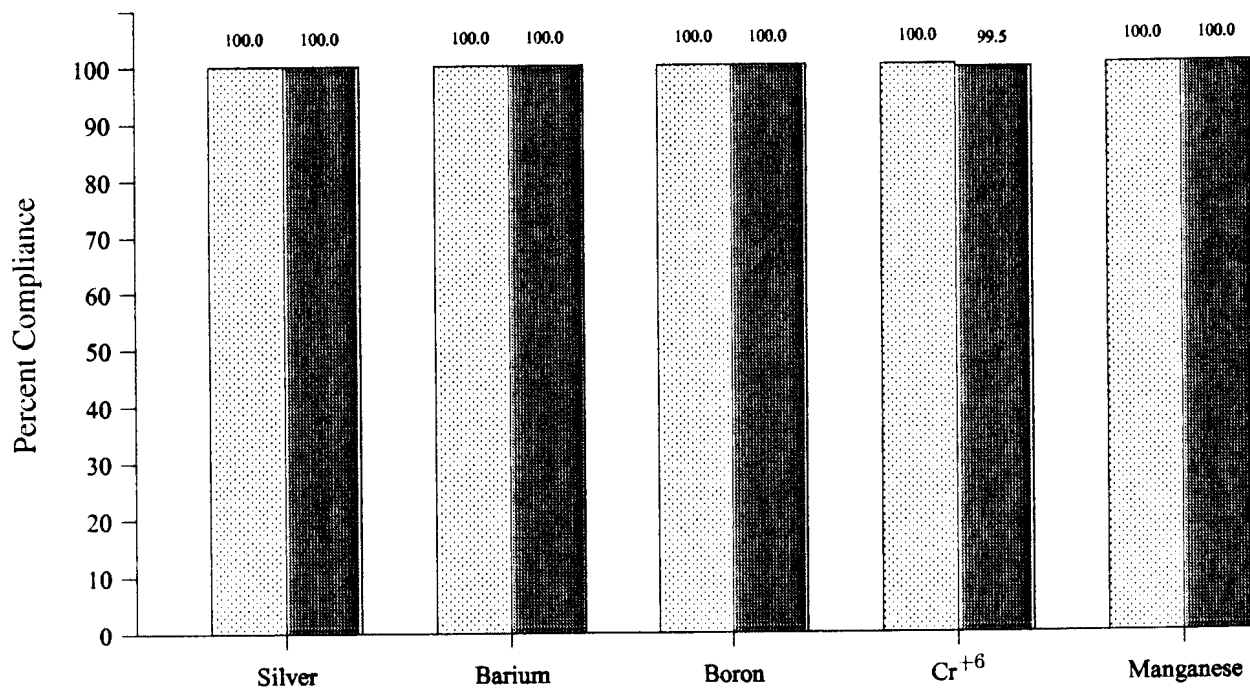
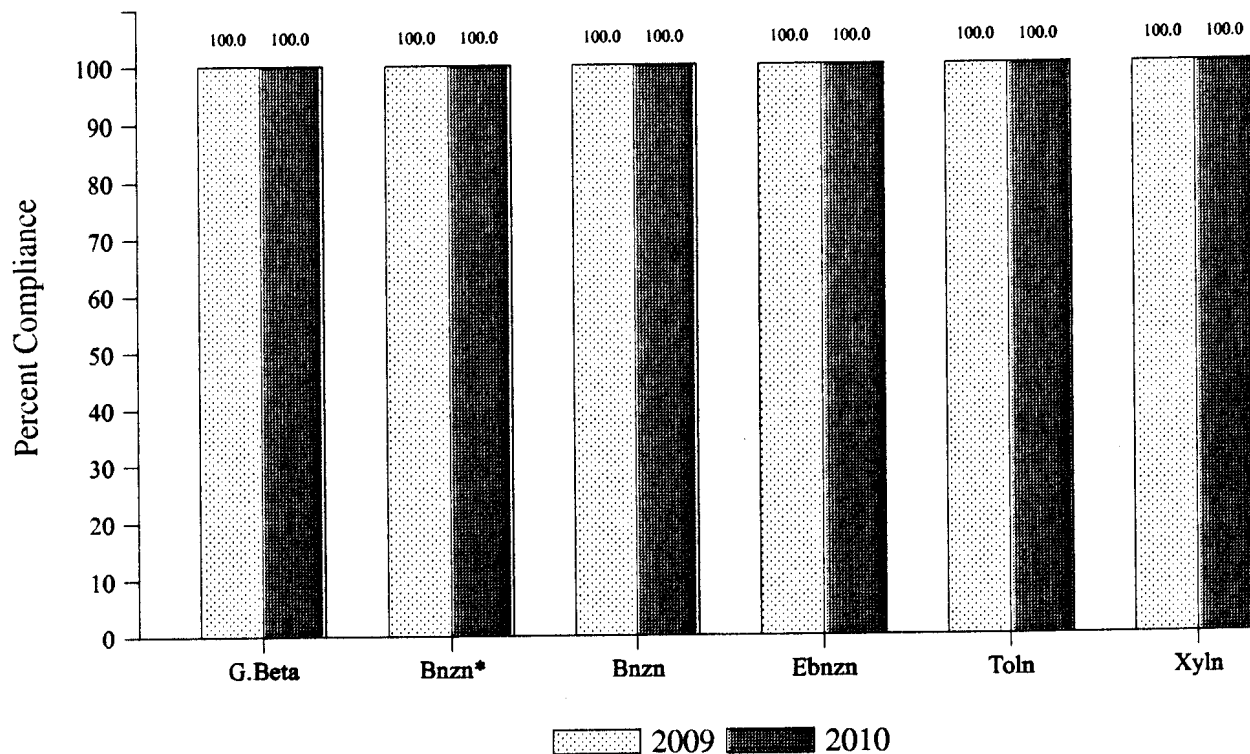
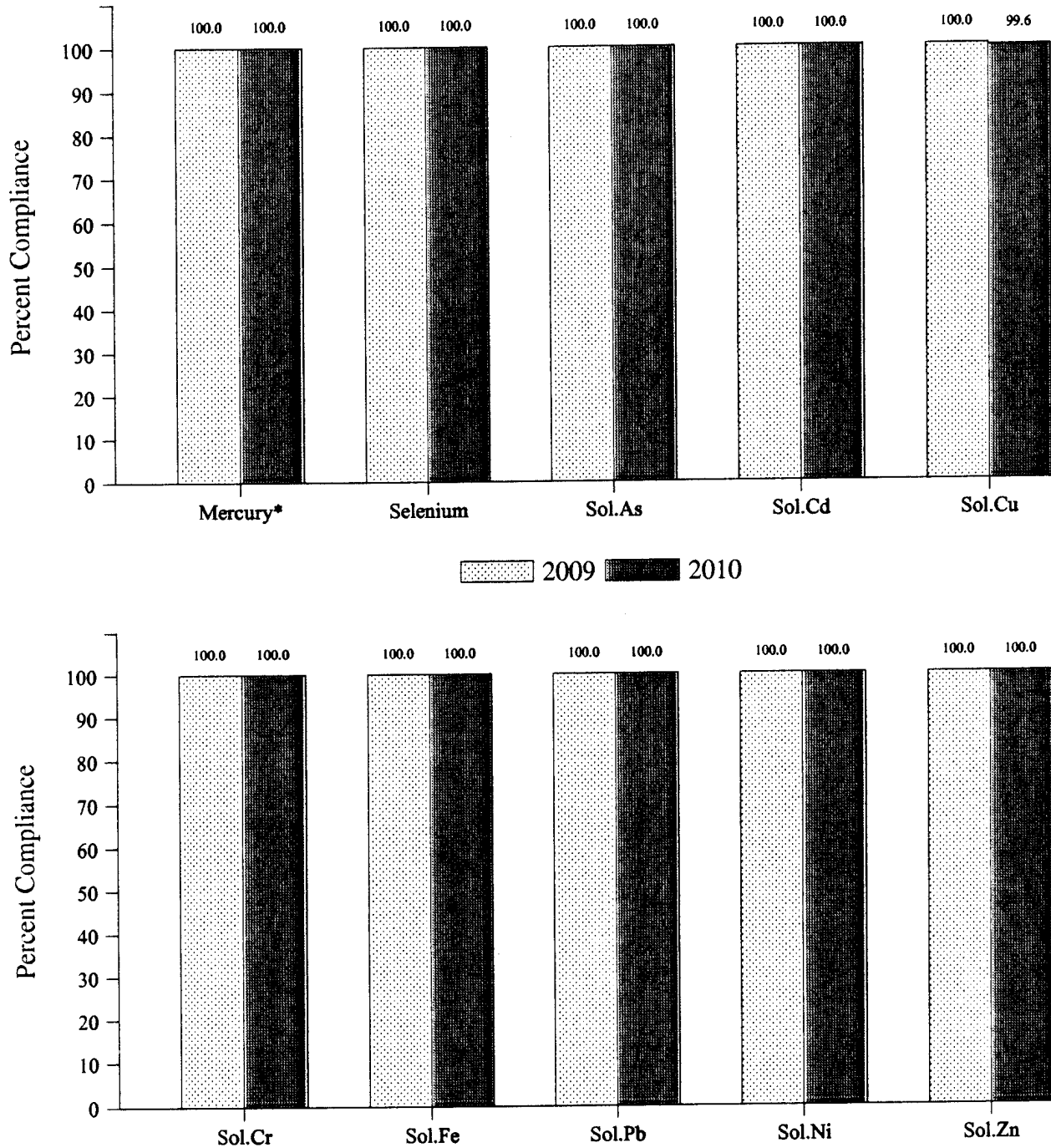


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2009 AND 2010



¹DO standard for general use waters is 5.0 mg/L from March through July, otherwise 3.5 mg/L.

*Human Health Standard became effective in General Use Waters in December, 2002.

Chicago River System. There are 13 sampling locations (30, 106, 103, 31, 104, 32, 105, 34, 96, 35, 102, 74, and 100) in the General Use section of the river system. However, location 30 was not sampled in 2010.

In addition to the 22 parameters listed above, sulfate, total hexavalent chromium, and soluble copper were also in total compliance. Violations of remaining five noncompliant parameters (DO, pH, chloride, total dissolved solids, and fecal coliform) are shown in Table 6. There was no violation due to Human Health Standard.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates except for pH. In the Chicago River System, the compliance rate for pH significantly decreased from total compliance in 2009 to 95.8 percent in 2010.

Calumet River System. There are seven sampling locations (49, 50, 55, 52, 54, 97, and 57) in the General Use section of the river system. In addition to the 22 parameters listed above, pH, total hexavalent chromium, and soluble copper were also in total compliance. Detailed violation records for the noncompliant parameters are shown in Table 7.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates except for chloride. In the Calumet River System, the compliance rate for chloride significantly decreased from total compliance in 2009 to 94.5 percent in 2010.

Des Plaines River System. All 20 sampling locations (90, 89, 64, 79, 80, 18, 24, 109, 77, 78, 12, 13, 17, 19, 20, 22, 23, 29, 91, and 110) of the river system are in General Use Waters. Three sampling locations (110, 89, and 64) on the DuPage River and one sampling location (90) on Poplar Creek are included in this sampling program. In addition to the 22 parameters listed above, sulfate was also in total compliance. Detailed violation records for the noncompliant parameters are shown in Table 8.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates except for chloride and total dissolved solids. In the Des Plaines River System, the compliance rate for chloride significantly decreased from 98.7 percent in 2009 to 92.7 percent in 2010, and the compliance rate for total dissolved solids significantly decreased from 97.7 percent in 2009 to 85.8 percent in 2010.

TABLE 6: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CHICAGO RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	31	1	Jul
	32	1	Jul
	105	1	Jul
	34	1	Jul
	96	1	Jul
	102	2	Apr and Jun
	<u>7</u>		Total violations of Dissolved Oxygen (DO)
pH	35	1	Apr
	102	1	Apr
	74	1	Dec
	100	1	Dec
	<u>4</u>		Total violations of pH (pH)
Cl	106	3	Feb, Mar, and Dec
	103	2	Feb and Mar
	31	1	Mar
	104	1	Mar
	32	1	Mar
	34	1	Mar
	96	2	Mar and Dec
	<u>11</u>		Total violations of Chloride (Cl)
TDS	106	5	Feb, Mar, Apr, May, and Dec
	103	4	Feb, Mar, Apr, and May
	31	3	Mar, Apr, and May
	104	1	Mar
	32	1	Mar
	105	1	Mar
	34	2	Feb and Mar
	96	3	Feb, Mar, and Dec
	<u>20</u>		Total violations of Total Dissolved Solids (TDS)
FC	106	9	Feb, Mar, Apr, May, Jul, Aug, Sep, Nov, and Dec
	103	6	Feb, Mar, Jun, Jul, Aug, and Sep

TABLE 6 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
 GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
 THE CHICAGO RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
FC (Continued)	31	6	Mar, May, Jun, Jul, Aug, and Sep
	104	2	Aug and Dec
	32	4	Mar, Jul, Aug, and Nov
	105	2	Jul and Aug
	34	6	Jan, Mar, Apr, May, Jun, and Jul
	96	7	Mar, Jun, Jul, Aug, Sep, Nov, and Dec
	35	2	Jul and Aug
	102	6	Jan, Feb, Mar, Jul, Aug, and Nov
	100	3	Mar, Aug, and Dec
	53	Total violations of Fecal Coliform (FC)	

¹Number of violations in each month is one unless otherwise indicated in the parenthesis.

TABLE 7: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CALUMET RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	54	1	Mar
	57	1	Jun
		<u>2</u>	Total violations of Dissolved Oxygen (DO)
Cl	54	1	Feb
	97	1	Feb
	57	1	Feb
		<u>3</u>	Total violations of Chloride (Cl)
TDS	52	1	Feb
	54	6	Feb, Mar, May, Jun, Sep, and Nov
	97	5	Feb, Mar, Aug, Sep, and Nov
	57	2	Feb and Nov
		<u>14</u>	Total violations of Total Dissolved Solids (TDS)
SO ₄	54	4	Feb, Mar, Sep, and Nov
	97	3	Aug, Sep, and Nov
		<u>7</u>	Total violations of Sulfate (SO₄)
FC	55	1	Oct
	52	11	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, and Nov
	54	7	Jan, Feb, Mar, Apr, Jun, Jul, and Nov
	97	7	Jan, Apr, Jun, Jul, Sep, Oct, and Nov
	57	7	Jan, Feb, Apr, Jun, Aug, Oct, and Nov
		<u>33</u>	Total violations of Fecal Coliform (FC)

¹Number of violations in each month is one unless otherwise indicated in the parenthesis.

TABLE 8: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE DES PLAINES RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	12	1	Apr
		<u>1</u>	Total violations of Dissolved Oxygen (DO)
pH	110	1	Nov
		<u>1</u>	Total violations of pH (pH)
Cl	90	1	Mar
	64	1	Mar
	80	1	Mar
	18	1	Mar
	24	1	Mar
	109	1	Mar
	77	1	Apr
	12	1	Mar
	17	1	Mar
	19	1	Mar
	20	1	Mar
	22	1	Mar
	23	1	Mar
	29	1	Mar
	91	1	Mar
			<u>15</u>	Total violations of Chloride (Cl)
TDS	90	1	Mar
	89	1	Mar
	64	1	Mar
	80	3	Mar, Apr, and May
	18	3	Mar, Apr, and May
	24	2	Feb and Mar
	109	3	Feb, Mar, and Dec
	77	1	Apr
	78	1	Mar
	12	1	Mar
	13	1	Mar
	17	1	Mar

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE DES PLAINES RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
TDS (Continued)	19	2	Mar and Dec
	20	2	Mar and Dec
	22	2	Mar and Dec
	23	1	Mar
	29	1	Mar
	91	1	Mar
		28	Total violations of Total Dissolved Solids (TDS)
FC	90	1	Apr
	89	7	Jan, Feb, Mar, Apr, Jul, Nov, and Dec
	64	4	Jan, Feb, Mar, and Apr
	79	2	Apr and Aug
	80	4	Mar, Apr, Nov, and Dec
	18	6	Mar, Apr, Jul, Oct, Nov, and Dec
	24	5	Jan, Mar, Apr, May, and Dec
	109	6	Feb, Apr, May, Jun, Aug, and Dec
	78	5	Jan, Feb, Mar, Apr, and Aug
	12	1	Jun
	13	3	Mar, Apr, and Jun
	17	4	Apr, Jun, Jul, and Aug
	19	4	Apr, Jun, Aug, and Dec
	20	2	Apr and Dec
	22	5	Apr, Jun, Aug, Oct, and Dec
	23	4	Apr, Jun, Sep, and Oct
	29	2	Apr and Dec
110	7	Apr, May, Jul, Aug, Sep, Oct, and Nov	
	72	Total violations of Fecal Coliform (FC)	
Cr ⁺⁶	23	1	Jun
		1	Total violations of Total Hexavalent Chromium (Cr⁺⁶)
Sol. Cu	78	1	May
		1	Total violations of Soluble Copper (Sol. Cu)

¹Number of violations in each month is one unless otherwise indicated in the parenthesis.

COMPLIANCE WITH WATER QUALITY STANDARDS IN SECONDARY CONTACT WATERS

Sampling Locations and Frequencies

As shown in Figure 1, the waters designated as Secondary Contact Waters include the principal man-made canals in the Chicago and Calumet River Systems. The sampling locations used during 2010 and the annual frequencies of sampling are shown in Table 9. Also, Tables AII-2 through AII-45 show the number of violations and the annual sampling frequencies. In 2002, grab samples were collected at the Lockport Powerhouse (Chicago River System) once per week, but sampling at this location was discontinued after April 2002. Sampling at the Lockport Powerhouse was replaced by the collection of weekly grab samples at Location 92 (Lockport Forebay) in 2002. Location 92 was sampled 52 times in 2010.

River System Compliance Data

In the Secondary Contact Waters, 67 parameters were analyzed in 2010, of which 23 parameters were subject to IPCB Water Quality Standards. They were DO; temperature; pH; un-ionized ammonia; total dissolved solids; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total iron; total lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron. Summary results, including means and compliance standards, are shown in Appendix AII for the Chicago and Calumet River Systems.

Generally, compliance with IPCB standards was high in 2010 in both the Chicago and Calumet River Systems. Eighteen water quality parameters were in complete compliance in both of these river systems. They were temperature; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron.

The compliance rates for 23 water quality parameters with Secondary Contact Standards for the Chicago and Calumet River Systems are presented in Figures 5 and 6, respectively.

The five water quality parameters which were not in complete compliance in both of the river systems are listed in Table 10 with observed percent compliance.

Chicago River System. Violations of the pertinent Secondary Contact Standards for the remaining three parameters (DO, pH, and total dissolved solids) occurred in at least one of the locations sampled. The compliance rates of these three parameters ranged from 95.9 to 99.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 11.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates for all parameters in the two river systems.

TABLE 9: LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF SECONDARY CONTACT WATERS IN 2010

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
36	Touhy Avenue, North Shore Channel	11
101	Foster Avenue, North Shore Channel	12
37	Wilson Avenue, North Branch Chicago River	12
73	Diversey Parkway, North Branch Chicago River	12
46	Grand Avenue, North Branch Chicago River	12
39	Madison Street, South Branch Chicago River	12
108	Loomis Street, South Branch Chicago River	11
99	Archer Avenue, South Fork South Branch Chicago River	10
40	Damen Avenue, Chicago Sanitary & Ship Canal	12
75	Cicero Avenue, Chicago Sanitary & Ship Canal	12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	9
42	Route 83, Chicago Sanitary & Ship Canal	12
48	Stephen Street, Chicago Sanitary & Ship Canal	12
92	Lockport Forebay, Chicago Sanitary & Ship Canal	51
		<u>200</u>
<u>Calumet River System</u>		
86	Burnham Avenue, Grand Calumet River	7
56	Indiana Avenue, Little Calumet River	10
76	Halsted Street, Little Calumet River	10
58	Ashland Avenue, Calumet-Sag Channel	10
59	Cicero Avenue, Calumet-Sag Channel	10
43	Route 83, Calumet-Sag Channel	11
		<u>58</u>

¹Refer to Figure 1.

FIGURE 5: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2009 AND 2010

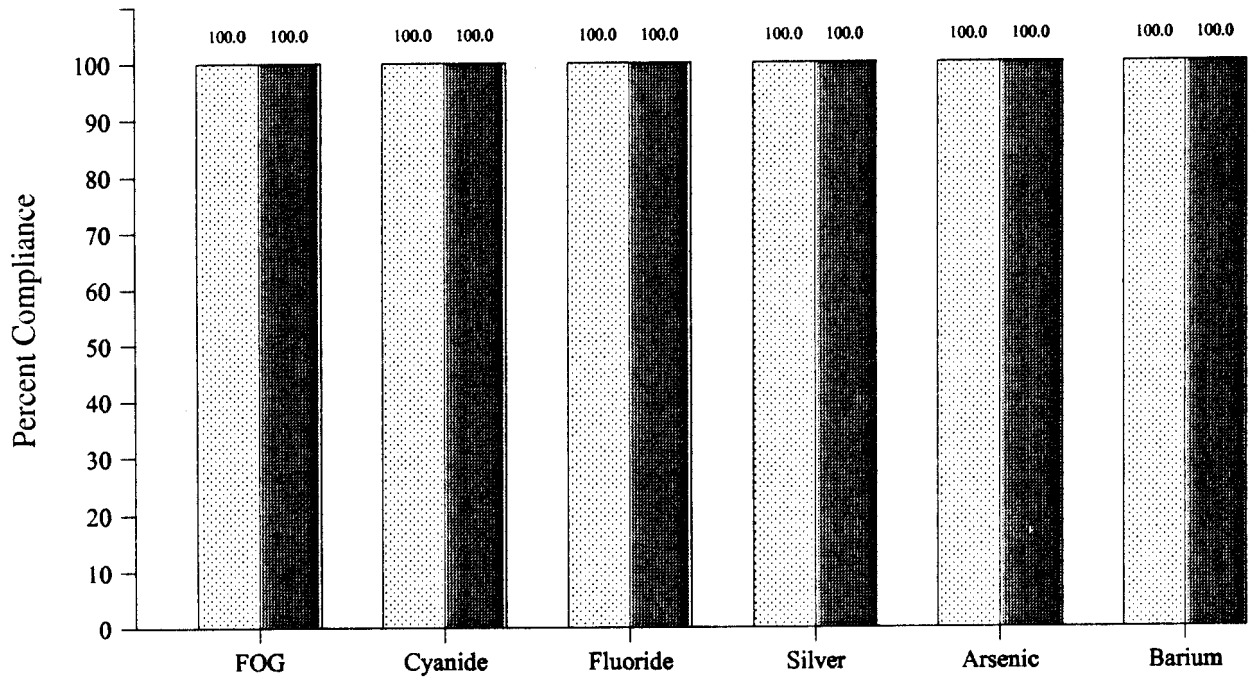
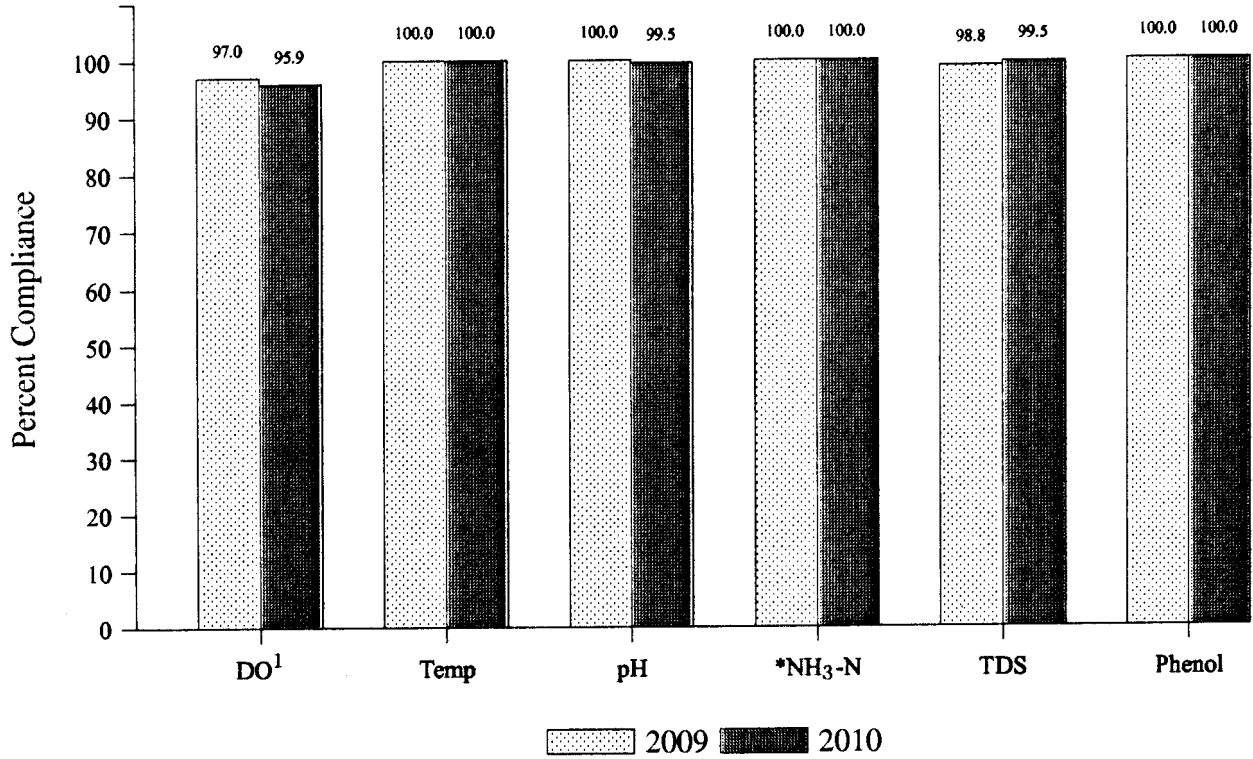
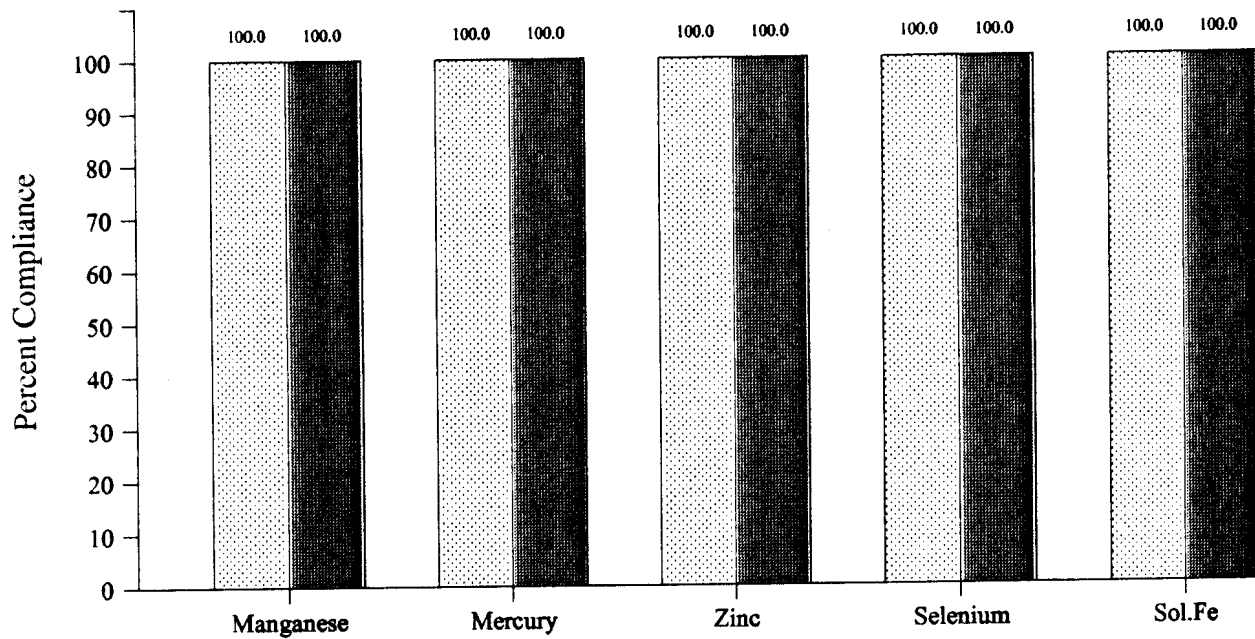
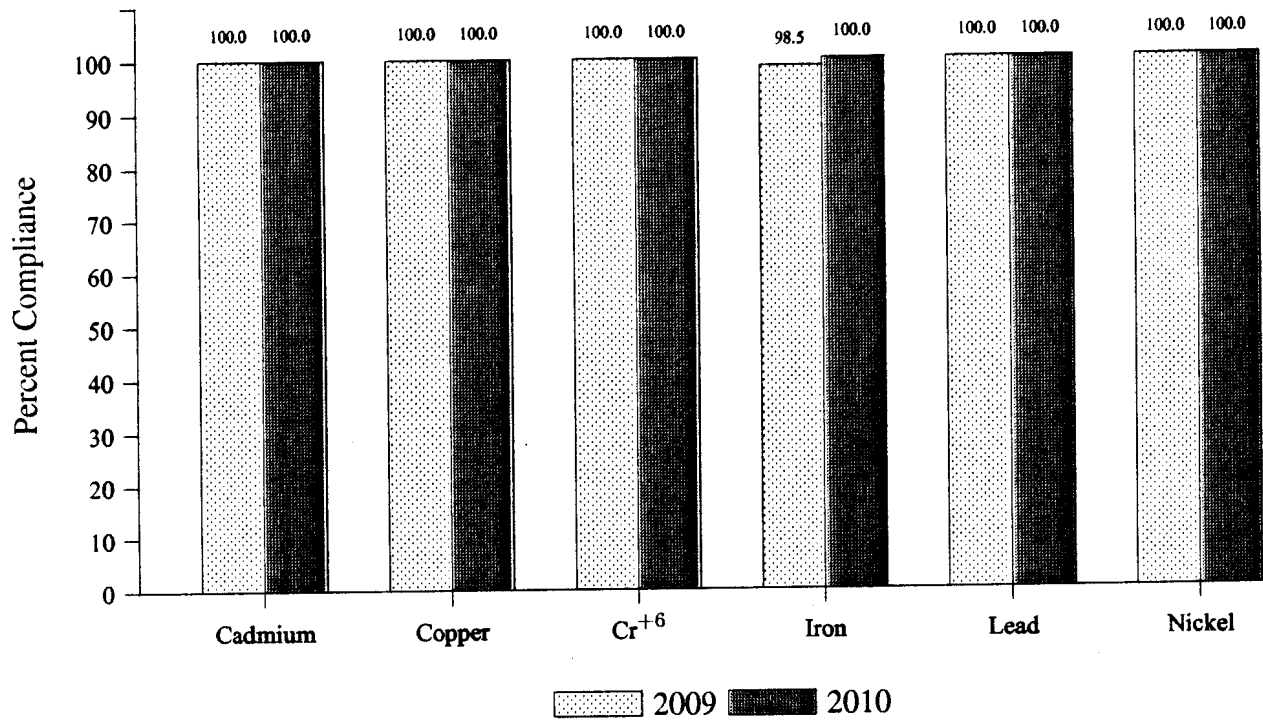


FIGURE 5 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2009 AND 2010



*NH₃-N = Un-ionized Ammonia.

FIGURE 6: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2009 AND 2010

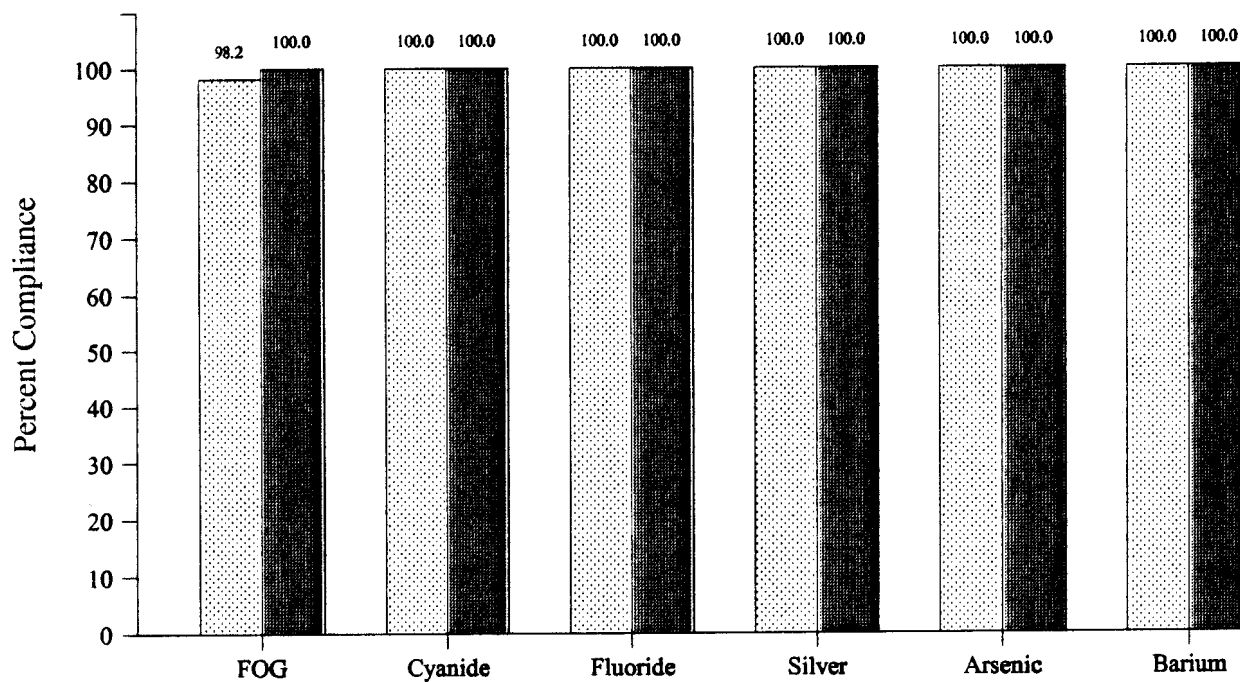
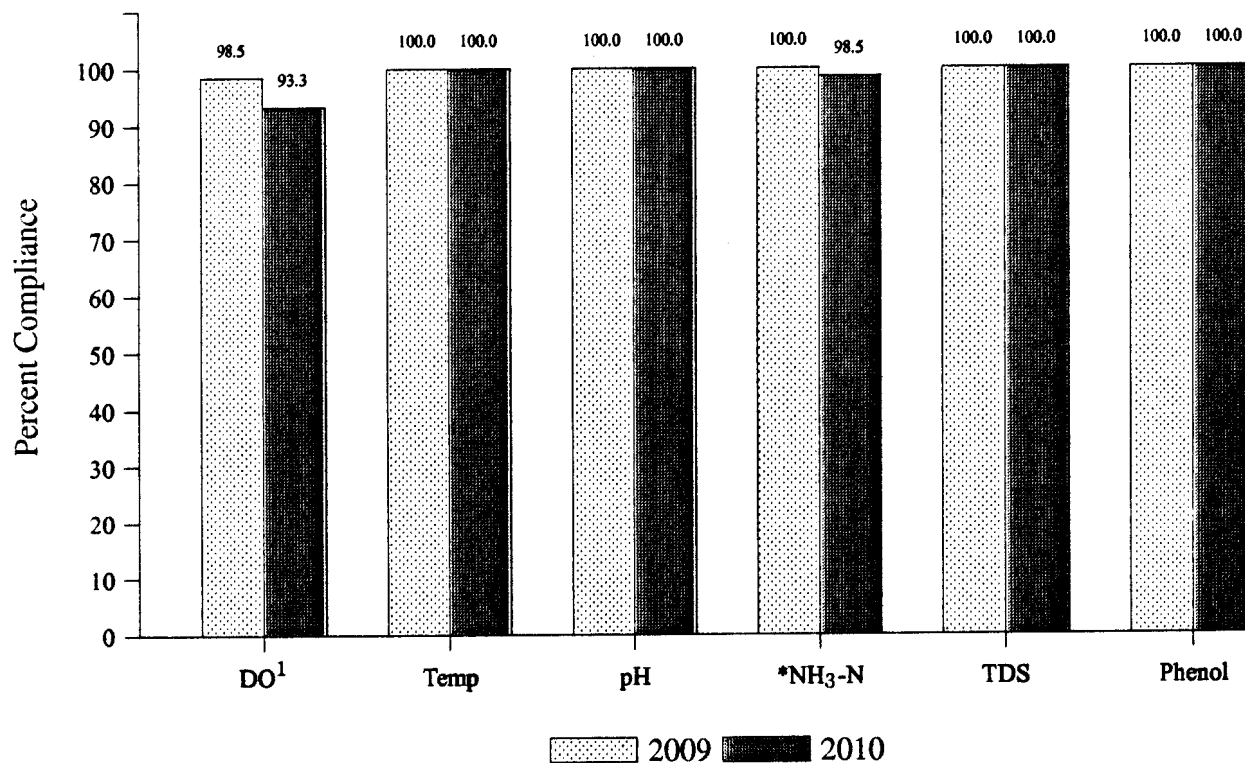
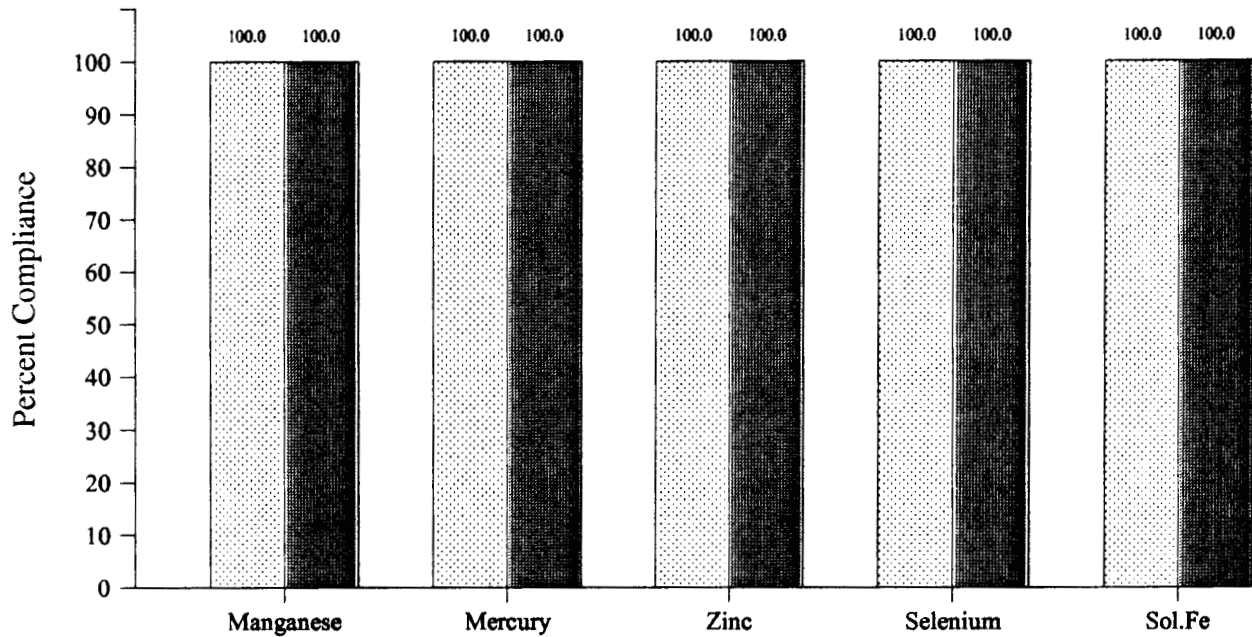
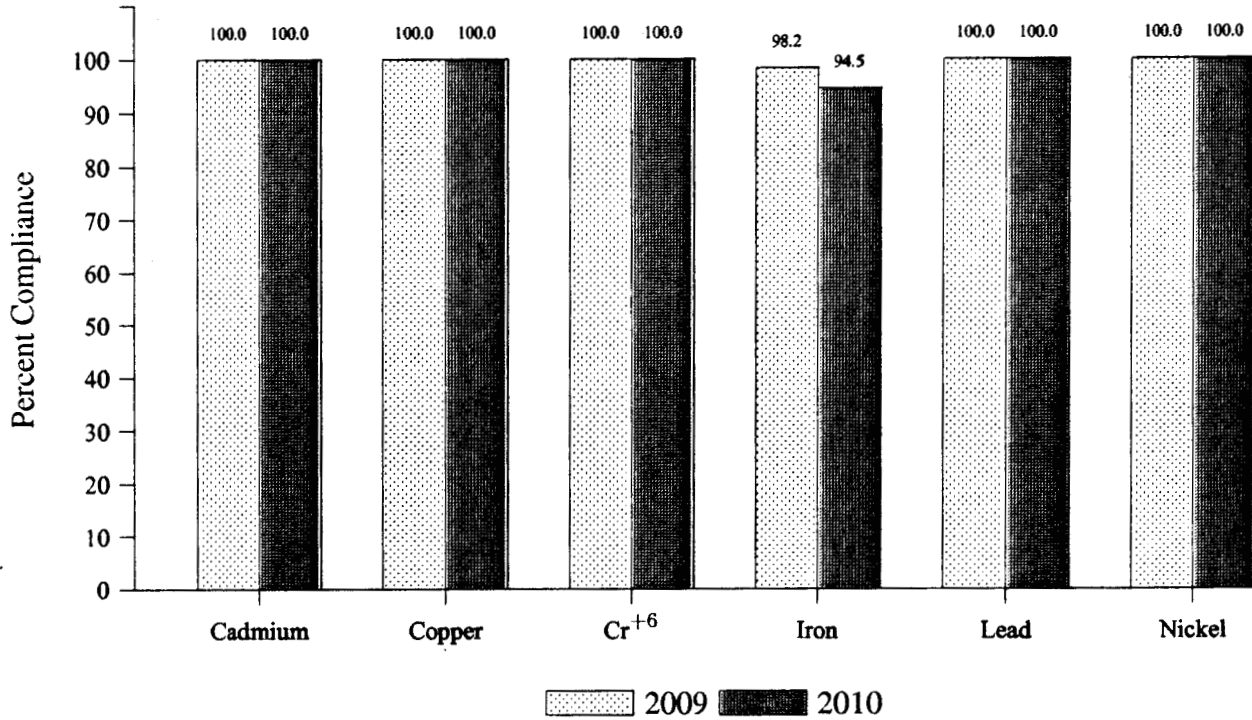


FIGURE 6 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2009 AND 2010



*NH₃-N = Un-ionized Ammonia.

TABLE 10: WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE
IN SECONDARY CONTACT WATERS OF ALL RIVER SYSTEMS IN 2010

Parameter	Estimated Percent Compliance ¹	
	Chicago	Calumet
Dissolved Oxygen	95.9	93.3
pH	99.5	100.0
Un-ionized Ammonia	100.0	98.5
Total Dissolved Solids	99.5	100.0
Total Iron	100.0	94.5

¹Based on the total number of samples in compliance divided by the total number of samples collected, multiplied by 100.

TABLE 11: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CHICAGO RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	73	1	Jul
	99	1	May
	92	6	Jun(2), Jul(2), Aug, and Sep
		8	Total violations of Dissolved Oxygen (DO)
pH	39	1	Dec
		1	Total violations of pH (pH)
TDS	92	1	Feb
		1	Total violations of Total Dissolved Solids (TDS)

¹Number of violations in each month is one unless otherwise indicated in the parenthesis.

Calumet River System. In addition to the 18 parameters listed above, pH and total dissolved solids were also in total compliance. Violations of the pertinent Secondary Contact Standards for the remaining three parameters (DO, un-ionized ammonia, and total iron) occurred in at least one of the locations sampled. The compliance rates of these three parameters ranged from 93.3 to 98.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 12.

A comparison of 2010 data with 2009 data indicated that there was no significant difference between 2010 and 2009 compliance rates for all parameters in the two river systems.

TABLE 12: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CALUMET RIVER SYSTEM IN 2010

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	86	$\frac{4}{4}$	Jun, Jul, Aug, and Oct Total violations of Dissolved Oxygen (DO)
NH ₃ -N	86	$\frac{1}{1}$	Aug Total violations of Un-ionized Ammonia (NH₃-N)
Fe	86 58 59	1 1 1 $\frac{3}{3}$	Jul Jan Jan Total violations of Total Iron (Fe)

¹Number of violations in each month is one unless otherwise indicated in the parenthesis.

COMPLIANCE WITH RECEIVING WATER QUALITY STANDARDS UPSTREAM AND DOWNSTREAM OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO OUTFALLS

Surface Water Sample Locations and Sample Frequencies

The District currently operates seven WRPs. The receiving waters upstream and downstream of the outfalls (the discharge points of the effluent from the WRPs) for six of these WRPs were sampled during 2010. Three of these WRPs (Hanover Park, John E. Egan, and James C. Kirie) discharge their treated effluents into General Use Waters. The North Side, Stickney, and Calumet WRPs discharge their effluents into Secondary Contact Waters. During 2010, the lack of an upstream sampling location for the Lemont WRP which was downstream of the Calumet-Sag junction precluded an evaluation. Upstream and downstream sampling locations, as well as annual sampling frequencies for the respective WRPs, are shown in Table 13.

The outfalls for Hanover Park, John E. Egan, and James C. Kirie WRPs are located in the West Branch of the DuPage River, Salt Creek, and Higgins Creek, respectively. More specifically, the sampling stations for the plants that discharge to General Use Waters are located as follows:

1. The upstream station for the Hanover Park WRP is located at Long Meadow Lane, 100 feet above the outfall, and the downstream station is located at Walnut Lane, 1,000 feet below the outfall.
2. The upstream station for the John E. Egan WRP is located at Higgins Road, 7,500 feet above the outfall, and the downstream station is located at Arlington Heights Road, 1,300 feet below the outfall.
3. The upstream sampling point for the James C. Kirie WRP is located at Elmhurst Road, about 1,000 feet upstream of the outfall, while the downstream station is at the Wille Road Bridge, about 300 feet downstream of the outfall.

Specific locations of WRPs which have outfalls located within the Secondary Contact Waters of the District's canal system are:

1. The North Side WRP discharges its treated effluent into the North Shore Channel. The upstream and downstream sample points are located at Central Road and Touhy Avenue, respectively. Central Road is 17,000 feet above the outfall, and Touhy Avenue is 3,600 feet below.
2. The upstream and downstream sample points for the Stickney WRP are Cicero Avenue and Harlem Avenue, respectively, both on the Chicago Sanitary and Ship Canal. Cicero Avenue is 7,900 feet above and Harlem Avenue is 9,200 feet below the outfall.
3. The upstream sample point for the Calumet WRP is located at Indiana Avenue on the Little Calumet River. Downstream samples of the outfall are taken at Halsted Street on the Little Calumet River. Indiana Avenue is 5,500 feet above and Halsted Street is 6,600 feet below the outfall.

TABLE 13: ANNUAL SAMPLING FREQUENCIES AT UPSTREAM AND DOWNSTREAM LOCATIONS OF METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO WATER RECLAMATION PLANTS IN 2010

WRP	Upstream Sample			Downstream Sample		
	Location	No. ¹	Freq.	Location	No. ¹	Freq.
North Side	Central Street, North Shore Channel	35	8	Touhy Avenue, North Shore Channel	36	11
Stickney	Cicero Avenue, Chicago Sanitary & Ship Canal	75	12	Harlem Avenue, Chicago Sanitary & Ship Canal	41	9
Calumet	Indiana Avenue, Little Calumet River	56	10	Halsted Street, Little Calumet River	76	10
John E. Egan	Higgins Road, Salt Creek	79	8	Arlington Heights Road, Salt Creek	80	12
James C. Kirie	Elmhurst Road, Higgins Creek	77	1	Wille Road, Higgins Creek	78	9
Hanover Park	Longmeadow Lane, West Branch DuPage River*	63	0	Walnut Lane, West Branch DuPage River	89	12

¹Location No. of stations are shown in Figure 1.

*Not sampled because the water level was too low to obtain a representative sample without being contaminated by sediment

Annual Summary Results for Water Quality Upstream and Downstream of the Metropolitan Water Reclamation District of Greater Chicago Outfalls

Several statistical analyses were performed to evaluate the effect of flow from each WRP on its receiving stream. The sample values of each parameter at the upstream and downstream locations were first tested to see if they exhibited normal distribution and then tested for equality of variances. If the upstream and downstream sample data came from normally distributed populations and had equal variance, an exact t-test was used for testing the equality of upstream and downstream means. An approximate t-test was used if the data came from two different normally distributed populations.

If the sample size for each of the upstream and downstream data sets was less than 30, and did not come from normally distributed populations, a Wilcoxon rank-sum test was used to test for the equality of two population centers. Wilcoxon test applies to sample mean and median if both upstream and downstream populations come from symmetric populations; otherwise, the test applies to population medians only. Symmetry of a population was determined by a box plot if the sample size was small ($n < 30$).

The mean levels for each parameter measured at the upstream and downstream locations of each WRP and the appropriate significance probability associated with the exact t-test/approximate t-test or Wilcoxon rank-sum test are tabulated in Tables 14 through 18. Tables AIII-1 through AIII-5 in Appendix AIII show in detail the significance probability for testing normality and equality of variances of the upstream and downstream data, and the significance probability for testing the equality of upstream and downstream means employing an appropriate test.

Sixty-seven water quality parameters, including 42 parameters which have either IPCB General Use, Human Health, or Secondary Contact limits, were assayed for all WRPs in 2010. Comparison of the mean concentrations of the common parameters (maximum 67) at upstream and downstream locations showed that the downstream mean concentrations are significantly different from the upstream mean concentrations for some parameters, and about the same for the other parameters. This was indicated by the significance probabilities given in Tables 14 through 18. A value of 0.05 or smaller indicates that the two means are significantly different, and a value greater than 0.05 indicates there is no difference between means.

Steps involved in the evaluation of the results of this type of comparison were:

1. Identify the parameters that exhibit a difference in the mean concentration levels observed at the upstream and downstream locations.
2. Determine if the mean concentration levels at the upstream and downstream locations for a parameter are different, and if the difference in the levels is attributable to wastewater treatment processing.
3. Determine if the fluctuations in the concentration levels of the parameter adversely affect the quality of the receiving stream as assessed by compliance with the water quality standard for that parameter.

TABLE 14: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	8.4		7.1	0.078
Temperature	Temp (°C)	17		16	0.775
pH	pH	7.6		7.3	0.418
Alkalinity (Total)	Alk (mg/L)	118		136	0.082
Chloride	Cl (mg/L)	30		155	0.010
Turbidity	Turb (NTU)	5.5		4.0	0.370
Total Kjeldahl Nitrogen	TKN (mg/L)	<0.43		2.06	0.001
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.13		0.83	0.002
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.001		0.005	0.013
Organic Nitrogen	ORG-N (mg/L)	0.21		1.24	0.005
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.31		6.53	0.000
Total Solids	TS (mg/L)	255		534	0.003
Total Suspended Solids	TSS (mg/L)	7.1		7.0	0.958
Volatile Suspended Solids	VSS (mg/L)	1.1		1.5	0.785
Total Dissolved Solids	TDS (mg/L)	248		527	0.003
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	NPS (µg/L)	<1.3		<1.3	-
Sulfate	SO ₄ (mg/L)	25		42	0.000
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	<0.136		1.15	0.000
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.002		<0.002	-
Fluoride	F (mg/L)	0.13		0.66	0.000
Total Organic Carbon	TOC (mg/L)	3.7		5.0	0.206
Fecal Coliform *	FC (#/100ml)	54		5393	0.000
Escherichia Coli *	EColi (#/100ml)	81		5491	0.291
Total Calcium	Ca (mg/L)	38		52	0.006
Total Magnesium	Mg (mg/L)	13		18	0.007

TABLE 14 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	148		205	0.006
Gross Alpha Radioactivity	G. Alpha (pCi/L)	2.1		2.8	0.146
Gross Beta Radioactivity	G. Beta (pCi/L)	4.9		6.4	0.100
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	18		2	0.330
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.048		<0.048	-
Total Barium	Ba (mg/L)	0.023		0.022	0.625
Total Boron	B (mg/L)	<0.058		0.160	-
Total Cadmium	Cd (mg/L)	<0.007		<0.007	-
Total Copper	Cu (mg/L)	<0.012		<0.012	-
Total Chromium	Cr (mg/L)	<0.005		<0.005	0.816
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.174		<0.136	0.544
Total Lead	Pb (mg/L)	<0.024		<0.024	-
Total Nickel	Ni (mg/L)	<0.009		<0.009	-
Total Manganese	Mn (mg/L)	0.020		0.027	0.542
Total Mercury	Hg (μ g/L)	<0.2		<0.2	-
Low Level Mercury	Hg- (ng/L)	1.838		<0.5	-
Total Zinc	Zn (mg/L)	<0.035		<0.035	0.018
Total Selenium	Se (mg/L)	<0.078		<0.078	-
Soluble Calcium	Sol. Ca (mg/L)	38.1		51.7	0.019
Soluble Magnesium	Sol. Mg (mg/L)	13.1		18.5	0.018
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.034		<0.034	-

TABLE 14 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.022		0.020	0.458
Soluble Boron	Sol. B (mg/L)	<0.038		0.161	0.000
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.008		<0.008	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	<0.083		<0.083	0.541
Soluble Lead	Sol. Pb (mg/L)	<0.023		<0.023	-
Soluble Nickel	Sol. Ni (mg/L)	<0.005		<0.005	-
Soluble Manganese	Sol. Mn (mg/L)	0.012		0.018	0.405
Soluble Zinc	Sol. Zn (mg/L)	<0.015		0.027	-
Soluble Selenium	Sol. Se (mg/L)	<0.076		<0.076	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see Appendix AIII-1 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see Appendix AIII-1 for details).

-=No test was done since standard deviations are below the detection limit or equal to 0.

TABLE 15: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	6.0		7.6	0.005
Temperature	Temp (°C)	19		17	0.544
pH	pH	7.0		7.2	0.053
Alkalinity (Total)	Alk (mg/L)	140		138	0.867
Chloride	Cl (mg/L)	161		188	0.492
Turbidity	Turb (NTU)	8.9		5.0	0.001
Total Kjeldahl Nitrogen	TKN (mg/L)	1.4		1.5	0.688
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.56		0.52	0.770
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.003		0.003	0.618
Organic Nitrogen	ORG-N (mg/L)	0.84		0.99	0.395
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	5.1		8.1	0.021
Total Solids	TS (mg/L)	546		621	0.341
Total Suspended Solids	TSS (mg/L)	13		8	0.002
Volatile Suspended Solids	VSS (mg/L)	1.9		0.9	0.252
Total Dissolved Solids	TDS (mg/L)	533		614	0.308
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	NPS (µg/L)	<1.3		<1.3	-
Sulfate	SO ₄ (mg/L)	43		61	0.000
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	0.68		0.79	0.528
Total Cyanide	CN (mg/L)	<0.005		<0.005	0.381
WAD Cyanide	WAD-CN (mg/L)	<0.002		<0.002	0.726
Fluoride	F (mg/L)	0.51		0.60	0.217
Total Organic Carbon	TOC (mg/L)	3.9		4.6	0.029
Fecal Coliform *	FC (#/100ml)	137		1391	0.000
Escherichia Coli *	EColi (#/100ml)	58		1106	0.037
Total Calcium	Ca (mg/L)	54		59	0.273
Total Magnesium	Mg (mg/L)	19		21	0.426

TABLE 15 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	214		234	0.326
Gross Alpha Radioactivity	G. Alpha (pCi/L)	3.1		3.4	0.548
Gross Beta Radioactivity	G. Beta (pCi/L)	6.0		7.5	0.097
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	4.7		4.0	0.604
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.048		<0.048	-
Total Barium	Ba (mg/L)	0.026		0.023	0.111
Total Boron	B (mg/L)	0.114		0.152	0.006
Total Cadmium	Cd (mg/L)	<0.007		<0.007	-
Total Copper	Cu (mg/L)	<0.012		<0.012	-
Total Chromium	Cr (mg/L)	<0.005		<0.005	0.683
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.389		0.207	0.000
Total Lead	Pb (mg/L)	<0.024		<0.024	-
Total Nickel	Ni (mg/L)	<0.009		<0.009	-
Total Manganese	Mn (mg/L)	0.033		0.039	0.717
Total Mercury	Hg (μ g/L)	<0.2		<0.2	-
Low Level Mercury	Hg- (ng/L)	<0.5		<0.5	-
Total Zinc	Zn (mg/L)	<0.035		<0.035	0.459
Total Selenium	Se (mg/L)	<0.078		<0.078	-
Soluble Calcium	Sol. Ca (mg/L)	52.8		58.1	0.278
Soluble Magnesium	Sol. Mg (mg/L)	19.3		21.0	0.390
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.034		<0.034	-

TABLE 15 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.021		0.020	0.584
Soluble Boron	Sol. B (mg/L)	0.121		0.160	0.008
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.008		<0.008	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	<0.083		<0.083	0.518
Soluble Lead	Sol. Pb (mg/L)	<0.023		<0.023	-
Soluble Nickel	Sol. Ni (mg/L)	<0.005		<0.005	0.224
Soluble Manganese	Sol. Mn (mg/L)	0.023		0.041	0.489
Soluble Zinc	Sol. Zn (mg/L)	<0.015		0.022	0.054
Soluble Selenium	Sol. Se (mg/L)	<0.076		<0.076	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see Appendix AIII-2 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see Appendix AIII-2 for details).

-=No test was done since standard deviations are below the detection limit or equal to 0.

TABLE 16: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	8.7		6.9	0.007
Temperature	Temp (°C)	18		17	0.784
pH	pH	7.6		7.3	0.069
Alkalinity (Total)	Alk (mg/L)	120		147	0.004
Chloride	Cl (mg/L)	104		159	0.171
Turbidity	Turb (NTU)	8.9		4.9	0.018
Total Kjeldahl Nitrogen	TKN (mg/L)	0.64		1.30	0.007
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.20		0.37	0.088
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.002	0.391
Organic Nitrogen	ORG-N (mg/L)	0.45		0.93	0.008
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	1.1		5.4	0.001
Total Solids	TS (mg/L)	420		586	0.056
Total Suspended Solids	TSS (mg/L)	13		8	0.005
Volatile Suspended Solids	VSS (mg/L)	1.1		0.4	0.543
Total Dissolved Solids	TDS (mg/L)	407		579	0.051
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	NPS (µg/L)	<1.3		<1.3	-
Sulfate	SO ₄ (mg/L)	61		75	0.302
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	0.37		2.01	0.003
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.002		<0.002	0.330
Fluoride	F (mg/L)	0.27		0.53	0.001
Total Organic Carbon	TOC (mg/L)	3.6		5.0	0.013
Fecal Coliform *	FC (#/100ml)	74		1926	0.000
Escherichia Coli *	EColi (#/100ml)	126		3724	0.012
Total Calcium	Ca (mg/L)	48		61	0.051
Total Magnesium	Mg (mg/L)	16		21	0.041

TABLE 16 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	185		237	0.047
Gross Alpha Radioactivity	G. Alpha (pCi/L)	2.3		3.1	0.278
Gross Beta Radioactivity	G. Beta (pCi/L)	5.8		6.3	0.591
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	14		4	0.147
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.048		<0.048	-
Total Barium	Ba (mg/L)	0.029		0.021	0.002
Total Boron	B (mg/L)	0.111		0.173	0.059
Total Cadmium	Cd (mg/L)	<0.007		<0.007	-
Total Copper	Cu (mg/L)	<0.012		<0.012	-
Total Chromium	Cr (mg/L)	<0.005		<0.005	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.288		0.222	0.298
Total Lead	Pb (mg/L)	<0.024		<0.024	-
Total Nickel	Ni (mg/L)	<0.009		<0.009	-
Total Manganese	Mn (mg/L)	0.085		0.049	0.421
Total Mercury	Hg (μ g/L)	<0.2		<0.2	-
Low Level Mercury	Hg- (ng/L)	<0.5		<0.5	-
Total Zinc	Zn (mg/L)	<0.035		<0.035	0.321
Total Selenium	Se (mg/L)	<0.078		<0.078	-
Soluble Calcium	Sol. Ca (mg/L)	47.5		61.6	0.042
Soluble Magnesium	Sol. Mg (mg/L)	16.6		21.3	0.043
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.034		<0.034	-

TABLE 16 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.026		0.018	0.003
Soluble Boron	Sol. B (mg/L)	0.115		0.172	0.076
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.008		<0.008	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	<0.083		<0.083	0.094
Soluble Lead	Sol. Pb (mg/L)	<0.023		<0.023	-
Soluble Nickel	Sol. Ni (mg/L)	<0.005		<0.005	-
Soluble Manganese	Sol. Mn (mg/L)	0.029		0.038	0.526
Soluble Zinc	Sol. Zn (mg/L)	<0.015		0.017	0.026
Soluble Selenium	Sol. Se (mg/L)	<0.076		<0.076	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see Appendix AIII-3 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see Appendix AIII-3 for details).

-=No test was done since standard deviations are below the detection limit or equal to 0.

TABLE 17: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	6.9		8.4	0.040
Temperature	Temp (°C)	19		15	0.224
pH	pH	7.5		7.5	0.941
Alkalinity (Total)	Alk (mg/L)	135		148	0.281
Chloride	Cl (mg/L)	266		289	0.712
Turbidity	Turb (NTU)	25		6	0.001
Total Kjeldahl Nitrogen	TKN (mg/L)	1.3		1.3	0.988
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.10		0.20	0.339
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.001	0.587
Organic Nitrogen	ORG-N (mg/L)	1.2		1.1	0.371
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.12		7.81	0.000
Total Solids	TS (mg/L)	757		828	0.593
Total Suspended Solids	TSS (mg/L)	31		9	0.001
Volatile Suspended Solids	VSS (mg/L)	8.3		2.6	0.000
Total Dissolved Solids	TDS (mg/L)	726		820	0.429
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	NPS (µg/L)	<1.3		<1.3	-
Sulfate	SO ₄ (mg/L)	46		68	0.000
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	<0.136		1.53	0.000
Total Cyanide	CN (mg/L)	<0.005		<0.005	0.210
WAD Cyanide	WAD-CN (mg/L)	<0.002		<0.002	0.119
Fluoride	F (mg/L)	0.18		0.53	0.001
Total Organic Carbon	TOC (mg/L)	6.6		5.6	0.014
Fecal Coliform *	FC (#/100ml)	154		273	0.441
Escherichia Coli *	EColi (#/100ml)	209		280	0.812
Total Calcium	Ca (mg/L)	51		66	0.020
Total Magnesium	Mg (mg/L)	21		25	0.152

TABLE 17 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	212		265	0.039
Gross Alpha Radioactivity	G. Alpha (pCi/L)	3.2		3.2	0.915
Gross Beta Radioactivity	G. Beta (pCi/L)	4.8		6.9	0.029
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	26		16	0.123
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.048		<0.048	-
Total Barium	Ba (mg/L)	0.038		0.031	0.152
Total Boron	B (mg/L)	<0.058		0.190	0.000
Total Cadmium	Cd (mg/L)	<0.007		<0.007	-
Total Copper	Cu (mg/L)	<0.012		<0.012	-
Total Chromium	Cr (mg/L)	<0.005		<0.005	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	1.280		0.298	0.002
Total Lead	Pb (mg/L)	<0.024		<0.024	-
Total Nickel	Ni (mg/L)	<0.009		<0.009	-
Total Manganese	Mn (mg/L)	0.112		0.061	0.001
Total Mercury	Hg (μ g/L)	<0.2		<0.2	-
Low Level Mercury	Hg ⁻ (ng/L)	3.338		2.483	0.467
Total Zinc	Zn (mg/L)	<0.035		<0.035	0.337
Total Selenium	Se (mg/L)	<0.078		<0.078	-
Soluble Calcium	Sol. Ca (mg/L)	47.1		63.4	0.007
Soluble Magnesium	Sol. Mg (mg/L)	19.5		24.4	0.031
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.034		<0.034	-

TABLE 17 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.030		0.027	0.387
Soluble Boron	Sol. B (mg/L)	0.075		0.190	0.001
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.008		<0.008	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	<0.083		<0.083	0.456
Soluble Lead	Sol. Pb (mg/L)	<0.023		<0.023	-
Soluble Nickel	Sol. Ni (mg/L)	<0.005		0.005	-
Soluble Manganese	Sol. Mn (mg/L)	0.025		0.032	0.604
Soluble Zinc	Sol. Zn (mg/L)	<0.015		<0.015	-
Soluble Selenium	Sol. Se (mg/L)	<0.076		<0.076	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see Appendix AIII-4 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see Appendix AIII-4 for details).

-=No test was done since standard deviations are below the detection limit or equal to 0.

TABLE 18: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	8.7		9.0	-
Temperature	Temp (°C)	15		18	-
pH	pH	7.7		7.6	-
Alkalinity (Total)	Alk (mg/L)	114		176	-
Chloride	Cl (mg/L)	583		220	-
Turbidity	Turb (NTU)	19		3	-
Total Kjeldahl Nitrogen	TKN (mg/L)	0.72		1.28	-
Ammonium Nitrogen	NH ₄ -N (mg/L)	<0.1		0.221	-
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.000		0.004	-
Organic Nitrogen	ORG-N (mg/L)	0.72		1.06	-
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.35		7.90	-
Total Solids	TS (mg/L)	1183		760	-
Total Suspended Solids	TSS (mg/L)	21		<3.8	-
Volatile Suspended Solids	VSS (mg/L)	6.0		1.3	-
Total Dissolved Solids	TDS (mg/L)	1162		758	-
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	NPS (µg/L)	<1.3		<1.3	-
Sulfate	SO ₄ (mg/L)	39		78	-
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	<0.136		1.018	-
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.002		<0.002	-
Fluoride	F (mg/L)	0.13		0.66	-
Total Organic Carbon	TOC (mg/L)	3.8		5.0	-
Fecal Coliform *	FC (#/100ml)	210		142	-
Escherichia Coli *	EColi (#/100ml)	200		179	-
Total Calcium	Ca (mg/L)	64		75	-
Total Magnesium	Mg (mg/L)	21		27	-

TABLE 18 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	244		300	-
Gross Alpha Radioactivity	G. Alpha (pCi/L)	2.6		2.6	-
Gross Beta Radioactivity	G. Beta (pCi/L)	4.8		6.4	-
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	28		3	-
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.048		<0.048	-
Total Barium	Ba (mg/L)	0.061		0.026	-
Total Boron	B (mg/L)	<0.058		0.202	-
Total Cadmium	Cd (mg/L)	<0.007		<0.007	-
Total Copper	Cu (mg/L)	<0.012		<0.012	-
Total Chromium	Cr (mg/L)	<0.005		<0.005	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.780		<0.136	-
Total Lead	Pb (mg/L)	<0.024		<0.024	-
Total Nickel	Ni (mg/L)	<0.009		<0.009	-
Total Manganese	Mn (mg/L)	0.090		0.070	-
Total Mercury	Hg (μ g/L)	<0.2		<0.2	-
Low Level Mercury	Hg- (ng/L)	5.200		0.778	-
Total Zinc	Zn (mg/L)	<0.035		<0.035	-
Total Selenium	Se (mg/L)	<0.078		<0.078	-
Soluble Calcium	Sol. Ca (mg/L)	46.1		71.9	-
Soluble Magnesium	Sol. Mg (mg/L)	15.7		26.7	-
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.034		<0.034	-

TABLE 18 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2010

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.040		0.022	-
Soluble Boron	Sol. B (mg/L)	0.055		0.202	-
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.008		<0.008	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	<0.083		<0.083	-
Soluble Lead	Sol. Pb (mg/L)	<0.023		<0.023	-
Soluble Nickel	Sol. Ni (mg/L)	<0.005		0.006	-
Soluble Manganese	Sol. Mn (mg/L)	0.027		0.023	-
Soluble Zinc	Sol. Zn (mg/L)	<0.015		0.023	-
Soluble Selenium	Sol. Se (mg/L)	<0.076		<0.076	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see Appendix AIII-5 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see Appendix AIII-5 for details).

-=No test was done since standard deviations are below the detection limit or equal to 0.

A study of the concentrations of the water quality parameters presented in Tables 14 through 18 and the tables in Appendix AII revealed that the quality of effluents from the District's WRPs was high with respect to most parameters. This conclusion was based on the interpretation of the statistical inferences. In general, statistically significant differences existed between upstream and downstream locations for those parameters that were affected by wastewater treatment. Parameters which are significantly different in the downstream location from the upstream location and were subject to water quality limits are identified for each WRP. For some of the parameters, water quality standards exist whereas for others there are no such standards. A discussion of the results from each WRP follows.

North Side Water Reclamation Plant. Locations 35 and 36, upstream and downstream, respectively, of the North Side WRP, are classified as General Use and Secondary Contact waters. Sixty-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 19 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- chloride, total Kjeldahl nitrogen, ammonium nitrogen, un-ionized ammonia, organic nitrogen, nitrite plus nitrate nitrogen, total solids, total dissolved solids, sulfate, total phosphorus, fluoride, fecal coliform, total calcium, total magnesium, hardness, total zinc, soluble calcium, soluble magnesium, and soluble boron.

The downstream average concentrations of all parameters were significantly higher than the upstream average concentration.

Out of the 19 parameters listed above, eight parameters have either IPCB Human Health, General Use, or Secondary Contact Water quality limits. These parameters are:

- chloride, ammonium nitrogen, un-ionized ammonia, total dissolved solids, sulfate, fluoride, fecal coliform, and total zinc.

Of the eight parameters referenced with IPCB Human Health, General Use, or Secondary Contact limits, five parameters were in total compliance at the upstream location. These parameters were:

- chloride, ammonium nitrogen, total dissolved solids, sulfate, and fluoride.

At the upstream location, the percent compliance rate of fecal coliform was 75.0 percent. The remaining two parameters (un-ionized ammonia and total zinc) were not regulated by IPCB Human Health or General Use limits.

Of the eight parameters referenced with IPCB Human Health, General Use, or Secondary Contact water quality limits, four parameters were in total compliance at the downstream location. These parameters were:

- un-ionized ammonia, total dissolved solids, fluoride, and total zinc.

The remaining four parameters (chloride, ammonium nitrogen, sulfate, and fecal coliform) were not regulated by IPCB Secondary Contact limits.

Stickney Water Reclamation Plant. Both the upstream and downstream sampling locations (75 and 41, respectively) of the Stickney WRP are located in the Secondary Contact Waters of the Chicago River System. Sixty-two water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 11 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- DO, turbidity, nitrite plus nitrate nitrogen, total suspended solids, sulfate, total organic carbon, fecal coliform, escherichia coli, total boron, total iron, and soluble boron.

Eight parameters (dissolved oxygen, nitrite plus nitrate nitrogen, sulfate, total organic carbon, fecal coliform, escherichia coli, total boron, and soluble boron) had significantly higher means downstream than upstream. The remaining three parameters (turbidity, total suspended solids, and total iron) had significantly higher means upstream than downstream.

Out of the 11 parameters listed above, two parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- DO and total iron.

All of the parameters listed above were in total compliance at both locations.

Calumet Water Reclamation Plant. Both the upstream and downstream sampling locations (56 and 76, respectively) of the Calumet WRP are located in the Secondary Contact Waters of the Calumet River System. Sixty-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 19 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- DO, alkalinity (total), turbidity, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total suspended solids, total phosphorus, fluoride, total organic carbon, fecal coliform, escherichia coli, total magnesium, hardness, total barium, soluble calcium, soluble magnesium, soluble barium, and soluble zinc.

Five parameters had significantly higher mean concentrations upstream than downstream. These parameters were:

- DO, turbidity, total suspended solids, total barium, and soluble barium.

The remaining 14 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- alkalinity (total), total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total phosphorus, fluoride, total organic carbon, fecal coliform, escherichia coli, total magnesium, hardness, soluble calcium, soluble magnesium, and soluble zinc.

Out of the 19 parameters listed above, three parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- DO, fluoride, and total barium.

All of the parameters listed above were in total compliance at both locations.

John E. Egan Water Reclamation Plant. Both the upstream and downstream sampling locations (79 and 80, respectively) of the John E. Egan WRP are located in the General Use Waters of the Des Plaines River System. Sixty-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations.

The following 18 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- DO, turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, sulfate, total phosphorus, fluoride, total organic carbon, total calcium, hardness, gross beta radioactivity, total boron, total iron, total manganese, soluble calcium, soluble magnesium, and soluble boron.

Six parameters had significantly higher mean concentrations upstream than downstream. These parameters were:

- turbidity, total suspended solids, volatile suspended solids, total organic carbon, total iron, and total manganese.

The remaining 12 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- DO, nitrite plus nitrate nitrogen, sulfate, total phosphorus, fluoride, total calcium, hardness, gross beta radioactivity, total boron, soluble calcium, soluble magnesium, and soluble boron.

Out of the 18 parameters listed above, six parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- DO, sulfate, fluoride, gross beta radioactivity, total boron, and total manganese.

All of the parameters listed above were in total compliance at both locations.

James C. Kirie Water Reclamation Plant. Both the upstream and downstream sampling locations (77 and 78, respectively) of the James C. Kirie WRP are located in the General Use Waters of the Des Plaines River System. Sixty-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations.

Upstream location 77 was sampled only once in April. Therefore, comparisons of means between upstream and downstream locations were not done since variances of the parameters in the Upstream location did not exist.

At both locations 77 and 78, 30 water quality parameters have general use limits. They were DO, temperature, pH, chloride, ammonium nitrogen, total dissolved solids, phenols, sulfate, total hexavalent chromium, total boron, total selenium, total barium, total silver, fecal coliform, total

manganese, fluoride, gross beta radioactivity, weak acid dissociable cyanide, benzene, ethylbenzene, toluene, xylene, soluble zinc, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble nickel, soluble lead, and soluble arsenic.

At location 77, 28 parameters were in complete compliance with applicable water quality standards. They were DO, temperature, pH, ammonium nitrogen, phenols, sulfate, total hexavalent chromium, total boron, total selenium, total barium, total silver, fecal coliform, total manganese, fluoride, gross beta radioactivity, weak acid dissociable cyanide, benzene, ethylbenzene, toluene, xylene, soluble zinc, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble nickel, soluble lead, and soluble arsenic. The remaining two parameters, chloride and total dissolved solids, were not in complete compliance with applicable water quality standards.

At location 78, 27 parameters had complete compliance. They were DO, temperature, pH, chloride, ammonium nitrogen, phenols, sulfate, total hexavalent chromium, total boron, total selenium, total barium, total silver, total manganese, fluoride, gross beta radioactivity, weak acid dissociable cyanide, benzene, ethylbenzene, toluene, xylene, soluble zinc, soluble cadmium, soluble chromium, soluble iron, soluble nickel, soluble lead, and soluble arsenic. The remaining three parameters, total dissolved solids, fecal coliform, and soluble copper, had 88.9, 44.4, and 88.9 percent compliance rates, respectively.

Hanover Park Water Reclamation Plant. Both the upstream and downstream sampling locations (63 and 89, respectively) of the Hanover Park WRP are located in the General Use Waters of the Des Plaines River System. No sample at the upstream location of the Hanover Park WRP (Location 63) was taken in 2010, because the water level was too low to obtain a representative sample without being contaminated by sediments. Therefore, no comparison of mean concentrations between upstream and downstream locations was made.

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APPENDIX AI

WATERWAYS DATA MANAGEMENT SYSTEM DESCRIPTION

TABLE AI-1: DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2010

Symbol	Parameter	Unit	MDL ²	Water Quality Standard ¹	
				General Use	Secondary Contact
DO	Dissolved Oxygen	mg/L	1	(3.5, 5.0) ³	(3.0, 4.0) ⁴
Temp	Temperature	°C	-	16 (32 Apr - Nov)	37.8
pH	pH		-	6.5 - 9.0	6.0 - 9.0
Alk	Alkalinity (Total)	mg/L	19	None	None
Cl	Chloride	mg/L	12	500	None
Turb	Turbidity	NTU	1	None	None
TKN	Total Kjeldahl Nitrogen	mg/L	0.43	None	None
NH ₄ -N	Ammonium Nitrogen	mg/L	0.1	15 ⁵	None
NH ₃ -N	Un-ionized Ammonia	mg/L	-	None	0.1
ORG-N	Organic Nitrogen	mg/L	-	None	None
NO ₂ + NO ₃	Nitrite Plus Nitrate Nitrogen	mg/L	0.05	None	None
TS	Total Solids	mg/L	-	None	None
TSS	Total Suspended Solids	mg/L	3.8	None	None
VSS	Volatile Suspended Solids	mg/L	-	None	None
TDS	Total Dissolved Solids	mg/L	54	1,000	1,500
Phenol	Phenols	µg/L	5	100	300
NPS	Total Nonylphenols	µg/L	-	None	None
SO ₄	Sulfate	mg/L	2	500	None
FOG	Fats, Oils, and Greases	mg/L	5	None	15
TP	Total Phosphorus	mg/L	0.136	None	None
CN	Total Cyanide	mg/L	0.005	None	0.1
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.002	0.022	None
F	Fluoride	mg/L	0.124	1.4	15
TOC	Total Organic Carbon	mg/L	1	None	None
FC	Fecal Coliform	cfu/100mL	-	400	None
EColi	Escherichia Coli	cfu/100mL	-	None	None
Ca	Total Calcium	mg/L	0.3	None	None
Mg	Total Magnesium	mg/L	0.3	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2010

Symbol	Parameter	Unit	MDL ²	Water Quality Standard ¹	
				General Use	Secondary Contact
Hard	Hardness	mg/L	-	None	None
Alpha	Gross Alpha Radioactivity	pCi/L	-	None	None
Beta	Gross Beta Radioactivity	pCi/L	-	100	None
Chlrphl	Chlorophyll <i>a</i>	µg/L	-	None	None
Bznz	Benzene*	µg/L	2	310	None
Bznz	Benzene	µg/L	2	4,200	None
Ebnzn	Ethylbenzene	µg/L	2	150	None
Toln	Toluene	µg/L	2	2,000	None
Xyln	Xylene	µg/L	3	920	None
Ag	Total Silver	mg/L	0.003	0.005	1.1
As	Total Arsenic	mg/L	0.048	None	1
Ba	Total Barium	mg/L	0.003	5	5
B	Total Boron	mg/L	0.058	1	None
Cd	Total Cadmium	mg/L	0.007	None	0.15
Cu	Total Copper	mg/L	0.012	None	1
Cr	Total Chromium	mg/L	0.005	None	None
Cr ⁺⁶	Total Hexavalent Chromium	µg/L	10	16	300
Fe	Total Iron	mg/L	0.136	None	2
Pb	Total Lead	mg/L	0.024	None	0.1
Ni	Total Nickel	mg/L	0.009	None	1
Mn	Total Manganese	mg/L	0.003	1	1
Hg	Total Mercury*	µg/L	0.2	0.012	None
Hg	Total Mercury	µg/L	0.2	None	0.5
Hg-	Low Level Mercury	ng/L	0.5	None	None
Zn	Total Zinc	mg/L	0.035	None	1
Se	Total Selenium	mg/L	0.078	1	1
Sol. Ca	Soluble Calcium	mg/L	0.2	None	None
Sol. Mg	Soluble Magnesium	mg/L	0.1	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2010

Symbol	Parameter	Unit	MDL ²	Water Quality Standard ¹	
				General Use	Secondary Contact
Sol. Ag	Soluble Silver	mg/L	0.003	None	None
Sol. As	Soluble Arsenic	mg/L	0.034	0.36	None
Sol. Ba	Soluble Barium	mg/L	0.002	None	None
Sol. B	Soluble Boron	mg/L	0.038	None	None
Sol. Cd	Soluble Cadmium	mg/L	0.002	0.044 ⁶	None
Sol. Cu	Soluble Copper	mg/L	0.008	0.066 ⁷	None
Sol. Cr	Soluble Chromium	mg/L	0.003	1.783 ⁸	None
Sol. Fe	Soluble Iron	mg/L	0.083	1	0.5
Sol. Pb	Soluble Lead	mg/L	0.023	0.347 ⁹	None
Sol. Ni	Soluble Nickel	mg/L	0.005	0.278 ¹⁰	None
Sol. Mn	Soluble Manganese	mg/L	0.002	None	None
Sol. Zn	Soluble Zinc	mg/L	0.015	0.404 ¹¹	None
Sol. Se	Soluble Selenium	mg/L	0.076	None	None

¹ As per Illinois Pollution Control Board, except as modified (see text).

² MDL=Minimum detection limit. Average MDL value is used where referenced in this report.

³ Standard is 5.0 mg/L in March through July and 3.5 mg/L in other months.

⁴ Standard is 3.0 mg/L for locations 43, 58, and 59 and 4.0 mg/L for other Secondary Contact locations.

⁵ Based on $\text{Min} \left(\frac{0.411}{1+10^{7.204-\text{pH}}} + \frac{58.4}{1+10^{\text{pH}-7.204}}, 15 \right)$.

⁶ Based on $\text{Min} (e^{-2.98+1.128 \times (\text{Hard})} * (1.138672 - 0.041838 \times \ln(\text{Hard}))/1000, 0.005)$.

⁷ Based on $0.00090 e^{-1.464+0.9422 \times \ln(\text{Hard})}$.

⁸ Based on $0.000316 e^{3.688+0.819 \times \ln(\text{Hard})}$.

⁹ Based on $e^{-1.301+1.1273 \times \ln(\text{Hard})} * (1.46203 - 0.145712 \times \ln(\text{Hard}))/1000$.

¹⁰ Based on $0.000998 e^{0.5173+0.846 \times \ln(\text{Hard})}$.

¹¹ Based on $0.000978 e^{0.9035+0.8473 \times \ln(\text{Hard})}$.

- No minimum detection limit reported.

*As Human Health Standard.

TABLE AI-2: DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

Sampling Station (No. Name)	Sample Type	Water Use ¹	River System
1 Wilmette Harbor*	Auto	GEN	Chicago
2 Outer Drive Bridge*	Auto	GEN	Chicago
3 South District Water Filtration Plant*	Auto	GEN	Chicago
4 O'Brien Locks*	Auto	SEC	Chicago
5 Ohio Street*	Auto	SEC	Chicago
6 Willow Springs Road*	Auto	SEC	Chicago
7 Highway 83 and Archer*	Auto	SEC	Chicago
9 North Side WRP, Outfall*	Auto	EFF	Chicago
10 Southwest WRP, Outfall*	Auto	EFF	Chicago
11 Calumet WRP, Outfall*	Auto	EFF	Calumet
12 Lake-Cook Road, Buffalo Creek	Grab	GEN	Des Plaines
13 Lake-Cook Road, Des Plaines River	Grab	GEN	Des Plaines
14 Hintz Road, Wheeling Drain Ditch*	Grab	GEN	Des Plaines
15 Palatine Road, Des Plaines River*	Grab	GEN	Des Plaines
16 Central Road, Des Plaines River*	Grab	GEN	Des Plaines
17 Oakton Street, Des Plaines River	Grab	GEN	Des Plaines
18 Devon Avenue, Salt Creek	Grab	GEN	Des Plaines
19 Belmont Avenue, Des Plaines River	Grab	GEN	Des Plaines
20 Roosevelt Road, Des Plaines River	Grab	GEN	Des Plaines
21 First Avenue, Salt Creek*	Grab	GEN	Des Plaines
22 Ogden Avenue, Des Plaines River	Grab	GEN	Des Plaines
23 Willow Springs Road, Des Plaines River	Grab	GEN	Des Plaines
24 Wolf Road, Salt Creek	Grab	GEN	Des Plaines
25 Grand Avenue, Des Plaines River*	Grab	GEN	Des Plaines
26 Lawrence Avenue, Des Plaines River*	Grab	GEN	Des Plaines
27 York Road, Salt Creek*	Grab	GEN	Des Plaines
28 Highway 83 and Des Plaines River*	Grab	GEN	Des Plaines
29 Stephen Street, Des Plaines River	Grab	GEN	Des Plaines

TABLE AI-2 (Continued): DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

Sampling Station (No. Name)	Sample Type	Water Use ¹	River System
30 Lake-Cook Road, West Fork North Branch*	Grab	GEN	Chicago
31 Lake-Cook Road, Middle Fork North Branch	Grab	GEN	Chicago
32 Lake-Cook Road, Skokie River	Grab	GEN	Chicago
33 East Lake Avenue, Middle Fork North Branch Chicago River*	Grab	GEN	Chicago
34 Dempster Street, North Branch Chicago River	Grab	GEN	Chicago
35 Central Street, North Shore Channel	Grab	GEN	Chicago
36 Touhy Avenue, North Shore Channel	Grab	SEC	Chicago
37 Wilson Avenue, North Branch Chicago River	Grab	SEC	Chicago
38 Ohio Street, North Branch Chicago River*	Grab	SEC	Chicago
39 Madison Street, South Branch Chicago River	Grab	SEC	Chicago
40 Damen Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
41 Harlem Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
42 Route 83, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
43 Route 83, Calumet-Sag Channel	Grab	SEC	Calumet
44 Howard Street, North Shore Channel*	Grab	SEC	Chicago
45 Lawrence Avenue, North Branch Chicago River*	Grab	SEC	Chicago
46 Grand Avenue, North Branch Chicago River	Grab	SEC	Chicago
47 Randolph Street, South Branch Chicago River*	Grab	SEC	Chicago
48 Stephen Street, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
49 Ewing Avenue, Calumet River	Grab	GEN	Calumet
50 Burnham Avenue, Wolf Lake	Grab	GEN	Calumet
51 IHB Railroad Bridge, Grand Calumet River*	Grab	SEC	Calumet
52 Wentworth Avenue, Little Calumet River	Grab	GEN	Calumet
53 Wentworth Avenue, North Creek*	Grab	GEN	Calumet
54 Joe Orr Road, Thorn Creek	Grab	GEN	Calumet
55 130th Street, Calumet River	Grab	GEN	Calumet
56 Indiana Avenue, Little Calumet River	Grab	SEC	Calumet
57 Ashland Avenue, Little Calumet River	Grab	GEN	Calumet

TABLE AI-2 (Continued): DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

Sampling Station (No. Name)	Sample Type	Water Use ¹	River System
58 Ashland Avenue, Calumet-Sag Channel	Grab	SEC	Calumet
59 Cicero Avenue, Calumet-Sag Channel	Grab	SEC	Calumet
60 Crawford Avenue, Calumet-Sag Channel*	Grab	SEC	Calumet
61 Ashland Avenue, South Branch Chicago River*	Grab	SEC	Chicago
62 Stephen Street, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
63 Longmeadow Lane, West Branch DuPage River*	Grab	GEN	Des Plaines
64 Lake Street, West Branch DuPage River	Grab	GEN	Des Plaines
65 Oltendorf Road, Poplar Creek*	Grab	GEN	Des Plaines
66 Bartlett Road, Poplar Creek*	Grab	GEN	Des Plaines
67 171st Street, Union Drainage Ditch*	Grab	GEN	Calumet
68 Park Street, Union Drainage Ditch*	Grab	GEN	Calumet
69 Lincoln Highway, Deer Creek*	Grab	GEN	Calumet
70 Joe Orr Road, Deer Creek*	Grab	GEN	Calumet
71 Route 83, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
72 Stephen Street, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
73 Diversey Parkway, North Branch Chicago River	Grab	SEC	Chicago
74 Lake Shore Drive, Chicago River	Grab	GEN	Chicago
75 Cicero Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
76 Halsted Street, Little Calumet River	Grab	SEC	Calumet
77 Elmhurst Road, Higgins Creek	Grab	GEN	Des Plaines
78 Wille Road, Higgins Creek	Grab	GEN	Des Plaines
79 Higgins Road, Salt Creek	Grab	GEN	Des Plaines
80 Arlington Heights Road, Salt Creek	Grab	GEN	Des Plaines
81 Lockport Forebay*	Auto	SEC	Chicago
82 Lockport Trebler, Chicago Sanitary & Ship Canal*	Auto	SEC	Chicago
83 Lockport Solenoid*	Auto	SEC	Chicago
84 Lockport 16th Street Bridge*	Grab	SEC	Chicago
85 Dempster Street, North Shore Channel*	Grab	SEC	Chicago

TABLE AI-2 (Continued): DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

Sampling Station (No. Name)	Sample Type	Water Use ¹	River System
86 Burnham Avenue, Grand Calumet River	Grab	SEC	Calumet
89 Walnut Lane, West Branch DuPage River	Grab	GEN	Des Plaines
90 Route 19, Poplar Creek	Grab	GEN	Des Plaines
91 Material Service Road, Des Plaines River	Grab	GEN	Des Plaines
92 Lockport Forebay, Chicago Sanitary & Ship Canal	Auto	SEC	Chicago
93 Jefferson Street, Joliet, Des Plaines River ²	Grab	SEC	Des Plaines
94 Empress Casino, Des Plaines River ²	Grab	SEC	Des Plaines
95 I-55, Des Plaines River ²	Grab	SEC	Des Plaines
96 Albany Avenue, North Branch Chicago River	Grab	GEN	Chicago
97 170th Street, Thorn Creek	Grab	GEN	Calumet
98 Halsted Street, South Branch Chicago River*	Grab	SEC	Chicago
99 Archer Avenue, South Fork South Branch Chicago River	Grab	SEC	Chicago
100 Wells Street, Chicago River	Grab	GEN	Chicago
101 Foster Avenue, North Shore Channel	Grab	SEC	Chicago
102 Oakton Street, North Shore Channel	Grab	GEN	Chicago
103 Golf Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
104 Glenview Road, North Branch Chicago River	Grab	GEN	Chicago
105 Frontage Road, Skokie River	Grab	GEN	Chicago
106 Dundee Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
107 Western Avenue, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
108 Loomis Street, South Branch Chicago River	Grab	SEC	Chicago
109 Brookfield Avenue, Salt Creek	Grab	GEN	Des Plaines
110 Springinsguth Road, West Branch DuPage River	Grab	GEN	Des Plaines

¹GEN = General Use, SEC = Secondary Contact, EFF = Effluent.

²Kept for Special Studies Separately.

*Excluded in 2010 Sampling.

APPENDIX AII

**WATER QUALITY RESULTS: ANNUAL MEAN,
STANDARD COMPLIANCE VIOLATION HISTORY, AND MEAN HISTORY**

TABLE AII-1: WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	DO mg/L	Temp °C	pH	Alk mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	8.03	13.1	7.25	158
103 Golf Road, West Fork North Branch Chicago River	7.70	15.7	7.63	181
31 Lake-Cook Road, Middle Fork North Branch	6.18	14.8	7.61	192
104 Glenview Road, North Branch Chicago River	8.20	12.7	7.71	171
32 Lake-Cook Road, Skokie River	7.23	15.2	7.70	196
105 Frontage Road, Skokie River	7.63	13.5	7.56	170
34 Dempster Street, North Branch Chicago River	8.25	12.7	7.70	183
96 Albany Avenue, North Branch Chicago River	8.47	14.5	7.94	172
35 Central Street, North Shore Channel	8.39	16.9	7.62	118
102 Oakton Street, North Shore Channel	7.02	15.4	7.57	131
36 Touhy Avenue, North Shore Channel	7.15	16.2	7.30	136
101 Foster Avenue, North Shore Channel	7.18	15.3	7.11	139
37 Wilson Avenue, North Branch Chicago River	7.51	15.7	7.35	139
73 Diversey Parkway, North Branch Chicago River	6.91	15.0	7.31	149
46 Grand Avenue, North Branch Chicago River	6.57	14.6	7.39	145
74 Lake Shore Drive, Chicago River	9.05	13.5	7.39	110
100 Wells Street, Chicago River	8.11	13.9	7.38	119
39 Madison Street, South Branch Chicago River	7.36	13.9	7.23	134
108 Loomis Street, South Branch Chicago River	7.51	15.7	7.33	135
99 Archer Avenue, South Fork South Branch Chicago River	5.60	12.8	7.34	146
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.02	16.1	7.40	136
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.02	19.3	7.04	140
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.56	17.2	7.23	138
42 Route 83, Chicago Sanitary & Ship Canal	5.93	16.1	7.02	143
48 Stephen Street, Chicago Sanitary & Ship Canal	6.48	16.5	7.24	145
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.69	18.0	7.33	146
Calumet River System				
49 Ewing Avenue, Calumet River	8.90	17.3	7.57	107
50 Burnham Avenue, Wolf Lake	8.12	15.6	7.74	103
55 130th Street, Calumet River	9.16	16.0	7.86	108
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4.89	18.0	7.27	250
56 Indiana Avenue, Little Calumet River	8.71	17.6	7.57	120
76 Halsted Street, Little Calumet River	6.89	16.6	7.30	147
52 Wentworth Avenue, Little Calumet River	7.08	15.2	7.63	184
54 Joe Orr Road, Thorn Creek	7.72	15.0	7.27	178
97 170th Street, Thorn Creek	7.87	15.0	7.66	163
57 Ashland Avenue, Little Calumet River	7.46	14.4	7.60	166
58 Ashland Avenue, Calumet-Sag Channel	7.44	15.5	7.38	159
59 Cicero Avenue, Calumet-Sag Channel	6.20	16.0	7.48	153
43 Route 83, Calumet-Sag Channel	6.49	15.8	7.47	158
Des Plaines River System				
90 Route 19, Poplar Creek	8.80	15.4	7.83	222
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	8.53	16.3	7.51	154
64 Lake Street, West Branch DuPage River	8.42	12.1	7.71	180
79 Higgins Road, Salt Creek	6.88	18.9	7.51	135
80 Arlington Heights Road, Salt Creek	8.43	15.0	7.52	148
18 Devon Avenue, Salt Creek	8.25	13.4	7.60	154
24 Wolf Road, Salt Creek	7.41	11.3	7.48	154
109 Brookfield Avenue, Salt Creek	7.37	13.8	7.58	150
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	8.70	14.8	7.68	114
78 Wille Road, Higgins Creek	8.98	17.7	7.61	176
12 Lake-Cook Road, Buffalo Creek	7.31	14.9	7.47	204
13 Lake-Cook Road, Des Plaines River	8.11	14.1	7.58	192
17 Oakton Street, Des Plaines River	8.58	15.1	7.74	180
19 Belmont Avenue, Des Plaines River	8.41	15.0	7.82	171
20 Roosevelt Road, Des Plaines River	7.91	15.3	7.85	170
22 Ogden Avenue, Des Plaines River	7.89	13.0	7.81	169
23 Willow Springs Road, Des Plaines River	8.07	14.1	7.86	165
29 Stephen Street, Des Plaines River	8.37	13.5	7.86	170
91 Material Service Road, Des Plaines River	9.04	14.0	7.97	175
110 Springinsguth Road, West Branch DuPage River	5.34	17.9	7.41	209

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Cl mg/L	Turb NTU	TKN mg/L	NH ₄ -N mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	470	18.0	1.24	0.346
103 Golf Road, West Fork North Branch Chicago River	400	12.4	1.15	0.181
31 Lake-Cook Road, Middle Fork North Branch	304	10.6	0.95	0.064
104 Glenview Road, North Branch Chicago River	257	7.6	0.88	0.048
32 Lake-Cook Road, Skokie River	251	9.2	0.81	0.080
105 Frontage Road, Skokie River	217	9.5	1.01	0.068
34 Dempster Street, North Branch Chicago River	316	9.4	1.53	0.190
96 Albany Avenue, North Branch Chicago River	319	13.1	0.94	0.082
35 Central Street, North Shore Channel	30	5.5	0.32	0.125
102 Oakton Street, North Shore Channel	106	14.3	1.46	0.589
36 Touhy Avenue, North Shore Channel	155	4.0	2.06	0.826
101 Foster Avenue, North Shore Channel	170	4.6	2.10	1.061
37 Wilson Avenue, North Branch Chicago River	222	6.6	1.84	0.807
73 Diversey Parkway, North Branch Chicago River	199	6.5	1.77	0.900
46 Grand Avenue, North Branch Chicago River	175	8.0	1.96	1.021
74 Lake Shore Drive, Chicago River	78	2.2	0.29	0.145
100 Wells Street, Chicago River	122	3.8	0.65	0.338
39 Madison Street, South Branch Chicago River	168	8.4	1.29	0.532
108 Loomis Street, South Branch Chicago River	188	8.5	1.29	0.579
99 Archer Avenue, South Fork South Branch Chicago River	171	7.6	1.98	0.937
40 Damen Avenue, Chicago Sanitary & Ship Canal	185	8.9	1.57	0.613
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	161	8.9	1.40	0.562
41 Harlem Avenue, Chicago Sanitary & Ship Canal	188	5.0	1.51	0.521
42 Route 83, Chicago Sanitary & Ship Canal	196	4.2	1.83	0.799
48 Stephen Street, Chicago Sanitary & Ship Canal	202	6.9	1.54	0.536
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	181	6.0	1.49	0.573
Calumet River System				
49 Ewing Avenue, Calumet River	35	2.9	0.07	0.038
50 Burnham Avenue, Wolf Lake	86	3.5	0.52	0.080
55 130th Street, Calumet River	83	2.7	0.25	0.071
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	80	13.0	4.57	3.121
56 Indiana Avenue, Little Calumet River	104	8.9	0.64	0.202
76 Halsted Street, Little Calumet River	159	4.9	1.30	0.368
52 Wentworth Avenue, Little Calumet River	122	61.2	1.39	0.264
54 Joe Orr Road, Thorn Creek	210	24.1	1.24	0.166
97 170th Street, Thorn Creek	192	51.5	1.21	0.134
57 Ashland Avenue, Little Calumet River	182	42.1	1.11	0.196
58 Ashland Avenue, Calumet-Sag Channel	159	19.7	1.28	0.334
59 Cicero Avenue, Calumet-Sag Channel	160	14.1	1.33	0.428
43 Route 83, Calumet-Sag Channel	178	9.2	1.29	0.407
Des Plaines River System				
90 Route 19, Poplar Creek	273	12.0	0.86	0.094
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	171	7.0	1.68	0.118
64 Lake Street, West Branch DuPage River	340	18.5	1.97	0.755
79 Higgins Road, Salt Creek	266	25.4	1.30	0.098
80 Arlington Heights Road, Salt Creek	289	6.0	1.30	0.202
18 Devon Avenue, Salt Creek	327	6.9	1.46	0.221
24 Wolf Road, Salt Creek	313	14.2	2.00	0.180
109 Brookfield Avenue, Salt Creek	293	19.4	1.02	0.224
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	583	19.3	0.72	0.000
78 Wille Road, Higgins Creek	220	3.1	1.28	0.221
12 Lake-Cook Road, Buffalo Creek	310	23.9	1.11	0.084
13 Lake-Cook Road, Des Plaines River	185	12.9	1.07	0.040
17 Oakton Street, Des Plaines River	221	13.5	1.04	0.065
19 Belmont Avenue, Des Plaines River	231	12.7	1.09	0.086
20 Roosevelt Road, Des Plaines River	232	16.6	1.05	0.065
22 Ogden Avenue, Des Plaines River	250	15.3	1.04	0.107
23 Willow Springs Road, Des Plaines River	239	13.1	0.92	0.088
29 Stephen Street, Des Plaines River	235	16.6	1.15	0.069
91 Material Service Road, Des Plaines River	242	15.0	0.99	0.028
110 Springinsguth Road, West Branch DuPage River	239	10.1	1.64	0.313

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	NH ₃ -N ¹ mg/L	ORG-N mg/L	NO ₂ + NO ₃ mg/L	TS mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.89	8.56	1160
103 Golf Road, West Fork North Branch Chicago River	0.002	0.97	3.72	1052
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.88	0.17	845
104 Glenview Road, North Branch Chicago River	0.001	0.83	5.88	781
32 Lake-Cook Road, Skokie River	0.001	0.73	0.35	780
105 Frontage Road, Skokie River	0.001	0.95	7.07	713
34 Dempster Street, North Branch Chicago River	0.002	1.34	4.02	897
96 Albany Avenue, North Branch Chicago River	0.002	0.86	4.50	883
35 Central Street, North Shore Channel	0.001	0.21	0.31	255
102 Oakton Street, North Shore Channel	0.005	0.88	3.29	423
36 Touhy Avenue, North Shore Channel	0.005	1.24	6.53	534
101 Foster Avenue, North Shore Channel	0.005	1.04	7.75	567
37 Wilson Avenue, North Branch Chicago River	0.007	1.04	7.12	686
73 Diversey Parkway, North Branch Chicago River	0.006	0.87	7.18	638
46 Grand Avenue, North Branch Chicago River	0.006	0.94	6.66	595
74 Lake Shore Drive, Chicago River	0.000	0.15	1.28	310
100 Wells Street, Chicago River	0.003	0.41	2.83	411
39 Madison Street, South Branch Chicago River	0.004	0.76	5.05	532
108 Loomis Street, South Branch Chicago River	0.005	0.71	5.12	591
99 Archer Avenue, South Fork South Branch Chicago River	0.006	1.05	4.80	565
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.006	0.96	5.11	572
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.84	5.15	546
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.99	8.12	621
42 Route 83, Chicago Sanitary & Ship Canal	0.003	1.03	6.10	635
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	1.01	5.83	665
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.91	5.91	669
Calumet River System				
49 Ewing Avenue, Calumet River	0.001	0.07	0.30	229
50 Burnham Avenue, Wolf Lake	0.004	0.46	0.07	327
55 130th Street, Calumet River	0.001	0.18	0.42	363
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.034	1.45	0.29	570
56 Indiana Avenue, Little Calumet River	0.002	0.45	1.12	420
76 Halsted Street, Little Calumet River	0.002	0.93	5.38	586
52 Wentworth Avenue, Little Calumet River	0.004	1.13	4.34	646
54 Joe Orr Road, Thorn Creek	0.001	1.07	7.39	1383
97 170th Street, Thorn Creek	0.003	1.08	4.53	1073
57 Ashland Avenue, Little Calumet River	0.003	0.92	3.41	829
58 Ashland Avenue, Calumet-Sag Channel	0.002	0.97	4.38	682
59 Cicero Avenue, Calumet-Sag Channel	0.004	0.90	4.55	617
43 Route 83, Calumet-Sag Channel	0.004	0.88	4.90	679
Des Plaines River System				
90 Route 19, Poplar Creek	0.002	0.76	0.28	817
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.001	1.56	11.83	653
64 Lake Street, West Branch DuPage River	0.007	1.22	6.82	939
79 Higgins Road, Salt Creek	0.002	1.20	0.12	757
80 Arlington Heights Road, Salt Creek	0.001	1.10	7.81	828
18 Devon Avenue, Salt Creek	0.002	1.24	8.31	891
24 Wolf Road, Salt Creek	0.001	1.82	6.98	877
109 Brookfield Avenue, Salt Creek	0.002	0.81	6.17	845
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.72	0.35	1183
78 Wille Road, Higgins Creek	0.004	1.06	7.90	760
12 Lake-Cook Road, Buffalo Creek	0.001	1.03	0.36	919
13 Lake-Cook Road, Des Plaines River	0.001	1.03	6.45	687
17 Oakton Street, Des Plaines River	0.001	0.98	6.08	738
19 Belmont Avenue, Des Plaines River	0.001	1.00	5.71	744
20 Roosevelt Road, Des Plaines River	0.001	0.99	5.65	747
22 Ogden Avenue, Des Plaines River	0.001	0.93	5.52	771
23 Willow Springs Road, Des Plaines River	0.001	0.84	5.25	757
29 Stephen Street, Des Plaines River	0.001	1.08	5.01	750
91 Material Service Road, Des Plaines River	0.000	0.97	4.78	762
110 Springinsguth Road, West Branch DuPage River	0.006	1.33	0.36	763

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	TSS mg/L	VSS mg/L	TDS mg/L	Phenol μg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	25.1	3.60	1135	0.5
103 Golf Road, West Fork North Branch Chicago River	16.6	2.40	1036	0.6
31 Lake-Cook Road, Middle Fork North Branch	11.4	1.56	834	0.0
104 Glenview Road, North Branch Chicago River	11.3	1.22	770	0.0
32 Lake-Cook Road, Skokie River	12.7	1.33	767	0.6
105 Frontage Road, Skokie River	13.8	1.33	699	0.6
34 Dempster Street, North Branch Chicago River	13.4	1.88	883	0.0
96 Albany Avenue, North Branch Chicago River	14.3	1.82	868	0.0
35 Central Street, North Shore Channel	7.1	1.13	248	0.0
102 Oakton Street, North Shore Channel	20.8	3.18	403	0.0
36 Touhy Avenue, North Shore Channel	7.0	1.45	527	0.0
101 Foster Avenue, North Shore Channel	7.7	0.83	559	0.0
37 Wilson Avenue, North Branch Chicago River	9.9	0.67	676	0.0
73 Diversey Parkway, North Branch Chicago River	9.5	0.00	628	0.0
46 Grand Avenue, North Branch Chicago River	10.8	0.92	584	0.0
74 Lake Shore Drive, Chicago River	1.2	0.00	309	0.0
100 Wells Street, Chicago River	4.1	0.00	407	0.0
39 Madison Street, South Branch Chicago River	9.5	0.92	522	0.0
108 Loomis Street, South Branch Chicago River	11.4	2.00	580	0.0
99 Archer Avenue, South Fork South Branch Chicago River	11.7	3.40	553	0.7
40 Damen Avenue, Chicago Sanitary & Ship Canal	12.0	2.25	560	0.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	12.8	1.92	533	0.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.7	0.89	614	0.7
42 Route 83, Chicago Sanitary & Ship Canal	6.8	0.67	629	0.5
48 Stephen Street, Chicago Sanitary & Ship Canal	9.3	0.58	656	0.5
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	10.4	1.08	658	0.2
Calumet River System				
49 Ewing Avenue, Calumet River	4.8	0.00	224	0.0
50 Burnham Avenue, Wolf Lake	4.3	1.27	323	0.0
55 130th Street, Calumet River	5.1	0.00	357	0.0
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	14.4	8.00	556	0.7
56 Indiana Avenue, Little Calumet River	12.9	1.10	407	0.0
76 Halsted Street, Little Calumet River	7.6	0.40	579	0.0
52 Wentworth Avenue, Little Calumet River	74.3	8.82	572	0.0
54 Joe Orr Road, Thorn Creek	27.4	2.44	1356	0.0
97 170th Street, Thorn Creek	53.4	7.55	1020	0.0
57 Ashland Avenue, Little Calumet River	55.1	6.70	774	0.6
58 Ashland Avenue, Calumet-Sag Channel	25.3	3.00	657	0.5
59 Cicero Avenue, Calumet-Sag Channel	18.5	2.30	598	5.9
43 Route 83, Calumet-Sag Channel	14.0	1.55	665	0.0
Des Plaines River System				
90 Route 19, Poplar Creek	17.6	3.50	799	0.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	20.1	5.42	633	0.0
64 Lake Street, West Branch DuPage River	26.7	6.67	912	0.0
79 Higgins Road, Salt Creek	31.4	8.25	726	0.0
80 Arlington Heights Road, Salt Creek	8.5	2.58	820	0.0
18 Devon Avenue, Salt Creek	11.1	2.20	880	0.0
24 Wolf Road, Salt Creek	23.5	3.90	853	0.6
109 Brookfield Avenue, Salt Creek	18.3	2.55	827	0.0
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	21.0	6.00	1162	0.0
78 Wille Road, Higgins Creek	2.4	1.33	758	0.6
12 Lake-Cook Road, Buffalo Creek	27.7	5.14	891	0.0
13 Lake-Cook Road, Des Plaines River	17.4	3.27	670	0.5
17 Oakton Street, Des Plaines River	16.8	3.45	721	0.0
19 Belmont Avenue, Des Plaines River	18.5	3.36	726	0.0
20 Roosevelt Road, Des Plaines River	22.0	4.00	725	0.0
22 Ogden Avenue, Des Plaines River	20.5	3.33	750	0.0
23 Willow Springs Road, Des Plaines River	17.4	3.45	739	0.0
29 Stephen Street, Des Plaines River	23.6	5.08	727	0.4
91 Material Service Road, Des Plaines River	23.1	5.17	739	0.0
110 Springinguth Road, West Branch DuPage River	11.0	3.00	752	0.0

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	NPS μg/L	SO ₄ mg/L	FOG mg/L	TP mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	49.2	ND	1.366
103 Golf Road, West Fork North Branch Chicago River	ND	58.0	ND	0.523
31 Lake-Cook Road, Middle Fork North Branch	ND	46.7	ND	0.128
104 Glenview Road, North Branch Chicago River	ND	54.4	ND	0.866
32 Lake-Cook Road, Skokie River	ND	50.9	ND	0.126
105 Frontage Road, Skokie River	ND	54.2	ND	1.053
34 Dempster Street, North Branch Chicago River	ND	54.6	ND	0.494
96 Albany Avenue, North Branch Chicago River	ND	53.0	ND	0.695
35 Central Street, North Shore Channel	ND	25.3	ND	0.078
102 Oakton Street, North Shore Channel	0.00	36.7	0.00	0.530
36 Touhy Avenue, North Shore Channel	0.00	41.9	0.00	1.154
101 Foster Avenue, North Shore Channel	ND	43.2	0.00	1.207
37 Wilson Avenue, North Branch Chicago River	ND	47.3	0.00	1.024
73 Diversey Parkway, North Branch Chicago River	ND	47.3	0.00	1.048
46 Grand Avenue, North Branch Chicago River	0.00	44.2	0.00	0.950
74 Lake Shore Drive, Chicago River	ND	25.8	ND	0.153
100 Wells Street, Chicago River	ND	31.2	ND	0.336
39 Madison Street, South Branch Chicago River	ND	39.8	0.00	0.649
108 Loomis Street, South Branch Chicago River	ND	41.4	0.00	0.657
99 Archer Avenue, South Fork South Branch Chicago River	ND	44.0	0.00	0.682
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	41.2	0.00	0.670
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.00	43.0	0.00	0.681
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	61.0	0.00	0.791
42 Route 83, Chicago Sanitary & Ship Canal	ND	65.0	0.00	0.837
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	75.5	0.00	1.008
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.00	82.5	0.00	1.121
Calumet River System				
49 Ewing Avenue, Calumet River	ND	24.5	ND	0.018
50 Burnham Avenue, Wolf Lake	ND	41.4	ND	0.043
55 130th Street, Calumet River	ND	52.7	ND	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	96.1	0.00	0.919
56 Indiana Avenue, Little Calumet River	0.00	61.2	0.00	0.369
76 Halsted Street, Little Calumet River	0.00	75.2	0.00	2.010
52 Wentworth Avenue, Little Calumet River	ND	96.3	ND	0.568
54 Joe Orr Road, Thorn Creek	ND	509.8	ND	1.267
97 170th Street, Thorn Creek	ND	318.3	ND	0.920
57 Ashland Avenue, Little Calumet River	ND	182.2	ND	0.758
58 Ashland Avenue, Calumet-Sag Channel	ND	138.1	0.00	1.578
59 Cicero Avenue, Calumet-Sag Channel	0.00	96.1	0.00	1.917
43 Route 83, Calumet-Sag Channel	ND	103.5	0.00	1.824
Des Plaines River System				
90 Route 19, Poplar Creek	ND	41.6	ND	0.097
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.00	57.7	ND	2.310
64 Lake Street, West Branch DuPage River	0.00	59.1	ND	1.148
79 Higgins Road, Salt Creek	0.00	46.3	ND	0.120
80 Arlington Heights Road, Salt Creek	0.00	68.0	ND	1.533
18 Devon Avenue, Salt Creek	ND	72.1	ND	1.643
24 Wolf Road, Salt Creek	0.00	75.7	ND	1.172
109 Brookfield Avenue, Salt Creek	ND	72.5	ND	1.041
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.00	39.4	ND	0.000
78 Wille Road, Higgins Creek	0.00	77.7	ND	1.018
12 Lake-Cook Road, Buffalo Creek	ND	76.8	ND	0.086
13 Lake-Cook Road, Des Plaines River	ND	58.7	ND	0.773
17 Oakton Street, Des Plaines River	ND	59.7	ND	0.802
19 Belmont Avenue, Des Plaines River	ND	61.5	ND	0.801
20 Roosevelt Road, Des Plaines River	ND	61.3	ND	0.734
22 Ogden Avenue, Des Plaines River	0.00	63.6	ND	0.787
23 Willow Springs Road, Des Plaines River	ND	65.2	ND	0.733
29 Stephen Street, Des Plaines River	ND	65.0	ND	0.708
91 Material Service Road, Des Plaines River	ND	66.8	ND	0.678
110 Springinsguth Road, West Branch DuPage River	ND	48.0	ND	0.190

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	CN mg/L	WAD-CN mg/L	F mg/L	TOC mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.000	0.505	4.89
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.374	4.70
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.226	6.79
104 Glenview Road, North Branch Chicago River	0.001	0.000	0.497	4.66
32 Lake-Cook Road, Skokie River	0.001	0.000	0.268	5.60
105 Frontage Road, Skokie River	0.001	0.000	0.528	4.58
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.395	4.33
96 Albany Avenue, North Branch Chicago River	0.001	0.000	0.417	5.35
35 Central Street, North Shore Channel	0.000	0.000	0.134	3.65
102 Oakton Street, North Shore Channel	0.000	0.000	0.375	4.09
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.663	4.95
101 Foster Avenue, North Shore Channel	0.001	0.001	0.684	6.04
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.614	4.48
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.657	4.68
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.623	4.53
74 Lake Shore Drive, Chicago River	0.000	0.000	0.208	2.55
100 Wells Street, Chicago River	0.001	0.000	0.316	2.93
39 Madison Street, South Branch Chicago River	0.001	0.000	0.493	4.04
108 Loomis Street, South Branch Chicago River	0.001	0.000	0.498	4.02
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.000	0.554	4.44
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.505	3.84
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.505	3.93
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.598	4.63
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	0.643	4.91
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.000	0.587	4.93
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.584	4.83
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.001	0.102	4.50
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.362	6.28
55 130th Street, Calumet River	0.000	0.000	0.212	2.84
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.002	0.000	0.596	10.66
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.272	3.64
76 Halsted Street, Little Calumet River	0.001	0.000	0.530	4.96
52 Wentworth Avenue, Little Calumet River	0.001	0.000	0.487	7.69
54 Joe Orr Road, Thorn Creek	0.002	0.001	0.482	5.96
97 170th Street, Thorn Creek	0.001	0.000	0.370	6.19
57 Ashland Avenue, Little Calumet River	0.002	0.000	0.422	5.60
58 Ashland Avenue, Calumet-Sag Channel	0.002	0.000	0.492	5.53
59 Cicero Avenue, Calumet-Sag Channel	0.001	0.000	0.483	5.55
43 Route 83, Calumet-Sag Channel	0.002	0.000	0.509	4.92
Des Plaines River System				
90 Route 19, Poplar Creek	0.001	0.000	0.144	5.67
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.003	0.002	0.643	6.54
64 Lake Street, West Branch DuPage River	0.003	0.001	0.377	5.80
79 Higgins Road, Salt Creek	0.001	0.000	0.179	6.64
80 Arlington Heights Road, Salt Creek	0.003	0.001	0.527	5.58
18 Devon Avenue, Salt Creek	0.003	0.001	0.566	5.59
24 Wolf Road, Salt Creek	0.002	0.000	0.433	4.95
109 Brookfield Avenue, Salt Creek	0.001	0.000	0.424	4.87
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.130	3.80
78 Wille Road, Higgins Creek	0.003	0.001	0.661	5.02
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.120	5.97
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.365	5.98
17 Oakton Street, Des Plaines River	0.000	0.000	0.363	5.94
19 Belmont Avenue, Des Plaines River	0.002	0.000	0.420	5.48
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.415	5.68
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.403	5.28
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.396	5.23
29 Stephen Street, Des Plaines River	0.000	0.001	0.383	5.45
91 Material Service Road, Des Plaines River	0.000	0.000	0.373	5.19
110 Springinguth Road, West Branch DuPage River	0.000	0.001	0.239	11.70

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	FC ² cfu/100mL	EColi ² cfu/100mL	Ca mg/L	Mg mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2364	1195	72.1	28.5
103 Golf Road, West Fork North Branch Chicago River	466	411	75.7	29.1
31 Lake-Cook Road, Middle Fork North Branch	646	348	61.3	26.4
104 Glenview Road, North Branch Chicago River	188	174	64.3	27.0
32 Lake-Cook Road, Skokie River	775	697	67.5	28.1
105 Frontage Road, Skokie River	112	129	63.5	27.0
34 Dempster Street, North Branch Chicago River	1472	2277	69.8	28.3
96 Albany Avenue, North Branch Chicago River	507	1244	65.4	26.3
35 Central Street, North Shore Channel	54	81	38.2	12.8
102 Oakton Street, North Shore Channel	615	3345	48.9	16.9
36 Touhy Avenue, North Shore Channel	5393	5491	52.3	18.0
101 Foster Avenue, North Shore Channel	5484	4095	55.0	19.1
37 Wilson Avenue, North Branch Chicago River	4091	3511	59.9	22.0
73 Diversey Parkway, North Branch Chicago River	3538	2336	58.5	21.1
46 Grand Avenue, North Branch Chicago River	971	573	57.0	20.3
74 Lake Shore Drive, Chicago River	28	17	38.2	12.7
100 Wells Street, Chicago River	182	33	43.5	15.0
39 Madison Street, South Branch Chicago River	415	180	51.3	18.2
108 Loomis Street, South Branch Chicago River	257	68	52.7	18.7
99 Archer Avenue, South Fork South Branch Chicago River	230	201	54.9	19.4
40 Damen Avenue, Chicago Sanitary & Ship Canal	258	230	53.4	19.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	137	58	53.8	19.4
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1391	1106	59.2	20.9
42 Route 83, Chicago Sanitary & Ship Canal	537	667	58.5	20.1
48 Stephen Street, Chicago Sanitary & Ship Canal	199	202	60.5	21.1
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	101	81	60.7	21.2
Calumet River System				
49 Ewing Avenue, Calumet River	15	23	35.2	11.8
50 Burnham Avenue, Wolf Lake	21	26	35.5	12.4
55 130th Street, Calumet River	35	43	41.8	14.2
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4613	204450	85.3	28.2
56 Indiana Avenue, Little Calumet River	74	126	47.6	16.2
76 Halsted Street, Little Calumet River	1926	3724	60.8	20.6
52 Wentworth Avenue, Little Calumet River	2585	2785	72.2	28.6
54 Joe Orr Road, Thorn Creek	1131	1368	79.2	28.3
97 170th Street, Thorn Creek	1086	435	73.9	29.7
57 Ashland Avenue, Little Calumet River	1346	552	69.4	26.5
58 Ashland Avenue, Calumet-Sag Channel	1280	436	65.3	23.4
59 Cicero Avenue, Calumet-Sag Channel	1060	360	63.9	22.4
43 Route 83, Calumet-Sag Channel	127	26	66.9	23.7
Des Plaines River System				
90 Route 19, Poplar Creek	87	144	75.9	32.3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	549	588	65.3	24.2
64 Lake Street, West Branch DuPage River	814	1509	79.2	28.3
79 Higgins Road, Salt Creek	154	209	50.6	20.7
80 Arlington Heights Road, Salt Creek	273	280	65.8	24.5
18 Devon Avenue, Salt Creek	472	552	68.3	25.6
24 Wolf Road, Salt Creek	358	218	70.8	27.1
109 Brookfield Avenue, Salt Creek	560	442	67.8	26.2
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	210	200	63.6	20.6
78 Wille Road, Higgins Creek	142	179	75.2	27.2
12 Lake-Cook Road, Buffalo Creek	140	280	76.8	32.6
13 Lake-Cook Road, Des Plaines River	245	333	67.8	29.5
17 Oakton Street, Des Plaines River	224	185	66.3	28.2
19 Belmont Avenue, Des Plaines River	423	477	65.1	26.8
20 Roosevelt Road, Des Plaines River	296	335	65.1	26.7
22 Ogden Avenue, Des Plaines River	363	364	65.3	26.5
23 Willow Springs Road, Des Plaines River	280	154	63.3	25.7
29 Stephen Street, Des Plaines River	162	179	67.1	27.3
91 Material Service Road, Des Plaines River	63	59	67.8	27.8
110 Springinsguth Road, West Branch DuPage River	1500	1606	72.1	25.5

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Hard mg/L	Alpha pCi/L	Beta pCi/L	Chlrphl µg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	297	2.75	8.10	8.1
103 Golf Road, West Fork North Branch Chicago River	309	3.38	7.99	14.0
31 Lake-Cook Road, Middle Fork North Branch	262	3.42	5.51	5.0
104 Glenview Road, North Branch Chicago River	272	3.56	6.34	7.0
32 Lake-Cook Road, Skokie River	284	3.10	6.18	7.0
105 Frontage Road, Skokie River	270	3.48	7.12	10.1
34 Dempster Street, North Branch Chicago River	291	3.68	5.94	7.7
96 Albany Avenue, North Branch Chicago River	272	3.67	7.06	8.8
35 Central Street, North Shore Channel	148	2.05	4.87	17.7
102 Oakton Street, North Shore Channel	192	2.67	5.19	16.8
36 Touhy Avenue, North Shore Channel	205	2.85	6.36	2.1
101 Foster Avenue, North Shore Channel	216	ND	ND	1.5
37 Wilson Avenue, North Branch Chicago River	240	ND	ND	2.5
73 Diversey Parkway, North Branch Chicago River	233	ND	ND	2.8
46 Grand Avenue, North Branch Chicago River	226	ND	ND	2.6
74 Lake Shore Drive, Chicago River	148	2.37	4.55	1.3
100 Wells Street, Chicago River	171	2.23	5.25	1.9
39 Madison Street, South Branch Chicago River	203	ND	ND	3.8
108 Loomis Street, South Branch Chicago River	209	ND	ND	2.3
99 Archer Avenue, South Fork South Branch Chicago River	217	ND	ND	13.3
40 Damen Avenue, Chicago Sanitary & Ship Canal	211	ND	ND	5.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	214	3.08	5.97	4.7
41 Harlem Avenue, Chicago Sanitary & Ship Canal	234	3.41	7.47	4.0
42 Route 83, Chicago Sanitary & Ship Canal	229	ND	ND	5.5
48 Stephen Street, Chicago Sanitary & Ship Canal	238	ND	ND	4.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	239	3.43	6.85	4.7
Calumet River System				
49 Ewing Avenue, Calumet River	136	1.84	4.38	0.9
50 Burnham Avenue, Wolf Lake	140	1.95	6.05	4.5
55 130th Street, Calumet River	163	2.15	4.79	3.7
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	329	ND	ND	75.6
56 Indiana Avenue, Little Calumet River	185	2.28	5.82	14.1
76 Halsted Street, Little Calumet River	237	3.07	6.34	4.1
52 Wentworth Avenue, Little Calumet River	298	2.91	7.19	8.2
54 Joe Orr Road, Thorn Creek	314	3.91	6.83	4.7
97 170th Street, Thorn Creek	307	3.98	7.91	11.2
57 Ashland Avenue, Little Calumet River	283	3.64	6.80	8.0
58 Ashland Avenue, Calumet-Sag Channel	259	ND	ND	7.0
59 Cicero Avenue, Calumet-Sag Channel	252	ND	ND	4.0
43 Route 83, Calumet-Sag Channel	265	ND	ND	5.2
Des Plaines River System				
90 Route 19, Poplar Creek	323	3.01	5.93	10.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	263	2.97	9.15	4.8
64 Lake Street, West Branch DuPage River	314	4.93	9.39	15.9
79 Higgins Road, Salt Creek	212	3.23	4.79	26.3
80 Arlington Heights Road, Salt Creek	265	3.16	6.94	15.6
18 Devon Avenue, Salt Creek	276	3.37	6.89	13.6
24 Wolf Road, Salt Creek	289	3.50	6.63	8.6
109 Brookfield Avenue, Salt Creek	277	3.30	8.37	8.2
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	244	2.64	4.78	28.3
78 Wille Road, Higgins Creek	300	2.59	6.42	2.6
12 Lake-Cook Road, Buffalo Creek	326	3.27	5.54	14.1
13 Lake-Cook Road, Des Plaines River	291	3.24	7.23	12.3
17 Oakton Street, Des Plaines River	282	2.71	5.94	14.2
19 Belmont Avenue, Des Plaines River	273	2.84	6.60	13.7
20 Roosevelt Road, Des Plaines River	272	4.18	6.24	12.6
22 Ogden Avenue, Des Plaines River	272	3.46	7.06	11.5
23 Willow Springs Road, Des Plaines River	264	3.65	6.11	12.6
29 Stephen Street, Des Plaines River	280	3.27	7.00	16.9
91 Material Service Road, Des Plaines River	284	3.48	8.06	26.3
110 Springinsguth Road, West Branch DuPage River	285	2.55	4.53	17.2

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Bnzn µg/L	Ebnzn µg/L	Toln µg/L	Xyln µg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	1.200	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Ag mg/L	As mg/L	Ba mg/L	B mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.064	0.138
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.054	0.124
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.039	0.067
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.033	0.126
32 Lake-Cook Road, Skokie River	0.000	0.000	0.042	0.092
105 Frontage Road, Skokie River	0.000	0.000	0.030	0.137
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.040	0.107
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.038	0.118
35 Central Street, North Shore Channel	0.000	0.000	0.023	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.026	0.060
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.022	0.160
101 Foster Avenue, North Shore Channel	0.000	0.000	0.023	0.151
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.028	0.138
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.026	0.143
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.026	0.132
74 Lake Shore Drive, Chicago River	0.000	0.000	0.023	0.024
100 Wells Street, Chicago River	0.000	0.000	0.023	0.044
39 Madison Street, South Branch Chicago River	0.000	0.000	0.026	0.103
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.026	0.107
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.026	0.118
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.027	0.108
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.026	0.114
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.022	0.152
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.021	0.221
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.023	0.204
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.023	0.203
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.022	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.035	0.242
55 130th Street, Calumet River	0.000	0.000	0.028	0.089
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.037	0.774
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.029	0.111
76 Halsted Street, Little Calumet River	0.000	0.000	0.021	0.173
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.044	0.179
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.035	0.221
97 170th Street, Thorn Creek	0.000	0.000	0.041	0.194
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.039	0.180
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.029	0.176
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.026	0.172
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.026	0.181
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.069	0.025
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.031	0.216
64 Lake Street, West Branch DuPage River	0.000	0.000	0.046	0.102
79 Higgins Road, Salt Creek	0.000	0.000	0.038	0.051
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.031	0.190
18 Devon Avenue, Salt Creek	0.000	0.000	0.034	0.189
24 Wolf Road, Salt Creek	0.000	0.000	0.037	0.162
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.036	0.181
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.061	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.026	0.202
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.050	0.073
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.042	0.141
17 Oakton Street, Des Plaines River	0.000	0.000	0.044	0.141
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.040	0.149
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.040	0.155
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.038	0.151
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.037	0.155
29 Stephen Street, Des Plaines River	0.000	0.000	0.038	0.145
91 Material Service Road, Des Plaines River	0.000	0.000	0.037	0.148
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.047	0.051

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Cd mg/L	Cu mg/L	Cr mg/L	Cr ⁺⁶ µg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.004	0.001	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.001	0.001	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.001	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.003	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.001	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.001	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.003	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.001	0.000
97 170th Street, Thorn Creek	0.000	0.001	0.002	0.000
57 Ashland Avenue, Little Calumet River	0.000	0.001	0.002	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.002	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.002	0.002	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.001	0.001	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.003	0.001	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.002	0.000	0.002	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.002	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.002	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.013	11.583
29 Stephen Street, Des Plaines River	0.000	0.001	0.001	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.000
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Fe mg/L	Pb mg/L	Ni mg/L	Mn mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.991	0.000	0.002	0.094
103 Golf Road, West Fork North Branch Chicago River	0.571	0.000	0.001	0.066
31 Lake-Cook Road, Middle Fork North Branch	0.698	0.000	0.000	0.171
104 Glenview Road, North Branch Chicago River	0.614	0.000	0.000	0.072
32 Lake-Cook Road, Skokie River	0.602	0.000	0.002	0.120
105 Frontage Road, Skokie River	0.459	0.000	0.001	0.069
34 Dempster Street, North Branch Chicago River	0.469	0.000	0.000	0.069
96 Albany Avenue, North Branch Chicago River	0.605	0.000	0.000	0.058
35 Central Street, North Shore Channel	0.174	0.000	0.000	0.020
102 Oakton Street, North Shore Channel	0.553	0.000	0.000	0.041
36 Touhy Avenue, North Shore Channel	0.134	0.000	0.000	0.027
101 Foster Avenue, North Shore Channel	0.171	0.000	0.000	0.023
37 Wilson Avenue, North Branch Chicago River	0.309	0.000	0.000	0.033
73 Diversey Parkway, North Branch Chicago River	0.274	0.000	0.000	0.034
46 Grand Avenue, North Branch Chicago River	0.320	0.000	0.000	0.032
74 Lake Shore Drive, Chicago River	0.090	0.000	0.000	0.017
100 Wells Street, Chicago River	0.126	0.000	0.001	0.019
39 Madison Street, South Branch Chicago River	0.336	0.000	0.000	0.036
108 Loomis Street, South Branch Chicago River	0.360	0.001	0.000	0.036
99 Archer Avenue, South Fork South Branch Chicago River	0.394	0.002	0.000	0.034
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.393	0.001	0.000	0.034
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.389	0.001	0.000	0.033
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.207	0.000	0.001	0.039
42 Route 83, Chicago Sanitary & Ship Canal	0.209	0.001	0.001	0.024
48 Stephen Street, Chicago Sanitary & Ship Canal	0.345	0.000	0.000	0.065
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.338	0.000	0.000	0.042
Calumet River System				
49 Ewing Avenue, Calumet River	0.067	0.000	0.000	0.023
50 Burnham Avenue, Wolf Lake	0.082	0.000	0.002	0.058
55 130th Street, Calumet River	0.103	0.000	0.000	0.026
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.404	0.000	0.000	0.221
56 Indiana Avenue, Little Calumet River	0.288	0.002	0.000	0.085
76 Halsted Street, Little Calumet River	0.222	0.000	0.000	0.049
52 Wentworth Avenue, Little Calumet River	3.213	0.000	0.002	0.147
54 Joe Orr Road, Thorn Creek	1.170	0.000	0.000	0.073
97 170th Street, Thorn Creek	2.409	0.000	0.004	0.115
57 Ashland Avenue, Little Calumet River	2.236	0.002	0.000	0.108
58 Ashland Avenue, Calumet-Sag Channel	0.906	0.002	0.000	0.081
59 Cicero Avenue, Calumet-Sag Channel	0.665	0.000	0.000	0.064
43 Route 83, Calumet-Sag Channel	0.430	0.001	0.001	0.065
Des Plaines River System				
90 Route 19, Poplar Creek	0.796	0.000	0.000	0.105
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.446	0.000	0.001	0.066
64 Lake Street, West Branch DuPage River	0.913	0.000	0.000	0.101
79 Higgins Road, Salt Creek	1.280	0.000	0.000	0.112
80 Arlington Heights Road, Salt Creek	0.298	0.000	0.003	0.061
18 Devon Avenue, Salt Creek	0.374	0.000	0.004	0.079
24 Wolf Road, Salt Creek	0.785	0.000	0.003	0.061
109 Brookfield Avenue, Salt Creek	0.716	0.000	0.002	0.066
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.780	0.000	0.000	0.090
78 Wille Road, Higgins Creek	0.078	0.000	0.004	0.070
12 Lake-Cook Road, Buffalo Creek	1.391	0.002	0.000	0.143
13 Lake-Cook Road, Des Plaines River	0.682	0.000	0.000	0.084
17 Oakton Street, Des Plaines River	0.525	0.000	0.000	0.064
19 Belmont Avenue, Des Plaines River	0.681	0.000	0.000	0.084
20 Roosevelt Road, Des Plaines River	0.698	0.000	0.000	0.066
22 Ogden Avenue, Des Plaines River	0.773	0.000	0.000	0.059
23 Willow Springs Road, Des Plaines River	0.634	0.000	0.000	0.058
29 Stephen Street, Des Plaines River	0.715	0.000	0.000	0.059
91 Material Service Road, Des Plaines River	0.713	0.000	0.000	0.060
110 Springinsguth Road, West Branch DuPage River	1.005	0.000	0.000	0.133

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Hg μg/L	Hg- ηg/L	Zn mg/L	Se mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	7.0	0.013	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	9.7	0.006	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	1.9	0.002	0.000
104 Glenview Road, North Branch Chicago River	0.000	3.0	0.021	0.000
32 Lake-Cook Road, Skokie River	0.000	5.2	0.007	0.000
105 Frontage Road, Skokie River	0.000	2.4	0.015	0.000
34 Dempster Street, North Branch Chicago River	0.000	3.3	0.012	0.000
96 Albany Avenue, North Branch Chicago River	0.000	4.3	0.007	0.000
35 Central Street, North Shore Channel	0.000	1.8	0.002	0.000
102 Oakton Street, North Shore Channel	0.000	7.2	0.012	0.000
36 Touhy Avenue, North Shore Channel	0.000	ND	0.020	0.000
101 Foster Avenue, North Shore Channel	0.000	ND	0.019	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	ND	0.018	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	ND	0.020	0.000
46 Grand Avenue, North Branch Chicago River	0.000	ND	0.019	0.000
74 Lake Shore Drive, Chicago River	0.000	1.0	0.001	0.000
100 Wells Street, Chicago River	0.000	2.2	0.013	0.000
39 Madison Street, South Branch Chicago River	0.000	ND	0.013	0.000
108 Loomis Street, South Branch Chicago River	0.000	ND	0.011	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	ND	0.010	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	0.015	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	ND	0.014	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	ND	0.020	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	ND	0.015	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	ND	0.015	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	ND	0.016	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.6	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.9	0.003	0.000
55 130th Street, Calumet River	0.000	2.2	0.004	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	ND	0.021	0.001
56 Indiana Avenue, Little Calumet River	0.000	ND	0.007	0.000
76 Halsted Street, Little Calumet River	0.000	ND	0.016	0.000
52 Wentworth Avenue, Little Calumet River	0.000	6.4	0.014	0.000
54 Joe Orr Road, Thorn Creek	0.000	3.1	0.027	0.000
97 170th Street, Thorn Creek	0.000	15.1	0.025	0.000
57 Ashland Avenue, Little Calumet River	0.000	9.2	0.018	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	ND	0.015	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	ND	0.012	0.000
43 Route 83, Calumet-Sag Channel	0.000	ND	0.010	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	1.5	0.002	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	5.1	0.030	0.000
64 Lake Street, West Branch DuPage River	0.000	3.0	0.032	0.000
79 Higgins Road, Salt Creek	0.000	3.3	0.004	0.000
80 Arlington Heights Road, Salt Creek	0.000	2.5	0.011	0.000
18 Devon Avenue, Salt Creek	0.000	2.1	0.011	0.000
24 Wolf Road, Salt Creek	0.000	4.8	0.016	0.000
109 Brookfield Avenue, Salt Creek	0.000	3.9	0.016	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	5.2	0.020	0.000
78 Wille Road, Higgins Creek	0.000	0.8	0.026	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	2.3	0.014	0.000
13 Lake-Cook Road, Des Plaines River	0.000	1.9	0.007	0.000
17 Oakton Street, Des Plaines River	0.000	2.4	0.003	0.000
19 Belmont Avenue, Des Plaines River	0.000	2.8	0.012	0.000
20 Roosevelt Road, Des Plaines River	0.000	3.7	0.015	0.000
22 Ogden Avenue, Des Plaines River	0.000	3.7	0.017	0.000
23 Willow Springs Road, Des Plaines River	0.000	3.6	0.010	0.000
29 Stephen Street, Des Plaines River	0.000	4.2	0.015	0.000
91 Material Service Road, Des Plaines River	0.000	3.9	0.014	0.000
110 Springinguth Road, West Branch DuPage River	0.000	1.4	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Sol. Ca mg/L	Sol. Mg mg/L	Sol. Ag mg/L	Sol. As mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	75.3	30.8	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	72.4	29.2	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	63.8	28.2	0.000	0.000
104 Glenview Road, North Branch Chicago River	65.0	28.5	0.000	0.000
32 Lake-Cook Road, Skokie River	72.2	31.5	0.000	0.000
105 Frontage Road, Skokie River	63.7	27.9	0.000	0.000
34 Dempster Street, North Branch Chicago River	71.7	29.9	0.000	0.000
96 Albany Avenue, North Branch Chicago River	65.8	27.4	0.000	0.000
35 Central Street, North Shore Channel	38.1	13.1	0.000	0.000
102 Oakton Street, North Shore Channel	48.4	17.2	0.000	0.000
36 Touhy Avenue, North Shore Channel	51.7	18.5	0.000	0.000
101 Foster Avenue, North Shore Channel	55.2	19.8	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	60.0	22.7	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	57.9	21.3	0.000	0.000
46 Grand Avenue, North Branch Chicago River	55.5	20.4	0.000	0.000
74 Lake Shore Drive, Chicago River	37.3	12.9	0.000	0.000
100 Wells Street, Chicago River	43.0	15.2	0.000	0.000
39 Madison Street, South Branch Chicago River	49.7	18.0	0.000	0.000
108 Loomis Street, South Branch Chicago River	51.2	18.6	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	54.6	19.7	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	51.9	18.8	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	52.8	19.3	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	58.1	21.0	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	57.4	20.3	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	58.5	20.9	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	59.0	21.2	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	34.4	11.7	0.000	0.000
50 Burnham Avenue, Wolf Lake	36.0	12.6	0.000	0.000
55 130th Street, Calumet River	41.5	14.5	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	78.8	27.1	0.000	0.000
56 Indiana Avenue, Little Calumet River	47.5	16.6	0.000	0.000
76 Halsted Street, Little Calumet River	61.6	21.3	0.000	0.000
52 Wentworth Avenue, Little Calumet River	65.1	26.3	0.000	0.000
54 Joe Orr Road, Thorn Creek	77.0	28.3	0.000	0.000
97 170th Street, Thorn Creek	68.6	28.2	0.000	0.000
57 Ashland Avenue, Little Calumet River	68.2	26.5	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	59.7	21.6	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	62.5	22.7	0.000	0.000
43 Route 83, Calumet-Sag Channel	64.9	23.8	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	69.9	31.9	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	62.0	23.7	0.000	0.000
64 Lake Street, West Branch DuPage River	75.0	28.0	0.000	0.000
79 Higgins Road, Salt Creek	47.1	19.5	0.000	0.000
80 Arlington Heights Road, Salt Creek	63.4	24.4	0.000	0.000
18 Devon Avenue, Salt Creek	67.5	25.8	0.000	0.000
24 Wolf Road, Salt Creek	70.4	27.2	0.000	0.000
109 Brookfield Avenue, Salt Creek	66.1	26.0	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	46.1	15.7	0.000	0.000
78 Wille Road, Higgins Creek	71.9	26.7	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	72.7	31.6	0.000	0.000
13 Lake-Cook Road, Des Plaines River	64.8	29.0	0.000	0.000
17 Oakton Street, Des Plaines River	62.9	27.3	0.000	0.000
19 Belmont Avenue, Des Plaines River	62.1	26.1	0.000	0.000
20 Roosevelt Road, Des Plaines River	61.6	25.8	0.000	0.000
22 Ogden Avenue, Des Plaines River	63.3	26.3	0.000	0.000
23 Willow Springs Road, Des Plaines River	61.9	25.7	0.000	0.000
29 Stephen Street, Des Plaines River	64.2	26.7	0.000	0.000
91 Material Service Road, Des Plaines River	66.7	28.0	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	68.9	25.2	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Sol. Ba mg/L	Sol. B mg/L	Sol. Cd mg/L	Sol. Cu mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.060	0.156	0.001	0.005
103 Golf Road, West Fork North Branch Chicago River	0.046	0.125	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.037	0.088	0.001	0.000
104 Glenview Road, North Branch Chicago River	0.029	0.131	0.000	0.000
32 Lake-Cook Road, Skokie River	0.041	0.109	0.000	0.000
105 Frontage Road, Skokie River	0.027	0.136	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.037	0.113	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.035	0.123	0.000	0.000
35 Central Street, North Shore Channel	0.022	0.013	0.000	0.000
102 Oakton Street, North Shore Channel	0.022	0.077	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.020	0.161	0.000	0.000
101 Foster Avenue, North Shore Channel	0.022	0.156	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.026	0.142	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.024	0.145	0.000	0.001
46 Grand Avenue, North Branch Chicago River	0.022	0.134	0.000	0.000
74 Lake Shore Drive, Chicago River	0.022	0.040	0.000	0.001
100 Wells Street, Chicago River	0.022	0.064	0.000	0.002
39 Madison Street, South Branch Chicago River	0.022	0.109	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.023	0.114	0.000	0.002
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.129	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.022	0.115	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.021	0.121	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.020	0.160	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.018	0.232	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.019	0.212	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.020	0.203	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.021	0.032	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.034	0.236	0.000	0.000
55 130th Street, Calumet River	0.027	0.096	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.025	0.686	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.026	0.115	0.000	0.000
76 Halsted Street, Little Calumet River	0.018	0.172	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.030	0.175	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.031	0.220	0.000	0.001
97 170th Street, Thorn Creek	0.029	0.185	0.000	0.000
57 Ashland Avenue, Little Calumet River	0.031	0.188	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.022	0.159	0.000	0.002
59 Cicero Avenue, Calumet-Sag Channel	0.022	0.174	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.023	0.183	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.062	0.037	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.027	0.215	0.000	0.002
64 Lake Street, West Branch DuPage River	0.038	0.119	0.000	0.000
79 Higgins Road, Salt Creek	0.030	0.075	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.027	0.190	0.000	0.001
18 Devon Avenue, Salt Creek	0.028	0.197	0.000	0.001
24 Wolf Road, Salt Creek	0.031	0.164	0.000	0.002
109 Brookfield Avenue, Salt Creek	0.031	0.184	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.040	0.055	0.000	0.000
78 Wille Road, Higgins Creek	0.022	0.202	0.000	0.004
12 Lake-Cook Road, Buffalo Creek	0.042	0.091	0.002	0.000
13 Lake-Cook Road, Des Plaines River	0.035	0.141	0.000	0.000
17 Oakton Street, Des Plaines River	0.038	0.144	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.034	0.152	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.034	0.157	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.033	0.152	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.032	0.158	0.000	0.000
29 Stephen Street, Des Plaines River	0.031	0.146	0.000	0.000
91 Material Service Road, Des Plaines River	0.032	0.151	0.000	0.000
110 Springinguth Road, West Branch DuPage River	0.042	0.077	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Sol. Cr mg/L	Sol. Fe mg/L	Sol. Pb mg/L	Sol. Ni mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.025	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.023	0.000	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.073	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.021	0.000	0.000
32 Lake-Cook Road, Skokie River	0.000	0.032	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.079	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.041	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.023	0.000	0.000
35 Central Street, North Shore Channel	0.000	0.014	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.025	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.021	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.024	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.025	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.028	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.026	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.011	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.026	0.000	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.027	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.045	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.032	0.000	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.026	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.033	0.000	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.049	0.000	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.025	0.002	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.026	0.000	0.001
Calumet River System				
49 Ewing Avenue, Calumet River	0.001	0.000	0.004	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.014	0.002	0.000
55 130th Street, Calumet River	0.000	0.002	0.002	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.110	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.003	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.022	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.071	0.000	0.001
54 Joe Orr Road, Thorn Creek	0.000	0.089	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.076	0.000	0.001
57 Ashland Avenue, Little Calumet River	0.000	0.052	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.047	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.045	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.035	0.000	0.001
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.058	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.033	0.000	0.001
64 Lake Street, West Branch DuPage River	0.000	0.045	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.039	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.056	0.002	0.005
18 Devon Avenue, Salt Creek	0.000	0.045	0.002	0.006
24 Wolf Road, Salt Creek	0.000	0.030	0.000	0.003
109 Brookfield Avenue, Salt Creek	0.000	0.032	0.002	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.035	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.032	0.005	0.006
12 Lake-Cook Road, Buffalo Creek	0.000	0.037	0.003	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.036	0.002	0.000
17 Oakton Street, Des Plaines River	0.000	0.046	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.031	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.001	0.025	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.036	0.002	0.000
23 Willow Springs Road, Des Plaines River	0.012	0.035	0.002	0.000
29 Stephen Street, Des Plaines River	0.000	0.031	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.027	0.002	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	0.294	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2010

Sampling Station (No. Name)	Sol. Mn mg/L	Sol. Zn mg/L	Sol. Se mg/L
Chicago River System			
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.076	0.009	0.000
103 Golf Road, West Fork North Branch Chicago River	0.048	0.005	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.154	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.055	0.007	0.000
32 Lake-Cook Road, Skokie River	0.089	0.000	0.000
105 Frontage Road, Skokie River	0.025	0.013	0.000
34 Dempster Street, North Branch Chicago River	0.056	0.007	0.000
96 Albany Avenue, North Branch Chicago River	0.040	0.003	0.000
35 Central Street, North Shore Channel	0.012	0.000	0.000
102 Oakton Street, North Shore Channel	0.025	0.012	0.000
36 Touhy Avenue, North Shore Channel	0.018	0.027	0.000
101 Foster Avenue, North Shore Channel	0.013	0.024	0.000
37 Wilson Avenue, North Branch Chicago River	0.025	0.018	0.000
73 Diversey Parkway, North Branch Chicago River	0.029	0.018	0.000
46 Grand Avenue, North Branch Chicago River	0.025	0.019	0.000
74 Lake Shore Drive, Chicago River	0.012	0.003	0.000
100 Wells Street, Chicago River	0.017	0.009	0.000
39 Madison Street, South Branch Chicago River	0.031	0.012	0.000
108 Loomis Street, South Branch Chicago River	0.028	0.018	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.029	0.011	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.026	0.012	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.023	0.011	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.041	0.022	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.020	0.021	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.026	0.014	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.031	0.015	0.000
Calumet River System			
49 Ewing Avenue, Calumet River	0.006	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.022	0.000	0.000
55 130th Street, Calumet River	0.017	0.003	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.198	0.000	0.005
56 Indiana Avenue, Little Calumet River	0.029	0.004	0.000
76 Halsted Street, Little Calumet River	0.038	0.017	0.000
52 Wentworth Avenue, Little Calumet River	0.093	0.005	0.000
54 Joe Orr Road, Thorn Creek	0.051	0.024	0.000
97 170th Street, Thorn Creek	0.062	0.005	0.000
57 Ashland Avenue, Little Calumet River	0.058	0.005	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.050	0.009	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.047	0.008	0.000
43 Route 83, Calumet-Sag Channel	0.047	0.006	0.000
Des Plaines River System			
90 Route 19, Poplar Creek	0.067	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.047	0.030	0.000
64 Lake Street, West Branch DuPage River	0.063	0.014	0.000
79 Higgins Road, Salt Creek	0.025	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.032	0.014	0.008
18 Devon Avenue, Salt Creek	0.042	0.017	0.000
24 Wolf Road, Salt Creek	0.034	0.015	0.000
109 Brookfield Avenue, Salt Creek	0.041	0.013	0.000
21 First Avenue, Salt Creek	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.027	0.000	0.000
78 Wille Road, Higgins Creek	0.022	0.023	0.000
12 Lake-Cook Road, Buffalo Creek	0.056	0.002	0.000
13 Lake-Cook Road, Des Plaines River	0.036	0.009	0.000
17 Oakton Street, Des Plaines River	0.028	0.006	0.000
19 Belmont Avenue, Des Plaines River	0.038	0.009	0.000
20 Roosevelt Road, Des Plaines River	0.030	0.011	0.000
22 Ogden Avenue, Des Plaines River	0.026	0.013	0.000
23 Willow Springs Road, Des Plaines River	0.027	0.010	0.000
29 Stephen Street, Des Plaines River	0.023	0.010	0.000
91 Material Service Road, Des Plaines River	0.023	0.007	0.008
110 Springinguth Road, West Branch DuPage River	0.117	0.002	0.000

ND = No Data.
¹ Un-ionized Ammonia.
² Geometric Mean.

**TABLE AII-2: DISSOLVED OXYGEN VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	1/11	2/11	0/4	0/5	0/4	1/6	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	2/11	2/10	3/11	0/12	2/10	1/10	3/8
31 Lake-Cook Road, Middle Fork North Branch	1/9	0/10	2/10	4/10	2/11	6/10	5/10	5/9
104 Glenview Road, North Branch Chicago River	0/9	1/12	3/12	4/11	0/12	1/12	1/12	0/3
32 Lake-Cook Road, Skokie River	1/9	0/10	1/10	3/10	1/12	2/11	2/10	2/9
105 Frontage Road, Skokie River	1/12	0/12	1/12	1/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	1/8	1/12	5/11	4/11	1/12	3/11	0/12	1/11
96 Albany Avenue, North Branch Chicago River	1/11	0/12	1/12	1/11	0/12	1/11	0/11	1/10
35 Central Street, North Shore Channel	0/8	1/9	2/9	0/9	1/9	2/8	1/9	1/9
102 Oakton Street, North Shore Channel	2/11	1/11	2/11	2/12	0/12	0/12	2/12	1/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/11	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	1/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	1/12	0/12	1/12	0/12	0/12	1/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	1/12	0/11	0/11	1/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	1/11	0/11	0/10	0/9	1/10
100 Wells Street, Chicago River	0/12	0/11	1/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	1/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	1/10	4/11	4/12	1/11	1/7	1/11	2/12	2/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	2/12	1/12	0/12	0/12	1/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	1/12	3/12	1/12	1/13	1/12	1/12	3/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	1/13	0/11	0/12	1/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	1/11	1/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6/51	1/50	2/51	4/51	3/53	5/52	3/50	5/51
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	1/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	1/12	2/11	0/11	1/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	1/9	0/10	1/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4/7	1/5	3/10	4/10	4/11	4/10	5/9	7/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	2/9	0/8	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	1/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	1/10	4/10	4/11	0/11	5/11	3/9	3/10
54 Joe Orr Road, Thorn Creek	1/9	0/9	0/9	0/10	0/9	2/8	0/6	0/3
97 170th Street, Thorn Creek	0/11	0/9	2/10	0/11	1/11	1/11	0/11	1/10
57 Ashland Avenue, Little Calumet River	1/10	1/9	5/10	4/11	0/11	5/11	4/10	6/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/10	0/10	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/10	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	1/12	0/12	0/12	0/12	1/11	0/12
79 Higgins Road, Salt Creek	0/8	0/8	3/9	1/10	1/9	3/9	0/10	2/9
80 Arlington Heights Road, Salt Creek	0/12	1/12	0/12	0/12	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/10	2/12	0/12	0/11	0/12	0/12	1/10	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	1/11	0/11	2/12	1/12	0/10	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	1/7	0/4	0/3	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	1/7	0/9	1/11	0/9	1/9	0/7	0/6	1/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	1/12	1/12	0/12	0/10	1/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	2/11	1/12	2/12	0/10	1/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	1/12	2/11	1/12	3/12	3/10	2/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	1/12	2/11	1/12	2/12	3/10	1/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/10	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	1/12	0/10	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/11	0/10	0/11
91 Material Service Road, Des Plaines River	0/12	1/12	1/12	0/11	0/12	0/12	1/10	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	3/9	6/11	6/10	5/11	4/11	5/9	ND

ND = No Data.

TABLE AII-3: TEMPERATURE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	1/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/10	0/10	0/10	0/8
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	1/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/9	0/12	1/11	0/10	0/8
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/11
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	1/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/11	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/11
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/11
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/51	0/50	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/9	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/10	0/11	0/12	0/12	1/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/9	0/11	0/11	0/11	0/10
51 JHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/9	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	1/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	1/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	1/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	1/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/10	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	1/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	1/12
24 Wolf Road, Salt Creek	0/10	0/12	1/12	0/11	0/12	0/12	0/11	0/11
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/9
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	1/11	0/12	0/12	0/11	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/10	0/9	0/9	0/6	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/11	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/11	0/11	0/12	0/11	1/11	0/12
20 Roosevelt Road, Des Plaines River	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/10	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/10	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/10	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/10	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

TABLE AII-4: pH VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/8
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	2/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/9	0/12	2/11	0/10	0/7
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	2/12	0/12	0/11
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/11	2/11	0/11	0/10
35 Central Street, North Shore Channel	1/8	0/9	0/9	0/9	0/8	0/8	0/9	1/9
102 Oakton Street, North Shore Channel	1/11	0/11	0/11	0/12	0/11	1/12	0/11	1/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/11	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/11	0/13	0/12	0/11
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	1/11	0/9	0/10	0/11	0/11	0/10	0/9	1/10
100 Wells Street, Chicago River	1/12	0/11	0/12	0/11	0/12	1/12	0/12	0/12
39 Madison Street, South Branch Chicago River	1/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/10	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/50	1/52	1/51	0/50	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	1/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	1/12	1/11	2/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	1/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	1/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	1/11	1/10	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	1/10	0/9	0/8	0/6	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	1/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	2/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	1/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	1/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	1/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	1/12	0/12	0/10	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	1/12	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	1/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	1/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	2/12	0/12	0/11	0/11
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	2/12	0/12	0/11	0/9
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/11	0/12	0/12	1/11	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/10	0/9	1/9	0/6	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/11	1/12	0/12	2/11	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	1/11	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/11	0/11	0/12	1/11	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/10	0/11	0/11	0/11	0/12	1/11	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	2/12	0/12	0/10	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	1/12	0/12	0/10	0/10
29 Stephen Street, Des Plaines River	0/12	1/11	0/12	0/11	1/12	0/12	0/10	0/11
91 Material Service Road, Des Plaines River	0/12	1/11	0/12	0/11	0/12	0/12	0/10	0/12
110 Springinsguth Road, West Branch DuPage River	1/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

TABLE AII-5: CHLORIDE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	3/10	4/11	3/11	0/4	1/5	2/4	3/8	0/3
103 Golf Road, West Fork North Branch Chicago River	2/10	3/11	2/10	2/10	2/12	5/10	0/9	1/8
31 Lake-Cook Road, Middle Fork North Branch	1/9	0/10	1/10	0/10	1/11	0/10	0/9	0/9
104 Glenview Road, North Branch Chicago River	1/9	0/12	1/12	1/11	1/12	1/12	1/11	0/3
32 Lake-Cook Road, Skokie River	1/9	0/10	1/10	0/10	0/12	2/11	0/9	0/9
105 Frontage Road, Skokie River	0/12	0/12	2/12	0/11	0/12	0/12	0/11	0/12
34 Dempster Street, North Branch Chicago River	1/8	0/12	2/11	1/11	1/12	2/11	1/11	0/11
96 Albany Avenue, North Branch Chicago River	2/11	1/12	3/12	1/11	2/12	1/11	0/10	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/8	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/11	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	1/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/10	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	1/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	1/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	1/10	0/9	0/10	0/11	0/11	1/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	1/10	0/11	1/11	1/11	2/12	1/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	1/12	0/12	1/12	0/12	1/11	1/11
64 Lake Street, West Branch DuPage River	1/6	0/12	1/12	1/12	0/12	0/12	1/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	2/9	2/10	1/9	2/9	2/11	1/9
80 Arlington Heights Road, Salt Creek	1/12	0/12	3/12	1/12	2/12	2/12	1/12	1/12
18 Devon Avenue, Salt Creek	1/10	0/11	3/12	1/12	2/12	2/12	1/12	1/12
24 Wolf Road, Salt Creek	1/10	0/12	3/12	1/11	0/12	1/12	1/11	2/12
109 Brookfield Avenue, Salt Creek	1/11	0/11	2/11	1/11	1/12	1/12	1/11	1/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1/1	1/4	2/5	0/5	2/7	2/4	3/6	1/5
78 Wille Road, Higgins Creek	0/9	1/12	1/12	1/12	0/12	1/12	0/11	1/12
12 Lake-Cook Road, Buffalo Creek	1/7	0/9	3/11	1/9	0/9	1/7	0/7	1/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	1/11	0/11	0/11	0/11	1/12	1/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	1/11	0/12	1/12	0/11	2/12	0/12	0/11	1/12
20 Roosevelt Road, Des Plaines River	1/11	0/11	3/12	0/11	2/12	1/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	1/12	0/11	2/11	0/11	1/12	1/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	1/11	0/11	2/11	2/11	1/12	1/12	0/11	0/10
29 Stephen Street, Des Plaines River	1/12	0/11	3/12	1/11	1/12	1/12	1/11	0/11
91 Material Service Road, Des Plaines River	1/12	0/12	2/12	1/11	1/12	1/12	1/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	1/9	1/11	1/10	2/11	3/11	1/10	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-6: AMMONIUM NITROGEN VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-7: UN-IONIZED AMMONIA VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/11	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/11	0/13	0/12	0/11
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	1/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	1/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	1/12	0/12	0/11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/11	0/11
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/10	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/50	0/52	0/51	0/49	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/7	0/5	0/10	1/9	0/11	0/10	0/9	1/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/8	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-8: TOTAL DISSOLVED SOLIDS VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	5/10	5/11	4/11	1/4	2/5	2/4	4/8	0/3
103 Golf Road, West Fork North Branch Chicago River	4/10	3/11	2/10	5/11	4/12	6/10	3/10	1/8
31 Lake-Cook Road, Middle Fork North Branch	3/9	0/10	2/10	3/10	1/11	3/10	0/10	1/9
104 Glenview Road, North Branch Chicago River	1/9	1/12	3/12	1/11	1/12	1/12	1/12	0/3
32 Lake-Cook Road, Skokie River	1/9	0/10	1/10	3/10	0/12	5/11	0/10	1/9
105 Frontage Road, Skokie River	1/12	1/12	3/12	1/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	2/8	2/12	3/11	1/11	2/12	3/11	1/12	2/11
96 Albany Avenue, North Branch Chicago River	3/11	2/12	4/12	2/11	2/12	4/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	1/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	2/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	1/12	0/12	2/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	1/12	0/12	1/11	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	1/12	1/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	1/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	1/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	1/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	1/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1/51	0/51	3/51	0/51	0/53	1/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	1/11	0/10	0/10	0/11	0/11	0/11	0/9	3/10
54 Joe Orr Road, Thorn Creek	6/9	5/9	8/8	9/10	9/9	5/8	6/7	1/3
97 170th Street, Thorn Creek	5/11	3/9	6/11	4/11	5/11	9/11	6/11	7/10
57 Ashland Avenue, Little Calumet River	2/10	0/9	4/10	2/11	3/11	2/11	4/10	5/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	1/10	0/11	1/11	1/11	3/12	3/11	1/11	1/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	1/12	0/12	1/12	1/12	1/12	0/12	2/11	2/11
64 Lake Street, West Branch DuPage River	1/6	0/12	2/12	1/12	0/12	1/12	1/12	1/12
79 Higgins Road, Salt Creek	0/8	0/8	4/9	5/10	1/9	4/9	5/11	1/9
80 Arlington Heights Road, Salt Creek	3/12	0/12	4/12	2/12	2/12	2/12	1/12	1/12
18 Devon Avenue, Salt Creek	3/10	0/11	4/12	2/12	3/12	4/12	1/12	1/12
24 Wolf Road, Salt Creek	2/10	1/12	5/12	1/11	2/12	3/12	1/11	2/12
109 Brookfield Avenue, Salt Creek	3/11	1/11	4/11	2/11	3/12	3/12	1/11	1/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1/1	1/4	3/5	0/5	2/7	2/4	3/6	1/5
78 Wille Road, Higgins Creek	1/9	1/12	2/12	2/12	2/12	1/12	0/11	1/12
12 Lake-Cook Road, Buffalo Creek	1/7	0/9	3/11	1/9	2/9	5/7	1/7	1/8
13 Lake-Cook Road, Des Plaines River	1/11	0/12	0/12	0/12	1/12	1/12	0/11	0/12
17 Oakton Street, Des Plaines River	1/11	0/11	1/11	0/11	2/12	1/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	2/11	0/12	2/12	0/11	2/12	1/12	2/11	1/12
20 Roosevelt Road, Des Plaines River	2/11	0/11	3/12	0/11	2/12	1/12	1/11	0/7
22 Ogden Avenue, Des Plaines River	2/12	0/11	2/11	2/11	2/12	1/12	1/11	0/5
23 Willow Springs Road, Des Plaines River	1/11	0/11	2/11	2/11	1/12	2/12	1/11	1/10
29 Stephen Street, Des Plaines River	1/12	0/11	3/12	1/11	1/12	2/12	1/11	0/11
91 Material Service Road, Des Plaines River	1/12	0/12	3/12	1/11	1/12	2/12	1/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	1/9	5/11	3/10	3/11	6/11	5/10	ND

ND = No Data.

TABLE AII-9: PHENOLS VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/10	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/10	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/11	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/7
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/5
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/11
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springingsuth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

TABLE AII-10: SULFATE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/10	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/11	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/9	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	4/9	4/9	9/9	4/10	6/8	4/8	5/7	1/3
97 170th Street, Thorn Creek	3/11	1/9	3/11	3/11	3/10	4/11	4/11	6/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	1/11	0/11	1/11	0/10	1/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/11	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/11	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/8	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-11: FATS, OILS, AND GREASES VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/10	0/11	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/10
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/11
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	1/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	1/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/50	0/50	0/51	0/53	0/52	0/52	2/49
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	1/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	1/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-12: TOTAL CYANIDE VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/10	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-13: WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/10	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/8	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-14: FLUORIDE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	2/10	6/10	8/11	9/11	7/11	4/9	6/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	1/9	1/10	0/11	2/11	3/11	2/10	2/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	1/12	0/12	0/12	0/11	1/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

TABLE AII-15: FECAL COLIFORM VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	9/10	11/11	10/11	3/4	4/5	3/4	8/8	3/3
103 Golf Road, West Fork North Branch Chicago River	6/10	8/11	9/10	8/11	8/12	8/10	7/10	8/8
31 Lake-Cook Road, Middle Fork North Branch	6/9	5/10	9/10	7/10	10/11	5/10	7/10	6/9
104 Glenview Road, North Branch Chicago River	2/9	6/12	7/12	7/11	7/12	9/12	11/12	2/3
32 Lake-Cook Road, Skokie River	4/9	6/10	6/10	10/10	5/12	7/11	9/10	7/9
105 Frontage Road, Skokie River	2/12	3/12	1/12	1/11	1/12	2/12	1/12	5/12
34 Dempster Street, North Branch Chicago River	6/8	6/12	9/11	7/11	11/12	9/11	11/12	10/11
96 Albany Avenue, North Branch Chicago River	7/11	7/12	8/12	6/11	10/12	9/11	9/11	10/10
35 Central Street, North Shore Channel	2/8	1/9	2/9	1/9	2/9	1/8	5/9	3/9
102 Oakton Street, North Shore Channel	6/11	4/11	8/11	8/12	9/12	7/12	9/12	6/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	3/9	2/10	2/11	0/11	2/10	1/9	2/10
100 Wells Street, Chicago River	3/12	2/11	7/12	2/11	3/12	3/12	2/12	4/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebley, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	2/11	0/11	2/12	1/12	0/12
55 130th Street, Calumet River	1/10	0/9	1/9	1/10	1/11	0/11	0/11	2/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	11/11	10/10	8/10	10/11	10/11	10/11	8/9	9/10
54 Joe Orr Road, Thorn Creek	7/9	9/9	8/9	8/10	9/9	8/8	5/7	2/3
97 170th Street, Thorn Creek	7/11	6/9	10/11	7/11	8/11	11/11	10/11	7/10
57 Ashland Avenue, Little Calumet River	7/10	4/9	9/10	10/11	6/11	10/11	9/10	10/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	1/10	2/11	2/11	4/11	5/12	5/11	1/11	4/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	1/1
89 Walnut Lane, West Branch DuPage River	7/12	7/12	8/12	8/12	7/12	10/12	7/11	9/11
64 Lake Street, West Branch DuPage River	4/6	7/12	8/12	9/12	10/12	10/12	7/12	9/12
79 Higgins Road, Salt Creek	2/8	1/8	1/9	6/10	3/9	3/9	1/11	4/9
80 Arlington Heights Road, Salt Creek	4/12	3/12	5/12	5/12	6/12	6/12	6/12	7/12
18 Devon Avenue, Salt Creek	6/10	5/11	7/12	7/12	10/12	9/12	9/12	12/12
24 Wolf Road, Salt Creek	5/10	7/12	4/12	6/11	9/12	9/12	5/11	9/12
109 Brookfield Avenue, Salt Creek	6/11	7/11	6/11	8/11	10/12	10/12	9/11	10/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	3/4	3/5	5/5	7/7	3/4	4/6	5/5
78 Wille Road, Higgins Creek	5/9	7/12	6/12	9/12	7/12	5/12	5/11	8/12
12 Lake-Cook Road, Buffalo Creek	1/7	2/9	3/11	4/9	3/9	3/7	2/7	5/8
13 Lake-Cook Road, Des Plaines River	3/11	2/12	5/12	6/12	4/12	6/12	2/11	6/12
17 Oakton Street, Des Plaines River	4/11	2/11	6/11	4/11	7/12	7/12	5/11	5/10
19 Belmont Avenue, Des Plaines River	4/11	4/12	5/12	5/11	8/12	7/11	5/11	8/12
20 Roosevelt Road, Des Plaines River	2/11	6/11	7/12	7/11	10/12	8/12	6/11	4/7
22 Ogden Avenue, Des Plaines River	5/12	3/11	5/11	4/11	11/12	10/12	8/11	4/5
23 Willow Springs Road, Des Plaines River	4/11	2/11	2/11	5/11	8/12	6/12	4/11	8/10
29 Stephen Street, Des Plaines River	2/12	1/11	3/12	3/11	6/12	5/12	3/11	7/11
91 Material Service Road, Des Plaines River	0/12	1/12	2/12	4/11	6/12	5/12	2/11	9/12
110 Springinsguth Road, West Branch DuPage River	7/8	8/9	9/11	9/10	11/11	9/11	8/10	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-16: GROSS BETA RADIOACTIVITY VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/10	0/9
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/9
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/9
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/6	0/9	0/10	0/11	0/11	0/10	0/10
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/10
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/8
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/8
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/1
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/7
57 Ashland Avenue, Little Calumet River	0/9	0/8	0/10	0/11	0/11	0/11	0/10	0/8
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/10	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/11	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/11	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/7	0/8	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-17: BENZENE VIOLATION HISTORY
2003 THROUGH 2010 (HUMAN HEALTH STANDARD)¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/5	0/6	0/5	0/2	0/2	0/8	0/7	0/4
103 Golf Road, West Fork North Branch Chicago River	0/5	0/6	0/4	0/5	0/4	0/4	0/3	0/3
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
104 Glenview Road, North Branch Chicago River	0/5	0/6	0/6	0/5	0/4	0/5	0/4	0/1
32 Lake-Cook Road, Skokie River	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
105 Frontage Road, Skokie River	0/6	0/6	0/6	0/5	0/4	0/5	0/4	0/4
34 Dempster Street, North Branch Chicago River	0/4	0/6	0/5	0/5	0/3	0/5	0/4	0/4
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/6	0/5	0/4	0/5	0/8	0/4
35 Central Street, North Shore Channel	0/3	0/4	0/4	0/4	0/3	0/4	0/3	0/3
102 Oakton Street, North Shore Channel	0/5	0/6	0/5	0/6	0/4	0/5	0/4	0/3
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/5	0/4	0/5	0/5	0/3	0/5	0/3	0/3
100 Wells Street, Chicago River	0/6	0/5	0/6	0/5	0/3	0/6	0/4	0/4
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/4	0/5	0/6	0/4	0/5	0/4	0/5
50 Burnham Avenue, Wolf Lake	0/6	0/5	0/6	0/6	0/4	0/6	0/4	0/4
55 130th Street, Calumet River	0/6	0/5	0/4	0/6	0/4	0/5	0/4	0/4
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/6	0/5	0/5	0/6	0/4	0/5	0/2	0/3
54 Joe Orr Road, Thorn Creek	0/6	0/4	0/4	0/5	0/3	0/4	0/3	NA
97 170th Street, Thorn Creek	0/6	0/5	0/6	0/6	0/4	0/6	0/3	0/3
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/5	0/6	0/4	0/5	0/2	0/4
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/5	0/6	0/4	0/5	0/4	0/3
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/1
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/6	0/4	0/6	0/4	0/4
64 Lake Street, West Branch DuPage River	0/3	0/6	0/6	0/6	0/4	0/6	0/4	0/4
79 Higgins Road, Salt Creek	0/4	0/4	0/4	0/5	0/3	0/4	0/4	0/3
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
18 Devon Avenue, Salt Creek	0/4	0/5	0/6	0/6	0/4	0/6	0/4	0/4
24 Wolf Road, Salt Creek	0/5	0/6	0/6	0/5	0/4	0/6	0/4	0/4
109 Brookfield Avenue, Salt Creek	0/6	0/5	0/5	0/5	0/4	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/1	0/2	0/2	0/4	0/1	0/3	0/3	0/3
78 Wille Road, Higgins Creek	0/4	0/6	0/6	0/6	0/4	0/5	0/3	0/4
12 Lake-Cook Road, Buffalo Creek	0/4	0/4	0/6	0/5	0/2	0/3	0/3	0/2
13 Lake-Cook Road, Des Plaines River	0/5	0/6	0/6	0/6	0/4	0/6	0/4	0/4
17 Oakton Street, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
20 Roosevelt Road, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/2
22 Ogden Avenue, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/1
23 Willow Springs Road, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
29 Stephen Street, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/3
91 Material Service Road, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
110 Springinsguth Road, West Branch DuPage River	0/4	0/5	0/5	0/4	0/4	0/5	0/4	NA

¹Human Health Standard in General Use Waters became effective in December 2002.
NA = Not Applicable.

TABLE AII-18: BENZENE VIOLATION HISTORY
2003 THROUGH 2010¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/5	0/6	0/5	0/2	0/2	0/8	0/7	0/4
103 Golf Road, West Fork North Branch Chicago River	0/5	0/6	0/4	0/5	0/4	0/4	0/3	0/3
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
104 Glenview Road, North Branch Chicago River	0/5	0/6	0/6	0/5	0/4	0/5	0/4	0/1
32 Lake-Cook Road, Skokie River	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
105 Frontage Road, Skokie River	0/6	0/6	0/6	0/5	0/4	0/5	0/4	0/4
34 Dempster Street, North Branch Chicago River	0/4	0/6	0/5	0/5	0/3	0/5	0/4	0/4
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/6	0/5	0/4	0/5	0/8	0/4
35 Central Street, North Shore Channel	0/3	0/4	0/4	0/4	0/3	0/4	0/3	0/3
102 Oakton Street, North Shore Channel	0/5	0/6	0/5	0/6	0/4	0/5	0/4	0/3
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/5	0/4	0/5	0/5	0/3	0/5	0/3	0/3
100 Wells Street, Chicago River	0/6	0/5	0/6	0/5	0/3	0/6	0/4	0/4
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/4	0/5	0/6	0/4	0/5	0/4	0/5
50 Burnham Avenue, Wolf Lake	0/6	0/5	0/6	0/6	0/4	0/6	0/4	0/4
55 130th Street, Calumet River	0/6	0/5	0/4	0/6	0/4	0/5	0/4	0/4
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/6	0/5	0/5	0/6	0/4	0/5	0/2	0/3
54 Joe Orr Road, Thorn Creek	0/6	0/4	0/4	0/5	0/3	0/4	0/3	NA
97 170th Street, Thorn Creek	0/6	0/5	0/6	0/6	0/4	0/6	0/3	0/3
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/5	0/6	0/4	0/5	0/2	0/4
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/5	0/6	0/4	0/5	0/4	0/3
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/1
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/6	0/4	0/6	0/4	0/4
64 Lake Street, West Branch DuPage River	0/3	0/6	0/6	0/6	0/4	0/6	0/4	0/4
79 Higgins Road, Salt Creek	0/4	0/4	0/4	0/5	0/3	0/4	0/4	0/3
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
18 Devon Avenue, Salt Creek	0/4	0/5	0/6	0/6	0/4	0/6	0/4	0/4
24 Wolf Road, Salt Creek	0/5	0/6	0/6	0/5	0/4	0/6	0/4	0/4
109 Brookfield Avenue, Salt Creek	0/6	0/5	0/5	0/5	0/4	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/1	0/2	0/2	0/4	0/1	0/3	0/3	0/3
78 Wille Road, Higgins Creek	0/4	0/6	0/6	0/6	0/4	0/5	0/3	0/4
12 Lake-Cook Road, Buffalo Creek	0/4	0/4	0/6	0/5	0/2	0/3	0/3	0/2
13 Lake-Cook Road, Des Plaines River	0/5	0/6	0/6	0/6	0/4	0/6	0/4	0/4
17 Oakton Street, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
20 Roosevelt Road, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/2
22 Ogden Avenue, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/1
23 Willow Springs Road, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
29 Stephen Street, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/3
91 Material Service Road, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
110 Springinguth Road, West Branch DuPage River	0/4	0/5	0/5	0/4	0/4	0/5	0/4	NA

¹Based on General Use Water quality standards.
NA = Not Applicable.

TABLE AII-19: ETHYLBENZENE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/5	0/6	0/5	0/2	0/2	0/8	0/7	0/4
103 Golf Road, West Fork North Branch Chicago River	0/5	0/6	0/4	0/5	0/4	0/4	0/3	0/3
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
104 Glenview Road, North Branch Chicago River	0/5	0/6	0/6	0/5	0/4	0/5	0/4	0/1
32 Lake-Cook Road, Skokie River	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
105 Frontage Road, Skokie River	0/6	0/6	0/6	0/5	0/4	0/5	0/4	0/4
34 Dempster Street, North Branch Chicago River	0/4	0/6	0/5	0/5	0/3	0/5	0/4	0/4
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/6	0/5	0/4	0/5	0/8	0/4
35 Central Street, North Shore Channel	0/3	0/4	0/4	0/4	0/3	0/4	0/3	0/3
102 Oakton Street, North Shore Channel	0/5	0/6	0/5	0/6	0/4	0/5	0/4	0/3
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/5	0/4	0/5	0/5	0/3	0/5	0/3	0/3
100 Wells Street, Chicago River	0/6	0/5	0/6	0/5	0/3	0/6	0/4	0/4
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/4	0/5	0/6	0/4	0/5	0/4	0/5
50 Burnham Avenue, Wolf Lake	0/6	0/5	0/6	0/6	0/4	0/6	0/4	0/4
55 130th Street, Calumet River	0/6	0/5	0/4	0/6	0/4	0/5	0/4	0/4
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/6	0/5	0/5	0/6	0/4	0/5	0/2	0/3
54 Joe Orr Road, Thorn Creek	0/6	0/4	0/4	0/5	0/3	0/4	0/3	ND
97 170th Street, Thorn Creek	0/6	0/5	0/6	0/6	0/4	0/6	0/3	0/3
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/5	0/6	0/4	0/5	0/2	0/4
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/5	0/6	0/4	0/5	0/4	0/3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/6	0/4	0/6	0/4	0/4
64 Lake Street, West Branch DuPage River	0/3	0/6	0/6	0/6	0/4	0/6	0/4	0/4
79 Higgins Road, Salt Creek	0/4	0/4	0/4	0/5	0/3	0/4	0/4	0/3
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
18 Devon Avenue, Salt Creek	0/4	0/5	0/6	0/6	0/4	0/6	0/4	0/4
24 Wolf Road, Salt Creek	0/5	0/6	0/6	0/5	0/4	0/6	0/4	0/4
109 Brookfield Avenue, Salt Creek	0/6	0/5	0/5	0/5	0/4	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/2	0/2	0/4	0/1	0/3	0/3	0/3
78 Wille Road, Higgins Creek	0/4	0/6	0/6	0/6	0/4	0/5	0/3	0/4
12 Lake-Cook Road, Buffalo Creek	0/4	0/4	0/6	0/5	0/2	0/3	0/3	0/2
13 Lake-Cook Road, Des Plaines River	0/5	0/6	0/6	0/6	0/4	0/6	0/4	0/4
17 Oakton Street, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
20 Roosevelt Road, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/2
22 Ogden Avenue, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/1
23 Willow Springs Road, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
29 Stephen Street, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/3
91 Material Service Road, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
110 Springinsguth Road, West Branch DuPage River	0/4	0/5	0/5	0/4	0/4	0/5	0/4	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-20: TOLUENE VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/5	0/6	0/5	0/2	0/2	0/8	0/7	0/4
103 Golf Road, West Fork North Branch Chicago River	0/5	0/6	0/4	0/5	0/4	0/4	0/3	0/3
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
104 Glenview Road, North Branch Chicago River	0/5	0/6	0/6	0/5	0/4	0/5	0/4	0/1
32 Lake-Cook Road, Skokie River	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
105 Frontage Road, Skokie River	0/6	0/6	0/6	0/5	0/4	0/5	0/4	0/4
34 Dempster Street, North Branch Chicago River	0/4	0/6	0/5	0/5	0/3	0/5	0/4	0/4
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/6	0/5	0/4	0/5	0/8	0/4
35 Central Street, North Shore Channel	0/3	0/4	0/4	0/4	0/3	0/4	0/3	0/3
102 Oakton Street, North Shore Channel	0/5	0/6	0/5	0/6	0/4	0/5	0/4	0/3
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/5	0/4	0/5	0/5	0/3	0/5	0/3	0/3
100 Wells Street, Chicago River	0/6	0/5	0/6	0/5	0/3	0/6	0/4	0/4
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/4	0/5	0/6	0/4	0/5	0/4	0/5
50 Burnham Avenue, Wolf Lake	0/6	0/5	0/6	0/6	0/4	0/6	0/4	0/4
55 130th Street, Calumet River	0/6	0/5	0/4	0/6	0/4	0/5	0/4	0/4
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/6	0/5	0/5	0/6	0/4	0/5	0/2	0/3
54 Joe Orr Road, Thorn Creek	0/6	0/4	0/4	0/5	0/3	0/4	0/3	ND
97 170th Street, Thorn Creek	0/6	0/5	0/6	0/6	0/4	0/6	0/3	0/3
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/5	0/6	0/4	0/5	0/2	0/4
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/5	0/6	0/4	0/5	0/4	0/3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/6	0/4	0/6	0/4	0/4
64 Lake Street, West Branch DuPage River	0/3	0/6	0/6	0/6	0/4	0/6	0/4	0/4
79 Higgins Road, Salt Creek	0/4	0/4	0/4	0/5	0/3	0/4	0/4	0/3
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
18 Devon Avenue, Salt Creek	0/4	0/5	0/6	0/6	0/4	0/6	0/4	0/4
24 Wolf Road, Salt Creek	0/5	0/6	0/6	0/5	0/4	0/6	0/4	0/4
109 Brookfield Avenue, Salt Creek	0/6	0/5	0/5	0/5	0/4	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/2	0/2	0/4	0/1	0/3	0/3	0/3
78 Wille Road, Higgins Creek	0/4	0/6	0/6	0/6	0/4	0/5	0/3	0/4
12 Lake-Cook Road, Buffalo Creek	0/4	0/4	0/6	0/5	0/2	0/3	0/3	0/2
13 Lake-Cook Road, Des Plaines River	0/5	0/6	0/6	0/6	0/4	0/6	0/4	0/4
17 Oakton Street, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
20 Roosevelt Road, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/2
22 Ogden Avenue, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/1
23 Willow Springs Road, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
29 Stephen Street, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/3
91 Material Service Road, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
110 Springinguth Road, West Branch DuPage River	0/4	0/5	0/5	0/4	0/4	0/5	0/4	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-21: XYLENE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/5	0/6	0/5	0/2	0/2	0/8	0/7	0/4
103 Golf Road, West Fork North Branch Chicago River	0/5	0/6	0/4	0/5	0/4	0/4	0/3	0/3
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
104 Glenview Road, North Branch Chicago River	0/5	0/6	0/6	0/5	0/4	0/5	0/4	0/1
32 Lake-Cook Road, Skokie River	0/4	0/5	0/4	0/4	0/4	0/5	0/3	0/3
105 Frontage Road, Skokie River	0/6	0/6	0/6	0/5	0/4	0/5	0/4	0/4
34 Dempster Street, North Branch Chicago River	0/4	0/6	0/5	0/5	0/3	0/5	0/4	0/4
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/6	0/5	0/4	0/5	0/8	0/4
35 Central Street, North Shore Channel	0/3	0/4	0/4	0/4	0/3	0/4	0/3	0/3
102 Oakton Street, North Shore Channel	0/5	0/6	0/5	0/6	0/4	0/5	0/4	0/3
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/5	0/4	0/5	0/5	0/3	0/5	0/3	0/3
100 Wells Street, Chicago River	0/6	0/5	0/6	0/5	0/3	0/6	0/4	0/4
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/4	0/5	0/6	0/4	0/5	0/4	0/5
50 Burnham Avenue, Wolf Lake	0/6	0/5	0/6	0/6	0/4	0/6	0/4	0/4
55 130th Street, Calumet River	0/6	0/5	0/4	0/6	0/4	0/5	0/4	0/4
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/6	0/5	0/5	0/6	0/4	0/5	0/2	0/3
54 Joe Orr Road, Thorn Creek	0/6	0/4	0/4	0/5	0/3	0/4	0/3	ND
97 170th Street, Thorn Creek	0/6	0/5	0/6	0/6	0/4	0/6	0/3	0/3
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/5	0/6	0/4	0/5	0/2	0/4
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/5	0/6	0/4	0/5	0/4	0/3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/6	0/4	0/6	0/4	0/4
64 Lake Street, West Branch DuPage River	0/3	0/6	0/6	0/6	0/4	0/6	0/4	0/4
79 Higgins Road, Salt Creek	0/4	0/4	0/4	0/5	0/3	0/4	0/4	0/3
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
18 Devon Avenue, Salt Creek	0/4	0/5	0/6	0/6	0/4	0/6	0/4	0/4
24 Wolf Road, Salt Creek	0/5	0/6	0/6	0/5	0/4	0/6	0/4	0/4
109 Brookfield Avenue, Salt Creek	0/6	0/5	0/5	0/5	0/4	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/2	0/2	0/4	0/1	0/3	0/3	0/3
78 Wille Road, Higgins Creek	0/4	0/6	0/6	0/6	0/4	0/5	0/3	0/4
12 Lake-Cook Road, Buffalo Creek	0/4	0/4	0/6	0/5	0/2	0/3	0/3	0/2
13 Lake-Cook Road, Des Plaines River	0/5	0/6	0/6	0/6	0/4	0/6	0/4	0/4
17 Oakton Street, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
20 Roosevelt Road, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/2
22 Ogden Avenue, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/1
23 Willow Springs Road, Des Plaines River	0/6	0/5	0/5	0/5	0/4	0/6	0/4	0/3
29 Stephen Street, Des Plaines River	0/6	0/5	0/6	0/5	0/4	0/6	0/4	0/3
91 Material Service Road, Des Plaines River	0/6	0/6	0/6	0/5	0/4	0/6	0/4	0/4
110 Springinguth Road, West Branch DuPage River	0/4	0/5	0/5	0/4	0/4	0/5	0/4	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-22: TOTAL SILVER VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/11	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

**TABLE AII-23: TOTAL ARSENIC VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversy Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

TABLE AII-24: TOTAL BARIUM VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

**TABLE AII-25: TOTAL BORON VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/11
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/7
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/9
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/10
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-26: TOTAL CADMIUM VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Treble, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-27: TOTAL COPPER VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-28: TOTAL HEXAVALENT CHROMIUM VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/11	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/50	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/8	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	1/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	1/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	1/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	1/12	0/11	0/11	0/11	0/12	1/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

TABLE AII-29: TOTAL IRON VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	1/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	1/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	2/51	2/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/7	0/5	1/10	2/10	0/11	2/10	1/9	3/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	1/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	1/10	0/11	0/12	0/11	0/11	0/12	0/12	1/12
59 Cicero Avenue, Calumet-Sag Channel	1/10	0/10	0/11	0/11	1/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	1/10	0/10	0/11	0/11	0/11	0/10	1/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-30: TOTAL LEAD VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	1/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	1/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	1/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	1/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	1/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

**TABLE AII-31: TOTAL NICKEL VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

TABLE AII-32: TOTAL MANGANESE VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/8	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/11	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	1/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/9	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/9	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinguth Road, West Branch DuPage River	0/7	0/9	0/11	0/10	0/11	1/11	0/10	ND

ND = No Data.

TABLE AII-33: TOTAL MERCURY VIOLATION HISTORY
2003 THROUGH 2010 (HUMAN HEALTH STANDARD)¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	1/4	0/5	0/4	4/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	3/12	5/10	4/10	2/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	2/11	2/10	3/10	2/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	1/11	4/12	6/12	5/12	1/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	1/10	4/12	3/11	5/10	2/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	1/11	2/12	5/12	5/12	4/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	2/11	2/12	4/11	6/12	2/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	3/11	1/12	4/11	2/11	2/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	1/9	1/8	0/9	1/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	2/12	2/12	3/12	6/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	2/11	1/11	0/10	4/9	3/10
100 Wells Street, Chicago River	0/12	0/11	0/12	1/11	3/12	3/12	3/12	3/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	1/11	0/11	2/10	2/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	2/11	2/11	1/12	3/12	5/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	2/11	3/11	2/11	2/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	2/11	5/11	2/9	3/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	2/9	2/8	0/7	1/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	1/11	2/11	5/11	3/11	3/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	1/11	2/11	4/11	3/10	4/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	2/11	1/12	3/11	4/11	2/10
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	1/12	1/12	2/12	4/11	1/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	3/12	2/12	2/12	3/12	4/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	2/10	0/9	1/9	1/11	4/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	2/12	2/12	2/12	3/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	1/12	3/12	2/12	4/12	2/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	2/11	2/12	2/12	2/11	3/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	1/11	2/12	0/11	7/11	2/10
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	1/5	0/7	0/4	2/6	2/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	1/12	2/12	2/12	3/11	3/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	1/9	1/9	1/7	2/7	3/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	1/12	3/12	1/12	3/11	3/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	2/11	2/12	2/12	2/11	4/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	2/12	0/12	4/11	3/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	1/11	2/12	2/12	3/11	3/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	1/11	3/12	2/12	2/11	1/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	1/11	2/12	2/12	1/11	3/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	2/11	2/12	2/12	2/11	2/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	1/11	2/12	2/12	2/11	2/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	1/10	1/11	3/11	3/10	NA

¹Human Health Standard in General Use Waters became effective in December 2002.

NA = Not Applicable.

TABLE AII-34: TOTAL MERCURY VIOLATION HISTORY
2003 THROUGH 2010¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebley, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	1/10	0/9	0/9
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

¹ Based upon Secondary Contact Water quality standards which became effective in December 2002.
NA = Not Applicable.

TABLE AII-35: TOTAL ZINC VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	NA
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable.
ND = No Data.

TABLE AII-36: TOTAL SELENIUM VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/10	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/10	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/9	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/9	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/8	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/12	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/10	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/9	0/12	0/12	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/12	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/10	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/7	0/5	0/10	0/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/10	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/11	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/10	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/10	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/11	0/10	0/10	0/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

**TABLE AII-37: SOLUBLE ARSENIC VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-38: SOLUBLE CADMIUM VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-39: SOLUBLE COPPER VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	1/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	1/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-40: SOLUBLE CHROMIUM VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-41: SOLUBLE IRON VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	0/10	0/10	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/11	0/12	0/12	0/12	0/12	0/13	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/11
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/11	0/12	0/12	0/10	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/9	0/11	0/12	0/11	0/7	0/11	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/13	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/8	0/11	0/11	0/12	0/13	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/10	0/12	0/11	0/13	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/10	0/12	0/11	0/13	0/11	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/47	0/51	0/51	0/51	0/53	0/52	0/52	0/52
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/6	0/5	0/10	1/10	0/11	0/10	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/9	0/8	0/9	0/9	0/11	0/9	0/9	0/11
76 Halsted Street, Little Calumet River	0/9	0/11	0/12	0/11	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	0/9	0/11	0/12	0/11	0/11	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/9	0/10	0/11	0/11	0/11	0/12	0/12	0/11
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/10	1/11	0/11	0/11	0/10	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

ND = No Data.

**TABLE AII-42: SOLUBLE LEAD VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/8	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-43: SOLUBLE NICKEL VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/11	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-44: SOLUBLE MERCURY VIOLATION HISTORY
2003 THROUGH 2010

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	0/1	0/3	0/2
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	0/3	0/2
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0/5	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	0/2	0/4	0/2
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	0/2	0/5	0/4
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	0/1	0/4	0/2
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0/1	0/2	0/2
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	0/1	ND	0/1
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	0/1	0/5	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	0/3	0/4
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	0/1	0/3	0/3
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	0/1	0/1
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	0/2	0/5
55 130th Street, Calumet River	ND	ND	ND	ND	0/1	ND	0/2	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	0/1	0/1	ND	0/2
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	0/1
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	0/3
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	0/1	0/3	0/2	0/3
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/1	ND	0/2	0/4	0/1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/3	0/1
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/3	0/4
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	0/1	0/3
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	0/2	0/2	0/2
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	0/2	0/3	0/1
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	0/2	0/3
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	0/5	0/1
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	0/2	0/1
78 Wille Road, Higgins Creek	ND	ND	ND	ND	0/1	0/1	0/2	0/3
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	0/1	0/1	0/2
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	0/1	0/3	0/2
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	0/1	0/1	0/1	0/4
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0/3	0/4
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0/3	0/2
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0/2	0/1
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	0/1	0/1	0/2
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	0/1	ND	0/2	0/2
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	0/1	0/1	0/2
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	0/1	0/3	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-45: SOLUBLE ZINC VIOLATION HISTORY
2003 THROUGH 2010**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	10	09	08	07	06	05	04	03
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/9	0/11	0/11	0/4	0/5	0/4	0/8	0/3
103 Golf Road, West Fork North Branch Chicago River	0/9	0/11	0/10	0/11	0/12	0/10	0/10	0/8
31 Lake-Cook Road, Middle Fork North Branch	0/8	0/10	0/10	0/10	0/11	0/10	0/10	0/9
104 Glenview Road, North Branch Chicago River	0/8	0/12	0/12	0/11	0/12	0/12	0/12	0/3
32 Lake-Cook Road, Skokie River	0/8	0/10	0/10	0/10	0/12	0/11	0/10	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/7	0/12	0/11	0/11	0/12	0/11	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/10	0/12	0/12	0/11	0/12	0/11	0/11	0/10
35 Central Street, North Shore Channel	0/7	0/9	0/9	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/10	0/11	0/11	0/12	0/12	0/12	0/12	0/10
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/11	0/10	0/9	0/10
100 Wells Street, Chicago River	0/11	0/11	0/12	0/11	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/7	0/9	0/10	0/11	0/11	0/10	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/10	0/12	0/11	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/9	0/10	0/11	0/11	0/11	0/10
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/10	0/11	0/11	0/11	0/9	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/9	0/10	0/9	0/8	0/7	0/3
97 170th Street, Thorn Creek	0/10	0/9	0/11	0/11	0/11	0/11	0/11	0/10
57 Ashland Avenue, Little Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/10
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/11	0/11	0/11	0/12	0/11	0/11	0/10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/1
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/6	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/8	0/9	0/10	0/9	0/9	0/11	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
18 Devon Avenue, Salt Creek	0/10	0/11	0/12	0/12	0/12	0/12	0/12	0/12
24 Wolf Road, Salt Creek	0/10	0/12	0/12	0/11	0/12	0/12	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/1	0/4	0/5	0/5	0/7	0/4	0/6	0/5
78 Wille Road, Higgins Creek	0/9	0/12	0/12	0/12	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/9	0/11	0/9	0/9	0/7	0/7	0/8
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/11	0/12	0/12	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/11	0/7
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/5
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/11	0/11	0/12	0/12	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/12	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/9	0/11	0/10	0/11	0/11	0/10	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-46: BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	4.00	2.00	2.89	3.50	3.30	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	1.00	2.00	2.56	1.56	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	8.00	3.33	3.30	3.45	2.30	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	11.00	6.42	7.58	6.58	6.90	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	8.00	5.92	5.42	6.58	4.90	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	10.00	5.67	5.25	4.92	4.10	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	6.00	3.25	3.25	3.00	3.80	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	2.00	3.17	2.67	1.83	4.00	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	1.33	2.70	2.08	0.80	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	3.00	2.17	3.25	2.33	1.57	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	4.00	2.92	3.91	2.58	2.50	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	3.00	2.92	4.25	2.92	1.89	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	6.08	3.73	4.83	4.80	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.00	2.42	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	3.75	4.60	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.00	3.75	4.67	2.58	2.20	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	5.00	3.17	3.33	2.25	2.90	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.00	2.83	2.75	2.58	2.90	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.00	1.83	2.50	1.25	1.67	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.60
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.14	1.50	1.65	1.74	2.82	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	1.10	0.92	0.92	0.60	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	0.27	1.90	1.67	0.60	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.50	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	1.78	2.36	2.42	2.75	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	4.00	1.75	2.64	1.58	2.90	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.50	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	2.40	4.50	2.17	3.33	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	3.00	0.83	3.00	1.25	2.50	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	3.00	1.55	2.00	2.50	2.30	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	1.89	2.00	1.58	2.30	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-47: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	3.00	1.86	1.78	2.36	2.30	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	1.00	1.67	1.11	0.22	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	0.00	2.08	1.44	1.91	2.00	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	4.00	2.50	2.25	2.00	2.20	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	2.00	1.92	1.75	2.33	1.30	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	4.00	1.67	2.50	2.08	1.40	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	2.00	1.33	1.17	1.33	1.20	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	1.50	1.50	0.92	0.50	0.50	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	1.11	2.80	1.50	0.50	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	3.00	1.58	1.67	1.64	0.00	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	2.00	1.42	2.00	1.42	1.10	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.00	1.25	2.58	1.50	0.89	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	3.08	1.58	2.25	3.50	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	2.00	1.42	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	1.75	1.40	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.00	1.67	0.83	0.75	1.30	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.00	1.50	1.33	0.50	1.30	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	2.00	0.50	1.25	0.58	1.10	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.00	0.58	1.17	0.50	1.00	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.71	0.61	0.52	0.40	0.00	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	0.50	1.33	0.83	0.60	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	0.27	1.40	1.25	0.50	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.50	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	0.00	1.36	1.92	1.38	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	4.00	1.08	1.00	0.67	1.40	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	1.40	2.10	1.58	1.78	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	3.00	1.08	1.50	0.67	1.10	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	4.00	0.83	1.27	0.92	1.50	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	0.60	1.18	0.83	0.70	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-48: DISSOLVED OXYGEN MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.75	10.50
106 Dundee Road, West Fork North Branch Chicago River	8.03	7.78	6.93	8.75	8.10	10.30	8.02	7.00	9.12	9.54	ND
103 Golf Road, West Fork North Branch Chicago River	7.70	7.27	7.21	7.31	8.58	7.38	7.64	6.86	7.10	6.98	ND
31 Lake-Cook Road, Middle Fork North Branch	6.18	7.88	6.55	6.16	7.15	5.42	6.46	6.22	6.55	6.91	6.99
104 Glenview Road, North Branch Chicago River	8.20	7.53	7.39	6.90	7.98	8.12	8.03	7.47	8.08	7.36	ND
32 Lake-Cook Road, Skokie River	7.23	7.75	7.35	7.21	7.75	7.75	7.73	6.67	7.14	7.65	7.25
105 Frontage Road, Skokie River	7.63	7.77	7.61	7.76	9.27	8.79	8.33	7.95	8.15	7.49	ND
34 Dempster Street, North Branch Chicago River	8.25	7.88	7.01	6.52	8.23	7.16	8.21	7.45	7.75	7.29	7.50
96 Albany Avenue, North Branch Chicago River	8.47	8.64	8.22	8.19	9.18	8.63	9.12	7.77	7.71	7.42	6.80
35 Central Street, North Shore Channel	8.39	9.23	7.30	8.23	8.63	7.50	7.53	8.08	7.34	8.03	7.48
102 Oakton Street, North Shore Channel	7.02	8.19	7.57	7.76	8.73	7.95	7.26	6.32	6.58	5.80	ND
36 Touhy Avenue, North Shore Channel	7.15	8.29	7.83	7.65	7.93	7.98	8.10	7.54	6.90	7.39	7.24
101 Foster Avenue, North Shore Channel	7.18	7.67	7.21	7.13	7.20	7.30	7.58	7.42	6.53	6.87	ND
37 Wilson Avenue, North Branch Chicago River	7.51	8.43	7.43	7.58	7.83	7.03	7.55	7.14	6.74	7.13	6.68
73 Diversey Parkway, North Branch Chicago River	6.91	7.91	6.94	6.75	7.25	6.44	6.71	6.25	5.74	6.18	5.84
46 Grand Avenue, North Branch Chicago River	6.57	7.25	6.73	6.67	6.85	6.30	6.47	6.12	5.86	6.00	6.13
74 Lake Shore Drive, Chicago River	9.05	9.27	8.76	9.00	9.19	9.08	8.50	7.62	9.03	7.99	8.04
100 Wells Street, Chicago River	8.11	8.57	8.03	8.39	8.68	8.96	8.56	7.54	7.83	7.27	ND
39 Madison Street, South Branch Chicago River	7.36	7.27	7.53	7.45	7.79	7.85	6.86	5.73	6.38	6.32	6.67
108 Loomis Street, South Branch Chicago River	7.51	6.84	6.89	7.21	7.81	7.78	7.23	5.97	5.86	5.79	ND
99 Archer Avenue, South Fork South Branch Chicago River	5.60	4.76	5.33	6.19	6.00	6.65	5.63	5.29	3.91	2.62	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.02	6.97	6.49	7.25	7.44	7.59	6.71	5.68	ND	ND	5.43
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	5.60	5.34	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.02	6.43	5.32	6.22	6.04	6.11	5.77	5.18	5.18	5.28	4.98
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.56	6.68	7.13	6.59	7.30	7.29	6.92	6.81	6.95	6.60	6.52
42 Route 83, Chicago Sanitary & Ship Canal	5.93	6.31	6.23	6.00	5.46	5.90	6.06	5.85	6.09	5.46	5.46
48 Stephen Street, Chicago Sanitary & Ship Canal	6.48	7.00	6.78	5.98	5.43	6.25	6.25	5.78	5.73	5.38	5.40
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.69	6.28	6.19	6.07	5.68	5.86	5.67	5.57	5.32	5.34	5.65
Calumet River System											
49 Ewing Avenue, Calumet River	8.90	9.07	8.84	9.66	9.50	9.99	9.24	9.73	9.65	8.99	9.44
50 Burnham Avenue, Wolf Lake	8.12	8.45	8.58	8.79	9.63	9.25	9.79	8.91	9.77	8.70	9.33
55 130th Street, Calumet River	9.16	8.43	8.22	8.91	8.45	9.26	9.13	8.27	9.17	8.41	8.43
86 Burnham Avenue, Grand Calumet River	4.89	4.66	6.51	4.21	6.20	4.80	4.93	3.94	6.22	4.19	4.43
56 Indiana Avenue, Little Calumet River	8.71	8.45	7.89	7.49	9.61	8.83	7.71	8.40	8.69	8.59	8.20
76 Halsted Street, Little Calumet River	6.89	7.14	6.30	6.35	6.27	6.98	7.13	7.00	6.92	6.69	6.60
52 Wentworth Avenue, Little Calumet River	7.08	7.10	6.22	6.43	7.49	6.45	6.40	6.53	6.47	6.20	6.52
54 Joe Orr Road, Thorn Creek	7.72	8.04	8.21	8.19	7.72	7.65	8.57	8.40	8.54	8.27	8.28
97 170th Street, Thorn Creek	7.87	7.24	7.01	7.34	7.15	7.85	8.37	7.80	8.37	7.29	ND
57 Ashland Avenue, Little Calumet River	7.46	6.79	6.54	6.50	7.27	6.35	6.99	5.42	7.29	5.75	6.28
58 Ashland Avenue, Calumet-Sag Channel	7.44	7.52	6.63	6.54	7.15	7.23	7.25	6.98	6.48	6.41	6.37
59 Cicero Avenue, Calumet-Sag Channel	6.20	7.02	6.92	6.79	6.24	6.56	6.80	7.23	6.85	5.93	6.35
43 Route 83, Calumet-Sag Channel	6.49	6.72	7.22	6.51	6.70	7.38	6.39	7.88	6.93	6.04	6.17
Des Plaines River System											
90 Route 19, Poplar Creek	8.80	8.58	8.61	9.64	9.78	8.47	10.16	9.16	8.94	9.52	7.91
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	8.90	ND	8.18	7.50
89 Walnut Lane, West Branch DuPage River	8.53	8.75	8.35	8.68	8.28	7.78	8.03	7.48	7.64	6.82	7.01
64 Lake Street, West Branch DuPage River	8.42	9.03	8.65	8.91	8.68	8.61	7.41	8.05	8.38	8.25	7.79
79 Higgins Road, Salt Creek	6.88	7.41	7.18	7.80	8.78	6.24	8.97	7.37	7.59	8.88	7.09
80 Arlington Heights Road, Salt Creek	8.43	8.11	7.83	8.78	8.77	8.48	8.01	7.79	8.07	8.29	7.79
18 Devon Avenue, Salt Creek	8.25	8.09	8.48	8.94	8.89	9.04	8.33	7.59	7.96	8.24	7.78
24 Wolf Road, Salt Creek	7.41	8.82	8.27	8.23	8.51	8.61	8.19	8.64	7.79	8.50	7.74
109 Brookfield Avenue, Salt Creek	7.37	8.39	7.35	7.59	7.58	7.81	8.02	8.13	5.98	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	10.90	7.98	6.72
77 Elmhurst Road, Higgins Creek	8.70	8.55	8.82	8.66	8.43	9.15	8.80	7.48	8.22	8.42	7.71
78 Wille Road, Higgins Creek	8.98	8.81	8.46	8.76	9.04	8.88	9.15	8.16	8.55	8.93	8.43
12 Lake-Cook Road, Buffalo Creek	7.31	9.26	8.84	8.83	8.69	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	8.11	8.43	8.00	8.55	8.76	8.59	8.83	8.30	9.35	9.02	8.04
17 Oakton Street, Des Plaines River	8.58	9.38	8.34	8.39	8.35	8.39	8.83	7.57	8.17	9.00	7.66
19 Belmont Avenue, Des Plaines River	8.41	8.34	7.50	7.67	8.43	7.55	7.91	7.64	7.74	8.59	6.41
20 Roosevelt Road, Des Plaines River	7.91	8.60	7.55	7.62	8.16	7.57	8.13	7.16	7.96	8.31	6.44
22 Ogden Avenue, Des Plaines River	7.89	9.14	8.24	8.94	9.00	9.13	9.27	12.06	9.34	9.20	7.72
23 Willow Springs Road, Des Plaines River	8.07	8.80	8.00	8.65	8.24	9.08	9.19	8.66	8.99	9.44	7.65
29 Stephen Street, Des Plaines River	8.37	9.97	8.94	8.56	8.90	9.91	9.62	9.95	9.53	9.98	7.81
91 Material Service Road, Des Plaines River	9.04	9.33	8.78	9.38	9.68	10.31	10.65	9.65	10.31	8.71	8.42
110 Springinguth Road, West Branch DuPage River	5.34	6.23	6.16	6.17	6.23	6.80	6.31	ND	ND	ND	ND

ND = No Data.

TABLE AII-49: TEMPERATURE MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (°C)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	1.1
106 Dundee Road, West Fork North Branch Chicago River	13.1	11.3	13.6	9.8	13.2	12.4	12.1	19.4	10.8	16.9	ND
103 Golf Road, West Fork North Branch Chicago River	15.7	13.4	13.8	15.4	13.4	15.2	16.7	15.2	12.5	15.8	ND
31 Lake-Cook Road, Middle Fork North Branch	14.8	12.4	12.7	15.7	12.6	16.1	15.3	16.7	11.7	14.2	15.5
104 Glenview Road, North Branch Chicago River	12.7	12.5	11.5	14.8	12.9	15.1	13.9	16.5	10.4	15.9	ND
32 Lake-Cook Road, Skokie River	15.2	13.4	12.3	16.2	12.9	17.1	15.2	16.1	11.9	14.4	15.5
105 Frontage Road, Skokie River	13.5	12.3	12.3	14.9	13.1	14.4	13.9	15.1	12.7	16.7	ND
34 Dempster Street, North Branch Chicago River	12.7	11.9	13.5	14.7	12.8	16.7	15.3	14.3	12.3	14.2	15.3
96 Albany Avenue, North Branch Chicago River	14.5	12.1	12.6	15.1	13.0	15.5	14.3	15.2	12.9	15.3	16.0
35 Central Street, North Shore Channel	16.9	14.9	15.9	15.5	18.6	17.9	17.4	17.9	14.3	15.3	18.0
102 Oakton Street, North Shore Channel	15.4	13.2	14.7	14.3	15.0	16.1	12.8	16.2	14.9	16.8	ND
36 Touhy Avenue, North Shore Channel	16.2	13.9	14.8	17.0	15.6	16.4	14.7	17.0	16.5	16.9	15.8
101 Foster Avenue, North Shore Channel	15.3	14.8	14.7	16.7	15.8	16.8	15.8	17.9	15.3	17.8	ND
37 Wilson Avenue, North Branch Chicago River	15.7	13.7	14.2	15.7	15.2	17.5	17.3	17.1	15.1	15.1	14.9
73 Diversey Parkway, North Branch Chicago River	15.0	13.8	13.5	15.5	15.0	17.4	16.9	16.0	15.2	15.3	15.4
46 Grand Avenue, North Branch Chicago River	14.6	13.4	13.6	16.5	14.9	17.5	16.7	14.5	15.3	15.6	14.4
74 Lake Shore Drive, Chicago River	13.5	13.7	14.6	14.5	14.0	15.2	17.5	15.5	12.8	14.0	13.8
100 Wells Street, Chicago River	13.9	13.7	12.8	14.5	13.9	13.4	14.4	14.1	14.0	16.4	ND
39 Madison Street, South Branch Chicago River	13.9	13.7	12.4	14.1	14.0	13.3	14.3	12.7	14.1	15.0	14.7
108 Loomis Street, South Branch Chicago River	15.7	16.4	15.3	16.3	16.7	15.5	18.4	17.1	17.8	20.0	ND
99 Archer Avenue, South Fork South Branch Chicago River	12.8	15.4	14.6	16.6	18.9	15.8	16.5	16.1	17.2	18.5	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	16.1	15.4	14.4	16.3	16.6	15.5	16.9	16.8	ND	ND	18.3
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	17.1	17.8	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.3	17.3	17.9	20.2	17.7	20.0	18.1	20.8	18.8	18.1	18.7
41 Harlem Avenue, Chicago Sanitary & Ship Canal	17.2	16.4	16.8	16.3	16.4	17.3	17.6	17.5	16.9	17.1	17.0
42 Route 83, Chicago Sanitary & Ship Canal	16.1	16.5	17.7	18.7	18.4	17.7	15.3	17.5	16.6	16.9	19.1
48 Stephen Street, Chicago Sanitary & Ship Canal	16.5	15.8	16.8	17.4	16.3	16.1	15.8	15.6	16.4	16.9	18.3
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	18.0	17.4	17.9	19.8	19.4	19.3	18.1	17.9	18.7	18.3	19.1
Calumet River System											
49 Ewing Avenue, Calumet River	17.3	14.0	15.0	16.3	14.0	16.2	14.2	12.4	12.7	13.0	13.4
50 Burnham Avenue, Wolf Lake	15.6	17.0	11.5	16.3	13.9	14.5	13.0	14.2	12.1	14.1	13.5
55 130th Street, Calumet River	16.0	16.6	14.6	17.6	13.5	15.8	15.6	14.4	12.3	15.1	14.8
86 Burnham Avenue, Grand Calumet River	18.0	17.8	11.9	16.8	13.7	16.2	15.4	15.6	12.9	15.5	15.1
56 Indiana Avenue, Little Calumet River	17.6	17.1	16.2	18.6	14.6	16.0	16.7	16.2	13.6	17.8	15.2
76 Halsted Street, Little Calumet River	16.6	14.4	14.1	17.2	15.3	16.4	13.5	15.7	14.8	15.0	16.2
52 Wentworth Avenue, Little Calumet River	15.2	15.9	13.2	14.9	14.1	14.5	14.3	16.2	13.1	13.9	14.6
54 Joe Orr Road, Thorn Creek	15.0	16.7	13.9	16.3	15.1	15.0	15.3	14.9	15.0	15.9	17.3
97 170th Street, Thorn Creek	15.0	16.4	12.1	15.4	14.7	13.4	14.7	15.3	14.4	15.5	ND
57 Ashland Avenue, Little Calumet River	14.4	16.5	15.4	15.3	15.7	15.7	16.2	17.1	12.9	15.7	15.6
58 Ashland Avenue, Calumet-Sag Channel	15.5	14.3	13.8	16.3	14.3	15.8	14.2	15.1	14.5	14.7	15.7
59 Cicero Avenue, Calumet-Sag Channel	16.0	15.9	14.2	16.5	16.6	15.0	16.6	16.9	16.3	14.5	15.5
43 Route 83, Calumet-Sag Channel	15.8	16.2	15.4	17.3	15.1	16.7	20.0	16.8	14.9	14.2	15.5
Des Plaines River System											
90 Route 19, Poplar Creek	15.4	13.6	14.5	14.3	13.2	15.1	15.0	13.8	16.3	14.0	17.7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	20.4	ND	11.3	16.2
89 Walnut Lane, West Branch DuPage River	16.3	15.7	16.3	15.7	13.8	16.9	16.1	16.6	15.5	15.8	15.2
64 Lake Street, West Branch DuPage River	12.1	13.5	15.3	14.8	14.5	16.5	15.9	14.4	14.2	16.0	15.5
79 Higgins Road, Salt Creek	18.9	16.7	18.2	15.8	18.6	19.2	15.0	15.1	18.9	16.8	15.9
80 Arlington Heights Road, Salt Creek	15.0	13.6	15.0	15.0	14.6	16.4	15.9	14.9	14.2	14.5	14.2
18 Devon Avenue, Salt Creek	13.4	14.0	14.6	14.3	14.0	15.3	15.4	16.0	14.6	14.5	14.5
24 Wolf Road, Salt Creek	11.3	12.1	14.6	14.6	13.5	14.8	16.2	12.9	12.3	13.8	16.3
109 Brookfield Avenue, Salt Creek	13.8	12.3	15.2	14.5	12.8	14.9	15.1	14.1	15.9	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	3.4	13.5	15.3
77 Elmhurst Road, Higgins Creek	14.8	12.2	10.5	14.0	13.3	12.3	12.7	15.4	15.0	14.5	15.2
78 Wille Road, Higgins Creek	17.7	13.8	17.6	16.2	16.1	17.1	15.6	15.4	16.0	15.6	16.3
12 Lake-Cook Road, Buffalo Creek	14.9	10.5	13.9	14.2	11.1	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	14.1	11.1	14.7	13.1	12.9	15.8	14.1	12.4	12.2	13.3	13.3
17 Oakton Street, Des Plaines River	15.1	12.8	15.8	14.4	13.6	15.9	15.2	15.5	14.4	13.5	15.1
19 Belmont Avenue, Des Plaines River	15.0	11.8	15.3	14.8	14.2	15.3	16.2	13.6	12.1	13.5	15.1
20 Roosevelt Road, Des Plaines River	15.3	13.4	15.7	15.2	13.8	15.4	15.7	15.3	12.2	13.8	15.0
22 Ogden Avenue, Des Plaines River	13.0	11.8	14.9	14.4	13.0	15.1	16.5	6.0	11.3	13.9	15.5
23 Willow Springs Road, Des Plaines River	14.1	12.1	15.2	15.7	12.7	14.7	16.1	15.0	14.4	13.6	16.1
29 Stephen Street, Des Plaines River	13.5	12.6	14.3	15.5	13.4	15.1	17.2	13.8	12.3	14.2	16.6
91 Material Service Road, Des Plaines River	14.0	11.7	14.7	15.8	13.8	15.0	17.1	13.2	12.5	16.2	15.1
110 Springinguth Road, West Branch DuPage River	17.9	13.7	13.5	14.9	13.2	15.1	15.3	ND	ND	ND	ND

ND = No Data.

TABLE AII-50: pH MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.50	8.00
106 Dundee Road, West Fork North Branch Chicago River	7.25	7.18	7.52	7.64	7.22	7.53	7.33	7.57	7.54	7.38	ND
103 Golf Road, West Fork North Branch Chicago River	7.63	7.49	7.44	7.50	7.47	7.42	7.72	7.65	7.77	7.75	ND
31 Lake-Cook Road, Middle Fork North Branch	7.61	7.60	7.64	7.67	7.47	7.26	7.32	7.59	7.44	7.60	7.79
104 Glenview Road, North Branch Chicago River	7.71	7.76	7.86	7.85	7.71	7.22	7.45	7.97	7.73	7.63	ND
32 Lake-Cook Road, Skokie River	7.70	7.66	7.74	7.85	7.66	7.19	7.34	7.59	7.43	7.61	7.95
105 Frontage Road, Skokie River	7.56	7.64	7.77	7.88	7.68	7.19	7.47	7.65	7.69	7.70	ND
34 Dempster Street, North Branch Chicago River	7.70	7.78	7.61	7.67	7.74	7.45	7.72	7.72	7.59	7.62	7.78
96 Albany Avenue, North Branch Chicago River	7.94	7.88	7.80	7.77	7.59	7.30	7.53	7.69	7.81	7.40	7.65
35 Central Street, North Shore Channel	7.62	7.83	7.80	7.78	7.70	7.65	7.89	7.31	7.90	7.77	8.31
102 Oakton Street, North Shore Channel	7.57	7.67	7.69	7.58	7.56	7.35	7.73	7.13	7.36	7.37	ND
36 Touhy Avenue, North Shore Channel	7.30	7.33	7.40	7.40	7.23	7.14	7.41	7.25	7.38	7.19	7.63
101 Foster Avenue, North Shore Channel	7.11	7.33	7.31	7.25	7.13	7.18	7.27	7.13	7.28	7.14	ND
37 Wilson Avenue, North Branch Chicago River	7.35	7.54	7.40	7.44	7.39	7.32	7.59	7.50	7.44	7.29	7.57
73 Diversey Parkway, North Branch Chicago River	7.31	7.30	7.42	7.21	7.36	7.23	7.37	7.26	7.45	7.12	7.59
46 Grand Avenue, North Branch Chicago River	7.39	7.49	7.43	7.45	7.37	7.21	7.47	7.41	7.36	7.09	7.60
74 Lake Shore Drive, Chicago River	7.39	7.49	7.64	7.60	7.75	7.52	7.73	7.33	7.43	7.95	7.70
100 Wells Street, Chicago River	7.38	7.68	7.62	7.68	7.72	7.44	7.49	7.30	7.23	7.66	ND
39 Madison Street, South Branch Chicago River	7.23	7.45	7.42	7.65	7.49	7.41	7.31	7.25	7.23	7.39	7.54
108 Loomis Street, South Branch Chicago River	7.33	7.42	7.59	7.50	7.46	7.44	7.30	7.36	7.25	7.02	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.34	7.25	7.42	7.45	7.38	7.27	7.27	7.35	7.13	7.03	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.40	7.46	7.54	7.49	7.46	7.39	7.40	7.38	ND	ND	7.45
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	7.10	7.06	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.04	7.14	7.19	7.29	7.22	7.23	7.47	7.27	7.16	7.23	7.27
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.23	7.24	7.41	7.27	7.20	7.11	7.47	7.23	7.17	7.19	7.42
42 Route 83, Chicago Sanitary & Ship Canal	7.02	6.96	7.10	7.13	6.92	7.08	7.40	7.12	7.22	7.13	7.32
48 Stephen Street, Chicago Sanitary & Ship Canal	7.24	7.28	7.57	7.32	7.08	7.03	7.34	7.25	7.26	7.23	7.48
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.75
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.33	7.39	7.40	7.31	7.29	7.20	7.38	7.33	7.27	7.11	7.28
Calumet River System											
49 Ewing Avenue, Calumet River	7.57	7.45	7.45	7.77	7.72	7.48	8.01	7.65	7.55	7.47	7.96
50 Burnham Avenue, Wolf Lake	7.74	7.81	8.04	8.29	8.26	7.65	7.82	8.18	7.91	7.76	8.06
55 130th Street, Calumet River	7.86	7.84	7.92	7.85	7.94	7.64	7.78	7.86	7.87	7.41	7.72
86 Burnham Avenue, Grand Calumet River	7.27	7.35	7.69	7.64	7.43	7.30	7.51	7.58	7.73	7.39	7.74
56 Indiana Avenue, Little Calumet River	7.57	7.49	7.49	7.65	7.81	7.06	7.67	7.73	7.63	7.79	7.73
76 Halsted Street, Little Calumet River	7.30	7.31	7.34	7.40	7.51	7.11	7.40	7.36	7.35	7.21	7.47
52 Wentworth Avenue, Little Calumet River	7.63	7.77	7.86	7.77	7.75	7.16	7.43	7.63	7.56	7.31	7.84
54 Joe Orr Road, Thorn Creek	7.27	7.03	7.32	7.17	7.32	7.10	7.38	7.37	7.37	7.12	7.51
97 170th Street, Thorn Creek	7.66	7.76	7.83	7.71	7.70	6.96	7.44	7.61	7.58	7.14	ND
57 Ashland Avenue, Little Calumet River	7.60	7.78	7.79	7.71	7.74	7.07	7.42	7.39	7.55	7.20	7.41
58 Ashland Avenue, Calumet-Sag Channel	7.38	7.48	7.44	7.42	7.40	6.91	7.33	7.47	7.37	7.26	7.31
59 Cicero Avenue, Calumet-Sag Channel	7.48	7.42	7.46	7.39	7.38	7.04	7.40	7.54	7.07	7.19	7.17
43 Route 83, Calumet-Sag Channel	7.47	7.55	7.70	7.51	7.55	7.25	7.46	7.66	6.99	7.16	7.17
Des Plaines River System											
90 Route 19, Poplar Creek	7.83	7.91	7.88	7.95	7.80	7.70	7.65	7.58	7.64	7.54	8.08
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	7.40	ND	7.43	7.95
89 Walnut Lane, West Branch DuPage River	7.51	7.48	7.58	7.59	7.43	7.40	7.44	7.37	7.46	7.42	8.13
64 Lake Street, West Branch DuPage River	7.71	7.77	7.74	7.81	7.64	7.57	7.48	7.48	7.66	7.50	8.30
79 Higgins Road, Salt Creek	7.51	7.77	7.57	7.80	7.94	7.39	7.54	7.54	7.74	7.50	8.16
80 Arlington Heights Road, Salt Creek	7.52	7.46	7.39	7.59	7.50	7.45	7.42	7.34	7.56	7.44	8.16
18 Devon Avenue, Salt Creek	7.60	7.55	7.51	7.63	7.55	7.44	7.35	7.39	7.26	7.58	8.03
24 Wolf Road, Salt Creek	7.48	7.30	7.41	7.52	7.31	7.30	7.67	7.31	7.45	7.63	7.78
109 Brookfield Avenue, Salt Creek	7.58	7.69	7.54	7.72	7.40	7.32	7.56	7.44	7.13	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	7.40	7.43	7.40
77 Elmhurst Road, Higgins Creek	7.68	7.76	7.88	7.80	7.40	7.39	7.80	7.54	7.35	7.65	7.81
78 Wille Road, Higgins Creek	7.61	7.58	7.63	7.67	7.54	7.37	7.66	7.58	7.14	7.72	7.60
12 Lake-Cook Road, Buffalo Creek	7.47	7.37	7.80	7.70	7.73	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.58	7.72	7.89	7.69	7.68	7.44	7.77	7.62	7.52	7.68	7.92
17 Oakton Street, Des Plaines River	7.74	7.78	8.01	7.79	7.57	7.44	7.63	7.67	7.34	7.69	7.75
19 Belmont Avenue, Des Plaines River	7.82	7.82	7.98	7.83	7.67	7.45	7.62	7.68	7.40	7.65	7.64
20 Roosevelt Road, Des Plaines River	7.85	7.91	8.02	7.84	7.89	7.49	7.67	7.71	7.32	7.59	7.68
22 Ogden Avenue, Des Plaines River	7.81	7.72	7.62	7.96	7.50	7.49	7.63	7.46	7.49	7.55	7.12
23 Willow Springs Road, Des Plaines River	7.86	7.91	7.86	7.79	7.62	7.62	7.63	7.59	7.60	7.66	7.83
29 Stephen Street, Des Plaines River	7.86	7.90	7.92	7.72	7.64	7.55	7.71	7.67	7.82	7.71	7.82
91 Material Service Road, Des Plaines River	7.97	8.13	8.04	7.98	7.87	7.74	7.65	7.80	7.85	7.40	7.65
110 Springinguth Road, West Branch DuPage River	7.41	7.53	7.40	7.76	7.54	7.43	7.49	ND	ND	ND	ND

ND = No Data.

TABLE AII-51: ALKALINITY (TOTAL) MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	196	170
106 Dundee Road, West Fork North Branch Chicago River	158	173	171	163	147	152	178	138	187	180	ND
103 Golf Road, West Fork North Branch Chicago River	181	180	165	186	178	172	179	168	185	177	ND
31 Lake-Cook Road, Middle Fork North Branch	192	196	177	205	185	199	196	194	213	201	189
104 Glenview Road, North Branch Chicago River	171	184	168	173	165	156	182	170	183	189	ND
32 Lake-Cook Road, Skokie River	196	203	188	215	184	183	209	191	210	210	200
105 Frontage Road, Skokie River	170	187	170	168	164	154	178	160	178	182	ND
34 Dempster Street, North Branch Chicago River	183	180	165	175	170	164	175	159	180	179	163
96 Albany Avenue, North Branch Chicago River	172	186	164	174	173	167	169	170	176	186	161
35 Central Street, North Shore Channel	118	119	113	121	117	115	116	117	119	111	126
102 Oakton Street, North Shore Channel	131	136	120	133	134	126	137	128	130	119	ND
36 Touhy Avenue, North Shore Channel	136	156	145	142	144	136	151	140	149	151	137
101 Foster Avenue, North Shore Channel	139	149	145	142	145	135	144	137	149	142	ND
37 Wilson Avenue, North Branch Chicago River	139	149	146	145	146	138	159	139	148	156	141
73 Diversey Parkway, North Branch Chicago River	149	152	147	147	146	135	156	139	144	155	138
46 Grand Avenue, North Branch Chicago River	145	150	141	147	147	144	156	145	147	157	143
74 Lake Shore Drive, Chicago River	110	118	111	124	120	120	119	116	120	125	123
100 Wells Street, Chicago River	119	130	125	125	127	123	125	130	130	132	ND
39 Madison Street, South Branch Chicago River	134	150	134	135	142	137	137	140	141	147	137
108 Loomis Street, South Branch Chicago River	135	149	134	136	143	142	136	138	154	137	ND
99 Archer Avenue, South Fork South Branch Chicago River	146	149	143	135	147	138	142	133	148	157	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	136	152	136	136	142	138	138	136	ND	ND	136
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	150	139	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	140	145	141	137	158	140	142	132	153	141	135
41 Harlem Avenue, Chicago Sanitary & Ship Canal	138	144	134	131	130	126	132	117	137	139	121
42 Route 83, Chicago Sanitary & Ship Canal	143	149	132	138	139	138	137	126	140	137	126
48 Stephen Street, Chicago Sanitary & Ship Canal	145	146	137	142	146	142	143	138	158	144	158
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	143
92 Lockport Forebay, Chicago Sanitary & Ship Canal	146	149	137	146	143	138	140	133	141	148	137
Calumet River System											
49 Ewing Avenue, Calumet River	107	113	104	113	113	109	111	110	110	112	115
50 Burnham Avenue, Wolf Lake	103	102	98	104	100	109	111	104	96	96	101
55 130th Street, Calumet River	108	117	105	114	112	112	116	111	117	116	116
86 Burnham Avenue, Grand Calumet River	250	225	243	262	248	170	203	196	176	165	168
56 Indiana Avenue, Little Calumet River	120	136	125	137	127	125	129	127	138	126	127
76 Halsted Street, Little Calumet River	147	162	155	162	162	153	159	146	156	159	154
52 Wentworth Avenue, Little Calumet River	184	204	216	208	222	175	206	208	225	190	195
54 Joe Orr Road, Thorn Creek	178	190	185	177	189	152	183	158	183	195	172
97 170th Street, Thorn Creek	163	204	195	176	205	172	186	172	190	182	ND
57 Ashland Avenue, Little Calumet River	166	193	192	174	208	168	180	182	194	174	190
58 Ashland Avenue, Calumet-Sag Channel	159	163	158	156	167	154	158	155	167	163	159
59 Cicero Avenue, Calumet-Sag Channel	153	165	154	154	171	150	150	151	157	161	161
43 Route 83, Calumet-Sag Channel	158	160	154	151	168	151	153	150	152	161	162
Des Plaines River System											
90 Route 19, Poplar Creek	222	227	211	210	190	188	216	185	209	207	196
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	118	ND	195	156
89 Walnut Lane, West Branch DuPage River	154	179	147	152	160	150	148	135	158	165	155
64 Lake Street, West Branch DuPage River	180	170	145	150	184	133	147	129	157	162	146
79 Higgins Road, Salt Creek	135	183	176	159	155	142	197	127	166	182	161
80 Arlington Heights Road, Salt Creek	148	152	126	133	142	136	149	133	151	147	136
18 Devon Avenue, Salt Creek	154	149	125	132	142	135	149	132	147	145	132
24 Wolf Road, Salt Creek	154	172	141	140	145	134	156	126	154	159	144
109 Brookfield Avenue, Salt Creek	150	169	142	139	144	133	160	125	128	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	185	161	150
77 Elmhurst Road, Higgins Creek	114	149	128	118	121	120	158	102	139	168	140
78 Wille Road, Higgins Creek	176	204	165	175	179	150	192	159	181	195	171
12 Lake-Cook Road, Buffalo Creek	204	211	197	188	181	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	192	201	199	201	189	179	196	168	214	210	191
17 Oakton Street, Des Plaines River	180	194	192	187	179	171	192	167	206	201	175
19 Belmont Avenue, Des Plaines River	171	196	180	179	177	167	189	155	192	203	172
20 Roosevelt Road, Des Plaines River	170	189	185	182	172	166	190	153	199	202	171
22 Ogden Avenue, Des Plaines River	169	182	170	164	163	151	176	155	181	190	160
23 Willow Springs Road, Des Plaines River	165	184	171	168	162	154	180	141	177	189	157
29 Stephen Street, Des Plaines River	170	180	173	172	169	159	180	149	181	188	165
91 Material Service Road, Des Plaines River	175	184	170	175	173	163	184	146	185	183	172
110 Springinguth Road, West Branch DuPage River	209	226	203	191	191	179	183	ND	ND	ND	ND

ND = No Data.

TABLE AII-52: CHLORIDE MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	856	847
106 Dundee Road, West Fork North Branch Chicago River	470	403	388	297	339	456	552	181	293	371	ND
103 Golf Road, West Fork North Branch Chicago River	400	321	330	329	344	501	298	270	244	227	ND
31 Lake-Cook Road, Middle Fork North Branch	304	219	293	286	258	318	205	217	185	203	217
104 Glenview Road, North Branch Chicago River	257	222	287	258	222	258	265	215	171	177	ND
32 Lake-Cook Road, Skokie River	251	196	265	290	214	310	239	220	190	218	242
105 Frontage Road, Skokie River	217	208	275	228	207	236	203	177	162	167	ND
34 Dempster Street, North Branch Chicago River	316	246	265	277	254	337	322	205	205	249	269
96 Albany Avenue, North Branch Chicago River	319	274	345	283	256	346	236	230	223	228	163
35 Central Street, North Shore Channel	30	44	90	51	37	35	31	47	64	16	60
102 Oakton Street, North Shore Channel	106	107	138	133	90	135	104	80	99	36	ND
36 Touhy Avenue, North Shore Channel	155	210	168	212	116	150	172	143	105	152	150
101 Foster Avenue, North Shore Channel	170	199	175	231	134	165	143	123	111	121	ND
37 Wilson Avenue, North Branch Chicago River	222	218	216	249	145	209	183	159	133	192	202
73 Diversey Parkway, North Branch Chicago River	199	248	235	190	140	196	193	168	136	199	190
46 Grand Avenue, North Branch Chicago River	175	195	248	204	154	186	219	174	133	191	148
74 Lake Shore Drive, Chicago River	78	48	60	106	64	62	62	73	69	98	81
100 Wells Street, Chicago River	122	84	148	127	89	109	103	108	88	98	ND
39 Madison Street, South Branch Chicago River	168	152	191	174	125	156	129	136	102	179	126
108 Loomis Street, South Branch Chicago River	188	152	193	207	143	158	141	137	122	96	ND
99 Archer Avenue, South Fork South Branch Chicago River	171	146	194	190	110	150	148	134	127	117	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	185	154	190	218	137	153	142	137	ND	ND	134
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	122	138	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	161	155	211	228	136	156	161	150	130	148	124
41 Harlem Avenue, Chicago Sanitary & Ship Canal	188	187	195	267	146	162	167	149	124	170	166
42 Route 83, Chicago Sanitary & Ship Canal	196	174	214	187	151	170	221	156	144	203	139
48 Stephen Street, Chicago Sanitary & Ship Canal	202	163	199	165	152	164	179	160	156	202	126
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	225
92 Lockport Forebay, Chicago Sanitary & Ship Canal	181	170	230	194	158	181	195	166	151	187	179
Calumet River System											
49 Ewing Avenue, Calumet River	35	38	33	46	44	38	31	35	40	59	51
50 Burnham Avenue, Wolf Lake	86	79	66	68	47	59	55	42	43	45	32
55 130th Street, Calumet River	83	98	104	88	83	75	69	64	68	93	74
86 Burnham Avenue, Grand Calumet River	80	148	134	144	155	137	138	176	200	180	177
56 Indiana Avenue, Little Calumet River	104	100	116	109	98	82	82	88	109	95	103
76 Halsted Street, Little Calumet River	159	150	202	181	153	174	154	133	127	162	150
52 Wentworth Avenue, Little Calumet River	122	110	150	132	122	140	160	179	189	137	155
54 Joe Orr Road, Thorn Creek	210	145	171	176	183	212	235	94	191	187	162
97 170th Street, Thorn Creek	192	163	183	158	182	228	222	217	194	163	ND
57 Ashland Avenue, Little Calumet River	182	135	176	171	174	205	200	193	173	168	190
58 Ashland Avenue, Calumet-Sag Channel	159	147	207	161	161	180	167	155	147	167	164
59 Cicero Avenue, Calumet-Sag Channel	160	136	170	167	155	171	167	150	145	167	168
43 Route 83, Calumet-Sag Channel	178	139	164	164	150	144	156	142	144	179	168
Des Plaines River System											
90 Route 19, Poplar Creek	273	215	282	277	279	278	241	201	220	229	143
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	154	ND	283	189
89 Walnut Lane, West Branch DuPage River	171	170	196	187	193	181	207	205	169	171	153
64 Lake Street, West Branch DuPage River	340	188	232	235	201	211	198	186	190	198	160
79 Higgins Road, Salt Creek	266	258	385	353	287	409	363	235	260	327	278
80 Arlington Heights Road, Salt Creek	289	248	389	268	280	323	225	241	213	234	219
18 Devon Avenue, Salt Creek	327	231	384	287	283	320	236	250	204	247	223
24 Wolf Road, Salt Creek	313	244	346	275	241	261	250	241	254	268	220
109 Brookfield Avenue, Salt Creek	293	231	321	271	257	258	264	208	135	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	654	260	213
77 Elmhurst Road, Higgins Creek	583	305	548	259	571	478	514	424	460	479	336
78 Wille Road, Higgins Creek	220	233	274	247	217	220	190	213	259	221	191
12 Lake-Cook Road, Buffalo Creek	310	218	357	272	259	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	185	148	220	184	210	221	176	202	188	158	152
17 Oakton Street, Des Plaines River	221	154	238	195	245	251	197	202	224	182	141
19 Belmont Avenue, Des Plaines River	231	173	279	208	250	230	225	255	236	188	153
20 Roosevelt Road, Des Plaines River	232	164	285	214	249	260	211	173	265	190	157
22 Ogden Avenue, Des Plaines River	250	173	270	228	244	255	218	261	269	205	170
23 Willow Springs Road, Des Plaines River	239	177	275	238	234	268	222	197	226	204	177
29 Stephen Street, Des Plaines River	235	172	290	242	236	255	212	210	267	199	175
91 Material Service Road, Des Plaines River	242	185	284	225	242	249	212	200	251	198	202
110 Springinguth Road, West Branch DuPage River	239	254	340	267	466	355	310	ND	ND	ND	ND

ND = No Data.

TABLE AII-53: TURBIDITY MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (NTU)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.5	81.0
106 Dundee Road, West Fork North Branch Chicago River	18.0	26.9	31.4	29.0	66.6	30.1	49.5	32.2	19.2	24.6	ND
103 Golf Road, West Fork North Branch Chicago River	12.4	24.1	18.4	14.1	32.2	25.6	20.1	16.9	20.7	18.5	ND
31 Lake-Cook Road, Middle Fork North Branch	10.6	18.3	18.3	14.9	46.2	16.7	22.8	13.1	16.6	22.3	16.8
104 Glenview Road, North Branch Chicago River	7.6	15.0	16.9	13.7	32.9	15.2	18.2	14.7	15.3	14.1	ND
32 Lake-Cook Road, Skokie River	9.2	16.2	18.5	14.6	37.0	16.8	19.8	12.6	13.4	15.6	13.0
105 Frontage Road, Skokie River	9.5	14.8	13.1	15.6	16.5	13.4	16.7	12.0	12.5	12.9	ND
34 Dempster Street, North Branch Chicago River	9.4	17.0	17.8	15.3	28.9	18.9	19.1	14.5	18.0	18.1	18.5
96 Albany Avenue, North Branch Chicago River	13.1	17.4	20.2	14.6	23.5	16.0	18.3	14.1	14.5	13.3	11.0
35 Central Street, North Shore Channel	5.5	8.1	9.7	5.1	9.3	5.9	7.3	8.2	10.6	10.3	11.8
102 Oakton Street, North Shore Channel	14.3	7.9	15.0	10.3	13.2	12.2	11.3	11.6	14.1	14.4	ND
36 Touhy Avenue, North Shore Channel	4.0	5.1	4.8	4.2	5.8	6.5	7.6	7.1	8.1	6.7	8.1
101 Foster Avenue, North Shore Channel	4.6	4.4	5.4	5.1	5.9	7.0	7.5	8.0	9.5	8.7	ND
37 Wilson Avenue, North Branch Chicago River	6.6	11.4	8.2	8.2	9.3	9.5	10.5	9.2	11.3	11.4	9.7
73 Diversey Parkway, North Branch Chicago River	6.5	10.6	10.3	8.8	10.4	10.0	11.4	9.5	12.4	11.8	10.1
46 Grand Avenue, North Branch Chicago River	8.0	12.6	10.0	13.2	13.4	11.3	14.9	10.2	13.2	12.0	12.6
74 Lake Shore Drive, Chicago River	2.2	3.8	4.6	3.5	2.8	3.3	3.4	5.5	6.0	5.9	8.3
100 Wells Street, Chicago River	3.8	4.1	7.4	4.0	3.5	4.7	4.7	7.0	6.8	7.9	ND
39 Madison Street, South Branch Chicago River	8.4	9.7	10.8	10.7	8.0	9.1	11.1	9.8	11.6	12.5	10.5
108 Loomis Street, South Branch Chicago River	8.5	9.7	11.6	10.1	11.3	9.6	10.7	9.1	10.0	12.6	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.6	8.4	10.8	7.4	8.8	8.7	9.9	9.3	10.4	12.5	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	8.9	11.1	10.3	11.8	11.4	10.4	11.5	10.3	ND	ND	12.7
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	11.0	12.9	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	8.9	11.5	10.7	8.6	13.1	11.6	13.7	10.5	10.6	13.6	12.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5.0	6.1	6.0	6.0	6.9	6.4	6.9	7.2	8.3	8.5	9.3
42 Route 83, Chicago Sanitary & Ship Canal	4.2	5.5	8.3	6.9	5.4	5.8	6.6	8.0	8.6	8.0	8.2
48 Stephen Street, Chicago Sanitary & Ship Canal	6.9	11.0	13.9	10.2	11.6	11.5	11.4	9.9	9.9	10.4	11.1
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.0	11.1	14.4	9.0	11.2	10.6	10.6	9.5	10.0	11.4	11.5
Calumet River System											
49 Ewing Avenue, Calumet River	2.9	3.6	4.2	4.0	7.2	5.6	7.7	6.9	7.5	9.8	10.6
50 Burnham Avenue, Wolf Lake	3.5	3.5	4.2	3.8	2.9	5.3	3.8	5.3	5.2	6.6	6.4
55 130th Street, Calumet River	2.7	4.3	6.0	6.3	6.3	5.9	6.4	7.8	9.4	10.8	13.5
86 Burnham Avenue, Grand Calumet River	13.0	6.0	11.9	10.3	12.8	25.3	11.5	9.4	9.3	10.0	12.5
56 Indiana Avenue, Little Calumet River	8.9	18.2	25.2	20.3	19.6	24.8	19.6	16.8	18.9	17.9	15.8
76 Halsted Street, Little Calumet River	4.9	8.9	11.5	8.4	9.3	10.2	11.1	8.4	10.3	11.1	10.3
52 Wentworth Avenue, Little Calumet River	61.2	38.2	17.7	31.2	33.6	32.2	30.9	16.1	22.6	24.7	33.0
54 Joe Orr Road, Thorn Creek	24.1	15.8	5.8	9.8	5.8	63.6	17.8	29.4	8.0	10.3	22.0
97 170th Street, Thorn Creek	51.5	21.5	16.3	25.4	26.5	46.2	29.2	19.8	14.9	27.6	ND
57 Ashland Avenue, Little Calumet River	42.1	25.9	16.0	28.2	24.3	42.5	27.5	20.1	16.6	26.2	21.3
58 Ashland Avenue, Calumet-Sag Channel	19.7	12.9	13.6	16.6	11.5	13.4	14.7	14.5	12.0	14.8	13.3
59 Cicero Avenue, Calumet-Sag Channel	14.1	12.9	14.9	18.8	14.3	14.2	17.8	14.3	14.6	15.2	13.3
43 Route 83, Calumet-Sag Channel	9.2	13.6	12.8	14.5	18.6	14.2	15.7	20.7	16.2	22.0	18.5
Des Plaines River System											
90 Route 19, Poplar Creek	12.0	10.4	14.1	7.9	20.3	14.7	10.0	17.1	11.9	13.2	18.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	22.6	ND	20.3	21.8
89 Walnut Lane, West Branch DuPage River	7.0	5.5	13.5	7.5	7.4	7.6	8.3	10.2	7.5	9.0	13.5
64 Lake Street, West Branch DuPage River	18.5	17.7	22.9	19.2	25.4	26.3	22.5	19.0	18.6	21.3	27.6
79 Higgins Road, Salt Creek	25.4	21.1	23.8	25.1	30.4	42.9	23.2	30.3	24.6	22.5	29.4
80 Arlington Heights Road, Salt Creek	6.0	12.5	5.8	9.1	9.8	6.5	5.7	8.1	6.9	9.8	10.8
18 Devon Avenue, Salt Creek	6.9	12.4	7.5	10.1	11.1	10.1	11.6	9.6	9.2	11.8	15.6
24 Wolf Road, Salt Creek	14.2	17.0	19.4	24.0	28.7	20.1	16.2	22.6	13.8	17.2	22.6
109 Brookfield Avenue, Salt Creek	19.4	18.9	18.9	21.1	32.5	23.3	17.0	27.8	13.0	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	12.9	18.1	23.0
77 Elmhurst Road, Higgins Creek	19.3	18.9	44.3	23.9	32.5	29.3	29.5	23.0	22.2	18.8	27.7
78 Wille Road, Higgins Creek	3.1	4.0	7.1	4.5	4.8	3.9	5.1	7.1	6.9	7.3	7.2
12 Lake-Cook Road, Buffalo Creek	23.9	21.4	20.4	26.7	25.6	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	12.9	20.9	17.0	16.5	20.7	19.4	18.5	18.7	15.8	16.9	23.9
17 Oakton Street, Des Plaines River	13.5	21.5	20.0	16.9	19.5	15.1	18.4	21.7	15.6	18.4	27.5
19 Belmont Avenue, Des Plaines River	12.7	21.6	25.6	18.6	20.7	17.6	17.1	20.8	17.1	16.7	20.4
20 Roosevelt Road, Des Plaines River	16.6	22.7	22.0	19.0	21.3	17.5	16.8	21.3	16.1	16.9	22.3
22 Ogden Avenue, Des Plaines River	15.3	23.8	20.6	21.7	28.3	23.8	16.3	24.2	15.0	17.3	23.6
23 Willow Springs Road, Des Plaines River	13.1	23.7	21.5	21.2	26.3	20.9	19.1	19.6	15.8	22.9	26.0
29 Stephen Street, Des Plaines River	16.6	24.8	18.5	18.0	26.2	23.0	20.2	20.9	15.9	26.0	26.6
91 Material Service Road, Des Plaines River	15.0	22.0	17.6	21.7	22.1	25.8	20.5	22.4	16.9	24.7	24.5
110 Springinguth Road, West Branch DuPage River	10.1	25.1	22.2	16.2	19.1	25.2	32.9	ND	ND	ND	ND

ND = No Data.

TABLE AII-54: ELECTRICAL CONDUCTIVITY MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (μmhos)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1235
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-55: TOTAL KJELDAHL NITROGEN MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	2.18
106 Dundee Road, West Fork North Branch Chicago River	1.24	1.40	1.59	1.30	1.90	1.31	1.58	1.88	1.52	2.16	ND
103 Golf Road, West Fork North Branch Chicago River	1.15	1.10	1.05	1.34	1.36	1.41	1.04	1.25	2.01	1.50	ND
31 Lake-Cook Road, Middle Fork North Branch	0.95	0.94	1.16	1.20	1.09	1.36	1.05	1.24	1.26	1.34	1.67
104 Glenview Road, North Branch Chicago River	0.88	0.99	1.14	1.27	1.54	1.22	0.99	1.33	1.21	1.43	ND
32 Lake-Cook Road, Skokie River	0.81	0.88	0.86	1.08	1.29	1.67	1.08	0.97	1.18	1.17	1.09
105 Frontage Road, Skokie River	1.01	1.01	1.06	1.31	1.32	1.25	0.96	1.16	1.26	1.36	ND
34 Dempster Street, North Branch Chicago River	1.53	1.08	1.14	1.23	1.43	1.22	1.04	1.12	1.58	1.71	1.45
96 Albany Avenue, North Branch Chicago River	0.94	0.86	1.03	1.16	1.27	1.31	0.94	1.17	1.40	1.96	1.60
35 Central Street, North Shore Channel	0.32	0.45	0.43	0.58	0.57	0.39	0.54	0.84	1.02	0.63	1.05
102 Oakton Street, North Shore Channel	1.46	0.85	1.08	1.27	1.41	1.54	1.45	1.91	1.81	1.10	ND
36 Touhy Avenue, North Shore Channel	2.06	1.38	1.59	2.07	1.99	3.08	2.35	2.75	2.60	2.66	2.65
101 Foster Avenue, North Shore Channel	2.10	1.37	1.82	2.39	2.07	3.53	3.31	3.02	2.98	2.70	ND
37 Wilson Avenue, North Branch Chicago River	1.84	1.32	1.60	1.92	1.97	3.19	3.07	2.63	2.60	2.66	3.10
73 Diversey Parkway, North Branch Chicago River	1.77	1.19	1.36	1.79	1.71	2.25	2.20	2.39	2.33	2.43	2.52
46 Grand Avenue, North Branch Chicago River	1.96	1.49	1.56	1.94	1.85	2.82	2.26	2.16	2.51	2.34	2.40
74 Lake Shore Drive, Chicago River	0.29	0.26	0.43	0.55	0.48	0.73	0.66	0.73	0.67	1.01	1.10
100 Wells Street, Chicago River	0.65	0.54	0.88	0.85	0.87	1.15	1.25	1.59	1.10	1.08	ND
39 Madison Street, South Branch Chicago River	1.29	1.12	1.33	1.44	1.46	2.32	1.93	2.35	2.46	1.94	2.36
108 Loomis Street, South Branch Chicago River	1.29	1.11	1.36	1.47	1.71	2.33	2.00	1.69	2.03	1.60	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.98	1.66	1.97	1.57	1.49	2.46	2.07	2.07	2.62	3.35	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.57	1.27	1.41	1.45	1.64	2.31	1.99	1.97	ND	ND	2.31
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	2.20	2.02	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.40	1.12	1.55	1.47	1.70	2.10	1.80	1.96	2.15	1.92	1.99
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.51	1.41	1.49	1.75	1.55	1.93	1.20	1.51	1.68	1.91	1.72
42 Route 83, Chicago Sanitary & Ship Canal	1.83	1.33	1.48	1.79	1.61	1.81	1.45	1.62	1.97	1.94	1.65
48 Stephen Street, Chicago Sanitary & Ship Canal	1.54	1.27	1.33	1.56	1.74	1.76	1.32	1.57	1.91	1.87	1.93
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.96
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.49	1.29	1.40	1.55	1.61	1.67	1.38	1.58	1.66	1.86	1.83
Calumet River System											
49 Ewing Avenue, Calumet River	0.07	0.18	0.19	0.34	0.38	0.25	0.18	0.23	0.35	0.41	0.51
50 Burnham Avenue, Wolf Lake	0.52	0.77	0.71	0.85	0.74	0.73	0.57	0.52	0.49	0.62	0.73
55 130th Street, Calumet River	0.25	0.53	0.63	0.77	0.76	0.70	0.45	0.58	0.71	0.85	0.66
86 Burnham Avenue, Grand Calumet River	4.57	2.31	5.15	4.57	3.19	4.31	2.65	3.85	2.89	2.58	4.32
56 Indiana Avenue, Little Calumet River	0.64	0.99	1.00	1.13	1.09	0.84	0.88	1.02	1.02	1.05	1.01
76 Halsted Street, Little Calumet River	1.30	1.22	1.42	1.34	1.35	1.26	1.00	1.16	1.39	1.58	1.50
52 Wentworth Avenue, Little Calumet River	1.39	1.34	1.28	1.51	1.64	1.61	1.45	1.58	1.58	1.73	2.03
54 Joe Orr Road, Thorn Creek	1.24	1.39	1.39	1.50	1.42	1.55	1.27	1.19	1.47	1.53	1.92
97 170th Street, Thorn Creek	1.21	1.18	1.11	1.43	1.28	1.34	1.11	1.28	1.46	1.58	ND
57 Ashland Avenue, Little Calumet River	1.11	1.03	1.10	1.39	1.43	1.58	1.15	1.23	1.42	1.60	1.46
58 Ashland Avenue, Calumet-Sag Channel	1.28	1.09	1.32	1.40	1.47	1.30	1.03	1.22	1.35	1.55	1.50
59 Cicero Avenue, Calumet-Sag Channel	1.33	1.17	1.31	1.28	1.50	1.41	1.19	1.26	1.49	1.67	2.22
43 Route 83, Calumet-Sag Channel	1.29	1.20	1.24	1.41	1.37	1.25	1.15	1.32	1.50	1.94	1.45
Des Plaines River System											
90 Route 19, Poplar Creek	0.86	0.81	0.86	0.99	1.13	0.94	0.68	1.03	0.87	1.03	1.31
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	1.93	ND	1.88	1.66
89 Walnut Lane, West Branch DuPage River	1.68	1.53	1.60	1.85	1.72	1.93	1.56	2.28	1.83	2.30	2.37
64 Lake Street, West Branch DuPage River	1.97	1.55	1.68	2.01	1.84	2.09	1.93	2.37	2.05	2.53	2.70
79 Higgins Road, Salt Creek	1.30	1.22	1.19	1.51	1.45	1.41	1.07	1.47	1.60	1.49	1.82
80 Arlington Heights Road, Salt Creek	1.30	1.19	1.04	1.24	1.37	1.16	1.27	1.84	1.83	1.64	1.74
18 Devon Avenue, Salt Creek	1.46	1.11	0.96	1.12	1.38	1.42	1.35	1.86	1.87	1.74	1.73
24 Wolf Road, Salt Creek	2.00	1.09	1.07	1.19	1.38	1.25	0.91	1.48	1.44	1.52	1.61
109 Brookfield Avenue, Salt Creek	1.02	1.11	1.08	1.18	1.53	1.23	0.88	1.48	1.41	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	1.56	1.39	1.62
77 Elmhurst Road, Higgins Creek	0.72	0.93	0.96	0.96	1.38	1.29	0.74	1.40	1.31	1.34	1.41
78 Wille Road, Higgins Creek	1.28	1.22	1.59	1.60	1.84	1.51	1.45	1.49	1.65	1.85	2.35
12 Lake-Cook Road, Buffalo Creek	1.11	1.12	1.10	1.37	1.21	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.07	1.10	1.09	1.38	1.40	1.34	0.98	1.51	1.78	1.48	1.82
17 Oakton Street, Des Plaines River	1.04	1.16	1.19	1.27	1.39	1.31	1.02	1.54	1.52	1.55	1.58
19 Belmont Avenue, Des Plaines River	1.09	1.07	1.27	1.45	1.46	1.28	0.96	1.66	1.42	1.66	2.27
20 Roosevelt Road, Des Plaines River	1.05	1.11	1.17	1.28	1.37	1.20	1.03	1.65	1.35	1.56	1.57
22 Ogden Avenue, Des Plaines River	1.04	1.11	1.23	1.27	1.45	1.25	0.92	2.00	1.36	1.60	1.49
23 Willow Springs Road, Des Plaines River	0.92	1.19	1.10	1.22	1.50	1.23	0.99	1.26	1.57	1.69	1.67
29 Stephen Street, Des Plaines River	1.15	1.01	1.06	1.26	1.42	1.29	1.02	1.52	1.50	1.87	1.35
91 Material Service Road, Des Plaines River	0.99	1.08	1.11	1.20	1.49	1.29	1.02	1.62	1.49	1.63	1.63
110 Springinsguth Road, West Branch DuPage River	1.64	2.28	2.10	2.04	2.35	2.49	2.35	ND	ND	ND	ND

ND = No Data.

TABLE AII-56: AMMONIUM NITROGEN MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.300	0.470
106 Dundee Road, West Fork North Branch Chicago River	0.346	0.475	0.487	0.323	0.714	0.228	0.565	0.327	0.145	0.445	ND
103 Golf Road, West Fork North Branch Chicago River	0.181	0.251	0.200	0.221	0.251	0.265	0.232	0.215	0.797	0.277	ND
31 Lake-Cook Road, Middle Fork North Branch	0.064	0.094	0.181	0.145	0.119	0.190	0.205	0.178	0.124	0.139	0.169
104 Glenview Road, North Branch Chicago River	0.048	0.126	0.171	0.175	0.198	0.144	0.223	0.113	0.086	0.103	ND
32 Lake-Cook Road, Skokie River	0.080	0.109	0.126	0.198	0.213	0.320	0.166	0.221	0.110	0.190	0.187
105 Frontage Road, Skokie River	0.068	0.108	0.121	0.121	0.114	0.152	0.166	0.103	0.058	0.100	ND
34 Dempster Street, North Branch Chicago River	0.190	0.170	0.185	0.164	0.201	0.154	0.191	0.167	0.361	0.336	0.158
96 Albany Avenue, North Branch Chicago River	0.082	0.097	0.149	0.110	0.108	0.153	0.158	0.153	0.241	0.477	0.413
35 Central Street, North Shore Channel	0.125	0.164	0.114	0.166	0.139	0.071	0.310	0.331	0.313	0.183	0.301
102 Oakton Street, North Shore Channel	0.589	0.303	0.347	0.521	0.553	0.773	0.885	0.930	0.696	0.376	ND
36 Touhy Avenue, North Shore Channel	0.826	0.396	0.584	0.837	0.685	1.718	1.348	1.548	0.987	1.063	1.273
101 Foster Avenue, North Shore Channel	1.061	0.485	0.758	1.210	0.876	2.104	2.176	1.828	1.428	1.185	ND
37 Wilson Avenue, North Branch Chicago River	0.807	0.433	0.574	0.879	0.770	1.881	2.005	1.365	1.153	1.083	1.653
73 Diversey Parkway, North Branch Chicago River	0.900	0.312	0.427	0.698	0.643	1.091	1.276	1.197	0.959	0.863	1.227
46 Grand Avenue, North Branch Chicago River	1.021	0.519	0.613	0.710	0.638	1.617	1.415	1.216	1.171	0.968	1.201
74 Lake Shore Drive, Chicago River	0.145	0.092	0.088	0.185	0.105	0.400	0.339	0.348	0.238	0.413	0.372
100 Wells Street, Chicago River	0.338	0.175	0.297	0.297	0.229	0.583	0.686	0.798	0.500	0.462	ND
39 Madison Street, South Branch Chicago River	0.532	0.450	0.491	0.574	0.541	1.361	1.197	1.270	1.142	0.879	0.906
108 Loomis Street, South Branch Chicago River	0.579	0.413	0.522	0.513	0.730	1.360	1.251	0.819	0.988	0.587	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.937	0.715	0.771	0.637	0.620	1.320	1.136	1.062	1.123	1.715	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.613	0.484	0.580	0.563	0.618	1.277	1.185	0.969	ND	ND	1.116
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.968	0.878	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.562	0.436	0.660	0.590	0.617	1.175	1.107	0.941	0.869	0.769	0.843
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.521	0.583	0.505	0.556	0.364	0.941	0.508	0.499	0.534	0.754	0.438
42 Route 83, Chicago Sanitary & Ship Canal	0.799	0.497	0.573	0.687	0.482	0.816	0.649	0.643	0.655	0.756	0.630
48 Stephen Street, Chicago Sanitary & Ship Canal	0.536	0.441	0.465	0.478	0.544	0.797	0.564	0.598	0.718	0.721	0.692
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.619
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.573	0.418	0.471	0.516	0.479	0.654	0.635	0.588	0.502	0.654	0.595
Calumet River System											
49 Ewing Avenue, Calumet River	0.038	0.016	0.023	0.087	0.057	0.109	0.114	0.124	0.063	0.108	0.113
50 Burnham Avenue, Wolf Lake	0.080	0.093	0.102	0.132	0.098	0.183	0.203	0.118	0.018	0.087	0.092
55 130th Street, Calumet River	0.071	0.106	0.162	0.161	0.180	0.235	0.240	0.249	0.098	0.214	0.195
86 Burnham Avenue, Grand Calumet River	3.121	1.014	2.198	2.218	1.434	1.659	1.399	1.735	0.952	0.934	1.586
56 Indiana Avenue, Little Calumet River	0.202	0.324	0.261	0.306	0.193	0.199	0.256	0.317	0.115	0.127	0.307
76 Halsted Street, Little Calumet River	0.368	0.323	0.343	0.295	0.259	0.284	0.298	0.268	0.188	0.355	0.332
52 Wentworth Avenue, Little Calumet River	0.264	0.364	0.262	0.290	0.178	0.365	0.360	0.319	0.230	0.274	0.278
54 Joe Orr Road, Thorn Creek	0.166	0.252	0.227	0.295	0.153	0.240	0.324	0.127	0.116	0.110	0.380
97 170th Street, Thorn Creek	0.134	0.134	0.182	0.191	0.135	0.315	0.304	0.248	0.253	0.275	ND
57 Ashland Avenue, Little Calumet River	0.196	0.191	0.203	0.232	0.154	0.355	0.379	0.330	0.182	0.248	0.295
58 Ashland Avenue, Calumet-Sag Channel	0.334	0.301	0.354	0.301	0.302	0.320	0.298	0.294	0.186	0.415	0.374
59 Cicero Avenue, Calumet-Sag Channel	0.428	0.258	0.389	0.263	0.278	0.360	0.356	0.256	0.252	0.448	0.490
43 Route 83, Calumet-Sag Channel	0.407	0.314	0.335	0.310	0.261	0.321	0.438	0.260	0.317	0.513	0.336
Des Plaines River System											
90 Route 19, Poplar Creek	0.094	0.052	0.062	0.094	0.113	0.108	0.107	0.149	0.034	0.105	0.106
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.240	ND	0.305	0.154
89 Walnut Lane, West Branch DuPage River	0.118	0.081	0.152	0.242	0.122	0.273	0.332	0.482	0.117	0.294	0.341
64 Lake Street, West Branch DuPage River	0.755	0.153	0.249	0.340	0.252	0.482	0.552	0.596	0.287	0.460	0.645
79 Higgins Road, Salt Creek	0.098	0.063	0.039	0.129	0.111	0.100	0.140	0.214	0.090	0.106	0.172
80 Arlington Heights Road, Salt Creek	0.202	0.028	0.055	0.107	0.114	0.157	0.382	0.465	0.299	0.192	0.145
18 Devon Avenue, Salt Creek	0.221	0.045	0.046	0.112	0.124	0.193	0.313	0.501	0.360	0.228	0.161
24 Wolf Road, Salt Creek	0.180	0.117	0.160	0.162	0.153	0.163	0.195	0.241	0.218	0.171	0.196
109 Brookfield Avenue, Salt Creek	0.224	0.116	0.196	0.174	0.154	0.166	0.186	0.211	0.178	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.347	0.160	0.192
77 Elmhurst Road, Higgins Creek	0.000	0.135	0.214	0.172	0.199	0.123	0.180	0.240	0.107	0.187	0.134
78 Wille Road, Higgins Creek	0.221	0.268	0.373	0.353	0.405	0.269	0.437	0.331	0.211	0.250	0.396
12 Lake-Cook Road, Buffalo Creek	0.084	0.060	0.083	0.110	0.117	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.040	0.097	0.068	0.103	0.086	0.190	0.179	0.162	0.091	0.104	0.143
17 Oakton Street, Des Plaines River	0.065	0.071	0.061	0.099	0.115	0.145	0.192	0.150	0.071	0.093	0.107
19 Belmont Avenue, Des Plaines River	0.086	0.086	0.107	0.117	0.124	0.143	0.273	0.198	0.118	0.157	0.177
20 Roosevelt Road, Des Plaines River	0.065	0.057	0.098	0.088	0.107	0.143	0.188	0.166	0.097	0.140	0.145
22 Ogden Avenue, Des Plaines River	0.107	0.079	0.073	0.130	0.122	0.161	0.134	0.144	0.107	0.127	0.150
23 Willow Springs Road, Des Plaines River	0.088	0.113	0.059	0.131	0.147	0.124	0.155	0.162	0.072	0.134	0.160
29 Stephen Street, Des Plaines River	0.069	0.054	0.064	0.105	0.133	0.111	0.109	0.166	0.100	0.121	0.146
91 Material Service Road, Des Plaines River	0.028	0.080	0.047	0.085	0.137	0.122	0.119	0.161	0.057	0.115	0.140
110 Springinsguth Road, West Branch DuPage River	0.313	0.563	0.616	0.344	0.555	0.454	0.541	ND	ND	ND	ND

ND = No Data.

**TABLE AII-57: UN-IONIZED AMMONIA MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.004
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.002	0.005	0.002	0.002	0.002	0.006	0.006	0.001	0.007	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.002	0.002	0.002	0.002	0.003	0.005	0.003	0.008	0.007	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.003	0.003	0.001	0.002	0.002	0.003	0.001	0.002	0.006
104 Glenview Road, North Branch Chicago River	0.001	0.002	0.003	0.004	0.003	0.002	0.002	0.003	0.001	0.003	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.002	0.005	0.003	0.011	0.002	0.003	0.001	0.003	0.007
105 Frontage Road, Skokie River	0.001	0.001	0.002	0.002	0.003	0.001	0.002	0.001	0.001	0.004	ND
34 Dempster Street, North Branch Chicago River	0.002	0.002	0.002	0.002	0.005	0.002	0.003	0.002	0.003	0.003	0.005
96 Albany Avenue, North Branch Chicago River	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.004	0.007	0.004
35 Central Street, North Shore Channel	0.001	0.001	0.002	0.002	0.002	0.002	0.009	0.003	0.008	0.004	0.020
102 Oakton Street, North Shore Channel	0.005	0.003	0.004	0.005	0.004	0.005	0.011	0.007	0.006	0.003	ND
36 Touhy Avenue, North Shore Channel	0.005	0.002	0.004	0.007	0.005	0.012	0.010	0.009	0.013	0.007	0.051
101 Foster Avenue, North Shore Channel	0.005	0.004	0.004	0.009	0.005	0.019	0.011	0.007	0.011	0.006	ND
37 Wilson Avenue, North Branch Chicago River	0.007	0.004	0.004	0.008	0.007	0.021	0.035	0.017	0.010	0.011	0.058
73 Diversey Parkway, North Branch Chicago River	0.006	0.002	0.004	0.004	0.016	0.009	0.012	0.008	0.007	0.003	0.037
46 Grand Avenue, North Branch Chicago River	0.006	0.005	0.005	0.007	0.005	0.012	0.017	0.010	0.011	0.004	0.017
74 Lake Shore Drive, Chicago River	0.000	0.001	0.001	0.002	0.002	0.004	0.005	0.002	0.002	0.008	0.005
100 Wells Street, Chicago River	0.003	0.002	0.003	0.004	0.003	0.005	0.006	0.004	0.003	0.010	ND
39 Madison Street, South Branch Chicago River	0.004	0.003	0.004	0.008	0.007	0.014	0.007	0.006	0.007	0.008	0.011
108 Loomis Street, South Branch Chicago River	0.005	0.004	0.008	0.006	0.009	0.017	0.012	0.007	0.014	0.004	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.004	0.006	0.006	0.006	0.009	0.008	0.008	0.010	0.018	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.006	0.005	0.005	0.007	0.007	0.011	0.011	0.007	ND	ND	0.012
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.009	0.006	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.002	0.004	0.006	0.005	0.023	0.011	0.008	0.019	0.005	0.007
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	0.005	0.004	0.002	0.007	0.006	0.003	0.003	0.005	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.003	0.002	0.004	0.004	0.002	0.006	0.006	0.003	0.004	0.004	0.006
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.003	0.011	0.004	0.003	0.003	0.004	0.003	0.005	0.004	0.008
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.004	0.005	0.005	0.005	0.007	0.007	0.006	0.005	0.004	0.008
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.002	0.001	0.001	0.004	0.002	0.002	0.002	0.005
50 Burnham Avenue, Wolf Lake	0.004	0.002	0.012	0.022	0.012	0.003	0.004	0.008	0.001	0.003	0.005
55 130th Street, Calumet River	0.001	0.003	0.003	0.004	0.005	0.004	0.005	0.006	0.004	0.002	0.004
86 Burnham Avenue, Grand Calumet River	0.034	0.007	0.020	0.044	0.012	0.015	0.016	0.048	0.024	0.009	0.048
56 Indiana Avenue, Little Calumet River	0.002	0.005	0.002	0.005	0.008	0.001	0.003	0.004	0.002	0.004	0.024
76 Halsted Street, Little Calumet River	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.005
52 Wentworth Avenue, Little Calumet River	0.004	0.011	0.005	0.006	0.004	0.002	0.004	0.005	0.003	0.003	0.011
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.003	0.003	0.001	0.002	0.001	0.001	0.001	0.006
97 170th Street, Thorn Creek	0.003	0.003	0.005	0.003	0.003	0.001	0.003	0.003	0.004	0.002	ND
57 Ashland Avenue, Little Calumet River	0.003	0.004	0.009	0.003	0.004	0.002	0.009	0.004	0.002	0.002	0.003
58 Ashland Avenue, Calumet-Sag Channel	0.002	0.003	0.003	0.004	0.002	0.001	0.002	0.003	0.002	0.003	0.004
59 Cicero Avenue, Calumet-Sag Channel	0.004	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.001	0.006	0.003
43 Route 83, Calumet-Sag Channel	0.004	0.003	0.005	0.004	0.004	0.002	0.006	0.004	0.001	0.009	0.003
Des Plaines River System											
90 Route 19, Poplar Creek	0.002	0.002	0.001	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.007
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.003	ND	0.002	0.011
89 Walnut Lane, West Branch DuPage River	0.001	0.001	0.002	0.003	0.001	0.003	0.003	0.004	0.001	0.004	0.038
64 Lake Street, West Branch DuPage River	0.007	0.001	0.005	0.007	0.003	0.005	0.005	0.005	0.006	0.006	0.148
79 Higgins Road, Salt Creek	0.002	0.001	0.000	0.003	0.004	0.002	0.001	0.002	0.004	0.001	0.024
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.000	0.002	0.001	0.006	0.003	0.004	0.002	0.002	0.024
18 Devon Avenue, Salt Creek	0.002	0.000	0.000	0.002	0.002	0.006	0.002	0.005	0.002	0.011	0.029
24 Wolf Road, Salt Creek	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.003	0.004
109 Brookfield Avenue, Salt Creek	0.002	0.001	0.002	0.003	0.002	0.002	0.002	0.002	0.000	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.002	0.002
77 Elmhurst Road, Higgins Creek	0.000	0.003	0.005	0.004	0.002	0.003	0.003	0.003	0.001	0.004	0.004
78 Wille Road, Higgins Creek	0.004	0.004	0.006	0.006	0.005	0.003	0.007	0.005	0.001	0.005	0.006
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.002	0.002	0.003	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.002	0.003	0.002	0.001	0.003	0.004	0.002	0.002	0.002	0.014
17 Oakton Street, Des Plaines River	0.001	0.002	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.002
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.003	0.003	0.002	0.002	0.004	0.004	0.001	0.003	0.002
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.002	0.003	0.001	0.004	0.004	0.001	0.002	0.004
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.004	0.002	0.002	0.002	0.001	0.001	0.002	0.001
23 Willow Springs Road, Des Plaines River	0.001	0.010	0.001	0.003	0.003	0.003	0.002	0.003	0.001	0.002	0.004
29 Stephen Street, Des Plaines River	0.001	0.004	0.001	0.002	0.002	0.002	0.001	0.003	0.002	0.002	0.005
91 Material Service Road, Des Plaines River	0.000	0.001	0.001	0.002	0.004	0.003	0.002	0.003	0.002	0.003	0.003
110 Springinsguth Road, West Branch DuPage River	0.006	0.006	0.005	0.007	0.007	0.005	0.006	ND	ND	ND	ND

ND = No Data.

TABLE AII-58: ORGANIC NITROGEN MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	1.71
106 Dundee Road, West Fork North Branch Chicago River	0.89	0.92	1.11	0.98	1.19	1.08	1.01	1.56	1.38	1.71	ND
103 Golf Road, West Fork North Branch Chicago River	0.97	0.85	0.85	1.12	1.11	1.15	0.81	1.04	1.21	1.22	ND
31 Lake-Cook Road, Middle Fork North Branch	0.88	0.84	0.98	1.06	0.97	1.17	0.85	1.06	1.14	1.20	1.50
104 Glenview Road, North Branch Chicago River	0.83	0.86	0.97	1.10	1.34	1.07	0.77	1.22	1.12	1.33	ND
32 Lake-Cook Road, Skokie River	0.73	0.77	0.73	0.88	1.08	1.35	0.91	0.75	1.07	0.98	0.91
105 Frontage Road, Skokie River	0.95	0.90	0.94	1.19	1.20	1.10	0.80	1.05	1.20	1.26	ND
34 Dempster Street, North Branch Chicago River	1.34	0.91	0.96	1.07	1.23	1.06	0.85	0.95	1.22	1.38	1.29
96 Albany Avenue, North Branch Chicago River	0.86	0.76	0.88	1.05	1.16	1.16	0.78	1.01	1.15	1.48	1.19
35 Central Street, North Shore Channel	0.21	0.28	0.34	0.41	0.44	0.32	0.24	0.51	0.71	0.44	0.75
102 Oakton Street, North Shore Channel	0.88	0.56	0.74	0.75	0.86	0.77	0.57	0.98	1.11	0.73	ND
36 Touhy Avenue, North Shore Channel	1.24	0.98	1.00	1.24	1.32	1.37	1.00	1.21	1.61	1.60	1.37
101 Foster Avenue, North Shore Channel	1.04	0.89	1.06	1.18	1.20	1.43	1.14	1.19	1.55	1.52	ND
37 Wilson Avenue, North Branch Chicago River	1.04	0.89	1.03	1.04	1.20	1.31	1.06	1.27	1.45	1.57	1.45
73 Diversey Parkway, North Branch Chicago River	0.87	0.88	0.93	1.09	1.07	1.16	0.92	1.20	1.37	1.57	1.30
46 Grand Avenue, North Branch Chicago River	0.94	0.97	0.95	1.23	1.22	1.20	0.84	0.94	1.34	1.37	1.20
74 Lake Shore Drive, Chicago River	0.15	0.18	0.35	0.37	0.37	0.34	0.31	0.38	0.43	0.59	0.73
100 Wells Street, Chicago River	0.41	0.37	0.58	0.55	0.64	0.57	0.56	0.79	0.60	0.61	ND
39 Madison Street, South Branch Chicago River	0.76	0.67	0.84	0.86	0.92	0.95	0.73	1.08	1.32	1.06	1.46
108 Loomis Street, South Branch Chicago River	0.71	0.70	0.84	0.96	0.98	0.97	0.75	0.87	1.04	1.01	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.05	0.95	1.20	0.93	0.87	1.14	0.94	1.01	1.50	1.64	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.96	0.79	0.83	0.88	1.03	1.03	0.81	1.00	ND	ND	1.20
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	1.23	1.14	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.84	0.68	0.89	0.88	1.08	0.92	0.70	1.02	1.28	1.15	1.14
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.99	0.83	0.98	1.19	1.18	0.99	0.69	1.01	1.15	1.16	1.28
42 Route 83, Chicago Sanitary & Ship Canal	1.03	0.83	0.90	1.11	1.13	0.99	0.80	0.98	1.31	1.18	1.02
48 Stephen Street, Chicago Sanitary & Ship Canal	1.01	0.83	0.86	1.08	1.20	0.96	0.76	0.98	1.19	1.15	1.24
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.91	0.87	0.93	1.04	1.13	1.02	0.75	0.99	1.16	1.21	1.24
Calumet River System											
49 Ewing Avenue, Calumet River	0.07	0.16	0.16	0.25	0.32	0.15	0.09	0.12	0.29	0.30	0.40
50 Burnham Avenue, Wolf Lake	0.46	0.67	0.61	0.71	0.64	0.55	0.37	0.40	0.47	0.53	0.64
55 130th Street, Calumet River	0.18	0.43	0.47	0.61	0.58	0.47	0.20	0.33	0.61	0.64	0.46
86 Burnham Avenue, Grand Calumet River	1.45	1.29	2.95	2.35	1.76	2.65	1.25	2.12	1.94	1.64	2.73
56 Indiana Avenue, Little Calumet River	0.45	0.67	0.74	0.83	0.90	0.64	0.69	0.69	0.90	0.92	0.70
76 Halsted Street, Little Calumet River	0.93	0.90	1.07	1.04	1.10	0.98	0.70	0.89	1.20	1.23	1.17
52 Wentworth Avenue, Little Calumet River	1.13	0.98	1.01	1.22	1.46	1.25	1.09	1.26	1.35	1.46	1.75
54 Joe Orr Road, Thorn Creek	1.07	1.13	1.16	1.21	1.27	1.31	0.94	1.06	1.36	1.42	1.54
97 170th Street, Thorn Creek	1.08	1.05	0.93	1.24	1.14	1.02	0.81	1.03	1.21	1.30	ND
57 Ashland Avenue, Little Calumet River	0.92	0.84	0.90	1.16	1.28	1.23	0.77	0.90	1.24	1.35	1.16
58 Ashland Avenue, Calumet-Sag Channel	0.97	0.79	0.96	1.09	1.17	0.98	0.73	0.93	1.16	1.13	1.12
59 Cicero Avenue, Calumet-Sag Channel	0.90	0.92	0.92	1.02	1.22	1.05	0.83	1.01	1.24	1.22	1.73
43 Route 83, Calumet-Sag Channel	0.88	0.88	0.91	1.10	1.11	0.93	0.72	1.06	1.19	1.43	1.12
Des Plaines River System											
90 Route 19, Poplar Creek	0.76	0.76	0.80	0.90	1.02	0.83	0.57	0.88	0.83	0.92	1.20
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	1.69	ND	1.58	1.50
89 Walnut Lane, West Branch DuPage River	1.56	1.45	1.45	1.61	1.59	1.66	1.23	1.79	1.71	2.00	2.03
64 Lake Street, West Branch DuPage River	1.22	1.40	1.43	1.67	1.59	1.61	1.37	1.77	1.77	2.07	2.06
79 Higgins Road, Salt Creek	1.20	1.16	1.15	1.38	1.33	1.31	0.93	1.25	1.51	1.38	1.65
80 Arlington Heights Road, Salt Creek	1.10	1.16	0.98	1.13	1.26	1.01	0.88	1.37	1.53	1.45	1.60
18 Devon Avenue, Salt Creek	1.24	1.07	0.91	1.01	1.26	1.22	1.04	1.36	1.51	1.52	1.57
24 Wolf Road, Salt Creek	1.82	0.98	0.91	1.03	1.22	1.09	0.71	1.23	1.23	1.35	1.41
109 Brookfield Avenue, Salt Creek	0.81	1.00	0.89	1.00	1.38	1.07	0.70	1.27	1.23	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1.22	1.23	1.43	1.43
77 Elmhurst Road, Higgins Creek	0.72	0.79	0.75	0.79	1.18	1.17	0.56	1.16	1.20	1.16	1.28
78 Wille Road, Higgins Creek	1.06	0.95	1.22	1.25	1.43	1.24	1.01	1.16	1.44	1.60	1.95
12 Lake-Cook Road, Buffalo Creek	1.03	1.06	1.02	1.26	1.09	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.03	1.00	1.02	1.27	1.32	1.15	0.80	1.35	1.69	1.38	1.68
17 Oakton Street, Des Plaines River	0.98	1.09	1.13	1.17	1.27	1.16	0.83	1.39	1.45	1.45	1.48
19 Belmont Avenue, Des Plaines River	1.00	0.99	1.16	1.33	1.33	1.13	0.68	1.47	1.30	1.51	2.09
20 Roosevelt Road, Des Plaines River	0.99	1.05	1.08	1.19	1.26	1.06	0.84	1.48	1.25	1.42	1.43
22 Ogden Avenue, Des Plaines River	0.93	1.04	1.15	1.14	1.33	1.09	0.79	1.86	1.26	1.47	1.34
23 Willow Springs Road, Des Plaines River	0.84	1.08	1.04	1.09	1.35	1.11	0.83	1.10	1.50	1.56	1.51
29 Stephen Street, Des Plaines River	1.08	0.96	0.99	1.16	1.28	1.18	0.91	1.35	1.40	1.74	1.20
91 Material Service Road, Des Plaines River	0.97	1.00	1.06	1.12	1.36	1.17	0.90	1.45	1.44	1.51	1.49
110 Springinsguth Road, West Branch DuPage River	1.33	1.72	1.48	1.70	1.80	2.04	1.81	ND	ND	ND	ND

ND = No Data.

TABLE AII-59: NITRITE PLUS NITRATE NITROGEN MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.60	7.57
106 Dundee Road, West Fork North Branch Chicago River	8.56	6.78	5.90	4.63	3.68	7.14	9.95	5.27	4.00	5.14	ND
103 Golf Road, West Fork North Branch Chicago River	3.72	3.04	2.12	3.49	3.11	3.88	2.86	2.97	4.03	3.11	ND
31 Lake-Cook Road, Middle Fork North Branch	0.17	0.23	0.78	0.24	0.42	0.24	0.33	0.35	0.38	0.37	0.35
104 Glenview Road, North Branch Chicago River	5.88	3.95	3.31	4.52	3.92	5.93	4.79	3.81	4.67	3.22	ND
32 Lake-Cook Road, Skokie River	0.35	0.35	0.62	0.46	3.15	3.41	0.77	1.07	0.46	0.46	0.52
105 Frontage Road, Skokie River	7.07	5.15	4.03	5.58	5.33	7.00	5.74	6.42	5.83	3.87	ND
34 Dempster Street, North Branch Chicago River	4.02	3.43	3.00	3.97	3.74	5.06	4.24	5.10	4.57	2.65	4.51
96 Albany Avenue, North Branch Chicago River	4.50	3.60	2.84	4.07	3.83	4.64	4.75	4.24	4.24	3.05	5.37
35 Central Street, North Shore Channel	0.31	0.33	0.28	0.31	0.34	0.23	0.35	1.00	0.34	0.28	0.29
102 Oakton Street, North Shore Channel	3.29	2.73	2.72	3.33	3.81	2.44	2.13	2.25	3.66	1.27	ND
36 Touhy Avenue, North Shore Channel	6.53	6.47	6.76	6.53	6.01	5.24	5.37	5.90	5.58	5.57	5.59
101 Foster Avenue, North Shore Channel	7.75	7.44	7.23	7.58	7.19	5.97	5.93	6.72	6.11	6.69	ND
37 Wilson Avenue, North Branch Chicago River	7.12	6.93	6.26	7.29	6.94	6.29	6.26	6.50	5.84	5.94	6.17
73 Diversey Parkway, North Branch Chicago River	7.18	6.69	6.47	6.47	6.41	6.04	6.50	6.02	5.29	5.48	5.49
46 Grand Avenue, North Branch Chicago River	6.66	5.79	5.70	6.43	6.22	5.77	5.36	5.86	5.47	4.86	5.63
74 Lake Shore Drive, Chicago River	1.28	0.57	0.93	1.31	1.04	1.07	1.50	1.38	1.38	1.93	1.84
100 Wells Street, Chicago River	2.83	1.94	2.60	2.29	2.15	2.22	2.52	3.41	2.31	2.33	ND
39 Madison Street, South Branch Chicago River	5.05	4.58	4.31	4.41	4.03	4.37	4.68	5.19	4.37	3.61	4.28
108 Loomis Street, South Branch Chicago River	5.12	4.71	4.40	4.39	4.30	4.35	4.76	4.40	4.27	3.45	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.80	3.32	3.63	3.91	3.67	4.05	4.17	4.52	3.55	2.55	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	5.11	4.56	4.22	4.15	4.25	4.22	4.64	4.73	ND	ND	4.42
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	4.24	3.27	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.15	3.95	4.49	4.50	3.84	4.06	4.63	4.49	4.30	3.54	4.30
41 Harlem Avenue, Chicago Sanitary & Ship Canal	8.12	6.35	7.25	7.11	7.41	7.67	7.64	7.84	6.81	6.26	7.00
42 Route 83, Chicago Sanitary & Ship Canal	6.10	5.29	6.33	6.08	6.00	5.97	6.93	7.17	6.24	5.61	5.84
48 Stephen Street, Chicago Sanitary & Ship Canal	5.83	4.92	5.64	5.59	5.59	5.51	6.27	6.36	5.77	5.27	5.15
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.13
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.91	5.34	5.52	5.45	5.90	6.01	5.74	6.24	5.94	5.31	5.52
Calumet River System											
49 Ewing Avenue, Calumet River	0.30	0.33	0.39	0.37	0.38	0.37	0.36	0.35	0.50	0.46	0.38
50 Burnham Avenue, Wolf Lake	0.07	0.06	0.09	0.16	0.09	0.13	0.11	0.09	0.10	0.16	0.09
55 130th Street, Calumet River	0.42	0.55	0.65	0.68	0.71	0.60	0.52	0.48	0.57	0.67	0.56
86 Burnham Avenue, Grand Calumet River	0.29	4.45	1.96	1.81	4.68	5.19	5.00	5.91	8.56	9.06	8.48
56 Indiana Avenue, Little Calumet River	1.12	0.86	1.25	1.40	1.86	1.37	1.36	1.78	2.39	1.95	1.86
76 Halsted Street, Little Calumet River	5.38	4.56	5.16	5.17	5.91	5.33	4.79	4.57	5.36	4.80	4.32
52 Wentworth Avenue, Little Calumet River	4.34	3.83	4.85	4.18	4.25	4.27	3.57	4.16	5.39	3.32	4.18
54 Joe Orr Road, Thorn Creek	7.39	9.28	10.15	9.18	9.88	6.39	7.33	7.67	9.86	6.81	7.92
97 170th Street, Thorn Creek	4.53	5.30	6.26	5.49	5.32	5.97	5.67	6.76	7.13	4.04	ND
57 Ashland Avenue, Little Calumet River	3.41	3.22	4.22	3.25	4.08	3.67	3.06	4.01	4.35	3.07	4.31
58 Ashland Avenue, Calumet-Sag Channel	4.38	4.02	4.84	4.26	5.66	5.17	4.51	4.57	5.39	4.57	4.22
59 Cicero Avenue, Calumet-Sag Channel	4.55	3.54	5.02	3.92	5.32	5.22	4.58	4.48	5.39	4.26	4.26
43 Route 83, Calumet-Sag Channel	4.90	3.76	4.48	4.69	4.78	5.35	4.38	4.11	4.67	4.25	4.20
Des Plaines River System											
90 Route 19, Poplar Creek	0.28	0.28	0.31	0.29	0.53	0.39	0.34	0.61	0.28	0.49	0.39
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	1.74	ND	1.32	0.63
89 Walnut Lane, West Branch DuPage River	11.83	10.32	9.38	7.98	8.57	8.85	9.43	7.58	7.13	7.24	6.98
64 Lake Street, West Branch DuPage River	6.82	8.91	9.11	7.34	8.38	8.64	8.83	7.32	6.70	6.79	5.78
79 Higgins Road, Salt Creek	0.12	1.28	0.23	0.23	0.26	0.27	0.25	0.45	0.23	0.28	0.47
80 Arlington Heights Road, Salt Creek	7.81	7.72	8.84	7.10	6.77	7.98	6.01	6.22	7.69	6.92	6.27
18 Devon Avenue, Salt Creek	8.31	7.60	8.69	7.01	6.92	8.19	6.40	6.46	7.32	7.22	6.40
24 Wolf Road, Salt Creek	6.98	6.08	7.06	6.47	6.22	8.12	6.54	6.71	7.66	5.87	5.27
109 Brookfield Avenue, Salt Creek	6.17	5.18	6.20	5.56	5.67	6.98	5.78	5.42	8.16	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	5.10	5.34	4.80
77 Elmhurst Road, Higgins Creek	0.35	0.41	0.54	0.40	0.57	0.44	0.47	0.55	0.41	0.58	0.46
78 Wille Road, Higgins Creek	7.90	8.26	7.98	5.83	5.46	9.44	5.42	4.85	5.67	5.44	4.25
12 Lake-Cook Road, Buffalo Creek	0.36	0.40	0.33	0.31	0.56	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	6.45	4.68	5.70	5.26	6.56	7.69	6.53	6.79	6.05	4.94	5.24
17 Oakton Street, Des Plaines River	6.08	3.90	4.52	4.09	5.24	6.43	5.46	4.97	4.84	4.18	3.80
19 Belmont Avenue, Des Plaines River	5.71	4.27	4.59	3.95	4.86	5.93	4.69	4.56	4.62	3.87	3.54
20 Roosevelt Road, Des Plaines River	5.65	3.84	4.47	3.81	4.54	5.49	4.38	4.40	4.50	3.69	3.42
22 Ogden Avenue, Des Plaines River	5.52	4.04	4.80	3.95	4.89	5.79	4.70	5.91	5.21	3.98	3.78
23 Willow Springs Road, Des Plaines River	5.25	3.74	4.88	4.13	4.82	5.69	4.67	4.30	4.93	3.85	3.89
29 Stephen Street, Des Plaines River	5.01	3.66	5.05	4.40	5.08	6.04	4.69	5.03	5.18	3.70	3.91
91 Material Service Road, Des Plaines River	4.78	3.78	4.65	4.28	4.86	6.26	4.39	4.83	4.98	3.68	4.52
110 Springinguth Road, West Branch DuPage River	0.36	0.64	0.59	0.62	0.96	0.69	1.22	ND	ND	ND	ND

ND = No Data.

TABLE AII-60: TOTAL SOLIDS MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	1941	1948
106 Dundee Road, West Fork North Branch Chicago River	1160	988	1027	1603	900	1050	1300	645	926	941	ND
103 Golf Road, West Fork North Branch Chicago River	1052	861	863	1146	919	1232	776	790	749	741	ND
31 Lake-Cook Road, Middle Fork North Branch	845	659	809	797	794	888	646	687	693	708	770
104 Glenview Road, North Branch Chicago River	781	695	799	761	704	756	711	733	631	631	ND
32 Lake-Cook Road, Skokie River	780	637	726	823	709	858	712	682	661	737	828
105 Frontage Road, Skokie River	713	664	775	696	654	696	622	637	606	611	ND
34 Dempster Street, North Branch Chicago River	897	720	763	850	752	885	808	880	688	754	863
96 Albany Avenue, North Branch Chicago River	883	773	913	854	802	934	684	651	724	674	616
35 Central Street, North Shore Channel	255	269	328	260	229	244	250	292	321	230	363
102 Oakton Street, North Shore Channel	423	407	441	443	381	423	344	359	416	270	ND
36 Touhy Avenue, North Shore Channel	534	628	556	646	475	511	511	491	461	542	574
101 Foster Avenue, North Shore Channel	567	600	584	704	491	546	493	469	478	473	ND
37 Wilson Avenue, North Branch Chicago River	686	630	661	750	527	613	565	561	520	616	654
73 Diversey Parkway, North Branch Chicago River	638	691	703	613	522	570	543	565	514	642	654
46 Grand Avenue, North Branch Chicago River	595	592	706	674	555	597	591	610	503	602	587
74 Lake Shore Drive, Chicago River	310	244	273	365	256	274	300	312	314	403	402
100 Wells Street, Chicago River	411	330	437	409	337	369	382	409	366	378	ND
39 Madison Street, South Branch Chicago River	532	496	561	548	456	483	464	500	469	565	517
108 Loomis Street, South Branch Chicago River	591	505	549	592	497	476	459	495	476	419	ND
99 Archer Avenue, South Fork South Branch Chicago River	565	491	591	560	425	474	471	484	476	451	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	572	501	556	616	481	477	487	485	ND	ND	552
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	482	488	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	546	502	604	647	481	495	514	502	498	522	517
41 Harlem Avenue, Chicago Sanitary & Ship Canal	621	579	619	764	529	530	550	531	506	584	619
42 Route 83, Chicago Sanitary & Ship Canal	635	568	628	616	548	578	597	568	557	636	566
48 Stephen Street, Chicago Sanitary & Ship Canal	665	545	640	606	584	591	607	602	580	630	633
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	812
92 Lockport Forebay, Chicago Sanitary & Ship Canal	669	604	729	647	584	618	622	610	576	643	680
Calumet River System											
49 Ewing Avenue, Calumet River	229	234	227	242	245	223	234	241	268	302	282
50 Burnham Avenue, Wolf Lake	327	304	301	295	241	279	275	245	247	265	255
55 130th Street, Calumet River	363	396	405	395	354	300	340	334	341	395	364
86 Burnham Avenue, Grand Calumet River	570	782	794	747	865	665	787	911	874	799	934
56 Indiana Avenue, Little Calumet River	420	440	488	478	428	370	410	405	475	414	489
76 Halsted Street, Little Calumet River	586	579	714	648	590	559	579	547	547	622	697
52 Wentworth Avenue, Little Calumet River	646	611	761	679	700	612	745	828	838	706	835
54 Joe Orr Road, Thorn Creek	1383	1267	1600	1417	1490	1293	1530	979	1602	1230	1140
97 170th Street, Thorn Creek	1073	983	1187	1009	1099	1252	1165	1308	1285	861	ND
57 Ashland Avenue, Little Calumet River	829	743	853	830	877	925	885	951	913	779	965
58 Ashland Avenue, Calumet-Sag Channel	682	574	730	605	638	632	626	609	700	668	753
59 Cicero Avenue, Calumet-Sag Channel	617	577	695	622	683	625	666	633	618	656	775
43 Route 83, Calumet-Sag Channel	679	583	668	628	642	626	630	625	621	674	760
Des Plaines River System											
90 Route 19, Poplar Creek	817	666	829	784	804	766	756	662	711	733	657
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	646	ND	888	698
89 Walnut Lane, West Branch DuPage River	653	606	649	647	656	619	650	608	591	645	651
64 Lake Street, West Branch DuPage River	939	664	757	670	683	701	697	632	661	710	658
79 Higgins Road, Salt Creek	757	725	1012	974	804	1075	960	701	746	896	895
80 Arlington Heights Road, Salt Creek	828	721	965	789	788	733	679	668	666	743	749
18 Devon Avenue, Salt Creek	891	674	983	782	806	866	751	714	648	754	771
24 Wolf Road, Salt Creek	877	752	926	814	737	823	762	739	774	783	821
109 Brookfield Avenue, Salt Creek	845	715	887	786	765	809	812	707	565	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	1387	810	806
77 Elmhurst Road, Higgins Creek	1183	721	1212	650	1163	1110	1213	908	958	1120	879
78 Wille Road, Higgins Creek	760	788	833	786	712	716	707	672	764	785	733
12 Lake-Cook Road, Buffalo Creek	919	717	952	816	819	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	687	569	746	664	736	742	699	713	707	676	709
17 Oakton Street, Des Plaines River	738	571	763	657	777	779	689	663	733	711	679
19 Belmont Avenue, Des Plaines River	744	617	844	688	779	783	749	749	758	702	675
20 Roosevelt Road, Des Plaines River	747	608	834	704	771	775	732	648	774	703	681
22 Ogden Avenue, Des Plaines River	771	617	813	720	759	778	732	712	813	743	713
23 Willow Springs Road, Des Plaines River	757	621	828	743	744	773	724	670	732	724	732
29 Stephen Street, Des Plaines River	750	623	851	728	758	772	702	667	754	733	734
91 Material Service Road, Des Plaines River	762	636	827	720	771	805	731	708	788	712	798
110 Springinsguth Road, West Branch DuPage River	763	786	961	902	1173	1077	986	ND	ND	ND	ND

ND = No Data.

TABLE AII-61: TOTAL VOLATILE SOLIDS MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	138.9
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-62: TOTAL SUSPENDED SOLIDS MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.0	120.0
106 Dundee Road, West Fork North Branch Chicago River	25.1	33.3	61.5	25.5	93.4	31.5	56.1	50.7	39.8	46.8	ND
103 Golf Road, West Fork North Branch Chicago River	16.6	28.1	23.3	12.2	34.0	29.7	23.6	25.6	28.5	32.1	ND
31 Lake-Cook Road, Middle Fork North Branch	11.4	21.9	33.0	16.4	69.3	24.2	22.0	21.2	30.6	38.8	22.6
104 Glenview Road, North Branch Chicago River	11.3	19.4	28.2	14.2	50.1	18.8	22.8	30.3	25.9	22.8	ND
32 Lake-Cook Road, Skokie River	12.7	21.4	26.7	16.4	47.9	21.6	21.0	18.7	18.1	21.8	14.3
105 Frontage Road, Skokie River	13.8	20.9	24.3	18.5	23.8	18.4	25.2	19.4	21.6	22.4	ND
34 Dempster Street, North Branch Chicago River	13.4	21.4	27.5	17.2	39.8	25.3	21.8	20.9	30.2	25.8	28.6
96 Albany Avenue, North Branch Chicago River	14.3	22.3	29.7	16.8	28.3	16.8	22.5	20.3	24.4	21.6	15.0
35 Central Street, North Shore Channel	7.1	10.3	12.6	5.3	9.4	8.5	11.3	9.9	12.8	9.8	13.6
102 Oakton Street, North Shore Channel	20.8	13.8	16.5	11.8	16.5	11.6	15.2	19.7	20.5	16.6	ND
36 Touhy Avenue, North Shore Channel	7.0	8.4	10.4	5.0	11.7	10.9	15.4	9.4	15.3	8.5	10.8
101 Foster Avenue, North Shore Channel	7.7	9.3	14.8	5.7	12.3	12.2	12.7	9.6	15.4	10.4	ND
37 Wilson Avenue, North Branch Chicago River	9.9	15.9	19.0	8.3	14.3	15.0	13.9	12.3	18.5	16.8	15.0
73 Diversey Parkway, North Branch Chicago River	9.5	14.4	15.7	10.6	15.3	13.2	15.1	14.1	19.3	17.9	15.3
46 Grand Avenue, North Branch Chicago River	10.8	16.9	16.0	16.3	17.3	14.5	21.3	13.5	18.3	17.6	15.2
74 Lake Shore Drive, Chicago River	1.2	4.7	5.8	5.6	7.1	5.3	4.9	2.5	4.0	4.8	12.8
100 Wells Street, Chicago River	4.1	5.7	9.0	4.7	9.0	4.5	6.3	6.4	6.3	10.0	ND
39 Madison Street, South Branch Chicago River	9.5	12.6	13.8	18.3	14.5	8.7	14.0	11.6	18.4	16.8	15.2
108 Loomis Street, South Branch Chicago River	11.4	13.1	17.7	18.5	16.2	12.6	11.8	12.5	12.2	17.9	ND
99 Archer Avenue, South Fork South Branch Chicago River	11.7	12.0	14.8	10.1	12.4	12.5	13.2	11.8	14.4	19.8	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	12.0	15.4	15.6	17.9	17.8	12.7	14.6	13.7	ND	ND	19.1
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	19.3	19.6	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	12.8	16.8	16.8	16.6	19.2	13.0	17.8	13.9	15.1	20.8	16.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.7	9.7	10.3	15.3	12.3	9.6	8.5	8.1	11.6	10.8	11.5
42 Route 83, Chicago Sanitary & Ship Canal	6.8	10.7	13.3	21.8	11.7	7.5	9.0	10.6	11.5	12.1	8.8
48 Stephen Street, Chicago Sanitary & Ship Canal	9.3	14.0	19.7	23.8	18.2	15.0	15.8	16.2	13.4	15.2	16.8
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.2
92 Lockport Forebay, Chicago Sanitary & Ship Canal	10.4	15.8	22.6	12.9	15.8	14.5	14.6	14.7	15.1	15.5	15.6
Calumet River System											
49 Ewing Avenue, Calumet River	4.8	5.0	5.7	5.8	7.3	6.7	9.7	8.7	7.1	11.3	12.6
50 Burnham Avenue, Wolf Lake	4.3	6.6	5.3	5.2	6.1	5.3	5.4	5.8	3.6	7.4	4.7
55 130th Street, Calumet River	5.1	8.4	7.7	6.8	8.5	6.5	7.7	9.3	12.5	20.7	14.0
86 Burnham Avenue, Grand Calumet River	14.4	13.8	23.9	18.5	21.0	49.9	18.9	17.0	16.2	16.9	23.5
56 Indiana Avenue, Little Calumet River	12.9	19.3	33.7	21.6	24.4	25.0	22.0	29.9	27.8	29.6	22.2
76 Halsted Street, Little Calumet River	7.6	12.5	18.8	10.6	12.9	11.3	14.8	10.5	15.2	15.4	11.6
52 Wentworth Avenue, Little Calumet River	74.3	51.0	30.5	44.7	44.1	37.9	32.4	28.7	30.5	53.5	55.4
54 Joe Orr Road, Thorn Creek	27.4	20.1	8.0	7.1	9.9	115.4	17.6	42.0	7.4	11.6	24.1
97 170th Street, Thorn Creek	53.4	40.3	23.8	35.5	32.4	55.4	40.5	30.2	24.1	38.3	ND
57 Ashland Avenue, Little Calumet River	55.1	35.3	19.9	34.6	26.5	45.7	30.5	33.0	23.0	39.4	28.5
58 Ashland Avenue, Calumet-Sag Channel	25.3	17.4	17.7	17.5	16.6	15.0	18.8	24.4	17.3	27.7	17.9
59 Cicero Avenue, Calumet-Sag Channel	18.5	22.0	22.8	20.3	24.9	14.3	20.3	24.0	21.1	20.7	19.8
43 Route 83, Calumet-Sag Channel	14.0	23.5	17.4	16.6	20.1	15.5	20.1	35.9	25.9	35.8	28.2
Des Plaines River System											
90 Route 19, Poplar Creek	17.6	14.1	21.9	13.9	25.2	15.9	15.3	30.4	18.9	18.2	36.4
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	36.0	ND	30.3	40.0
89 Walnut Lane, West Branch DuPage River	20.1	11.8	21.6	15.3	10.8	12.3	15.4	18.3	16.1	18.8	23.5
64 Lake Street, West Branch DuPage River	26.7	26.3	34.5	27.5	34.0	38.5	32.5	40.3	33.2	42.0	45.9
79 Higgins Road, Salt Creek	31.4	24.4	32.1	33.0	31.2	41.4	25.5	44.6	38.0	33.9	41.2
80 Arlington Heights Road, Salt Creek	8.5	13.8	8.4	10.2	10.2	9.8	9.0	8.8	8.3	11.3	11.7
18 Devon Avenue, Salt Creek	11.1	16.7	12.4	16.3	14.1	14.2	19.0	19.9	15.7	23.1	27.4
24 Wolf Road, Salt Creek	23.5	24.1	31.6	30.6	39.4	28.9	23.1	43.3	23.4	31.0	37.6
109 Brookfield Avenue, Salt Creek	18.3	25.5	30.1	25.1	42.7	25.1	19.9	56.1	18.7	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	20.7	29.3	40.6
77 Elmhurst Road, Higgins Creek	21.0	18.8	50.8	26.4	45.3	29.3	29.2	34.8	36.0	28.2	39.3
78 Wille Road, Higgins Creek	2.4	7.0	8.8	6.5	5.4	3.4	7.6	5.9	7.0	5.5	12.4
12 Lake-Cook Road, Buffalo Creek	27.7	27.1	29.3	41.1	29.4	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	17.4	20.1	23.3	21.8	27.3	24.0	23.2	36.8	28.7	29.8	33.8
17 Oakton Street, Des Plaines River	16.8	22.3	26.1	22.9	26.1	17.9	23.0	42.1	28.8	29.8	45.9
19 Belmont Avenue, Des Plaines River	18.5	23.0	31.6	26.5	29.4	23.2	22.3	41.8	28.5	26.3	32.2
20 Roosevelt Road, Des Plaines River	22.0	24.3	27.6	26.5	26.9	23.8	21.7	43.4	31.0	26.6	31.0
22 Ogden Avenue, Des Plaines River	20.5	27.6	29.5	29.7	36.3	30.6	21.3	52.6	23.2	27.3	34.3
23 Willow Springs Road, Des Plaines River	17.4	26.2	27.5	23.9	27.8	22.3	24.0	33.4	24.0	33.2	43.9
29 Stephen Street, Des Plaines River	23.6	29.5	28.6	22.8	29.3	29.8	26.5	41.6	28.3	44.1	42.5
91 Material Service Road, Des Plaines River	23.1	26.3	26.4	25.9	27.7	35.0	28.2	46.1	30.1	45.1	38.7
110 Springinguth Road, West Branch DuPage River	11.0	22.8	29.1	22.3	17.9	30.5	49.2	ND	ND	ND	ND

ND = No Data.

**TABLE AII-63: VOLATILE SUSPENDED SOLIDS MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.00	19.00
106 Dundee Road, West Fork North Branch Chicago River	3.60	7.55	11.36	2.25	13.60	6.75	9.38	13.33	6.50	7.60	ND
103 Golf Road, West Fork North Branch Chicago River	2.40	7.82	5.80	2.91	7.42	7.40	7.30	5.63	5.64	6.20	ND
31 Lake-Cook Road, Middle Fork North Branch	1.56	4.50	6.40	3.90	11.91	5.10	4.30	4.78	6.00	6.36	4.60
104 Glenview Road, North Branch Chicago River	1.22	5.58	6.17	3.55	11.67	5.50	5.42	7.33	5.22	5.30	ND
32 Lake-Cook Road, Skokie River	1.33	4.80	6.00	3.20	9.08	6.00	5.20	4.56	4.70	4.45	3.50
105 Frontage Road, Skokie River	1.33	6.75	5.67	4.64	8.50	5.75	5.50	5.33	4.58	5.60	ND
34 Dempster Street, North Branch Chicago River	1.88	5.92	5.91	2.55	11.75	6.55	5.25	4.91	6.08	5.67	6.45
96 Albany Avenue, North Branch Chicago River	1.82	4.83	5.50	3.73	6.25	5.55	5.27	5.10	5.33	6.33	4.50
35 Central Street, North Shore Channel	1.13	2.89	2.56	2.00	3.11	3.38	1.67	2.56	3.78	2.22	3.56
102 Oakton Street, North Shore Channel	3.18	4.09	4.27	3.75	5.33	3.58	3.75	4.10	5.27	3.00	ND
36 Touhy Avenue, North Shore Channel	1.45	4.44	4.58	2.58	5.08	4.92	4.92	4.33	5.08	3.83	4.50
101 Foster Avenue, North Shore Channel	0.83	4.50	6.00	1.83	5.33	4.23	4.75	3.33	5.50	3.60	ND
37 Wilson Avenue, North Branch Chicago River	0.67	4.83	5.08	3.08	5.58	4.75	3.92	3.83	4.75	4.92	4.83
73 Diversey Parkway, North Branch Chicago River	0.00	3.33	3.92	3.25	4.83	3.50	3.67	3.83	5.08	5.08	3.75
46 Grand Avenue, North Branch Chicago River	0.92	3.67	4.33	4.27	5.83	3.92	4.58	3.42	4.50	4.25	3.75
74 Lake Shore Drive, Chicago River	0.00	0.67	1.70	1.55	4.82	1.40	0.33	0.90	1.25	1.42	4.67
100 Wells Street, Chicago River	0.00	1.55	2.83	1.45	6.83	1.42	0.67	2.17	1.67	3.00	ND
39 Madison Street, South Branch Chicago River	0.92	3.73	3.42	3.36	6.92	1.50	1.92	3.09	4.25	3.33	3.75
108 Loomis Street, South Branch Chicago River	2.00	3.42	4.36	3.50	6.83	2.60	2.50	2.92	2.33	3.89	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.40	5.91	6.75	2.55	6.29	4.36	4.75	3.83	4.25	7.70	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	2.25	4.55	4.17	3.42	8.00	3.00	3.00	3.33	ND	ND	4.11
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	4.50	4.40	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.92	4.75	4.75	4.08	7.00	2.50	4.17	3.67	3.00	5.00	3.67
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.89	4.08	3.67	3.67	5.83	3.50	1.67	2.50	2.92	3.17	3.58
42 Route 83, Chicago Sanitary & Ship Canal	0.67	3.80	3.25	3.91	6.67	2.09	1.83	3.00	2.42	3.17	2.36
48 Stephen Street, Chicago Sanitary & Ship Canal	0.58	4.40	4.92	5.36	7.50	2.91	2.17	3.58	2.58	3.42	3.82
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.71
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.08	3.82	4.96	3.00	4.88	3.21	2.94	3.69	3.48	3.57	3.68
Calumet River System											
49 Ewing Avenue, Calumet River	0.00	1.00	0.33	1.20	2.09	3.09	0.40	1.25	1.42	1.58	2.00
50 Burnham Avenue, Wolf Lake	1.27	3.50	2.42	2.91	4.00	2.50	1.58	2.83	1.58	3.45	2.08
55 130th Street, Calumet River	0.00	1.78	1.67	1.90	2.55	2.27	0.45	1.70	2.67	4.09	2.73
86 Burnham Avenue, Grand Calumet River	8.00	4.40	12.60	8.70	9.18	20.90	8.67	8.20	7.09	5.90	10.00
56 Indiana Avenue, Little Calumet River	1.10	3.13	6.00	3.56	5.27	4.67	3.67	5.00	4.58	5.38	3.92
76 Halsted Street, Little Calumet River	0.40	3.82	5.33	2.27	4.91	3.58	2.00	2.55	3.67	4.25	2.75
52 Wentworth Avenue, Little Calumet River	8.82	8.50	6.60	6.82	7.27	7.55	5.89	5.50	5.45	9.55	9.91
54 Joe Orr Road, Thorn Creek	2.44	4.44	1.67	1.70	2.89	19.13	2.71	6.67	2.71	2.58	4.83
97 170th Street, Thorn Creek	7.55	6.67	4.18	4.09	5.82	7.64	6.45	5.60	4.17	5.90	ND
57 Ashland Avenue, Little Calumet River	6.70	6.56	4.80	5.18	6.18	9.00	5.10	6.30	4.75	6.70	4.91
58 Ashland Avenue, Calumet-Sag Channel	3.00	3.73	4.75	3.09	5.73	2.58	3.92	5.00	3.58	5.83	3.50
59 Cicero Avenue, Calumet-Sag Channel	2.30	4.20	4.45	3.64	6.55	3.00	3.08	4.91	4.25	4.17	3.25
43 Route 83, Calumet-Sag Channel	1.55	3.80	3.70	4.00	4.36	4.55	4.30	5.64	5.50	6.25	5.00
Des Plaines River System											
90 Route 19, Poplar Creek	3.50	3.64	4.73	3.36	6.17	4.91	3.60	6.20	4.78	4.45	6.29
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	8.00	ND	4.00	9.00
89 Walnut Lane, West Branch DuPage River	5.42	5.42	5.75	3.67	4.33	5.58	5.18	6.36	4.58	4.75	6.42
64 Lake Street, West Branch DuPage River	6.67	7.58	8.42	8.33	8.58	10.08	8.09	8.75	7.33	9.00	10.55
79 Higgins Road, Salt Creek	8.25	7.50	8.78	9.70	9.00	11.11	8.50	9.56	9.38	9.30	10.10
80 Arlington Heights Road, Salt Creek	2.58	4.83	3.25	3.17	5.08	4.75	3.55	3.67	3.30	3.75	3.67
18 Devon Avenue, Salt Creek	2.20	5.18	4.25	5.83	6.00	4.50	4.82	5.50	4.10	5.00	5.33
24 Wolf Road, Salt Creek	3.90	4.92	6.08	6.91	9.42	6.58	5.20	8.00	5.25	5.50	6.60
109 Brookfield Avenue, Salt Creek	2.55	5.64	6.00	6.00	9.25	5.17	5.80	9.80	3.67	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	5.00	4.75	6.80
77 Elmhurst Road, Higgins Creek	6.00	7.25	9.80	5.20	11.00	9.50	7.60	7.00	6.83	6.36	8.60
78 Wille Road, Higgins Creek	1.33	2.92	3.50	3.25	3.17	1.17	3.40	2.50	2.58	2.75	4.00
12 Lake-Cook Road, Buffalo Creek	5.14	6.33	6.91	8.67	7.44	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	3.27	5.42	6.08	5.50	8.33	5.75	6.80	7.58	7.50	6.92	6.50
17 Oakton Street, Des Plaines River	3.45	5.45	7.18	5.73	7.58	6.08	5.30	8.70	7.09	6.17	8.80
19 Belmont Avenue, Des Plaines River	3.36	5.83	6.58	6.82	8.17	5.83	5.50	7.75	5.75	5.83	5.60
20 Roosevelt Road, Des Plaines River	4.00	5.45	6.58	5.36	8.00	7.00	5.40	7.86	6.08	5.75	5.70
22 Ogden Avenue, Des Plaines River	3.33	6.27	6.36	7.09	8.75	7.00	4.70	11.00	5.33	5.92	6.10
23 Willow Springs Road, Des Plaines River	3.45	6.45	6.18	5.73	7.75	6.17	5.90	7.00	6.00	6.75	7.80
29 Stephen Street, Des Plaines River	5.08	7.45	6.17	4.64	8.83	7.75	7.20	8.82	6.58	9.50	7.30
91 Material Service Road, Des Plaines River	5.17	7.75	6.08	5.64	7.50	8.92	8.00	9.83	7.50	8.98	8.06
110 Springinsguth Road, West Branch DuPage River	3.00	7.22	9.45	8.40	5.91	13.55	10.44	ND	ND	ND	ND

ND = No Data.

**TABLE AII-64: TOTAL DISSOLVED SOLIDS MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	1870	1828
106 Dundee Road, West Fork North Branch Chicago River	1135	955	965	1577	807	1018	1244	595	886	894	ND
103 Golf Road, West Fork North Branch Chicago River	1036	833	840	1134	885	1202	753	764	721	709	ND
31 Lake-Cook Road, Middle Fork North Branch	834	637	776	780	724	864	624	666	663	669	747
104 Glenview Road, North Branch Chicago River	770	676	771	747	654	737	689	703	605	608	ND
32 Lake-Cook Road, Skokie River	767	615	699	806	661	836	691	664	643	715	814
105 Frontage Road, Skokie River	699	643	750	677	630	677	596	617	584	589	ND
34 Dempster Street, North Branch Chicago River	883	699	735	832	712	860	786	859	658	729	835
96 Albany Avenue, North Branch Chicago River	868	751	883	837	773	917	662	630	700	652	601
35 Central Street, North Shore Channel	248	258	316	254	219	236	239	282	309	220	350
102 Oakton Street, North Shore Channel	403	394	425	432	364	412	329	339	395	254	ND
36 Touhy Avenue, North Shore Channel	527	614	545	641	464	500	496	481	446	534	563
101 Foster Avenue, North Shore Channel	559	591	569	698	479	534	480	460	463	463	ND
37 Wilson Avenue, North Branch Chicago River	676	614	642	741	513	598	551	548	501	600	639
73 Diversey Parkway, North Branch Chicago River	628	676	687	603	507	557	528	551	495	624	639
46 Grand Avenue, North Branch Chicago River	584	575	690	658	538	582	570	597	485	585	572
74 Lake Shore Drive, Chicago River	309	240	267	359	249	269	295	309	310	398	389
100 Wells Street, Chicago River	407	324	428	404	328	364	376	403	360	368	ND
39 Madison Street, South Branch Chicago River	522	483	547	530	441	474	450	488	450	548	502
108 Loomis Street, South Branch Chicago River	580	492	531	573	481	463	448	482	463	401	ND
99 Archer Avenue, South Fork South Branch Chicago River	553	479	576	549	413	461	458	473	462	431	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	560	485	541	599	463	464	472	471	ND	ND	533
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	463	469	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	533	485	587	630	462	482	496	488	483	502	501
41 Harlem Avenue, Chicago Sanitary & Ship Canal	614	570	608	749	517	520	541	523	495	574	607
42 Route 83, Chicago Sanitary & Ship Canal	629	557	615	594	536	571	588	558	546	624	558
48 Stephen Street, Chicago Sanitary & Ship Canal	656	531	620	583	565	576	591	586	566	615	616
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	792
92 Lockport Forebay, Chicago Sanitary & Ship Canal	658	588	706	634	568	604	602	595	561	628	665
Calumet River System											
49 Ewing Avenue, Calumet River	224	229	221	236	237	217	225	232	261	290	269
50 Burnham Avenue, Wolf Lake	323	297	295	289	235	273	269	239	243	258	250
55 130th Street, Calumet River	357	387	397	388	345	293	332	325	329	374	350
86 Burnham Avenue, Grand Calumet River	556	768	770	728	844	615	768	894	858	782	911
56 Indiana Avenue, Little Calumet River	407	421	454	457	404	345	388	375	447	385	466
76 Halsted Street, Little Calumet River	579	566	695	637	577	548	564	536	532	606	685
52 Wentworth Avenue, Little Calumet River	572	560	731	634	656	574	712	800	808	653	780
54 Joe Orr Road, Thorn Creek	1356	1247	1592	1409	1480	1178	1512	937	1594	1218	1116
97 170th Street, Thorn Creek	1020	943	1163	974	1066	1196	1124	1277	1261	822	ND
57 Ashland Avenue, Little Calumet River	774	708	833	795	851	879	854	918	890	739	937
58 Ashland Avenue, Calumet-Sag Channel	657	557	712	588	621	617	608	585	683	641	735
59 Cicero Avenue, Calumet-Sag Channel	598	555	672	602	658	611	646	609	597	636	756
43 Route 83, Calumet-Sag Channel	665	559	651	612	622	610	610	589	595	638	732
Des Plaines River System											
90 Route 19, Poplar Creek	799	652	807	770	779	750	740	631	692	715	620
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	610	ND	858	658
89 Walnut Lane, West Branch DuPage River	633	594	627	631	645	607	635	590	575	626	628
64 Lake Street, West Branch DuPage River	912	638	723	643	649	663	654	592	627	668	612
79 Higgins Road, Salt Creek	726	701	980	941	773	1034	903	656	708	862	854
80 Arlington Heights Road, Salt Creek	820	708	957	779	778	723	663	659	658	732	738
18 Devon Avenue, Salt Creek	880	657	970	766	792	851	721	694	632	731	743
24 Wolf Road, Salt Creek	853	728	895	783	698	794	723	696	750	752	784
109 Brookfield Avenue, Salt Creek	827	690	857	761	722	784	772	650	547	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	1366	780	765
77 Elmhurst Road, Higgins Creek	1162	703	1161	623	1118	1081	1040	873	922	1092	840
78 Wille Road, Higgins Creek	758	781	824	780	706	713	688	666	757	780	721
12 Lake-Cook Road, Buffalo Creek	891	690	923	775	790	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	670	549	723	642	709	718	664	677	678	646	675
17 Oakton Street, Des Plaines River	721	549	737	634	751	761	651	620	704	681	633
19 Belmont Avenue, Des Plaines River	726	594	812	662	749	760	707	708	730	676	643
20 Roosevelt Road, Des Plaines River	725	584	807	677	744	752	691	605	743	676	650
22 Ogden Avenue, Des Plaines River	750	590	783	690	723	747	691	660	790	716	679
23 Willow Springs Road, Des Plaines River	739	595	801	719	716	751	675	637	708	690	688
29 Stephen Street, Des Plaines River	727	593	822	705	729	743	648	625	726	689	692
91 Material Service Road, Des Plaines River	739	610	801	694	743	770	679	662	758	667	759
110 Springinguth Road, West Branch DuPage River	752	763	932	879	1155	1047	915	ND	ND	ND	ND

ND = No Data.

TABLE AII-65: PHENOLS MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0	10.0
106 Dundee Road, West Fork North Branch Chicago River	0.5	0.5	0.0	1.0	0.8	6.8	8.9	9.0	5.5	18.2	ND
103 Golf Road, West Fork North Branch Chicago River	0.6	0.5	0.0	1.7	1.1	9.9	8.7	5.6	7.6	14.1	ND
31 Lake-Cook Road, Middle Fork North Branch	0.0	0.0	0.0	1.5	0.3	11.4	11.5	9.4	11.6	16.5	24.5
104 Glenview Road, North Branch Chicago River	0.0	0.0	0.0	0.0	0.3	6.3	7.6	4.3	5.2	11.4	ND
32 Lake-Cook Road, Skokie River	0.6	0.0	0.0	0.3	0.3	8.0	11.6	7.9	9.1	15.3	19.6
105 Frontage Road, Skokie River	0.6	0.4	0.0	1.1	1.2	5.6	5.7	3.2	5.4	10.3	ND
34 Dempster Street, North Branch Chicago River	0.0	0.0	0.0	0.9	0.3	8.4	6.8	5.5	7.3	11.7	18.0
96 Albany Avenue, North Branch Chicago River	0.0	0.0	0.0	0.0	0.3	8.3	8.9	6.4	6.6	13.1	14.5
35 Central Street, North Shore Channel	0.0	0.0	0.0	0.3	0.3	4.3	6.6	2.8	4.5	4.6	13.3
102 Oakton Street, North Shore Channel	0.0	0.0	0.0	1.5	1.0	7.1	7.8	6.5	6.0	7.9	ND
36 Touhy Avenue, North Shore Channel	0.0	0.0	0.0	1.0	0.5	9.1	9.4	7.3	9.0	14.3	22.2
101 Foster Avenue, North Shore Channel	0.0	0.0	0.0	0.5	1.0	9.8	9.8	6.2	9.0	12.2	ND
37 Wilson Avenue, North Branch Chicago River	0.0	0.0	0.0	1.2	1.0	8.5	8.9	6.5	8.3	13.3	20.6
73 Diversey Parkway, North Branch Chicago River	0.0	0.0	0.0	1.1	1.0	10.8	8.4	6.8	8.6	13.8	20.8
46 Grand Avenue, North Branch Chicago River	0.0	0.0	0.0	0.8	1.3	9.8	10.3	5.3	8.5	15.0	21.4
74 Lake Shore Drive, Chicago River	0.0	0.0	0.0	0.4	0.0	4.3	4.4	3.0	2.7	7.3	15.6
100 Wells Street, Chicago River	0.0	0.0	0.0	0.6	0.3	4.8	7.6	3.8	3.8	11.9	ND
39 Madison Street, South Branch Chicago River	0.0	0.0	0.0	0.5	0.0	7.6	9.1	7.6	6.7	10.9	23.0
108 Loomis Street, South Branch Chicago River	0.0	0.0	0.0	1.0	0.5	7.7	8.6	5.5	7.4	9.6	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.7	0.5	0.0	0.3	0.7	8.7	9.5	5.8	9.5	17.7	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.5	0.0	0.0	0.6	0.7	8.3	8.3	5.6	ND	ND	23.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	7.5	11.8	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.0	0.0	0.0	1.5	0.9	6.8	7.9	5.0	7.7	11.7	17.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.7	0.0	0.0	0.8	0.5	6.6	8.5	5.6	6.8	14.8	18.5
42 Route 83, Chicago Sanitary & Ship Canal	0.5	0.0	0.0	0.5	0.3	9.5	9.7	6.2	8.7	13.4	19.1
48 Stephen Street, Chicago Sanitary & Ship Canal	0.5	0.0	0.0	0.0	0.0	9.2	9.0	6.6	8.3	12.8	21.8
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.3
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.2	0.0	0.0	1.2	0.8	8.8	8.6	5.7	7.5	10.9	18.5
Calumet River System											
49 Ewing Avenue, Calumet River	0.0	0.0	0.0	0.4	0.9	2.0	2.7	1.6	1.7	3.3	7.3
50 Burnham Avenue, Wolf Lake	0.0	0.0	0.0	0.0	0.0	5.8	7.4	3.2	3.8	5.0	11.6
55 130th Street, Calumet River	0.0	0.0	0.0	0.0	0.4	4.9	3.6	1.1	1.8	5.0	10.5
86 Burnham Avenue, Grand Calumet River	0.7	1.4	1.1	2.3	1.9	16.1	11.9	7.6	6.1	8.0	22.8
56 Indiana Avenue, Little Calumet River	0.0	0.0	0.0	1.0	0.3	5.0	5.6	2.5	4.1	6.0	13.1
76 Halsted Street, Little Calumet River	0.0	0.0	0.0	1.6	0.9	9.9	8.9	7.2	9.4	11.4	24.1
52 Wentworth Avenue, Little Calumet River	0.0	0.0	0.0	1.3	0.8	14.4	22.4	12.6	16.5	12.5	21.5
54 Joe Orr Road, Thorn Creek	0.0	0.0	0.0	1.2	0.0	13.3	9.3	6.0	9.0	10.2	19.7
97 170th Street, Thorn Creek	0.0	0.0	0.0	1.0	0.0	9.0	9.7	6.2	8.0	7.8	ND
57 Ashland Avenue, Little Calumet River	0.6	0.0	0.0	0.4	0.3	10.2	10.9	7.5	8.4	11.9	19.9
58 Ashland Avenue, Calumet-Sag Channel	0.5	0.0	0.0	1.1	0.3	9.1	9.3	7.8	8.8	11.8	21.1
59 Cicero Avenue, Calumet-Sag Channel	5.9	0.0	0.0	0.3	0.5	10.5	10.3	7.9	9.3	13.5	20.6
43 Route 83, Calumet-Sag Channel	0.0	0.0	0.0	0.0	0.4	10.0	9.7	5.5	10.2	11.5	19.1
Des Plaines River System											
90 Route 19, Poplar Creek	0.6	0.0	0.0	1.0	0.0	10.4	8.6	6.5	5.3	10.4	17.3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	9.0	ND	18.0	20.1
89 Walnut Lane, West Branch DuPage River	0.0	0.0	0.0	1.0	0.0	9.5	13.3	8.8	7.8	17.1	19.7
64 Lake Street, West Branch DuPage River	0.0	0.0	0.0	0.6	0.3	8.2	9.1	7.9	6.3	15.8	22.5
79 Higgins Road, Salt Creek	0.0	0.0	0.0	1.5	0.4	10.6	8.4	7.9	6.1	13.4	17.1
80 Arlington Heights Road, Salt Creek	0.0	0.0	0.0	0.6	0.5	6.0	9.3	5.0	6.6	15.3	18.2
18 Devon Avenue, Salt Creek	0.0	0.0	0.0	1.2	0.0	5.5	10.4	6.3	5.1	16.2	17.6
24 Wolf Road, Salt Creek	0.6	0.4	0.4	0.6	1.2	5.8	6.7	6.0	5.7	12.4	17.1
109 Brookfield Avenue, Salt Creek	0.0	0.0	0.0	0.5	0.9	8.6	7.6	5.4	5.7	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	4.7	11.9	20.1
77 Elmhurst Road, Higgins Creek	0.0	0.0	0.0	0.0	1.9	11.3	13.0	12.2	5.8	14.9	28.4
78 Wille Road, Higgins Creek	0.6	0.0	0.4	1.6	1.0	8.1	15.5	8.8	11.3	19.0	26.6
12 Lake-Cook Road, Buffalo Creek	0.0	0.0	0.0	0.3	0.9	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.5	0.0	0.5	0.7	0.0	6.2	7.6	4.4	4.6	11.4	18.3
17 Oakton Street, Des Plaines River	0.0	0.0	0.0	1.1	0.3	6.8	7.9	5.0	6.4	11.5	19.6
19 Belmont Avenue, Des Plaines River	0.0	0.0	0.0	0.6	1.3	6.5	9.5	5.8	5.3	11.8	20.3
20 Roosevelt Road, Des Plaines River	0.0	0.0	0.5	0.5	0.6	8.4	9.7	6.0	5.3	11.3	19.7
22 Ogden Avenue, Des Plaines River	0.0	0.0	0.0	0.6	0.7	7.6	8.8	7.6	5.0	12.5	19.6
23 Willow Springs Road, Des Plaines River	0.0	0.0	0.6	0.7	2.1	7.6	8.7	4.5	5.6	11.5	16.9
29 Stephen Street, Des Plaines River	0.4	0.0	0.4	0.3	0.9	6.1	8.4	5.3	5.2	14.8	16.3
91 Material Service Road, Des Plaines River	0.0	0.0	0.0	0.3	1.3	10.5	7.5	5.5	5.1	9.9	18.2
110 Springinguth Road, West Branch DuPage River	0.0	0.0	0.0	1.2	1.3	15.7	18.0	ND	ND	ND	ND

ND = No Data.

**TABLE AII-66: TOTAL NONYLPHENOLS MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diverser Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.65	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.67	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	0.00	0.35	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.00	0.00	0.22	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.00	0.00	0.60	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.00	0.00	0.25	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.00	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-67: SULFATE MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.5	77.0
106 Dundee Road, West Fork North Branch Chicago River	49.2	47.4	52.9	46.6	53.3	63.0	76.5	64.3	61.8	67.2	ND
103 Golf Road, West Fork North Branch Chicago River	58.0	56.2	63.1	68.9	77.9	75.4	75.3	76.4	64.5	61.8	ND
31 Lake-Cook Road, Middle Fork North Branch	46.7	45.1	52.7	57.1	68.0	86.3	76.3	76.4	72.3	69.0	72.0
104 Glenview Road, North Branch Chicago River	54.4	53.0	62.7	60.3	66.8	65.1	69.8	67.8	64.1	64.8	ND
32 Lake-Cook Road, Skokie River	50.9	51.0	60.0	53.3	61.6	65.4	76.6	80.4	62.3	70.4	74.4
105 Frontage Road, Skokie River	54.2	55.0	62.0	52.7	67.8	63.4	67.4	64.9	64.8	62.3	ND
34 Dempster Street, North Branch Chicago River	54.6	51.9	60.6	60.3	71.5	68.6	72.4	71.6	61.9	63.2	76.1
96 Albany Avenue, North Branch Chicago River	53.0	54.3	63.6	59.7	73.1	68.3	72.3	74.0	69.0	65.8	59.1
35 Central Street, North Shore Channel	25.3	27.2	34.6	30.4	28.7	26.8	33.8	36.6	34.9	25.6	32.5
102 Oakton Street, North Shore Channel	36.7	38.0	44.1	39.9	43.8	40.9	41.7	43.0	43.3	28.2	ND
36 Touhy Avenue, North Shore Channel	41.9	47.9	52.1	49.1	50.8	46.6	51.7	53.4	53.3	79.8	53.8
101 Foster Avenue, North Shore Channel	43.2	46.8	52.9	50.6	51.3	59.6	56.8	53.2	50.6	49.0	ND
37 Wilson Avenue, North Branch Chicago River	47.3	46.7	54.8	54.1	58.0	50.8	59.9	57.3	57.1	57.3	53.8
73 Diversy Parkway, North Branch Chicago River	47.3	47.9	56.1	52.3	55.8	50.9	62.2	59.0	55.6	58.2	55.8
46 Grand Avenue, North Branch Chicago River	44.2	45.8	54.9	53.6	57.4	54.1	60.6	58.9	56.3	56.3	55.4
74 Lake Shore Drive, Chicago River	25.8	26.3	30.0	31.7	36.6	29.7	36.8	35.6	32.0	32.0	39.3
100 Wells Street, Chicago River	31.2	32.0	40.9	36.8	39.1	35.4	40.5	44.3	36.6	36.0	ND
39 Madison Street, South Branch Chicago River	39.8	42.1	47.8	44.9	49.6	47.6	51.8	54.8	49.1	45.8	50.4
108 Loomis Street, South Branch Chicago River	41.4	43.9	52.2	47.2	52.2	49.8	55.2	53.2	49.3	43.3	ND
99 Archer Avenue, South Fork South Branch Chicago River	44.0	41.8	55.1	46.1	51.1	56.0	52.8	55.1	51.6	51.8	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	41.2	43.1	49.2	46.3	52.0	49.5	53.0	53.1	ND	ND	51.9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	49.6	43.9	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	43.0	41.9	53.6	48.5	51.9	50.1	55.4	52.5	54.3	46.8	51.6
41 Harlem Avenue, Chicago Sanitary & Ship Canal	61.0	56.2	69.4	67.3	72.1	70.7	76.4	72.9	69.5	63.6	72.3
42 Route 83, Chicago Sanitary & Ship Canal	65.0	60.9	67.5	72.8	75.1	74.2	80.8	82.5	78.5	67.1	70.8
48 Stephen Street, Chicago Sanitary & Ship Canal	75.5	65.8	78.7	83.8	89.6	85.6	91.7	94.6	88.1	88.9	92.3
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	82.5	76.2	86.0	85.7	86.9	88.1	89.8	96.7	88.7	91.1	96.2
Calumet River System											
49 Ewing Avenue, Calumet River	24.5	26.6	30.2	32.1	29.9	27.0	28.3	29.2	28.4	28.3	29.8
50 Burnham Avenue, Wolf Lake	41.4	47.5	47.8	42.6	39.4	41.0	43.5	35.2	36.6	38.9	38.6
55 130th Street, Calumet River	52.7	61.9	63.2	82.7	60.7	55.2	57.2	54.2	54.7	63.3	49.8
86 Burnham Avenue, Grand Calumet River	96.1	145.6	162.3	196.1	262.4	176.9	204.9	260.1	219.9	184.3	177.2
56 Indiana Avenue, Little Calumet River	61.2	64.4	72.4	90.1	74.7	64.1	70.4	74.3	78.9	73.4	77.8
76 Halsted Street, Little Calumet River	75.2	76.4	97.7	87.7	91.0	91.3	91.6	100.7	91.2	113.3	143.1
52 Wentworth Avenue, Little Calumet River	96.3	98.1	134.9	118.4	130.0	116.2	143.9	180.2	146.0	122.5	145.1
54 Joe Orr Road, Thorn Creek	509.8	506.7	716.6	596.3	620.0	494.6	620.8	460.4	724.5	521.3	342.4
97 170th Street, Thorn Creek	318.3	298.3	422.5	352.0	419.3	465.3	403.1	498.3	445.9	255.8	ND
57 Ashland Avenue, Little Calumet River	182.2	166.0	270.8	223.0	241.5	289.4	235.0	293.1	241.9	161.0	190.1
58 Ashland Avenue, Calumet-Sag Channel	138.1	88.7	107.4	91.4	107.7	118.2	116.5	142.4	146.2	110.3	163.6
59 Cicero Avenue, Calumet-Sag Channel	96.1	99.3	134.4	94.2	123.1	120.4	128.6	136.4	118.2	124.3	151.8
43 Route 83, Calumet-Sag Channel	103.5	93.7	113.0	104.5	117.1	130.0	122.7	128.4	109.3	116.6	144.1
Des Plaines River System											
90 Route 19, Poplar Creek	41.6	42.0	52.7	53.9	71.5	54.6	66.7	46.9	62.8	63.0	60.4
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	60.2	ND	83.5	71.7
89 Walnut Lane, West Branch DuPage River	57.7	60.0	70.8	65.7	81.8	68.1	77.2	68.1	65.4	73.5	69.3
64 Lake Street, West Branch DuPage River	59.1	61.0	68.0	65.3	81.9	71.4	78.0	68.1	68.0	77.8	68.5
79 Higgins Road, Salt Creek	46.3	62.4	71.1	62.5	81.7	79.4	93.3	72.8	76.0	89.5	79.5
80 Arlington Heights Road, Salt Creek	68.0	62.5	75.1	76.8	85.0	82.9	84.9	77.7	79.3	84.4	73.9
18 Devon Avenue, Salt Creek	72.1	61.6	75.0	75.7	84.5	83.2	84.6	76.4	79.5	82.4	74.0
24 Wolf Road, Salt Creek	75.7	77.3	82.8	84.6	87.0	92.2	96.7	84.1	95.0	98.7	89.4
109 Brookfield Avenue, Salt Creek	72.5	71.7	79.2	79.9	85.2	88.4	97.9	82.4	84.5	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	95.8	94.2	86.2
77 Elmhurst Road, Higgins Creek	39.4	36.3	48.7	37.5	47.1	46.7	66.3	44.8	47.8	60.9	47.0
78 Wille Road, Higgins Creek	77.7	81.7	90.0	91.0	91.7	103.6	100.2	90.4	97.1	107.8	94.5
12 Lake-Cook Road, Buffalo Creek	76.8	69.5	87.6	70.8	111.5	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	58.7	49.4	72.3	75.7	97.0	84.7	88.9	91.6	84.9	76.8	81.0
17 Oakton Street, Des Plaines River	59.7	52.0	69.8	69.8	92.5	112.2	89.9	88.4	86.3	85.8	75.5
19 Belmont Avenue, Des Plaines River	61.5	57.5	75.3	70.6	90.7	88.0	91.2	85.4	85.6	79.5	78.1
20 Roosevelt Road, Des Plaines River	61.3	54.4	75.5	70.5	89.7	100.1	90.6	85.7	87.4	80.5	78.5
22 Ogden Avenue, Des Plaines River	63.6	56.9	74.7	68.8	90.9	85.1	87.9	89.1	87.5	98.9	79.2
23 Willow Springs Road, Des Plaines River	65.2	58.0	77.7	73.1	88.2	89.3	92.8	92.2	90.0	83.8	85.5
29 Stephen Street, Des Plaines River	65.0	57.3	76.7	76.9	91.1	90.5	91.4	95.6	90.6	82.9	83.4
91 Material Service Road, Des Plaines River	66.8	61.0	75.8	74.9	93.7	105.3	94.3	97.5	95.8	81.2	89.1
110 Springinsguth Road, West Branch DuPage River	48.0	64.2	77.9	85.1	112.4	80.5	98.7	ND	ND	ND	ND

ND = No Data.

TABLE AII-68: FATS, OILS, AND GREASES MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	0.00	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.00	0.00	0.00	0.42	0.42	0.73	2.48	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.00	0.00	0.00	0.30	0.27	2.14	2.37	4.47	5.54	4.79	ND
101 Foster Avenue, North Shore Channel	0.00	0.00	0.00	0.33	0.67	2.02	1.94	2.73	4.84	3.96	ND
37 Wilson Avenue, North Branch Chicago River	0.00	0.00	0.00	0.67	0.42	2.45	1.85	3.38	5.45	4.56	ND
73 Diversey Parkway, North Branch Chicago River	0.00	0.00	0.00	0.00	0.83	0.86	2.33	3.38	3.85	8.94	ND
46 Grand Avenue, North Branch Chicago River	0.00	0.00	0.00	0.27	0.42	1.85	2.97	2.59	4.72	3.88	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.00	0.00	0.00	0.27	0.00	0.68	1.93	3.56	5.70	4.16	ND
108 Loomis Street, South Branch Chicago River	0.00	0.00	0.00	0.00	0.00	0.80	1.64	2.87	4.68	4.79	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.00	0.00	0.00	0.00	0.00	0.55	2.77	2.96	4.41	4.03	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.00	0.67	0.00	0.73	3.03	3.16	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	4.37	3.89	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.00	0.25	0.00	1.24	1.59	2.89	5.57	4.09	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	1.17	0.00	0.00	0.65	2.03	2.73	5.16	4.09	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.00	0.00	0.00	0.55	0.00	0.93	2.64	2.06	5.31	5.79	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	0.00	0.00	0.00	0.00	1.18	4.29	2.74	4.10	3.37	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.00	0.22	0.10	0.14	0.37	1.52	1.95	3.85	4.76	3.92	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.00	0.00	0.50	0.60	1.00	1.77	1.46	6.40	5.76	3.17	ND
56 Indiana Avenue, Little Calumet River	0.00	0.00	0.56	0.00	1.18	0.00	1.41	3.66	4.87	3.39	ND
76 Halsted Street, Little Calumet River	0.00	0.00	0.42	0.00	1.18	0.43	1.28	2.91	4.39	4.54	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.00	0.00	0.42	0.00	0.73	0.58	1.98	3.36	5.33	4.20	ND
59 Cicero Avenue, Calumet-Sag Channel	0.00	0.00	0.45	0.00	0.55	0.78	1.78	2.58	4.45	3.92	ND
43 Route 83, Calumet-Sag Channel	0.00	9.80	0.50	0.00	0.73	0.79	2.29	3.41	4.38	4.33	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-69: TOTAL PHOSPHORUS MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.545	2.200
106 Dundee Road, West Fork North Branch Chicago River	1.366	1.260	1.198	1.038	0.964	1.508	2.120	1.620	0.963	1.102	ND
103 Golf Road, West Fork North Branch Chicago River	0.523	0.397	0.422	0.669	0.572	0.834	0.550	0.614	0.752	0.663	ND
31 Lake-Cook Road, Middle Fork North Branch	0.128	0.016	0.136	0.183	0.158	0.210	0.145	0.112	0.155	0.143	0.185
104 Glenview Road, North Branch Chicago River	0.866	0.659	0.643	1.028	0.936	1.413	1.014	1.033	1.256	0.844	ND
32 Lake-Cook Road, Skokie River	0.126	0.019	0.058	0.175	0.599	0.863	0.237	0.331	0.187	0.150	0.224
105 Frontage Road, Skokie River	1.053	0.883	0.815	1.246	1.174	1.538	1.223	1.708	1.477	0.932	ND
34 Dempster Street, North Branch Chicago River	0.494	0.550	0.602	0.879	0.840	1.199	0.925	1.269	1.153	0.624	1.147
96 Albany Avenue, North Branch Chicago River	0.695	0.538	0.507	0.808	0.760	1.155	0.795	1.002	1.037	0.718	1.312
35 Central Street, North Shore Channel	0.078	0.077	0.000	0.062	0.056	0.016	0.088	0.213	0.101	0.058	0.183
102 Oakton Street, North Shore Channel	0.530	0.442	0.432	0.538	0.632	0.444	0.489	0.548	0.655	0.221	ND
36 Touhy Avenue, North Shore Channel	1.154	1.054	1.040	1.388	1.033	1.241	1.170	1.377	1.057	1.259	1.214
101 Foster Avenue, North Shore Channel	1.207	1.113	1.082	1.450	1.384	1.248	1.328	1.287	1.148	1.406	ND
37 Wilson Avenue, North Branch Chicago River	1.024	1.031	0.961	1.287	1.191	1.130	1.227	1.143	1.043	1.198	1.301
73 Diversey Parkway, North Branch Chicago River	1.048	0.931	0.897	1.112	0.986	0.870	1.065	1.055	0.905	0.889	1.102
46 Grand Avenue, North Branch Chicago River	0.950	0.836	0.788	1.115	1.004	1.121	0.923	0.982	0.953	0.800	1.130
74 Lake Shore Drive, Chicago River	0.153	0.003	0.053	0.152	0.125	0.158	0.228	0.226	0.191	0.291	0.373
100 Wells Street, Chicago River	0.336	0.150	0.320	0.308	0.309	0.355	0.443	0.639	0.429	0.387	ND
39 Madison Street, South Branch Chicago River	0.649	0.669	0.658	0.709	0.661	0.830	0.908	1.089	0.756	0.611	1.130
108 Loomis Street, South Branch Chicago River	0.657	0.574	0.591	0.678	0.723	0.722	0.860	0.775	0.732	0.573	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.682	0.485	0.580	0.609	0.590	0.767	0.804	0.857	0.719	0.610	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.670	0.611	0.630	0.686	0.702	0.755	0.843	0.884	ND	ND	1.046
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.738	0.609	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.681	0.493	0.637	0.763	0.661	0.746	0.803	0.867	0.723	0.671	0.965
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.791	0.673	0.829	1.008	0.825	0.988	0.953	1.100	0.984	0.990	1.120
42 Route 83, Chicago Sanitary & Ship Canal	0.837	0.609	0.862	0.830	0.602	0.725	0.978	0.836	0.918	0.760	0.755
48 Stephen Street, Chicago Sanitary & Ship Canal	1.008	0.823	0.928	0.964	0.901	1.168	1.103	1.083	1.180	1.096	1.355
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.485
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.121	0.864	0.952	0.852	0.935	1.166	1.014	1.138	1.197	1.032	1.414
Calumet River System											
49 Ewing Avenue, Calumet River	0.018	0.000	0.000	0.011	0.044	0.025	0.060	0.032	0.060	0.081	0.131
50 Burnham Avenue, Wolf Lake	0.043	0.004	0.000	0.037	0.045	0.023	0.053	0.029	0.035	0.070	0.075
55 130th Street, Calumet River	0.000	0.004	0.000	0.031	0.038	0.025	0.049	0.035	0.039	0.127	0.088
86 Burnham Avenue, Grand Calumet River	0.919	0.290	0.835	1.209	0.699	0.878	0.584	0.607	0.613	0.666	0.537
56 Indiana Avenue, Little Calumet River	0.369	0.010	0.340	0.189	0.359	0.372	0.538	0.504	0.495	0.554	0.373
76 Halsted Street, Little Calumet River	2.010	1.493	2.035	1.037	1.835	2.083	1.638	2.126	2.038	1.386	3.193
52 Wentworth Avenue, Little Calumet River	0.568	0.493	0.587	0.585	0.645	0.609	0.543	0.561	0.595	0.495	0.752
54 Joe Orr Road, Thorn Creek	1.267	1.743	2.664	2.329	2.038	2.113	2.054	1.560	5.909	5.645	5.208
97 170th Street, Thorn Creek	0.920	1.144	1.383	1.479	1.170	1.574	1.502	2.101	2.607	2.296	ND
57 Ashland Avenue, Little Calumet River	0.758	0.519	0.993	0.834	0.764	1.061	0.812	1.223	1.481	1.537	2.170
58 Ashland Avenue, Calumet-Sag Channel	1.578	1.412	1.957	0.963	1.755	2.077	1.562	1.898	2.070	1.442	3.038
59 Cicero Avenue, Calumet-Sag Channel	1.917	1.258	1.803	0.989	1.802	2.214	1.646	2.048	2.129	1.511	3.119
43 Route 83, Calumet-Sag Channel	1.824	1.329	1.378	1.037	1.318	2.266	1.483	1.686	1.814	1.619	2.642
Des Plaines River System											
90 Route 19, Poplar Creek	0.097	0.012	0.000	0.100	0.116	0.087	0.075	0.108	0.066	0.060	0.181
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.140	ND	0.225	0.184
89 Walnut Lane, West Branch DuPage River	2.310	2.340	2.426	2.460	2.270	2.670	2.745	2.440	2.603	2.428	2.109
64 Lake Street, West Branch DuPage River	1.148	1.747	2.119	2.062	1.911	2.432	2.400	2.338	2.245	2.030	1.649
79 Higgins Road, Salt Creek	0.120	0.253	0.000	0.132	0.149	0.108	0.097	0.106	0.109	0.106	0.249
80 Arlington Heights Road, Salt Creek	1.533	1.588	0.142	0.513	1.791	2.022	1.850	1.980	1.992	1.687	1.688
18 Devon Avenue, Salt Creek	1.643	1.563	0.133	0.548	1.882	1.981	1.899	2.007	1.955	1.810	1.710
24 Wolf Road, Salt Creek	1.172	1.122	0.761	0.839	1.471	1.896	1.595	1.584	1.773	1.227	1.407
109 Brookfield Avenue, Salt Creek	1.041	0.944	0.733	0.765	1.355	1.603	1.317	1.328	1.943	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	1.043	1.073	1.239
77 Elmhurst Road, Higgins Creek	0.000	0.035	0.000	0.112	0.123	0.098	0.108	0.290	0.117	0.112	0.184
78 Wille Road, Higgins Creek	1.018	0.936	1.176	0.813	0.663	1.577	0.662	0.478	0.864	0.508	0.578
12 Lake-Cook Road, Buffalo Creek	0.086	0.012	0.000	0.167	0.122	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.773	0.566	0.915	0.934	1.075	1.498	0.985	1.333	1.268	0.826	0.984
17 Oakton Street, Des Plaines River	0.802	0.502	0.765	0.772	0.873	1.256	0.889	0.958	1.033	0.691	0.705
19 Belmont Avenue, Des Plaines River	0.801	0.532	0.745	0.738	0.816	1.107	0.688	0.852	0.883	0.590	0.914
20 Roosevelt Road, Des Plaines River	0.734	0.475	0.682	0.700	0.700	1.069	0.631	0.891	0.875	0.546	0.583
22 Ogden Avenue, Des Plaines River	0.787	0.631	0.656	0.697	0.923	1.224	0.811	1.272	1.095	0.658	0.732
23 Willow Springs Road, Des Plaines River	0.733	0.535	0.641	0.647	0.882	1.173	0.796	0.919	1.060	0.618	0.762
29 Stephen Street, Des Plaines River	0.708	0.535	0.699	0.715	0.930	1.201	0.834	1.077	0.998	0.672	0.742
91 Material Service Road, Des Plaines River	0.678	0.552	0.680	0.733	0.915	1.263	0.778	1.104	0.969	0.679	0.914
110 Springinsguth Road, West Branch DuPage River	0.190	0.093	0.111	0.179	0.184	0.325	0.205	ND	ND	ND	ND

ND = No Data.

**TABLE AII-70: SOLUBLE PHOSPHORUS MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.340	1.610
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.910	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.448	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.082
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.530	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	0.111
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.633	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.418	0.889
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.525	1.103
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053	0.044
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.928	0.989
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.168	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.830	0.904
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.707	0.814
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.682	0.865
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.390	0.270
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.500	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.594	0.730
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.555	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.490	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.703
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.537	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.646	0.672
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.618	0.834
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.646	0.571
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.970	1.071
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.846	1.156
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.046	0.053
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.032	0.040
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.045
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.155	0.121
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.090	0.277
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.372	2.923
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.240	0.384
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.608	4.875
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.620	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.915	1.882
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.300	2.720
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.312	2.794
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.046	2.306
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.020	0.064
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.137	0.060
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.970	1.910
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.772	1.383
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.039
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.265	1.488
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.287	1.447
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.987	1.094
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.937	0.945
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	0.044
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.265	0.385
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.412	0.716
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.352	0.480
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.315	0.420
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.313	0.416
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.443	0.557
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.443	0.544
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.488	0.575
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.380	0.711
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-71: TOTAL CYANIDE MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)											
	10	09	08	07	06	05	04	03	02	01	00	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.009	
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.002	0.000	0.005	0.001	0.005	0.005	0.002	0.003	0.005	ND	
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.000	0.002	0.001	0.003	0.002	0.002	0.003	0.003	ND	
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.001	0.002	0.001	0.002	
104 Glenview Road, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.002	0.003	0.002	0.003	0.003	ND	
32 Lake-Cook Road, Skokie River	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.003	
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.001	0.000	0.002	0.002	0.002	0.002	0.004	ND	
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.002	0.003	0.003	0.008	0.004	0.006	
96 Albany Avenue, North Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.003	0.002	0.002	0.004	0.005	
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.002	
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.004	0.002	ND	
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.000	0.002	0.001	0.002	0.004	0.003	0.004	0.006	0.006	
101 Foster Avenue, North Shore Channel	0.001	0.001	0.000	0.003	0.001	0.003	0.003	0.003	0.004	0.005	ND	
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.000	0.002	0.001	0.003	0.003	0.003	0.004	0.005	0.006	
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.000	0.002	0.001	0.003	0.003	0.003	0.003	0.006	0.012	
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.000	0.002	0.001	0.003	0.004	0.003	0.004	0.005	0.006	
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	
100 Wells Street, Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	ND	
39 Madison Street, South Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.002	0.003	0.004	0.004	0.004	0.005	
108 Loomis Street, South Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.003	0.003	0.003	0.003	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.002	0.003	0.003	0.005	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.001	0.001	0.002	0.003	0.003	ND	ND	0.005	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.001	0.001	0.002	0.003	0.003	0.003	0.004	0.004	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.004	0.003	0.003	0.003	0.003	0.005	0.006	0.007	
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.002	0.002	0.004	0.003	0.004	0.005	0.006	0.007	
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.001	0.000	0.002	0.003	0.004	0.004	0.003	0.006	0.007	0.007	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.002	0.003	0.003	0.004	0.003	0.005	0.006	0.007	
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.001	0.001	0.001	
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	
86 Burnham Avenue, Grand Calumet River	0.002	0.000	0.002	0.004	0.003	0.005	0.005	0.005	0.006	0.010	0.009	
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.002	0.002	0.003	
76 Halsted Street, Little Calumet River	0.001	0.000	0.000	0.002	0.002	0.003	0.003	0.003	0.005	0.007	0.010	
52 Wentworth Avenue, Little Calumet River	0.001	0.000	0.001	0.006	0.004	0.006	0.016	0.005	0.006	0.009	0.061	
54 Joe Orr Road, Thorn Creek	0.002	0.001	0.000	0.002	0.002	0.003	0.004	0.003	0.006	0.005	0.008	
97 170th Street, Thorn Creek	0.001	0.000	0.000	0.001	0.000	0.002	0.002	0.002	0.004	0.004	ND	
57 Ashland Avenue, Little Calumet River	0.002	0.000	0.000	0.003	0.002	0.003	0.005	0.004	0.005	0.005	0.008	
58 Ashland Avenue, Calumet-Sag Channel	0.002	0.001	0.000	0.002	0.002	0.003	0.004	0.003	0.005	0.007	0.009	
59 Cicero Avenue, Calumet-Sag Channel	0.001	0.000	0.000	0.002	0.002	0.003	0.003	0.003	0.005	0.006	0.008	
43 Route 83, Calumet-Sag Channel	0.002	0.000	0.000	0.001	0.001	0.002	0.003	0.002	0.004	0.006	0.007	
Des Plaines River System												
90 Route 19, Poplar Creek	0.001	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.002	0.002	0.002	
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.004	0.002	
89 Walnut Lane, West Branch DuPage River	0.003	0.001	0.001	0.005	0.004	0.004	0.006	0.005	0.007	0.010	0.008	
64 Lake Street, West Branch DuPage River	0.003	0.000	0.000	0.003	0.002	0.004	0.004	0.004	0.005	0.008	0.007	
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.002	0.000	0.001	0.002	0.002	0.002	0.003	0.002	
80 Arlington Heights Road, Salt Creek	0.003	0.001	0.000	0.002	0.001	0.003	0.004	0.003	0.005	0.008	0.007	
18 Devon Avenue, Salt Creek	0.003	0.001	0.000	0.002	0.001	0.003	0.004	0.003	0.005	0.008	0.006	
24 Wolf Road, Salt Creek	0.002	0.000	0.000	0.001	0.000	0.002	0.003	0.003	0.004	0.006	0.004	
109 Brookfield Avenue, Salt Creek	0.001	0.000	0.000	0.001	0.001	0.002	0.002	0.003	0.003	ND	ND	
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.005	0.004	
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.003	0.003	0.004	0.003	0.004	0.003	0.004	
78 Wille Road, Higgins Creek	0.003	0.000	0.001	0.004	0.002	0.003	0.004	0.004	0.005	0.007	0.006	
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.000	0.000	0.000	0.002	0.001	0.002	0.003	0.006	0.005	
17 Oakton Street, Des Plaines River	0.000	0.000	0.002	0.001	0.001	0.005	0.002	0.002	0.003	0.005	0.004	
19 Belmont Avenue, Des Plaines River	0.002	0.000	0.003	0.002	0.001	0.009	0.002	0.003	0.003	0.005	0.004	
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.002	0.002	0.001	0.009	0.002	0.002	0.004	0.005	0.004	
22 Ogden Avenue, Des Plaines River	0.001	0.000	0.002	0.002	0.001	0.003	0.002	0.003	0.003	0.005	0.003	
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.001	0.002	0.000	0.002	0.002	0.002	0.003	0.004	0.004	
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.001	0.000	0.002	0.002	0.002	0.004	0.004	0.004	
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.004	0.004	0.005	
110 Springinguth Road, West Branch DuPage River	0.000	0.001	0.002	0.002	0.002	0.003	0.003	ND	ND	ND	ND	

ND = No Data.

TABLE AII-72: WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.001
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.001	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
101 Foster Avenue, North Shore Channel	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	ND	ND	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.001
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.002	0.001	0.002	0.004	0.001	0.001	0.001	0.009
54 Joe Orr Road, Thorn Creek	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.001	0.001
89 Walnut Lane, West Branch DuPage River	0.002	0.000	0.001	0.003	0.002	0.002	0.002	0.002	0.003	0.002	0.001
64 Lake Street, West Branch DuPage River	0.001	0.000	0.000	0.002	0.001	0.001	0.002	0.002	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.000	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001
18 Devon Avenue, Salt Creek	0.001	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	0.001
77 Elmhurst Road, Higgins Creek	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
78 Wille Road, Higgins Creek	0.001	0.000	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
22 Ogden Avenue, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
29 Stephen Street, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
110 Springinguth Road, West Branch DuPage River	0.001	0.000	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND

ND = No Data.

**TABLE AII-73: FLUORIDE MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.240	0.710
106 Dundee Road, West Fork North Branch Chicago River	0.505	0.476	0.428	0.345	0.334	0.520	0.553	0.450	0.433	0.408	ND
103 Golf Road, West Fork North Branch Chicago River	0.374	0.355	0.339	0.401	0.370	0.469	0.360	0.394	0.425	0.387	ND
31 Lake-Cook Road, Middle Fork North Branch	0.226	0.202	0.216	0.361	0.296	0.375	0.289	0.334	0.343	0.266	0.310
104 Glenview Road, North Branch Chicago River	0.497	0.418	0.425	0.519	0.457	0.584	0.513	0.460	0.617	0.464	ND
32 Lake-Cook Road, Skokie River	0.268	0.225	0.229	0.314	0.379	0.483	0.291	0.364	0.354	0.247	0.315
105 Frontage Road, Skokie River	0.528	0.466	0.441	0.569	0.538	0.614	0.557	0.686	0.703	0.500	ND
34 Dempster Street, North Branch Chicago River	0.395	0.383	0.398	0.485	0.438	0.539	0.473	0.581	0.605	0.378	0.577
96 Albany Avenue, North Branch Chicago River	0.417	0.392	0.332	0.478	0.436	0.516	0.439	0.528	0.567	0.446	0.642
35 Central Street, North Shore Channel	0.134	0.037	0.051	0.198	0.181	0.135	0.136	0.233	0.307	0.138	0.187
102 Oakton Street, North Shore Channel	0.375	0.272	0.269	0.420	0.456	0.346	0.318	0.376	0.512	0.238	ND
36 Touhy Avenue, North Shore Channel	0.663	0.614	0.609	0.763	0.662	0.675	0.619	0.721	0.749	0.694	0.812
101 Foster Avenue, North Shore Channel	0.684	0.614	0.618	0.753	0.683	0.685	0.652	0.717	0.745	0.722	ND
37 Wilson Avenue, North Branch Chicago River	0.614	0.543	0.560	0.710	0.634	0.667	0.617	0.678	0.693	0.623	0.779
73 Diversey Parkway, North Branch Chicago River	0.657	0.575	0.563	0.699	0.615	0.667	0.624	0.688	0.684	0.648	0.765
46 Grand Avenue, North Branch Chicago River	0.623	0.529	0.533	0.688	0.623	0.720	0.601	0.690	0.717	0.665	0.783
74 Lake Shore Drive, Chicago River	0.208	0.066	0.116	0.229	0.196	0.196	0.229	0.250	0.238	0.353	0.358
100 Wells Street, Chicago River	0.316	0.196	0.280	0.312	0.297	0.316	0.322	0.458	0.423	0.363	ND
39 Madison Street, South Branch Chicago River	0.493	0.461	0.409	0.465	0.462	0.551	0.550	0.665	0.590	0.537	0.645
108 Loomis Street, South Branch Chicago River	0.498	0.463	0.430	0.467	0.489	0.557	0.551	0.596	0.581	0.543	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.554	0.456	0.443	0.472	0.461	0.565	0.516	0.578	0.565	0.595	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.505	0.463	0.433	0.467	0.468	0.555	0.525	0.592	ND	ND	0.667
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.532	0.538	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.505	0.418	0.464	0.498	0.479	0.531	0.503	0.578	0.578	0.471	0.617
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.598	0.564	0.562	0.633	0.643	0.740	0.686	0.727	0.743	0.633	0.781
42 Route 83, Chicago Sanitary & Ship Canal	0.643	0.570	0.543	0.685	0.696	0.756	0.768	0.825	0.809	0.715	0.806
48 Stephen Street, Chicago Sanitary & Ship Canal	0.587	0.519	0.519	0.636	0.648	0.701	0.683	0.800	0.809	0.752	0.799
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.914
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.584	0.532	0.562	0.634	0.663	0.719	0.634	0.769	0.802	0.751	0.810
Calumet River System											
49 Ewing Avenue, Calumet River	0.102	0.000	0.073	0.170	0.156	0.128	0.115	0.150	0.188	0.144	0.148
50 Burnham Avenue, Wolf Lake	0.362	0.354	0.338	0.334	0.247	0.275	0.228	0.223	0.213	0.208	0.200
55 130th Street, Calumet River	0.212	0.184	0.240	0.264	0.253	0.219	0.220	0.312	0.248	0.247	0.230
86 Burnham Avenue, Grand Calumet River	0.596	0.768	0.814	0.696	0.809	0.722	0.740	0.812	0.873	0.783	0.823
56 Indiana Avenue, Little Calumet River	0.272	0.235	0.394	0.348	0.324	0.317	0.278	0.375	0.394	0.375	0.382
76 Halsted Street, Little Calumet River	0.530	0.521	0.610	0.534	0.602	0.582	0.536	0.665	0.633	0.730	0.891
52 Wentworth Avenue, Little Calumet River	0.487	0.858	2.284	2.539	2.962	3.129	1.764	2.838	12.390	4.096	4.255
54 Joe Orr Road, Thorn Creek	0.482	0.564	0.658	0.549	0.659	0.474	0.626	0.483	0.746	0.674	0.737
97 170th Street, Thorn Creek	0.370	0.471	0.553	0.470	0.539	0.492	0.543	0.634	1.613	0.520	ND
57 Ashland Avenue, Little Calumet River	0.422	0.766	0.924	0.803	1.115	1.182	0.887	1.107	2.865	1.627	1.609
58 Ashland Avenue, Calumet-Sag Channel	0.492	0.514	0.593	0.514	0.630	0.646	0.563	1.020	1.188	0.828	0.935
59 Cicero Avenue, Calumet-Sag Channel	0.483	0.499	0.575	0.507	0.639	0.637	0.575	0.719	0.935	0.935	0.916
43 Route 83, Calumet-Sag Channel	0.509	0.457	0.534	0.511	0.562	0.662	0.590	0.659	0.925	0.805	0.827
Des Plaines River System											
90 Route 19, Poplar Creek	0.144	0.155	0.150	0.231	0.208	0.209	0.198	0.206	0.234	0.257	0.171
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.170	ND	0.295	0.303
89 Walnut Lane, West Branch DuPage River	0.643	0.610	0.550	0.643	0.629	0.643	0.568	0.625	0.744	0.721	0.723
64 Lake Street, West Branch DuPage River	0.377	0.483	0.530	0.569	0.529	0.603	0.572	0.601	0.631	0.540	0.587
79 Higgins Road, Salt Creek	0.179	0.155	0.197	0.259	0.213	0.207	0.189	0.191	0.238	0.253	0.294
80 Arlington Heights Road, Salt Creek	0.527	0.458	0.517	0.563	0.523	0.553	0.546	0.547	0.602	0.573	0.643
18 Devon Avenue, Salt Creek	0.566	0.445	0.503	0.564	0.534	0.498	0.549	0.568	0.578	0.558	0.608
24 Wolf Road, Salt Creek	0.433	0.408	0.509	0.498	0.480	0.585	0.565	0.542	0.634	0.523	0.542
109 Brookfield Avenue, Salt Creek	0.424	0.395	0.522	0.474	0.459	0.467	0.511	0.474	0.698	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.447	0.499	0.486
77 Elmhurst Road, Higgins Creek	0.130	0.085	0.244	0.296	0.220	0.190	0.223	0.222	0.208	0.315	0.317
78 Wille Road, Higgins Creek	0.661	0.627	0.715	0.897	0.959	0.879	0.812	0.858	0.788	0.762	0.746
12 Lake-Cook Road, Buffalo Creek	0.120	0.044	0.099	0.234	0.191	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.365	0.325	0.401	0.424	0.425	0.438	0.400	0.525	0.508	0.393	0.402
17 Oakton Street, Des Plaines River	0.363	0.292	0.378	0.374	0.369	0.468	0.382	0.459	0.459	0.367	0.400
19 Belmont Avenue, Des Plaines River	0.420	0.355	0.424	0.442	0.468	0.468	0.435	0.541	0.502	0.425	0.459
20 Roosevelt Road, Des Plaines River	0.415	0.335	0.416	0.453	0.452	0.449	0.417	0.496	0.516	0.464	0.526
22 Ogden Avenue, Des Plaines River	0.403	0.345	0.443	0.437	0.447	0.440	0.429	0.592	0.541	0.408	0.410
23 Willow Springs Road, Des Plaines River	0.396	0.332	0.417	0.440	0.440	0.530	0.431	0.488	0.557	0.420	0.488
29 Stephen Street, Des Plaines River	0.383	0.328	0.390	0.470	0.453	0.510	0.427	0.536	0.516	0.386	0.486
91 Material Service Road, Des Plaines River	0.373	0.313	0.408	0.421	0.443	0.540	0.419	0.545	0.518	0.377	0.490
110 Springinguth Road, West Branch DuPage River	0.239	0.233	0.218	0.265	0.240	0.251	0.302	ND	ND	ND	ND

ND = No Data.

TABLE AII-74: TOTAL ORGANIC CARBON MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.50	7.00
106 Dundee Road, West Fork North Branch Chicago River	4.89	4.75	3.97	3.90	4.58	6.43	8.88	10.67	9.50	12.60	ND
103 Golf Road, West Fork North Branch Chicago River	4.70	4.53	3.53	4.05	4.08	6.88	8.40	8.88	9.36	8.40	ND
31 Lake-Cook Road, Middle Fork North Branch	6.79	6.01	5.13	6.75	6.17	9.02	10.10	11.00	11.40	9.73	12.40
104 Glenview Road, North Branch Chicago River	4.66	4.65	4.08	4.40	4.63	5.98	8.33	9.00	8.00	8.10	ND
32 Lake-Cook Road, Skokie River	5.60	5.09	4.36	4.96	5.43	7.62	9.30	9.89	10.60	9.36	12.30
105 Frontage Road, Skokie River	4.58	4.37	3.73	4.29	4.43	5.64	7.17	7.75	8.92	7.60	ND
34 Dempster Street, North Branch Chicago River	4.33	4.63	3.96	4.25	4.50	6.97	9.67	8.82	8.50	7.83	10.73
96 Albany Avenue, North Branch Chicago River	5.35	4.51	3.72	4.32	4.51	6.70	8.18	9.30	8.92	8.33	8.33
35 Central Street, North Shore Channel	3.65	2.71	1.67	1.78	1.92	2.49	4.22	4.89	5.33	3.33	5.67
102 Oakton Street, North Shore Channel	4.09	3.26	2.36	2.92	3.38	4.42	5.92	7.44	7.27	4.20	ND
36 Touhy Avenue, North Shore Channel	4.95	4.16	3.39	4.03	4.12	6.41	8.08	8.92	8.83	8.00	10.58
101 Foster Avenue, North Shore Channel	6.04	3.98	3.37	4.07	4.26	6.48	8.25	8.42	8.67	7.60	ND
37 Wilson Avenue, North Branch Chicago River	4.48	4.02	3.40	3.88	4.32	6.68	8.08	8.67	9.17	7.75	10.17
73 Diversey Parkway, North Branch Chicago River	4.68	3.89	3.32	4.10	4.08	6.26	7.83	8.92	9.25	7.92	10.33
46 Grand Avenue, North Branch Chicago River	4.53	4.13	3.43	4.01	4.25	6.49	7.92	8.92	8.50	7.83	9.92
74 Lake Shore Drive, Chicago River	2.55	2.23	1.77	1.87	1.75	2.54	4.22	4.30	4.42	4.58	6.58
100 Wells Street, Chicago River	2.93	2.53	2.39	2.25	2.27	3.55	5.17	6.25	5.33	4.71	ND
39 Madison Street, South Branch Chicago River	4.04	3.60	3.09	3.03	3.29	5.03	7.00	7.91	7.75	6.67	9.08
108 Loomis Street, South Branch Chicago River	4.02	3.43	2.96	3.17	3.35	5.52	6.83	8.00	7.00	6.22	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.44	3.76	3.81	3.34	3.27	5.44	7.08	7.83	8.17	8.50	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	3.84	3.68	2.93	3.15	3.37	5.52	6.67	7.67	ND	ND	12.78
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	7.58	6.90	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.93	3.51	3.13	3.24	3.75	5.08	7.00	7.33	7.50	6.58	8.58
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.63	4.32	3.56	3.80	4.16	5.92	7.50	8.25	7.92	7.25	9.75
42 Route 83, Chicago Sanitary & Ship Canal	4.91	4.27	3.56	4.19	4.39	6.05	8.17	8.00	8.83	7.67	12.55
48 Stephen Street, Chicago Sanitary & Ship Canal	4.93	4.37	3.68	4.20	4.54	6.32	7.75	7.92	8.67	7.92	10.09
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.83	4.44	3.60	4.34	4.40	6.01	8.00	8.29	8.26	7.59	9.62
Calumet River System											
49 Ewing Avenue, Calumet River	4.50	1.74	1.29	1.48	1.43	1.77	3.40	3.17	3.75	3.25	6.67
50 Burnham Avenue, Wolf Lake	6.28	4.35	3.83	4.00	3.81	5.37	6.42	6.17	5.50	5.18	6.92
55 130th Street, Calumet River	2.84	3.00	2.31	2.75	2.62	3.39	4.55	4.70	4.92	4.73	6.27
86 Burnham Avenue, Grand Calumet River	10.66	6.76	8.99	17.54	7.45	9.27	12.33	12.90	11.36	9.90	14.18
56 Indiana Avenue, Little Calumet River	3.64	3.70	3.08	3.47	3.39	3.77	5.11	5.64	6.42	5.75	7.67
76 Halsted Street, Little Calumet River	4.96	4.44	4.07	4.19	4.40	5.90	7.67	8.45	8.33	7.50	10.92
52 Wentworth Avenue, Little Calumet River	7.69	6.61	5.54	6.22	9.02	8.54	12.22	11.60	10.73	10.18	12.82
54 Joe Orr Road, Thorn Creek	5.96	6.41	5.09	5.04	5.33	8.00	10.43	9.67	10.43	9.08	12.75
97 170th Street, Thorn Creek	6.19	5.59	4.53	5.22	6.26	6.72	9.27	9.60	9.17	9.10	ND
57 Ashland Avenue, Little Calumet River	5.60	5.99	4.89	6.68	5.67	7.46	9.60	9.60	9.00	9.10	12.73
58 Ashland Avenue, Calumet-Sag Channel	5.53	4.70	4.19	4.60	4.65	6.04	8.00	8.50	8.75	8.25	11.58
59 Cicero Avenue, Calumet-Sag Channel	5.55	4.71	4.21	4.55	4.77	6.41	8.17	8.64	8.67	8.17	11.50
43 Route 83, Calumet-Sag Channel	4.92	4.70	4.03	4.64	4.77	6.54	8.00	8.55	8.25	8.25	17.25
Des Plaines River System											
90 Route 19, Poplar Creek	5.67	5.14	4.43	5.13	5.75	7.28	8.64	9.90	9.22	8.82	12.29
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	12.00	ND	12.75	13.78
89 Walnut Lane, West Branch DuPage River	6.54	6.53	6.23	6.73	6.83	9.55	12.45	11.91	11.75	11.17	12.75
64 Lake Street, West Branch DuPage River	5.80	6.18	5.26	6.05	6.23	8.65	10.09	10.83	10.25	10.64	12.64
79 Higgins Road, Salt Creek	6.64	6.03	4.72	5.27	5.60	8.42	9.45	9.56	10.00	9.20	11.40
80 Arlington Heights Road, Salt Creek	5.58	5.47	3.74	4.45	5.00	7.13	9.42	9.92	10.50	9.83	10.67
18 Devon Avenue, Salt Creek	5.59	5.33	3.67	4.49	4.90	6.86	9.58	10.08	9.80	9.42	10.58
24 Wolf Road, Salt Creek	4.95	4.77	3.58	4.07	4.68	6.73	8.27	8.67	8.45	8.33	10.80
109 Brookfield Avenue, Salt Creek	4.87	4.83	3.72	4.29	4.65	7.30	10.82	8.70	8.83	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	9.67	8.50	10.10
77 Elmhurst Road, Higgins Creek	3.80	5.28	3.62	4.66	5.13	7.75	11.00	10.40	9.83	10.09	11.80
78 Wille Road, Higgins Creek	5.02	5.12	4.83	5.03	5.59	7.94	10.55	10.25	9.83	9.92	12.08
12 Lake-Cook Road, Buffalo Creek	5.97	6.41	5.79	6.10	5.94	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.98	6.04	4.81	7.90	7.21	7.48	9.27	9.67	9.25	8.67	11.17
17 Oakton Street, Des Plaines River	5.94	6.06	4.75	5.98	5.40	7.38	8.73	9.40	9.55	8.83	11.40
19 Belmont Avenue, Des Plaines River	5.48	5.77	4.57	5.75	5.56	7.53	9.27	9.50	9.67	8.92	11.10
20 Roosevelt Road, Des Plaines River	5.68	5.85	4.82	5.74	5.52	7.28	9.36	9.00	9.33	8.75	11.20
22 Ogden Avenue, Des Plaines River	5.28	5.58	4.41	5.36	5.14	7.00	9.27	9.20	9.25	8.50	10.80
23 Willow Springs Road, Des Plaines River	5.23	5.55	4.29	6.02	5.20	7.11	8.82	9.10	9.00	9.67	10.40
29 Stephen Street, Des Plaines River	5.45	5.51	3.98	5.20	5.12	7.08	8.45	9.36	9.00	9.25	9.60
91 Material Service Road, Des Plaines River	5.19	5.41	3.99	5.45	5.09	7.19	8.45	8.92	8.83	8.63	11.46
110 Springinsguth Road, West Branch DuPage River	11.70	9.94	10.90	11.28	12.02	13.02	15.70	ND	ND	ND	ND

ND = No Data.

TABLE AII-75: FECAL COLIFORM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	2683	4000
106 Dundee Road, West Fork North Branch Chicago River	2364	1818	1453	2476	3196	1130	2494	3740	1344	1782	ND
103 Golf Road, West Fork North Branch Chicago River	466	1083	1133	660	893	727	622	839	704	854	ND
31 Lake-Cook Road, Middle Fork North Branch	646	586	1836	633	943	536	760	773	1143	767	1050
104 Glenview Road, North Branch Chicago River	188	372	563	827	855	649	1326	777	904	1112	ND
32 Lake-Cook Road, Skokie River	775	655	596	736	657	649	1042	546	718	1750	1131
105 Frontage Road, Skokie River	112	169	151	199	119	160	159	225	357	490	ND
34 Dempster Street, North Branch Chicago River	1472	695	1069	600	1026	1121	996	1333	924	1377	1484
96 Albany Avenue, North Branch Chicago River	507	420	653	520	860	1119	1029	1498	1508	2517	4238
35 Central Street, North Shore Channel	54	80	168	66	90	144	330	291	483	356	270
102 Oakton Street, North Shore Channel	615	343	1627	638	1181	866	963	1487	1954	580	ND
36 Touhy Avenue, North Shore Channel	5393	8040	6892	8875	8550	11481	5518	7588	8349	4211	9424
101 Foster Avenue, North Shore Channel	5484	5021	7878	9612	7628	10290	6872	7917	10250	8703	ND
37 Wilson Avenue, North Branch Chicago River	4091	5461	5723	7479	6033	9748	5896	5940	7358	5958	7677
73 Diversey Parkway, North Branch Chicago River	3538	3818	4373	3608	4237	5799	3426	4228	5833	3832	5539
46 Grand Avenue, North Branch Chicago River	971	1706	3414	1226	2054	1853	1583	2402	1919	1840	1715
74 Lake Shore Drive, Chicago River	28	241	90	86	31	81	46	53	36	66	91
100 Wells Street, Chicago River	182	189	947	183	190	150	65	301	288	159	ND
39 Madison Street, South Branch Chicago River	415	904	2921	922	892	921	680	799	800	1622	1090
108 Loomis Street, South Branch Chicago River	257	334	1427	371	445	297	179	181	253	325	ND
99 Archer Avenue, South Fork South Branch Chicago River	230	384	1625	294	493	156	202	294	548	1530	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	258	283	940	349	523	223	164	173	ND	ND	160
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	180	393	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	137	202	649	347	469	129	104	153	245	303	154
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1391	3321	4642	4908	3906	2668	2637	4314	3609	4126	5043
42 Route 83, Chicago Sanitary & Ship Canal	537	573	1238	1289	1303	1011	935	866	460	1580	1046
48 Stephen Street, Chicago Sanitary & Ship Canal	199	448	992	645	894	469	386	345	419	812	537
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	101	216	255	227	308	205	186	179	159	291	256
Calumet River System											
49 Ewing Avenue, Calumet River	15	11	13	12	11	12	11	12	12	20	18
50 Burnham Avenue, Wolf Lake	21	26	36	70	21	77	53	37	13	32	24
55 130th Street, Calumet River	35	9	25	19	24	37	26	32	19	82	53
86 Burnham Avenue, Grand Calumet River	4613	1158	642	2448	420	2377	1104	1695	488	2056	3323
56 Indiana Avenue, Little Calumet River	74	74	111	49	89	73	103	75	89	364	124
76 Halsted Street, Little Calumet River	1926	2262	2891	3259	2159	2759	2775	2990	2024	2550	4774
52 Wentworth Avenue, Little Calumet River	2585	2935	1811	1477	956	1934	1284	2247	976	2211	3501
54 Joe Orr Road, Thorn Creek	1131	2335	1407	2411	3309	14257	1588	2922	1083	1083	2617
97 170th Street, Thorn Creek	1086	756	780	698	642	2119	1292	1347	637	1197	ND
57 Ashland Avenue, Little Calumet River	1346	563	783	816	431	3181	4103	2329	576	1623	3088
58 Ashland Avenue, Calumet-Sag Channel	1280	1407	2174	2122	1580	2365	2616	2135	1157	3095	3170
59 Cicero Avenue, Calumet-Sag Channel	1060	377	945	1178	539	857	1041	1105	471	1057	656
43 Route 83, Calumet-Sag Channel	127	106	108	188	97	57	147	103	93	298	79
Des Plaines River System											
90 Route 19, Poplar Creek	87	138	163	181	264	417	92	387	113	129	948
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	1400	ND	1075	2538
89 Walnut Lane, West Branch DuPage River	549	451	1103	2013	857	2026	1121	2181	1600	1273	1943
64 Lake Street, West Branch DuPage River	814	538	684	2406	949	2144	967	1731	1532	1739	1889
79 Higgins Road, Salt Creek	154	97	47	250	153	499	84	568	82	49	305
80 Arlington Heights Road, Salt Creek	273	184	377	312	417	389	529	678	303	426	623
18 Devon Avenue, Salt Creek	472	328	734	930	946	1014	1214	1668	939	1140	807
24 Wolf Road, Salt Creek	358	398	298	688	1303	1034	337	2012	440	507	1109
109 Brookfield Avenue, Salt Creek	560	615	663	1425	1618	1480	1499	3461	2056	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	782	599	1459
77 Elmhurst Road, Higgins Creek	210	1296	857	2370	1915	1932	488	7317	2395	598	636
78 Wille Road, Higgins Creek	142	475	266	514	275	382	162	559	475	256	536
12 Lake-Cook Road, Buffalo Creek	140	99	248	823	236	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	245	193	247	310	362	650	240	566	284	269	440
17 Oakton Street, Des Plaines River	224	208	452	313	616	639	342	1128	345	492	915
19 Belmont Avenue, Des Plaines River	423	301	365	516	525	523	410	1021	709	440	734
20 Roosevelt Road, Des Plaines River	296	511	523	634	897	950	662	1309	913	422	790
22 Ogdan Avenue, Des Plaines River	363	356	503	767	1509	1247	792	1023	900	519	1121
23 Willow Springs Road, Des Plaines River	280	217	187	302	1092	480	303	1664	351	232	835
29 Stephen Street, Des Plaines River	162	129	129	184	617	248	202	568	276	275	528
91 Material Service Road, Des Plaines River	63	83	78	192	327	260	135	564	122	367	295
110 Springingsh Road, West Branch DuPage River	1500	2621	3454	6187	3225	3763	2603	ND	ND	ND	ND

ND = No Data.

TABLE AII-76: ESCHERICHIA COLI MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1195	2068	1008	1800	2068	ND	2140	5099	ND	1232	ND
103 Golf Road, West Fork North Branch Chicago River	411	968	507	347	374	943	451	380	506	541	ND
31 Lake-Cook Road, Middle Fork North Branch	348	466	1005	921	799	243	956	319	429	467	ND
104 Glenview Road, North Branch Chicago River	174	240	353	266	291	443	432	180	254	629	ND
32 Lake-Cook Road, Skokie River	697	344	312	527	147	515	579	418	581	905	ND
105 Frontage Road, Skokie River	129	247	121	118	71	276	142	134	387	634	ND
34 Dempster Street, North Branch Chicago River	2277	343	446	386	840	734	604	1110	534	812	ND
96 Albany Avenue, North Branch Chicago River	1244	148	559	400	470	791	337	934	1553	9471	ND
35 Central Street, North Shore Channel	81	53	231	44	222	78	267	271	4382	139	ND
102 Oakton Street, North Shore Channel	3345	362	2052	562	782	974	835	4035	1409	217	ND
36 Touhy Avenue, North Shore Channel	5491	6119	6748	8540	5772	10341	3302	7271	9539	861	ND
101 Foster Avenue, North Shore Channel	4095	4701	7533	12046	6040	10236	5652	8204	14164	8842	ND
37 Wilson Avenue, North Branch Chicago River	3511	5609	5922	9093	5411	9844	6376	7083	9158	3387	ND
73 Diversey Parkway, North Branch Chicago River	2336	4607	3816	3900	3231	7280	2569	4688	6747	2627	ND
46 Grand Avenue, North Branch Chicago River	573	1599	3263	1197	1245	2667	1272	2882	2128	1123	ND
74 Lake Shore Drive, Chicago River	17	38	55	81	16	24	49	44	20	24	ND
100 Wells Street, Chicago River	33	93	411	169	184	119	49	231	307	175	ND
39 Madison Street, South Branch Chicago River	180	973	1683	584	1253	461	463	427	565	417	ND
108 Loomis Street, South Branch Chicago River	68	201	621	336	599	61	72	70	176	183	ND
99 Archer Avenue, South Fork South Branch Chicago River	201	164	907	115	448	102	78	251	173	810	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	230	260	632	ND	ND	156	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	342	77	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	58	161	488	932	403	78	177	94	224	67	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1106	1669	2877	5416	3330	2267	2567	2488	2925	3795	ND
42 Route 83, Chicago Sanitary & Ship Canal	667	399	1007	867	1365	1340	553	787	715	2345	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	202	379	724	645	1049	796	407	322	530	922	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	81	175	457	251	316	148	128	81	177	69	ND
Calumet River System											
49 Ewing Avenue, Calumet River	23	10	10	10	10	12	10	14	10	10	ND
50 Burnham Avenue, Wolf Lake	26	23	29	89	19	183	37	58	12	9	ND
55 130th Street, Calumet River	43	14	23	12	16	57	15	90	14	10	ND
86 Burnham Avenue, Grand Calumet River	204450	1302	2342	682	262	11506	6199	6709	449	220	ND
56 Indiana Avenue, Little Calumet River	126	257	77	29	181	63	48	142	101	228	ND
76 Halsted Street, Little Calumet River	3724	2486	2012	1929	2372	2838	2420	2787	1815	3240	ND
52 Wentworth Avenue, Little Calumet River	2785	1724	1090	2677	829	2278	3794	1169	846	3688	ND
54 Joe Orr Road, Thorn Creek	1368	1428	699	2611	2124	16399	1508	22000	721	1339	ND
97 170th Street, Thorn Creek	435	815	697	1138	364	2442	1631	2984	529	2237	ND
57 Ashland Avenue, Little Calumet River	552	285	1027	1530	288	5565	5967	2705	615	1622	ND
58 Ashland Avenue, Calumet-Sag Channel	436	943	1738	3512	1259	2253	2454	1264	690	2661	ND
59 Cicero Avenue, Calumet-Sag Channel	360	193	471	1793	396	797	1139	418	500	271	ND
43 Route 83, Calumet-Sag Channel	26	46	86	822	24	60	218	39	75	145	ND
Des Plaines River System											
90 Route 19, Poplar Creek	144	118	149	148	514	775	42	103	82	251	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	1259	ND
89 Walnut Lane, West Branch DuPage River	588	399	1836	720	675	2202	727	2139	1366	395	ND
64 Lake Street, West Branch DuPage River	1509	399	1472	1714	1451	2216	908	1357	1150	1102	ND
79 Higgins Road, Salt Creek	209	63	109	114	22	158	89	423	61	34	ND
80 Arlington Heights Road, Salt Creek	280	76	443	221	427	487	370	552	209	294	ND
18 Devon Avenue, Salt Creek	552	134	1239	483	530	1202	1164	2722	1146	3950	ND
24 Wolf Road, Salt Creek	218	232	278	286	711	1077	165	7589	336	30	ND
109 Brookfield Avenue, Salt Creek	442	367	450	492	723	1289	2994	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	330	375	ND
77 Elmhurst Road, Higgins Creek	200	660	220	1897	1217	890	268	5717	2097	687	ND
78 Wille Road, Higgins Creek	179	315	186	221	207	1077	127	539	425	71	ND
12 Lake-Cook Road, Buffalo Creek	280	117	109	287	216	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	333	320	218	274	398	684	77	223	569	163	ND
17 Oakton Street, Des Plaines River	185	352	503	232	555	295	161	147	553	185	ND
19 Belmont Avenue, Des Plaines River	477	399	323	271	839	439	458	277	1018	202	ND
20 Roosevelt Road, Des Plaines River	335	953	391	457	1165	480	524	773	903	419	ND
22 Ogden Avenue, Des Plaines River	364	579	681	667	1618	606	724	88	837	515	ND
23 Willow Springs Road, Des Plaines River	154	295	110	268	855	169	202	1220	506	253	ND
29 Stephen Street, Des Plaines River	179	197	118	165	431	186	122	117	641	273	ND
91 Material Service Road, Des Plaines River	59	103	69	263	381	114	248	363	90	644	ND
110 Springinguth Road, West Branch DuPage River	1606	1719	1739	6129	2664	2794	2596	ND	ND	ND	ND

ND = No Data.

TABLE AII-77: TOTAL CALCIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	106.6	80.3
106 Dundee Road, West Fork North Branch Chicago River	72.1	68.2	71.1	73.6	62.0	70.3	85.3	54.9	79.0	79.8	ND
103 Golf Road, West Fork North Branch Chicago River	75.7	66.4	68.2	75.5	73.9	80.8	71.5	70.9	72.8	71.0	ND
31 Lake-Cook Road, Middle Fork North Branch	61.3	57.6	62.1	64.2	62.9	65.6	64.3	64.1	71.9	74.2	66.0
104 Glenview Road, North Branch Chicago River	64.3	61.5	65.1	62.8	62.3	61.5	64.4	65.5	69.0	68.8	ND
32 Lake-Cook Road, Skokie River	67.5	62.7	66.3	75.8	68.5	70.5	74.2	69.8	75.4	79.4	73.1
105 Frontage Road, Skokie River	63.5	62.2	64.3	62.8	62.1	62.0	63.2	59.9	67.7	66.2	ND
34 Dempster Street, North Branch Chicago River	69.8	61.2	63.0	64.2	65.9	70.6	68.7	65.7	70.0	70.6	63.8
96 Albany Avenue, North Branch Chicago River	65.4	65.4	67.6	65.5	67.9	69.4	65.1	64.6	69.2	72.8	56.6
35 Central Street, North Shore Channel	38.2	37.1	39.6	39.4	37.5	39.1	38.8	41.0	43.6	37.7	43.4
102 Oakton Street, North Shore Channel	48.9	47.2	47.6	49.3	47.7	47.8	45.8	50.4	51.9	42.6	ND
36 Touhy Avenue, North Shore Channel	52.3	60.2	60.0	56.0	53.3	51.9	57.1	53.4	58.5	61.8	52.9
101 Foster Avenue, North Shore Channel	55.0	58.0	60.3	58.0	54.2	52.9	57.7	54.3	58.8	57.6	ND
37 Wilson Avenue, North Branch Chicago River	59.9	57.9	61.0	59.1	56.4	55.7	59.8	56.4	60.9	63.9	55.6
73 Diversey Parkway, North Branch Chicago River	58.5	58.4	61.7	57.3	56.2	54.7	60.8	55.4	61.7	65.3	54.9
46 Grand Avenue, North Branch Chicago River	57.0	56.4	60.8	57.9	56.9	57.3	62.1	56.6	60.2	64.3	55.4
74 Lake Shore Drive, Chicago River	38.2	36.8	37.3	42.0	38.4	40.6	44.2	40.9	43.1	46.1	44.2
100 Wells Street, Chicago River	43.5	43.8	47.4	44.8	44.1	44.1	46.0	48.0	49.3	49.4	ND
39 Madison Street, South Branch Chicago River	51.3	53.5	53.6	51.8	51.3	52.0	52.8	55.2	57.3	58.4	53.3
108 Loomis Street, South Branch Chicago River	52.7	55.1	53.9	52.7	53.6	54.3	52.0	52.8	56.8	51.5	ND
99 Archer Avenue, South Fork South Branch Chicago River	54.9	52.1	56.8	50.3	51.2	51.9	53.3	52.5	56.7	58.0	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	53.4	53.5	53.9	52.3	53.8	52.9	53.1	53.4	ND	ND	53.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	57.8	56.1	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	53.8	52.9	56.8	53.3	51.2	54.5	55.1	52.1	59.9	55.7	53.3
41 Harlem Avenue, Chicago Sanitary & Ship Canal	59.2	56.9	58.5	56.2	54.8	54.2	54.6	53.8	57.3	59.6	54.3
42 Route 83, Chicago Sanitary & Ship Canal	58.5	57.0	57.5	56.0	56.3	56.4	56.5	56.6	58.7	59.8	53.6
48 Stephen Street, Chicago Sanitary & Ship Canal	60.5	56.4	60.1	58.3	59.0	60.1	59.8	58.7	61.6	63.4	58.5
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	60.7	57.8	60.8	59.1	58.4	59.5	59.9	59.0	62.6	63.8	57.3
Calumet River System											
49 Ewing Avenue, Calumet River	35.2	35.9	34.9	37.3	35.9	36.5	37.1	38.6	41.1	40.2	39.7
50 Burnham Avenue, Wolf Lake	35.5	36.1	35.8	36.2	30.9	37.3	36.6	35.3	35.9	34.5	34.3
55 130th Street, Calumet River	41.8	43.3	42.6	46.3	42.6	43.4	43.2	43.4	47.2	48.8	44.9
86 Burnham Avenue, Grand Calumet River	85.3	82.4	96.3	92.0	98.0	68.3	82.5	86.9	79.6	85.6	73.3
56 Indiana Avenue, Little Calumet River	47.6	50.2	50.8	55.0	49.6	47.8	49.2	52.0	58.6	52.5	49.7
76 Halsted Street, Little Calumet River	60.8	62.5	68.1	66.3	65.8	63.1	62.1	62.2	64.8	71.1	63.6
52 Wentworth Avenue, Little Calumet River	72.2	75.1	89.9	79.9	88.1	74.4	86.4	96.3	94.5	82.8	85.9
54 Joe Orr Road, Thorn Creek	79.2	75.7	83.8	78.7	85.4	76.0	80.8	64.1	85.5	85.5	72.8
97 170th Street, Thorn Creek	73.9	75.8	87.0	71.6	87.7	83.0	84.0	80.6	100.8	88.6	ND
57 Ashland Avenue, Little Calumet River	69.4	70.9	82.3	69.8	86.4	75.4	78.9	84.3	86.5	79.0	84.5
58 Ashland Avenue, Calumet-Sag Channel	65.3	61.8	68.4	61.8	68.3	65.3	65.4	66.2	73.7	76.2	67.1
59 Cicero Avenue, Calumet-Sag Channel	63.9	61.8	67.9	61.8	71.3	65.4	66.4	64.8	68.2	72.7	68.1
43 Route 83, Calumet-Sag Channel	66.9	61.0	66.5	61.8	69.4	64.7	63.1	65.3	69.8	72.5	70.4
Des Plaines River System											
90 Route 19, Poplar Creek	75.9	67.3	73.1	68.5	70.9	65.6	76.3	61.3	77.0	78.0	64.8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	59.8	ND	99.6	63.8
89 Walnut Lane, West Branch DuPage River	65.3	66.1	63.6	61.6	65.8	58.5	64.5	55.8	63.1	67.8	59.3
64 Lake Street, West Branch DuPage River	79.2	65.0	67.3	58.8	63.7	59.7	70.4	55.6	65.0	69.3	59.9
79 Higgins Road, Salt Creek	50.6	62.2	70.2	63.5	63.3	65.9	75.8	58.1	67.5	79.3	65.9
80 Arlington Heights Road, Salt Creek	65.8	61.5	69.9	62.7	64.5	66.4	64.1	60.9	68.7	69.2	59.4
18 Devon Avenue, Salt Creek	68.3	60.7	69.4	63.0	65.4	66.4	64.4	58.9	68.2	68.9	58.8
24 Wolf Road, Salt Creek	70.8	68.5	70.9	65.1	64.0	66.1	69.7	59.2	73.7	75.3	67.7
109 Brookfield Avenue, Salt Creek	67.8	66.0	68.2	62.6	63.1	64.2	69.9	58.5	58.5	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	92.5	80.7	65.5
77 Elmhurst Road, Higgins Creek	63.6	51.0	62.4	44.5	54.3	60.1	73.7	48.3	63.2	79.6	62.4
78 Wille Road, Higgins Creek	75.2	79.1	76.6	71.0	69.4	69.2	70.9	63.4	74.4	80.9	67.6
12 Lake-Cook Road, Buffalo Creek	76.8	69.5	78.3	69.2	75.3	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	67.8	62.1	72.5	67.9	73.3	66.8	71.1	65.2	76.8	76.5	67.3
17 Oakton Street, Des Plaines River	66.3	61.2	70.7	64.2	69.1	66.6	72.2	64.1	75.6	81.1	67.1
19 Belmont Avenue, Des Plaines River	65.1	63.3	72.5	64.2	69.2	67.1	72.7	62.4	74.7	77.9	65.5
20 Roosevelt Road, Des Plaines River	65.1	61.6	72.4	63.9	68.6	65.8	71.0	60.9	74.7	75.4	64.2
22 Ogden Avenue, Des Plaines River	65.3	61.5	68.4	62.6	65.2	63.7	69.9	68.7	73.8	75.4	65.2
23 Willow Springs Road, Des Plaines River	63.3	61.8	69.7	62.7	64.5	66.1	69.7	61.7	70.8	75.5	66.0
29 Stephen Street, Des Plaines River	67.1	61.8	71.1	65.1	69.8	67.4	70.0	65.9	76.6	76.6	67.2
91 Material Service Road, Des Plaines River	67.8	63.6	69.8	66.3	71.0	68.3	71.1	65.6	74.9	73.0	69.3
110 Springinguth Road, West Branch DuPage River	72.1	74.8	82.5	77.8	85.6	77.1	86.8	ND	ND	ND	ND

ND = No Data.

TABLE AII-78: TOTAL MAGNESIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	46.1	32.8
106 Dundee Road, West Fork North Branch Chicago River	28.5	28.2	29.7	28.1	25.7	29.0	35.4	23.6	34.0	37.7	ND
103 Golf Road, West Fork North Branch Chicago River	29.1	26.4	26.3	29.7	29.7	32.2	27.6	28.3	30.5	31.6	ND
31 Lake-Cook Road, Middle Fork North Branch	26.4	24.6	25.7	28.7	28.9	33.1	29.2	29.2	33.0	33.9	30.0
104 Glenview Road, North Branch Chicago River	27.0	25.8	27.0	26.9	27.1	27.7	27.3	28.3	29.6	31.3	ND
32 Lake-Cook Road, Skokie River	28.1	25.4	26.9	31.3	30.3	32.4	31.6	29.8	33.5	35.4	32.8
105 Frontage Road, Skokie River	27.0	26.1	26.5	26.3	26.5	27.2	26.9	25.3	29.2	30.5	ND
34 Dempster Street, North Branch Chicago River	28.3	25.1	25.9	27.2	27.9	30.7	28.4	27.0	29.8	31.8	27.9
96 Albany Avenue, North Branch Chicago River	26.3	26.3	27.0	27.6	28.3	29.7	26.8	26.6	29.3	31.4	23.2
35 Central Street, North Shore Channel	12.8	12.5	13.3	13.3	12.5	13.3	13.1	14.1	15.2	12.2	15.7
102 Oakton Street, North Shore Channel	16.9	16.4	16.2	16.9	16.7	16.9	15.8	17.5	17.9	14.4	ND
36 Touhy Avenue, North Shore Channel	18.0	21.0	21.2	19.5	19.0	18.2	20.3	19.1	21.2	23.2	19.3
101 Foster Avenue, North Shore Channel	19.1	20.1	21.4	20.2	19.4	18.6	20.8	19.4	21.3	21.3	ND
37 Wilson Avenue, North Branch Chicago River	22.0	20.8	22.4	21.3	20.9	20.1	22.2	20.5	22.8	25.1	21.0
73 Diversey Parkway, North Branch Chicago River	21.1	20.8	22.5	20.7	20.7	19.5	22.4	20.0	23.1	25.6	20.8
46 Grand Avenue, North Branch Chicago River	20.3	20.0	21.8	20.9	21.0	20.8	22.3	20.4	22.5	24.8	20.9
74 Lake Shore Drive, Chicago River	12.7	12.4	12.6	14.5	12.9	14.2	15.5	13.7	14.7	16.1	15.7
100 Wells Street, Chicago River	15.0	15.1	16.5	15.9	15.3	15.3	16.3	16.7	17.4	18.0	ND
39 Madison Street, South Branch Chicago River	18.2	19.1	19.1	18.4	18.6	18.6	19.0	19.9	21.1	22.2	19.4
108 Loomis Street, South Branch Chicago River	18.7	19.8	19.4	18.7	19.6	19.8	19.0	18.8	21.0	19.0	ND
99 Archer Avenue, South Fork South Branch Chicago River	19.4	18.1	20.1	17.7	18.4	18.5	19.2	18.7	20.6	21.7	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.0	19.5	19.4	18.6	19.6	19.2	19.3	19.1	ND	ND	20.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	21.4	21.2	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.4	18.7	20.7	18.9	18.3	19.7	19.9	18.5	21.9	21.3	19.7
41 Harlem Avenue, Chicago Sanitary & Ship Canal	20.9	20.0	21.0	19.8	19.9	19.6	19.9	19.2	21.1	23.1	20.1
42 Route 83, Chicago Sanitary & Ship Canal	20.1	20.1	20.5	20.2	20.4	20.5	20.6	20.2	21.8	23.0	19.8
48 Stephen Street, Chicago Sanitary & Ship Canal	21.1	19.9	21.4	21.2	21.5	22.2	21.9	21.3	22.9	24.6	21.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	21.2	20.6	21.6	21.3	21.3	21.8	22.0	21.4	23.0	24.9	21.8
Calumet River System											
49 Ewing Avenue, Calumet River	11.8	11.7	11.2	12.1	11.5	12.1	12.3	12.8	13.2	13.1	13.1
50 Burnham Avenue, Wolf Lake	12.4	11.8	11.9	12.1	11.9	13.7	13.4	13.2	14.4	12.6	13.0
55 130th Street, Calumet River	14.2	14.4	14.0	15.8	14.2	15.0	14.8	14.8	15.9	16.8	15.5
86 Burnham Avenue, Grand Calumet River	28.2	36.9	39.0	39.3	48.7	44.4	53.9	65.6	67.1	57.1	57.7
56 Indiana Avenue, Little Calumet River	16.2	17.2	17.3	19.8	17.6	17.8	18.5	19.2	23.8	20.1	22.3
76 Halsted Street, Little Calumet River	20.6	21.5	23.2	22.8	22.6	22.3	22.0	21.5	23.0	26.5	23.4
52 Wentworth Avenue, Little Calumet River	28.6	28.4	34.3	31.4	33.9	29.7	34.3	37.2	38.4	33.6	35.3
54 Joe Orr Road, Thorn Creek	28.3	28.2	30.4	30.1	36.3	33.8	33.9	26.5	38.4	39.3	34.2
97 170th Street, Thorn Creek	29.7	29.9	33.9	28.4	37.7	36.6	36.7	34.6	49.1	41.3	ND
57 Ashland Avenue, Little Calumet River	26.5	27.0	31.2	27.0	35.3	31.6	32.5	35.0	37.3	35.1	38.8
58 Ashland Avenue, Calumet-Sag Channel	23.4	21.6	23.6	21.8	24.2	23.8	23.8	24.2	27.9	28.3	26.0
59 Cicero Avenue, Calumet-Sag Channel	22.4	22.1	23.8	21.8	25.8	23.8	24.7	23.7	25.4	27.7	26.4
43 Route 83, Calumet-Sag Channel	23.7	21.9	23.6	22.4	25.4	23.7	23.6	24.1	26.0	27.8	26.9
Des Plaines River System											
90 Route 19, Poplar Creek	32.3	28.7	31.8	30.3	30.6	29.8	34.4	27.5	34.6	36.7	31.3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	22.3	ND	41.5	24.1
89 Walnut Lane, West Branch DuPage River	24.2	25.1	24.0	23.0	24.3	22.0	23.9	20.2	23.9	26.8	23.7
64 Lake Street, West Branch DuPage River	28.3	24.4	25.1	22.3	23.6	22.3	26.2	20.3	24.8	27.8	23.6
79 Higgins Road, Salt Creek	20.7	26.3	28.5	26.2	26.4	29.5	31.4	23.2	31.2	36.7	28.9
80 Arlington Heights Road, Salt Creek	24.5	23.3	26.2	24.3	24.9	25.9	24.4	23.4	27.0	28.6	24.1
18 Devon Avenue, Salt Creek	25.6	23.0	26.0	24.5	25.2	25.7	24.5	22.7	26.6	28.5	23.6
24 Wolf Road, Salt Creek	27.1	26.6	27.6	26.0	25.6	27.3	28.2	23.3	30.1	32.5	28.3
109 Brookfield Avenue, Salt Creek	26.2	25.8	26.7	25.1	25.3	26.7	28.3	23.2	24.0	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	37.4	34.6	27.7
77 Elmhurst Road, Higgins Creek	20.6	18.2	20.3	14.5	18.5	20.1	26.3	15.6	22.5	32.5	22.9
78 Wille Road, Higgins Creek	27.2	28.9	27.9	25.6	25.1	25.6	26.2	22.8	27.9	32.6	25.8
12 Lake-Cook Road, Buffalo Creek	32.6	29.5	33.4	30.4	33.1	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	29.5	27.3	31.3	30.0	32.7	29.6	31.8	28.7	35.1	36.1	31.6
17 Oakton Street, Des Plaines River	28.2	26.4	30.0	28.5	30.7	29.9	32.5	27.9	33.9	37.7	30.7
19 Belmont Avenue, Des Plaines River	26.8	26.8	30.1	27.7	29.7	29.1	31.1	25.9	33.0	35.8	29.7
20 Roosevelt Road, Des Plaines River	26.7	26.2	30.1	27.7	29.3	28.7	31.4	25.5	33.0	35.0	29.3
22 Ogden Avenue, Des Plaines River	26.5	25.7	28.1	26.6	27.3	27.5	30.1	27.8	31.6	33.8	29.1
23 Willow Springs Road, Des Plaines River	25.7	26.0	29.0	26.9	27.4	28.8	30.3	25.9	31.0	34.4	29.7
29 Stephen Street, Des Plaines River	27.3	25.8	29.1	28.2	29.5	29.2	30.2	27.4	32.7	35.7	30.0
91 Material Service Road, Des Plaines River	27.8	26.3	28.9	28.2	30.3	29.9	30.9	27.5	32.5	32.8	31.0
110 Springinsguth Road, West Branch DuPage River	25.5	27.1	29.8	28.3	30.4	28.0	31.9	ND	ND	ND	ND

ND = No Data.

TABLE AII-79: HARDNESS MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	456	335
106 Dundee Road, West Fork North Branch Chicago River	297	286	300	300	261	295	359	234	337	354	ND
103 Golf Road, West Fork North Branch Chicago River	309	274	278	311	307	335	292	294	307	307	ND
31 Lake-Cook Road, Middle Fork North Branch	262	245	261	278	276	300	281	280	316	325	288
104 Glenview Road, North Branch Chicago River	272	260	274	268	267	268	273	280	294	301	ND
32 Lake-Cook Road, Skokie River	284	261	276	318	296	310	316	297	326	344	318
105 Frontage Road, Skokie River	270	263	270	265	264	267	269	254	289	291	ND
34 Dempster Street, North Branch Chicago River	291	256	264	272	279	303	289	275	297	307	274
96 Albany Avenue, North Branch Chicago River	272	272	280	277	286	296	273	271	293	311	237
35 Central Street, North Shore Channel	148	144	154	153	145	153	151	160	171	144	173
102 Oakton Street, North Shore Channel	192	185	186	193	188	189	179	198	203	166	ND
36 Touhy Avenue, North Shore Channel	205	237	237	220	211	205	226	212	233	250	211
101 Foster Avenue, North Shore Channel	216	228	239	228	215	209	229	215	235	231	ND
37 Wilson Avenue, North Branch Chicago River	240	230	244	235	227	222	241	225	246	263	225
73 Diversey Parkway, North Branch Chicago River	233	231	247	228	226	217	244	221	249	268	223
46 Grand Avenue, North Branch Chicago River	226	223	242	231	229	229	247	226	243	263	224
74 Lake Shore Drive, Chicago River	148	143	145	165	149	160	174	159	168	182	175
100 Wells Street, Chicago River	171	172	187	177	173	182	189	195	198	198	ND
39 Madison Street, South Branch Chicago River	203	212	212	205	205	207	210	219	230	237	213
108 Loomis Street, South Branch Chicago River	209	219	214	209	214	217	208	209	228	207	ND
99 Archer Avenue, South Fork South Branch Chicago River	217	205	225	198	204	206	212	208	226	234	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	211	214	214	207	215	211	212	212	ND	ND	214
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	233	228	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	214	209	227	211	203	217	219	206	240	227	214
41 Harlem Avenue, Chicago Sanitary & Ship Canal	234	224	233	222	219	216	218	213	230	244	218
42 Route 83, Chicago Sanitary & Ship Canal	229	225	228	223	225	225	226	225	236	244	215
48 Stephen Street, Chicago Sanitary & Ship Canal	238	223	238	233	236	241	240	234	248	260	236
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	239	229	241	236	234	238	240	235	251	262	233
Calumet River System											
49 Ewing Avenue, Calumet River	136	138	133	143	137	141	143	149	157	154	153
50 Burnham Avenue, Wolf Lake	140	139	138	140	126	149	146	143	149	138	139
55 130th Street, Calumet River	163	167	164	181	165	170	169	169	183	191	176
86 Burnham Avenue, Grand Calumet River	329	358	401	391	445	354	428	487	475	449	421
56 Indiana Avenue, Little Calumet River	185	196	198	219	196	193	199	209	244	214	216
76 Halsted Street, Little Calumet River	237	245	266	259	258	249	246	244	256	287	255
52 Wentworth Avenue, Little Calumet River	298	304	366	329	360	308	357	393	394	345	360
54 Joe Orr Road, Thorn Creek	314	305	335	321	363	329	341	269	371	375	323
97 170th Street, Thorn Creek	307	312	357	296	374	358	361	344	454	391	ND
57 Ashland Avenue, Little Calumet River	283	288	334	285	361	318	331	355	370	342	371
58 Ashland Avenue, Calumet-Sag Channel	259	243	268	244	270	261	261	265	299	307	275
59 Cicero Avenue, Calumet-Sag Channel	252	245	268	244	284	261	268	260	275	296	279
43 Route 83, Calumet-Sag Channel	265	243	263	247	278	259	255	262	282	295	286
Des Plaines River System											
90 Route 19, Poplar Creek	323	286	314	296	303	287	332	266	335	346	291
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	241	ND	419	258
89 Walnut Lane, West Branch DuPage River	263	268	258	249	265	237	260	222	256	280	246
64 Lake Street, West Branch DuPage River	314	263	271	239	256	241	283	222	264	287	247
79 Higgins Road, Salt Creek	212	264	292	266	267	286	319	241	297	349	284
80 Arlington Heights Road, Salt Creek	265	249	282	257	263	273	261	248	283	290	248
18 Devon Avenue, Salt Creek	276	246	280	258	267	272	262	241	280	289	244
24 Wolf Road, Salt Creek	289	280	291	269	265	277	290	244	308	322	286
109 Brookfield Avenue, Salt Creek	277	271	280	260	262	270	291	242	245	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	385	344	277
77 Elmhurst Road, Higgins Creek	244	203	239	171	212	233	292	185	250	332	250
78 Wille Road, Higgins Creek	300	317	306	283	277	278	285	252	301	336	275
12 Lake-Cook Road, Buffalo Creek	326	295	333	298	324	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	291	267	310	293	318	289	308	281	336	340	298
17 Oakton Street, Des Plaines River	282	261	300	278	299	289	314	275	328	358	294
19 Belmont Avenue, Des Plaines River	273	268	305	274	295	287	310	263	322	342	286
20 Roosevelt Road, Des Plaines River	272	262	305	273	292	283	307	257	323	333	281
22 Ogden Avenue, Des Plaines River	272	259	287	266	275	272	298	286	314	327	282
23 Willow Springs Road, Des Plaines River	264	261	293	268	274	284	299	260	305	330	287
29 Stephen Street, Des Plaines River	280	261	297	279	295	288	299	278	326	338	291
91 Material Service Road, Des Plaines River	284	267	293	282	302	293	305	277	321	317	301
110 Springinguth Road, West Branch DuPage River	285	298	329	311	339	308	348	ND	ND	ND	ND

ND = No Data.

TABLE AII-80: GROSS ALPHA RADIOACTIVITY MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (pCi/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2.75	4.53	2.95	11.71	6.01	6.20	6.38	3.79	4.49	4.77	ND
103 Golf Road, West Fork North Branch Chicago River	3.38	4.20	2.59	7.08	5.73	7.14	4.36	4.80	4.41	4.67	ND
31 Lake-Cook Road, Middle Fork North Branch	3.42	2.76	2.78	5.25	4.94	5.34	4.74	4.53	3.82	6.05	ND
104 Glenview Road, North Branch Chicago River	3.56	3.62	2.35	5.37	5.40	5.50	4.19	4.47	3.72	4.57	ND
32 Lake-Cook Road, Skokie River	3.10	2.71	2.65	5.29	5.04	5.50	4.51	4.34	3.78	4.86	ND
105 Frontage Road, Skokie River	3.48	3.32	2.28	5.13	4.82	5.03	4.26	3.87	3.79	4.53	ND
34 Dempster Street, North Branch Chicago River	3.68	3.61	2.38	6.56	5.01	5.91	4.84	4.92	4.15	4.88	ND
96 Albany Avenue, North Branch Chicago River	3.67	3.93	2.71	6.03	5.04	5.43	4.01	4.25	4.39	4.71	ND
35 Central Street, North Shore Channel	2.05	1.62	1.36	3.85	3.07	3.30	3.00	3.43	3.40	3.45	4.23
102 Oakton Street, North Shore Channel	2.67	2.57	1.60	4.29	3.56	4.07	3.23	3.67	3.64	4.03	ND
36 Touhy Avenue, North Shore Channel	2.85	3.25	2.03	5.27	3.73	4.27	3.62	3.54	3.72	4.29	4.21
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	2.37	1.64	1.27	4.29	3.09	3.23	3.43	3.14	3.27	4.01	ND
100 Wells Street, Chicago River	2.23	2.57	1.73	4.27	3.41	3.61	3.44	3.41	3.45	4.25	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.08	4.73	2.08	5.40	3.84	4.17	3.87	3.67	3.70	4.32	4.22
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.41	2.96	2.26	6.13	3.88	4.27	3.93	3.49	3.66	4.49	4.26
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.36
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.25
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.43	3.79	2.44	4.89	4.08	4.53	4.00	3.62	3.83	4.50	4.44
Calumet River System											
49 Ewing Avenue, Calumet River	1.84	1.94	1.37	4.14	3.66	3.03	2.90	3.22	3.00	3.79	ND
50 Burnham Avenue, Wolf Lake	1.95	1.81	1.41	4.16	3.44	3.33	2.94	3.12	2.95	3.44	ND
55 130th Street, Calumet River	2.15	2.58	1.72	4.70	3.49	3.50	3.17	3.50	3.30	3.76	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	2.28	2.82	1.93	5.08	3.65	3.56	3.43	3.76	3.57	4.25	4.30
76 Halsted Street, Little Calumet River	3.07	2.77	2.35	5.28	4.08	4.66	3.68	3.99	3.72	4.34	4.39
52 Wentworth Avenue, Little Calumet River	2.91	2.84	2.62	5.63	4.24	4.88	3.80	4.59	4.46	4.43	ND
54 Joe Orr Road, Thorn Creek	3.91	4.56	3.98	7.27	6.25	8.99	6.72	4.00	8.21	5.73	ND
97 170th Street, Thorn Creek	3.98	4.30	3.13	6.27	5.38	7.46	6.43	6.15	5.67	4.99	ND
57 Ashland Avenue, Little Calumet River	3.64	3.88	2.69	5.46	5.09	6.19	4.35	4.73	4.68	4.63	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.41
Des Plaines River System											
90 Route 19, Poplar Creek	3.01	3.04	2.49	5.25	5.66	5.19	4.76	3.92	4.37	5.63	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	3.57	ND	5.23	4.21
89 Walnut Lane, West Branch DuPage River	2.97	3.29	2.38	4.82	4.98	4.77	4.32	3.78	4.07	4.53	4.13
64 Lake Street, West Branch DuPage River	4.93	3.05	2.44	4.85	5.10	5.06	4.51	3.69	4.18	4.91	ND
79 Higgins Road, Salt Creek	3.23	3.34	2.90	5.39	5.27	6.27	5.20	4.65	4.23	5.54	4.37
80 Arlington Heights Road, Salt Creek	3.16	2.84	2.46	5.18	5.59	5.71	4.59	4.28	4.00	5.07	4.19
18 Devon Avenue, Salt Creek	3.37	2.75	2.44	5.17	5.51	5.85	4.59	4.28	3.97	5.06	ND
24 Wolf Road, Salt Creek	3.50	3.41	2.66	5.45	5.00	4.81	4.52	4.32	4.79	4.45	ND
109 Brookfield Avenue, Salt Creek	3.30	4.66	2.77	5.46	5.20	4.76	4.55	4.26	3.38	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	7.16	4.98	ND
77 Elmhurst Road, Higgins Creek	2.64	2.37	2.76	5.20	6.74	7.77	5.90	4.54	6.04	5.82	4.42
78 Wille Road, Higgins Creek	2.59	3.50	2.38	5.28	4.78	4.79	4.19	3.98	4.43	5.44	4.24
12 Lake-Cook Road, Buffalo Creek	3.27	3.11	2.75	5.67	5.13	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	3.24	2.88	2.41	5.22	4.86	5.27	4.08	4.04	4.10	5.26	ND
17 Oakton Street, Des Plaines River	2.71	2.50	2.49	5.35	4.97	5.30	4.27	4.08	4.50	5.26	ND
19 Belmont Avenue, Des Plaines River	2.84	3.08	2.64	5.33	5.06	5.46	4.09	4.15	4.56	4.69	ND
20 Roosevelt Road, Des Plaines River	4.18	2.30	2.43	5.36	5.29	5.02	4.43	4.15	4.92	4.80	ND
22 Ogden Avenue, Des Plaines River	3.46	3.23	2.91	5.54	4.95	5.07	4.10	4.25	4.62	4.83	ND
23 Willow Springs Road, Des Plaines River	3.65	3.10	2.47	5.25	5.06	4.93	4.21	4.19	4.17	4.85	ND
29 Stephen Street, Des Plaines River	3.27	3.22	2.85	5.24	5.40	4.93	4.19	4.29	4.74	4.86	ND
91 Material Service Road, Des Plaines River	3.48	3.43	3.50	5.11	4.84	5.70	4.72	4.19	4.13	5.12	4.54
110 Springinguth Road, West Branch DuPage River	2.55	3.90	3.26	6.14	7.04	6.48	5.09	ND	ND	ND	ND

ND = No Data.

TABLE AII-81: GROSS BETA RADIOACTIVITY MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (pCi/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	8.10	7.18	7.85	11.96	11.59	11.58	16.75	8.90	8.00	11.92	ND
103 Golf Road, West Fork North Branch Chicago River	7.99	6.97	4.53	9.70	9.95	11.05	11.05	10.27	9.99	7.77	ND
31 Lake-Cook Road, Middle Fork North Branch	5.51	5.56	6.34	6.66	7.40	7.15	7.41	7.37	6.64	7.80	ND
104 Glenview Road, North Branch Chicago River	6.34	6.32	4.70	7.18	9.08	11.27	9.48	8.90	12.84	7.59	ND
32 Lake-Cook Road, Skokie River	6.18	5.40	4.65	5.94	8.19	8.83	7.13	7.35	6.70	6.56	ND
105 Frontage Road, Skokie River	7.12	6.50	4.67	8.18	9.65	10.79	9.60	9.93	8.46	7.77	ND
34 Dempster Street, North Branch Chicago River	5.94	5.74	4.61	9.02	9.39	11.51	8.93	10.17	9.49	7.41	ND
96 Albany Avenue, North Branch Chicago River	7.06	6.02	4.47	8.16	7.91	10.61	9.09	9.53	8.47	7.24	ND
35 Central Street, North Shore Channel	4.87	5.08	1.92	4.89	4.50	4.28	4.48	4.82	6.79	4.44	6.67
102 Oakton Street, North Shore Channel	5.19	5.40	3.79	5.91	6.97	6.88	5.78	6.45	6.70	5.43	ND
36 Touhy Avenue, North Shore Channel	6.36	6.29	4.64	7.70	7.91	7.88	8.29	7.70	7.94	7.12	11.30
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversy Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	4.55	4.94	2.06	4.73	4.54	4.29	5.52	4.80	4.87	5.82	ND
100 Wells Street, Chicago River	5.25	5.04	3.51	5.22	5.22	5.60	6.57	6.36	5.36	7.03	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.97	5.64	5.86	7.36	6.87	7.38	8.91	8.13	6.80	8.01	9.05
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.47	6.32	6.55	9.43	8.29	7.98	8.92	8.38	6.66	8.32	9.33
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.04
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.65
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.85	6.81	6.23	8.06	8.21	8.70	9.03	9.22	8.31	7.93	9.11
Calumet River System											
49 Ewing Avenue, Calumet River	4.38	4.72	2.69	5.42	5.39	4.99	4.77	3.99	4.31	4.92	ND
50 Burnham Avenue, Wolf Lake	6.05	5.49	4.30	7.02	6.10	4.94	7.01	4.81	4.77	4.89	ND
55 130th Street, Calumet River	4.79	5.66	4.14	7.24	6.50	6.14	6.79	6.10	5.72	6.36	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	5.82	5.59	5.31	7.77	7.82	6.63	6.99	7.48	6.80	8.20	7.59
76 Halsted Street, Little Calumet River	6.34	6.66	6.83	8.74	8.96	9.11	8.41	9.54	9.00	7.44	10.27
52 Wentworth Avenue, Little Calumet River	7.19	5.99	6.96	10.56	10.37	10.90	12.00	12.91	12.46	9.42	ND
54 Joe Orr Road, Thorn Creek	6.83	8.36	7.63	8.90	10.91	14.81	12.20	10.77	12.05	7.95	ND
97 170th Street, Thorn Creek	7.91	8.02	7.64	10.69	10.72	13.04	11.68	12.14	12.41	8.40	ND
57 Ashland Avenue, Little Calumet River	6.80	6.86	7.82	9.52	10.20	11.25	10.88	10.93	10.76	8.89	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.40
Des Plaines River System											
90 Route 19, Poplar Creek	5.93	5.83	3.48	6.26	7.25	6.75	5.59	6.76	5.70	5.91	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	5.41	ND	7.02	7.30
89 Walnut Lane, West Branch DuPage River	9.15	9.31	7.04	9.37	9.90	10.62	9.17	10.50	10.82	9.50	9.61
64 Lake Street, West Branch DuPage River	9.39	8.23	7.51	9.31	10.36	10.94	10.71	10.56	10.72	10.14	ND
79 Higgins Road, Salt Creek	4.79	5.91	4.27	7.55	7.71	8.35	8.15	8.41	8.09	7.05	7.01
80 Arlington Heights Road, Salt Creek	6.94	6.24	5.33	9.10	10.09	10.26	9.43	9.54	9.12	9.32	9.75
18 Devon Avenue, Salt Creek	6.89	6.61	5.24	9.40	9.35	11.03	9.86	10.54	9.77	8.27	ND
24 Wolf Road, Salt Creek	6.63	7.12	6.85	9.29	11.12	11.39	9.45	10.43	10.71	9.13	ND
109 Brookfield Avenue, Salt Creek	8.37	7.30	7.67	8.92	10.50	10.71	8.96	9.41	10.31	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	10.68	9.41	ND
77 Elmhurst Road, Higgins Creek	4.78	4.99	3.74	6.99	8.79	11.23	8.33	9.76	8.82	7.32	7.37
78 Wille Road, Higgins Creek	6.42	7.56	7.43	11.79	12.65	15.45	13.34	13.15	15.24	15.72	16.49
12 Lake-Cook Road, Buffalo Creek	5.54	5.44	3.78	8.20	7.37	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.23	7.12	6.05	8.94	10.05	11.41	9.53	10.71	9.94	8.21	ND
17 Oakton Street, Des Plaines River	5.94	6.18	5.05	8.40	9.12	10.16	9.23	10.61	9.39	7.81	ND
19 Belmont Avenue, Des Plaines River	6.60	5.57	5.54	9.81	10.24	11.57	9.77	10.62	10.73	8.37	ND
20 Roosevelt Road, Des Plaines River	6.24	6.23	6.16	9.70	9.69	10.91	8.99	10.23	10.38	7.89	ND
22 Ogden Avenue, Des Plaines River	7.06	7.07	8.05	9.27	9.32	11.04	9.51	9.44	10.33	7.92	ND
23 Willow Springs Road, Des Plaines River	6.11	6.19	7.96	8.01	9.51	10.68	9.37	9.32	10.28	8.78	ND
29 Stephen Street, Des Plaines River	7.00	6.25	7.55	9.48	10.39	10.87	9.16	10.23	10.53	8.36	ND
91 Material Service Road, Des Plaines River	8.06	7.02	6.48	9.94	9.65	12.34	9.48	10.75	9.88	8.77	9.21
110 Springinsguth Road, West Branch DuPage River	4.53	5.60	4.87	7.41	8.04	8.52	8.22	ND	ND	ND	ND

ND = No Data.

TABLE AII-82: CHLOROPHYLL *a* MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	8.1	7.2	14.4	6.3	10.6	14.6	29.1	47.9	9.6	ND	ND
103 Golf Road, West Fork North Branch Chicago River	14.0	7.5	9.1	12.4	13.4	29.3	21.1	19.0	14.4	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.0	5.1	10.6	7.7	12.0	8.0	6.7	11.1	11.6	ND	ND
104 Glenview Road, North Branch Chicago River	7.0	5.9	10.6	12.2	19.7	10.1	12.1	32.9	18.1	ND	ND
32 Lake-Cook Road, Skokie River	7.0	6.2	8.3	8.9	7.6	12.0	22.5	10.3	11.5	ND	ND
105 Frontage Road, Skokie River	10.1	9.7	18.4	18.1	32.9	15.6	20.4	21.5	21.5	ND	ND
34 Dempster Street, North Branch Chicago River	7.7	5.6	8.7	9.7	16.7	24.2	15.8	16.7	16.2	ND	ND
96 Albany Avenue, North Branch Chicago River	8.8	7.1	7.8	9.0	14.0	35.6	21.5	18.1	11.7	ND	ND
35 Central Street, North Shore Channel	17.7	9.9	6.3	6.2	4.5	3.6	2.9	8.1	12.5	ND	ND
102 Oakton Street, North Shore Channel	16.8	11.3	12.6	16.2	22.6	8.1	12.5	4.8	17.0	ND	ND
36 Touhy Avenue, North Shore Channel	2.1	2.0	2.1	1.3	2.0	1.6	1.4	1.2	1.5	ND	ND
101 Foster Avenue, North Shore Channel	1.5	1.9	1.4	1.1	1.6	2.2	1.9	4.3	1.9	ND	ND
37 Wilson Avenue, North Branch Chicago River	2.5	2.8	3.2	2.9	4.7	2.8	4.0	4.9	4.9	ND	ND
73 Diversey Parkway, North Branch Chicago River	2.8	2.2	3.6	2.4	4.3	2.6	3.8	4.7	3.9	ND	ND
46 Grand Avenue, North Branch Chicago River	2.6	2.7	3.5	4.9	6.1	4.3	5.8	5.7	3.6	ND	ND
74 Lake Shore Drive, Chicago River	1.3	1.3	1.6	2.2	1.4	3.3	4.7	3.2	2.7	ND	ND
100 Wells Street, Chicago River	1.9	1.6	2.5	2.2	2.5	2.8	3.0	3.7	3.0	ND	ND
39 Madison Street, South Branch Chicago River	3.8	1.9	3.5	4.0	4.4	4.2	4.1	5.2	4.6	ND	ND
108 Loomis Street, South Branch Chicago River	2.3	2.0	3.0	3.7	6.0	5.4	7.2	6.1	3.4	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	13.3	8.9	10.5	7.4	5.7	21.5	27.4	9.5	9.2	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	5.8	7.7	3.4	4.5	5.4	14.1	7.9	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.7	3.0	4.1	5.4	4.7	6.5	6.0	6.3	5.0	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.0	1.9	2.3	2.6	2.8	3.6	3.4	2.7	2.4	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	5.5	2.9	4.1	5.2	4.1	6.4	4.2	4.4	4.2	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	4.7	5.2	5.6	6.1	3.7	5.3	3.5	7.2	3.9	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.7	5.6	5.4	5.5	4.0	5.2	3.9	7.2	5.3	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.9	2.1	1.7	1.1	1.4	0.9	1.4	1.6	1.7	ND	ND
50 Burnham Avenue, Wolf Lake	4.5	5.4	6.7	6.2	4.7	6.8	4.8	8.7	3.8	ND	ND
55 130th Street, Calumet River	3.7	6.3	4.6	4.0	3.3	2.9	4.0	7.1	9.9	ND	ND
86 Burnham Avenue, Grand Calumet River	75.6	30.8	142.5	101.0	27.4	57.7	61.9	38.1	31.1	ND	ND
56 Indiana Avenue, Little Calumet River	14.1	27.0	20.6	14.0	25.8	16.4	7.2	24.4	26.4	ND	ND
76 Halsted Street, Little Calumet River	4.1	12.6	7.8	6.6	8.1	7.1	3.8	10.3	9.1	ND	ND
52 Wentworth Avenue, Little Calumet River	8.2	7.7	5.5	13.0	4.3	6.0	5.5	9.0	5.7	ND	ND
54 Joe Orr Road, Thorn Creek	4.7	4.8	4.1	3.0	3.7	12.4	6.7	8.5	9.2	ND	ND
97 170th Street, Thorn Creek	11.2	9.4	8.5	9.2	5.3	8.2	8.8	11.5	10.4	ND	ND
57 Ashland Avenue, Little Calumet River	8.0	10.5	8.2	7.1	4.7	9.2	7.5	10.0	11.2	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	7.0	11.3	8.0	7.2	9.5	10.4	4.8	15.3	11.5	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	4.0	12.4	7.9	7.8	9.0	7.5	5.2	20.3	11.8	ND	ND
43 Route 83, Calumet-Sag Channel	5.2	9.0	10.0	6.5	6.3	8.8	4.4	24.5	15.8	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	10.0	9.0	8.9	10.9	13.9	12.5	8.1	14.6	15.9	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	4.8	5.9	6.6	7.3	5.4	9.1	3.7	9.0	5.9	ND	ND
64 Lake Street, West Branch DuPage River	15.9	18.8	19.4	23.2	20.2	24.6	15.4	29.5	24.9	ND	ND
79 Higgins Road, Salt Creek	26.3	21.3	33.9	39.0	33.9	31.0	36.4	37.4	30.6	ND	ND
80 Arlington Heights Road, Salt Creek	15.6	13.6	11.7	13.8	16.5	12.4	11.2	18.6	12.9	ND	ND
18 Devon Avenue, Salt Creek	13.6	15.0	13.6	14.3	17.6	14.8	15.7	19.5	16.2	ND	ND
24 Wolf Road, Salt Creek	8.6	8.0	8.9	7.4	12.0	11.0	6.4	12.9	13.7	ND	ND
109 Brookfield Avenue, Salt Creek	8.2	9.5	6.1	7.3	16.1	11.3	9.9	17.9	12.8	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	22.8	ND	ND
77 Elmhurst Road, Higgins Creek	28.3	8.4	25.7	14.7	11.9	14.1	8.5	11.4	14.3	ND	ND
78 Wille Road, Higgins Creek	2.6	2.2	2.4	3.8	3.0	2.5	2.6	4.3	2.8	ND	ND
12 Lake-Cook Road, Buffalo Creek	14.1	18.6	19.7	23.2	20.2	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	12.3	10.7	18.8	13.7	16.9	27.5	21.0	34.1	27.3	ND	ND
17 Oakton Street, Des Plaines River	14.2	19.2	35.1	12.3	13.0	34.3	18.3	42.2	20.5	ND	ND
19 Belmont Avenue, Des Plaines River	13.7	13.7	22.0	6.1	12.3	23.2	13.0	35.3	11.2	ND	ND
20 Roosevelt Road, Des Plaines River	12.6	20.1	23.3	6.7	11.4	23.4	14.2	28.7	10.0	ND	ND
22 Ogden Avenue, Des Plaines River	11.5	19.7	20.7	6.1	15.8	19.1	14.1	45.5	12.9	ND	ND
23 Willow Springs Road, Des Plaines River	12.6	27.5	22.5	5.1	13.5	29.0	15.9	33.0	20.6	ND	ND
29 Stephen Street, Des Plaines River	16.9	29.9	22.4	9.5	17.5	49.0	25.5	49.1	34.5	ND	ND
91 Material Service Road, Des Plaines River	26.3	24.1	26.3	11.9	23.8	34.6	40.4	56.2	35.3	ND	ND
110 Springinguth Road, West Branch DuPage River	17.2	14.0	14.3	21.4	14.5	59.8	10.6	ND	ND	ND	ND

ND = No Data.

**TABLE AII-83: BENZENE MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	0.000	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND

ND = No Data.

**TABLE AII-84: ETHYLBENZENE MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.400	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND

ND = No Data.

TABLE AII-85: TOLUENE MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	1.267	0.000	0.000	0.500	0.000	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.333	0.667	0.000	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.333	0.000	1.067	0.000	2.200	1.000	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.967	0.640	0.000	0.400	0.000	0.000	0.000	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.383	0.625	0.000	0.333	0.000	0.000	0.000	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.383	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.200	0.000	0.000	0.000	0.000	0.800	0.000	0.000	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	1.033	0.000	0.000	0.000	0.400	0.000	0.000	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.483	0.433	0.000	0.000	0.667	0.000	0.000	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.467	0.000	0.000	0.000	0.857	0.000	0.000	0.000	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.625	0.000	2.200	0.000	ND	ND	ND	ND

ND = No Data.

TABLE AII-86: XYLENE MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND

ND = No Data.

**TABLE AII-87: TOTAL SILVER MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	0.001
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.002	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.002	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.001	0.001
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.001	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND

ND = No Data.

TABLE AII-88: TOTAL ARSENIC MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.005	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.006	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.008	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.004	0.007	0.008
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.009	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.007
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.005	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.006	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.010	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.006
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.010	0.013
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.011
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.004	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.004	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.006	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.004	0.001
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.005
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.006	0.007	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.005	0.005
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.004	0.018
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.010	0.005	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.006	0.007
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.005	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.007	0.005
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.006	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.005	0.005
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.003	0.005	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.005	0.010
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.006	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.004	0.005	0.009
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.007	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.005
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.008
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.003	0.007
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.002	0.007
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.545	0.000	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.008	0.003	0.012
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.005	0.008	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.004	0.003	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.003	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.006	0.008
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.003	0.003	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.004	0.002	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.003	0.004	0.004
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND

ND = No Data.

**TABLE AII-89: TOTAL BARIUM MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.089	0.083
106 Dundee Road, West Fork North Branch Chicago River	0.064	0.060	0.063	0.062	0.056	0.051	0.069	0.048	0.054	0.072	ND
103 Golf Road, West Fork North Branch Chicago River	0.054	0.048	0.048	0.052	0.052	0.055	0.048	0.051	0.051	0.052	ND
31 Lake-Cook Road, Middle Fork North Branch	0.039	0.036	0.042	0.041	0.045	0.042	0.040	0.045	0.045	0.054	0.041
104 Glenview Road, North Branch Chicago River	0.033	0.032	0.037	0.034	0.037	0.032	0.034	0.038	0.035	0.039	ND
32 Lake-Cook Road, Skokie River	0.042	0.038	0.042	0.048	0.043	0.041	0.046	0.045	0.047	0.053	0.042
105 Frontage Road, Skokie River	0.030	0.030	0.035	0.032	0.030	0.030	0.033	0.029	0.032	0.036	ND
34 Dempster Street, North Branch Chicago River	0.040	0.035	0.039	0.038	0.040	0.041	0.040	0.039	0.040	0.047	0.033
96 Albany Avenue, North Branch Chicago River	0.038	0.037	0.042	0.039	0.041	0.040	0.037	0.039	0.043	0.044	0.029
35 Central Street, North Shore Channel	0.023	0.021	0.024	0.023	0.022	0.025	0.023	0.024	0.030	0.026	0.023
102 Oakton Street, North Shore Channel	0.026	0.023	0.025	0.025	0.023	0.025	0.023	0.026	0.025	0.027	ND
36 Touhy Avenue, North Shore Channel	0.022	0.026	0.026	0.024	0.021	0.022	0.023	0.020	0.024	0.027	0.017
101 Foster Avenue, North Shore Channel	0.023	0.025	0.027	0.024	0.021	0.022	0.023	0.021	0.024	0.024	ND
37 Wilson Avenue, North Branch Chicago River	0.028	0.027	0.030	0.027	0.025	0.024	0.026	0.024	0.028	0.031	0.021
73 Diversey Parkway, North Branch Chicago River	0.026	0.027	0.030	0.026	0.025	0.024	0.026	0.027	0.029	0.033	0.020
46 Grand Avenue, North Branch Chicago River	0.026	0.027	0.030	0.028	0.026	0.025	0.028	0.024	0.028	0.031	0.021
74 Lake Shore Drive, Chicago River	0.023	0.022	0.023	0.024	0.022	0.023	0.025	0.023	0.025	0.026	0.023
100 Wells Street, Chicago River	0.023	0.024	0.026	0.024	0.023	0.023	0.024	0.023	0.027	0.028	ND
39 Madison Street, South Branch Chicago River	0.026	0.027	0.028	0.027	0.025	0.024	0.024	0.023	0.027	0.031	0.022
108 Loomis Street, South Branch Chicago River	0.026	0.027	0.030	0.028	0.026	0.025	0.025	0.024	0.027	0.029	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.026	0.026	0.030	0.025	0.025	0.025	0.025	0.023	0.029	0.036	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.027	0.027	0.029	0.028	0.027	0.025	0.025	0.025	ND	ND	0.019
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.029	0.033	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.026	0.027	0.030	0.027	0.026	0.025	0.026	0.024	0.029	0.031	0.023
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.022	0.023	0.024	0.024	0.021	0.020	0.020	0.019	0.023	0.026	0.018
42 Route 83, Chicago Sanitary & Ship Canal	0.021	0.022	0.024	0.022	0.020	0.020	0.020	0.021	0.023	0.025	0.017
48 Stephen Street, Chicago Sanitary & Ship Canal	0.023	0.023	0.026	0.025	0.023	0.023	0.023	0.023	0.024	0.027	0.020
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.023	0.024	0.026	0.023	0.023	0.023	0.024	0.022	0.026	0.028	0.019
Calumet River System											
49 Ewing Avenue, Calumet River	0.022	0.022	0.022	0.023	0.022	0.022	0.023	0.024	0.026	0.030	0.022
50 Burnham Avenue, Wolf Lake	0.035	0.034	0.034	0.036	0.028	0.033	0.032	0.028	0.029	0.031	0.024
55 130th Street, Calumet River	0.028	0.029	0.030	0.032	0.031	0.030	0.030	0.031	0.035	0.040	0.028
86 Burnham Avenue, Grand Calumet River	0.037	0.028	0.031	0.034	0.029	0.043	0.027	0.031	0.029	0.030	0.025
56 Indiana Avenue, Little Calumet River	0.029	0.033	0.034	0.033	0.031	0.030	0.030	0.030	0.037	0.035	0.029
76 Halsted Street, Little Calumet River	0.021	0.025	0.027	0.024	0.022	0.022	0.022	0.020	0.024	0.030	0.015
52 Wentworth Avenue, Little Calumet River	0.044	0.039	0.040	0.039	0.043	0.037	0.042	0.043	0.045	0.047	0.040
54 Joe Orr Road, Thorn Creek	0.035	0.029	0.031	0.028	0.031	0.042	0.034	0.030	0.030	0.032	0.019
97 170th Street, Thorn Creek	0.041	0.037	0.038	0.035	0.041	0.042	0.042	0.038	0.041	0.043	ND
57 Ashland Avenue, Little Calumet River	0.039	0.037	0.038	0.036	0.042	0.040	0.043	0.039	0.040	0.044	0.034
58 Ashland Avenue, Calumet-Sag Channel	0.029	0.027	0.026	0.026	0.024	0.026	0.025	0.029	0.029	0.030	0.022
59 Cicero Avenue, Calumet-Sag Channel	0.026	0.027	0.027	0.027	0.028	0.024	0.027	0.026	0.028	0.035	0.021
43 Route 83, Calumet-Sag Channel	0.026	0.027	0.027	0.027	0.028	0.025	0.026	0.028	0.030	0.034	0.024
Des Plaines River System											
90 Route 19, Poplar Creek	0.069	0.062	0.071	0.078	0.095	0.112	0.102	0.079	0.071	0.067	0.053
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.047	ND	0.072	0.044
89 Walnut Lane, West Branch DuPage River	0.031	0.029	0.032	0.029	0.030	0.026	0.028	0.028	0.031	0.035	0.025
64 Lake Street, West Branch DuPage River	0.046	0.034	0.039	0.031	0.035	0.033	0.035	0.033	0.037	0.042	0.035
79 Higgins Road, Salt Creek	0.038	0.041	0.051	0.045	0.044	0.053	0.052	0.045	0.048	0.061	0.040
80 Arlington Heights Road, Salt Creek	0.031	0.027	0.031	0.027	0.033	0.033	0.030	0.031	0.030	0.035	0.026
18 Devon Avenue, Salt Creek	0.034	0.028	0.031	0.028	0.033	0.031	0.029	0.030	0.031	0.035	0.028
24 Wolf Road, Salt Creek	0.037	0.034	0.037	0.034	0.035	0.033	0.034	0.031	0.036	0.042	0.034
109 Brookfield Avenue, Salt Creek	0.036	0.034	0.038	0.034	0.036	0.033	0.036	0.034	0.028	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.046	0.048	0.033
77 Elmhurst Road, Higgins Creek	0.061	0.043	0.064	0.043	0.056	0.056	0.067	0.050	0.060	0.072	0.047
78 Wille Road, Higgins Creek	0.026	0.029	0.026	0.024	0.024	0.020	0.024	0.022	0.030	0.032	0.023
12 Lake-Cook Road, Buffalo Creek	0.050	0.042	0.049	0.044	0.047	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.042	0.033	0.040	0.040	0.045	0.038	0.038	0.038	0.044	0.044	0.036
17 Oakton Street, Des Plaines River	0.044	0.035	0.041	0.040	0.046	0.040	0.040	0.041	0.044	0.047	0.039
19 Belmont Avenue, Des Plaines River	0.040	0.034	0.040	0.038	0.043	0.037	0.038	0.037	0.040	0.045	0.034
20 Roosevelt Road, Des Plaines River	0.040	0.034	0.042	0.038	0.044	0.037	0.038	0.035	0.042	0.043	0.034
22 Ogden Avenue, Des Plaines River	0.038	0.034	0.039	0.037	0.042	0.036	0.038	0.036	0.040	0.045	0.034
23 Willow Springs Road, Des Plaines River	0.037	0.033	0.039	0.036	0.039	0.036	0.037	0.034	0.038	0.045	0.031
29 Stephen Street, Des Plaines River	0.038	0.033	0.039	0.037	0.041	0.035	0.037	0.036	0.040	0.045	0.034
91 Material Service Road, Des Plaines River	0.037	0.033	0.039	0.037	0.041	0.035	0.038	0.036	0.039	0.044	0.032
110 Springinguth Road, West Branch DuPage River	0.047	0.045	0.053	0.048	0.054	0.053	0.056	ND	ND	ND	ND

ND = No Data.

**TABLE AII-90: TOTAL BORON MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	0.208
106 Dundee Road, West Fork North Branch Chicago River	0.138	0.160	0.150	0.135	0.129	0.178	0.203	0.147	0.139	0.186	ND
103 Golf Road, West Fork North Branch Chicago River	0.124	0.113	0.104	0.149	0.145	0.191	0.139	0.137	0.159	0.151	ND
31 Lake-Cook Road, Middle Fork North Branch	0.067	0.074	0.085	0.121	0.118	0.176	0.170	0.113	0.122	0.104	0.134
104 Glenview Road, North Branch Chicago River	0.126	0.107	0.115	0.142	0.142	0.182	0.155	0.138	0.167	0.156	ND
32 Lake-Cook Road, Skokie River	0.092	0.093	0.097	0.120	0.135	0.161	0.129	0.137	0.120	0.122	0.161
105 Frontage Road, Skokie River	0.137	0.124	0.121	0.149	0.161	0.188	0.172	0.193	0.186	0.166	ND
34 Dempster Street, North Branch Chicago River	0.107	0.103	0.113	0.139	0.143	0.192	0.153	0.176	0.172	0.132	0.194
96 Albany Avenue, North Branch Chicago River	0.118	0.112	0.109	0.138	0.151	0.185	0.150	0.164	0.169	0.157	0.243
35 Central Street, North Shore Channel	0.000	0.011	0.012	0.036	0.037	0.039	0.037	0.050	0.052	0.030	0.050
102 Oakton Street, North Shore Channel	0.060	0.070	0.060	0.087	0.117	0.093	0.076	0.091	0.118	0.058	ND
36 Touhy Avenue, North Shore Channel	0.160	0.151	0.173	0.185	0.193	0.180	0.172	0.190	0.185	0.211	0.233
101 Foster Avenue, North Shore Channel	0.151	0.147	0.167	0.182	0.192	0.177	0.174	0.176	0.176	0.201	ND
37 Wilson Avenue, North Branch Chicago River	0.138	0.128	0.146	0.160	0.173	0.168	0.161	0.166	0.160	0.183	0.201
73 Diversey Parkway, North Branch Chicago River	0.143	0.123	0.142	0.166	0.166	0.160	0.162	0.175	0.161	0.173	0.205
46 Grand Avenue, North Branch Chicago River	0.132	0.116	0.132	0.154	0.163	0.172	0.160	0.162	0.161	0.178	0.214
74 Lake Shore Drive, Chicago River	0.024	0.023	0.040	0.092	0.067	0.061	0.073	0.057	0.055	0.082	0.091
100 Wells Street, Chicago River	0.044	0.045	0.069	0.079	0.081	0.082	0.092	0.103	0.080	0.091	ND
39 Madison Street, South Branch Chicago River	0.103	0.102	0.109	0.107	0.128	0.132	0.144	0.149	0.140	0.135	0.178
108 Loomis Street, South Branch Chicago River	0.107	0.103	0.109	0.109	0.131	0.135	0.143	0.144	0.136	0.128	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.118	0.099	0.125	0.111	0.117	0.134	0.139	0.143	0.135	0.148	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.108	0.101	0.111	0.106	0.130	0.133	0.141	0.145	ND	ND	0.162
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.136	0.129	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.114	0.095	0.125	0.117	0.124	0.133	0.144	0.145	0.145	0.143	0.174
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.152	0.145	0.166	0.168	0.183	0.176	0.207	0.192	0.184	0.190	0.200
42 Route 83, Chicago Sanitary & Ship Canal	0.221	0.164	0.168	0.208	0.223	0.219	0.261	0.226	0.232	0.206	0.219
48 Stephen Street, Chicago Sanitary & Ship Canal	0.204	0.153	0.175	0.192	0.208	0.216	0.221	0.217	0.227	0.219	0.247
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.203	0.162	0.185	0.196	0.218	0.223	0.206	0.203	0.206	0.209	0.224
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.017	0.017	0.046	0.049	0.042	0.046	0.035	0.039	0.045	0.033
50 Burnham Avenue, Wolf Lake	0.242	0.238	0.181	0.171	0.115	0.147	0.144	0.105	0.104	0.100	0.069
55 130th Street, Calumet River	0.089	0.111	0.119	0.146	0.107	0.113	0.111	0.084	0.120	0.146	0.084
86 Burnham Avenue, Grand Calumet River	0.774	0.345	0.682	0.583	0.601	0.287	0.429	0.430	0.383	0.370	0.371
56 Indiana Avenue, Little Calumet River	0.111	0.122	0.145	0.165	0.137	0.116	0.127	0.128	0.161	0.152	0.159
76 Halsted Street, Little Calumet River	0.173	0.171	0.205	0.194	0.224	0.205	0.189	0.187	0.201	0.228	0.286
52 Wentworth Avenue, Little Calumet River	0.179	0.169	0.262	0.231	0.240	0.224	0.242	0.267	0.321	0.209	0.276
54 Joe Orr Road, Thorn Creek	0.221	0.256	0.324	0.313	0.404	0.269	0.320	0.252	0.353	0.351	0.410
97 170th Street, Thorn Creek	0.194	0.207	0.246	0.222	0.297	0.251	0.269	0.279	0.332	0.254	ND
57 Ashland Avenue, Little Calumet River	0.180	0.191	0.241	0.202	0.258	0.232	0.223	0.265	0.270	0.212	0.321
58 Ashland Avenue, Calumet-Sag Channel	0.176	0.163	0.202	0.173	0.230	0.206	0.194	0.210	0.226	0.232	0.280
59 Cicero Avenue, Calumet-Sag Channel	0.172	0.154	0.201	0.165	0.224	0.199	0.193	0.192	0.207	0.228	0.277
43 Route 83, Calumet-Sag Channel	0.181	0.148	0.187	0.168	0.204	0.207	0.187	0.182	0.194	0.215	0.250
Des Plaines River System											
90 Route 19, Poplar Creek	0.025	0.024	0.047	0.058	0.061	0.071	0.056	0.056	0.056	0.063	0.059
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.040	ND	0.083	0.069
89 Walnut Lane, West Branch DuPage River	0.216	0.203	0.218	0.248	0.247	0.278	0.274	0.264	0.285	0.296	0.285
64 Lake Street, West Branch DuPage River	0.102	0.149	0.183	0.187	0.190	0.238	0.225	0.228	0.224	0.243	0.203
79 Higgins Road, Salt Creek	0.051	0.079	0.082	0.085	0.091	0.098	0.089	0.073	0.100	0.099	0.086
80 Arlington Heights Road, Salt Creek	0.190	0.145	0.176	0.198	0.191	0.205	0.197	0.191	0.207	0.223	0.207
18 Devon Avenue, Salt Creek	0.189	0.135	0.172	0.196	0.196	0.207	0.189	0.187	0.192	0.211	0.195
24 Wolf Road, Salt Creek	0.162	0.145	0.178	0.182	0.188	0.233	0.193	0.177	0.227	0.184	0.182
109 Brookfield Avenue, Salt Creek	0.181	0.150	0.188	0.183	0.210	0.262	0.195	0.198	0.247	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.196	0.176
77 Elmhurst Road, Higgins Creek	0.000	0.055	0.110	0.089	0.083	0.081	0.084	0.063	0.074	0.116	0.083
78 Wille Road, Higgins Creek	0.202	0.193	0.245	0.260	0.289	0.366	0.303	0.282	0.335	0.377	0.367
12 Lake-Cook Road, Buffalo Creek	0.073	0.091	0.100	0.088	0.107	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.141	0.117	0.157	0.155	0.181	0.221	0.191	0.192	0.189	0.167	0.166
17 Oakton Street, Des Plaines River	0.141	0.101	0.144	0.137	0.155	0.215	0.167	0.186	0.191	0.158	0.146
19 Belmont Avenue, Des Plaines River	0.149	0.112	0.154	0.154	0.170	0.236	0.181	0.209	0.207	0.178	0.176
20 Roosevelt Road, Des Plaines River	0.155	0.107	0.168	0.151	0.172	0.237	0.182	0.207	0.218	0.169	0.181
22 Ogden Avenue, Des Plaines River	0.151	0.121	0.169	0.155	0.183	0.236	0.194	0.211	0.214	0.169	0.178
23 Willow Springs Road, Des Plaines River	0.155	0.116	0.170	0.161	0.185	0.243	0.182	0.176	0.219	0.172	0.185
29 Stephen Street, Des Plaines River	0.145	0.110	0.160	0.167	0.192	0.243	0.177	0.195	0.204	0.172	0.182
91 Material Service Road, Des Plaines River	0.148	0.116	0.162	0.173	0.198	0.249	0.179	0.217	0.213	0.165	0.215
110 Springinguth Road, West Branch DuPage River	0.051	0.075	0.088	0.075	0.079	0.078	0.125	ND	ND	ND	ND

ND = No Data.

**TABLE AII-91: TOTAL CADMIUM MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.001	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.004	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	ND	ND	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.000
82 Lockport Treble, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.001
55 130th Street, Calumet River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.002	0.001	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.001	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.001	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.001	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.002	0.001	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
12 Lake-Cook Road, Buffalo Creek	0.002	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.001	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND

ND = No Data.

TABLE AII-92: TOTAL COPPER MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.030	0.035
106 Dundee Road, West Fork North Branch Chicago River	0.004	0.003	0.005	0.006	0.012	0.028	0.025	0.020	0.023	0.027	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.000	0.002	0.004	0.017	0.013	0.015	0.024	0.021	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.005	0.021	0.012	0.013	0.022	0.022	0.011
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.000	0.002	0.005	0.016	0.013	0.013	0.020	0.018	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.000	0.001	0.006	0.017	0.012	0.011	0.019	0.020	0.011
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.002	0.003	0.018	0.014	0.018	0.020	0.017	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.002	0.004	0.018	0.013	0.015	0.021	0.020	0.011
96 Albany Avenue, North Branch Chicago River	0.001	0.000	0.000	0.002	0.004	0.017	0.016	0.016	0.022	0.021	0.024
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.014	0.011	0.012	0.023	0.016	0.007
102 Oakton Street, North Shore Channel	0.001	0.000	0.000	0.001	0.003	0.013	0.012	0.014	0.021	0.016	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.002	0.004	0.017	0.012	0.015	0.024	0.018	0.012
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.003	0.003	0.016	0.014	0.013	0.023	0.014	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.002	0.003	0.016	0.013	0.015	0.023	0.019	0.014
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	0.002	0.003	0.017	0.011	0.015	0.022	0.021	0.015
46 Grand Avenue, North Branch Chicago River	0.003	0.000	0.000	0.003	0.004	0.017	0.015	0.017	0.022	0.017	0.012
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.003	0.002	0.015	0.013	0.014	0.013	0.015	0.011
100 Wells Street, Chicago River	0.001	0.000	0.000	0.004	0.004	0.016	0.015	0.015	0.019	0.015	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.005	0.004	0.017	0.015	0.015	0.020	0.016	0.010
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.007	0.005	0.018	0.018	0.016	0.020	0.017	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.003	0.004	0.015	0.014	0.016	0.017	0.015	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.005	0.006	0.018	0.015	0.017	ND	ND	0.008
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.021	0.027	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.005	0.019	0.015	0.015	0.020	0.020	0.012
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.003	0.003	0.013	0.012	0.013	0.016	0.014	0.012
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.005	0.002	0.015	0.016	0.014	0.017	0.017	0.009
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.004	0.002	0.015	0.020	0.015	0.017	0.015	0.011
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.002	0.003	0.016	0.013	0.014	0.020	0.016	0.009
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.004	0.013	0.010	0.011	0.015	0.015	0.009
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.002	0.014	0.011	0.013	0.013	0.018	0.007
55 130th Street, Calumet River	0.000	0.000	0.000	0.001	0.006	0.013	0.013	0.012	0.015	0.017	0.008
86 Burnham Avenue, Grand Calumet River	0.001	0.000	0.000	0.004	0.006	0.038	0.016	0.017	0.020	0.022	0.023
56 Indiana Avenue, Little Calumet River	0.000	0.002	0.000	0.005	0.004	0.015	0.013	0.013	0.020	0.014	0.010
76 Halsted Street, Little Calumet River	0.000	0.028	0.001	0.001	0.002	0.015	0.010	0.010	0.016	0.017	0.010
52 Wentworth Avenue, Little Calumet River	0.001	0.000	0.000	0.002	0.003	0.015	0.015	0.012	0.019	0.019	0.016
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.020	0.014	0.008	0.013	0.017	0.010
97 170th Street, Thorn Creek	0.001	0.000	0.000	0.003	0.002	0.017	0.016	0.014	0.016	0.018	ND
57 Ashland Avenue, Little Calumet River	0.001	0.007	0.000	0.004	0.002	0.019	0.014	0.010	0.017	0.021	0.013
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.013	0.000	0.001	0.002	0.020	0.011	0.011	0.017	0.017	0.011
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.002	0.014	0.011	0.011	0.016	0.018	0.008
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.002	0.014	0.012	0.013	0.018	0.019	0.009
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.001	0.001	0.015	0.009	0.012	0.016	0.014	0.006
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.017	ND	0.019	0.007
89 Walnut Lane, West Branch DuPage River	0.002	0.003	0.003	0.006	0.007	0.021	0.018	0.018	0.023	0.020	0.011
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.005	0.006	0.022	0.016	0.019	0.021	0.019	0.008
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.002	0.001	0.017	0.011	0.014	0.021	0.014	0.008
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.002	0.003	0.018	0.013	0.017	0.018	0.021	0.011
18 Devon Avenue, Salt Creek	0.000	0.001	0.000	0.002	0.003	0.021	0.012	0.016	0.019	0.016	0.011
24 Wolf Road, Salt Creek	0.001	0.000	0.001	0.005	0.006	0.020	0.013	0.017	0.020	0.018	0.011
109 Brookfield Avenue, Salt Creek	0.003	0.001	0.001	0.005	0.007	0.020	0.014	0.022	0.024	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.016	0.022	0.011
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.003	0.005	0.006	0.016	0.017	0.018	0.019	0.017	0.009
78 Wille Road, Higgins Creek	0.000	0.000	0.001	0.001	0.001	0.017	0.012	0.014	0.018	0.016	0.011
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.001	0.002	0.017	0.013	0.016	0.019	0.015	0.010
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.002	0.002	0.016	0.012	0.015	0.018	0.014	0.010
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.002	0.003	0.019	0.014	0.016	0.021	0.017	0.012
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.001	0.003	0.003	0.017	0.011	0.017	0.022	0.015	0.010
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.004	0.004	0.020	0.012	0.017	0.020	0.019	0.012
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.003	0.004	0.021	0.012	0.015	0.023	0.017	0.010
29 Stephen Street, Des Plaines River	0.001	0.000	0.000	0.003	0.004	0.019	0.011	0.016	0.022	0.017	0.011
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.003	0.003	0.017	0.014	0.015	0.019	0.019	0.011
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.002	0.001	0.017	0.012	ND	ND	ND	ND

ND = No Data.

**TABLE AII-93: TOTAL CHROMIUM MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.009
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.002	0.002	0.003	0.004	0.000	0.001	0.003	0.006	0.005	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.002	0.001	0.002	0.002	0.000	0.000	0.001	0.007	0.006	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.001	0.001	0.002	0.003	0.000	0.000	0.001	0.006	0.004	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.002	0.001	0.001	0.003	0.000	0.001	0.000	0.005	0.003	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.001	0.001	0.003	0.000	0.000	0.000	0.001	0.005	0.002
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	0.001	ND
34 Dempster Street, North Branch Chicago River	0.000	0.002	0.001	0.002	0.002	0.000	0.000	0.001	0.007	0.003	0.000
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.004	0.001
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.008	0.003	0.000
102 Oakton Street, North Shore Channel	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.002	0.003	0.004	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.005	0.002	0.003
101 Foster Avenue, North Shore Channel	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.003	0.001	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.006	0.003	0.001
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.002	0.004	0.004	0.002
46 Grand Avenue, North Branch Chicago River	0.000	0.002	0.003	0.003	0.002	0.000	0.001	0.003	0.005	0.002	0.002
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.002	0.001	0.000	0.000	0.001	0.003	0.002	0.002
100 Wells Street, Chicago River	0.000	0.000	0.001	0.003	0.001	0.000	0.000	0.001	0.004	0.005	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.002	0.004	0.001	0.000	0.001	0.002	0.005	0.003	0.003
108 Loomis Street, South Branch Chicago River	0.001	0.001	0.004	0.004	0.002	0.000	0.001	0.002	0.005	0.003	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.002	0.002	0.001	0.000	0.000	0.002	0.008	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.002	0.004	0.003	0.002	0.000	0.001	0.003	ND	ND	0.002
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.004	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.005	0.003	0.002	0.001	0.001	0.003	0.006	0.003	0.005
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.002	0.008	0.003	0.002	0.000	0.001	0.003	0.004	0.005	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.002	0.002	0.004	0.002	0.000	0.003	0.004	0.005	0.002	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.003	0.002	0.004	0.002	0.002	0.002	0.004	0.004	0.005	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.003	0.003	0.002	0.002	0.001	0.002	0.003	0.007	0.004	0.002
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.000	0.001	0.002	0.001	0.000	0.000	0.000	0.002	0.002	0.003
50 Burnham Avenue, Wolf Lake	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.004	0.002	0.001
55 130th Street, Calumet River	0.000	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.003	0.000	0.002
86 Burnham Avenue, Grand Calumet River	0.000	0.002	0.001	0.003	0.003	0.009	0.002	0.004	0.003	0.006	0.006
56 Indiana Avenue, Little Calumet River	0.000	0.004	0.002	0.003	0.002	0.000	0.000	0.001	0.006	0.002	0.003
76 Halsted Street, Little Calumet River	0.000	0.001	0.002	0.002	0.002	0.000	0.001	0.001	0.001	0.004	0.003
52 Wentworth Avenue, Little Calumet River	0.003	0.003	0.001	0.002	0.002	0.001	0.001	0.001	0.007	0.003	0.003
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.000	0.001	0.001	0.004	0.000	0.003	0.005	0.002	0.003
97 170th Street, Thorn Creek	0.002	0.001	0.001	0.002	0.002	0.001	0.002	0.003	0.005	0.008	ND
57 Ashland Avenue, Little Calumet River	0.002	0.003	0.001	0.004	0.002	0.002	0.002	0.002	0.007	0.003	0.004
58 Ashland Avenue, Calumet-Sag Channel	0.001	0.001	0.002	0.003	0.001	0.000	0.001	0.002	0.006	0.003	0.003
59 Cicero Avenue, Calumet-Sag Channel	0.001	0.001	0.003	0.002	0.002	0.000	0.002	0.003	0.005	0.005	0.004
43 Route 83, Calumet-Sag Channel	0.000	0.001	0.001	0.002	0.002	0.000	0.000	0.004	0.005	0.004	0.004
Des Plaines River System											
90 Route 19, Poplar Creek	0.002	0.001	0.003	0.001	0.001	0.000	0.000	0.001	0.003	0.005	0.002
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.009	0.001
89 Walnut Lane, West Branch DuPage River	0.002	0.002	0.003	0.001	0.001	0.000	0.000	0.001	0.002	0.004	0.001
64 Lake Street, West Branch DuPage River	0.001	0.001	0.002	0.002	0.002	0.000	0.000	0.001	0.003	0.005	0.001
79 Higgins Road, Salt Creek	0.001	0.001	0.001	0.002	0.002	0.001	0.000	0.003	0.009	0.005	0.001
80 Arlington Heights Road, Salt Creek	0.000	0.002	0.000	0.001	0.001	0.000	0.000	0.000	0.003	0.005	0.001
18 Devon Avenue, Salt Creek	0.000	0.002	0.000	0.001	0.001	0.001	0.000	0.001	0.001	0.002	0.002
24 Wolf Road, Salt Creek	0.001	0.002	0.001	0.002	0.003	0.001	0.000	0.004	0.007	0.006	0.004
109 Brookfield Avenue, Salt Creek	0.001	0.001	0.002	0.002	0.007	0.003	0.003	0.003	0.007	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.006	0.003
77 Elmhurst Road, Higgins Creek	0.000	0.002	0.004	0.003	0.003	0.000	0.000	0.003	0.004	0.001	0.002
78 Wille Road, Higgins Creek	0.000	0.001	0.001	0.001	0.001	0.000	0.001	0.002	0.004	0.004	0.003
12 Lake-Cook Road, Buffalo Creek	0.002	0.004	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.003	0.001
17 Oakton Street, Des Plaines River	0.000	0.002	0.001	0.001	0.001	0.000	0.000	0.003	0.004	0.005	0.003
19 Belmont Avenue, Des Plaines River	0.001	0.006	0.002	0.002	0.002	0.013	0.000	0.031	0.002	0.005	0.003
20 Roosevelt Road, Des Plaines River	0.002	0.002	0.002	0.002	0.002	0.004	0.000	0.018	0.004	0.005	0.003
22 Ogden Avenue, Des Plaines River	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.003	0.004	0.005	0.005
23 Willow Springs Road, Des Plaines River	0.013	0.002	0.002	0.002	0.003	0.005	0.001	0.004	0.002	0.005	0.003
29 Stephen Street, Des Plaines River	0.001	0.002	0.001	0.002	0.004	0.003	0.001	0.003	0.001	0.005	0.005
91 Material Service Road, Des Plaines River	0.001	0.001	0.003	0.002	0.002	0.002	0.001	0.003	0.004	0.005	0.002
110 Springinguth Road, West Branch DuPage River	0.000	0.001	0.002	0.001	0.001	0.000	0.001	ND	ND	ND	ND

ND = No Data.

TABLE AII-94: TOTAL HEXAVALENT CHROMIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (µg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.500	1.800	3.500	0.000	2.000	0.000	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.727	0.500	1.400	0.500	0.375	0.000	0.000	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.182	1.300	0.000	0.000	0.000	0.000	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.364	0.667	1.500	0.167	0.000	0.000	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.600	0.333	0.909	0.000	0.556	0.000	0.000	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.364	0.750	1.250	0.000	0.500	0.000	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.545	1.000	1.909	0.167	0.455	0.000	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.636	0.333	1.273	0.364	0.400	0.000	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.333	0.889	1.750	0.000	0.444	0.000	0.000	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.583	0.333	1.750	0.167	0.300	0.000	0.000	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	1.083	0.500	1.333	0.583	0.000	0.000	0.000	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.583	0.667	1.846	0.417	0.500	0.000	0.000	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.167	0.667	1.833	0.333	0.500	0.000	0.000	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.333	0.750	1.583	0.750	0.667	0.000	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.545	0.333	1.667	0.667	0.667	0.000	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.909	0.364	0.400	0.222	0.400	0.000	0.000	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	1.000	0.417	0.417	0.333	0.500	0.167	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.545	0.750	0.667	0.417	0.364	0.000	0.000	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.167	0.667	0.500	0.333	0.500	0.167	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.364	0.286	0.909	0.417	0.500	0.000	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.583	0.500	0.833	0.333	ND	ND	ND	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	1.417	1.083	0.583	0.750	0.333	0.250	0.000	0.000	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	2.909	0.333	0.500	0.667	0.333	0.667	0.000	0.000	
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.182	0.667	0.818	0.333	0.167	0.000	0.000	
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.636	0.667	0.909	0.333	0.167	0.000	0.000	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.540	0.627	1.442	0.404	0.442	0.000	0.000	
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.400	0.364	0.818	0.400	0.583	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.545	0.636	1.167	0.167	0.833	0.000	0.000	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.400	0.818	1.091	0.182	1.000	0.000	0.000	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.200	0.818	1.700	0.444	0.700	0.000	0.000	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.500	0.818	1.000	0.444	0.000	0.000	0.000	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.909	0.818	1.583	0.000	0.545	0.000	0.000	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.727	0.727	1.364	0.000	1.200	0.000	0.000	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.200	0.667	2.500	0.000	0.667	0.000	0.000	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	1.000	0.818	1.636	0.000	1.200	0.000	0.000	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.364	1.091	1.545	0.200	0.300	0.000	0.000	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.727	0.909	1.500	0.167	0.583	0.000	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.273	0.727	1.583	0.167	1.273	0.000	0.000	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.273	1.000	1.273	0.000	1.273	0.000	0.000	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.417	1.455	1.091	0.700	0.000	0.000	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.417	0.417	1.250	1.091	0.364	0.000	0.000	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.750	0.833	1.583	1.167	0.750	0.000	0.000	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.200	0.778	1.778	1.091	0.667	0.000	0.000	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.167	0.167	2.250	1.000	0.500	0.000	0.000	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.417	0.333	1.667	1.167	0.333	0.000	0.000	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.182	0.417	2.333	0.636	0.583	0.000	0.000	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.182	3.500	1.917	2.364	0.900	0.000	0.000	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.400	0.714	1.000	0.667	0.200	0.000	0.000	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.167	0.500	1.333	0.364	0.750	0.000	0.000	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.333	0.778	ND	ND	ND	ND	ND	
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.833	0.000	1.583	0.909	0.667	0.000	0.000	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.182	0.167	1.417	1.000	0.500	0.000	0.000	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.583	10.333	1.000	0.750	0.000	0.000	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.364	0.417	3.833	0.636	1.143	0.000	0.000	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.364	0.667	1.500	0.727	0.000	0.000	0.000	ND
23 Willow Springs Road, Des Plaines River	11.583	0.000	0.000	0.182	0.833	3.083	1.273	0.700	0.000	0.000	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.750	1.500	0.727	0.909	0.000	0.000	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.273	0.750	1.417	0.545	0.667	0.000	0.000	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.600	0.545	1.727	1.300	ND	ND	ND	

ND = No Data.

**TABLE AII-95: TOTAL IRON MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	1.795	3.350	
106 Dundee Road, West Fork North Branch Chicago River	0.991	1.346	1.915	1.138	2.559	1.173	1.846	1.601	0.913	1.349	ND
103 Golf Road, West Fork North Branch Chicago River	0.571	1.029	0.838	0.573	1.142	0.864	0.698	0.823	1.037	0.953	ND
31 Lake-Cook Road, Middle Fork North Branch	0.698	0.894	1.080	0.853	1.924	0.817	0.917	0.922	0.934	1.443	0.634
104 Glenview Road, North Branch Chicago River	0.614	0.885	0.909	0.617	1.421	0.598	0.705	0.847	0.705	0.707	ND
32 Lake-Cook Road, Skokie River	0.602	0.976	1.095	0.846	1.756	0.867	0.922	0.683	0.831	1.040	0.565
105 Frontage Road, Skokie River	0.459	0.631	0.711	0.584	0.591	0.476	0.856	0.534	0.580	0.528	ND
34 Dempster Street, North Branch Chicago River	0.469	0.828	0.921	0.693	1.091	0.697	0.703	0.744	0.889	0.957	0.502
96 Albany Avenue, North Branch Chicago River	0.605	0.797	1.098	0.595	0.917	0.646	0.722	0.701	0.889	0.666	0.320
35 Central Street, North Shore Channel	0.174	0.278	0.300	0.209	0.322	0.329	0.297	0.256	0.355	0.357	0.268
102 Oakton Street, North Shore Channel	0.553	0.340	0.490	0.388	0.394	0.358	0.393	0.522	0.466	0.560	ND
36 Touhy Avenue, North Shore Channel	0.134	0.173	0.198	0.158	0.180	0.209	0.241	0.171	0.310	0.284	0.178
101 Foster Avenue, North Shore Channel	0.171	0.182	0.259	0.185	0.214	0.306	0.320	0.236	0.347	0.295	ND
37 Wilson Avenue, North Branch Chicago River	0.309	0.458	0.484	0.322	0.361	0.306	0.385	0.355	0.490	0.450	0.248
73 Diversey Parkway, North Branch Chicago River	0.274	0.478	0.459	0.373	0.401	0.319	0.384	0.509	0.560	0.538	0.305
46 Grand Avenue, North Branch Chicago River	0.320	0.546	0.479	0.552	0.506	0.386	0.637	0.466	0.594	0.531	0.328
74 Lake Shore Drive, Chicago River	0.090	0.103	0.148	0.161	0.099	0.127	0.136	0.158	0.199	0.219	0.192
100 Wells Street, Chicago River	0.126	0.182	0.292	0.172	0.178	0.171	0.180	0.222	0.248	0.347	ND
39 Madison Street, South Branch Chicago River	0.336	0.410	0.477	0.527	0.294	0.326	0.394	0.389	0.439	0.550	0.386
108 Loomis Street, South Branch Chicago River	0.360	0.437	0.566	0.543	0.397	0.327	0.382	0.392	0.417	0.481	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.394	0.460	0.483	0.379	0.384	0.393	0.462	0.455	0.599	0.822	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.393	0.460	0.513	0.495	0.465	0.360	0.488	0.446	ND	ND	0.258
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.507	0.717	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.389	0.523	0.473	0.509	0.494	0.401	0.484	0.493	0.545	0.621	0.379
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.207	0.340	0.286	0.418	0.295	0.256	0.270	0.261	0.330	0.331	0.262
42 Route 83, Chicago Sanitary & Ship Canal	0.209	0.307	0.364	0.425	0.247	0.247	0.293	0.318	0.336	0.324	0.182
48 Stephen Street, Chicago Sanitary & Ship Canal	0.345	0.506	0.630	0.641	0.511	0.473	0.509	0.516	0.429	0.466	0.316
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.616
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.338	0.561	0.593	0.454	0.477	0.443	0.445	0.434	0.505	0.493	0.320
Calumet River System											
49 Ewing Avenue, Calumet River	0.067	0.173	0.210	0.355	0.308	0.202	0.293	0.249	0.268	0.429	0.317
50 Burnham Avenue, Wolf Lake	0.082	0.117	0.065	0.165	0.065	0.148	0.100	0.110	0.134	0.203	0.123
55 130th Street, Calumet River	0.103	0.183	0.234	0.339	0.479	0.257	0.244	0.330	0.345	0.437	0.365
86 Burnham Avenue, Grand Calumet River	1.404	1.010	1.108	1.567	1.217	2.100	1.194	1.315	1.335	1.111	1.126
56 Indiana Avenue, Little Calumet River	0.288	0.650	0.861	0.701	0.587	0.684	0.576	0.791	1.014	0.633	0.470
76 Halsted Street, Little Calumet River	0.222	0.381	0.698	0.390	0.380	0.321	0.382	0.330	0.449	0.511	0.329
52 Wentworth Avenue, Little Calumet River	3.213	1.980	1.189	1.842	1.676	1.388	1.469	1.350	1.973	1.504	1.156
54 Joe Orr Road, Thorn Creek	1.170	0.739	0.332	0.489	0.317	2.309	0.681	1.481	0.445	0.594	0.433
97 170th Street, Thorn Creek	2.409	1.223	0.825	1.459	1.217	1.516	1.468	1.088	0.867	1.623	ND
57 Ashland Avenue, Little Calumet River	2.236	1.307	0.785	1.423	1.126	1.514	1.678	1.084	0.980	1.435	0.642
58 Ashland Avenue, Calumet-Sag Channel	0.906	0.606	0.549	0.757	0.461	0.548	0.543	0.787	0.616	0.639	0.439
59 Cicero Avenue, Calumet-Sag Channel	0.665	0.643	0.782	0.830	0.780	0.524	0.664	0.745	0.637	0.764	0.478
43 Route 83, Calumet-Sag Channel	0.430	0.784	0.578	0.706	0.722	0.514	0.505	0.973	0.751	0.947	0.546
Des Plaines River System											
90 Route 19, Poplar Creek	0.796	0.750	0.959	0.672	1.105	1.031	0.619	0.982	0.846	0.840	0.611
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	1.353	ND	1.256	0.844
89 Walnut Lane, West Branch DuPage River	0.446	0.334	0.607	0.363	0.333	0.383	0.423	0.608	0.432	0.477	0.417
64 Lake Street, West Branch DuPage River	0.913	0.807	1.035	0.879	1.017	1.009	0.863	1.154	0.894	1.062	0.773
79 Higgins Road, Salt Creek	1.280	1.223	1.264	1.286	1.306	1.534	0.869	1.666	1.448	1.119	0.858
80 Arlington Heights Road, Salt Creek	0.298	0.538	0.333	0.447	0.397	0.344	0.420	0.345	0.343	0.511	0.350
18 Devon Avenue, Salt Creek	0.374	0.619	0.427	0.533	0.488	0.421	0.539	0.590	0.434	0.660	0.518
24 Wolf Road, Salt Creek	0.785	0.909	0.929	1.071	1.287	0.875	0.732	1.312	0.662	0.859	0.621
109 Brookfield Avenue, Salt Creek	0.716	0.934	0.908	0.941	1.371	0.903	0.701	1.580	0.605	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.583	1.204	0.695
77 Elmhurst Road, Higgins Creek	0.780	0.770	1.844	0.960	1.375	0.866	1.061	1.454	1.179	1.127	0.733
78 Wille Road, Higgins Creek	0.078	0.137	0.236	0.177	0.153	0.160	0.184	0.227	0.417	0.334	0.214
12 Lake-Cook Road, Buffalo Creek	1.391	1.227	1.054	1.261	1.086	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.682	0.976	0.788	0.863	0.920	0.892	0.757	0.964	0.829	0.992	0.678
17 Oakton Street, Des Plaines River	0.525	1.019	0.902	0.812	0.875	0.722	0.726	1.499	0.632	1.024	0.770
19 Belmont Avenue, Des Plaines River	0.681	0.971	0.975	0.883	0.892	0.682	0.673	1.145	0.680	0.887	0.631
20 Roosevelt Road, Des Plaines River	0.698	1.030	0.979	0.865	0.871	0.766	0.688	1.292	0.749	0.760	0.632
22 Ogden Avenue, Des Plaines River	0.773	1.055	0.916	1.081	1.161	0.850	0.710	1.300	0.679	0.869	0.611
23 Willow Springs Road, Des Plaines River	0.634	0.992	0.872	0.880	0.932	0.727	0.702	1.068	0.611	1.007	0.652
29 Stephen Street, Des Plaines River	0.715	1.074	0.796	0.849	0.907	0.756	0.805	1.176	0.679	1.195	0.707
91 Material Service Road, Des Plaines River	0.713	0.862	0.762	0.765	0.966	0.790	0.810	1.213	0.754	1.216	0.669
110 Springinsguth Road, West Branch DuPage River	1.005	1.387	1.469	1.348	1.222	1.425	1.342	ND	ND	ND	ND

ND = No Data.

TABLE AII-96: TOTAL LEAD MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.022	0.010	0.005	0.007	0.006	0.006	0.006	0.000	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.012	0.004	0.005	0.006	0.005	0.007	0.004	0.002	0.010	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.009	0.004	0.006	0.007	0.004	0.006	0.004	0.002	0.006	0.004
104 Glenview Road, North Branch Chicago River	0.000	0.019	0.007	0.005	0.008	0.003	0.006	0.007	0.002	0.002	ND
32 Lake-Cook Road, Skokie River	0.000	0.011	0.006	0.007	0.007	0.003	0.008	0.004	0.002	0.001	0.004
105 Frontage Road, Skokie River	0.000	0.018	0.005	0.006	0.006	0.003	0.007	0.006	0.002	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.016	0.007	0.005	0.007	0.005	0.006	0.076	0.002	0.003	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.018	0.009	0.006	0.007	0.005	0.008	0.006	0.002	0.004	0.000
35 Central Street, North Shore Channel	0.000	0.009	0.004	0.002	0.003	0.002	0.005	0.003	0.002	0.006	0.000
102 Oakton Street, North Shore Channel	0.000	0.010	0.007	0.005	0.004	0.004	0.004	0.006	0.002	0.005	ND
36 Touhy Avenue, North Shore Channel	0.000	0.020	0.005	0.004	0.004	0.003	0.005	0.004	0.001	0.005	0.003
101 Foster Avenue, North Shore Channel	0.000	0.017	0.006	0.004	0.004	0.003	0.005	0.005	0.001	0.000	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.016	0.007	0.005	0.005	0.003	0.006	0.031	0.001	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.016	0.006	0.005	0.005	0.004	0.006	0.125	0.001	0.027	0.003
46 Grand Avenue, North Branch Chicago River	0.000	0.016	0.007	0.008	0.007	0.005	0.008	0.105	0.002	0.006	0.005
74 Lake Shore Drive, Chicago River	0.000	0.003	0.006	0.008	0.008	0.004	0.006	0.003	0.001	0.000	0.003
100 Wells Street, Chicago River	0.000	0.004	0.006	0.006	0.010	0.004	0.005	0.004	0.001	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.004	0.007	0.010	0.010	0.006	0.007	0.006	0.002	0.000	0.003
108 Loomis Street, South Branch Chicago River	0.001	0.013	0.009	0.010	0.011	0.006	0.007	0.007	0.002	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.006	0.006	0.008	0.007	0.007	0.008	0.008	0.003	0.007	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.007	0.008	0.009	0.011	0.007	0.009	0.008	ND	ND	0.009
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.011	0.008	0.010	0.011	0.007	0.009	0.009	0.003	0.000	0.006
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.010	0.007	0.008	0.008	0.004	0.006	0.006	0.002	0.003	0.254
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.013	0.009	0.008	0.007	0.005	0.007	0.007	0.002	0.000	0.003
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.013	0.007	0.009	0.008	0.007	0.009	0.008	0.002	0.000	0.004
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.013	0.008	0.006	0.007	0.006	0.007	0.007	0.003	0.002	0.001
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.004	0.010	0.004	0.003	0.005	0.004	0.002	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.002	0.004	0.007	0.003	0.004	0.003	0.004	0.002	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.002	0.006	0.008	0.004	0.005	0.004	0.002	0.002	0.010
86 Burnham Avenue, Grand Calumet River	0.000	0.004	0.007	0.012	0.013	0.034	0.015	0.014	0.002	0.000	0.005
56 Indiana Avenue, Little Calumet River	0.002	0.000	0.005	0.027	0.006	0.006	0.006	0.007	0.003	0.003	0.003
76 Halsted Street, Little Calumet River	0.000	0.009	0.010	0.042	0.006	0.005	0.007	0.006	0.003	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.006	0.005	0.005	0.006	0.005	0.007	0.005	0.003	0.005	0.003
54 Joe Orr Road, Thorn Creek	0.000	0.004	0.002	0.004	0.004	0.016	0.005	0.005	0.000	0.003	0.008
97 170th Street, Thorn Creek	0.000	0.004	0.004	0.007	0.006	0.007	0.010	0.006	0.003	0.000	ND
57 Ashland Avenue, Little Calumet River	0.002	0.002	0.005	0.007	0.006	0.008	0.011	0.007	0.002	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.002	0.008	0.006	0.007	0.006	0.010	0.007	0.006	0.004	0.003	0.003
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.002	0.005	0.006	0.007	0.005	0.009	0.007	0.003	0.001	0.000
43 Route 83, Calumet-Sag Channel	0.001	0.003	0.004	0.006	0.008	0.008	0.007	0.009	0.004	0.068	0.006
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.013	0.007	0.003	0.004	0.003	0.008	0.004	0.002	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.000	0.003
89 Walnut Lane, West Branch DuPage River	0.000	0.015	0.006	0.004	0.005	0.003	0.010	0.006	0.009	0.000	0.003
64 Lake Street, West Branch DuPage River	0.000	0.014	0.007	0.004	0.005	0.012	0.008	0.005	0.002	0.000	0.004
79 Higgins Road, Salt Creek	0.000	0.002	0.005	0.005	0.006	0.005	0.009	0.006	0.003	0.052	0.004
80 Arlington Heights Road, Salt Creek	0.000	0.015	0.007	0.003	0.005	0.003	0.007	0.004	0.001	0.000	0.008
18 Devon Avenue, Salt Creek	0.000	0.011	0.013	0.003	0.004	0.004	0.006	0.004	0.002	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.014	0.006	0.006	0.007	0.004	0.008	0.007	0.003	0.005	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.015	0.007	0.006	0.007	0.005	0.009	0.008	0.005	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.005	0.004
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.006	0.009	0.008	0.004	0.011	0.008	0.002	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.016	0.007	0.004	0.004	0.004	0.007	0.004	0.003	0.002	0.000
12 Lake-Cook Road, Buffalo Creek	0.002	0.019	0.008	0.006	0.005	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.014	0.007	0.005	0.004	0.003	0.022	0.005	0.003	0.027	0.004
17 Oakton Street, Des Plaines River	0.000	0.012	0.007	0.005	0.005	0.004	0.007	0.006	0.003	0.002	0.004
19 Belmont Avenue, Des Plaines River	0.000	0.015	0.007	0.005	0.006	0.005	0.008	0.006	0.003	0.000	0.012
20 Roosevelt Road, Des Plaines River	0.000	0.014	0.007	0.005	0.007	0.005	0.008	0.005	0.002	0.002	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.012	0.008	0.006	0.008	0.005	0.008	0.008	0.002	0.003	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.012	0.008	0.006	0.007	0.005	0.012	0.007	0.003	0.000	0.004
29 Stephen Street, Des Plaines River	0.000	0.012	0.008	0.005	0.006	0.005	0.009	0.008	0.002	0.002	0.000
91 Material Service Road, Des Plaines River	0.000	0.014	0.007	0.007	0.007	0.005	0.009	0.008	0.002	0.007	0.003
110 Springinguth Road, West Branch DuPage River	0.000	0.002	0.008	0.005	0.005	0.004	0.010	ND	ND	ND	ND

ND = No Data.

**TABLE AII-97: TOTAL NICKEL MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.020
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.000	0.000	0.003	0.003	0.003	0.003	0.004	0.005	0.006	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.000	0.001	0.002	0.003	0.001	0.003	0.006	0.004	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.005	0.006	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.002	0.002	0.003	0.001	0.004	0.003	ND
32 Lake-Cook Road, Skokie River	0.002	0.000	0.000	0.001	0.002	0.001	0.001	0.002	0.005	0.006	0.000
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.001	0.001	0.001	0.002	0.005	0.004	0.003	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.002	0.002	0.002	0.001	0.003	0.004	0.004	0.001
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.002	0.002	0.004	0.003	0.005	0.003	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.003	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.003	0.005	0.004	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.005	0.004	0.006	0.004
101 Foster Avenue, North Shore Channel	0.000	0.001	0.000	0.002	0.002	0.003	0.002	0.005	0.006	0.007	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.002	0.002	0.003	0.003	0.005	0.005	0.007	0.007
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	0.002	0.002	0.003	0.002	0.006	0.009	0.008	0.004
46 Grand Avenue, North Branch Chicago River	0.000	0.002	0.000	0.004	0.004	0.004	0.004	0.008	0.008	0.007	0.004
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.003	0.007	0.003
100 Wells Street, Chicago River	0.001	0.000	0.000	0.002	0.001	0.002	0.002	0.004	0.004	0.011	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.012	0.003	0.004	0.003	0.006	0.007	0.008	0.004
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.004	0.003	0.004	0.003	0.006	0.007	0.004	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.003	0.003	0.004	0.003	0.005	0.006	0.005	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.003	0.003	0.004	0.003	0.007	ND	ND	0.003
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.006	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.003	0.003	0.004	0.003	0.007	0.006	0.005	0.005
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.004	0.005	0.006	0.005	0.005	0.008	0.005	0.003
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.006	0.005	0.006	0.007	0.008	0.009	0.006	0.005
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.004	0.006	0.006	0.007	0.009	0.006	0.005
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.004	0.005	0.006	0.005	0.006	0.008	0.005	0.002
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.003
50 Burnham Avenue, Wolf Lake	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.004	0.001
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.003	0.003	0.005	0.004	0.005	0.009	0.006	0.002
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.004	0.002	0.002	0.002	0.003	0.006	0.002	0.003
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.003	0.002	0.004	0.002	0.004	0.004	0.003	0.004
52 Wentworth Avenue, Little Calumet River	0.002	0.000	0.000	0.002	0.002	0.003	0.003	0.002	0.005	0.004	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.001	0.001	0.004	0.001	0.003	0.005	0.002	0.002
97 170th Street, Thorn Creek	0.004	0.000	0.000	0.003	0.004	0.007	0.005	0.003	0.007	0.005	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.004	0.003	0.005	0.004	0.004	0.010	0.005	0.001
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.003	0.002	0.003	0.003	0.004	0.004	0.004	0.003
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.003	0.003	0.003	0.003	0.005	0.005	0.004	0.002
43 Route 83, Calumet-Sag Channel	0.001	0.000	0.000	0.003	0.003	0.004	0.002	0.005	0.006	0.005	0.003
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.002	0.000	0.001	0.002	0.000	0.001	0.003	0.002	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.004	0.000
89 Walnut Lane, West Branch DuPage River	0.001	0.003	0.001	0.002	0.003	0.003	0.001	0.001	0.005	0.002	0.000
64 Lake Street, West Branch DuPage River	0.000	0.004	0.000	0.003	0.004	0.004	0.002	0.002	0.004	0.003	0.002
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.002	0.002	0.004	0.002	0.002	0.006	0.004	0.000
80 Arlington Heights Road, Salt Creek	0.003	0.000	0.000	0.003	0.002	0.003	0.002	0.002	0.005	0.003	0.000
18 Devon Avenue, Salt Creek	0.004	0.000	0.000	0.003	0.002	0.003	0.002	0.003	0.004	0.002	0.000
24 Wolf Road, Salt Creek	0.003	0.000	0.000	0.004	0.004	0.005	0.005	0.004	0.009	0.004	0.002
109 Brookfield Avenue, Salt Creek	0.002	0.000	0.000	0.004	0.004	0.006	0.005	0.004	0.011	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.009	0.002
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.004	0.000
78 Wille Road, Higgins Creek	0.004	0.000	0.002	0.007	0.007	0.014	0.006	0.005	0.009	0.008	0.003
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.006	0.002	0.002	0.005	0.003	0.005	0.005	0.003	0.000
17 Oakton Street, Des Plaines River	0.000	0.002	0.000	0.001	0.002	0.004	0.002	0.004	0.005	0.003	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.002	0.000	0.003	0.003	0.006	0.003	0.005	0.006	0.003	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.002	0.003	0.006	0.003	0.004	0.007	0.003	0.002
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.003	0.004	0.006	0.003	0.005	0.008	0.004	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.003	0.003	0.006	0.003	0.004	0.007	0.004	0.002
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.003	0.003	0.005	0.003	0.005	0.007	0.003	0.002
91 Material Service Road, Des Plaines River	0.000	0.500	0.000	0.003	0.003	0.005	0.004	0.005	0.007	0.004	0.001
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.002	0.002	0.003	0.003	ND	ND	ND	ND

ND = No Data.

**TABLE AII-98: TOTAL MANGANESE MEAN HISTORY
2000 THROUGH 2010**

		Annual Means (mg/L)										
Sampling Station (No. Name)		10	09	08	07	06	05	04	03	02	01	00
Chicago River System												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.122	0.139
106	Dundee Road, West Fork North Branch Chicago River	0.094	0.080	0.089	0.075	0.087	0.083	0.097	0.097	0.067	0.110	ND
103	Golf Road, West Fork North Branch Chicago River	0.066	0.076	0.069	0.074	0.068	0.087	0.067	0.070	0.091	0.098	ND
31	Lake-Cook Road, Middle Fork North Branch	0.171	0.078	0.084	0.148	0.084	0.128	0.092	0.077	0.148	0.107	0.080
104	Glenview Road, North Branch Chicago River	0.072	0.087	0.073	0.062	0.072	0.080	0.060	0.062	0.060	0.078	ND
32	Lake-Cook Road, Skokie River	0.120	0.085	0.095	0.120	0.086	0.124	0.137	0.081	0.096	0.131	0.100
105	Frontage Road, Skokie River	0.069	0.056	0.059	0.055	0.038	0.045	0.086	0.108	0.046	0.057	ND
34	Dempster Street, North Branch Chicago River	0.069	0.067	0.072	0.068	0.064	0.072	0.065	0.112	0.083	0.098	0.067
96	Albany Avenue, North Branch Chicago River	0.058	0.060	0.085	0.068	0.060	0.059	0.062	0.072	0.057	0.068	0.035
35	Central Street, North Shore Channel	0.020	0.019	0.037	0.015	0.019	0.045	0.017	0.020	0.028	0.037	0.021
102	Oakton Street, North Shore Channel	0.041	0.024	0.032	0.021	0.024	0.021	0.025	0.031	0.026	0.036	ND
36	Touhy Avenue, North Shore Channel	0.027	0.016	0.023	0.019	0.014	0.021	0.019	0.016	0.034	0.038	0.029
101	Foster Avenue, North Shore Channel	0.023	0.024	0.024	0.020	0.015	0.021	0.023	0.019	0.027	0.020	ND
37	Wilson Avenue, North Branch Chicago River	0.033	0.028	0.033	0.026	0.022	0.026	0.027	0.030	0.035	0.047	0.042
73	Diversey Parkway, North Branch Chicago River	0.034	0.034	0.043	0.029	0.026	0.026	0.027	0.046	0.036	0.053	0.081
46	Grand Avenue, North Branch Chicago River	0.032	0.036	0.045	0.054	0.031	0.033	0.037	0.038	0.042	0.042	0.044
74	Lake Shore Drive, Chicago River	0.017	0.013	0.017	0.018	0.008	0.012	0.018	0.013	0.017	0.020	0.035
100	Wells Street, Chicago River	0.019	0.018	0.037	0.024	0.013	0.020	0.022	0.020	0.021	0.027	ND
39	Madison Street, South Branch Chicago River	0.036	0.026	0.038	0.030	0.022	0.069	0.028	0.028	0.036	0.037	0.039
108	Loomis Street, South Branch Chicago River	0.036	0.032	0.048	0.042	0.027	0.036	0.028	0.027	0.035	0.050	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.034	0.046	0.049	0.033	0.026	0.038	0.034	0.032	0.048	0.062	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.034	0.030	0.045	0.032	0.029	0.031	0.029	0.035	ND	ND	0.038
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.041	0.070	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.033	0.029	0.037	0.034	0.029	0.029	0.029	0.030	0.040	0.045	0.047
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.039	0.034	0.029	0.031	0.031	0.019	0.019	0.017	0.036	0.030	0.046
42	Route 83, Chicago Sanitary & Ship Canal	0.024	0.022	0.027	0.023	0.020	0.021	0.022	0.029	0.039	0.029	0.028
48	Stephen Street, Chicago Sanitary & Ship Canal	0.065	0.041	0.036	0.032	0.039	0.039	0.042	0.039	0.043	0.050	0.049
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.049
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.042	0.041	0.066	0.039	0.036	0.037	0.047	0.037	0.053	0.045	0.074
Calumet River System												
49	Ewing Avenue, Calumet River	0.023	0.030	0.018	0.023	0.017	0.016	0.053	0.020	0.022	0.030	0.024
50	Burnham Avenue, Wolf Lake	0.058	0.047	0.052	0.081	0.029	0.054	0.040	0.035	0.028	0.043	0.044
55	130th Street, Calumet River	0.026	0.031	0.050	0.028	0.040	0.033	0.030	0.039	0.031	0.046	0.037
86	Burnham Avenue, Grand Calumet River	0.221	0.088	0.169	0.176	0.144	0.093	0.096	0.158	0.098	0.093	0.090
56	Indiana Avenue, Little Calumet River	0.085	0.052	0.059	0.046	0.029	0.037	0.028	0.039	0.086	0.041	0.040
76	Halsted Street, Little Calumet River	0.049	0.037	0.050	0.078	0.041	0.037	0.036	0.041	0.053	0.068	0.058
52	Wentworth Avenue, Little Calumet River	0.147	0.119	0.121	0.131	0.112	0.115	0.138	0.124	0.134	0.145	0.138
54	Joe Orr Road, Thorn Creek	0.073	0.062	0.064	0.066	0.050	0.131	0.073	0.058	0.073	0.070	0.065
97	170th Street, Thorn Creek	0.115	0.092	0.081	0.097	0.080	0.095	0.111	0.080	0.102	0.100	ND
57	Ashland Avenue, Little Calumet River	0.108	0.116	0.085	0.114	0.087	0.123	0.128	0.109	0.104	0.126	0.093
58	Ashland Avenue, Calumet-Sag Channel	0.081	0.053	0.058	0.061	0.048	0.052	0.048	0.055	0.066	0.071	0.069
59	Cicero Avenue, Calumet-Sag Channel	0.064	0.049	0.100	0.056	0.056	0.050	0.071	0.078	0.073	0.078	0.064
43	Route 83, Calumet-Sag Channel	0.065	0.053	0.065	0.057	0.054	0.065	0.059	0.094	0.063	0.076	0.063
Des Plaines River System												
90	Route 19, Poplar Creek	0.105	0.076	0.126	0.080	0.080	0.147	0.097	0.083	0.103	0.107	0.155
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.060	ND	0.151	0.118
89	Walnut Lane, West Branch DuPage River	0.066	0.035	0.059	0.036	0.033	0.044	0.044	0.043	0.074	0.074	0.105
64	Lake Street, West Branch DuPage River	0.101	0.099	0.075	0.073	0.065	0.087	0.071	0.076	0.069	0.092	0.065
79	Higgins Road, Salt Creek	0.112	0.104	0.119	0.110	0.089	0.138	0.124	0.096	0.134	0.124	0.092
80	Arlington Heights Road, Salt Creek	0.061	0.046	0.068	0.059	0.046	0.063	0.057	0.052	0.051	0.051	0.061
18	Devon Avenue, Salt Creek	0.079	0.056	0.071	0.057	0.048	0.053	0.052	0.054	0.052	0.055	0.085
24	Wolf Road, Salt Creek	0.061	0.061	0.065	0.065	0.061	0.059	0.055	0.069	0.066	0.077	0.087
109	Brookfield Avenue, Salt Creek	0.066	0.059	0.069	0.059	0.061	0.065	0.055	0.072	0.042	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.065	0.101	0.061
77	Elmhurst Road, Higgins Creek	0.090	0.092	0.149	0.112	0.107	0.106	0.125	0.115	0.120	0.163	0.133
78	Wille Road, Higgins Creek	0.070	0.032	0.060	0.040	0.030	0.023	0.025	0.033	0.048	0.038	0.064
12	Lake-Cook Road, Buffalo Creek	0.143	0.117	0.145	0.142	0.107	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.084	0.064	0.079	0.067	0.067	0.086	0.084	0.083	0.089	0.090	0.071
17	Oakton Street, Des Plaines River	0.064	0.068	0.084	0.065	0.062	0.080	0.067	0.093	0.089	0.102	0.093
19	Belmont Avenue, Des Plaines River	0.084	0.062	0.075	0.060	0.061	0.079	0.061	0.076	0.079	0.090	0.069
20	Roosevelt Road, Des Plaines River	0.066	0.062	0.082	0.061	0.061	0.073	0.062	0.074	0.145	0.077	0.065
22	Ogden Avenue, Des Plaines River	0.059	0.051	0.074	0.076	0.058	0.068	0.058	0.077	0.066	0.075	0.060
23	Willow Springs Road, Des Plaines River	0.058	0.055	0.068	0.050	0.054	0.064	0.075	0.062	0.062	0.083	0.093
29	Stephen Street, Des Plaines River	0.059	0.058	0.085	0.055	0.051	0.066	0.059	0.066	0.060	0.086	0.081
91	Material Service Road, Des Plaines River	0.060	0.054	0.068	0.058	0.054	0.068	0.065	0.068	0.065	0.097	0.061
110	Springinguth Road, West Branch DuPage River	0.133	0.125	0.207	0.113	0.129	0.209	0.126	ND	ND	ND	ND

ND = No Data.

**TABLE AII-99: TOTAL MERCURY MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.015	0.000	0.000	0.179	0.000	0.028	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.015	0.039	0.080	0.016	0.045	0.013	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.012	0.013	0.121	0.029	0.015	0.007	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.007	0.024	0.034	0.111	0.013	0.034	0.006	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.005	0.022	0.029	0.113	0.019	0.040	0.005	0.024
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.008	0.011	0.062	0.160	0.021	0.030	0.010	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.011	0.010	0.034	0.125	0.012	0.031	0.000	0.022
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.027	0.006	0.064	0.028	0.016	0.023	0.013	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.007	0.016	0.000	0.010	0.038	0.006	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.008	0.009	0.068	0.076	0.000	0.025	0.017	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.011	0.040	0.077	0.018	0.018	0.028	0.017
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.008	0.011	0.046	0.067	0.006	0.026	0.013	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.024	0.041	0.095	0.017	0.024	0.018	0.008
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.011	0.022	0.016	0.010	0.035	0.013	0.059
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.017	0.009	0.018	0.039	0.041	0.046	0.000	0.028
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.015	0.005	0.000	0.122	0.044	0.020	0.000	0.015
100 Wells Street, Chicago River	0.000	0.000	0.000	0.012	0.016	0.030	0.061	0.033	0.013	0.006	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.013	0.016	0.011	0.021	0.058	0.031	0.000	0.029
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.013	0.024	0.017	0.034	0.040	0.018	0.019	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.006	0.029	0.020	0.053	0.018	0.018	0.039	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.004	0.023	0.007	0.021	0.033	ND	ND	0.011
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.018	0.014	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.022	0.029	0.049	0.038	0.011	0.003	0.028
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.007	0.017	0.000	0.022	0.021	0.015	0.016	0.026
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.018	0.016	0.010	0.087	0.023	0.007	0.005	0.015
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.018	0.016	0.093	0.031	0.008	0.000	0.005
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.010	0.015	0.017	0.079	0.045	0.026	0.013	0.009
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.008	0.000	0.110	0.013	0.018	0.004	0.013
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.010	0.015	0.005	0.020	0.038	0.021	0.009	0.010
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.015	0.017	0.051	0.009	0.031	0.014	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.049	0.034	0.148	0.068	0.079	0.055	0.032	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.018	0.019	0.000	0.027	0.034	0.021	0.008
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.021	0.018	0.029	0.007	0.047	0.003	0.005
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.015	0.036	0.017	0.027	0.034	0.024	0.015
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.018	0.033	0.000	0.053	0.044	0.004	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.005	0.015	0.031	0.025	0.034	0.018	0.032	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.012	0.015	0.044	0.052	0.025	0.041	0.020	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.007	0.015	0.010	0.032	0.010	0.009	0.008	0.014
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.018	0.019	0.050	0.007	0.021	0.013	0.016
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.005	0.010	0.023	0.017	0.007	0.028	0.018	0.008
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.019	0.008	0.045	0.051	0.016	0.028	0.027	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.007	0.008	0.007	0.042	0.016	0.024	0.009	0.017
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.015	0.009	0.013	0.044	0.044	0.029	0.009	0.007
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.012	0.000	0.008	0.014	0.032	0.051	0.005	0.018
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.013	0.023	0.025	0.041	0.030	0.009	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.006	0.018	0.044	0.058	0.040	0.008	0.012	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.013	0.013	0.011	0.027	0.066	0.045	0.014	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.005	0.013	0.000	0.075	0.035	0.023	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.009	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.010	0.000	0.000	0.040	0.048	0.030	0.015	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.006	0.013	0.013	0.032	0.038	0.018	0.017	0.008
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.007	0.010	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.006	0.020	0.014	0.035	0.021	0.023	0.016	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.009	0.013	0.017	0.025	0.075	0.028	0.019	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.014	0.000	0.037	0.053	0.041	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.005	0.013	0.013	0.032	0.114	0.038	0.011	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.006	0.018	0.013	0.050	0.054	0.055	0.017	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.007	0.013	0.013	0.016	0.037	0.090	0.033	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.013	0.047	0.011	0.037	0.016	0.044	0.029	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.007	0.012	0.021	0.017	0.015	0.033	0.016	0.002
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.007	0.009	0.031	0.039	ND	ND	ND	ND

ND = No Data.

TABLE AII-100: LOW LEVEL MERCURY MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (ng/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	7.0	6.9	3.7	2.4	5.6	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	9.7	11.0	6.9	3.6	9.5	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.9	3.2	2.9	2.0	3.6	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	3.0	3.8	3.9	1.8	6.8	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.2	6.5	6.3	2.8	6.2	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	2.4	3.7	3.6	1.4	3.1	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	3.3	5.3	5.5	2.9	5.8	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	4.3	6.3	8.0	3.4	5.7	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	1.8	2.3	2.3	0.7	1.6	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	7.2	4.9	5.4	2.7	4.7	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	12.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	1.0	1.7	1.9	1.4	1.3	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	2.2	2.9	2.7	1.6	2.1	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	6.1	0.0	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.6	2.1	1.4	0.7	3.1	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.9	1.9	1.6	0.2	1.8	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	2.2	2.1	1.7	1.6	4.2	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	6.4	8.3	2.7	3.0	6.1	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thom Creek	3.1	4.9	1.6	2.8	2.5	ND	ND	ND	ND	ND	ND
97 170th Street, Thom Creek	15.1	8.3	5.4	5.7	10.5	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	9.2	8.1	3.6	4.2	7.6	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	ND	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	1.5	2.0	1.5	2.6	2.9	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	5.1	3.4	3.7	1.6	4.4	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	3.0	3.3	2.6	2.3	4.0	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	3.3	3.4	2.5	1.5	4.1	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	2.5	2.5	1.6	0.5	2.3	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	2.1	2.7	1.4	0.9	2.2	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	4.8	4.9	3.1	2.7	6.2	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	3.9	7.3	3.9	2.5	8.6	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	5.2	5.8	4.6	2.2	7.8	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.8	2.3	1.7	0.7	2.0	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	2.3	4.0	2.1	2.1	3.3	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.9	2.8	1.5	1.4	3.1	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	2.4	3.5	2.2	1.7	3.6	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	2.8	3.4	2.7	1.8	3.9	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	3.7	4.4	2.9	2.0	4.2	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	3.7	5.5	3.3	2.5	6.9	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	3.6	5.2	3.4	2.4	5.3	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	4.2	5.1	3.3	2.1	6.4	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	3.9	4.9	3.0	2.6	6.2	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1.4	3.3	9.8	1.4	4.2	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-101: TOTAL ZINC MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.070	0.079
106 Dundee Road, West Fork North Branch Chicago River	0.013	0.027	0.040	0.030	0.045	0.039	0.052	0.045	0.031	0.091	ND
103 Golf Road, West Fork North Branch Chicago River	0.006	0.012	0.014	0.022	0.026	0.028	0.032	0.028	0.046	0.047	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.005	0.017	0.019	0.029	0.019	0.021	0.022	0.022	0.056	0.020
104 Glenview Road, North Branch Chicago River	0.021	0.053	0.028	0.039	0.049	0.038	0.033	0.038	0.035	0.039	ND
32 Lake-Cook Road, Skokie River	0.007	0.009	0.021	0.021	0.036	0.027	0.021	0.024	0.029	0.049	0.024
105 Frontage Road, Skokie River	0.015	0.023	0.021	0.026	0.029	0.035	0.042	0.047	0.043	0.038	ND
34 Dempster Street, North Branch Chicago River	0.012	0.015	0.028	0.021	0.025	0.031	0.034	0.046	0.042	0.040	0.036
96 Albany Avenue, North Branch Chicago River	0.007	0.018	0.020	0.023	0.024	0.030	0.032	0.036	0.038	0.041	0.038
35 Central Street, North Shore Channel	0.002	0.009	0.004	0.010	0.011	0.019	0.020	0.025	0.028	0.023	0.015
102 Oakton Street, North Shore Channel	0.012	0.013	0.018	0.030	0.027	0.030	0.026	0.042	0.037	0.030	ND
36 Touhy Avenue, North Shore Channel	0.020	0.027	0.034	0.038	0.035	0.042	0.040	0.045	0.058	0.055	0.047
101 Foster Avenue, North Shore Channel	0.019	0.026	0.033	0.039	0.035	0.039	0.047	0.046	0.044	0.047	ND
37 Wilson Avenue, North Branch Chicago River	0.018	0.025	0.028	0.036	0.032	0.039	0.042	0.043	0.042	0.055	0.046
73 Diversey Parkway, North Branch Chicago River	0.020	0.025	0.030	0.036	0.032	0.037	0.036	0.058	0.045	0.056	0.062
46 Grand Avenue, North Branch Chicago River	0.019	0.029	0.033	0.040	0.041	0.049	0.051	0.064	0.049	0.049	0.049
74 Lake Shore Drive, Chicago River	0.001	0.007	0.010	0.030	0.018	0.029	0.023	0.024	0.023	0.039	0.031
100 Wells Street, Chicago River	0.013	0.012	0.018	0.026	0.021	0.030	0.028	0.030	0.028	0.044	ND
39 Madison Street, South Branch Chicago River	0.013	0.028	0.031	0.046	0.029	0.043	0.046	0.042	0.077	0.061	0.043
108 Loomis Street, South Branch Chicago River	0.011	0.030	0.037	0.043	0.033	0.038	0.042	0.041	0.040	0.045	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.010	0.023	0.033	0.032	0.028	0.039	0.040	0.038	0.044	0.055	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.015	0.030	0.036	0.043	0.042	0.045	0.047	0.065	ND	ND	0.039
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.045	0.078	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.014	0.026	0.034	0.046	0.035	0.040	0.042	0.041	0.046	0.057	0.046
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.020	0.029	0.035	0.046	0.035	0.041	0.037	0.038	0.038	0.046	0.047
42 Route 83, Chicago Sanitary & Ship Canal	0.015	0.028	0.031	0.045	0.032	0.038	0.045	0.047	0.045	0.048	0.036
48 Stephen Street, Chicago Sanitary & Ship Canal	0.015	0.028	0.033	0.045	0.033	0.044	0.056	0.047	0.046	0.052	0.046
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.075
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.016	0.029	0.035	0.038	0.038	0.049	0.047	0.049	0.050	0.049	0.053
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.008	0.016	0.021	0.016	0.014	0.019	0.018	0.021	0.030	0.022
50 Burnham Avenue, Wolf Lake	0.003	0.009	0.007	0.047	0.008	0.015	0.016	0.019	0.013	0.026	0.015
55 130th Street, Calumet River	0.004	0.005	0.008	0.019	0.053	0.022	0.026	0.022	0.025	0.044	0.022
86 Burnham Avenue, Grand Calumet River	0.021	0.049	0.039	0.053	0.055	0.154	0.062	0.081	0.087	0.075	0.078
56 Indiana Avenue, Little Calumet River	0.007	0.015	0.025	0.033	0.021	0.030	0.032	0.034	0.051	0.034	0.040
76 Halsted Street, Little Calumet River	0.016	0.032	0.059	0.053	0.041	0.051	0.052	0.050	0.065	0.066	0.047
52 Wentworth Avenue, Little Calumet River	0.014	0.027	0.022	0.026	0.027	0.035	0.047	0.036	0.064	0.046	0.045
54 Joe Orr Road, Thorn Creek	0.027	0.042	0.046	0.050	0.050	0.103	0.059	0.040	0.054	0.065	0.060
97 170th Street, Thorn Creek	0.025	0.029	0.031	0.038	0.031	0.046	0.060	0.048	0.054	0.050	ND
57 Ashland Avenue, Little Calumet River	0.018	0.033	0.027	0.035	0.027	0.059	0.052	0.050	0.041	0.052	0.060
58 Ashland Avenue, Calumet-Sag Channel	0.015	0.033	0.059	0.048	0.040	0.069	0.060	0.055	0.055	0.066	0.054
59 Cicero Avenue, Calumet-Sag Channel	0.012	0.024	0.038	0.032	0.037	0.044	0.055	0.049	0.053	0.050	0.044
43 Route 83, Calumet-Sag Channel	0.010	0.026	0.030	0.035	0.034	0.055	0.046	0.055	0.051	0.064	0.062
Des Plaines River System											
90 Route 19, Poplar Creek	0.002	0.003	0.014	0.013	0.014	0.035	0.017	0.033	0.027	0.024	0.012
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.032	ND	0.041	0.022
89 Walnut Lane, West Branch DuPage River	0.030	0.038	0.045	0.042	0.039	0.051	0.062	0.053	0.069	0.061	0.047
64 Lake Street, West Branch DuPage River	0.032	0.035	0.038	0.034	0.044	0.051	0.048	0.051	0.045	0.066	0.037
79 Higgins Road, Salt Creek	0.004	0.008	0.010	0.020	0.015	0.028	0.022	0.029	0.023	0.027	0.018
80 Arlington Heights Road, Salt Creek	0.011	0.023	0.019	0.036	0.025	0.039	0.078	0.036	0.031	0.039	0.034
18 Devon Avenue, Salt Creek	0.011	0.023	0.020	0.024	0.024	0.042	0.034	0.036	0.035	0.035	0.034
24 Wolf Road, Salt Creek	0.016	0.030	0.035	0.034	0.040	0.049	0.050	0.051	0.061	0.054	0.143
109 Brookfield Avenue, Salt Creek	0.016	0.028	0.032	0.032	0.040	0.050	0.040	0.049	0.045	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.049	0.059	0.038
77 Elmhurst Road, Higgins Creek	0.020	0.021	0.051	0.035	0.042	0.041	0.053	0.050	0.040	0.041	0.032
78 Wille Road, Higgins Creek	0.026	0.036	0.050	0.047	0.049	0.076	0.066	0.066	0.075	0.062	0.067
12 Lake-Cook Road, Buffalo Creek	0.014	0.017	0.016	0.019	0.017	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.007	0.019	0.032	0.025	0.024	0.036	0.034	0.043	0.039	0.036	0.030
17 Oakton Street, Des Plaines River	0.003	0.016	0.019	0.023	0.024	0.037	0.032	0.048	0.038	0.037	0.033
19 Belmont Avenue, Des Plaines River	0.012	0.020	0.028	0.029	0.033	0.054	0.040	0.060	0.044	0.041	0.030
20 Roosevelt Road, Des Plaines River	0.015	0.023	0.033	0.031	0.034	0.046	0.037	0.059	0.047	0.038	0.029
22 Ogden Avenue, Des Plaines River	0.017	0.021	0.036	0.037	0.037	0.046	0.036	0.055	0.043	0.050	0.047
23 Willow Springs Road, Des Plaines River	0.010	0.020	0.028	0.028	0.034	0.043	0.037	0.045	0.037	0.048	0.056
29 Stephen Street, Des Plaines River	0.015	0.021	0.027	0.033	0.033	0.042	0.035	0.048	0.041	0.047	0.043
91 Material Service Road, Des Plaines River	0.014	0.020	0.027	0.027	0.033	0.040	0.039	0.052	0.037	0.049	0.046
110 Springinsguth Road, West Branch DuPage River	0.000	0.018	0.029	0.036	0.023	0.035	0.031	ND	ND	ND	ND

ND = No Data.

TABLE AII-102: TOTAL SELENIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.011	0.000	0.000	0.003	0.007	0.010	0.003	0.010	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.006	0.015	0.003	0.007	0.006	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.001	0.005	0.014	0.005	0.005	0.005	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.004	0.011	0.002	0.003	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.005	0.012	0.005	0.009	0.002	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.006	0.012	0.006	0.002	0.002	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.006	0.012	0.008	0.010	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.004	0.009	0.006	0.006	0.004	0.000
35 Central Street, North Shore Channel	0.000	0.013	0.000	0.000	0.000	0.007	0.008	0.003	0.008	0.007	0.000
102 Oakton Street, North Shore Channel	0.000	0.012	0.000	0.000	0.002	0.004	0.011	0.004	0.002	0.000	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.008	0.010	0.008	0.008	0.002	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.006	0.010	0.006	0.013	0.004	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.007	0.011	0.006	0.017	0.007	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.005	0.010	0.006	0.012	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.009	0.010	0.007	0.006	0.006	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.006	0.009	0.005	0.009	0.003	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.005	0.008	0.004	0.010	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.007	0.009	0.004	0.010	0.003	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.008	0.007	0.004	0.010	0.003	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.006	0.009	0.005	0.010	0.002	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.008	0.008	0.005	ND	ND	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.010	0.008	0.004	0.010	0.007	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.008	0.010	0.004	0.006	0.004	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.007	0.008	0.004	0.008	0.005	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.007	0.008	0.005	0.009	0.007	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.004	0.000	0.000	0.000	0.007	0.011	0.005	0.007	0.009	0.001
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.014	0.000	0.000	0.000	0.004	0.008	0.005	0.005	0.003	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.004	0.007	0.003	0.004	0.003	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.005	0.011	0.003	0.008	0.004	0.000
86 Burnham Avenue, Grand Calumet River	0.001	0.000	0.000	0.000	0.000	0.005	0.015	0.004	0.009	0.006	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.005	0.008	0.003	0.009	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.010	0.000	0.000	0.000	0.006	0.011	0.007	0.006	0.008	0.017
52 Wentworth Avenue, Little Calumet River	0.000	0.013	0.000	0.000	0.000	0.004	0.012	0.003	0.012	0.008	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.013	0.000	0.000	0.000	0.005	0.006	0.009	0.009	0.003	0.000
97 170th Street, Thorn Creek	0.000	0.011	0.000	0.000	0.000	0.005	0.008	0.005	0.008	0.004	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.007	0.012	0.004	0.007	0.007	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.013	0.000	0.000	0.000	0.005	0.010	0.006	0.012	0.003	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.013	0.000	0.000	0.000	0.005	0.013	0.003	0.005	0.008	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.013	0.000	0.000	0.000	0.005	0.010	0.004	0.011	0.002	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.008	0.013	0.016	0.010	0.004	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.005	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.008	0.012	0.005	0.010	0.007	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.008	0.013	0.005	0.007	0.005	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.002	0.007	0.013	0.001	0.003	0.011	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.009	0.010	0.003	0.016	0.010	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.008	0.011	0.005	0.005	0.008	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.009	0.012	0.003	0.003	0.012	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.007	0.011	0.003	0.004	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.020	0.007	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.010	0.014	0.005	0.008	0.008	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.001	0.008	0.011	0.006	0.010	0.007	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.007	0.014	0.006	0.007	0.009	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.006	0.011	0.004	0.010	0.003	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.007	0.010	0.004	0.008	0.008	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.007	0.013	0.002	0.006	0.007	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.009	0.000	0.000	0.000	0.010	0.011	0.007	0.017	0.008	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.008	0.010	0.004	0.006	0.005	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.008	0.011	0.003	0.003	0.006	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.002	0.010	0.013	0.005	0.003	0.005	0.005
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.009	0.014	ND	ND	ND	ND

ND = No Data.

TABLE AII-103: SOLUBLE CALCIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	75.3	65.8	68.8	70.9	57.9	65.7	81.4	53.7	73.3	70.3	ND
103 Golf Road, West Fork North Branch Chicago River	72.4	65.2	65.8	72.2	70.4	74.0	69.0	66.0	66.2	66.1	ND
31 Lake-Cook Road, Middle Fork North Branch	63.8	55.7	59.0	63.4	58.4	59.4	62.4	62.0	65.9	65.6	ND
104 Glenview Road, North Branch Chicago River	65.0	59.7	63.2	61.4	58.1	55.5	62.9	65.7	63.7	63.0	ND
32 Lake-Cook Road, Skokie River	72.2	61.4	62.6	72.8	63.1	64.0	70.5	66.4	69.8	73.8	ND
105 Frontage Road, Skokie River	63.7	60.5	63.6	60.2	59.9	55.7	61.7	56.8	62.0	61.8	ND
34 Dempster Street, North Branch Chicago River	71.7	59.5	61.7	62.6	62.8	61.6	65.7	61.4	63.1	61.1	ND
96 Albany Avenue, North Branch Chicago River	65.8	62.6	65.2	64.7	64.7	63.7	64.1	62.4	64.7	63.3	ND
35 Central Street, North Shore Channel	38.1	35.3	38.1	38.6	35.3	32.8	36.4	39.0	39.5	34.7	ND
102 Oakton Street, North Shore Channel	48.4	46.1	45.8	47.0	45.2	42.7	44.4	46.2	47.4	39.7	ND
36 Touhy Avenue, North Shore Channel	51.7	58.3	57.9	53.7	49.8	46.8	54.6	51.1	54.8	52.7	ND
101 Foster Avenue, North Shore Channel	55.2	56.0	59.0	56.6	51.5	47.4	54.7	52.2	54.4	53.5	ND
37 Wilson Avenue, North Branch Chicago River	60.0	56.4	60.1	56.8	53.4	49.6	57.6	53.8	55.8	55.6	ND
73 Diversey Parkway, North Branch Chicago River	57.9	56.7	60.8	56.4	53.7	49.1	58.1	52.7	55.1	56.4	ND
46 Grand Avenue, North Branch Chicago River	55.5	54.8	58.8	56.4	54.0	52.7	57.5	54.4	55.1	56.5	ND
74 Lake Shore Drive, Chicago River	37.3	36.0	37.5	40.6	36.7	37.9	40.1	39.1	40.2	41.4	ND
100 Wells Street, Chicago River	43.0	42.6	47.0	44.5	42.3	41.8	43.5	46.2	43.9	46.4	ND
39 Madison Street, South Branch Chicago River	49.7	51.7	52.8	49.1	49.0	49.0	50.2	53.0	53.3	48.9	ND
108 Loomis Street, South Branch Chicago River	51.2	52.3	53.1	49.8	50.7	51.2	50.4	51.5	52.9	48.6	ND
99 Archer Avenue, South Fork South Branch Chicago River	54.6	50.6	56.2	49.4	49.3	48.5	50.7	49.8	50.9	48.6	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	51.9	52.8	52.7	50.4	49.6	49.8	50.5	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	53.0	47.9	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	52.8	50.9	57.0	50.9	48.2	51.1	51.6	49.9	52.5	48.9	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	58.1	56.2	57.7	53.0	47.5	51.4	53.5	52.0	52.4	50.7	ND
42 Route 83, Chicago Sanitary & Ship Canal	57.4	54.4	57.3	54.1	52.8	53.6	54.7	55.2	54.1	51.6	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	58.5	54.4	58.8	55.7	55.9	56.1	59.0	57.7	55.8	56.7	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	59.0	56.3	59.2	56.9	55.0	54.9	56.8	55.7	56.4	57.0	ND
Calumet River System											
49 Ewing Avenue, Calumet River	34.4	34.2	34.3	35.1	32.2	34.4	35.1	35.8	36.4	35.4	ND
50 Burnham Avenue, Wolf Lake	36.0	34.8	35.0	34.7	28.7	34.8	35.1	31.8	30.4	28.4	ND
55 130th Street, Calumet River	41.5	41.2	41.5	45.6	38.4	40.9	40.5	41.1	42.4	43.0	ND
86 Burnham Avenue, Grand Calumet River	78.8	80.8	91.4	86.4	92.8	64.3	77.0	83.9	75.5	69.2	ND
56 Indiana Avenue, Little Calumet River	47.5	47.4	49.4	51.5	45.1	44.7	45.7	47.4	51.7	48.5	ND
76 Halsted Street, Little Calumet River	61.6	61.1	65.8	63.3	58.2	60.7	60.4	59.3	60.1	63.1	ND
52 Wentworth Avenue, Little Calumet River	65.1	71.7	88.8	74.3	80.9	70.9	82.2	90.7	87.2	70.1	ND
54 Joe Orr Road, Thorn Creek	77.0	74.1	84.4	74.9	79.6	66.9	77.3	60.7	79.1	74.1	ND
97 170th Street, Thorn Creek	68.6	75.3	85.3	68.0	80.8	78.0	81.3	77.4	85.8	74.7	ND
57 Ashland Avenue, Little Calumet River	68.2	69.2	80.5	66.1	77.8	68.9	74.3	82.1	80.2	67.7	ND
58 Ashland Avenue, Calumet-Sag Channel	59.7	59.3	65.7	59.6	61.7	63.2	61.9	62.8	63.4	62.9	ND
59 Cicero Avenue, Calumet-Sag Channel	62.5	60.8	66.3	58.3	65.2	61.6	62.8	61.7	62.3	62.6	ND
43 Route 83, Calumet-Sag Channel	64.9	59.3	65.4	59.4	63.0	60.7	59.9	61.1	60.8	64.0	ND
Des Plaines River System											
90 Route 19, Poplar Creek	69.9	65.5	70.4	66.6	67.0	60.5	70.9	60.5	72.1	66.9	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	53.2	ND	84.6	ND
89 Walnut Lane, West Branch DuPage River	62.0	64.9	60.4	60.5	63.2	54.8	58.7	53.0	58.2	58.8	ND
64 Lake Street, West Branch DuPage River	75.0	64.0	64.7	56.5	61.2	56.7	63.0	52.7	60.3	62.1	ND
79 Higgins Road, Salt Creek	47.1	60.4	68.4	61.9	60.6	60.1	69.8	53.0	59.0	72.1	ND
80 Arlington Heights Road, Salt Creek	63.4	59.0	68.9	61.6	61.9	62.7	61.9	56.7	63.8	60.0	ND
18 Devon Avenue, Salt Creek	67.5	58.2	67.4	61.5	62.0	61.9	61.9	57.2	63.5	61.8	ND
24 Wolf Road, Salt Creek	70.4	66.4	69.0	61.9	60.7	59.7	66.4	56.9	69.6	66.2	ND
109 Brookfield Avenue, Salt Creek	66.1	63.6	65.3	60.7	59.6	58.2	66.2	55.1	55.4	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	84.9	66.1	ND
77 Elmhurst Road, Higgins Creek	46.1	50.2	58.8	40.9	52.5	52.2	70.0	46.3	57.1	64.0	ND
78 Wille Road, Higgins Creek	71.9	76.9	75.0	68.0	66.7	64.0	67.1	61.2	70.5	76.1	ND
12 Lake-Cook Road, Buffalo Creek	72.7	66.9	76.2	68.6	70.9	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	64.8	59.7	70.8	64.4	69.4	63.4	66.9	62.0	70.2	68.8	ND
17 Oakton Street, Des Plaines River	62.9	58.9	68.2	62.6	67.1	62.6	68.1	59.4	68.7	69.1	ND
19 Belmont Avenue, Des Plaines River	62.1	61.1	69.4	61.6	66.5	62.5	67.8	59.3	68.5	67.8	ND
20 Roosevelt Road, Des Plaines River	61.6	59.2	69.5	60.4	65.2	60.7	67.6	54.0	69.8	68.1	ND
22 Ogden Avenue, Des Plaines River	63.3	59.3	65.7	59.5	62.8	58.0	65.6	64.9	69.2	66.2	ND
23 Willow Springs Road, Des Plaines River	61.9	59.5	67.3	59.4	62.1	59.2	66.9	56.2	66.9	66.6	ND
29 Stephen Street, Des Plaines River	64.2	59.1	68.5	63.2	66.1	62.3	67.1	60.3	70.4	67.3	ND
91 Material Service Road, Des Plaines River	66.7	60.5	67.9	62.4	67.2	61.8	67.1	62.2	70.4	64.6	ND
110 Springinsguth Road, West Branch DuPage River	68.9	73.7	79.6	77.6	83.4	72.6	79.9	ND	ND	ND	ND

ND = No Data.

TABLE AII-104: SOLUBLE MAGNESIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	30.8	27.8	29.2	28.1	23.9	27.3	33.3	21.6	31.8	34.0	ND
103 Golf Road, West Fork North Branch Chicago River	29.2	26.3	26.0	29.2	28.7	29.9	26.5	26.0	27.8	30.8	ND
31 Lake-Cook Road, Middle Fork North Branch	28.2	24.3	25.0	28.9	27.0	30.8	28.1	27.6	30.6	30.8	ND
104 Glenview Road, North Branch Chicago River	28.5	25.6	26.7	26.8	25.5	25.4	26.5	28.0	27.8	29.4	ND
32 Lake-Cook Road, Skokie River	31.5	25.5	26.0	30.9	28.3	30.2	30.0	27.9	31.0	31.5	ND
105 Frontage Road, Skokie River	27.9	26.0	26.8	26.0	26.0	25.0	26.1	23.9	27.2	28.8	ND
34 Dempster Street, North Branch Chicago River	29.9	24.8	25.5	27.0	26.8	27.2	26.9	24.8	27.0	27.2	ND
96 Albany Avenue, North Branch Chicago River	27.4	26.1	26.4	27.8	27.3	27.7	26.4	25.7	27.3	28.8	ND
35 Central Street, North Shore Channel	13.1	12.3	13.0	13.3	11.9	11.3	12.1	13.4	13.8	11.3	ND
102 Oakton Street, North Shore Channel	17.2	16.3	15.8	16.5	15.9	15.2	15.0	15.6	16.4	14.6	ND
36 Touhy Avenue, North Shore Channel	18.5	20.8	21.0	19.2	18.0	16.8	19.1	18.2	19.9	19.8	ND
101 Foster Avenue, North Shore Channel	19.8	19.8	21.4	20.1	18.7	16.9	19.4	18.5	19.7	20.1	ND
37 Wilson Avenue, North Branch Chicago River	22.7	20.7	22.4	20.9	20.1	18.2	20.9	19.4	20.9	21.7	ND
73 Diversey Parkway, North Branch Chicago River	21.3	20.6	22.6	20.9	20.0	17.8	21.0	18.8	20.4	22.0	ND
46 Grand Avenue, North Branch Chicago River	20.4	19.9	21.5	20.8	20.1	19.5	20.5	19.4	20.3	21.9	ND
74 Lake Shore Drive, Chicago River	12.9	12.3	12.8	14.3	12.6	13.4	14.1	13.1	13.7	14.3	ND
100 Wells Street, Chicago River	15.2	15.0	16.7	15.7	15.0	14.7	15.3	16.0	15.5	17.1	ND
39 Madison Street, South Branch Chicago River	18.0	18.9	19.1	17.8	18.2	17.8	17.9	19.1	19.8	18.4	ND
108 Loomis Street, South Branch Chicago River	18.6	19.0	19.0	18.0	18.8	18.9	18.0	18.1	19.7	17.9	ND
99 Archer Avenue, South Fork South Branch Chicago River	19.7	17.8	20.2	17.6	18.1	17.4	18.0	17.5	18.5	17.9	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	18.8	19.1	19.2	18.1	18.4	18.3	18.0	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	19.8	18.1	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.3	18.4	20.8	18.4	17.6	18.8	18.5	17.3	19.6	18.3	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	21.0	20.2	21.2	19.0	17.6	18.9	19.1	18.1	19.3	19.2	ND
42 Route 83, Chicago Sanitary & Ship Canal	20.3	19.6	20.7	19.7	19.5	19.8	19.7	19.5	20.0	19.8	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	20.9	19.5	21.2	20.6	20.7	21.0	21.4	20.4	20.8	21.7	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	21.2	20.4	21.2	21.0	20.3	20.4	20.6	20.1	20.9	22.3	ND
Calumet River System											
49 Ewing Avenue, Calumet River	11.7	11.3	11.4	11.7	10.5	11.5	11.6	11.9	11.8	11.4	ND
50 Burnham Avenue, Wolf Lake	12.6	11.5	12.0	11.7	11.3	13.1	13.0	12.2	12.6	11.2	ND
55 130th Street, Calumet River	14.5	14.0	14.0	15.7	13.0	14.2	13.9	13.7	14.5	15.0	ND
86 Burnham Avenue, Grand Calumet River	27.1	37.1	36.8	38.6	47.6	43.0	50.1	62.4	64.5	49.4	ND
56 Indiana Avenue, Little Calumet River	16.6	16.5	17.2	19.1	16.3	16.7	17.2	17.4	21.2	19.1	ND
76 Halsted Street, Little Calumet River	21.3	21.2	23.0	22.3	20.7	21.7	21.1	20.1	21.5	23.4	ND
52 Wentworth Avenue, Little Calumet River	26.3	27.4	34.6	29.7	32.0	28.6	32.1	35.3	35.5	29.5	ND
54 Joe Orr Road, Thorn Creek	28.3	28.0	31.7	29.6	34.8	30.2	32.5	24.8	35.9	35.2	ND
97 170th Street, Thorn Creek	28.2	29.9	34.4	27.3	35.7	35.0	35.2	33.5	42.6	36.5	ND
57 Ashland Avenue, Little Calumet River	26.5	26.9	31.4	25.9	32.8	29.1	30.1	33.3	34.7	30.7	ND
58 Ashland Avenue, Calumet-Sag Channel	21.6	21.4	23.4	21.5	22.4	23.2	22.3	22.8	24.2	23.9	ND
59 Cicero Avenue, Calumet-Sag Channel	22.7	22.0	23.8	20.9	24.1	22.7	23.1	22.2	23.3	24.0	ND
43 Route 83, Calumet-Sag Channel	23.8	21.9	23.8	21.9	23.6	22.7	22.1	22.2	23.3	24.9	ND
Des Plaines River System											
90 Route 19, Poplar Creek	31.9	28.6	31.6	30.1	29.5	28.2	32.3	26.4	32.5	32.3	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	19.4	ND	34.8	ND
89 Walnut Lane, West Branch DuPage River	23.7	25.1	23.1	23.0	23.9	20.9	21.8	18.9	22.2	23.7	ND
64 Lake Street, West Branch DuPage River	28.0	24.4	24.3	21.8	22.9	21.8	23.3	18.9	23.0	24.5	ND
79 Higgins Road, Salt Creek	19.5	25.7	28.4	26.0	25.4	27.6	29.4	21.2	27.4	34.0	ND
80 Arlington Heights Road, Salt Creek	24.4	22.5	26.4	24.3	24.3	25.0	23.6	21.8	25.5	24.5	ND
18 Devon Avenue, Salt Creek	25.8	22.6	25.8	24.3	24.4	24.6	23.6	21.4	25.1	25.3	ND
24 Wolf Road, Salt Creek	27.2	26.3	27.4	25.3	24.6	25.3	26.9	21.9	28.6	29.1	ND
109 Brookfield Avenue, Salt Creek	26.0	25.2	26.2	24.8	24.1	24.6	26.8	21.4	22.9	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	33.6	28.7	ND
77 Elmhurst Road, Higgins Creek	15.7	18.1	19.1	13.9	17.7	17.8	25.4	14.3	20.1	26.3	ND
78 Wille Road, Higgins Creek	26.7	29.0	28.0	25.3	24.9	24.3	24.7	21.7	26.1	30.4	ND
12 Lake-Cook Road, Buffalo Creek	31.6	28.7	33.3	30.2	31.8	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	29.0	26.7	31.4	29.4	31.7	28.9	30.1	27.1	32.3	32.5	ND
17 Oakton Street, Des Plaines River	27.3	25.9	29.7	28.5	30.3	28.6	30.7	25.6	31.4	33.0	ND
19 Belmont Avenue, Des Plaines River	26.1	26.4	29.5	27.3	29.0	27.7	30.0	23.8	30.2	31.4	ND
20 Roosevelt Road, Des Plaines River	25.8	25.6	29.7	27.0	28.4	27.2	30.0	22.3	30.9	31.8	ND
22 Ogden Avenue, Des Plaines River	26.3	25.1	27.6	25.8	26.7	25.6	28.5	25.3	29.9	30.2	ND
23 Willow Springs Road, Des Plaines River	25.7	25.5	28.5	26.1	26.8	26.4	29.3	22.9	29.5	30.7	ND
29 Stephen Street, Des Plaines River	26.7	25.1	28.8	27.8	28.4	27.6	29.2	24.6	30.2	30.5	ND
91 Material Service Road, Des Plaines River	28.0	25.6	28.7	27.5	29.1	27.7	29.3	25.5	30.8	29.3	ND
110 Springinsguth Road, West Branch DuPage River	25.2	27.2	29.3	28.5	29.9	26.7	29.4	ND	ND	ND	ND

ND = No Data.

**TABLE AII-105: SOLUBLE SILVER MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
73 Diversy Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.000	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND

ND = No Data.

**TABLE AII-106: SOLUBLE ARSENIC MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)		Annual Means (mg/L)										
		10	09	08	07	06	05	04	03	02	01	00
Chicago River System												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.004	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.004	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.002	0.002	ND
104	Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
32	Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	ND
105	Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND
34	Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
96	Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	ND
35	Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND
102	Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	ND
36	Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND
101	Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND
74	Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.006	ND
100	Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	ND
39	Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	ND
108	Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.000	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND
Calumet River System												
49	Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	ND
50	Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	ND
55	130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND
56	Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND
76	Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.002	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
54	Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND
97	170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.002	ND
57	Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	ND
58	Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND
59	Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.001	ND
43	Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND
Des Plaines River System												
90	Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	ND
89	Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
64	Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
79	Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND
80	Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	ND
18	Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	ND
24	Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
109	Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.005	ND
77	Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	ND
78	Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.006	ND
17	Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND
19	Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	ND
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	ND
22	Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND
23	Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND
29	Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
91	Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	ND
110	Springingsuth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND

ND = No Data.

**TABLE AII-107: SOLUBLE BARIUM MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.060	0.051	0.052	0.054	0.042	0.043	0.054	0.034	0.044	0.053	ND
103 Golf Road, West Fork North Branch Chicago River	0.046	0.042	0.043	0.046	0.044	0.046	0.042	0.043	0.040	0.040	ND
31 Lake-Cook Road, Middle Fork North Branch	0.037	0.032	0.035	0.037	0.035	0.034	0.034	0.037	0.036	0.040	ND
104 Glenview Road, North Branch Chicago River	0.029	0.028	0.032	0.030	0.028	0.026	0.028	0.033	0.027	0.030	ND
32 Lake-Cook Road, Skokie River	0.041	0.034	0.036	0.042	0.035	0.035	0.040	0.039	0.039	0.040	ND
105 Frontage Road, Skokie River	0.027	0.026	0.030	0.027	0.026	0.025	0.025	0.024	0.025	0.029	ND
34 Dempster Street, North Branch Chicago River	0.037	0.030	0.034	0.033	0.033	0.032	0.033	0.032	0.030	0.033	ND
96 Albany Avenue, North Branch Chicago River	0.035	0.033	0.037	0.035	0.034	0.033	0.032	0.032	0.032	0.033	ND
35 Central Street, North Shore Channel	0.022	0.019	0.022	0.022	0.020	0.019	0.020	0.021	0.022	0.021	ND
102 Oakton Street, North Shore Channel	0.022	0.021	0.022	0.022	0.020	0.021	0.020	0.021	0.019	0.021	ND
36 Touhy Avenue, North Shore Channel	0.020	0.024	0.024	0.022	0.019	0.018	0.019	0.017	0.019	0.019	ND
101 Foster Avenue, North Shore Channel	0.022	0.023	0.025	0.023	0.020	0.018	0.019	0.018	0.018	0.018	ND
37 Wilson Avenue, North Branch Chicago River	0.026	0.025	0.027	0.024	0.022	0.020	0.021	0.020	0.021	0.021	ND
73 Diversey Parkway, North Branch Chicago River	0.024	0.024	0.027	0.023	0.021	0.019	0.021	0.019	0.020	0.022	ND
46 Grand Avenue, North Branch Chicago River	0.022	0.023	0.026	0.023	0.021	0.020	0.020	0.019	0.019	0.021	ND
74 Lake Shore Drive, Chicago River	0.022	0.021	0.022	0.022	0.021	0.021	0.020	0.021	0.021	0.021	ND
100 Wells Street, Chicago River	0.022	0.023	0.024	0.022	0.021	0.020	0.020	0.020	0.021	0.022	ND
39 Madison Street, South Branch Chicago River	0.022	0.023	0.024	0.022	0.021	0.020	0.019	0.017	0.020	0.021	ND
108 Loomis Street, South Branch Chicago River	0.023	0.023	0.024	0.022	0.022	0.021	0.019	0.019	0.020	0.021	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.023	0.026	0.022	0.021	0.020	0.018	0.017	0.020	0.023	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.022	0.024	0.024	0.022	0.021	0.020	0.019	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.020	0.020	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.021	0.022	0.025	0.022	0.020	0.020	0.019	0.017	0.020	0.020	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.020	0.020	0.022	0.019	0.016	0.016	0.016	0.015	0.017	0.017	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.018	0.019	0.020	0.017	0.017	0.016	0.016	0.015	0.016	0.017	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.019	0.019	0.021	0.018	0.018	0.017	0.017	0.017	0.017	0.019	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.020	0.020	0.021	0.019	0.018	0.017	0.018	0.017	0.018	0.019	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.021	0.020	0.021	0.020	0.019	0.020	0.020	0.019	0.021	0.022	ND
50 Burnham Avenue, Wolf Lake	0.034	0.032	0.033	0.034	0.025	0.030	0.029	0.025	0.024	0.025	ND
55 130th Street, Calumet River	0.027	0.028	0.029	0.030	0.026	0.027	0.027	0.024	0.029	0.031	ND
86 Burnham Avenue, Grand Calumet River	0.025	0.023	0.025	0.022	0.019	0.016	0.016	0.018	0.017	0.017	ND
56 Indiana Avenue, Little Calumet River	0.026	0.029	0.030	0.029	0.026	0.025	0.026	0.023	0.028	0.028	ND
76 Halsted Street, Little Calumet River	0.018	0.021	0.021	0.021	0.017	0.018	0.018	0.016	0.018	0.022	ND
52 Wentworth Avenue, Little Calumet River	0.030	0.030	0.034	0.029	0.033	0.028	0.033	0.034	0.032	0.031	ND
54 Joe Orr Road, Thom Creek	0.031	0.026	0.030	0.025	0.029	0.026	0.030	0.024	0.026	0.024	ND
97 170th Street, Thom Creek	0.029	0.031	0.034	0.028	0.033	0.032	0.034	0.027	0.029	0.028	ND
57 Ashland Avenue, Little Calumet River	0.031	0.030	0.034	0.029	0.033	0.029	0.032	0.032	0.030	0.028	ND
58 Ashland Avenue, Calumet-Sag Channel	0.022	0.022	0.022	0.022	0.019	0.020	0.020	0.018	0.020	0.021	ND
59 Cicero Avenue, Calumet-Sag Channel	0.022	0.023	0.023	0.021	0.021	0.019	0.021	0.019	0.019	0.021	ND
43 Route 83, Calumet-Sag Channel	0.023	0.022	0.024	0.023	0.021	0.019	0.021	0.017	0.020	0.022	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.062	0.059	0.065	0.071	0.085	0.095	0.091	0.071	0.061	0.055	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.035	ND	0.058	ND
89 Walnut Lane, West Branch DuPage River	0.027	0.028	0.028	0.027	0.027	0.022	0.022	0.024	0.024	0.024	ND
64 Lake Street, West Branch DuPage River	0.038	0.030	0.031	0.026	0.029	0.026	0.026	0.025	0.028	0.029	ND
79 Higgins Road, Salt Creek	0.030	0.034	0.042	0.039	0.037	0.041	0.045	0.036	0.035	0.048	ND
80 Arlington Heights Road, Salt Creek	0.027	0.024	0.028	0.024	0.028	0.028	0.024	0.027	0.024	0.025	ND
18 Devon Avenue, Salt Creek	0.028	0.024	0.028	0.024	0.028	0.027	0.024	0.026	0.024	0.027	ND
24 Wolf Road, Salt Creek	0.031	0.029	0.032	0.029	0.027	0.025	0.028	0.024	0.028	0.031	ND
109 Brookfield Avenue, Salt Creek	0.031	0.029	0.032	0.029	0.027	0.026	0.029	0.025	0.022	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.037	0.032	ND
77 Elmhurst Road, Higgins Creek	0.040	0.038	0.051	0.036	0.048	0.049	0.059	0.040	0.048	0.056	ND
78 Wille Road, Higgins Creek	0.022	0.027	0.023	0.022	0.021	0.018	0.019	0.018	0.022	0.024	ND
12 Lake-Cook Road, Buffalo Creek	0.042	0.037	0.043	0.039	0.041	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.035	0.028	0.034	0.034	0.038	0.031	0.031	0.031	0.034	0.033	ND
17 Oakton Street, Des Plaines River	0.038	0.029	0.035	0.035	0.041	0.033	0.033	0.032	0.035	0.035	ND
19 Belmont Avenue, Des Plaines River	0.034	0.029	0.035	0.033	0.037	0.031	0.032	0.027	0.033	0.033	ND
20 Roosevelt Road, Des Plaines River	0.034	0.028	0.035	0.033	0.037	0.031	0.033	0.027	0.034	0.034	ND
22 Ogden Avenue, Des Plaines River	0.033	0.028	0.033	0.031	0.033	0.028	0.031	0.027	0.032	0.033	ND
23 Willow Springs Road, Des Plaines River	0.032	0.028	0.034	0.031	0.033	0.029	0.031	0.027	0.031	0.033	ND
29 Stephen Street, Des Plaines River	0.031	0.028	0.033	0.032	0.034	0.028	0.031	0.028	0.032	0.032	ND
91 Material Service Road, Des Plaines River	0.032	0.028	0.034	0.032	0.033	0.027	0.030	0.028	0.031	0.031	ND
110 Springinsguth Road, West Branch DuPage River	0.042	0.040	0.046	0.043	0.049	0.044	0.046	ND	ND	ND	ND

ND = No Data.

**TABLE AII-108: SOLUBLE BORON MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.156	0.147	0.146	0.143	0.126	0.176	0.195	0.132	0.118	0.158	ND
103 Golf Road, West Fork North Branch Chicago River	0.125	0.122	0.103	0.149	0.138	0.178	0.130	0.122	0.139	0.139	ND
31 Lake-Cook Road, Middle Fork North Branch	0.088	0.074	0.079	0.110	0.111	0.163	0.162	0.098	0.101	0.093	ND
104 Glenview Road, North Branch Chicago River	0.131	0.115	0.111	0.141	0.133	0.170	0.146	0.130	0.148	0.143	ND
32 Lake-Cook Road, Skokie River	0.109	0.105	0.093	0.115	0.128	0.151	0.123	0.115	0.103	0.098	ND
105 Frontage Road, Skokie River	0.136	0.129	0.118	0.150	0.151	0.175	0.161	0.174	0.167	0.148	ND
34 Dempster Street, North Branch Chicago River	0.113	0.111	0.113	0.139	0.135	0.174	0.143	0.159	0.151	0.111	ND
96 Albany Avenue, North Branch Chicago River	0.123	0.120	0.105	0.139	0.141	0.177	0.141	0.150	0.148	0.129	ND
35 Central Street, North Shore Channel	0.013	0.036	0.033	0.035	0.035	0.030	0.032	0.044	0.030	0.023	ND
102 Oakton Street, North Shore Channel	0.077	0.083	0.074	0.088	0.109	0.085	0.071	0.081	0.104	0.060	ND
36 Touhy Avenue, North Shore Channel	0.161	0.156	0.164	0.186	0.180	0.168	0.158	0.173	0.169	0.196	ND
101 Foster Avenue, North Shore Channel	0.156	0.148	0.162	0.183	0.184	0.164	0.159	0.157	0.158	0.186	ND
37 Wilson Avenue, North Branch Chicago River	0.142	0.136	0.144	0.160	0.162	0.155	0.147	0.148	0.144	0.169	ND
73 Diversey Parkway, North Branch Chicago River	0.145	0.131	0.138	0.166	0.155	0.150	0.148	0.155	0.141	0.160	ND
46 Grand Avenue, North Branch Chicago River	0.134	0.123	0.129	0.155	0.152	0.161	0.142	0.150	0.146	0.168	ND
74 Lake Shore Drive, Chicago River	0.040	0.041	0.054	0.057	0.055	0.053	0.060	0.050	0.044	0.064	ND
100 Wells Street, Chicago River	0.064	0.061	0.077	0.070	0.074	0.073	0.082	0.096	0.068	0.081	ND
39 Madison Street, South Branch Chicago River	0.109	0.106	0.107	0.107	0.118	0.126	0.130	0.130	0.125	0.117	ND
108 Loomis Street, South Branch Chicago River	0.114	0.106	0.111	0.110	0.121	0.126	0.125	0.118	0.123	0.119	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.129	0.104	0.122	0.114	0.114	0.128	0.125	0.130	0.121	0.121	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.115	0.106	0.108	0.108	0.119	0.126	0.129	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.123	0.115	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.121	0.099	0.128	0.119	0.117	0.126	0.126	0.132	0.130	0.119	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.160	0.154	0.155	0.168	0.161	0.165	0.187	0.176	0.169	0.163	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.232	0.171	0.166	0.212	0.205	0.207	0.236	0.206	0.218	0.189	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.212	0.161	0.168	0.196	0.198	0.201	0.199	0.202	0.211	0.205	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.203	0.167	0.179	0.198	0.209	0.209	0.185	0.186	0.185	0.187	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.032	0.038	0.036	0.042	0.044	0.036	0.030	0.028	0.029	0.037	ND
50 Burnham Avenue, Wolf Lake	0.236	0.239	0.172	0.169	0.108	0.142	0.131	0.082	0.088	0.097	ND
55 130th Street, Calumet River	0.096	0.123	0.117	0.152	0.103	0.109	0.094	0.065	0.108	0.124	ND
86 Burnham Avenue, Grand Calumet River	0.686	0.357	0.642	0.528	0.578	0.271	0.403	0.375	0.358	0.327	ND
56 Indiana Avenue, Little Calumet River	0.115	0.134	0.146	0.167	0.131	0.111	0.109	0.113	0.145	0.143	ND
76 Halsted Street, Little Calumet River	0.172	0.176	0.197	0.195	0.218	0.193	0.170	0.177	0.186	0.194	ND
52 Wentworth Avenue, Little Calumet River	0.175	0.175	0.250	0.228	0.231	0.216	0.220	0.256	0.296	0.185	ND
54 Joe Orr Road, Thorn Creek	0.220	0.263	0.316	0.314	0.391	0.252	0.288	0.243	0.327	0.324	ND
97 170th Street, Thorn Creek	0.185	0.214	0.237	0.222	0.290	0.235	0.242	0.230	0.290	0.228	ND
57 Ashland Avenue, Little Calumet River	0.188	0.199	0.227	0.200	0.247	0.222	0.196	0.254	0.247	0.198	ND
58 Ashland Avenue, Calumet-Sag Channel	0.159	0.167	0.191	0.174	0.219	0.199	0.173	0.181	0.208	0.203	ND
59 Cicero Avenue, Calumet-Sag Channel	0.174	0.163	0.192	0.167	0.214	0.189	0.177	0.184	0.188	0.194	ND
43 Route 83, Calumet-Sag Channel	0.183	0.158	0.176	0.168	0.198	0.195	0.165	0.156	0.172	0.195	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.037	0.050	0.051	0.055	0.057	0.061	0.049	0.046	0.041	0.047	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.039	ND	0.068	ND
89 Walnut Lane, West Branch DuPage River	0.215	0.211	0.214	0.248	0.242	0.267	0.245	0.231	0.262	0.296	ND
64 Lake Street, West Branch DuPage River	0.119	0.157	0.183	0.188	0.186	0.222	0.209	0.204	0.203	0.222	ND
79 Higgins Road, Salt Creek	0.075	0.085	0.083	0.084	0.088	0.092	0.081	0.068	0.077	0.090	ND
80 Arlington Heights Road, Salt Creek	0.190	0.147	0.168	0.196	0.186	0.192	0.179	0.171	0.185	0.217	ND
18 Devon Avenue, Salt Creek	0.197	0.143	0.165	0.199	0.190	0.198	0.172	0.164	0.174	0.208	ND
24 Wolf Road, Salt Creek	0.164	0.150	0.176	0.183	0.184	0.227	0.175	0.160	0.198	0.182	ND
109 Brookfield Avenue, Salt Creek	0.184	0.156	0.180	0.181	0.199	0.254	0.178	0.158	0.227	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.159	0.182	ND
77 Elmhurst Road, Higgins Creek	0.055	0.067	0.113	0.089	0.078	0.074	0.077	0.055	0.057	0.103	ND
78 Wille Road, Higgins Creek	0.202	0.201	0.235	0.254	0.285	0.341	0.284	0.256	0.306	0.384	ND
12 Lake-Cook Road, Buffalo Creek	0.091	0.083	0.088	0.093	0.099	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.141	0.121	0.150	0.153	0.170	0.211	0.168	0.179	0.162	0.159	ND
17 Oakton Street, Des Plaines River	0.144	0.111	0.141	0.138	0.151	0.204	0.158	0.165	0.152	0.151	ND
19 Belmont Avenue, Des Plaines River	0.152	0.121	0.151	0.152	0.166	0.225	0.168	0.169	0.178	0.169	ND
20 Roosevelt Road, Des Plaines River	0.157	0.116	0.163	0.152	0.166	0.230	0.165	0.184	0.189	0.164	ND
22 Ogden Avenue, Des Plaines River	0.152	0.128	0.162	0.156	0.184	0.229	0.162	0.182	0.191	0.161	ND
23 Willow Springs Road, Des Plaines River	0.158	0.125	0.166	0.158	0.182	0.234	0.165	0.165	0.203	0.161	ND
29 Stephen Street, Des Plaines River	0.146	0.119	0.157	0.167	0.189	0.235	0.161	0.184	0.182	0.154	ND
91 Material Service Road, Des Plaines River	0.151	0.122	0.158	0.170	0.196	0.241	0.161	0.195	0.193	0.155	ND
110 Springinguth Road, West Branch DuPage River	0.077	0.084	0.094	0.076	0.077	0.074	0.110	ND	ND	ND	ND

ND = No Data.

TABLE AII-109: SOLUBLE CADMIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.001	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	ND
12 Lake-Cook Road, Buffalo Creek	0.002	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND

ND = No Data.

**TABLE AII-110: SOLUBLE COPPER MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.005	0.001	0.000	0.004	0.003	0.003	0.009	0.005	0.010	0.010	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.007	0.007	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.007	0.004	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.006	0.004	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.007	0.005	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.008	0.003	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.006	0.004	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.006	0.004	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.006	0.003	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.004	0.002	ND
36 Touhy Avenue, North Shore Channel	0.000	0.002	0.000	0.001	0.000	0.000	0.001	0.001	0.006	0.004	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.002	0.000	0.001	0.001	0.003	0.003	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.006	0.002	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.005	0.003	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.006	0.002	ND
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.001	0.001	0.001	0.003	0.002	0.004	0.003	ND
100 Wells Street, Chicago River	0.002	0.000	0.000	0.002	0.002	0.002	0.002	0.001	0.004	0.003	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.004	0.004	ND
108 Loomis Street, South Branch Chicago River	0.002	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.003	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.006	0.004	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.005	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.005	0.005	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.004	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.004	0.003	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.005	0.004	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.005	0.003	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.001	0.003	0.003	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.002	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.003	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.006	0.003	ND
54 Joe Orr Road, Thorn Creek	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.005	0.003	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.004	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.004	0.003	ND
58 Ashland Avenue, Calumet-Sag Channel	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.004	0.002	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.004	0.003	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.003	0.002	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.003	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.004	ND	0.002	ND
89 Walnut Lane, West Branch DuPage River	0.002	0.001	0.001	0.004	0.003	0.004	0.005	0.004	0.010	0.008	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.003	0.003	0.003	0.003	0.003	0.008	0.006	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.003	0.004	ND
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.000	0.002	0.002	0.002	0.003	0.002	0.009	0.008	ND
18 Devon Avenue, Salt Creek	0.001	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.007	0.005	ND
24 Wolf Road, Salt Creek	0.002	0.000	0.000	0.002	0.002	0.003	0.003	0.003	0.008	0.005	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.002	0.001	0.002	0.003	0.003	0.008	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.006	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.003	0.007	0.003	ND
78 Wille Road, Higgins Creek	0.004	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.006	0.005	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.006	0.005	ND
17 Oakton Street, Des Plaines River	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.005	0.004	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.007	0.004	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.007	0.004	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.006	0.006	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.007	0.004	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.007	0.005	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.008	0.004	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND

ND = No Data.

**TABLE AII-111: SOLUBLE CHROMIUM MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.003	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.002	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.002	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.004	0.002	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.002	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.001	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.004	0.000	ND
73 Diversy Parkway, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.002	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.002	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	0.001	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.002	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.001	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.001	0.001	0.000	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.004	0.001	0.001	0.001	0.002	0.003	0.001	0.002	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.001	0.001	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.003	0.000	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.006	0.001	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.002	0.004	0.005	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.007	0.001	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.003	0.002	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.001	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.004	0.001	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.002	0.003	0.003	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.007	0.003	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.007	0.001	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.005	0.003	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.005	0.001	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.002	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.002	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.001	0.001	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.002	0.002	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.004	0.001	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.001	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.003	0.002	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.004	0.002	0.004	0.001	0.005	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.001	ND
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.000	0.001	0.002	0.000	0.001	0.001	0.002	0.000	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.003	0.001	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.002	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.002	0.003	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.014	0.001	0.025	0.002	0.003	ND
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.004	0.001	0.013	0.002	0.001	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.002	ND
23 Willow Springs Road, Des Plaines River	0.012	0.000	0.000	0.001	0.002	0.004	0.001	0.001	0.000	0.001	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.001	0.001	0.002	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.003	0.002	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	ND	ND	ND	ND

ND = No Data.

TABLE AII-112: SOLUBLE IRON MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.120	0.020
106 Dundee Road, West Fork North Branch Chicago River	0.025	0.057	0.054	0.055	0.046	0.041	0.042	0.042	0.173	0.099	ND
103 Golf Road, West Fork North Branch Chicago River	0.023	0.041	0.049	0.024	0.037	0.029	0.031	0.025	0.123	0.090	ND
31 Lake-Cook Road, Middle Fork North Branch	0.073	0.074	0.086	0.081	0.063	0.072	0.052	0.070	0.192	0.120	0.185
104 Glenview Road, North Branch Chicago River	0.021	0.051	0.054	0.037	0.033	0.029	0.035	0.045	0.124	0.097	ND
32 Lake-Cook Road, Skokie River	0.032	0.077	0.073	0.060	0.062	0.040	0.052	0.071	0.168	0.115	0.183
105 Frontage Road, Skokie River	0.079	0.042	0.042	0.047	0.026	0.023	0.027	0.036	0.119	0.098	ND
34 Dempster Street, North Branch Chicago River	0.041	0.048	0.058	0.042	0.033	0.025	0.035	0.035	0.120	0.083	0.108
96 Albany Avenue, North Branch Chicago River	0.023	0.042	0.061	0.032	0.050	0.027	0.028	0.038	0.120	0.086	0.092
35 Central Street, North Shore Channel	0.014	0.048	0.015	0.015	0.024	0.022	0.040	0.021	0.076	0.042	0.072
102 Oakton Street, North Shore Channel	0.025	0.027	0.024	0.026	0.023	0.025	0.036	0.047	0.075	0.053	ND
36 Touhy Avenue, North Shore Channel	0.021	0.031	0.030	0.028	0.031	0.025	0.029	0.026	0.093	0.070	0.041
101 Foster Avenue, North Shore Channel	0.024	0.032	0.032	0.035	0.029	0.030	0.033	0.037	0.107	0.076	ND
37 Wilson Avenue, North Branch Chicago River	0.025	0.047	0.042	0.034	0.032	0.035	0.041	0.038	0.104	0.084	0.055
73 Diversey Parkway, North Branch Chicago River	0.028	0.044	0.045	0.039	0.035	0.036	0.043	0.049	0.108	0.080	0.067
46 Grand Avenue, North Branch Chicago River	0.026	0.041	0.048	0.038	0.033	0.033	0.042	0.048	0.106	0.081	0.058
74 Lake Shore Drive, Chicago River	0.000	0.005	0.014	0.014	0.009	0.008	0.015	0.012	0.055	0.047	0.038
100 Wells Street, Chicago River	0.011	0.017	0.029	0.017	0.014	0.014	0.020	0.021	0.068	0.053	ND
39 Madison Street, South Branch Chicago River	0.026	0.033	0.043	0.024	0.023	0.025	0.031	0.035	0.098	0.076	0.051
108 Loomis Street, South Branch Chicago River	0.027	0.031	0.045	0.024	0.021	0.033	0.032	0.027	0.096	0.079	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.045	0.043	0.056	0.025	0.019	0.019	0.034	0.028	0.105	0.112	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.032	0.039	0.043	0.024	0.021	0.023	0.034	0.030	ND	ND	0.061
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.065	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.026	0.032	0.038	0.020	0.020	0.026	0.022	0.020	0.091	0.073	0.048
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.033	0.037	0.034	0.027	0.027	0.027	0.033	0.029	0.096	0.106	0.045
42 Route 83, Chicago Sanitary & Ship Canal	0.049	0.037	0.037	0.028	0.033	0.028	0.046	0.033	0.100	0.074	0.043
48 Stephen Street, Chicago Sanitary & Ship Canal	0.025	0.043	0.038	0.030	0.033	0.025	0.041	0.031	0.103	0.078	0.056
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.058
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.026	0.044	0.035	0.028	0.031	0.025	0.033	0.030	0.100	0.079	0.048
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.006	0.004	0.004	0.005	0.006	0.044	0.032	0.038
50 Burnham Avenue, Wolf Lake	0.014	0.014	0.006	0.024	0.007	0.008	0.014	0.010	0.050	0.035	0.028
55 130th Street, Calumet River	0.002	0.014	0.007	0.016	0.008	0.007	0.004	0.011	0.054	0.044	0.041
86 Burnham Avenue, Grand Calumet River	0.110	0.107	0.101	0.128	0.034	0.070	0.057	0.052	0.220	0.142	0.248
56 Indiana Avenue, Little Calumet River	0.003	0.007	0.005	0.009	0.007	0.006	0.006	0.013	0.078	0.057	0.053
76 Halsted Street, Little Calumet River	0.022	0.030	0.034	0.030	0.032	0.038	0.038	0.037	0.107	0.082	0.068
52 Wentworth Avenue, Little Calumet River	0.071	0.069	0.067	0.072	0.061	0.082	0.084	0.054	0.155	0.120	0.255
54 Joe Orr Road, Thorn Creek	0.089	0.084	0.090	0.063	0.056	0.078	0.069	0.082	0.191	0.116	0.124
97 170th Street, Thorn Creek	0.076	0.051	0.051	0.051	0.036	0.040	0.049	0.053	0.156	0.121	ND
57 Ashland Avenue, Little Calumet River	0.052	0.055	0.051	0.062	0.031	0.046	0.081	0.057	0.136	0.104	0.110
58 Ashland Avenue, Calumet-Sag Channel	0.047	0.043	0.043	0.040	0.032	0.032	0.053	0.040	0.112	0.087	0.088
59 Cicero Avenue, Calumet-Sag Channel	0.045	0.043	0.036	0.051	0.038	0.029	0.033	0.034	0.102	0.087	0.065
43 Route 83, Calumet-Sag Channel	0.035	0.039	0.029	0.073	0.020	0.017	0.020	0.025	0.099	0.087	0.069
Des Plaines River System											
90 Route 19, Poplar Creek	0.058	0.080	0.084	0.054	0.050	0.055	0.042	0.057	0.151	0.109	0.127
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.108	ND	0.185	0.249
89 Walnut Lane, West Branch DuPage River	0.033	0.051	0.065	0.061	0.050	0.054	0.054	0.069	0.119	0.096	0.088
64 Lake Street, West Branch DuPage River	0.045	0.048	0.051	0.037	0.037	0.042	0.038	0.049	0.108	0.085	0.148
79 Higgins Road, Salt Creek	0.039	0.052	0.051	0.041	0.027	0.043	0.054	0.095	0.125	0.095	0.183
80 Arlington Heights Road, Salt Creek	0.056	0.073	0.056	0.048	0.039	0.044	0.050	0.055	0.152	0.107	0.116
18 Devon Avenue, Salt Creek	0.045	0.070	0.056	0.044	0.038	0.037	0.050	0.049	0.136	0.111	0.133
24 Wolf Road, Salt Creek	0.030	0.051	0.049	0.036	0.032	0.051	0.032	0.056	0.127	0.094	0.099
109 Brookfield Avenue, Salt Creek	0.032	0.049	0.053	0.037	0.034	0.039	0.035	0.040	0.084	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.184	0.096	0.116
77 Elmhurst Road, Higgins Creek	0.035	0.063	0.070	0.059	0.048	0.052	0.060	0.086	0.123	0.098	0.147
78 Wille Road, Higgins Creek	0.032	0.051	0.051	0.044	0.045	0.046	0.051	0.044	0.134	0.108	0.057
12 Lake-Cook Road, Buffalo Creek	0.037	0.059	0.048	0.036	0.027	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.036	0.056	0.048	0.055	0.026	0.027	0.031	0.037	0.127	0.100	0.149
17 Oakton Street, Des Plaines River	0.046	0.052	0.045	0.047	0.035	0.028	0.030	0.032	0.124	0.112	0.158
19 Belmont Avenue, Des Plaines River	0.031	0.056	0.045	0.064	0.031	0.033	0.033	0.034	0.123	0.098	0.126
20 Roosevelt Road, Des Plaines River	0.025	0.052	0.042	0.052	0.027	0.035	0.032	0.040	0.127	0.096	0.167
22 Ogden Avenue, Des Plaines River	0.036	0.053	0.046	0.046	0.035	0.037	0.042	0.046	0.121	0.105	0.132
23 Willow Springs Road, Des Plaines River	0.035	0.048	0.032	0.051	0.046	0.029	0.047	0.033	0.112	0.098	0.121
29 Stephen Street, Des Plaines River	0.031	0.058	0.036	0.035	0.021	0.019	0.039	0.026	0.118	0.110	0.108
91 Material Service Road, Des Plaines River	0.027	0.043	0.035	0.032	0.023	0.020	0.040	0.032	0.120	0.094	0.093
110 Springinsguth Road, West Branch DuPage River	0.294	0.154	0.242	0.217	0.250	0.160	0.155	ND	ND	ND	ND

ND = No Data.

**TABLE AII-113: SOLUBLE LEAD MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.007	0.006	0.004	0.002	0.002	0.004	0.002	0.000	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.002	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.002	0.002	0.003	0.002	0.004	0.001	0.001	0.001	ND
104 Glenview Road, North Branch Chicago River	0.000	0.007	0.006	0.002	0.003	0.002	0.003	0.002	0.001	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.005	0.001	0.004	0.001	0.005	0.001	0.001	0.000	ND
105 Frontage Road, Skokie River	0.000	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.007	0.006	0.002	0.004	0.001	0.004	0.002	0.001	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.006	0.005	0.002	0.003	0.001	0.004	0.002	0.001	0.001	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.003	0.001	0.003	0.001	0.001	0.000	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.005	0.001	0.003	0.001	0.003	0.001	0.001	0.001	ND
36 Touhy Avenue, North Shore Channel	0.000	0.007	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND
101 Foster Avenue, North Shore Channel	0.000	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.002	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.001	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.007	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.003	0.001	0.003	0.001	0.003	0.001	0.001	0.002	ND
100 Wells Street, Chicago River	0.000	0.000	0.005	0.002	0.003	0.001	0.002	0.002	0.001	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.005	0.002	0.004	0.001	0.003	0.002	0.001	0.000	ND
108 Loomis Street, South Branch Chicago River	0.000	0.005	0.006	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.004	0.001	0.003	0.001	0.003	0.002	0.001	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.005	0.001	0.003	0.001	0.003	ND	ND	ND	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.005	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.006	0.004	0.001	0.003	0.001	0.003	0.002	0.001	0.001	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.007	0.007	0.001	0.003	0.002	0.003	0.002	0.002	0.000	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.007	0.005	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.005	0.005	0.002	0.003	0.002	0.003	0.002	0.001	0.000	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.004	0.000	0.000	0.001	0.002	0.001	0.002	0.001	0.001	0.000	ND
50 Burnham Avenue, Wolf Lake	0.002	0.000	0.003	0.001	0.002	0.001	0.002	0.001	0.001	0.000	ND
55 130th Street, Calumet River	0.002	0.000	0.002	0.001	0.003	0.001	0.002	0.001	0.001	0.002	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.003	0.002	0.003	0.002	0.003	0.001	0.001	0.000	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.002	0.001	0.002	0.002	0.003	0.001	0.001	0.000	ND
76 Halsted Street, Little Calumet River	0.000	0.006	0.006	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.003	0.001	0.003	0.001	0.004	0.001	0.001	0.001	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.002	0.003	0.002	0.004	0.001	0.000	0.000	ND
97 170th Street, Thorn Creek	0.000	0.000	0.003	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.003	0.001	0.003	0.002	0.004	0.001	0.001	0.001	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.007	0.005	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.002	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.002	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.008	0.004	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.000	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.007	0.003	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND
64 Lake Street, West Branch DuPage River	0.000	0.009	0.003	0.002	0.004	0.001	0.003	0.002	0.001	0.000	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.002	0.003	0.002	0.005	0.001	0.001	0.000	ND
80 Arlington Heights Road, Salt Creek	0.002	0.006	0.003	0.003	0.003	0.001	0.004	0.002	0.000	0.000	ND
18 Devon Avenue, Salt Creek	0.002	0.007	0.003	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND
24 Wolf Road, Salt Creek	0.000	0.007	0.004	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND
109 Brookfield Avenue, Salt Creek	0.002	0.006	0.003	0.002	0.003	0.001	0.005	0.002	0.003	ND	
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.006	0.002	0.004	0.002	0.005	0.003	0.000	0.000	ND
78 Wille Road, Higgins Creek	0.005	0.006	0.003	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND
12 Lake-Cook Road, Buffalo Creek	0.003	0.009	0.004	0.003	0.003	ND	ND	ND	ND	ND	
13 Lake-Cook Road, Des Plaines River	0.002	0.006	0.003	0.002	0.004	0.002	0.005	0.002	0.001	0.000	ND
17 Oakton Street, Des Plaines River	0.000	0.006	0.003	0.001	0.004	0.002	0.004	0.001	0.001	0.000	ND
19 Belmont Avenue, Des Plaines River	0.000	0.006	0.003	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND
20 Roosevelt Road, Des Plaines River	0.000	0.006	0.003	0.001	0.003	0.002	0.004	0.001	0.001	0.000	ND
22 Ogden Avenue, Des Plaines River	0.002	0.006	0.003	0.002	0.004	0.001	0.004	0.003	0.001	0.000	ND
23 Willow Springs Road, Des Plaines River	0.002	0.006	0.004	0.003	0.003	0.002	0.004	0.001	0.002	0.000	ND
29 Stephen Street, Des Plaines River	0.000	0.006	0.003	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND
91 Material Service Road, Des Plaines River	0.002	0.006	0.004	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.004	0.002	0.004	0.002	0.005	ND	ND	ND	ND

ND = No Data.

TABLE AII-114: SOLUBLE NICKEL MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.003	0.002	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.001	0.003	0.002	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.003	0.001	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.002	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.001	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.002	0.001	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
102 Oakton Street, North Shore Channel	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.002	0.003	0.003	ND
36 Touhy Avenue, North Shore Channel	0.000	0.001	0.000	0.001	0.001	0.001	0.002	0.003	0.003	0.004	ND
101 Foster Avenue, North Shore Channel	0.000	0.001	0.000	0.001	0.001	0.002	0.002	0.003	0.004	0.005	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.001	0.000	0.001	0.001	0.002	0.001	0.003	0.004	0.004	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	0.001	0.001	0.002	0.002	0.003	0.004	0.004	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.002	0.000	0.002	0.002	0.003	0.003	0.005	0.006	0.004	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.001	0.001	0.004	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.003	0.002	0.008	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.003	0.004	0.005	0.006	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.002	0.001	0.002	0.002	0.004	0.004	0.003	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.001	0.002	0.001	0.002	0.002	0.004	0.004	0.003	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.001	0.001	0.003	0.002	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.002	0.002	0.002	0.003	0.003	0.005	0.003	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.003	0.004	0.004	0.004	0.004	0.005	0.003	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.002	0.002	0.005	0.004	0.005	0.007	0.005	0.007	0.004	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.002	0.001	0.004	0.003	0.004	0.005	0.005	0.006	0.003	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.002	0.002	0.004	0.004	0.004	0.004	0.005	0.005	0.003	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.002	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.001	0.001	0.001	0.002	0.002	0.003	0.002	0.006	0.003	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.002	0.000	0.001	0.001	0.001	0.004	0.001	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.001	0.000	0.002	0.001	0.002	0.003	0.001	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.002	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	ND
97 170th Street, Thorn Creek	0.001	0.001	0.001	0.001	0.002	0.004	0.002	0.001	0.006	0.002	ND
57 Ashland Avenue, Little Calumet River	0.000	0.001	0.001	0.001	0.002	0.002	0.001	0.002	0.004	0.001	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.000	0.002	0.001	0.001	0.003	0.001	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.001	0.003	0.002	0.002	0.003	0.002	ND
43 Route 83, Calumet-Sag Channel	0.001	0.000	0.001	0.002	0.001	0.002	0.002	0.002	0.004	0.001	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.001	ND
89 Walnut Lane, West Branch DuPage River	0.001	0.003	0.002	0.002	0.001	0.002	0.000	0.000	0.003	0.001	ND
64 Lake Street, West Branch DuPage River	0.000	0.004	0.001	0.002	0.002	0.002	0.000	0.000	0.002	0.002	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.003	0.002	ND
80 Arlington Heights Road, Salt Creek	0.005	0.001	0.002	0.002	0.001	0.002	0.001	0.001	0.003	0.003	ND
18 Devon Avenue, Salt Creek	0.006	0.001	0.002	0.002	0.001	0.002	0.002	0.000	0.003	0.002	ND
24 Wolf Road, Salt Creek	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.002	0.008	0.003	ND
109 Brookfield Avenue, Salt Creek	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.002	0.010	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.003	0.002	ND
78 Wille Road, Higgins Creek	0.006	0.002	0.005	0.006	0.007	0.012	0.006	0.004	0.007	0.008	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.003	0.002	0.003	0.004	0.001	ND
17 Oakton Street, Des Plaines River	0.000	0.002	0.000	0.001	0.000	0.002	0.001	0.002	0.003	0.002	ND
19 Belmont Avenue, Des Plaines River	0.000	0.001	0.001	0.001	0.002	0.005	0.002	0.003	0.005	0.002	ND
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.001	0.001	0.001	0.004	0.002	0.002	0.005	0.002	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.002	0.003	0.002	0.003	0.006	0.003	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.002	0.001	0.002	0.003	0.002	0.003	0.005	0.002	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.002	0.001	0.003	0.002	0.002	0.005	0.002	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.003	0.002	0.003	0.006	0.002	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND

ND = No Data.

**TABLE AII-115: SOLUBLE MANGANESE MEAN HISTORY
2000 THROUGH 2010**

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.076	0.054	0.043	0.056	0.039	0.059	0.054	0.032	0.034	0.057	ND
103 Golf Road, West Fork North Branch Chicago River	0.048	0.057	0.046	0.044	0.041	0.054	0.043	0.037	0.047	0.040	ND
31 Lake-Cook Road, Middle Fork North Branch	0.154	0.058	0.056	0.124	0.045	0.100	0.071	0.057	0.111	0.050	ND
104 Glenview Road, North Branch Chicago River	0.055	0.063	0.044	0.038	0.033	0.054	0.035	0.025	0.023	0.028	ND
32 Lake-Cook Road, Skokie River	0.089	0.059	0.067	0.097	0.051	0.094	0.109	0.065	0.066	0.073	ND
105 Frontage Road, Skokie River	0.025	0.032	0.026	0.021	0.012	0.021	0.020	0.012	0.013	0.027	ND
34 Dempster Street, North Branch Chicago River	0.056	0.043	0.047	0.047	0.033	0.044	0.036	0.034	0.032	0.037	ND
96 Albany Avenue, North Branch Chicago River	0.040	0.036	0.056	0.033	0.031	0.033	0.022	0.025	0.023	0.030	ND
35 Central Street, North Shore Channel	0.012	0.011	0.025	0.009	0.009	0.005	0.010	0.010	0.012	0.013	ND
102 Oakton Street, North Shore Channel	0.025	0.014	0.016	0.013	0.016	0.011	0.018	0.019	0.013	0.022	ND
36 Touhy Avenue, North Shore Channel	0.018	0.010	0.017	0.013	0.009	0.013	0.013	0.010	0.017	0.023	ND
101 Foster Avenue, North Shore Channel	0.013	0.019	0.015	0.015	0.011	0.013	0.016	0.012	0.015	0.010	ND
37 Wilson Avenue, North Branch Chicago River	0.025	0.018	0.019	0.019	0.013	0.018	0.017	0.015	0.018	0.019	ND
73 Diversey Parkway, North Branch Chicago River	0.029	0.025	0.021	0.024	0.018	0.019	0.020	0.021	0.019	0.029	ND
46 Grand Avenue, North Branch Chicago River	0.025	0.027	0.038	0.039	0.022	0.025	0.028	0.024	0.023	0.026	ND
74 Lake Shore Drive, Chicago River	0.012	0.011	0.012	0.010	0.004	0.011	0.007	0.007	0.009	0.010	ND
100 Wells Street, Chicago River	0.017	0.013	0.029	0.019	0.010	0.015	0.014	0.016	0.012	0.015	ND
39 Madison Street, South Branch Chicago River	0.031	0.021	0.028	0.024	0.014	0.040	0.020	0.022	0.023	0.019	ND
108 Loomis Street, South Branch Chicago River	0.028	0.024	0.040	0.032	0.019	0.028	0.021	0.020	0.023	0.022	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.029	0.037	0.043	0.025	0.019	0.028	0.026	0.024	0.033	0.042	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.026	0.023	0.034	0.024	0.021	0.022	0.021	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.025	0.031	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.023	0.025	0.032	0.020	0.019	0.018	0.018	0.020	0.022	0.018	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.041	0.022	0.018	0.018	0.014	0.013	0.013	0.013	0.013	0.015	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.020	0.017	0.020	0.016	0.015	0.017	0.018	0.020	0.016	0.022	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.026	0.022	0.025	0.021	0.023	0.028	0.027	0.026	0.024	0.028	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.031	0.028	0.057	0.030	0.026	0.025	0.029	0.026	0.030	0.027	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.006	0.021	0.009	0.010	0.007	0.008	0.008	0.006	0.006	0.007	ND
50 Burnham Avenue, Wolf Lake	0.022	0.010	0.013	0.008	0.005	0.008	0.014	0.004	0.006	0.004	ND
55 130th Street, Calumet River	0.017	0.014	0.036	0.013	0.011	0.012	0.014	0.005	0.004	0.007	ND
86 Burnham Avenue, Grand Calumet River	0.198	0.081	0.157	0.131	0.132	0.067	0.083	0.108	0.078	0.057	ND
56 Indiana Avenue, Little Calumet River	0.029	0.019	0.021	0.019	0.009	0.012	0.009	0.008	0.011	0.009	ND
76 Halsted Street, Little Calumet River	0.038	0.025	0.033	0.035	0.025	0.029	0.027	0.026	0.031	0.040	ND
52 Wentworth Avenue, Little Calumet River	0.093	0.084	0.105	0.096	0.084	0.089	0.114	0.090	0.094	0.089	ND
54 Joe Orr Road, Thorn Creek	0.051	0.047	0.058	0.057	0.042	0.060	0.059	0.026	0.054	0.038	ND
97 170th Street, Thorn Creek	0.062	0.060	0.061	0.058	0.051	0.061	0.064	0.046	0.046	0.043	ND
57 Ashland Avenue, Little Calumet River	0.058	0.065	0.065	0.081	0.065	0.081	0.083	0.083	0.063	0.058	ND
58 Ashland Avenue, Calumet-Sag Channel	0.050	0.035	0.042	0.038	0.037	0.039	0.036	0.033	0.043	0.039	ND
59 Cicero Avenue, Calumet-Sag Channel	0.047	0.035	0.056	0.041	0.040	0.036	0.046	0.033	0.044	0.044	ND
43 Route 83, Calumet-Sag Channel	0.047	0.034	0.048	0.042	0.038	0.039	0.057	0.024	0.034	0.043	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.067	0.054	0.090	0.050	0.047	0.077	0.048	0.040	0.057	0.063	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.029	ND	0.093	ND
89 Walnut Lane, West Branch DuPage River	0.047	0.023	0.039	0.026	0.024	0.034	0.031	0.029	0.048	0.046	ND
64 Lake Street, West Branch DuPage River	0.063	0.044	0.049	0.035	0.037	0.053	0.042	0.037	0.036	0.040	ND
79 Higgins Road, Salt Creek	0.025	0.022	0.035	0.033	0.021	0.036	0.044	0.023	0.034	0.041	ND
80 Arlington Heights Road, Salt Creek	0.032	0.023	0.039	0.031	0.014	0.024	0.030	0.020	0.018	0.021	ND
18 Devon Avenue, Salt Creek	0.042	0.030	0.051	0.030	0.017	0.026	0.031	0.021	0.020	0.027	ND
24 Wolf Road, Salt Creek	0.034	0.034	0.040	0.032	0.027	0.031	0.035	0.029	0.035	0.034	ND
109 Brookfield Avenue, Salt Creek	0.041	0.038	0.040	0.036	0.031	0.035	0.034	0.026	0.023	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.037	0.035	ND
77 Elmhurst Road, Higgins Creek	0.027	0.069	0.077	0.067	0.057	0.072	0.091	0.074	0.073	0.099	ND
78 Wille Road, Higgins Creek	0.022	0.026	0.051	0.028	0.023	0.016	0.018	0.019	0.022	0.018	ND
12 Lake-Cook Road, Buffalo Creek	0.056	0.056	0.066	0.047	0.043	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.036	0.032	0.035	0.030	0.025	0.036	0.033	0.030	0.029	0.024	ND
17 Oakton Street, Des Plaines River	0.028	0.026	0.030	0.030	0.032	0.039	0.028	0.025	0.034	0.021	ND
19 Belmont Avenue, Des Plaines River	0.038	0.029	0.034	0.032	0.032	0.045	0.035	0.029	0.052	0.032	ND
20 Roosevelt Road, Des Plaines River	0.030	0.025	0.034	0.028	0.034	0.039	0.034	0.021	0.050	0.025	ND
22 Ogden Avenue, Des Plaines River	0.026	0.020	0.033	0.028	0.026	0.029	0.028	0.033	0.027	0.021	ND
23 Willow Springs Road, Des Plaines River	0.027	0.018	0.039	0.028	0.030	0.033	0.052	0.019	0.028	0.021	ND
29 Stephen Street, Des Plaines River	0.023	0.016	0.032	0.027	0.024	0.022	0.027	0.018	0.021	0.018	ND
91 Material Service Road, Des Plaines River	0.023	0.014	0.030	0.019	0.020	0.021	0.027	0.019	0.016	0.015	ND
110 Springinsguth Road, West Branch DuPage River	0.117	0.109	0.182	0.093	0.116	0.186	0.092	ND	ND	ND	ND

ND = No Data.

TABLE AII-116: SOLUBLE MERCURY MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.093	ND	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.080	0.020	0.008	0.000	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	0.030	0.075	0.010	0.000	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	0.000	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	0.025	0.000	0.065	0.013	0.000	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	0.045	0.014	0.000	0.032	0.000	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.018	0.075	0.012	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.000	0.075	0.058	0.000	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	0.000	ND	0.000	0.008	0.000	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	0.000	0.012	ND	0.038	0.000	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	0.000	0.015	0.000	0.030	0.000	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	0.000	0.023	0.000	0.008	0.000	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0.080	0.015	0.000	0.000	0.000	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.000	0.000	0.027	0.000	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.103	0.000	0.025	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	0.167	0.015	0.090	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	0.000	0.083	0.000	0.030	0.000	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.050	0.075	0.030	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.000	0.020	0.060	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.000	0.023	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.010	0.000	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.000	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.007	0.033	0.017	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.030	0.000	0.000	0.000	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.016	0.087	0.000	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.025	0.002	0.013	0.016	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	0.090	0.000	0.028	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	ND
55 130th Street, Calumet River	ND	ND	ND	ND	0.000	ND	0.000	ND	0.020	0.000	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	0.040	0.085	0.020	0.022	0.026	0.000	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	0.000	ND	0.000	0.020	0.000	0.000	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	0.000	ND	0.000	0.000	0.019	0.000	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	0.000	0.000	ND	0.000	0.020	0.000	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	0.070	0.020	0.000	0.000	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	0.000	0.000	0.000	0.000	0.018	0.000	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	0.050	ND	0.000	0.070	0.023	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	0.000	ND	0.043	0.000	0.022	0.000	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	0.000	0.000	ND	0.000	0.028	0.000	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	0.000	ND	0.060	0.055	0.000	0.013	0.080	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	0.000	0.007	0.025	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.043	0.000	0.003	0.020	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	0.080	0.000	0.000	0.000	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.020	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.027	0.070	0.000	0.020	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	0.030	0.020	0.004	0.000	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	0.050	0.000	0.005	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.020	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	0.000	0.000	0.033	0.040	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	0.000	0.000	0.050	0.000	0.005	0.033	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	0.000	0.063	0.045	0.048	0.030	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	0.080	0.080	0.070	0.033	0.020	0.017	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0.030	0.000	0.003	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0.000	0.000	0.015	0.000	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0.025	0.090	0.004	0.025	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.018	0.015	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	0.000	ND	0.000	0.005	0.003	0.010	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	0.000	0.100	0.000	0.018	0.010	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	0.000	0.080	ND	ND	ND	ND

ND = No Data.

TABLE AII-117: SOLUBLE ZINC MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.009	0.014	0.015	0.028	0.020	0.019	0.029	0.012	0.010	0.035	ND
103 Golf Road, West Fork North Branch Chicago River	0.005	0.004	0.003	0.016	0.014	0.011	0.012	0.008	0.012	0.011	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.003	0.000	0.011	0.012	0.005	0.007	0.004	0.007	0.005	ND
104 Glenview Road, North Branch Chicago River	0.007	0.011	0.010	0.017	0.019	0.018	0.019	0.013	0.017	0.014	ND
32 Lake-Cook Road, Skokie River	0.000	0.004	0.001	0.011	0.015	0.011	0.010	0.006	0.009	0.007	ND
105 Frontage Road, Skokie River	0.013	0.014	0.010	0.019	0.022	0.023	0.019	0.022	0.021	0.012	ND
34 Dempster Street, North Branch Chicago River	0.007	0.003	0.004	0.017	0.016	0.014	0.017	0.014	0.017	0.011	ND
96 Albany Avenue, North Branch Chicago River	0.003	0.006	0.007	0.016	0.021	0.015	0.012	0.012	0.017	0.012	ND
35 Central Street, North Shore Channel	0.000	0.002	0.003	0.010	0.010	0.004	0.006	0.006	0.007	0.004	ND
102 Oakton Street, North Shore Channel	0.012	0.010	0.009	0.022	0.025	0.018	0.015	0.015	0.020	0.009	ND
36 Touhy Avenue, North Shore Channel	0.027	0.023	0.026	0.037	0.034	0.029	0.029	0.029	0.032	0.029	ND
101 Foster Avenue, North Shore Channel	0.024	0.022	0.026	0.037	0.034	0.028	0.032	0.027	0.027	0.027	ND
37 Wilson Avenue, North Branch Chicago River	0.018	0.017	0.020	0.032	0.028	0.031	0.025	0.024	0.025	0.024	ND
73 Diversey Parkway, North Branch Chicago River	0.018	0.017	0.019	0.031	0.027	0.024	0.025	0.024	0.025	0.024	ND
46 Grand Avenue, North Branch Chicago River	0.019	0.018	0.019	0.029	0.029	0.028	0.023	0.026	0.028	0.021	ND
74 Lake Shore Drive, Chicago River	0.003	0.002	0.003	0.016	0.013	0.012	0.013	0.009	0.013	0.015	ND
100 Wells Street, Chicago River	0.009	0.006	0.011	0.018	0.017	0.014	0.014	0.018	0.014	0.016	ND
39 Madison Street, South Branch Chicago River	0.012	0.015	0.016	0.021	0.021	0.023	0.027	0.023	0.023	0.018	ND
108 Loomis Street, South Branch Chicago River	0.018	0.016	0.017	0.025	0.023	0.022	0.022	0.023	0.023	0.017	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.011	0.013	0.017	0.021	0.020	0.017	0.020	0.020	0.019	0.013	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.012	0.015	0.016	0.026	0.024	0.023	0.022	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.023	0.025	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.011	0.011	0.020	0.029	0.022	0.021	0.020	0.019	0.021	0.018	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.022	0.017	0.022	0.030	0.024	0.023	0.022	0.023	0.022	0.022	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.021	0.018	0.019	0.029	0.026	0.024	0.028	0.026	0.028	0.022	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.014	0.016	0.019	0.027	0.024	0.022	0.025	0.024	0.025	0.020	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.015	0.017	0.021	0.026	0.027	0.024	0.025	0.024	0.025	0.018	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.002	0.001	0.009	0.008	0.005	0.011	0.005	0.004	0.004	ND
50 Burnham Avenue, Wolf Lake	0.000	0.001	0.001	0.010	0.007	0.004	0.004	0.001	0.004	0.003	ND
55 130th Street, Calumet River	0.003	0.000	0.002	0.012	0.017	0.008	0.008	0.003	0.007	0.005	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.026	0.008	0.019	0.031	0.020	0.021	0.021	0.031	0.024	ND
56 Indiana Avenue, Little Calumet River	0.004	0.001	0.003	0.017	0.013	0.009	0.010	0.009	0.015	0.008	ND
76 Halsted Street, Little Calumet River	0.017	0.016	0.022	0.029	0.026	0.026	0.024	0.031	0.032	0.023	ND
52 Wentworth Avenue, Little Calumet River	0.005	0.007	0.010	0.013	0.014	0.013	0.014	0.012	0.018	0.010	ND
54 Joe Orr Road, Thorn Creek	0.024	0.034	0.041	0.041	0.044	0.032	0.039	0.021	0.036	0.028	ND
97 170th Street, Thorn Creek	0.005	0.013	0.019	0.019	0.021	0.020	0.024	0.023	0.030	0.013	ND
57 Ashland Avenue, Little Calumet River	0.005	0.011	0.014	0.016	0.016	0.019	0.016	0.024	0.014	0.010	ND
58 Ashland Avenue, Calumet-Sag Channel	0.009	0.016	0.028	0.028	0.030	0.036	0.029	0.031	0.024	0.024	ND
59 Cicero Avenue, Calumet-Sag Channel	0.008	0.011	0.020	0.021	0.025	0.023	0.021	0.019	0.025	0.020	ND
43 Route 83, Calumet-Sag Channel	0.006	0.012	0.015	0.024	0.024	0.026	0.022	0.019	0.023	0.017	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.001	0.005	0.010	0.007	0.005	0.004	0.010	0.007	0.005	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.009	ND	0.014	ND
89 Walnut Lane, West Branch DuPage River	0.030	0.032	0.034	0.040	0.034	0.036	0.043	0.032	0.036	0.032	ND
64 Lake Street, West Branch DuPage River	0.014	0.022	0.025	0.030	0.029	0.027	0.032	0.027	0.026	0.027	ND
79 Higgins Road, Salt Creek	0.000	0.005	0.002	0.009	0.007	0.004	0.007	0.003	0.003	0.002	ND
80 Arlington Heights Road, Salt Creek	0.014	0.018	0.015	0.023	0.022	0.021	0.035	0.018	0.019	0.020	ND
18 Devon Avenue, Salt Creek	0.017	0.017	0.014	0.020	0.018	0.028	0.024	0.018	0.019	0.016	ND
24 Wolf Road, Salt Creek	0.015	0.016	0.019	0.021	0.024	0.029	0.025	0.025	0.029	0.019	ND
109 Brookfield Avenue, Salt Creek	0.013	0.013	0.017	0.022	0.023	0.026	0.027	0.017	0.025	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.020	ND
77 Elmhurst Road, Higgins Creek	0.000	0.007	0.017	0.011	0.020	0.017	0.021	0.016	0.013	0.012	ND
78 Wille Road, Higgins Creek	0.023	0.032	0.041	0.040	0.047	0.062	0.057	0.049	0.048	0.043	ND
12 Lake-Cook Road, Buffalo Creek	0.002	0.001	0.002	0.008	0.008	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.009	0.007	0.011	0.015	0.016	0.021	0.019	0.018	0.017	0.013	ND
17 Oakton Street, Des Plaines River	0.006	0.007	0.009	0.013	0.017	0.019	0.018	0.014	0.016	0.009	ND
19 Belmont Avenue, Des Plaines River	0.009	0.011	0.014	0.018	0.022	0.027	0.022	0.025	0.024	0.014	ND
20 Roosevelt Road, Des Plaines River	0.011	0.008	0.015	0.017	0.022	0.026	0.021	0.020	0.023	0.011	ND
22 Ogden Avenue, Des Plaines River	0.013	0.008	0.016	0.021	0.023	0.024	0.021	0.028	0.022	0.015	ND
23 Willow Springs Road, Des Plaines River	0.010	0.006	0.014	0.019	0.021	0.022	0.021	0.017	0.019	0.012	ND
29 Stephen Street, Des Plaines River	0.010	0.007	0.013	0.021	0.022	0.021	0.022	0.019	0.020	0.012	ND
91 Material Service Road, Des Plaines River	0.007	0.007	0.012	0.018	0.020	0.018	0.020	0.021	0.018	0.010	ND
110 Springinguth Road, West Branch DuPage River	0.002	0.008	0.015	0.019	0.015	0.011	0.011	ND	ND	ND	ND

ND = No Data.

TABLE AII-118: SOLUBLE SELENIUM MEAN HISTORY
2000 THROUGH 2010

Sampling Station (No. Name)	Annual Means (mg/L)										
	10	09	08	07	06	05	04	03	02	01	00
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.002	0.011	0.006	0.000	0.007	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.002	0.007	0.008	0.005	0.006	0.002	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.002	0.005	0.005	0.002	0.006	0.002	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.004	0.006	0.006	0.002	0.004	0.002	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.003	0.006	0.007	0.004	0.005	0.000	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.005	0.005	0.006	0.001	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.008	0.006	0.005	0.005	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.002	0.002	0.007	0.007	0.003	0.006	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.007	0.005	0.003	0.005	0.000	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.002	0.001	0.005	0.005	0.001	0.003	0.000	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.002	0.002	0.006	0.005	0.006	0.005	0.000	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.007	0.007	0.004	0.004	0.000	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.002	0.002	0.008	0.006	0.004	0.006	0.002	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.002	0.006	0.005	0.005	0.004	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.007	0.006	0.005	0.007	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.001	0.005	0.005	0.003	0.001	0.000	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.002	0.003	0.007	0.004	0.002	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.006	0.007	0.002	0.002	0.000	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.007	0.009	0.005	0.002	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.005	0.007	0.004	0.002	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.006	0.005	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.006	0.005	0.004	0.004	0.000	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.006	0.009	0.003	0.001	0.000	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.002	0.001	0.002	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.005	0.006	0.004	0.002	0.005	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.002	0.005	0.006	0.004	0.005	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.003	0.005	0.007	0.004	0.002	0.002	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.004	0.004	0.005	0.003	0.002	0.000	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.003	0.002	0.004	0.003	0.002	0.000	ND
86 Burnham Avenue, Grand Calumet River	0.005	0.000	0.000	0.000	0.002	0.006	0.008	0.002	0.005	0.002	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.002	0.003	0.004	0.003	0.005	0.000	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.003	0.004	0.005	0.005	0.003	0.000	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.002	0.004	0.008	0.003	0.003	0.005	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.003	0.005	0.005	0.008	0.000	0.005	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.002	0.004	0.005	0.004	0.006	0.004	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.003	0.004	0.005	0.003	0.005	0.002	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.002	0.005	0.005	0.005	0.001	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.003	0.004	0.007	0.004	0.005	0.004	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.003	0.004	0.005	0.004	0.005	0.002	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.005	0.008	0.003	0.006	0.004	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.004	0.003	0.002	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.002	0.000	0.007	0.004	0.005	0.005	0.000	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.005	0.007	0.001	0.006	0.000	ND
80 Arlington Heights Road, Salt Creek	0.008	0.000	0.000	0.000	0.001	0.007	0.005	0.002	0.004	0.000	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.008	0.005	0.003	0.002	0.000	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.006	0.006	0.003	0.008	0.000	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.003	0.011	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.002	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.009	0.006	0.003	0.002	0.002	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.004	0.006	0.000	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.006	0.005	0.005	0.010	0.002	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.002	0.000	0.005	0.008	0.003	0.006	0.004	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.006	0.006	0.004	0.005	0.000	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.003	0.006	0.000	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.002	0.001	0.008	0.007	0.005	0.010	0.002	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.006	0.005	0.003	0.005	0.000	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.006	0.006	0.002	0.006	0.000	ND
91 Material Service Road, Des Plaines River	0.008	0.000	0.000	0.000	0.000	0.006	0.006	0.003	0.003	0.001	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.008	0.005	ND	ND	ND	ND

ND = No Data.

APPENDIX AIII

**STATISTICAL ANALYSIS OF UPSTREAM AND DOWNSTREAM LOCATIONS, SAMPLE
MEANS, AND APPLICABLE SIGNIFICANCE PROBABILITY TESTS**

TABLE AIII-1: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.986	1.000	0.346	0.078	...	...
Temp (°C)	0.908	0.961	0.078	0.775	...	...
pH	0.587	1.000	0.000	...	0.418	...
Alk (mg/L)	0.937	1.000	0.259	0.082	...	...
Cl (mg/L)	0.426	0.824	0.000	...	0.010	...
Turb (NTU)	0.914	0.565	0.119	0.370	...	...
TKN (mg/L)	0.170	0.974	0.034	...	0.001	...
NH ₄ -N (mg/L)	0.669	0.998	0.021	...	...	0.002
NH ₃ -N (mg/L)	0.271	0.715	0.060	0.013	...	...
ORG-N (mg/L)	0.181	0.698	0.020	...	0.005	...
NO ₂ + NO ₃ (mg/L)	0.283	0.983	0.000	0.000	...	...
TS (mg/L)	0.735	0.772	0.006	...	0.003	...
TSS (mg/L)	1.000	0.541	0.039	...	0.958	...
VSS (mg/L)	0.078	0.124	0.093	0.785	...	...
TDS (mg/L)	0.847	0.780	0.005	...	0.003	...
Phenol (µg/L)	-	-	-	-	-	-
NPS (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	0.473	0.946	0.387	0.000	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.672	0.999	0.000	0.000	...	...
CN (mg/L)	-	0.026	-	-	-	-
WAD-CN (mg/L)	-	0.130	-	-	-	-
F (mg/L)	1.000	1.000	0.000	0.000	...	...
TOC (mg/L)	0.691	0.996	0.010	...	0.206	...
FC (cfu/100mL)	0.901	0.992	0.000	0.000	...	...
EColi (cfu/100mL)	1.000	1.000	0.007	...	0.291	...
Ca (mg/L)	0.738	0.998	0.143	0.006	...	...
Mg (mg/L)	0.657	0.999	0.170	0.007	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Hard (mg/L)	0.687	0.999	0.151	0.006	...	...
G. Alpha (pCi/L)	1.000	0.936	0.132	0.146	...	...
G. Beta (pCi/L)	0.981	0.999	0.014	...	0.100	...
Chlrphl ($\mu\text{g/L}$)	0.144	0.183	0.000	...	0.330	...
Bzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	1.000	1.000	0.365	0.625	...	...
B (mg/L)	-	0.996	-	-	-	-
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	0.078	0.012	0.203	...	...	0.816
Cr ⁺⁶ ($\mu\text{g/L}$)	-	-	-	-	-	-
Fe (mg/L)	1.000	0.973	0.482	0.544	...	...
Pb (mg/L)	-	-	-	-	-	-
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	0.774	0.114	0.207	0.542	...	...
Hg ($\mu\text{g/L}$)	-	-	-	-	-	-
Hg- (ng/L)	0.918	-	-	-	-	-
Zn (mg/L)	0.078	0.505	0.004	...	0.018	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	0.942	0.979	0.127	0.019	...	...
Sol. Mg (mg/L)	0.946	0.995	0.100	0.018	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	0.997	1.000	0.065	0.458	...	...
Sol. B (mg/L)	0.313	0.996	0.150	0.000	...	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	-	-	-	-	-	-
Sol. Fe (mg/L)	0.356	0.699	0.164	0.541	...	...
Sol. Pb (mg/L)	-	-	-	-	-	-
Sol. Ni (mg/L)	-	-	-	-	-	-
Sol. Mn (mg/L)	0.816	0.540	0.466	0.405	...	...
Sol. Zn (mg/L)	-	0.995	-	-	-	-
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

- = No test is done since standard deviation is either 0 or does not exist.

... = Not appropriate test.

TABLE AIII-2: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	1.000	1.000	0.042	...	0.005	...
Temp (°C)	1.000	0.942	0.467	0.544	...	...
pH	1.000	0.990	0.374	0.053	...	...
Alk (mg/L)	0.541	0.982	0.391	0.867	...	...
Cl (mg/L)	0.766	0.993	0.301	0.492	...	...
Turb (NTU)	0.978	0.995	0.153	0.001	...	...
TKN (mg/L)	0.951	0.970	0.449	0.688	...	...
NH ₄ -N (mg/L)	0.462	0.668	0.289	0.770	...	...
NH ₃ -N (mg/L)	1.000	1.000	0.419	0.618	...	...
ORG-N (mg/L)	0.991	1.000	0.267	0.395	...	...
NO ₂ + NO ₃ (mg/L)	0.992	1.000	0.086	0.021	...	...
TS (mg/L)	0.845	0.990	0.395	0.341	...	...
TSS (mg/L)	0.915	1.000	0.052	...	...	0.002
VSS (mg/L)	0.297	0.099	0.376	0.252	...	...
TDS (mg/L)	0.843	0.987	0.392	0.308	...	...
Phenol (µg/L)	-	0.042	-	-	-	-
NPS (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	0.960	0.999	0.063	0.000	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.859	0.668	0.280	0.528	...	...
CN (mg/L)	0.006	0.091	0.055	...	...	0.381
WAD-CN (mg/L)	0.013	0.042	0.239	...	...	0.726
F (mg/L)	1.000	0.856	0.475	0.217	...	...
TOC (mg/L)	0.975	0.928	0.239	0.029	...	...
FC (cfu/100mL)	1.000	0.983	0.166	0.000	...	...
EColi (cfu/100mL)	0.994	1.000	0.125	0.037	...	...
Ca (mg/L)	0.999	0.973	0.449	0.273	...	...
Mg (mg/L)	1.000	0.972	0.411	0.426	...	...

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	1.000	0.971	0.436	0.326	...	...
G. Alpha (pCi/L)	0.995	0.969	0.399	0.548	...	...
G. Beta (pCi/L)	1.000	1.000	0.227	0.097	...	...
Chlrphl (μ g/L)	0.677	0.448	0.336	0.604	...	...
Bzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	0.998	0.995	0.478	0.111	...	...
B (mg/L)	0.956	0.961	0.227	0.006	...	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	0.019	0.042	0.003	...	...	0.683
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	0.914	0.981	0.395	0.000	...	...
Pb (mg/L)	0.006	-	-	-	-	-
Ni (mg/L)	-	0.042	-	-	-	-
Mn (mg/L)	0.997	0.150	0.000	...	0.717	...
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	-	-	-	-	-	-
Zn (mg/L)	0.347	0.941	0.471	0.459	...	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	0.828	0.990	0.474	0.278	...	...
Sol. Mg (mg/L)	0.745	0.990	0.399	0.390	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	0.951	0.983	0.368	0.584	...	...
Sol. B (mg/L)	0.993	0.983	0.220	0.008	...	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	0.012	-	-	-	-	-
Sol. Fe (mg/L)	0.584	0.844	0.272	0.518	...	...
Sol. Pb (mg/L)	-	-	-	-	-	-
Sol. Ni (mg/L)	0.012	0.371	0.318	...	...	0.224
Sol. Mn (mg/L)	1.000	0.360	0.000	...	0.489	...
Sol. Zn (mg/L)	0.458	0.897	0.372	0.054	...	...
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

- = No test is done since standard deviation is either 0 or does not exist.

... = Not appropriate test.

TABLE AIII-3: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	1.000	1.000	0.294	0.007	...	...
Temp (°C)	1.000	1.000	0.266	0.784	...	...
pH	0.995	0.999	0.000	...	0.069	...
Alk (mg/L)	0.960	0.998	0.227	0.004	...	...
Cl (mg/L)	0.681	0.999	0.247	0.171	...	...
Turb (NTU)	1.000	0.690	0.040	...	0.018	...
TKN (mg/L)	0.975	1.000	0.494	0.007	...	...
NH ₄ -N (mg/L)	0.448	0.997	0.411	0.088	...	...
NH ₃ -N (mg/L)	0.996	1.000	0.213	0.391	...	...
ORG-N (mg/L)	0.987	0.953	0.428	0.008	...	...
NO ₂ + NO ₃ (mg/L)	0.706	1.000	0.011	...	...	0.001
TS (mg/L)	0.780	1.000	0.462	0.056	...	...
TSS (mg/L)	0.508	0.694	0.379	0.005	...	...
VSS (mg/L)	0.054	0.022	0.033	...	...	0.543
TDS (mg/L)	0.859	1.000	0.453	0.051	...	...
Phenol (µg/L)	-	-	-	-	-	-
NPS (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	0.944	0.818	0.083	0.302	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.296	0.992	0.008	...	0.003	...
CN (mg/L)	-	0.048	-	-	-	-
WAD-CN (mg/L)	0.022	0.120	0.093	...	...	0.330
F (mg/L)	0.983	1.000	0.091	0.001	...	...
TOC (mg/L)	0.919	1.000	0.258	0.013	...	...
FC (cfu/100mL)	1.000	0.999	0.068	0.000	...	...
EColi (cfu/100mL)	1.000	1.000	0.084	0.012	...	...
Ca (mg/L)	0.949	0.994	0.401	0.051	...	...
Mg (mg/L)	0.741	1.000	0.392	0.041	...	...

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	0.891	0.999	0.400	0.047	...	...
G. Alpha (pCi/L)	0.600	0.988	0.387	0.278	...	...
G. Beta (pCi/L)	0.996	0.638	0.478	0.591	...	...
Chlrphl ($\mu\text{g/L}$)	0.572	0.839	0.000	...	0.147	...
Bnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	0.920	0.992	0.169	0.002	...	...
B (mg/L)	0.960	0.680	0.114	0.059	...	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	-	-	-	-	-	-
Cr ⁺⁶ ($\mu\text{g/L}$)	-	-	-	-	-	-
Fe (mg/L)	0.999	0.997	0.438	0.298	...	...
Pb (mg/L)	0.022	-	-	-	-	-
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	0.294	0.205	0.001	...	0.421	...
Hg ($\mu\text{g/L}$)	-	-	-	-	-	-
Hg- (ng/L)	-	-	-	-	-	-
Zn (mg/L)	0.057	0.339	0.099	0.321	...	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	0.948	1.000	0.458	0.042	...	...
Sol. Mg (mg/L)	0.874	1.000	0.447	0.043	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H ₀)					
	H ₀ :Normal (U)	H ₀ :Normal (D)	H ₀ : $\sigma_u = \sigma_d$ F	H ₀ : $\mu_u = \mu_d$ Exact T	H ₀ : $\mu_u = \mu_d$ Approx T	H ₀ : $\mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	0.990	0.973	0.184	0.003	...	...
Sol. B (mg/L)	0.978	0.973	0.066	0.076	...	...
Sol. Cd (mg/L)	-	0.042	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	-	-	-	-	-	-
Sol. Fe (mg/L)	0.042	0.401	0.001	...	...	0.094
Sol. Pb (mg/L)	-	-	-	-	-	-
Sol. Ni (mg/L)	0.042	-	-	-	-	-
Sol. Mn (mg/L)	0.977	0.875	0.214	0.526	...	...
Sol. Zn (mg/L)	0.042	0.983	0.499	...	...	0.026
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

- = No test is done since standard deviation is either 0 or does not exist.

... = Not appropriate test.

TABLE AIII-4: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.993	0.703	0.319	0.040	...	...
Temp (°C)	1.000	1.000	0.393	0.224	...	...
pH	1.000	1.000	0.384	0.941	...	...
Alk (mg/L)	0.855	0.496	0.066	0.281	...	...
Cl (mg/L)	0.999	0.622	0.040	...	0.712	...
Turb (NTU)	1.000	0.990	0.000	...	0.001	...
TKN (mg/L)	0.999	0.820	0.044	...	0.988	...
NH ₄ -N (mg/L)	0.758	0.535	0.005	...	0.339	...
NH ₃ -N (mg/L)	0.828	0.512	0.393	0.587	...	...
ORG-N (mg/L)	0.898	0.946	0.415	0.371	...	...
NO ₂ + NO ₃ (mg/L)	0.932	0.999	0.000	0.000	...	...
TS (mg/L)	0.992	0.896	0.050	0.593	...	...
TSS (mg/L)	0.946	1.000	0.002	...	0.001	...
VSS (mg/L)	0.738	0.522	0.246	0.000	...	...
TDS (mg/L)	0.965	0.885	0.049	...	0.429	...
Phenol (µg/L)	-	-	-	-	-	-
NPS (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	1.000	0.942	0.029	0.000	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.695	0.950	0.000	...	...	0.000
CN (mg/L)	0.078	0.192	0.114	0.210	...	...
WAD-CN (mg/L)	0.384	0.394	0.019	...	0.119	...
F (mg/L)	1.000	0.826	0.000	0.001	...	...
TOC (mg/L)	1.000	0.963	0.208	0.014	...	...
FC (cfu/100mL)	1.000	0.990	0.190	0.441	...	...
EColi (cfu/100mL)	1.000	0.997	0.238	0.812	...	...
Ca (mg/L)	0.987	0.965	0.028	...	0.020	...
Mg (mg/L)	0.993	0.953	0.051	0.152	...	...

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H ₀)					
	H ₀ :Normal (U)	H ₀ :Normal (D)	H ₀ : $\sigma_u = \sigma_d$ F	H ₀ : $\mu_u = \mu_d$ Exact T	H ₀ : $\mu_u = \mu_d$ Approx T	H ₀ : $\mu_u = \mu_d$ WilCox T
Hard (mg/L)	0.890	0.945	0.031	...	0.039	...
G. Alpha (pCi/L)	1.000	0.893	0.449	0.915	...	...
G. Beta (pCi/L)	1.000	0.998	0.091	0.029	...	...
Chlrphl (μg/L)	0.656	0.489	0.181	0.123	...	...
Bznz (μg/L)	-	-	-	-	-	-
Ebnzn (μg/L)	-	-	-	-	-	-
Toln (μg/L)	-	-	-	-	-	-
Xyln (μg/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	0.696	0.998	0.017	...	0.152	...
B (mg/L)	0.635	0.993	0.034	...	...	0.000
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	0.183	-	-	-	-	-
Cr ⁺⁶ (μg/L)	-	-	-	-	-	-
Fe (mg/L)	0.999	0.994	0.000	...	0.002	...
Pb (mg/L)	-	-	-	-	-	-
Ni (mg/L)	-	0.036	-	-	-	-
Mn (mg/L)	1.000	0.972	0.300	0.001	...	...
Hg (μg/L)	-	-	-	-	-	-
Hg- (ng/L)	0.596	0.406	0.451	0.467	...	...
Zn (mg/L)	0.078	0.073	0.201	0.337	...	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	0.915	0.856	0.006	...	0.007	...
Sol. Mg (mg/L)	0.988	0.999	0.048	...	0.031	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Sol. Ba (mg/L)	1.000	0.939	0.004	...	0.387	...
Sol. B (mg/L)	1.000	0.967	0.000	0.001	...	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	0.006	-	-	-	-
Sol. Cr (mg/L)	-	-	-	-	-	-
Sol. Fe (mg/L)	0.871	0.859	0.095	0.456	...	...
Sol. Pb (mg/L)	-	0.006	-	-	-	-
Sol. Ni (mg/L)	-	0.512	-	-	-	-
Sol. Mn (mg/L)	0.926	0.667	0.321	0.604	...	...
Sol. Zn (mg/L)	-	0.397	-	-	-	-
Sol. Se (mg/L)	-	0.006	-	-	-	-

¹Significance probabilities ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

-= No test is done since standard deviation is either 0 or does not exist.

...=Not appropriate test.

TABLE AIII-5: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	-	0.812	-	-	-	-
Temp (°C)	-	0.999	-	-	-	-
pH	-	0.983	-	-	-	-
Alk (mg/L)	-	1.000	-	-	-	-
Cl (mg/L)	-	0.990	-	-	-	-
Turb (NTU)	-	0.486	-	-	-	-
TKN (mg/L)	-	0.999	-	-	-	-
NH ₄ -N (mg/L)	-	0.913	-	-	-	-
NH ₃ -N (mg/L)	-	0.960	-	-	-	-
ORG-N (mg/L)	-	0.994	-	-	-	-
NO ₂ + NO ₃ (mg/L)	-	1.000	-	-	-	-
TS (mg/L)	-	0.816	-	-	-	-
TSS (mg/L)	-	0.320	-	-	-	-
VSS (mg/L)	-	0.107	-	-	-	-
TDS (mg/L)	-	0.839	-	-	-	-
Phenol (µg/L)	-	0.042	-	-	-	-
NPS (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	-	0.851	-	-	-	-
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	-	0.853	-	-	-	-
CN (mg/L)	-	0.396	-	-	-	-
WAD-CN (mg/L)	-	0.459	-	-	-	-
F (mg/L)	-	1.000	-	-	-	-
TOC (mg/L)	-	0.549	-	-	-	-
FC (cfu/100mL)	-	0.885	-	-	-	-
EColi (cfu/100mL)	-	1.000	-	-	-	-
Ca (mg/L)	-	1.000	-	-	-	-
Mg (mg/L)	-	0.992	-	-	-	-

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H ₀)					
	H ₀ :Normal	H ₀ :Normal	H ₀ : $\sigma_u = \sigma_d$	H ₀ : $\mu_u = \mu_d$	H ₀ : $\mu_u = \mu_d$	H ₀ : $\mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Hard (mg/L)	-	0.998	-	-	-	-
G. Alpha (pCi/L)	-	0.931	-	-	-	-
G. Beta (pCi/L)	-	0.986	-	-	-	-
Chlrphl (μ g/L)	-	0.978	-	-	-	-
Bzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	-	1.000	-	-	-	-
B (mg/L)	-	1.000	-	-	-	-
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	-	-	-	-	-	-
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	-	0.812	-	-	-	-
Pb (mg/L)	-	-	-	-	-	-
Ni (mg/L)	-	0.095	-	-	-	-
Mn (mg/L)	-	0.206	-	-	-	-
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	-	1.000	-	-	-	-
Zn (mg/L)	-	0.985	-	-	-	-
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	-	1.000	-	-	-	-
Sol. Mg (mg/L)	-	0.994	-	-	-	-
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2010

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	-	0.905	-	-	-	-
Sol. B (mg/L)	-	1.000	-	-	-	-
Sol. Cd (mg/L)	-	0.042	-	-	-	-
Sol. Cu (mg/L)	-	0.042	-	-	-	-
Sol. Cr (mg/L)	-	-	-	-	-	-
Sol. Fe (mg/L)	-	0.461	-	-	-	-
Sol. Pb (mg/L)	-	0.090	-	-	-	-
Sol. Ni (mg/L)	-	0.783	-	-	-	-
Sol. Mn (mg/L)	-	0.994	-	-	-	-
Sol. Zn (mg/L)	-	1.000	-	-	-	-
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

- = No test is done since standard deviation is either 0 or does not exist.

... = Not appropriate test.