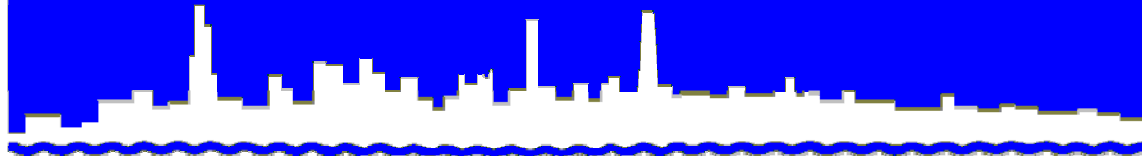


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***RESEARCH AND DEVELOPMENT  
DEPARTMENT***

*REPORT NO. 08-56*

***2007 ANNUAL SUMMARY REPORT  
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF  
THE METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO***

***SEPTEMBER 2008***

**Metropolitan Water Reclamation District of Greater Chicago**  
**100 East Erie Street Chicago, Illinois 60611-2803 312-751-5600**

2007 ANNUAL SUMMARY REPORT  
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF  
THE METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

By

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September 2008

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Parameter	Sample Mean during 2007	Violation History through 2007	Mean History through 2007
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Carbonaceous Biochemical Oxygen Demand			AII-64
Dissolved Oxygen	AII-1	AII-18	AII-65
Temperature	AII-1	AII-19	AII-66
pH	AII-1	AII-20	AII-67
Alkalinity (Total)	AII-1		AII-68
Chloride	AII-2	AII-21	AII-69
Turbidity	AII-2		AII-70
Electrical Conductivity			AII-71
Total Kjeldahl Nitrogen	AII-2		AII-72
Ammonium Nitrogen	AII-2	AII-22	AII-73
Un-ionized Ammonia	AII-3	AII-23	AII-74
Organic Nitrogen	AII-3		AII-75
Nitrite Plus Nitrate Nitrogen	AII-3		AII-76
Total Solids	AII-3		AII-77
Total Volatile Solids			AII-78
Total Suspended Solids	AII-4		AII-79
Volatile Suspended Solids	AII-4		AII-80
Total Dissolved Solids	AII-4	AII-24	AII-81
Phenols	AII-4	AII-25	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
Total Cyanide	AII-5	AII-28	AII-87

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Parameter	Sample Mean during 2007	Violation History through 2007	Mean History through 2007
	Page	Page	Page
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-6	AII-31	AII-91
Escherichia Coli	AII-7		AII-92
Total Calcium	AII-7		AII-93
Total Magnesium	AII-7		AII-94
Hardness	AII-7		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-8	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-9	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-10	AII-42	AII-107
Total Copper	AII-11	AII-43	AII-108
Total Chromium	AII-11	AII-44	AII-109
Total Hexavalent Chromium	AII-11	AII-45	AII-110
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Parameter	Sample Mean during 2007	Violation History through 2007	Mean History through 2007
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Total Nickel	AII-12	AII-48	AII-113
Total Manganese	AII-12	AII-49	AII-114
Total Mercury*		AII-50	
Total Mercury	AII-12	AII-51	AII-115
Low Level Mercury	AII-13		AII-116
Total Zinc	AII-13	AII-52	AII-117
Total Selenium	AII-13	AII-53	AII-118
Soluble Calcium	AII-13		AII-119
Soluble Magnesium	AII-14		AII-120
Soluble Silver	AII-14		AII-121
Soluble Arsenic	AII-14	AII-54	AII-122
Soluble Barium	AII-14		AII-123
Soluble Boron	AII-15		AII-124
Soluble Cadmium	AII-15	AII-55	AII-125
Soluble Copper	AII-15	AII-56	AII-126
Soluble Chromium	AII-15	AII-57	AII-127
Soluble Iron	AII-16	AII-58	AII-128
Soluble Lead	AII-16	AII-59	AII-129
Soluble Nickel	AII-16	AII-60	AII-130
Soluble Manganese	AII-16		AII-131
Soluble Mercury	AII-17	AII-61	AII-132
Soluble Zinc	AII-17	AII-62	AII-133
Soluble Selenium	AII-17		AII-134

\*Due to Human Health Standard in General Use Waters



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## **ACKNOWLEDGMENTS**

We recognize and appreciate the efforts of the staff of the Analytical Laboratories, Industrial Waste, and Environmental Monitoring and Research Divisions in collecting and analyzing waterways samples.

We acknowledge the helpful review comments of Dr. Catherine O'Connor, Research Scientist IV, and Dr. Thomas Granato, Assistant Director, Research and Development, Environmental Monitoring and Research Division.

This manuscript was produced by an automated L<sup>A</sup>T<sub>E</sub>X program that accessed auxiliary programs in SAS and Visual Basic. These auxiliary programs generate data for text, tables, figures, and results of statistical analysis to logically feed the L<sup>A</sup>T<sub>E</sub>X program responsible for final output of the manuscript.

Thanks and special appreciations go to Ms. Laura Franklin, Principal Office Support Specialist, Ms. Nancy Urlacher, Administrative Assistant, and Ms. Deborah Messina, Secretary, for proofreading, offering editorial comments, and other assistance formatting this report.

## **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 2007. In addition, the District compared these data with data for 2006.

### Compliance with Water Quality Standards During 2007

**General Use Waters.** Thirty-one out of 67 water quality parameters assayed were subject to IPCB standards. They were dissolved oxygen, 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, soluble mercury, 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 Du Page River System, and the Fox River System (Poplar Creek).

Twenty-three water quality parameters were in total compliance with the standards in all river systems. They were temperature, ammonium nitrogen, phenols, weak acid dissociable cyanide, 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. Benzene was in total compliance with the Human Health Standard in all river systems.

Of the remaining eight parameters, one parameter, soluble mercury, was in total compliance in the Des Plaines River System and not assayed in the Chicago and Calumet River Systems. Five parameters (dissolved oxygen, pH, chloride, sulfate, and fluoride) had compliance rates greater than 83.0 percent in all river systems. Total dissolved solids had compliance rates of 77.0, 79.8, and 87.8 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems. Fecal coliform had the lowest compliance rate in the range of 43.4 to 47.7 percent in all river systems. The compliance rates for total mercury with Human Health Standards were 81.9, 94.8, and 89.3 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems.

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates with water quality standards except for dissolved oxygen, pH, total dissolved solids, and total mercury. In the Chicago River System, the compliance rate for dissolved oxygen significantly decreased from 96.2 percent in 2006 to 83.0 percent in 2007, and the compliance rate for total dissolved solids significantly decreased from 89.8 percent in 2006 to 77.0 percent in 2007. In the Calumet River System, the compliance rate for dissolved oxygen significantly decreased from 97.2 percent in 2006 to 86.4 percent in 2007, and the compliance rate for total mercury significantly increased from 83.1 percent in 2006 to 94.8 percent in 2007. In the

Des Plaines River System, the compliance rate for pH significantly increased from 93.9 percent in 2006 to 98.6 percent in 2007.

Comparison of data for Human Health Standards indicated that there was no significant difference between 2007 and 2006 compliance rates except for total mercury. Only in the Calumet River System, the compliance rate for total mercury significantly increased from 83.1 percent in 2006 to 94.8 percent in 2007.

**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 2007 were subject to IPCB standards. They were dissolved oxygen; 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.

Seventeen parameters were in complete compliance with the IPCB standards in the Chicago and Calumet River Systems in 2007. They were temperature; pH; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total nickel; total manganese; total mercury; total zinc; and total selenium.

The remaining six parameters (dissolved oxygen, un-ionized ammonia, total dissolved solids, total iron, total lead, and soluble iron) had compliance rates greater than 93.0 percent in both river systems.

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates with water quality standards except for total dissolved solids. In the Chicago River System, the compliance rate for total dissolved solids significantly decreased from total compliance in 2006 to 95.3 percent in 2007.

## 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 2006. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2007.

It should be noted that the Illinois Environmental Protection Agency (IEPA) 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 manmade 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 runoffs.
- 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.

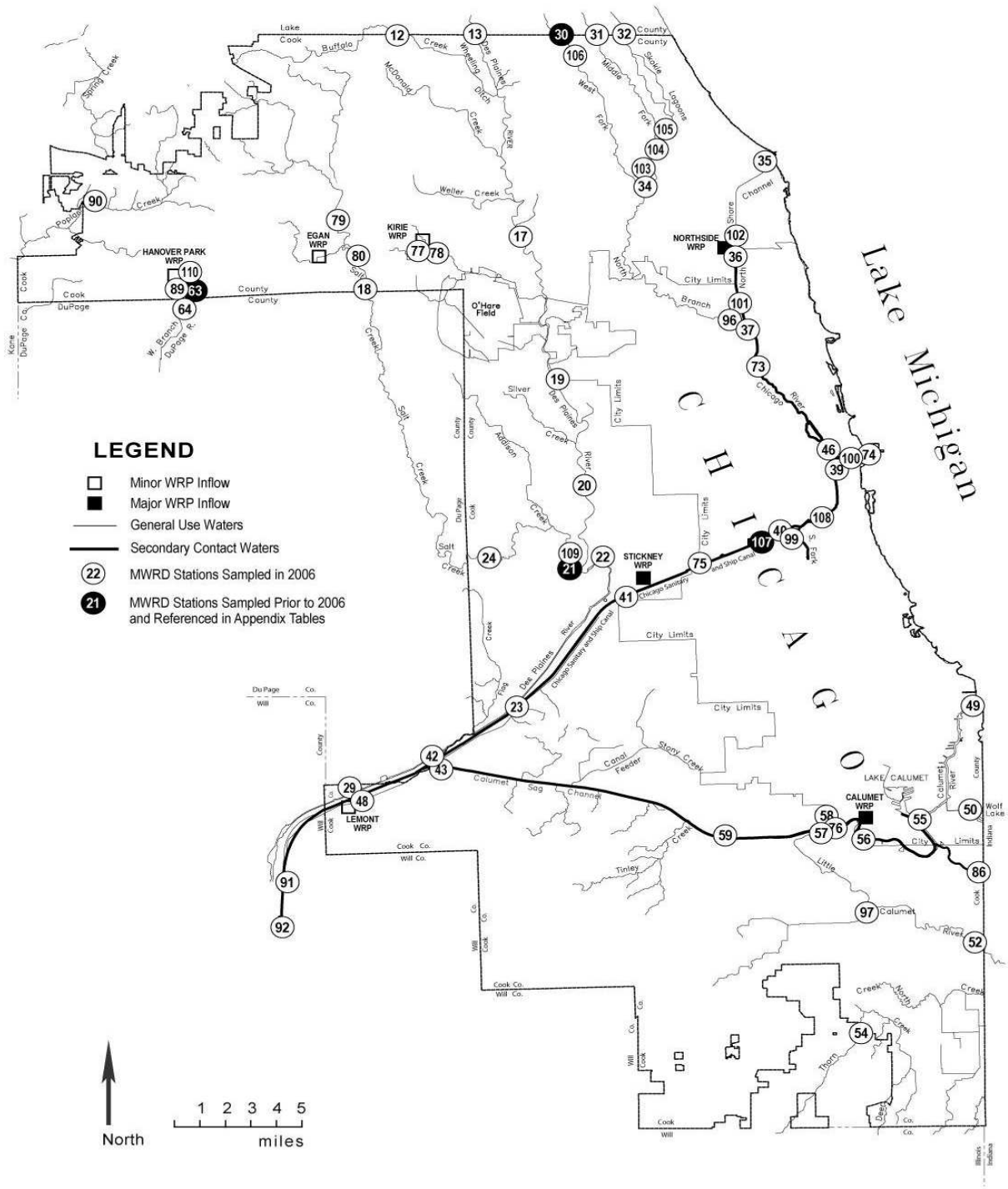
**Water Use Designations.** IPCB Regulations, Section 303.201, specify that "except as otherwise specifically provided, all waters of the State must meet the General Use standards for Subpart B of Part 302." Section 303.441 delineates those waters which do not qualify for General Use but "... are designated 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 2007 and sampling stations are listed in Tables AI-1 and AI-2, respectively.

Summary water quality results for 2007 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-46. Note that Tables AII-2 through AII-46 list the sampling locations where violations occurred during 2007 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-47 through AII-118 (Appendix AII) were designed to present the mean values of various parameters for 1993 through 2006, with the 2007 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 Water Reclamation Plant (WRP) are significantly different.

## **Water Sampling**

Surface water grab samples were taken at 59 locations during 2007. Their locations, as well as the locations of recently discontinued sampling stations, are as shown in Figure 1. The samples were taken on 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 2007 is shown in Table 1. Note, that samples taken in the West Branch of the Du Page River (upstream and downstream of the Hanover Park WRP 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 2007 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



TABLE 1: TOTAL NUMBER OF WATERWAYS (BRIDGE RUNS) SAMPLES  
COLLECTED MONTHLY DURING 2007

Month	River System		
	Chicago	Calumet	Des Plaines
January	29	13	20
February	16	9	7
March	28	13	18
April	29	13	19
May	28	13	19
June	28	13	20
July	29	12	18
August	29	13	20
September	28	13	19
October	29	13	20
November	28	12	18
December	23	NS	19

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

locations in the Du Page and Fox River Systems). The waterways system sampling station numbers correspond to the map numbers shown in Figure 1. The waterways system sampling station numbers correspond to the map numbers shown in Figure 1. The complete waterways sampling stations directory of all 107 stations, of which the 59 sampling locations in 2007 are a subset, are 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 2007. 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). The related IPCB rule number with the effective date of each rule are also included.

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.

**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 (dissolved oxygen, 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 dissolved oxygen, temperature, and fecal coliform are given in Table 3. In the case of dissolved oxygen, there are two standards, one based on 16 hours/day and the other based on all times. Since the District samples once per month, the District cannot define a 16-hour/day level. The District, therefore, interprets the IPCB standard for dissolved oxygen 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 General Use water quality standards for chromium are specified separately for the trivalent (dissolved fraction) and hexavalent (total fraction) 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

TABLE 2: WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2007<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Dissolved Oxygen	5 mg/L <sup>5</sup>	302.206	4 mg/L 3 mg/L <sup>6</sup>	302.405 302.405
Temperature	32 °C <sup>7</sup> (Apr-Nov)	302.211	≤34.0 °C 95% of the time	302.408
Temperature	16 °C <sup>7</sup> (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 <sup>8</sup>	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
Sulfate	500 mg/L	302.208	NAS*	
Fats, Oils, and Greases	NAS*		15 mg/L	302.407
Total Phosphorus	NAS*		NAS*	
Total Cyanide	NAS*		0.1 mg/L	302.407

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2007<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
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 cfu/100mL	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	302.208	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*	
Total Hexavalent Chromium	16 µg/L	302.208	300 µg/L	302.407

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2007<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
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	302.208	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 <sup>9</sup>	302.208	NAS*	
Soluble Copper	mg/L <sup>10</sup>	302.208	NAS*	
Soluble Chromium	mg/L <sup>11</sup>	302.208	NAS*	
Soluble Iron	1 mg/L	302.208	0.5 mg/L	302.407
Soluble Lead	mg/L <sup>12</sup>	302.208	NAS*	
Soluble Nickel	mg/L <sup>13</sup>	302.208	NAS*	
Soluble Manganese	NAS*		NAS*	
Soluble Mercury	2.21 µg/L	302.208	NAS*	
Soluble Zinc	mg/L <sup>14</sup>	302.208	NAS*	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2007<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Soluble Selenium	NAS*		NAS*	

<sup>1</sup>Water Quality Standards from 'State of Illinois Rules and Regulations', Title 35: Environmental Protection, Subtitle C: Water Pollution.

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

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

<sup>4</sup>Section Number from 1 above.

<sup>5</sup>Water Quality Standard as interpreted by the District. Due to such factors as type of assay, infrequent sampling, etc. strict adherence to IPCB requirements was not possible (see text).

<sup>6</sup>Calumet-Sag Channel only.

<sup>7</sup>The upper value can not be exceeded during more than 1% of the hours in the preceding 12-month period. The lower value can not be exceeded any time.

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

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

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

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

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

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

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

\*NAS = No Applicable Standard.

\*\* = Human Health Standard.

TABLE 3: ILLINOIS POLLUTION CONTROL BOARD (IPCB)  
WATER QUALITY STANDARDS AND CORRESPONDING  
DISTRICT'S INTERPRETATIONS FOR 2007

Parameter	Water Use Designation	IPCB Standard	District Interpreted Standard
1. Dissolved Oxygen	General Use Waters	$\geq 6.0$ mg/L at least 16 hours/day	$\geq 5.0$ mg/L anytime
	Secondary Contact Waters	$\geq 5.0$ mg/L at least 16 hours/day	$\geq 4.0$ mg/L anytime
	Secondary Contact Waters	$\geq 4.0$ mg/L any time	
	(Calumet Sag Channel effective 5/19/88)	$\geq 3.0$ mg/L anytime	$\geq 3.0$ mg/L anytime
2. Temperature	Secondary Contact Waters	$\leq 34.0$ °C, 95% of the time	$\leq 37.8$ °C
		$\leq 37.8$ °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 $\leq 200$ cfu/100 mL; $\leq 400$ cfu/100 mL in 90% of the samples	$\leq 400$ cfu/100 mL anytime

the measured total chromium concentrations. However, since January 2003, the District has assayed for total chromium, total hexavalent chromium and soluble chromium. The General Use standard currently contains a limit for total hexavalent chromium and for soluble trivalent chromium. The District applies the analysis of soluble chromium to the soluble trivalent chromium standard. The IPCB chromium standard for secondary contact and indigenous aquatic life include both a total hexavalent and total trivalent limit. The District applies the total chromium analysis to the total 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 locations sampled in General Use Waters during 2007 is shown in Table 4. Of the five river systems sampled during 2007, three (Des Plaines, Du Page, and Fox) lie entirely within the General Use classification. The General Use Waters in the Chicago and Calumet River Systems mostly consists 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 Du Page 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 of the Hanover Park WRP treated effluent discharge into the West Branch of the Du Page River (Station 64). The frequency of sampling during 2007 was once per month at most locations. Table 4 shows the frequency of sampling at all General Use locations in 2007.

### River System Compliance Data

In the General Use Waters sampled during 2007, 31 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 23 parameters which were in 100 percent compliance in all river systems were temperature, ammonium nitrogen, phenols, weak acid dissociable cyanide, 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. Soluble mercury was not assayed in the Chicago and Calumet River Systems. However, soluble mercury had total compliance in the Des Plaines River System. One parameter, benzene, was in total compliance with the Human Health Standard in all river systems.

The seven water quality parameters and one Human Health parameter which were in less than complete compliance in 2007 are shown in Table 5. The percent compliance for these parameters in each river system is also presented.

**Chicago River System.** There are 13 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 2007.

TABLE 4: LOCATIONS SAMPLED AND ANNUAL SAMPLING  
 FREQUENCIES OF GENERAL USE WATERS IN 2007

Map No. <sup>1</sup>	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
106	Dundee Road, West Fork North Branch Chicago River	4
103	Golf Road, West Fork North Branch Chicago River	11
31	Lake-Cook Road, Middle Fork North Branch	10
104	Glenview Road, North Branch Chicago River	11
32	Lake-Cook Road, Skokie River	10
105	Frontage Road, Skokie River	11
34	Dempster Street, North Branch Chicago River	11
96	Albany Avenue, North Branch Chicago River	11
35	Central Street, North Shore Channel	9
102	Oakton Street, North Shore Channel	12
74	Lake Shore Drive, Chicago River	11
100	Wells Street, Chicago River	11
		<u>122</u>
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	10
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	10
97	170th Street, Thorn Creek	11
57	Ashland Avenue, Little Calumet River	11
		<u>74</u>
<u>Des Plaines River System</u>		
79	Higgins Road, Salt Creek	10
80	Arlington Heights Road, Salt Creek	12
18	Devon Avenue, Salt Creek	12
24	Wolf Road, Salt Creek	11
109	Brookfield Avenue, Salt Creek	11
77	Elmhurst Road, Higgins Creek	5
78	Wille Road, Higgins Creek	12
12	Lake-Cook Road, Buffalo Creek	9
13	Lake-Cook Road, Des Plaines River	12
17	Oakton Steet, Des Plaines River	11

TABLE 4 (Continued): LOCATIONS SAMPLED AND ANNUAL SAMPLING  
 FREQUENCIES OF GENERAL USE WATERS IN 2007

Map No. <sup>1</sup>	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	11
23	Willow Springs Road, Des Plaines River	11
29	Stephen Street, Des Plaines River	11
91	Material Service Road, Des Plaines River	11
		<u>171</u>
<u>Du Page River System</u>		
89	Walnut Lane, West Branch DuPage River	12
64	Lake Street, West Branch DuPage River	12
110	Springinsguth Road, West Branch DuPage River	10
		<u>34</u>
<u>Fox River System</u>		
90	Route 19, Poplar Creek	12
		<u>12</u>

<sup>1</sup>Refer to Figure 1.

TABLE 5: WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE  
IN GENERAL USE WATERS OF ALL RIVER SYSTEMS IN 2007

Parameter	Estimated Percent Compliance*		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	83.0	86.4	94.0
pH	100.0	97.2	98.6
Chloride	94.3	100.0	93.1
Total Dissolved Solids	77.0	79.8	87.8
Sulfate	100.0	89.4	100.0
Fluoride	100.0	89.4	99.5
Fecal Coliform	45.6	47.7	43.4
Total Mercury**	81.9	94.8	89.3
Soluble Mercury			100.0

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

\*\*Due to Human Health Standard.

Twenty-six parameters were in 100 percent compliance at each of the locations. In addition to the 23 parameters listed above, pH, sulfate, and fluoride were also in total compliance. Violations of the General Use Standards for the remaining four parameters (dissolved oxygen, chloride, total dissolved solids, and fecal coliform) and one Human Health Standard (total mercury) occurred in at least one of the locations sampled. Detailed violation records for the noncompliant parameters are shown in [Table 6](#).

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates except for dissolved oxygen and total dissolved solids. In the Chicago River System, the compliance rate for dissolved oxygen significantly decreased from 96.2 percent in 2006 to 83.0 percent in 2007, and the compliance rate for total dissolved solids significantly decreased from 89.8 percent in 2006 to 77.0 percent in 2007.

**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. Twenty-four parameters were in 100 percent compliance at each of the locations. In addition to the 23 parameters listed above, chloride was also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 7](#).

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates except for dissolved oxygen and total mercury. In the Calumet River System, the compliance rate for dissolved oxygen significantly decreased from 97.2 percent in 2006 to 86.4 percent in 2007, and the compliance rate for total mercury significantly increased from 83.1 percent in 2006 to 94.8 percent in 2007.

**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 Du Page River and one sampling location (90) on Poplar Creek are included in this sampling program.

Twenty-five parameters were in 100 percent compliance at each of the locations. In addition to the 23 parameters listed above, sulfate and soluble mercury were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 8](#).

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates except for pH. In the Des Plaines River System, the compliance rate for pH significantly increased from 93.9 percent in 2006 to 98.6 percent in 2007.

The compliance rates for 31 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.

TABLE 6: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF  
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF  
THE CHICAGO RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
DO	103	3	Jul, Sep, and Oct
	31	4	Jul, Aug, Oct, and Nov
	104	4	Jul, Aug, Sep, and Oct
	32	3	Jul, Aug, and Oct
	105	1	Aug
	34	4	Jul, Aug, Sep, and Oct
	96	1	Sep
	102	2	Jul, and Aug
	74	1	Jul
		<b><u>23</u></b>	Total violation of <b>Dissolved Oxygen (DO)</b>
Cl	103	2	Mar, and Apr
	104	1	Dec
	34	1	Dec
	96	1	Dec
	100	1	Dec
		<b><u>6</u></b>	Total violation of <b>Chloride (Cl)</b>
TDS	106	1	Dec
	103	5	Mar, Apr, May, Jun, and Dec
	31	3	May, Jun, and Jul
	104	1	Dec
	32	3	Apr, May, and Jun
	105	1	Mar
	34	1	Dec
	96	2	Apr, and Dec
	102	1	Feb
	100	1	Dec
		<b><u>19</u></b>	Total violation of <b>Total Dissolved Solids (TDS)</b>
FC	106	3	Jan, Aug, and Dec
	103	8	Jan, Mar, Apr, Aug, Sep, Oct, Nov, and Dec
	31	7	Jan, Apr, Jun, Jul, Aug, Sep, and Nov
	104	7	Jan, Jun, Jul, Aug, Sep, Nov, and Dec
	32	10	Jan, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, and Nov

TABLE 6 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF  
 GENERAL USE LIMITS IN THE GENERAL USE WATERS OF  
 THE CHICAGO RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
	105	1	Jun
	34	7	Jan, Jun, Jul, Aug, Sep, Oct, and Dec
	96	6	Mar, Jun, Jul, Aug, Sep, and Oct
	35	1	Jan
	102	8	Jan, Feb, Mar, Apr, Aug, Sep, Nov, and Dec
	74	2	Jun, and Aug
	100	2	Aug, and Dec
		<b>62</b>	Total violation of <b>Fecal Coliform (FC)</b>

<sup>1</sup>Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

TABLE 7: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF  
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF  
THE CALUMET RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
DO	50	2	Jun, and Jul
	52	4	Apr, May, Jun, and Jul
	57	4	May, Jul, Sep, and Oct
		<b>10</b>	Total violation of <b>Dissolved Oxygen (DO)</b>
pH	50	1	Jul
	54	1	Jan
		<b>2</b>	Total violation of <b>pH (pH)</b>
TDS	54	9	Jan, Feb, Mar, Apr, May, Jun, Sep, Oct, and Nov
	97	4	May, Jul, Sep, and Oct
	57	2	Apr, and Sep
		<b>15</b>	Total violation of <b>Total Dissolved Solids (TDS)</b>
SO <sub>4</sub>	54	4	Jun, Sep, Oct, and Nov
	97	3	Jul, Sep, and Oct
	57	1	Sep
		<b>8</b>	Total violation of <b>Sulfate (SO<sub>4</sub>)</b>
F	52	8	Jan, Apr, May, Jun, Jul, Sep, Oct, and Nov
		<b>8</b>	Total violation of <b>Fluoride (F)</b>
FC	50	2	Jul, and Aug
	55	1	Aug
	52	10	Jan, Feb, Mar, May, Jun, Jul, Aug, Sep, Oct, and Nov
	54	8	Jan, Feb, Mar, Apr, Jun, Aug, Oct, and Nov
	97	7	Feb, Mar, Jun, Jul, Aug, Oct, and Nov
	57	10	Jan, Feb, Mar, May, Jun, Jul, Aug, Sep, Oct, and Nov
		<b>38</b>	Total violation of <b>Fecal Coliform (FC)</b>

<sup>1</sup>Number of violations in each month is 1 unless otherwise indicated in the paranthesis.



TABLE 8: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF  
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF  
THE DES PLAINES RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
DO	79	1	Aug
	13	1	Sep
	17	2	Aug, and Sep
	19	2	Jun, and Aug
	20	2	Jun, and Aug
	110	<u>6</u>	Jun, Jul, Aug, Sep, Oct, and Nov
			<b>14</b>
pH	13	1	Feb
		<u>1</u>	Total violation of <b>pH (pH)</b>
Cl	90	1	Mar
	64	1	Mar
	79	2	Jul, and Dec
	80	1	Mar
	18	1	Mar
	24	1	Mar
	109	1	Mar
	78	1	Mar
	12	1	Mar
	23	2	Mar, and Dec
	29	1	Mar
	91	1	Mar
	110	<u>1</u>	Mar
			<b>15</b>
TDS	90	1	Mar
	89	1	Mar
	64	1	Mar
	79	5	Apr, May, Jun, Jul, and Dec
	80	2	Mar, and Apr
	18	2	Mar, and Apr
	24	1	Mar
	109	2	Mar, and Apr
	78	2	Mar, and Dec

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE DES PLAINES RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
	12	1	Mar
	22	2	Mar, and Dec
	23	2	Mar, and Dec
	29	1	Mar
	91	1	Mar
	110	3	Mar, Apr, and May
		<b>27</b>	Total violation of <b>Total Dissolved Solids (TDS)</b>
F	78	1	Nov
		<b>1</b>	Total violation of <b>Fluoride (F)</b>
FC	90	4	Jun, Aug, Oct, and Dec
	89	8	Jan, Feb, Mar, Apr, Jun, Oct, Nov, and Dec
	64	9	Jan, Feb, Mar, Apr, Jun, Aug, Oct, Nov, and Dec
	79	6	Jan, Apr, Aug, Sep, Oct, and Dec
	80	5	Feb, Apr, Jun, Nov, and Dec
	18	7	Feb, Jun, Jul, Aug, Oct, Nov, and Dec
	24	6	Mar, Apr, Aug, Sep, Oct, and Dec
	109	8	Mar, Apr, Jun, Jul, Aug, Sep, Oct, and Dec
	77	5	Jan, Jun, Aug, Oct, and Dec
	78	9	Jan, Feb, Mar, Apr, Jun, Aug, Oct, Nov, and Dec
	12	4	Jun, Aug, Sep, and Oct
	13	6	Feb, Apr, Jun, Aug, Oct, and Dec
	17	4	Jun, Aug, Oct, and Dec
	19	5	Jun, Jul, Aug, Oct, and Dec
	20	7	Jan, Apr, Jun, Jul, Aug, Oct, and Dec
	22	4	Jun, Aug, Oct, and Dec
	23	5	Mar, Apr, Aug, Oct, and Dec
	29	3	Apr, Aug, and Dec
	91	4	Mar, Apr, Aug, and Dec
	110	9	Jan, Apr, May, Jun, Jul, Aug, Sep, Oct, and Nov
		<b>118</b>	Total violation of <b>Fecal Coliform (FC)</b>

<sup>1</sup>Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

FIGURE 2: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2006 AND 2007

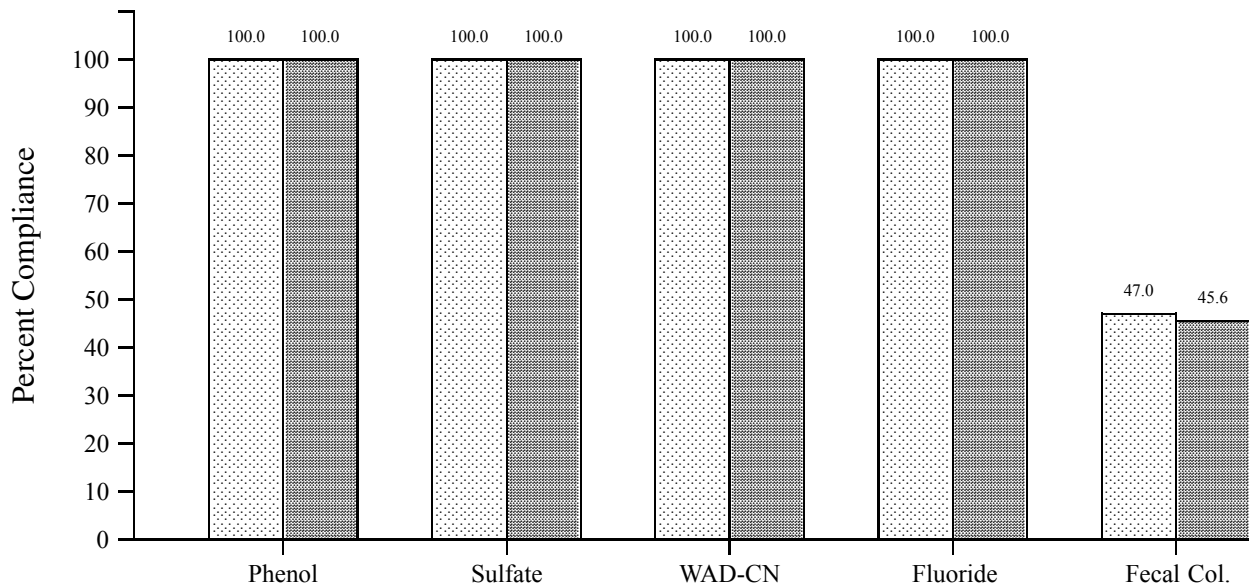
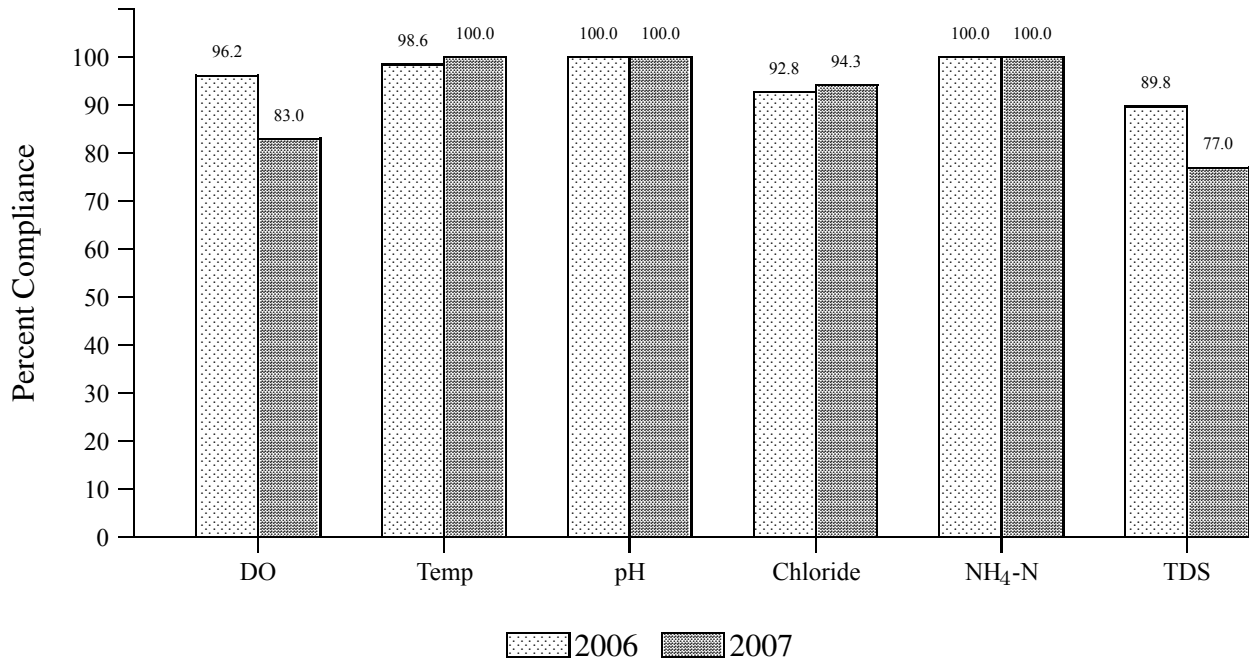


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2006 AND 2007

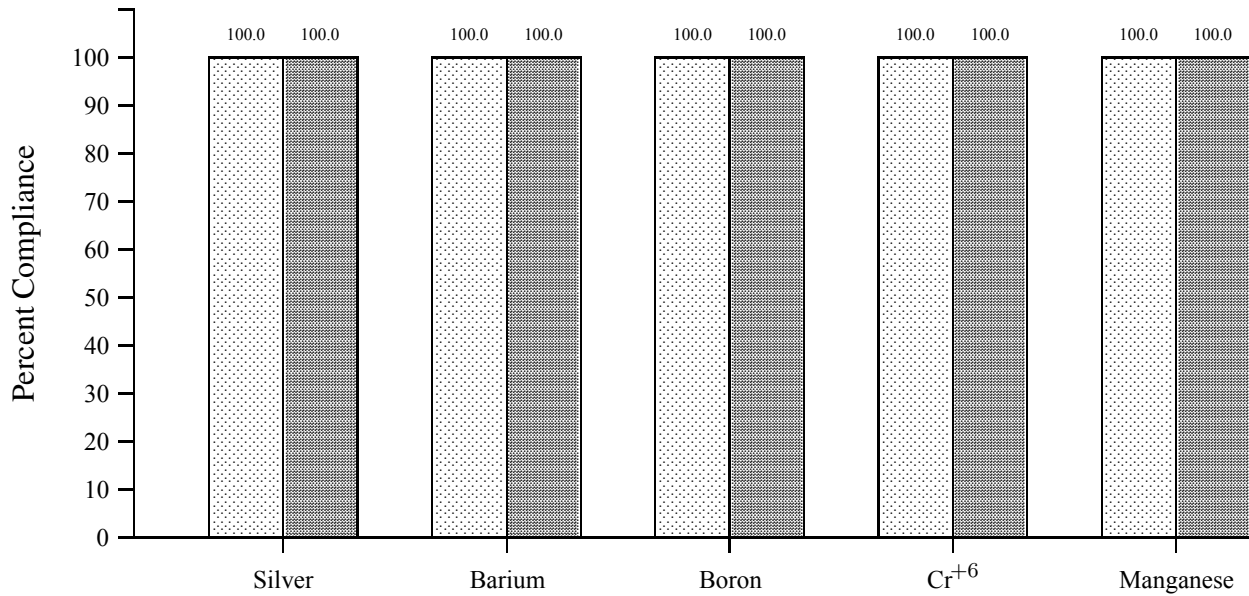
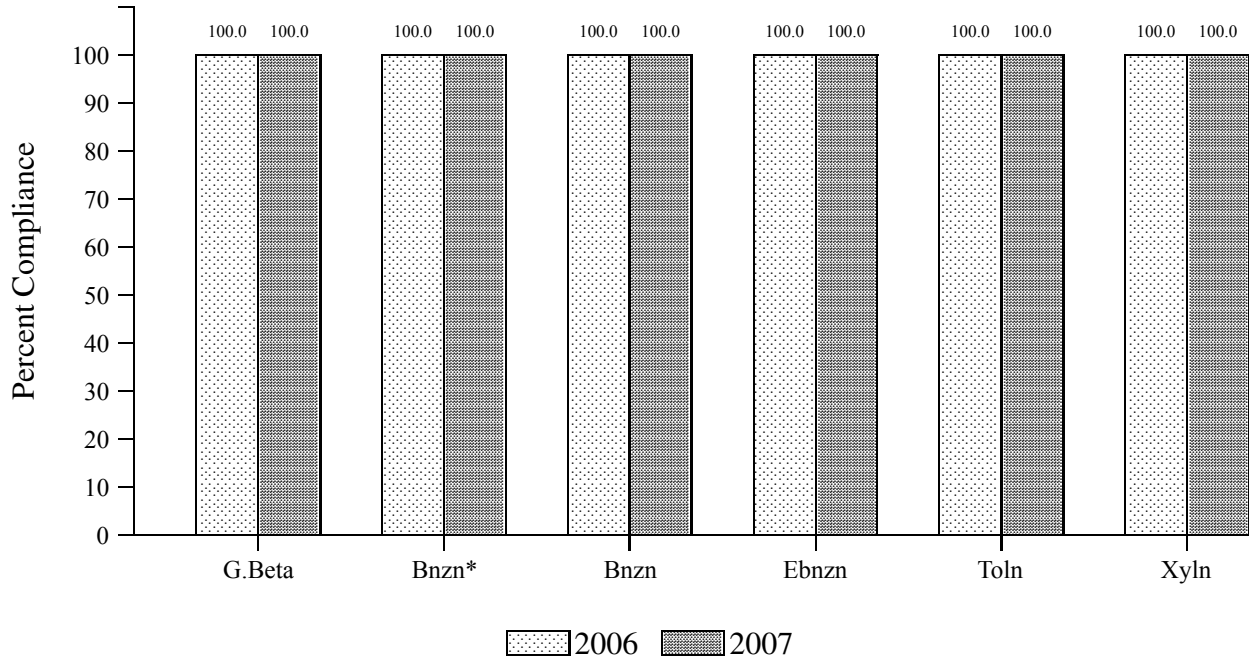
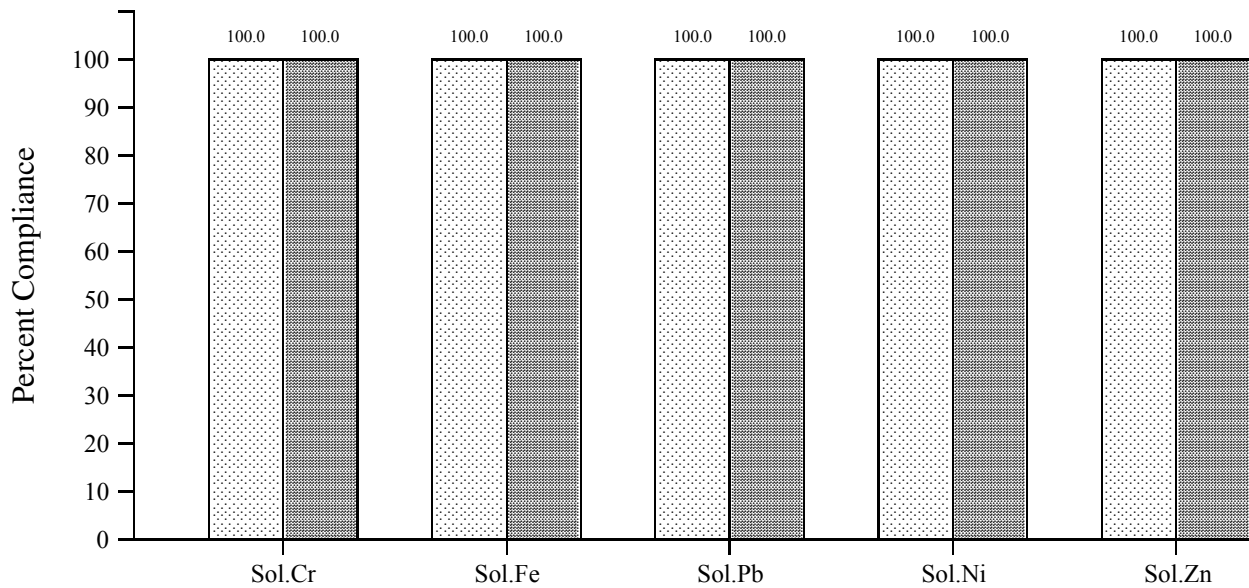
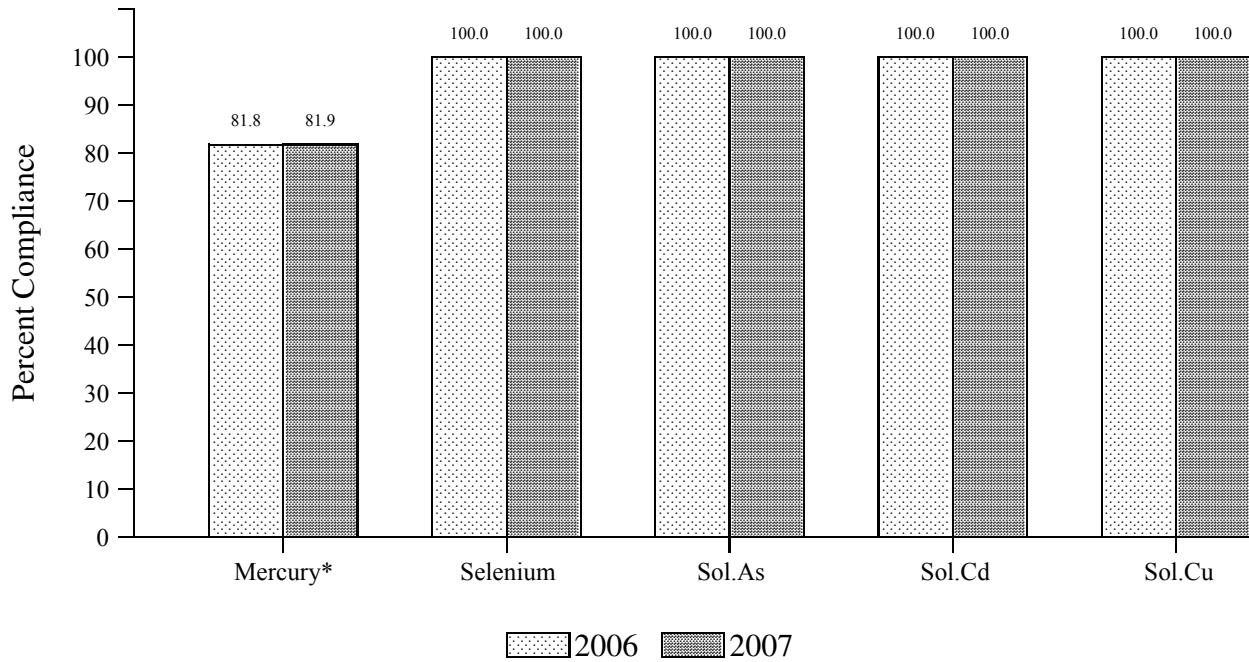


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2006 AND 2007



\*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 2006 AND 2007

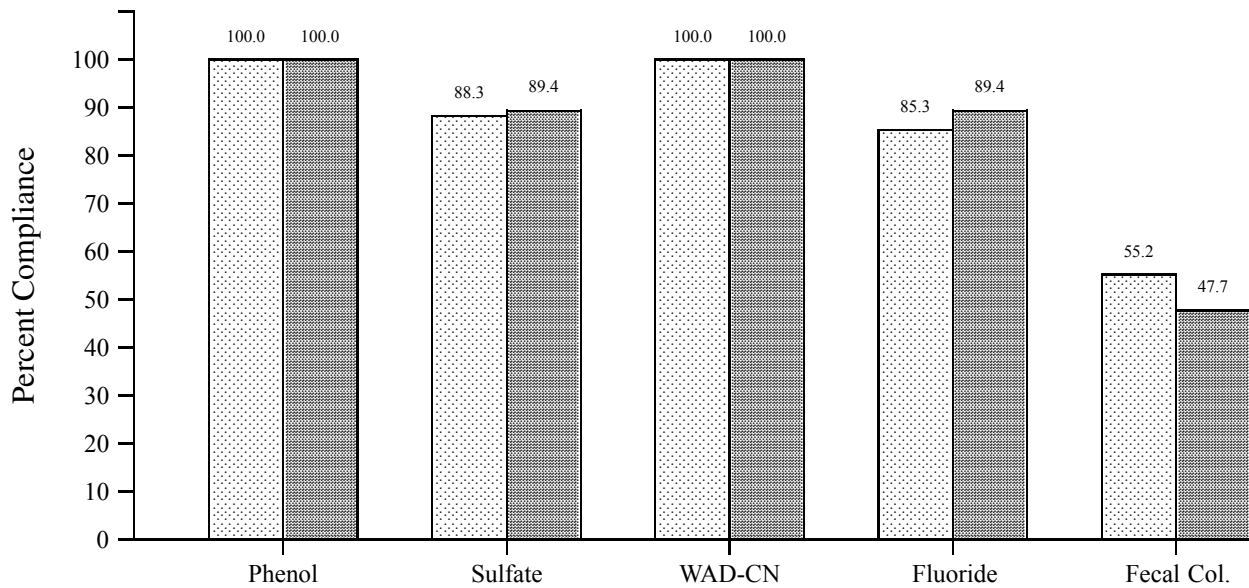
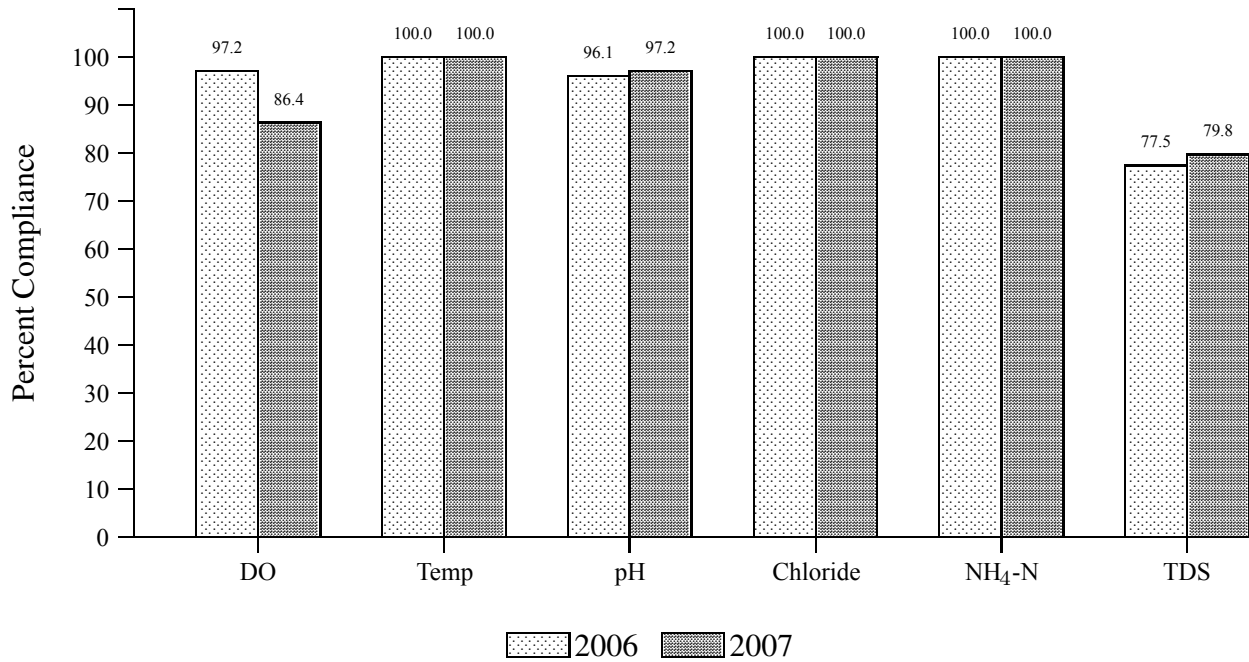


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2006 AND 2007

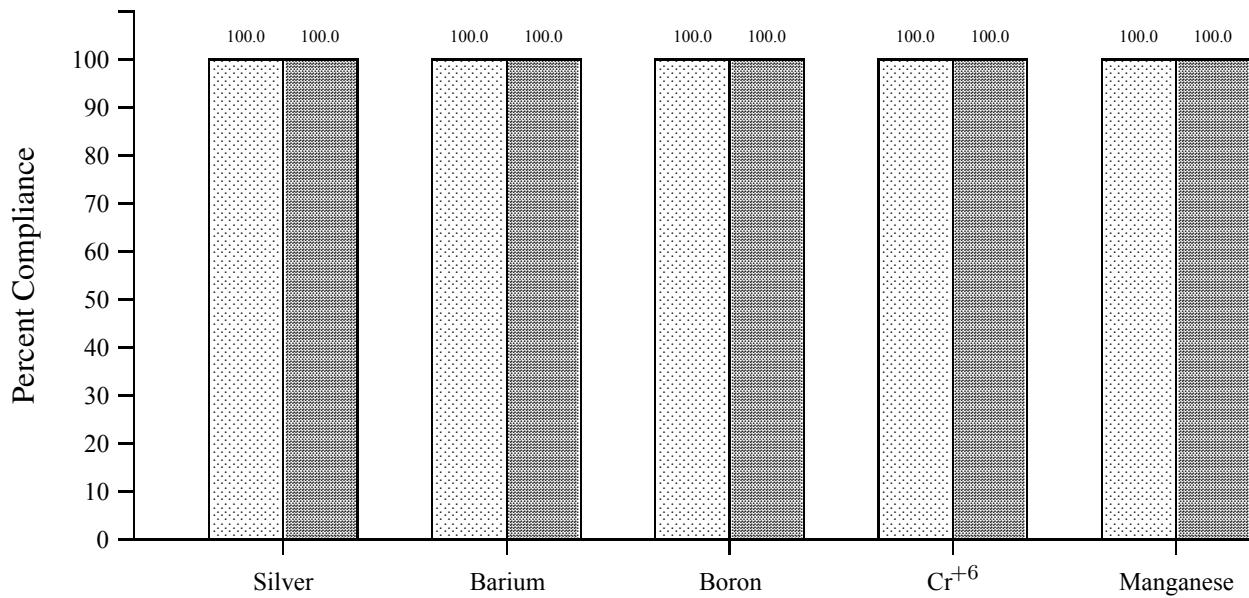
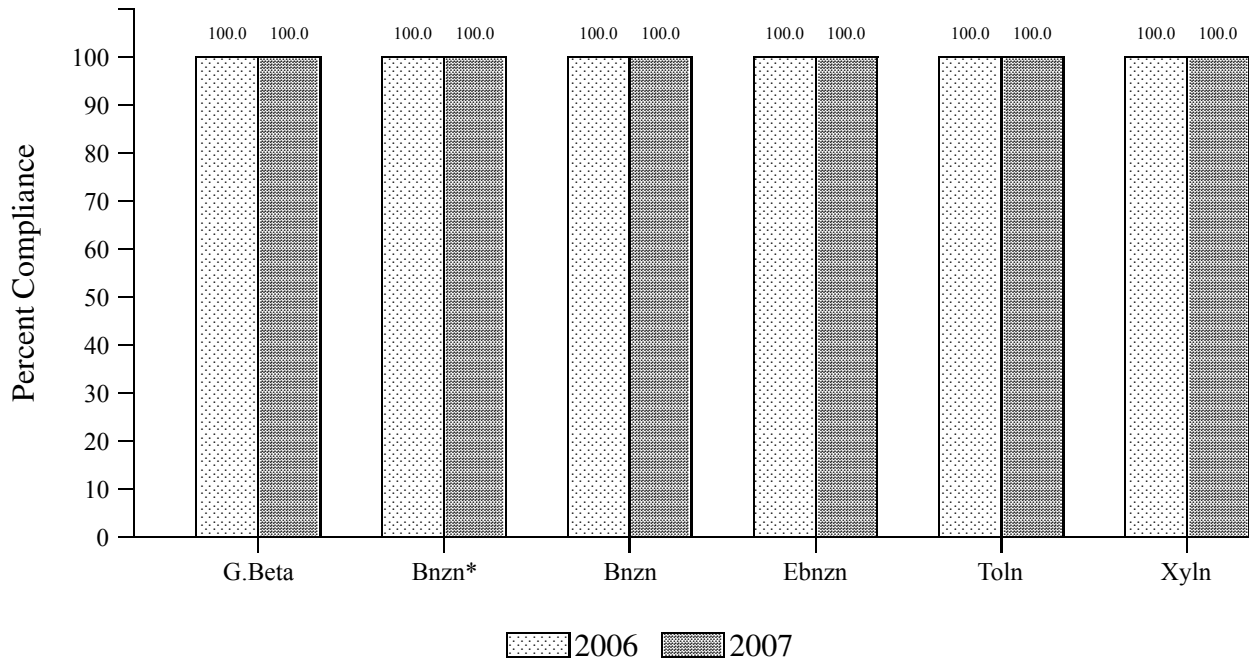
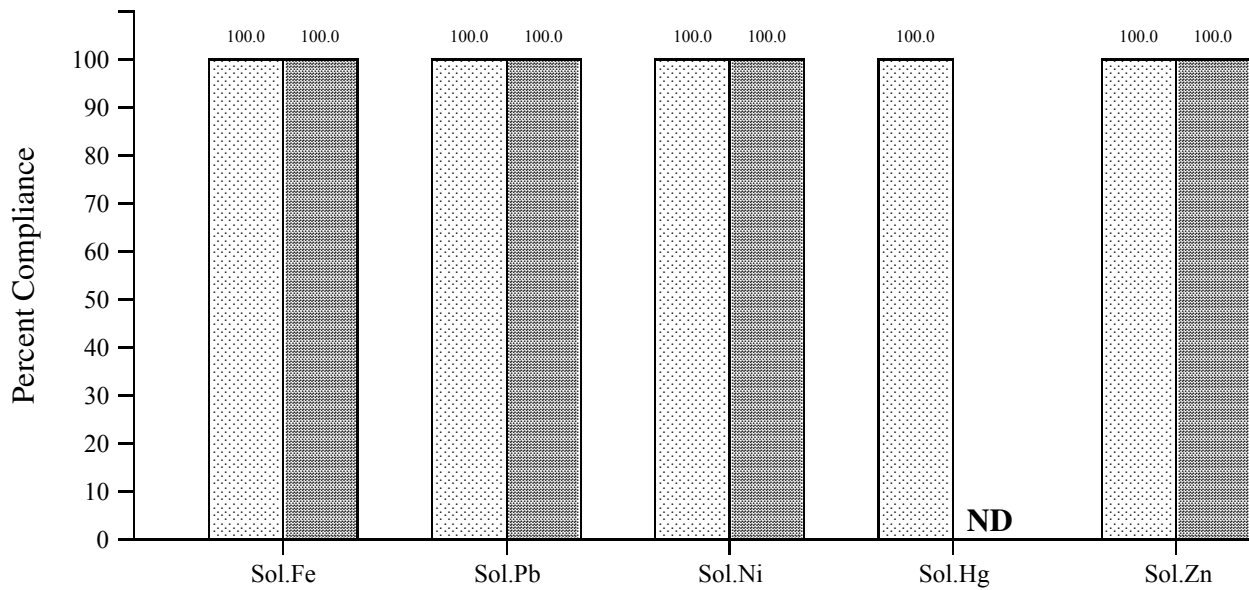
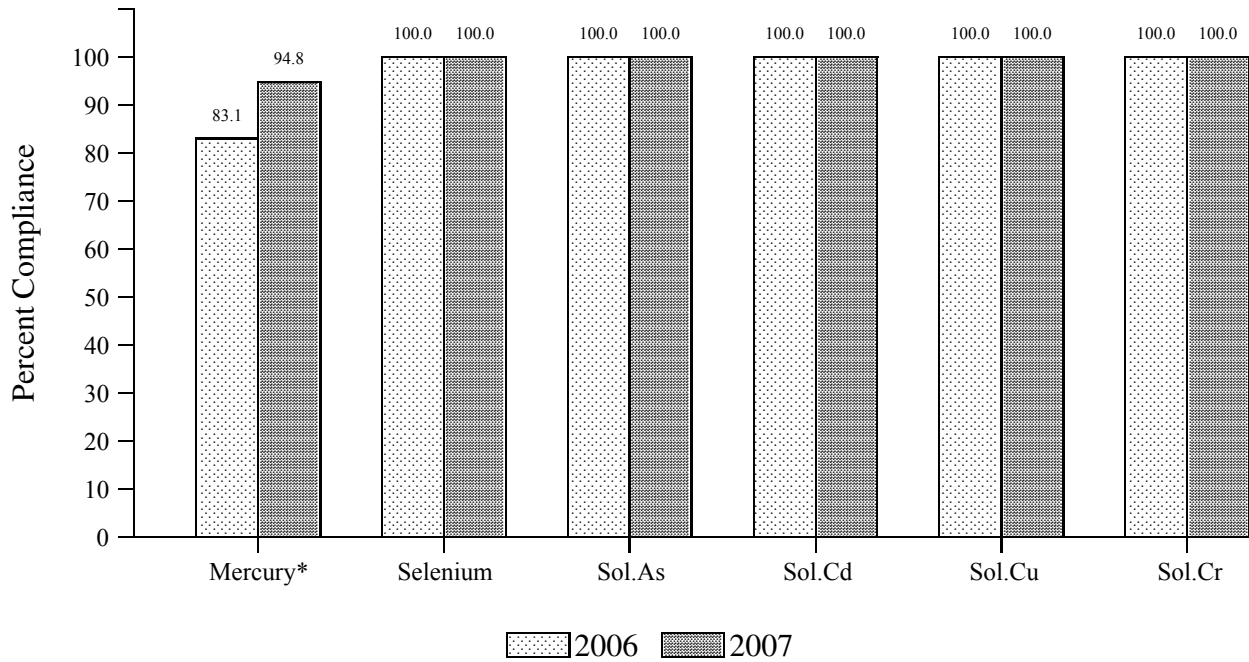


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2006 AND 2007



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

ND = No Data



FIGURE 4: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2006 AND 2007

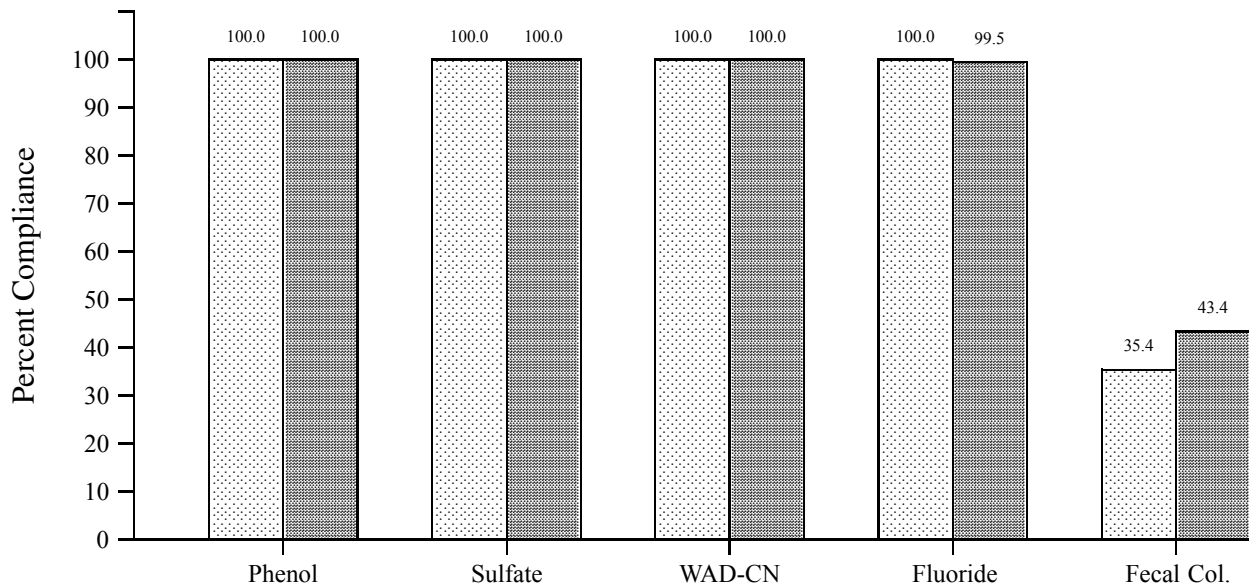
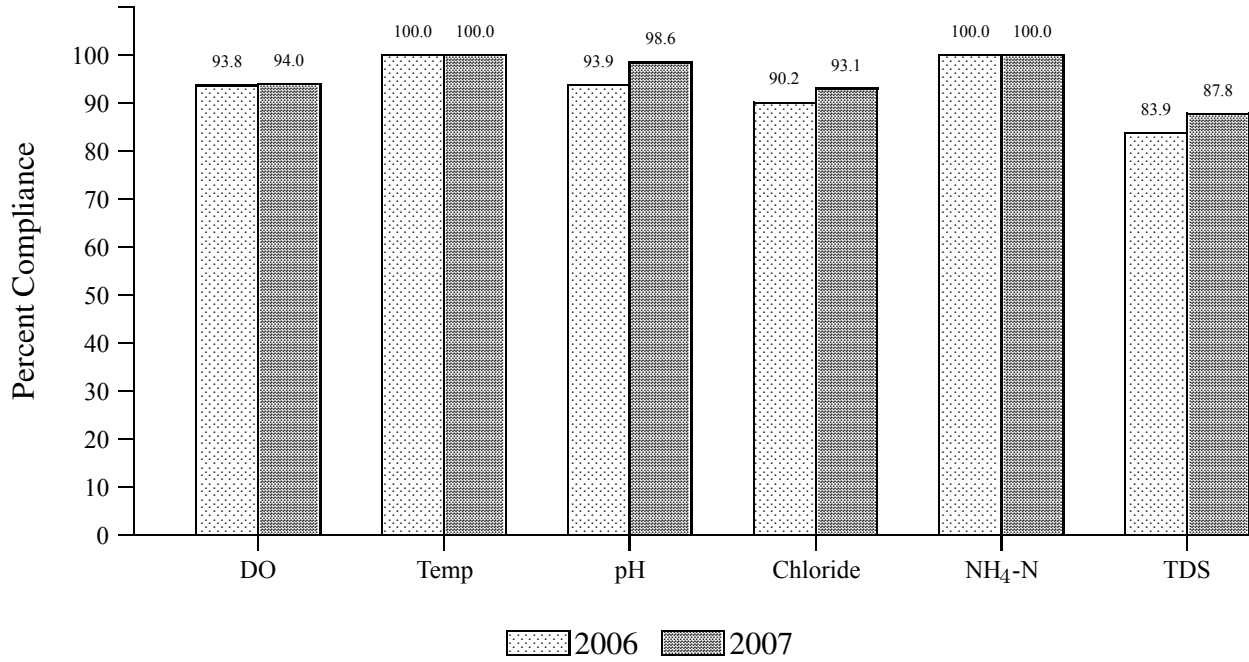


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2006 AND 2007

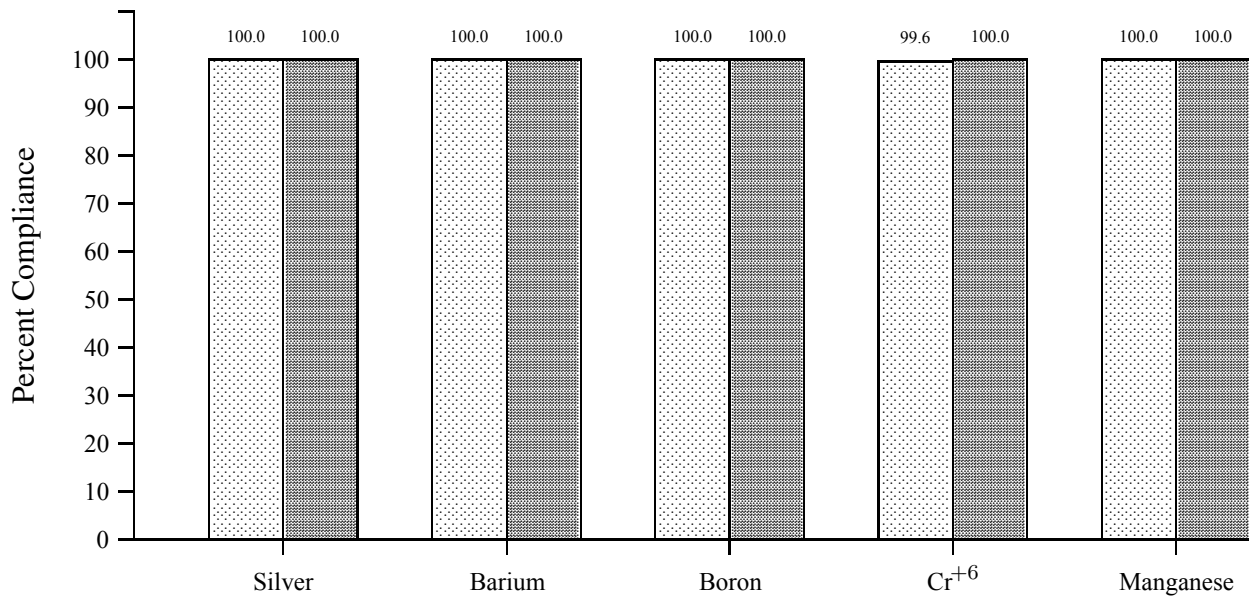
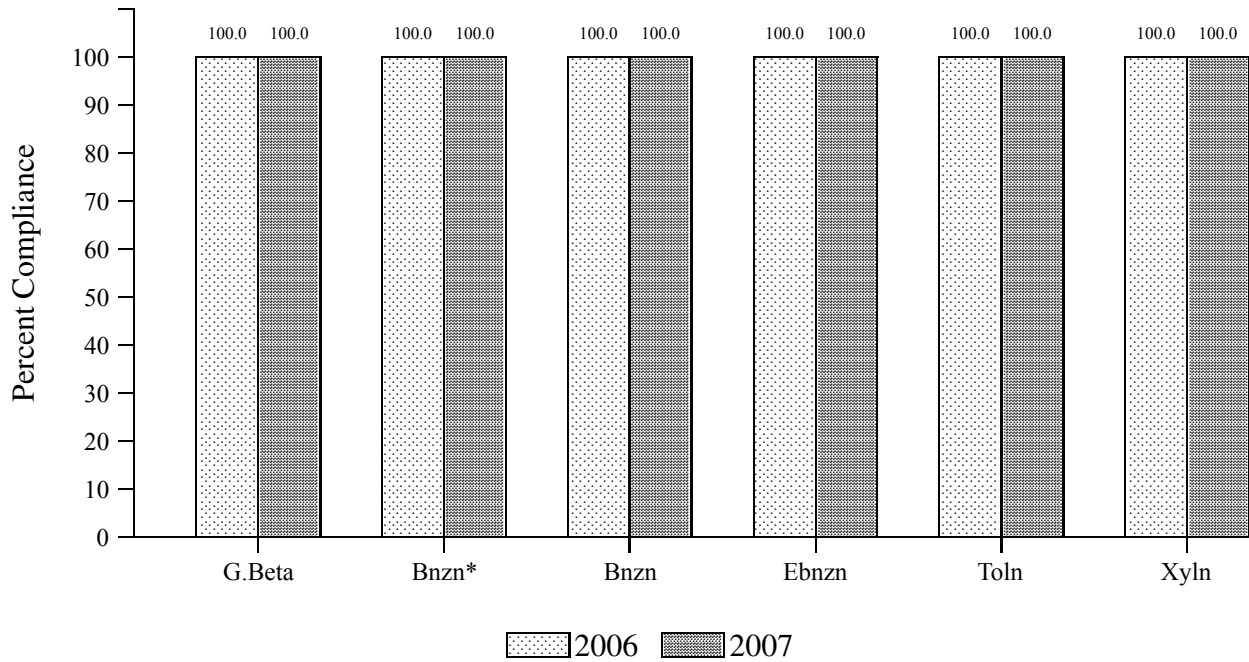
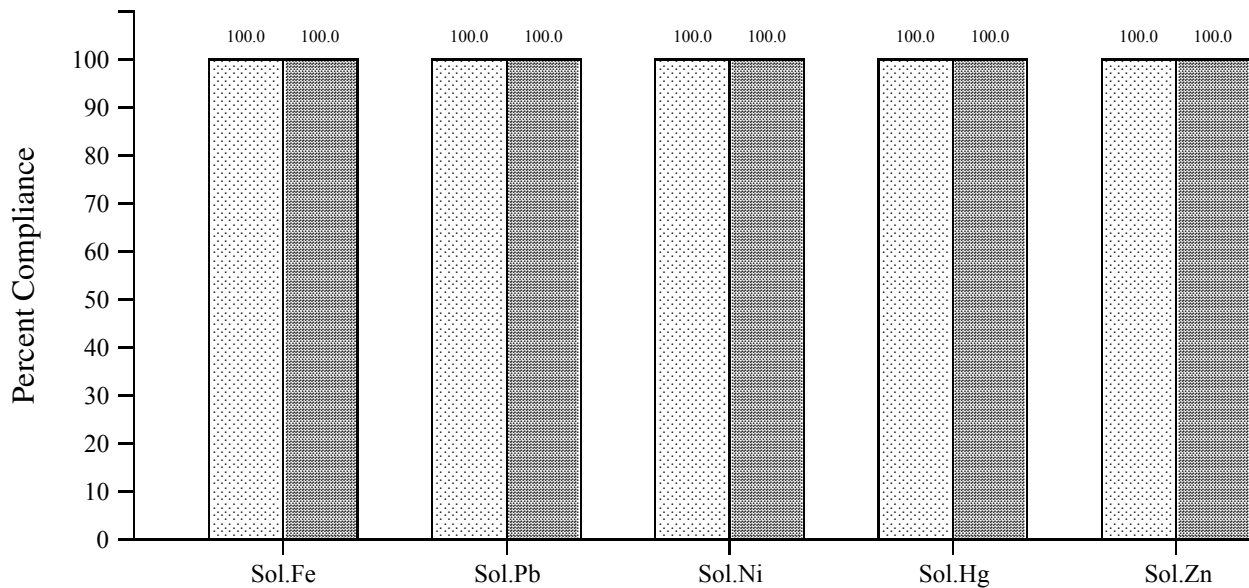
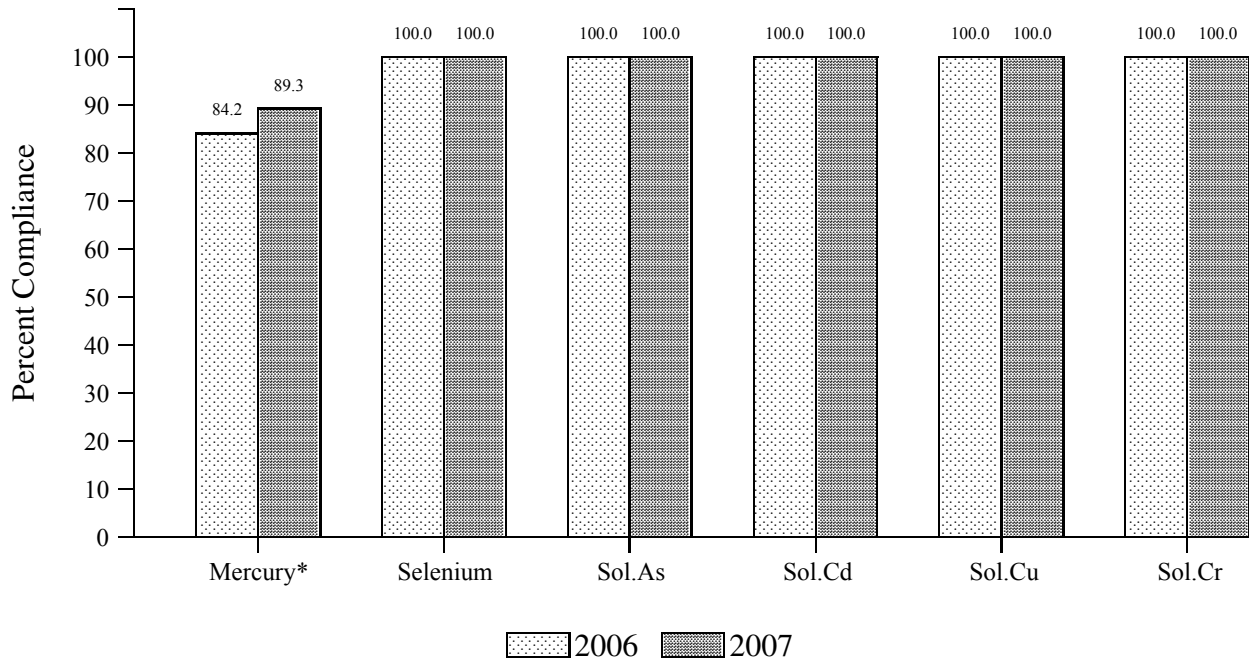


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2006 AND 2007



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

## 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 2007 and the annual frequencies of sampling are shown in [Table 9](#). Also, [Tables AII-2](#) through [AII-46](#) 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 2007.

### River System Compliance Data

In Secondary Contact Waters sampled during 2007, 23 parameters were subject to IPCB Water Quality Standards. They were dissolved oxygen; 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 2007 in both the Chicago and Calumet River Systems. Seventeen water quality parameters were in complete compliance in both of these river systems. They were temperature; pH; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total nickel; total manganese; total mercury; total zinc; and total selenium.

The six water quality parameters which were not in complete compliance in both of the river systems are listed below with observed compliance rates.

Parameters	Percent Compliance	
	Chicago	Calumet
Dissolved Oxygen	95.7	93.9
Un-ionized Ammonia	100.0	98.5
Total Dissolved Solids	95.3	100.0
Total Iron	99.5	96.7
Total Lead	100.0	98.5
Soluble Iron	100.0	97.0

TABLE 9: LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF SECONDARY CONTACT WATERS IN 2007

Map No. <sup>1</sup>	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
36	Touhy Avenue, North Shore Channel	12
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	11
39	Madison Street, South Branch Chicago River	11
108	Loomis Street, South Branch Chicago River	12
99	Archer Avenue, South Fork South Branch Chicago River	11
40	Damen Avenue, Chicago Sanitary & Ship Canal	12
75	Cicero Avenue, Chicago Sanitary & Ship Canal	12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	12
42	Route 83, Chicago Sanitary & Ship Canal	11
48	Stephen Street, Chicago Sanitary & Ship Canal	11
92	Lockport Forebay, Chicago Sanitary & Ship Canal	51
		<u>202</u>
<u>Calumet River System</u>		
86	Burnham Avenue, Grand Calumet River	10
56	Indiana Avenue, Little Calumet River	9
76	Halsted Street, Little Calumet River	11
58	Ashland Avenue, Calumet Sag Channel	11
59	Cicero Avenue, Calumet Sag Channel	11
43	Route 83, Calumet Sag Channel	11
		<u>63</u>

<sup>1</sup>Refer to Figure 1.

**Chicago River System.** In addition to the 17 parameters listed above, un-ionized ammonia, total lead, and soluble iron were also in total compliance. Violations of the Secondary Contact Standards for the remaining three parameters (dissolved oxygen, total dissolved solids, and total iron) occurred in at least one of the locations sampled. The compliance rates of these three parameters ranged from 95.3 to 99.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 10.

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates except for total dissolved solids. In the Chicago River System, the compliance rate for total dissolved solids significantly decreased from total compliance in 2006 to 95.3 percent in 2007.

**Calumet River System.** In addition to the 17 parameters listed above, total dissolved solids was also in total compliance. Violations of the Secondary Contact Standards for the remaining five parameters (dissolved oxygen, un-ionized ammonia, total iron, total lead, and soluble iron) occurred in at least one of the locations sampled.

The compliance rates of these five parameters ranged from 93.9 to 98.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 11.

A comparison of 2007 data with 2006 data indicated that there was no significant difference between 2007 and 2006 compliance rates for any parameter in this river system.

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.

TABLE 10: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF  
SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF  
THE CHICAGO RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
DO	37	1	Jul
	99	1	Sep
	40	1	Aug
	75	1	Aug
	48	1	May
	92	4	May(2), and Jul(2)
		<b>9</b>	Total violation of <b>Dissolved Oxygen (DO)</b>
TDS	101	2	Feb, and Dec
	37	2	Feb, and Dec
	46	1	Dec
	40	1	Dec
	75	1	Dec
	41	1	Dec
		<b>8</b>	Total violation of <b>Total Dissolved Solids (TDS)</b>
Fe	48	1	Aug
		<b>1</b>	Total violation of <b>Total Iron (Fe)</b>

<sup>1</sup>Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

TABLE 11: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF  
SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF  
THE CALUMET RIVER SYSTEM IN 2007

Parameter	Location No.	Total Violations	Months (No. of Viol) <sup>1</sup>
DO	86	$\frac{4}{4}$	May, Jun, Aug, and Oct Total violation of <b>Dissolved Oxygen (DO)</b>
NH <sub>3</sub> -N	86	$\frac{1}{1}$	Oct Total violation of <b>Un-ionized Ammonia (NH<sub>3</sub>-N)</b>
Fe	86	$\frac{2}{2}$	Aug, and Nov Total violation of <b>Total Iron (Fe)</b>
Pb	76	$\frac{1}{1}$	Sep Total violation of <b>Total Lead (Pb)</b>
Sol. Fe	86 43	$\frac{1}{1}$ $\frac{1}{2}$	Aug Aug Total violation of <b>Soluble Iron (Sol. Fe)</b>

<sup>1</sup>Number of violations in each month is 1 unless otherwise indicated in the paranthesis.



FIGURE 5: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2006 AND 2007

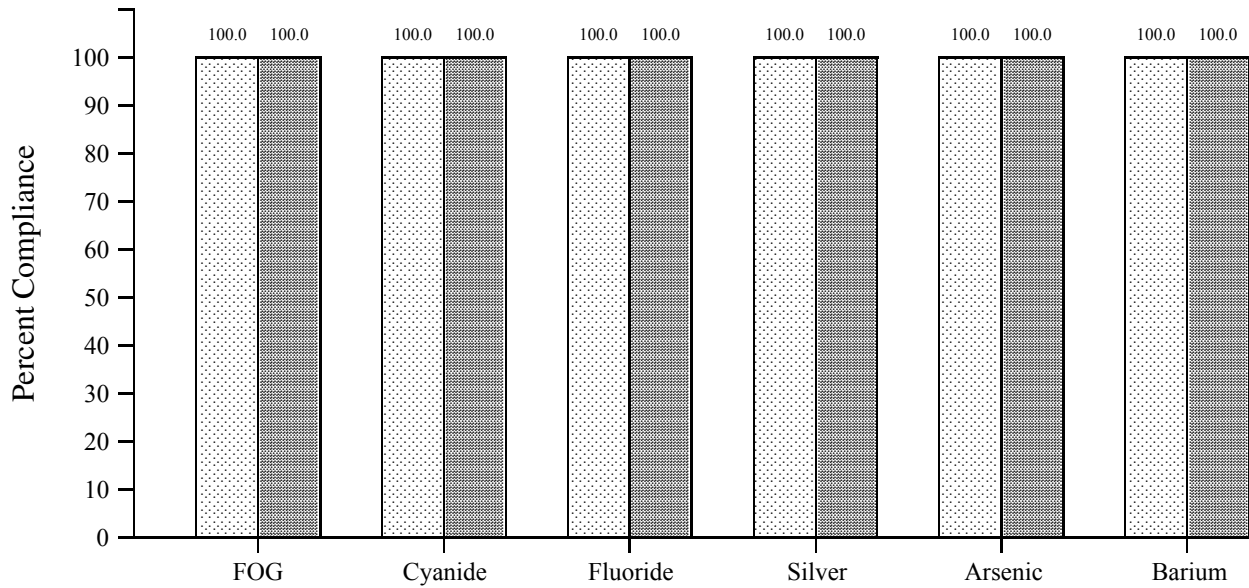
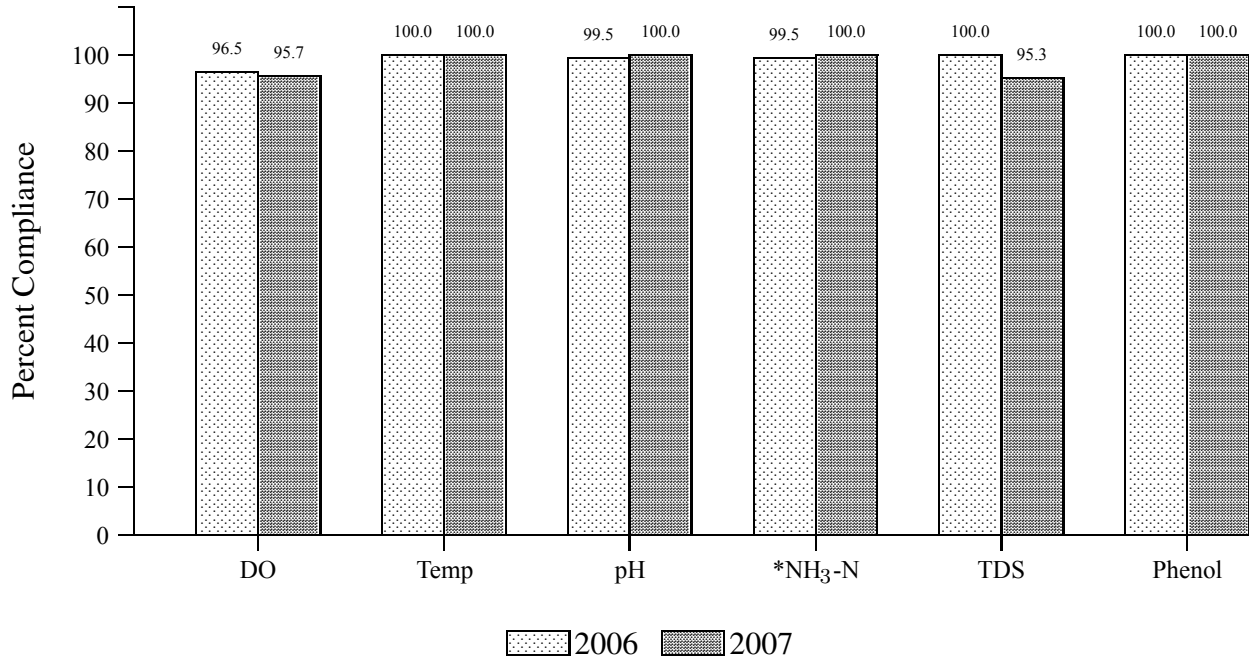
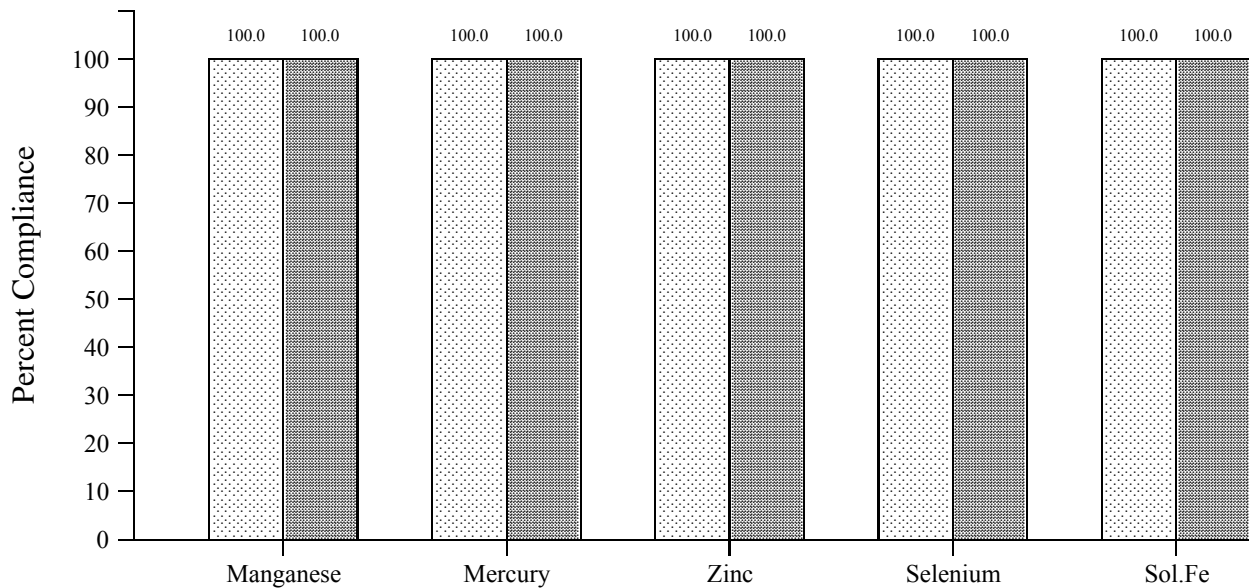
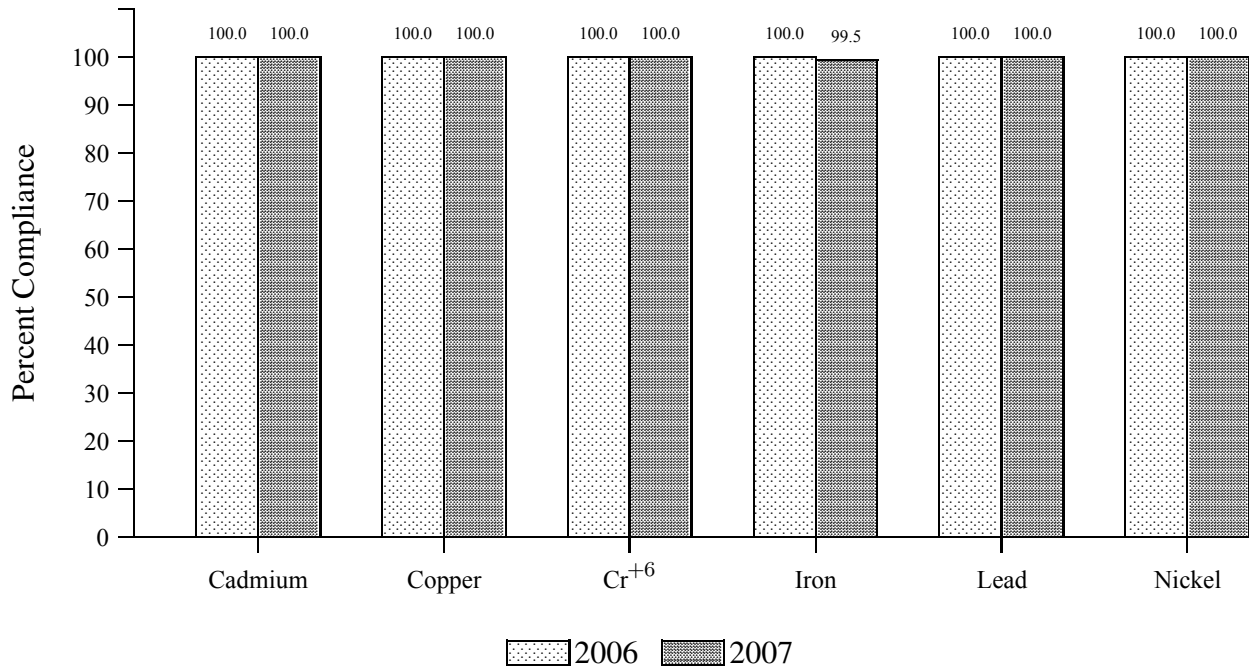


FIGURE 5 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2006 AND 2007



\*NH<sub>3</sub>-N = Un-ionized Ammonia

FIGURE 6: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2006 AND 2007

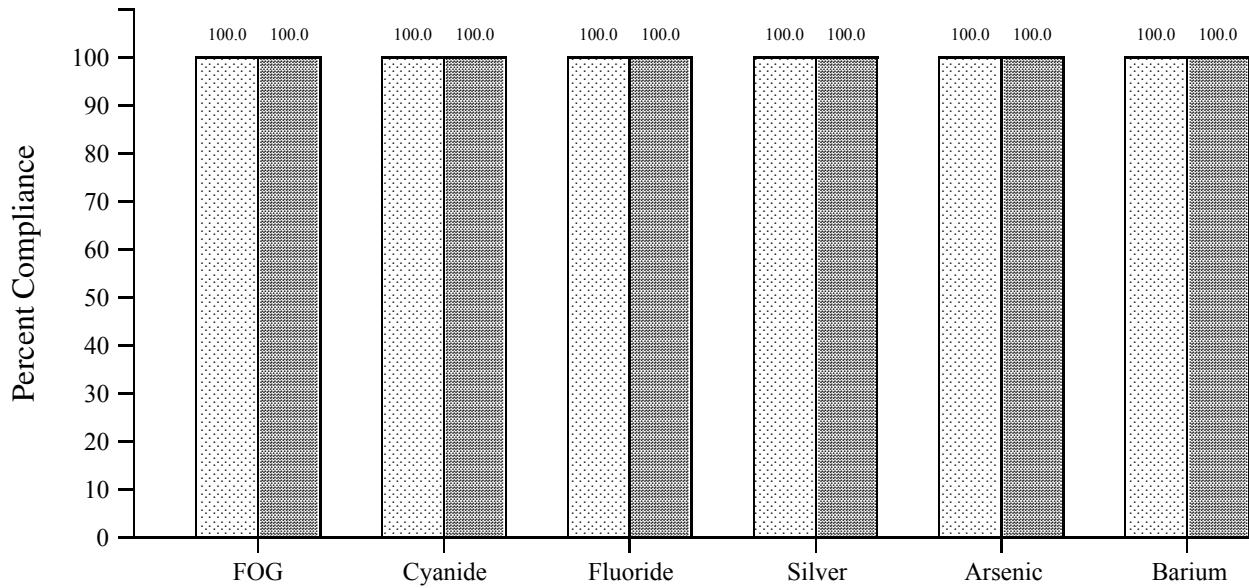
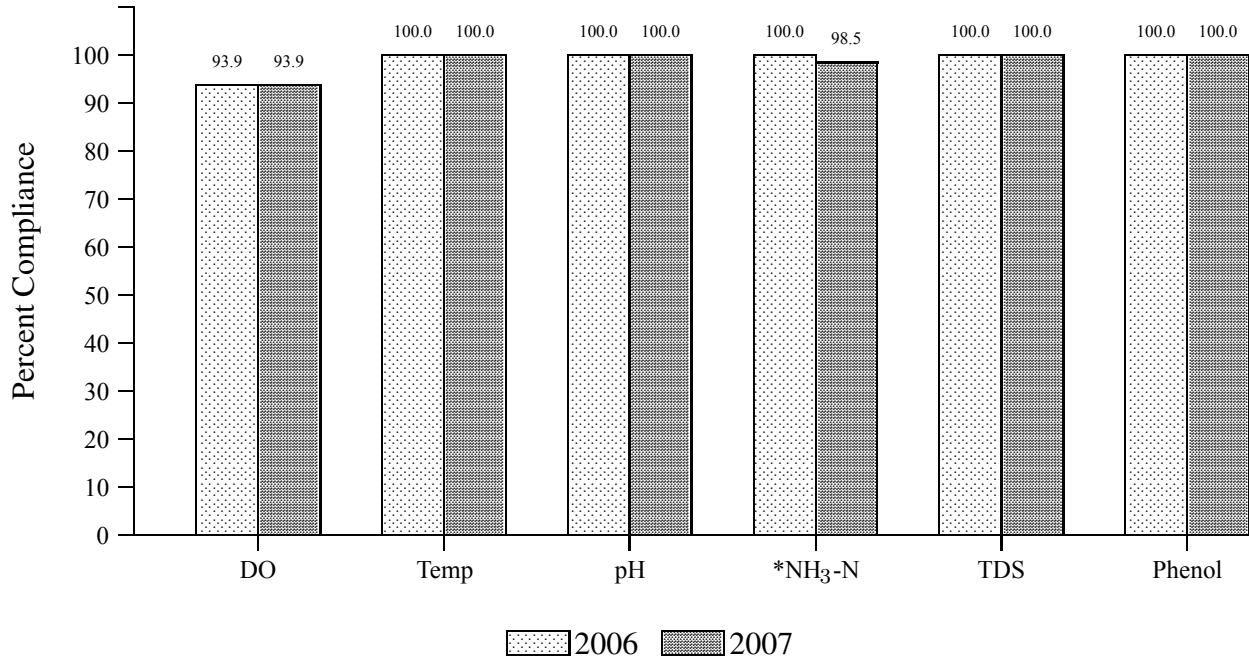
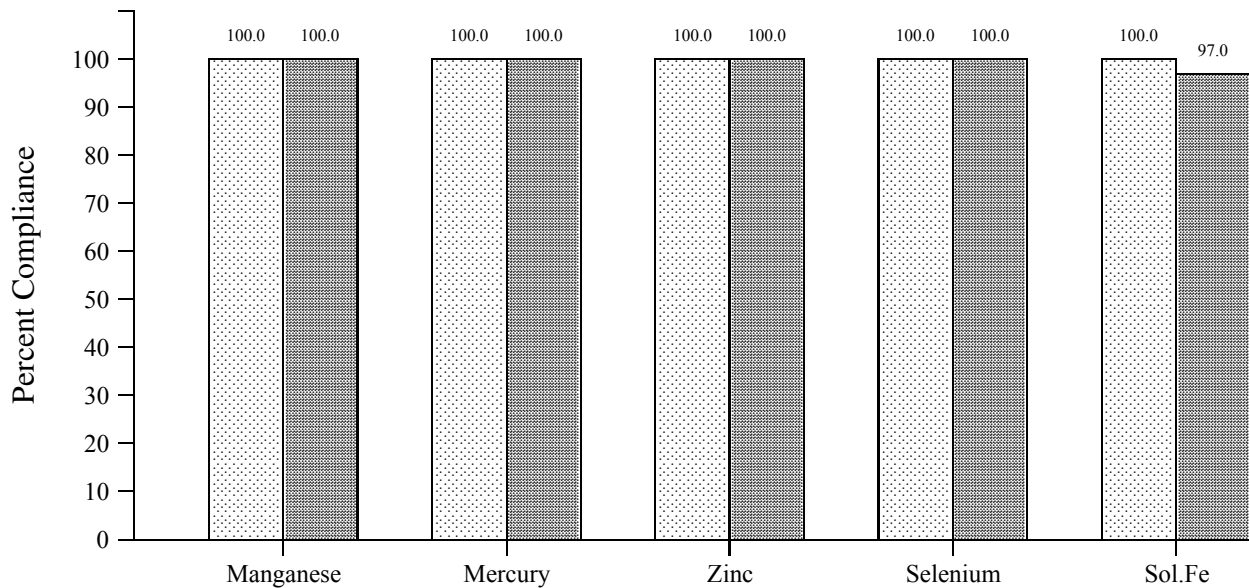
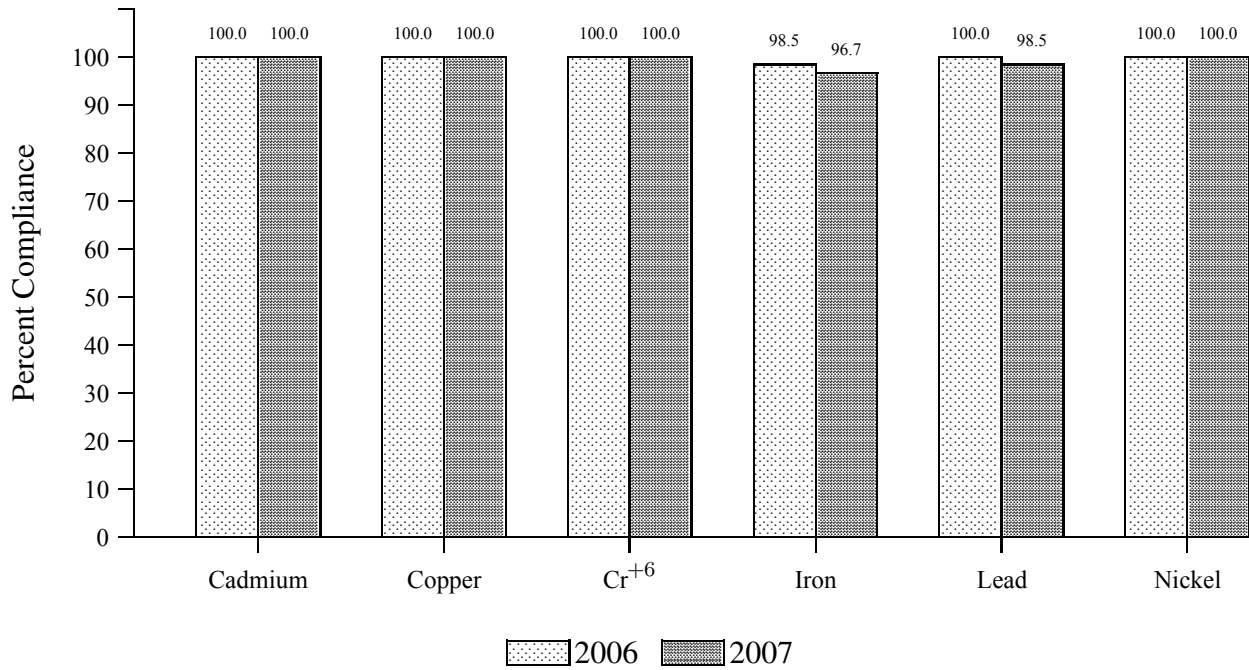


FIGURE 6 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2006 AND 2007



\*NH<sub>3</sub>-N = Un-ionized Ammonia

## **COMPLIANCE WITH RECEIVING WATER QUALITY STANDARDS UPSTREAM AND DOWNSTREAM OF DISTRICT 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 WRPs) for six of these WRPs were sampled during 2007. 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 2007, 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 12.

The outfalls for Hanover Park, John E. Egan, and James C. Kirie WRPs are located in the West Branch of the Du Page 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, at 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 the 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 the outfall and Harlem Avenue is 9,200 feet below.
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 the outfall, and Halsted Street is 6,600 feet below.

TABLE 12: ANNUAL SAMPLING FREQUENCIES AT  
UPSTREAM AND DOWNSTREAM LOCATIONS OF DISTRICT  
WATER RECLAMATION PLANTS IN 2007<sup>1</sup>

WRP	Upstream Sample			Downstream Sample		
	Location	No. <sup>1</sup>	Freq.	Location	No. <sup>1</sup>	Freq.
North Side	Central Street, North Shore Channel	35	9	Touhy Avenue, North Shore Channel	36	12
Stickney	Cicero Avenue, Chicago Sanitary & Ship Canal	75	12	Harlem Avenue, Chicago Sanitary & Ship Canal	41	12
Calumet	Indiana Avenue, Little Calumet River	56	9	Halsted Street, Little Calumet River	76	11
John E. Egan	Higgins Road, Salt Creek	79	10	Arlington Heights Road , Salt Creek	80	12
James C. Kirie	Elmhurst Road, Higgins Creek	77	5	Wille Road, Higgins Creek	78	12
Hanover Park	Longmeadow Lane, West Branch DuPage River*	63	0	Walnut Lane, West Branch DuPage River	89	12

<sup>1</sup>Location 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 District 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 13 through 17. 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 2007. Comparison of the mean concentrations of the common parameters (Max 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 13 through 17. 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 13: COMPARISON OF LEVELS OF 59 WATER QUALITY  
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)  
LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Dissolved Oxygen	DO (mg/L)	8.2		7.7	0.260
Temperature	Temp (°C)	15		17	0.593
pH	pH	7.8		7.4	0.000
Alkalinity (Total)	Alk (mg/L)	121		142	0.032
Chloride	Cl (mg/L)	51		212	0.023
Turbidity	Turb (NTU)	5.1		4.2	0.428
Total Kjeldahl Nitrogen	TKN (mg/L)	0.58		2.07	0.000
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.17		0.84	0.001
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.002		0.007	0.002
Organic Nitrogen	ORG-N (mg/L)	0.41		1.24	0.000
Nitrite Plus Nitrate Nitrogen	NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.31		6.53	0.000
Total Solids	TS (mg/L)	260		646	0.008
Total Suspended Solids	TSS (mg/L)	5.3		5.0	0.903
Volatile Suspended Solids	VSS (mg/L)	2.0		2.6	0.620
Total Dissolved Solids	TDS (mg/L)	254		641	0.008
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO <sub>4</sub> (mg/L)	30		49	0.005
Total Phosphorus	TP (mg/L)	0.06		1.39	0.000
WAD Cyanide	WAD-CN (mg/L)	<0.0004		0.0012	0.000
Fluoride	F (mg/L)	0.20		0.76	0.000
Total Organic Carbon	TOC (mg/L)	1.8		4.0	0.000
Fecal Coliform *	FC (cfu/100mL)	66		8875	0.000
Escherichia Coli *	EColi (cfu/100mL)	44		8540	0.001
Total Calcium	Ca (mg/L)	39		56	0.001
Total Magnesium	Mg (mg/L)	13		19	0.002
Hardness	Hard (mg/L)	153		220	0.002



TABLE 13 (Continued): COMPARISON OF LEVELS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Gross Alpha Radioactivity	G. Alpha (pCi/L)	3.9		5.3	0.098
Gross Beta Radioactivity	G. Beta (pCi/L)	4.9		7.7	0.002
Chlorophyll <i>a</i>	Chlrphl ( $\mu$ g/L)	6.2		1.3	0.085
Benzene	Bnzn ( $\mu$ g/L)	<2		<2	-
Ethylbenzene	Ebnzn ( $\mu$ g/L)	<2		<2	-
Toluene	Toln ( $\mu$ g/L)	<2		<2	-
Xylene	Xyln ( $\mu$ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0006		<0.0006	-
Total Arsenic	As (mg/L)	<0.02		<0.02	-
Total Barium	Ba (mg/L)	0.023		0.024	0.729
Total Boron	B (mg/L)	0.036		0.185	0.000
Total Cadmium	Cd (mg/L)	<0.002		<0.002	-
Total Copper	Cu (mg/L)	<0.002		0.002	0.005
Total Chromium	Cr (mg/L)	0.001		0.001	0.318
Total Hexavalent Chromium	Cr <sup>+6</sup> ( $\mu$ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.209		0.158	0.124
Total Lead	Pb (mg/L)	<0.003		0.004	0.259
Total Manganese	Mn (mg/L)	0.015		0.019	0.308
Total Mercury	Hg ( $\mu$ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.010		0.038	0.000
Total Selenium	Se (mg/L)	<0.02		<0.02	-
Soluble Calcium	Sol. Ca (mg/L)	38.6		53.7	0.009
Soluble Magnesium	Sol. Mg (mg/L)	13.3		19.2	0.010
Soluble Silver	Sol. Ag (mg/L)	<0.0003		<0.0003	-
Soluble Arsenic	Sol. As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol. Ba (mg/L)	0.022		0.022	0.957

TABLE 13 (Continued): COMPARISON OF LEVELS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Soluble Boron	Sol. B (mg/L)	0.035		0.186	0.000
Soluble Chromium	Sol. Cr (mg/L)	0.001		0.001	0.479
Soluble Iron	Sol. Fe (mg/L)	0.015		0.028	0.013
Soluble Lead	Sol. Pb (mg/L)	0.001		0.002	0.193
Soluble Nickel	Sol. Ni (mg/L)	<0.002		<0.002	-
Soluble Manganese	Sol. Mn (mg/L)	0.009		0.013	0.079
Soluble Zinc	Sol. Zn (mg/L)	0.010		0.037	0.000

<sup>1</sup>Eight out of 67 parameters are not included because they were not analyzed.

<sup>2</sup>Value following < sign is the detection limit.

<sup>3</sup>Significance Probability  $\leq 0.05$  indicates that upstream and downstream population means are not equal.

<sup>4</sup>Some 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 deviation is zero.

TABLE 14: COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Dissolved Oxygen	DO (mg/L)	6.2		6.6	0.543
Temperature	Temp (°C)	20		16	0.190
pH	pH	7.3		7.3	0.729
Alkalinity (Total)	Alk (mg/L)	137		131	0.540
Chloride	Cl (mg/L)	228		267	0.737
Turbidity	Turb (NTU)	8.6		6.0	0.073
Total Kjeldahl Nitrogen	TKN (mg/L)	1.5		1.7	0.377
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.59		0.56	0.830
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.006		0.004	0.309
Organic Nitrogen	ORG-N (mg/L)	0.88		1.19	0.125
Nitrite Plus Nitrate Nitrogen	NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	4.5		7.1	0.010
Total Solids	TS (mg/L)	647		764	0.581
Total Suspended Solids	TSS (mg/L)	17		15	0.690
Volatile Suspended Solids	VSS (mg/L)	4.1		3.7	0.577
Total Dissolved Solids	TDS (mg/L)	630		749	0.578
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO <sub>4</sub> (mg/L)	48		67	0.005
Total Phosphorus	TP (mg/L)	0.76		1.01	0.209
Total Cyanide	CN (mg/L)	<0.003		0.004	0.003
WAD Cyanide	WAD-CN (mg/L)	0.0010		0.0013	0.399
Fluoride	F (mg/L)	0.50		0.63	0.009
Total Organic Carbon	TOC (mg/L)	3.2		3.8	0.091
Fecal Coliform *	FC (cfu/100mL)	347		4908	0.003
Escherichia Coli *	EColi (cfu/100mL)	932		5416	0.511
Total Calcium	Ca (mg/L)	53		56	0.527
Total Magnesium	Mg (mg/L)	19		20	0.608

TABLE 14 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Hardness	Hard (mg/L)	211		222	0.551
Gross Alpha Radioactivity	G. Alpha (pCi/L)	5.4		6.1	0.645
Gross Beta Radioactivity	G. Beta (pCi/L)	7.4		9.4	0.122
Chlorophyll <i>a</i>	Chlrphl ( $\mu$ g/L)	5.4		2.6	0.045
Benzene	Bnzn ( $\mu$ g/L)	<2		<2	-
Ethylbenzene	Ebnzn ( $\mu$ g/L)	<2		<2	-
Toluene	Toln ( $\mu$ g/L)	<2		<2	-
Xylene	Xyln ( $\mu$ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0006		<0.0006	-
Total Arsenic	As (mg/L)	<0.02		<0.02	-
Total Barium	Ba (mg/L)	0.027		0.024	0.227
Total Boron	B (mg/L)	0.117		0.168	0.003
Total Cadmium	Cd (mg/L)	<0.002		<0.002	-
Total Copper	Cu (mg/L)	0.005		0.003	0.209
Total Chromium	Cr (mg/L)	0.003		0.003	0.844
Total Hexavalent Chromium	Cr <sup>+6</sup> ( $\mu$ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.509		0.418	0.324
Total Lead	Pb (mg/L)	0.010		0.008	0.410
Total Nickel	Ni (mg/L)	0.003		0.004	0.002
Total Manganese	Mn (mg/L)	0.034		0.031	0.672
Total Mercury	Hg ( $\mu$ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.046		0.046	0.983
Total Selenium	Se (mg/L)	<0.02		<0.02	-
Soluble Calcium	Sol. Ca (mg/L)	50.9		53.0	0.650
Soluble Magnesium	Sol. Mg (mg/L)	18.4		19.0	0.721
Soluble Silver	Sol. Ag (mg/L)	<0.0003		<0.0003	-

TABLE 14 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Soluble Arsenic	Sol. As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol. Ba (mg/L)	0.022		0.019	0.265
Soluble Boron	Sol. B (mg/L)	0.119		0.168	0.001
Soluble Cadmium	Sol. Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol. Cr (mg/L)	0.001		0.001	0.410
Soluble Iron	Sol. Fe (mg/L)	0.020		0.027	0.059
Soluble Lead	Sol. Pb (mg/L)	0.002		0.001	0.586
Soluble Nickel	Sol. Ni (mg/L)	0.002		0.003	0.004
Soluble Manganese	Sol. Mn (mg/L)	0.020		0.018	0.653
Soluble Zinc	Sol. Zn (mg/L)	0.029		0.030	0.675
Soluble Selenium	Sol. Se (mg/L)	<0.002		<0.002	-

<sup>1</sup>Four out of 67 parameters are not included because they were not analyzed.

<sup>2</sup>Value following < sign is the detection limit.

<sup>3</sup>Significance Probability  $\leq 0.05$  indicates that upstream and downstream population means are not equal.

<sup>4</sup>Some 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 deviation is zero.

TABLE 15: COMPARISON OF LEVELS OF 64 WATER QUALITY  
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)  
LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Dissolved Oxygen	DO (mg/L)	7.5		6.4	0.154
Temperature	Temp (°C)	19		17	0.678
pH	pH	7.6		7.4	0.025
Alkalinity (Total)	Alk (mg/L)	137		162	0.126
Chloride	Cl (mg/L)	109		181	0.233
Turbidity	Turb (NTU)	20		8	0.003
Total Kjeldahl Nitrogen	TKN (mg/L)	1.1		1.3	0.336
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.31		0.29	0.905
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.005		0.003	0.227
Organic Nitrogen	ORG-N (mg/L)	0.83		1.04	0.214
Nitrite Plus Nitrate Nitrogen	NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	1.4		5.2	0.000
Total Solids	TS (mg/L)	478		648	0.154
Total Suspended Solids	TSS (mg/L)	22		11	0.015
Volatile Suspended Solids	VSS (mg/L)	3.6		2.3	0.288
Total Dissolved Solids	TDS (mg/L)	457		637	0.135
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO <sub>4</sub> (mg/L)	90		88	0.897
Fats, Oils, and Greases	FOG (mg/L)	<3		<3	-
Total Phosphorus	TP (mg/L)	0.19		1.04	0.000
Total Cyanide	CN (mg/L)	<0.003		<0.003	-
WAD Cyanide	WAD-CN (mg/L)	0.0008		0.0012	0.141
Fluoride	F (mg/L)	0.35		0.53	0.004
Total Organic Carbon	TOC (mg/L)	3.5		4.2	0.218
Fecal Coliform *	FC (cfu/100mL)	49		3259	0.000
Escherichia Coli *	EColi (cfu/100mL)	29		1929	0.011
Total Calcium	Ca (mg/L)	55		66	0.112

TABLE 15 (Continued): COMPARISON OF LEVELS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Total Magnesium	Mg (mg/L)	20		23	0.293
Hardness	Hard (mg/L)	219		259	0.166
Gross Alpha Radioactivity	G. Alpha (pCi/L)	5.1		5.3	0.669
Gross Beta Radioactivity	G. Beta (pCi/L)	7.8		8.7	0.461
Chlorophyll <i>a</i>	Chlrphl ( $\mu$ g/L)	14		7	0.168
Benzene	Bnzn ( $\mu$ g/L)	<2		<2	-
Ethylbenzene	Ebnzn ( $\mu$ g/L)	<2		<2	-
Toluene	Toln ( $\mu$ g/L)	<2		<2	-
Xylene	Xyln ( $\mu$ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0006		<0.0006	-
Total Arsenic	As (mg/L)	<0.02		<0.02	-
Total Barium	Ba (mg/L)	0.033		0.024	0.002
Total Boron	B (mg/L)	0.165		0.194	0.458
Total Cadmium	Cd (mg/L)	<0.002		<0.002	-
Total Copper	Cu (mg/L)	0.005		<0.002	0.054
Total Chromium	Cr (mg/L)	0.003		0.002	0.530
Total Hexavalent Chromium	Cr <sup>+6</sup> ( $\mu$ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.701		0.390	0.011
Total Lead	Pb (mg/L)	0.027		0.042	0.159
Total Nickel	Ni (mg/L)	0.004		0.003	0.130
Total Manganese	Mn (mg/L)	0.046		0.078	0.435
Total Mercury	Hg ( $\mu$ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.033		0.053	0.151
Total Selenium	Se (mg/L)	<0.02		<0.02	-
Soluble Calcium	Sol. Ca (mg/L)	51.5		63.3	0.128
Soluble Magnesium	Sol. Mg (mg/L)	19.1		22.3	0.293

TABLE 15 (Continued): COMPARISON OF LEVELS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Soluble Silver	Sol. Ag (mg/L)	<0.0003		<0.0003	-
Soluble Arsenic	Sol. As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol. Ba (mg/L)	0.029		0.021	0.006
Soluble Boron	Sol. B (mg/L)	0.167		0.195	0.490
Soluble Cadmium	Sol. Cd (mg/L)	<0.0003		0.001	0.352
Soluble Chromium	Sol. Cr (mg/L)	0.001		0.001	0.728
Soluble Iron	Sol. Fe (mg/L)	0.009		0.030	0.004
Soluble Lead	Sol. Pb (mg/L)	0.001		0.001	0.810
Soluble Nickel	Sol. Ni (mg/L)	0.002		0.002	0.621
Soluble Manganese	Sol. Mn (mg/L)	0.019		0.035	0.226
Soluble Zinc	Sol. Zn (mg/L)	0.017		0.030	0.019
Soluble Selenium	Sol. Se (mg/L)	<0.002		<0.002	-

<sup>1</sup>Three out of 67 parameters are not included because they were not analyzed.

<sup>2</sup>Value following < sign is the detection limit.

<sup>3</sup>Significance Probability  $\leq 0.05$  indicates that upstream and downstream population means are not equal.

<sup>4</sup>Some 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 deviation is zero.



TABLE 16: COMPARISON OF LEVELS OF 63 WATER QUALITY  
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)  
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Dissolved Oxygen	DO (mg/L)	7.8		8.8	0.300
Temperature	Temp (°C)	16		15	0.825
pH	pH	7.8		7.6	0.135
Alkalinity (Total)	Alk (mg/L)	159		133	0.136
Chloride	Cl (mg/L)	353		268	0.180
Turbidity	Turb (NTU)	25		9	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.5		1.2	0.100
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.13		0.11	0.607
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.003		0.002	0.334
Organic Nitrogen	ORG-N (mg/L)	1.4		1.1	0.147
Nitrite Plus Nitrate Nitrogen	NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.23		7.10	0.000
Total Solids	TS (mg/L)	974		789	0.199
Total Suspended Solids	TSS (mg/L)	33		10	0.000
Volatile Suspended Solids	VSS (mg/L)	9.7		3.2	0.000
Total Dissolved Solids	TDS (mg/L)	941		779	0.256
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO <sub>4</sub> (mg/L)	62		77	0.209
Total Phosphorus	TP (mg/L)	0.13		0.51	0.127
Total Cyanide	CN (mg/L)	<0.003		<0.003	-
WAD Cyanide	WAD-CN (mg/L)	0.0010		0.0016	0.155
Fluoride	F (mg/L)	0.26		0.56	0.001
Total Organic Carbon	TOC (mg/L)	5.3		4.5	0.022
Fecal Coliform *	FC (cfu/100mL)	250		312	0.805
Escherichia Coli *	EColi (cfu/100mL)	114		221	0.718
Total Calcium	Ca (mg/L)	64		63	0.888
Total Magnesium	Mg (mg/L)	26		24	0.488

TABLE 16 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Hardness	Hard (mg/L)	266		257	0.694
Gross Alpha Radioactivity	G. Alpha (pCi/L)	5.4		5.2	0.718
Gross Beta Radioactivity	G. Beta (pCi/L)	7.5		9.1	0.217
Chlorophyll <i>a</i>	Chlrphl ( $\mu$ g/L)	39		14	0.014
Benzene	Bnzn ( $\mu$ g/L)	<2		<2	-
Ethylbenzene	Ebnzn ( $\mu$ g/L)	<2		<2	-
Toluene	Toln ( $\mu$ g/L)	<2		<2	-
Xylene	Xyln ( $\mu$ g/L)	<2		<2	-
Total Arsenic	As (mg/L)	<0.02		<0.02	-
Total Barium	Ba (mg/L)	0.045		0.027	0.000
Total Boron	B (mg/L)	0.085		0.198	0.003
Total Cadmium	Cd (mg/L)	<0.002		<0.002	-
Total Copper	Cu (mg/L)	0.002		0.002	0.939
Total Chromium	Cr (mg/L)	0.002		0.001	0.001
Total Hexavalent Chromium	Cr <sup>+6</sup> ( $\mu$ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	1.286		0.447	0.000
Total Lead	Pb (mg/L)	0.005		0.003	0.216
Total Nickel	Ni (mg/L)	0.002		0.003	0.187
Total Manganese	Mn (mg/L)	0.110		0.059	0.000
Low Level Mercury	Hg– (ng/L)	1.530		<0.5	0.113
Total Zinc	Zn (mg/L)	0.020		0.036	0.260
Total Selenium	Se (mg/L)	<0.02		<0.02	-
Soluble Calcium	Sol. Ca (mg/L)	61.9		61.6	0.964
Soluble Magnesium	Sol. Mg (mg/L)	26.0		24.3	0.555
Soluble Silver	Sol. Ag (mg/L)	<0.0003		<0.0003	-
Soluble Arsenic	Sol. As (mg/L)	<0.002		<0.002	-

TABLE 16 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Soluble Barium	Sol. Ba (mg/L)	0.040		0.024	0.001
Soluble Boron	Sol. B (mg/L)	0.084		0.196	0.004
Soluble Cadmium	Sol. Cd (mg/L)	<0.0003		<0.0003	-
Soluble Copper	Sol. Cu (mg/L)	<0.002		0.002	0.055
Soluble Chromium	Sol. Cr (mg/L)	0.001		0.001	0.216
Soluble Iron	Sol. Fe (mg/L)	0.041		0.048	0.561
Soluble Lead	Sol. Pb (mg/L)	0.002		0.003	0.541
Soluble Nickel	Sol. Ni (mg/L)	<0.002		0.002	0.090
Soluble Manganese	Sol. Mn (mg/L)	0.033		0.031	0.856
Soluble Zinc	Sol. Zn (mg/L)	0.009		0.023	0.002
Soluble Selenium	Sol. Se (mg/L)	<0.002		<0.002	-

<sup>1</sup>Four out of 67 parameters are not included because they were not analyzed.

<sup>2</sup>Value following < sign is the detection limit.

<sup>3</sup>Significance Probability  $\leq 0.05$  indicates that upstream and downstream population means are not equal.

<sup>4</sup>Some 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 deviation is zero.

TABLE 17: COMPARISON OF LEVELS OF 63 WATER QUALITY  
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)  
LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Dissolved Oxygen	DO (mg/L)	8.7		8.8	0.941
Temperature	Temp (°C)	14		16	0.677
pH	pH	7.8		7.7	0.290
Alkalinity (Total)	Alk (mg/L)	118		175	0.032
Chloride	Cl (mg/L)	259		247	0.865
Turbidity	Turb (NTU)	24		5	0.010
Total Kjeldahl Nitrogen	TKN (mg/L)	0.96		1.60	0.001
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.17		0.35	0.089
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.004		0.006	0.496
Organic Nitrogen	ORG-N (mg/L)	0.79		1.25	0.001
Nitrite Plus Nitrate Nitrogen	NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.40		5.83	0.000
Total Solids	TS (mg/L)	650		786	0.296
Total Suspended Solids	TSS (mg/L)	26		7	0.019
Volatile Suspended Solids	VSS (mg/L)	5.2		3.3	0.248
Total Dissolved Solids	TDS (mg/L)	623		780	0.239
Sulfate	SO <sub>4</sub> (mg/L)	37		91	0.000
Total Phosphorus	TP (mg/L)	0.11		0.81	0.001
WAD Cyanide	WAD-CN (mg/L)	0.0009		0.0017	0.071
Fluoride	F (mg/L)	0.30		0.90	0.001
Total Organic Carbon	TOC (mg/L)	4.7		5.0	0.545
Fecal Coliform *	FC (cfu/100mL)	2370		514	0.167
Escherichia Coli *	EColi (cfu/100mL)	1897		221	0.345
Total Calcium	Ca (mg/L)	44		71	0.006
Total Magnesium	Mg (mg/L)	14		26	0.006
Hardness	Hard (mg/L)	171		283	0.006
Gross Alpha Radioactivity	G. Alpha (pCi/L)	5.2		5.3	0.893

TABLE 17 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Gross Beta Radioactivity	G. Beta (pCi/L)	7.0		11.8	0.000
Chlorophyll <i>a</i>	Chlrphl ( $\mu$ g/L)	15		4	0.101
Benzene	Bzn ( $\mu$ g/L)	<2		<2	-
Ethylbenzene	Ebnzn ( $\mu$ g/L)	<2		<2	-
Toluene	Toln ( $\mu$ g/L)	<2		<2	-
Xylene	Xyln ( $\mu$ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0006		<0.0006	-
Total Arsenic	As (mg/L)	<0.02		<0.02	-
Total Barium	Ba (mg/L)	0.043		0.024	0.009
Total Boron	B (mg/L)	0.089		0.260	0.001
Total Cadmium	Cd (mg/L)	<0.002		<0.002	-
Total Copper	Cu (mg/L)	0.005		<0.002	0.001
Total Chromium	Cr (mg/L)	0.003		0.001	0.143
Total Hexavalent Chromium	Cr <sup>+6</sup> ( $\mu$ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.960		0.177	0.006
Total Lead	Pb (mg/L)	0.009		0.004	0.024
Total Nickel	Ni (mg/L)	0.002		0.007	0.049
Total Manganese	Mn (mg/L)	0.112		0.040	0.045
Total Mercury	Hg ( $\mu$ g/L)	<0.05		<0.05	-
Low Level Mercury	Hg- (ng/L)	2.220		0.683	0.013
Total Zinc	Zn (mg/L)	0.035		0.047	0.062
Total Selenium	Se (mg/L)	<0.02		<0.02	-
Soluble Calcium	Sol. Ca (mg/L)	40.9		68.0	0.007
Soluble Magnesium	Sol. Mg (mg/L)	13.9		25.3	0.007
Soluble Silver	Sol. Ag (mg/L)	<0.0003		<0.0003	-
Soluble Arsenic	Sol. As (mg/L)	<0.002		<0.002	-

TABLE 17 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2007<sup>1</sup>

Parameter	Abbreviation (Units)	U <sup>2</sup>	vs	D <sup>2</sup>	Sig. Prob. <sup>(3,4)</sup>
Soluble Barium	Sol. Ba (mg/L)	0.036		0.022	0.128
Soluble Boron	Sol. B (mg/L)	0.089		0.254	0.001
Soluble Cadmium	Sol. Cd (mg/L)	<0.0003		<0.0003	-
Soluble Copper	Sol. Cu (mg/L)	<0.002		<0.002	-
Soluble Chromium	Sol. Cr (mg/L)	0.001		0.001	0.687
Soluble Iron	Sol. Fe (mg/L)	0.059		0.044	0.026
Soluble Lead	Sol. Pb (mg/L)	0.002		0.001	0.655
Soluble Nickel	Sol. Ni (mg/L)	<0.002		0.006	0.002
Soluble Manganese	Sol. Mn (mg/L)	0.067		0.028	0.195
Soluble Zinc	Sol. Zn (mg/L)	0.011		0.040	0.000
Soluble Selenium	Sol. Se (mg/L)	<0.002		<0.002	-

<sup>1</sup>Four out of 67 parameters are not included because they were not analyzed.

<sup>2</sup>Value following < sign is the detection limit.

<sup>3</sup>Significance Probability  $\leq 0.05$  indicates that upstream and downstream population means are not equal.

<sup>4</sup>Some 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 deviation is zero.

A study of the concentrations of the water quality parameters presented in Tables 13 through 17 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 WRP.** Locations 35 and 36, upstream and downstream, respectively, of the North Side WRP, are classified as General Use and Secondary Contact waters. Fifty-nine water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 30 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- pH, alkalinity (total), chloride, total Kjeldahl nitrogen, ammonium nitrogen, un-ionized ammonia, organic nitrogen, nitrite plus nitrate nitrogen, total solids, total dissolved solids, sulfate, total phosphorus, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, *Escherichia coli*, total calcium, total magnesium, hardness, gross beta radioactivity, total boron, total copper, total zinc, soluble calcium, soluble magnesium, soluble boron, soluble iron, soluble nickel, and soluble zinc.

All parameters had significantly higher mean concentrations downstream than upstream except pH, which had a higher mean upstream than downstream.

Out of the 30 parameters listed above, 16 parameters have either IPCB Human Health, General Use, or Secondary Contact Water quality limits. These parameters are:

- pH, chloride, ammonium nitrogen, un-ionized ammonia, total dissolved solids, sulfate, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, total boron, total copper, total zinc, soluble iron, soluble nickel, and soluble zinc.

Twelve of the 16 parameters subject to IPCB Human Health, General Use, or Secondary Contact limits were in total compliance at the upstream location. These parameters were:

- pH, chloride, ammonium nitrogen, total dissolved solids, sulfate, weak acid dissociable cyanide, fluoride, gross beta radioactivity, total boron, soluble iron, soluble nickel, and soluble zinc.

The compliance rate of fecal coliform was 88.9 percent. The remaining three parameters (un-ionized ammonia, total copper, and total zinc) were not regulated by IPCB Human Health or General Use limits.

Seven of the 16 parameters subject to IPCB Human Health, General Use, or Secondary Contact water quality limits were in total compliance at the downstream location. These parameters were:

- pH, un-ionized ammonia, total dissolved solids, fluoride, total copper, total zinc, and soluble iron

The remaining nine parameters (gross beta radioactivity, total boron, soluble nickel, and soluble zinc) were not regulated by IPCB Secondary Contact limits.

**Stickney WRP.** 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-three water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 10 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- nitrite plus nitrate nitrogen, sulfate, total cyanide, fluoride, fecal coliform, chlorophyll *a*, total boron, total nickel, soluble boron, and soluble nickel.

All parameters had significantly higher mean concentrations downstream than upstream except chlorophyll *a* which had a higher mean upstream than downstream.

Out of the 10 parameters listed above, three parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- total cyanide, fluoride, and total nickel.

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

**Calumet WRP.** Both the upstream and downstream sampling locations (56 and 76, respectively) of Calumet WRP are located in the Secondary Contact Waters of the Calumet River System. Sixty-four water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 13 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- pH, turbidity, nitrite plus nitrate nitrogen, total suspended solids, total phosphorus, fluoride, fecal coliform, *Escherichia coli*, total barium, total iron, soluble barium, soluble iron, and soluble zinc.

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

- pH, turbidity, total suspended solids, total barium, total iron, and soluble barium.

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

- nitrite plus nitrate nitrogen, total phosphorus, fluoride, fecal coliform, *Escherichia coli*, soluble iron, and soluble zinc.



Out of the 13 parameters listed above, five parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- pH, fluoride, total barium, total iron, and soluble iron.

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

**John E. Egan WRP.** Both the upstream and downstream sampling locations (79 and 80, respectively) of John E. Egan WRP are located in the General Use Waters of the Des Plaines River System. Sixty-three water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 15 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, fluoride, total organic carbon, chlorophyll *a*, total barium, total boron, total chromium, total iron, total manganese, soluble barium, soluble boron, and soluble zinc.

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

- turbidity, total suspended solids, volatile suspended solids, total organic carbon, chlorophyll *a*, total barium, total chromium, total iron, total manganese, and soluble barium.

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

- nitrite plus nitrate nitrogen, fluoride, total boron, soluble boron, and soluble zinc.

Out of the 15 parameters listed above, five parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- fluoride, total barium, total boron, total manganese, and soluble zinc.

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

**James C. Kirie WRP.** Both the upstream and downstream sampling locations (77 and 78, respectively) of James C. Kirie WRP are located in the General Use Waters of the Des Plaines River System. Sixty-three water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 27 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- alkalinity (total), turbidity, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total suspended solids, sulfate, total phosphorus, fluoride, total calcium, total magnesium, hardness, gross beta radioactivity, total barium, total boron, total copper, total iron, total lead, total nickel, total manganese, low level mercury, soluble calcium, soluble magnesium, soluble boron, soluble iron, soluble nickel, and soluble zinc.

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

- turbidity, total suspended solids, total barium, total copper, total iron, total lead, total manganese, low level mercury, and soluble iron.

The remaining 18 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- alkalinity (total), total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, sulfate, total phosphorus, fluoride, total calcium, total magnesium, hardness, gross beta radioactivity, total boron, total nickel, soluble calcium, soluble magnesium, soluble boron, soluble nickel, and soluble zinc.

Out of the 27 parameters listed above, 9 parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- sulfate, fluoride, gross beta radioactivity, total barium, total boron, total manganese, soluble iron, soluble nickel, and soluble zinc.

All nine parameters subject to IPCB Human Health or General Use water quality limits were in total compliance at the upstream location.

Eight of the nine parameters subject to IPCB Human Health or General Use limits were in total compliance at the downstream location. These parameters were:

- sulfate, gross beta radioactivity, total barium, total boron, total manganese, soluble iron, soluble nickel, and soluble zinc.

The compliance rate for fluoride was 91.7 percent.

**Hanover Park WRP.** Both the upstream and downstream sampling locations (63 and 89, respectively) of Hanover Park WRP are located in the General Use Waters of the Des Plaines River System. No sample was taken in 2007 at Location 63 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 2007

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
DO	Dissolved Oxygen	mg/L	5	(3, 4) <sup>1</sup>
Temp	Temperature	°C	16 (32 Apr - Nov)	37.8
pH	pH		6.5 - 9	6 - 9
Alk	Alkalinity (Total)	mg/L	None	None
Cl	Chloride	mg/L	500	None
Turb	Turbidity	NTU	None	None
TKN	Total Kjeldahl Nitrogen	mg/L	None	None
NH <sub>4</sub> -N	Ammonium Nitrogen	mg/L	(10) <sup>2</sup>	None
NH <sub>3</sub> -N	Un-ionized Ammonia	mg/L	None	0.1
ORG-N	Organic Nitrogen	mg/L	None	None
NO <sub>2</sub> + NO <sub>3</sub>	Nitrite Plus Nitrate Nitrogen	mg/L	None	None
TS	Total Solids	mg/L	None	None
TSS	Total Suspended Solids	mg/L	None	None
VSS	Volatile Suspended Solids	mg/L	None	None
TDS	Total Dissolved Solids	mg/L	1000	1500
Phenol	Phenols	µg/L	100	300
SO <sub>4</sub>	Sulfate	mg/L	500	None
FOG	Fats, Oils, and Greases	mg/L	None	15
TP	Total Phosphorus	mg/L	None	None
CN	Total Cyanide	mg/L	None	0.1
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.022	None
F	Fluoride	mg/L	1.4	15
TOC	Total Organic Carbon	mg/L	None	None
FC	Fecal Coliform	cfu/100mL	400	None
EColi	Escherichia Coli	cfu/100mL	None	None
Ca	Total Calcium	mg/L	None	None
Mg	Total Magnesium	mg/L	None	None
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
Bzn	Benzene**	µg/L	310	None
Bzn	Benzene	µg/L	4200	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS  
ASSAYED IN 2007

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Ebnzn	Ethylbenzene	$\mu\text{g/L}$	150	None
Toln	Toluene	$\mu\text{g/L}$	2000	None
Xyln	Xylene	$\mu\text{g/L}$	920	None
Ag	Total Silver	mg/L	0.005	1.1
As	Total Arsenic	mg/L	None	1
Ba	Total Barium	mg/L	5	5
B	Total Boron	mg/L	1	None
Cd	Total Cadmium	mg/L	None	0.15
Cu	Total Copper	mg/L	None	1
Cr	Total Chromium	mg/L	None	None
Cr <sup>+6</sup>	Total Hexavalent Chromium	$\mu\text{g/L}$	16	300
Fe	Total Iron	mg/L	None	2
Pb	Total Lead	mg/L	None	0.1
Ni	Total Nickel	mg/L	None	1
Mn	Total Manganese	mg/L	1	1
Hg	Total Mercury**	$\mu\text{g/L}$	0.012	None
Hg	Total Mercury	$\mu\text{g/L}$	None	0.5
Hg—	Low Level Mercury	ng/L	None	None
Zn	Total Zinc	mg/L	None	1
Se	Total Selenium	mg/L	1	1
Sol. Ca	Soluble Calcium	mg/L	None	None
Sol. Mg	Soluble Magnesium	mg/L	None	None
Sol. Ag	Soluble Silver	mg/L	None	None
Sol. As	Soluble Arsenic	mg/L	0.36	None
Sol. Ba	Soluble Barium	mg/L	None	None
Sol. B	Soluble Boron	mg/L	None	None
Sol. Cd	Soluble Cadmium	mg/L	(0.034) <sup>3</sup>	None
Sol. Cu	Soluble Copper	mg/L	(0.053) <sup>4</sup>	None
Sol. Cr	Soluble Chromium	mg/L	(1.484) <sup>5</sup>	None
Sol. Fe	Soluble Iron	mg/L	1	0.5
Sol. Pb	Soluble Lead	mg/L	(0.276) <sup>6</sup>	None
Sol. Ni	Soluble Nickel	mg/L	(0.230) <sup>7</sup>	None
Sol. Mn	Soluble Manganese	mg/L	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS  
ASSAYED IN 2007

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Sol. Hg	Soluble Mercury	$\mu\text{g/L}$	2.21	None
Sol. Zn	Soluble Zinc	mg/L	(0.334) <sup>8</sup>	None
Sol. Se	Soluble Selenium	mg/L	None	None

\*As per Illinois Pollution Control Board, except as modified (see text)

\*\*As Human Health Standard

<sup>1</sup>Standard is 3 mg/L for locations (43,58, and 59) and 4 mg/L for other Secondary Contact locations

<sup>2</sup>Based on  $\min\left(\frac{0.411}{1+10^{7.204-\text{pH}}} + \frac{58.4}{1+10^{\text{pH}-7.204}}, 15\right)$

<sup>3</sup>Based on  $\min\left(e^{-2.98+1.128 \ln(\text{Hard})} * (1.138672 - 0.041838 \ln(\text{Hard}))/1000, 0.005\right)$

<sup>4</sup>Based on  $0.00090 e^{-1.464+0.9422 \ln(\text{Hard})}$

<sup>5</sup>Based on  $0.000316 e^{3.688+0.819 \ln(\text{Hard})}$

<sup>6</sup>Based on  $e^{-1.301+1.1.273 \ln(\text{Hard})} * (1.46203 - 0.145712 \ln(\text{Hard}))/1000$

<sup>7</sup>Based on  $0.000998 e^{0.5173+0.846 \ln(\text{Hard})}$

<sup>8</sup>Based on  $0.000978 e^{0.9035+0.8473 \ln(\text{Hard})}$

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

No.	Sampling Station	Type Sample	Water Use <sup>1</sup>	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
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



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

No.	Sampling Station	Type Sample	Water Use <sup>1</sup>	River System
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 Rail Road 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
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

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

No.	Sampling Station	Type Sample	Water Use <sup>1</sup>	River System
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
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 <sup>2</sup>	Grab	SEC	Des Plaines
94	Empress Casino, Des Plaines River <sup>2</sup>	Grab	SEC	Des Plaines
95	I-55, Des Plaines River <sup>2</sup>	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

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

No.	Sampling Station	Type Sample	Water Use <sup>1</sup>	River System
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

<sup>1</sup>GEN = General Use, SEC = Secondary Contact, EFF = Effluent

<sup>2</sup>Maintained for special studies only

\*Excluded in 2007 sampling

APPENDIX AII

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

TABLE AII-1: WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	DO mg/L	Temp °C	pH	Alk mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	8.75	9.8	7.64	163
103 Golf Road, West Fork North Branch Chicago River	7.31	15.4	7.50	186
31 Lake-Cook Road, Middle Fork North Branch	6.16	15.7	7.67	205
104 Glenview Road, North Branch Chicago River	6.90	14.8	7.85	173
32 Lake-Cook Road, Skokie River	7.21	16.2	7.85	215
105 Frontage Road, Skokie River	7.76	14.9	7.88	168
34 Dempster Street, North Branch Chicago River	6.52	14.7	7.67	175
96 Albany Avenue, North Branch Chicago River	8.19	15.1	7.77	174
35 Central Street, North Shore Channel	8.23	15.5	7.78	121
102 Oakton Street, North Shore Channel	7.76	14.3	7.58	133
36 Touhy Avenue, North Shore Channel	7.65	17.0	7.40	142
101 Foster Avenue, North Shore Channel	7.13	16.7	7.25	142
37 Wilson Avenue, North Branch Chicago River	7.58	15.7	7.44	145
73 Diversey Parkway, North Branch Chicago River	6.75	15.5	7.21	147
46 Grand Avenue, North Branch Chicago River	6.67	16.5	7.45	147
74 Lake Shore Drive, Chicago River	9.00	14.5	7.60	124
100 Wells Street, Chicago River	8.39	14.5	7.68	125
39 Madison Street, South Branch Chicago River	7.45	14.1	7.65	135
108 Loomis Street, South Branch Chicago River	7.21	16.3	7.50	136
99 Archer Avenue, South Fork South Branch Chicago River	6.19	16.6	7.45	135
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.25	16.3	7.49	136
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.22	20.2	7.29	137
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.59	16.3	7.27	131
42 Route 83, Chicago Sanitary & Ship Canal	6.00	18.7	7.13	138
48 Stephen Street, Chicago Sanitary & Ship Canal	5.98	17.4	7.32	142
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.07	19.8	7.31	146
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	9.66	16.3	7.77	113
50 Burnham Avenue, Wolf Lake	8.79	16.3	8.29	104
55 130th Street, Calumet River	8.91	17.6	7.85	114
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4.21	16.8	7.64	262
56 Indiana Avenue, Little Calumet River	7.49	18.6	7.65	137
76 Halsted Street, Little Calumet River	6.35	17.2	7.40	162
52 Wentworth Avenue, Little Calumet River	6.43	14.9	7.77	208
54 Joe Orr Road, Thorn Creek	8.19	16.3	7.17	177
97 170th Street, Thorn Creek	7.34	15.4	7.71	176
57 Ashland Avenue, Little Calumet River	6.50	15.3	7.71	174
58 Ashland Avenue, Calumet Sag Channel	6.54	16.3	7.42	156
59 Cicero Avenue, Calumet Sag Channel	6.79	16.5	7.39	154
43 Route 83, Calumet Sag Channel	6.51	17.3	7.51	151
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	9.64	14.3	7.95	210
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	8.68	15.7	7.59	152
64 Lake Street, West Branch DuPage River	8.91	14.8	7.81	150
79 Higgins Road, Salt Creek	7.80	15.8	7.80	159
80 Arlington Heights Road, Salt Creek	8.78	15.0	7.59	133
18 Devon Avenue, Salt Creek	8.94	14.3	7.63	132
24 Wolf Road, Salt Creek	8.23	14.6	7.52	140
109 Brookfield Avenue, Salt Creek	7.59	14.5	7.72	139
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	8.66	14.0	7.80	118
78 Wille Road, Higgins Creek	8.76	16.2	7.67	175
12 Lake-Cook Road, Buffalo Creek	8.83	14.2	7.70	188
13 Lake-Cook Road, Des Plaines River	8.55	13.1	7.69	201
17 Oakton Street, Des Plaines River	8.39	14.4	7.79	187
19 Belmont Avenue, Des Plaines River	7.67	14.8	7.83	179
20 Roosevelt Road, Des Plaines River	7.62	15.2	7.84	182
22 Ogden Avenue, Des Plaines River	8.94	14.4	7.96	164
23 Willow Springs Road, Des Plaines River	8.65	15.7	7.79	168
29 Stephen Street, Des Plaines River	8.56	15.5	7.72	172
91 Material Service Road, Des Plaines River	9.38	15.8	7.98	175
110 Springinguth Road, West Branch DuPage River	6.17	14.9	7.76	191

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Cl mg/L	Turb NTU	TKN mg/L	NH <sub>4</sub> -N mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	297	29.0	1.30	0.323
103 Golf Road, West Fork North Branch Chicago River	329	14.1	1.34	0.221
31 Lake-Cook Road, Middle Fork North Branch	286	14.9	1.20	0.145
104 Glenview Road, North Branch Chicago River	258	13.7	1.27	0.175
32 Lake-Cook Road, Skokie River	290	14.6	1.08	0.198
105 Frontage Road, Skokie River	228	15.6	1.31	0.121
34 Dempster Street, North Branch Chicago River	277	15.3	1.23	0.164
96 Albany Avenue, North Branch Chicago River	283	14.6	1.16	0.110
35 Central Street, North Shore Channel	51	5.1	0.58	0.166
102 Oakton Street, North Shore Channel	133	10.3	1.27	0.521
36 Touhy Avenue, North Shore Channel	212	4.2	2.07	0.837
101 Foster Avenue, North Shore Channel	231	5.1	2.39	1.210
37 Wilson Avenue, North Branch Chicago River	249	8.2	1.92	0.879
73 Diversey Parkway, North Branch Chicago River	190	8.8	1.79	0.698
46 Grand Avenue, North Branch Chicago River	204	13.2	1.94	0.710
74 Lake Shore Drive, Chicago River	106	3.5	0.55	0.185
100 Wells Street, Chicago River	127	4.0	0.85	0.297
39 Madison Street, South Branch Chicago River	174	10.7	1.44	0.574
108 Loomis Street, South Branch Chicago River	207	10.1	1.47	0.513
99 Archer Avenue, South Fork South Branch Chicago River	190	7.4	1.57	0.637
40 Damen Avenue, Chicago Sanitary & Ship Canal	218	11.8	1.45	0.563
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	228	8.6	1.47	0.590
41 Harlem Avenue, Chicago Sanitary & Ship Canal	267	6.0	1.75	0.556
42 Route 83, Chicago Sanitary & Ship Canal	187	6.9	1.79	0.687
48 Stephen Street, Chicago Sanitary & Ship Canal	165	10.2	1.56	0.478
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	194	9.0	1.55	0.516
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	46	4.0	0.34	0.087
50 Burnham Avenue, Wolf Lake	68	3.8	0.85	0.132
55 130th Street, Calumet River	88	6.3	0.77	0.161
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	144	10.3	4.57	2.218
56 Indiana Avenue, Little Calumet River	109	20.3	1.13	0.306
76 Halsted Street, Little Calumet River	181	8.4	1.34	0.295
52 Wentworth Avenue, Little Calumet River	132	31.2	1.51	0.290
54 Joe Orr Road, Thorn Creek	176	9.8	1.50	0.295
97 170th Street, Thorn Creek	158	25.4	1.43	0.191
57 Ashland Avenue, Little Calumet River	171	28.2	1.39	0.232
58 Ashland Avenue, Calumet Sag Channel	161	16.6	1.40	0.301
59 Cicero Avenue, Calumet Sag Channel	167	18.8	1.28	0.263
43 Route 83, Calumet Sag Channel	164	14.5	1.41	0.310
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	277	7.9	0.99	0.094
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	187	7.5	1.85	0.242
64 Lake Street, West Branch DuPage River	235	19.2	2.01	0.340
79 Higgins Road, Salt Creek	353	25.1	1.51	0.129
80 Arlington Heights Road, Salt Creek	268	9.1	1.24	0.107
18 Devon Avenue, Salt Creek	287	10.1	1.12	0.112
24 Wolf Road, Salt Creek	275	24.0	1.19	0.162
109 Brookfield Avenue, Salt Creek	271	21.1	1.18	0.174
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	259	23.9	0.96	0.172
78 Wille Road, Higgins Creek	247	4.5	1.60	0.353
12 Lake-Cook Road, Buffalo Creek	272	26.7	1.37	0.110
13 Lake-Cook Road, Des Plaines River	184	16.5	1.38	0.103
17 Oakton Street, Des Plaines River	195	16.9	1.27	0.099
19 Belmont Avenue, Des Plaines River	208	18.6	1.45	0.117
20 Roosevelt Road, Des Plaines River	214	19.0	1.28	0.088
22 Ogden Avenue, Des Plaines River	228	21.7	1.27	0.130
23 Willow Springs Road, Des Plaines River	238	21.2	1.22	0.131
29 Stephen Street, Des Plaines River	242	18.0	1.26	0.105
91 Material Service Road, Des Plaines River	225	21.7	1.20	0.085
110 Springinguth Road, West Branch DuPage River	267	16.2	2.04	0.344

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	NH <sub>3</sub> -N <sup>1</sup> mg/L	ORG-N mg/L	NO <sub>2</sub> + NO <sub>3</sub> mg/L	TS mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.98	4.63	1603
103 Golf Road, West Fork North Branch Chicago River	0.002	1.12	3.49	1146
31 Lake-Cook Road, Middle Fork North Branch	0.003	1.06	0.24	797
104 Glenview Road, North Branch Chicago River	0.004	1.10	4.52	761
32 Lake-Cook Road, Skokie River	0.005	0.88	0.46	823
105 Frontage Road, Skokie River	0.002	1.19	5.58	696
34 Dempster Street, North Branch Chicago River	0.002	1.07	3.97	850
96 Albany Avenue, North Branch Chicago River	0.002	1.05	4.07	854
35 Central Street, North Shore Channel	0.002	0.41	0.31	260
102 Oakton Street, North Shore Channel	0.005	0.75	3.33	443
36 Touhy Avenue, North Shore Channel	0.007	1.24	6.53	646
101 Foster Avenue, North Shore Channel	0.009	1.18	7.58	704
37 Wilson Avenue, North Branch Chicago River	0.008	1.04	7.29	750
73 Diversey Parkway, North Branch Chicago River	0.004	1.09	6.47	613
46 Grand Avenue, North Branch Chicago River	0.007	1.23	6.43	674
74 Lake Shore Drive, Chicago River	0.002	0.37	1.31	365
100 Wells Street, Chicago River	0.004	0.55	2.29	409
39 Madison Street, South Branch Chicago River	0.008	0.86	4.41	548
108 Loomis Street, South Branch Chicago River	0.006	0.96	4.39	592
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.93	3.91	560
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	0.88	4.15	616
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.006	0.88	4.50	647
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	1.19	7.11	764
42 Route 83, Chicago Sanitary & Ship Canal	0.004	1.11	6.08	616
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	1.08	5.59	606
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	1.04	5.45	647
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.002	0.25	0.37	242
50 Burnham Avenue, Wolf Lake	0.022	0.71	0.16	295
55 130th Street, Calumet River	0.004	0.61	0.68	395
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.044	2.35	1.81	747
56 Indiana Avenue, Little Calumet River	0.005	0.83	1.40	478
76 Halsted Street, Little Calumet River	0.003	1.04	5.17	648
52 Wentworth Avenue, Little Calumet River	0.006	1.22	4.18	679
54 Joe Orr Road, Thorn Creek	0.003	1.21	9.18	1417
97 170th Street, Thorn Creek	0.003	1.24	5.49	1009
57 Ashland Avenue, Little Calumet River	0.003	1.16	3.25	830
58 Ashland Avenue, Calumet Sag Channel	0.004	1.09	4.26	605
59 Cicero Avenue, Calumet Sag Channel	0.003	1.02	3.92	622
43 Route 83, Calumet Sag Channel	0.004	1.10	4.69	628
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.003	0.90	0.29	784
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.003	1.61	7.98	647
64 Lake Street, West Branch DuPage River	0.007	1.67	7.34	670
79 Higgins Road, Salt Creek	0.003	1.38	0.23	974
80 Arlington Heights Road, Salt Creek	0.002	1.13	7.10	789
18 Devon Avenue, Salt Creek	0.002	1.01	7.01	782
24 Wolf Road, Salt Creek	0.002	1.03	6.47	814
109 Brookfield Avenue, Salt Creek	0.003	1.00	5.56	786
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.004	0.79	0.40	650
78 Wille Road, Higgins Creek	0.006	1.25	5.83	786
12 Lake-Cook Road, Buffalo Creek	0.002	1.26	0.31	816
13 Lake-Cook Road, Des Plaines River	0.002	1.27	5.26	664
17 Oakton Street, Des Plaines River	0.002	1.17	4.09	657
19 Belmont Avenue, Des Plaines River	0.003	1.33	3.95	688
20 Roosevelt Road, Des Plaines River	0.002	1.19	3.81	704
22 Ogden Avenue, Des Plaines River	0.004	1.14	3.95	720
23 Willow Springs Road, Des Plaines River	0.003	1.09	4.13	743
29 Stephen Street, Des Plaines River	0.002	1.16	4.40	728
91 Material Service Road, Des Plaines River	0.002	1.12	4.28	720
110 Springinguth Road, West Branch DuPage River	0.007	1.70	0.62	902

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	TSS mg/L	VSS mg/L	TDS mg/L	Phenol µg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	25.5	2.25	1577	1.0
103 Golf Road, West Fork North Branch Chicago River	12.2	2.91	1134	1.7
31 Lake-Cook Road, Middle Fork North Branch	16.4	3.90	780	1.5
104 Glenview Road, North Branch Chicago River	14.2	3.55	747	0.0
32 Lake-Cook Road, Skokie River	16.4	3.20	806	0.3
105 Frontage Road, Skokie River	18.5	4.64	677	1.1
34 Dempster Street, North Branch Chicago River	17.2	2.55	832	0.9
96 Albany Avenue, North Branch Chicago River	16.8	3.73	837	0.0
35 Central Street, North Shore Channel	5.3	2.00	254	0.3
102 Oakton Street, North Shore Channel	11.8	3.75	432	1.5
36 Touhy Avenue, North Shore Channel	5.0	2.58	641	1.0
101 Foster Avenue, North Shore Channel	5.7	1.83	698	0.5
37 Wilson Avenue, North Branch Chicago River	8.3	3.08	741	1.2
73 Diversey Parkway, North Branch Chicago River	10.6	3.25	603	1.1
46 Grand Avenue, North Branch Chicago River	16.3	4.27	658	0.8
74 Lake Shore Drive, Chicago River	5.6	1.55	359	0.4
100 Wells Street, Chicago River	4.7	1.45	404	0.6
39 Madison Street, South Branch Chicago River	18.3	3.36	530	0.5
108 Loomis Street, South Branch Chicago River	18.5	3.50	573	1.0
99 Archer Avenue, South Fork South Branch Chicago River	10.1	2.55	549	0.3
40 Damen Avenue, Chicago Sanitary & Ship Canal	17.9	3.42	599	0.6
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	16.6	4.08	630	1.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	15.3	3.67	749	0.8
42 Route 83, Chicago Sanitary & Ship Canal	21.8	3.91	594	0.5
48 Stephen Street, Chicago Sanitary & Ship Canal	23.8	5.36	583	0.0
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	12.9	3.00	634	1.2
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	5.8	1.20	236	0.4
50 Burnham Avenue, Wolf Lake	5.2	2.91	289	0.0
55 130th Street, Calumet River	6.8	1.90	388	0.0
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	18.5	8.70	728	2.3
56 Indiana Avenue, Little Calumet River	21.6	3.56	457	1.0
76 Halsted Street, Little Calumet River	10.6	2.27	637	1.6
52 Wentworth Avenue, Little Calumet River	44.7	6.82	634	1.3
54 Joe Orr Road, Thorn Creek	7.1	1.70	1409	1.2
97 170th Street, Thorn Creek	35.5	4.09	974	1.0
57 Ashland Avenue, Little Calumet River	34.6	5.18	795	0.4
58 Ashland Avenue, Calumet Sag Channel	17.5	3.09	588	1.1
59 Cicero Avenue, Calumet Sag Channel	20.3	3.64	602	0.3
43 Route 83, Calumet Sag Channel	16.6	4.00	612	0.0
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	13.9	3.36	770	1.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	15.3	3.67	631	1.0
64 Lake Street, West Branch DuPage River	27.5	8.33	643	0.6
79 Higgins Road, Salt Creek	33.0	9.70	941	1.5
80 Arlington Heights Road, Salt Creek	10.2	3.17	779	0.6
18 Devon Avenue, Salt Creek	16.3	5.83	766	1.2
24 Wolf Road, Salt Creek	30.6	6.91	783	0.6
109 Brookfield Avenue, Salt Creek	25.1	6.00	761	0.5
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	26.4	5.20	623	0.0
78 Wille Road, Higgins Creek	6.5	3.25	780	1.6
12 Lake-Cook Road, Buffalo Creek	41.1	8.67	775	0.3
13 Lake-Cook Road, Des Plaines River	21.8	5.50	642	0.7
17 Oakton Street, Des Plaines River	22.9	5.73	634	1.1
19 Belmont Avenue, Des Plaines River	26.5	6.82	662	0.6
20 Roosevelt Road, Des Plaines River	26.5	5.36	677	0.5
22 Ogden Avenue, Des Plaines River	29.7	7.09	690	0.6
23 Willow Springs Road, Des Plaines River	23.9	5.73	719	0.7
29 Stephen Street, Des Plaines River	22.8	4.64	705	0.3
91 Material Service Road, Des Plaines River	25.9	5.64	694	0.3
110 Springinguth Road, West Branch DuPage River	22.3	8.40	879	1.2



TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	SO <sub>4</sub> mg/L	FOG mg/L	TP mg/L	CN mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	46.6	ND	1.038	0.005
103 Golf Road, West Fork North Branch Chicago River	68.9	ND	0.669	0.002
31 Lake-Cook Road, Middle Fork North Branch	57.1	ND	0.183	0.000
104 Glenview Road, North Branch Chicago River	60.3	ND	1.028	0.001
32 Lake-Cook Road, Skokie River	53.3	ND	0.175	0.000
105 Frontage Road, Skokie River	52.7	ND	1.246	0.001
34 Dempster Street, North Branch Chicago River	60.3	ND	0.879	0.001
96 Albany Avenue, North Branch Chicago River	59.7	ND	0.808	0.001
35 Central Street, North Shore Channel	30.4	ND	0.062	0.000
102 Oakton Street, North Shore Channel	39.9	0.42	0.538	0.001
36 Touhy Avenue, North Shore Channel	49.1	0.30	1.388	0.002
101 Foster Avenue, North Shore Channel	50.6	0.33	1.450	0.003
37 Wilson Avenue, North Branch Chicago River	54.1	0.67	1.287	0.002
73 Diversey Parkway, North Branch Chicago River	52.3	0.00	1.112	0.002
46 Grand Avenue, North Branch Chicago River	53.6	0.27	1.115	0.002
74 Lake Shore Drive, Chicago River	31.7	ND	0.152	0.000
100 Wells Street, Chicago River	36.8	ND	0.308	0.000
39 Madison Street, South Branch Chicago River	44.9	0.27	0.709	0.001
108 Loomis Street, South Branch Chicago River	47.2	0.00	0.678	0.001
99 Archer Avenue, South Fork South Branch Chicago River	46.1	0.00	0.609	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	46.3	0.67	0.686	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	48.5	0.25	0.763	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	67.3	0.00	1.008	0.004
42 Route 83, Chicago Sanitary & Ship Canal	72.8	0.55	0.830	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	83.8	0.00	0.964	0.002
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	85.7	0.14	0.852	0.002
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	32.1	ND	0.011	0.000
50 Burnham Avenue, Wolf Lake	42.6	ND	0.037	0.001
55 130th Street, Calumet River	82.7	ND	0.031	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	196.1	0.60	1.209	0.004
56 Indiana Avenue, Little Calumet River	90.1	0.00	0.189	0.001
76 Halsted Street, Little Calumet River	87.7	0.00	1.037	0.002
52 Wentworth Avenue, Little Calumet River	118.4	ND	0.585	0.006
54 Joe Orr Road, Thorn Creek	596.3	ND	2.329	0.002
97 170th Street, Thorn Creek	352.0	ND	1.479	0.001
57 Ashland Avenue, Little Calumet River	223.0	ND	0.834	0.003
58 Ashland Avenue, Calumet Sag Channel	91.4	0.00	0.963	0.002
59 Cicero Avenue, Calumet Sag Channel	94.2	0.00	0.989	0.002
43 Route 83, Calumet Sag Channel	104.5	0.00	1.037	0.001
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	53.9	ND	0.100	0.001
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	65.7	ND	2.460	0.005
64 Lake Street, West Branch DuPage River	65.3	ND	2.062	0.003
79 Higgins Road, Salt Creek	62.5	ND	0.132	0.002
80 Arlington Heights Road, Salt Creek	76.8	ND	0.513	0.002
18 Devon Avenue, Salt Creek	75.7	ND	0.548	0.002
24 Wolf Road, Salt Creek	84.6	ND	0.839	0.001
109 Brookfield Avenue, Salt Creek	79.9	ND	0.765	0.001
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	37.5	ND	0.112	0.000
78 Wille Road, Higgins Creek	91.0	ND	0.813	0.004
12 Lake-Cook Road, Buffalo Creek	70.8	ND	0.167	0.000
13 Lake-Cook Road, Des Plaines River	75.7	ND	0.934	0.000
17 Oakton Street, Des Plaines River	69.8	ND	0.772	0.001
19 Belmont Avenue, Des Plaines River	70.6	ND	0.738	0.002
20 Roosevelt Road, Des Plaines River	70.5	ND	0.700	0.002
22 Ogden Avenue, Des Plaines River	68.8	ND	0.697	0.002
23 Willow Springs Road, Des Plaines River	73.1	ND	0.647	0.002
29 Stephen Street, Des Plaines River	76.9	ND	0.715	0.001
91 Material Service Road, Des Plaines River	74.9	ND	0.733	0.001
110 Springinguth Road, West Branch DuPage River	85.1	ND	0.179	0.002

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	WAD-CN mg/L	F mg/L	TOC mg/L	FC <sup>2</sup> cfu/100mL
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.345	3.90	2476
103 Golf Road, West Fork North Branch Chicago River	0.001	0.401	4.05	660
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.361	6.75	633
104 Glenview Road, North Branch Chicago River	0.000	0.519	4.40	827
32 Lake-Cook Road, Skokie River	0.000	0.314	4.96	736
105 Frontage Road, Skokie River	0.001	0.569	4.29	199
34 Dempster Street, North Branch Chicago River	0.001	0.485	4.25	600
96 Albany Avenue, North Branch Chicago River	0.001	0.478	4.32	520
35 Central Street, North Shore Channel	0.000	0.198	1.78	66
102 Oakton Street, North Shore Channel	0.001	0.420	2.92	638
36 Touhy Avenue, North Shore Channel	0.001	0.763	4.03	8875
101 Foster Avenue, North Shore Channel	0.001	0.753	4.07	9612
37 Wilson Avenue, North Branch Chicago River	0.001	0.710	3.88	7479
73 Diversey Parkway, North Branch Chicago River	0.001	0.699	4.10	3608
46 Grand Avenue, North Branch Chicago River	0.001	0.688	4.01	1226
74 Lake Shore Drive, Chicago River	0.001	0.229	1.87	86
100 Wells Street, Chicago River	0.001	0.312	2.25	183
39 Madison Street, South Branch Chicago River	0.001	0.465	3.03	922
108 Loomis Street, South Branch Chicago River	0.001	0.467	3.17	371
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.472	3.34	294
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.467	3.15	349
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.498	3.24	347
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.633	3.80	4908
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.685	4.19	1289
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.636	4.20	645
82 Lockport Treblay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.634	4.34	227
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.001	0.170	1.48	12
50 Burnham Avenue, Wolf Lake	0.001	0.334	4.00	70
55 130th Street, Calumet River	0.001	0.264	2.75	19
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.696	17.54	2448
56 Indiana Avenue, Little Calumet River	0.001	0.348	3.47	49
76 Halsted Street, Little Calumet River	0.001	0.534	4.19	3259
52 Wentworth Avenue, Little Calumet River	0.002	2.539	6.22	1477
54 Joe Orr Road, Thorn Creek	0.001	0.549	5.04	2411
97 170th Street, Thorn Creek	0.001	0.470	5.22	698
57 Ashland Avenue, Little Calumet River	0.001	0.803	6.68	816
58 Ashland Avenue, Calumet Sag Channel	0.001	0.514	4.60	2122
59 Cicero Avenue, Calumet Sag Channel	0.001	0.507	4.55	1178
43 Route 83, Calumet Sag Channel	0.001	0.511	4.64	188
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.001	0.231	5.13	181
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.003	0.643	6.73	2013
64 Lake Street, West Branch DuPage River	0.002	0.569	6.05	2406
79 Higgins Road, Salt Creek	0.001	0.259	5.27	250
80 Arlington Heights Road, Salt Creek	0.002	0.563	4.45	312
18 Devon Avenue, Salt Creek	0.001	0.564	4.49	930
24 Wolf Road, Salt Creek	0.001	0.498	4.07	688
109 Brookfield Avenue, Salt Creek	0.001	0.474	4.29	1425
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.296	4.66	2370
78 Wille Road, Higgins Creek	0.002	0.897	5.03	514
12 Lake-Cook Road, Buffalo Creek	0.001	0.234	6.10	823
13 Lake-Cook Road, Des Plaines River	0.001	0.424	7.90	310
17 Oakton Street, Des Plaines River	0.001	0.374	5.98	313
19 Belmont Avenue, Des Plaines River	0.001	0.442	5.75	516
20 Roosevelt Road, Des Plaines River	0.001	0.453	5.74	634
22 Ogden Avenue, Des Plaines River	0.001	0.437	5.36	767
23 Willow Springs Road, Des Plaines River	0.001	0.440	6.02	302
29 Stephen Street, Des Plaines River	0.001	0.470	5.20	184
91 Material Service Road, Des Plaines River	0.001	0.421	5.45	192
110 Springinguth Road, West Branch DuPage River	0.001	0.265	11.28	6187

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	EColi <sup>2</sup> cfu/100mL	Ca mg/L	Mg mg/L	Hard mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1800	73.6	28.1	300
103 Golf Road, West Fork North Branch Chicago River	347	75.5	29.7	311
31 Lake-Cook Road, Middle Fork North Branch	921	64.2	28.7	278
104 Glenview Road, North Branch Chicago River	266	62.8	26.9	268
32 Lake-Cook Road, Skokie River	527	75.8	31.3	318
105 Frontage Road, Skokie River	118	62.8	26.3	265
34 Dempster Street, North Branch Chicago River	386	64.2	27.2	272
96 Albany Avenue, North Branch Chicago River	400	65.5	27.6	277
35 Central Street, North Shore Channel	44	39.4	13.3	153
102 Oakton Street, North Shore Channel	562	49.3	16.9	193
36 Touhy Avenue, North Shore Channel	8540	56.0	19.5	220
101 Foster Avenue, North Shore Channel	12046	58.0	20.2	228
37 Wilson Avenue, North Branch Chicago River	9093	59.1	21.3	235
73 Diversey Parkway, North Branch Chicago River	3900	57.3	20.7	228
46 Grand Avenue, North Branch Chicago River	1197	57.9	20.9	231
74 Lake Shore Drive, Chicago River	81	42.0	14.5	165
100 Wells Street, Chicago River	169	44.8	15.9	177
39 Madison Street, South Branch Chicago River	584	51.8	18.4	205
108 Loomis Street, South Branch Chicago River	336	52.7	18.7	209
99 Archer Avenue, South Fork South Branch Chicago River	115	50.3	17.7	198
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	52.3	18.6	207
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	932	53.3	18.9	211
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5416	56.2	19.8	222
42 Route 83, Chicago Sanitary & Ship Canal	867	56.0	20.2	223
48 Stephen Street, Chicago Sanitary & Ship Canal	645	58.3	21.2	233
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	251	59.1	21.3	236
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	10	37.3	12.1	143
50 Burnham Avenue, Wolf Lake	89	36.2	12.1	140
55 130th Street, Calumet River	12	46.3	15.8	181
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	682	92.0	39.3	391
56 Indiana Avenue, Little Calumet River	29	55.0	19.8	219
76 Halsted Street, Little Calumet River	1929	66.3	22.8	259
52 Wentworth Avenue, Little Calumet River	2677	79.9	31.4	329
54 Joe Orr Road, Thorn Creek	2611	78.7	30.1	321
97 170th Street, Thorn Creek	1138	71.6	28.4	296
57 Ashland Avenue, Little Calumet River	1530	69.8	27.0	285
58 Ashland Avenue, Calumet Sag Channel	3512	61.8	21.8	244
59 Cicero Avenue, Calumet Sag Channel	1793	61.8	21.8	244
43 Route 83, Calumet Sag Channel	822	61.8	22.4	247
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	148	68.5	30.3	296
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	720	61.6	23.0	249
64 Lake Street, West Branch DuPage River	1714	58.8	22.3	239
79 Higgins Road, Salt Creek	114	63.5	26.2	266
80 Arlington Heights Road, Salt Creek	221	62.7	24.3	257
18 Devon Avenue, Salt Creek	483	63.0	24.5	258
24 Wolf Road, Salt Creek	286	65.1	26.0	269
109 Brookfield Avenue, Salt Creek	492	62.6	25.1	260
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1897	44.5	14.5	171
78 Wille Road, Higgins Creek	221	71.0	25.6	283
12 Lake-Cook Road, Buffalo Creek	287	69.2	30.4	298
13 Lake-Cook Road, Des Plaines River	274	67.9	30.0	293
17 Oakton Street, Des Plaines River	232	64.2	28.5	278
19 Belmont Avenue, Des Plaines River	271	64.2	27.7	274
20 Roosevelt Road, Des Plaines River	457	63.9	27.7	273
22 Ogden Avenue, Des Plaines River	667	62.6	26.6	266
23 Willow Springs Road, Des Plaines River	268	62.7	26.9	268
29 Stephen Street, Des Plaines River	165	65.1	28.2	279
91 Material Service Road, Des Plaines River	263	66.3	28.2	282
110 Springinsguth Road, West Branch DuPage River	6129	77.8	28.3	311

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Alpha pCi/L	Beta pCi/L	Chlrphl µg/L	Bnzn µg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	11.71	11.96	6.3	0.000
103 Golf Road, West Fork North Branch Chicago River	7.08	9.70	12.4	0.000
31 Lake-Cook Road, Middle Fork North Branch	5.25	6.66	7.7	0.000
104 Glenview Road, North Branch Chicago River	5.37	7.18	12.2	0.000
32 Lake-Cook Road, Skokie River	5.29	5.94	8.9	0.000
105 Frontage Road, Skokie River	5.13	8.18	18.1	0.000
34 Dempster Street, North Branch Chicago River	6.56	9.02	9.7	0.000
96 Albany Avenue, North Branch Chicago River	6.03	8.16	9.0	0.000
35 Central Street, North Shore Channel	3.85	4.89	6.2	0.000
102 Oakton Street, North Shore Channel	4.29	5.91	16.2	0.000
36 Touhy Avenue, North Shore Channel	5.27	7.70	1.3	0.000
101 Foster Avenue, North Shore Channel	ND	ND	1.1	0.000
37 Wilson Avenue, North Branch Chicago River	ND	ND	2.9	0.000
73 Diversey Parkway, North Branch Chicago River	ND	ND	2.4	0.000
46 Grand Avenue, North Branch Chicago River	ND	ND	4.9	0.000
74 Lake Shore Drive, Chicago River	4.29	4.73	2.2	0.000
100 Wells Street, Chicago River	4.27	5.22	2.2	0.000
39 Madison Street, South Branch Chicago River	ND	ND	4.0	0.000
108 Loomis Street, South Branch Chicago River	ND	ND	3.7	0.000
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	7.4	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	4.5	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.40	7.36	5.4	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.13	9.43	2.6	0.000
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	5.2	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	6.1	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.89	8.06	5.5	0.000
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	4.14	5.42	1.1	0.000
50 Burnham Avenue, Wolf Lake	4.16	7.02	6.2	0.000
55 130th Street, Calumet River	4.70	7.24	4.0	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	101.0	0.000
56 Indiana Avenue, Little Calumet River	5.08	7.77	14.0	0.000
76 Halsted Street, Little Calumet River	5.28	8.74	6.6	0.000
52 Wentworth Avenue, Little Calumet River	5.63	10.56	13.0	0.000
54 Joe Orr Road, Thorn Creek	7.27	8.90	3.0	0.000
97 170th Street, Thorn Creek	6.27	10.69	9.2	0.000
57 Ashland Avenue, Little Calumet River	5.46	9.52	7.1	0.000
58 Ashland Avenue, Calumet Sag Channel	ND	ND	7.2	0.000
59 Cicero Avenue, Calumet Sag Channel	ND	ND	7.8	0.000
43 Route 83, Calumet Sag Channel	ND	ND	6.5	0.000
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	5.25	6.26	10.9	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	4.82	9.37	7.3	0.000
64 Lake Street, West Branch DuPage River	4.85	9.31	23.2	0.000
79 Higgins Road, Salt Creek	5.39	7.55	39.0	0.000
80 Arlington Heights Road, Salt Creek	5.18	9.10	13.8	0.000
18 Devon Avenue, Salt Creek	5.17	9.40	14.3	0.000
24 Wolf Road, Salt Creek	5.45	9.29	7.4	0.000
109 Brookfield Avenue, Salt Creek	5.46	8.92	7.3	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	5.20	6.99	14.7	0.000
78 Wille Road, Higgins Creek	5.28	11.79	3.8	0.000
12 Lake-Cook Road, Buffalo Creek	5.67	8.20	23.2	0.000
13 Lake-Cook Road, Des Plaines River	5.22	8.94	13.7	0.000
17 Oakton Street, Des Plaines River	5.35	8.40	12.3	0.000
19 Belmont Avenue, Des Plaines River	5.33	9.81	6.1	0.000
20 Roosevelt Road, Des Plaines River	5.36	9.70	6.7	0.000
22 Ogden Avenue, Des Plaines River	5.54	9.27	6.1	0.000
23 Willow Springs Road, Des Plaines River	5.25	8.01	5.1	0.000
29 Stephen Street, Des Plaines River	5.24	9.48	9.5	0.000
91 Material Service Road, Des Plaines River	5.11	9.94	11.9	0.000
110 Springinguth Road, West Branch DuPage River	6.14	7.41	21.4	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Ebnzn μg/L	Toln μg/L	Xyln μg/L	Ag mg/L
<b>Chicago River System</b>				
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	1.267	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	1.067	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.640	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.625	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	0.000	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
<b>Calumet River System</b>				
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 Rail Road 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
<b>Des Plaines River System</b>				
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 Springinguth Road, West Branch DuPage River	0.000	0.625	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	As mg/L	Ba mg/L	B mg/L	Cd mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.062	0.135	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.052	0.149	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.041	0.121	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.034	0.142	0.000
32 Lake-Cook Road, Skokie River	0.000	0.048	0.120	0.000
105 Frontage Road, Skokie River	0.000	0.032	0.149	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.038	0.139	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.039	0.138	0.000
35 Central Street, North Shore Channel	0.000	0.023	0.036	0.000
102 Oakton Street, North Shore Channel	0.000	0.025	0.087	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.024	0.185	0.000
101 Foster Avenue, North Shore Channel	0.000	0.024	0.182	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.027	0.160	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.026	0.166	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.028	0.154	0.000
74 Lake Shore Drive, Chicago River	0.000	0.024	0.092	0.001
100 Wells Street, Chicago River	0.000	0.024	0.079	0.001
39 Madison Street, South Branch Chicago River	0.000	0.027	0.107	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.028	0.109	0.001
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.025	0.111	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.028	0.106	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.027	0.117	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.024	0.168	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.022	0.208	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.025	0.192	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.023	0.196	0.000
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.000	0.023	0.046	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.036	0.171	0.001
55 130th Street, Calumet River	0.000	0.032	0.146	0.001
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.034	0.583	0.001
56 Indiana Avenue, Little Calumet River	0.000	0.033	0.165	0.001
76 Halsted Street, Little Calumet River	0.000	0.024	0.194	0.001
52 Wentworth Avenue, Little Calumet River	0.000	0.039	0.231	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.028	0.313	0.000
97 170th Street, Thorn Creek	0.000	0.035	0.222	0.000
57 Ashland Avenue, Little Calumet River	0.000	0.036	0.202	0.001
58 Ashland Avenue, Calumet Sag Channel	0.000	0.026	0.173	0.001
59 Cicero Avenue, Calumet Sag Channel	0.000	0.027	0.165	0.000
43 Route 83, Calumet Sag Channel	0.000	0.027	0.168	0.000
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.000	0.078	0.058	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.029	0.248	0.000
64 Lake Street, West Branch DuPage River	0.000	0.031	0.187	0.000
79 Higgins Road, Salt Creek	0.000	0.045	0.085	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.027	0.198	0.000
18 Devon Avenue, Salt Creek	0.000	0.028	0.196	0.000
24 Wolf Road, Salt Creek	0.000	0.034	0.182	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.034	0.183	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.043	0.089	0.000
78 Wille Road, Higgins Creek	0.000	0.024	0.260	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.044	0.088	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.040	0.155	0.000
17 Oakton Street, Des Plaines River	0.000	0.040	0.137	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.038	0.154	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.038	0.151	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.037	0.155	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.036	0.161	0.000
29 Stephen Street, Des Plaines River	0.000	0.037	0.167	0.000
91 Material Service Road, Des Plaines River	0.000	0.037	0.173	0.000
110 Springinguth Road, West Branch DuPage River	0.000	0.048	0.075	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Cu mg/L	Cr mg/L	Cr <sup>+6</sup> µg/L	Fe mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.006	0.003	0.500	1.138
103 Golf Road, West Fork North Branch Chicago River	0.002	0.002	0.727	0.573
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.002	0.000	0.853
104 Glenview Road, North Branch Chicago River	0.002	0.001	0.364	0.617
32 Lake-Cook Road, Skokie River	0.001	0.001	0.600	0.846
105 Frontage Road, Skokie River	0.002	0.001	0.364	0.584
34 Dempster Street, North Branch Chicago River	0.002	0.002	0.545	0.693
96 Albany Avenue, North Branch Chicago River	0.002	0.002	0.636	0.595
35 Central Street, North Shore Channel	0.000	0.001	0.333	0.209
102 Oakton Street, North Shore Channel	0.001	0.001	0.583	0.388
36 Touhy Avenue, North Shore Channel	0.002	0.001	1.083	0.158
101 Foster Avenue, North Shore Channel	0.003	0.001	0.583	0.185
37 Wilson Avenue, North Branch Chicago River	0.002	0.001	0.167	0.322
73 Diversey Parkway, North Branch Chicago River	0.002	0.001	0.333	0.373
46 Grand Avenue, North Branch Chicago River	0.003	0.003	0.545	0.552
74 Lake Shore Drive, Chicago River	0.003	0.002	0.909	0.161
100 Wells Street, Chicago River	0.004	0.003	1.000	0.172
39 Madison Street, South Branch Chicago River	0.005	0.004	0.545	0.527
108 Loomis Street, South Branch Chicago River	0.007	0.004	0.167	0.543
99 Archer Avenue, South Fork South Branch Chicago River	0.003	0.002	0.364	0.379
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.005	0.003	0.583	0.495
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.003	1.083	0.509
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.333	0.418
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.004	0.182	0.425
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.004	0.636	0.641
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.002	0.540	0.454
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.001	0.002	0.400	0.355
50 Burnham Avenue, Wolf Lake	0.000	0.001	0.545	0.165
55 130th Street, Calumet River	0.001	0.001	0.400	0.339
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.004	0.003	0.200	1.567
56 Indiana Avenue, Little Calumet River	0.005	0.003	0.500	0.701
76 Halsted Street, Little Calumet River	0.001	0.002	0.909	0.390
52 Wentworth Avenue, Little Calumet River	0.002	0.002	0.727	1.842
54 Joe Orr Road, Thorn Creek	0.000	0.001	0.200	0.489
97 170th Street, Thorn Creek	0.003	0.002	1.000	1.459
57 Ashland Avenue, Little Calumet River	0.004	0.004	0.364	1.423
58 Ashland Avenue, Calumet Sag Channel	0.001	0.003	0.727	0.757
59 Cicero Avenue, Calumet Sag Channel	0.001	0.002	0.273	0.830
43 Route 83, Calumet Sag Channel	0.001	0.002	0.273	0.706
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.001	0.001	0.000	0.672
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.006	0.001	0.417	0.363
64 Lake Street, West Branch DuPage River	0.005	0.002	0.750	0.879
79 Higgins Road, Salt Creek	0.002	0.002	0.200	1.286
80 Arlington Heights Road, Salt Creek	0.002	0.001	0.167	0.447
18 Devon Avenue, Salt Creek	0.002	0.001	0.417	0.533
24 Wolf Road, Salt Creek	0.005	0.002	0.182	1.071
109 Brookfield Avenue, Salt Creek	0.005	0.002	0.182	0.941
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.005	0.003	0.400	0.960
78 Wille Road, Higgins Creek	0.001	0.001	0.167	0.177
12 Lake-Cook Road, Buffalo Creek	0.002	0.002	0.333	1.261
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.833	0.863
17 Oakton Street, Des Plaines River	0.002	0.001	0.182	0.812
19 Belmont Avenue, Des Plaines River	0.002	0.002	0.000	0.883
20 Roosevelt Road, Des Plaines River	0.003	0.002	0.364	0.865
22 Ogden Avenue, Des Plaines River	0.004	0.002	0.364	1.081
23 Willow Springs Road, Des Plaines River	0.003	0.002	0.182	0.880
29 Stephen Street, Des Plaines River	0.003	0.002	0.000	0.849
91 Material Service Road, Des Plaines River	0.003	0.002	0.273	0.765
110 Springinsguth Road, West Branch DuPage River	0.002	0.001	0.600	1.348

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Pb mg/L	Ni mg/L	Mn mg/L	Hg µg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.005	0.003	0.075	0.015
103 Golf Road, West Fork North Branch Chicago River	0.005	0.001	0.074	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.006	0.001	0.148	0.000
104 Glenview Road, North Branch Chicago River	0.005	0.001	0.062	0.007
32 Lake-Cook Road, Skokie River	0.007	0.001	0.120	0.005
105 Frontage Road, Skokie River	0.006	0.001	0.055	0.008
34 Dempster Street, North Branch Chicago River	0.005	0.002	0.068	0.011
96 Albany Avenue, North Branch Chicago River	0.006	0.001	0.068	0.027
35 Central Street, North Shore Channel	0.002	0.000	0.015	0.000
102 Oakton Street, North Shore Channel	0.005	0.001	0.021	0.008
36 Touhy Avenue, North Shore Channel	0.004	0.001	0.019	0.000
101 Foster Avenue, North Shore Channel	0.004	0.002	0.020	0.008
37 Wilson Avenue, North Branch Chicago River	0.005	0.002	0.026	0.000
73 Diversey Parkway, North Branch Chicago River	0.005	0.002	0.029	0.000
46 Grand Avenue, North Branch Chicago River	0.008	0.004	0.054	0.017
74 Lake Shore Drive, Chicago River	0.008	0.001	0.018	0.015
100 Wells Street, Chicago River	0.006	0.002	0.024	0.012
39 Madison Street, South Branch Chicago River	0.010	0.012	0.030	0.013
108 Loomis Street, South Branch Chicago River	0.010	0.004	0.042	0.013
99 Archer Avenue, South Fork South Branch Chicago River	0.008	0.003	0.033	0.006
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.009	0.003	0.032	0.004
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.010	0.003	0.034	0.005
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.008	0.004	0.031	0.007
42 Route 83, Chicago Sanitary & Ship Canal	0.008	0.006	0.023	0.018
48 Stephen Street, Chicago Sanitary & Ship Canal	0.009	0.005	0.032	0.005
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.004	0.039	0.010
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.010	0.001	0.023	0.000
50 Burnham Avenue, Wolf Lake	0.007	0.000	0.081	0.010
55 130th Street, Calumet River	0.006	0.001	0.028	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.012	0.003	0.176	0.049
56 Indiana Avenue, Little Calumet River	0.027	0.004	0.046	0.000
76 Halsted Street, Little Calumet River	0.042	0.003	0.078	0.000
52 Wentworth Avenue, Little Calumet River	0.005	0.002	0.131	0.000
54 Joe Orr Road, Thorn Creek	0.004	0.001	0.066	0.000
97 170th Street, Thorn Creek	0.007	0.003	0.097	0.005
57 Ashland Avenue, Little Calumet River	0.007	0.004	0.114	0.012
58 Ashland Avenue, Calumet Sag Channel	0.007	0.003	0.061	0.007
59 Cicero Avenue, Calumet Sag Channel	0.006	0.003	0.056	0.000
43 Route 83, Calumet Sag Channel	0.006	0.003	0.057	0.005
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.003	0.000	0.080	0.019
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.004	0.002	0.036	0.007
64 Lake Street, West Branch DuPage River	0.004	0.003	0.073	0.015
79 Higgins Road, Salt Creek	0.005	0.002	0.110	0.012
80 Arlington Heights Road, Salt Creek	0.003	0.003	0.059	0.000
18 Devon Avenue, Salt Creek	0.003	0.003	0.057	0.006
24 Wolf Road, Salt Creek	0.006	0.004	0.065	0.013
109 Brookfield Avenue, Salt Creek	0.006	0.004	0.059	0.005
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.009	0.002	0.112	0.010
78 Wille Road, Higgins Creek	0.004	0.007	0.040	0.006
12 Lake-Cook Road, Buffalo Creek	0.006	0.002	0.142	0.007
13 Lake-Cook Road, Des Plaines River	0.005	0.002	0.067	0.006
17 Oakton Street, Des Plaines River	0.005	0.001	0.065	0.009
19 Belmont Avenue, Des Plaines River	0.005	0.003	0.060	0.000
20 Roosevelt Road, Des Plaines River	0.005	0.002	0.061	0.005
22 Ogden Avenue, Des Plaines River	0.006	0.003	0.076	0.006
23 Willow Springs Road, Des Plaines River	0.006	0.003	0.050	0.007
29 Stephen Street, Des Plaines River	0.005	0.003	0.055	0.013
91 Material Service Road, Des Plaines River	0.007	0.003	0.058	0.007
110 Springinguth Road, West Branch DuPage River	0.005	0.002	0.113	0.007



TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Hg— ng/L	Zn mg/L	Se mg/L	Sol. Ca mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2.4	0.030	0.000	70.9
103 Golf Road, West Fork North Branch Chicago River	3.6	0.022	0.000	72.2
31 Lake-Cook Road, Middle Fork North Branch	2.0	0.019	0.000	63.4
104 Glenview Road, North Branch Chicago River	1.8	0.039	0.000	61.4
32 Lake-Cook Road, Skokie River	2.8	0.021	0.000	72.8
105 Frontage Road, Skokie River	1.4	0.026	0.000	60.2
34 Dempster Street, North Branch Chicago River	2.9	0.021	0.000	62.6
96 Albany Avenue, North Branch Chicago River	3.4	0.023	0.000	64.7
35 Central Street, North Shore Channel	0.7	0.010	0.000	38.6
102 Oakton Street, North Shore Channel	2.7	0.030	0.000	47.0
36 Touhy Avenue, North Shore Channel	ND	0.038	0.000	53.7
101 Foster Avenue, North Shore Channel	ND	0.039	0.000	56.6
37 Wilson Avenue, North Branch Chicago River	ND	0.036	0.000	56.8
73 Diversey Parkway, North Branch Chicago River	ND	0.036	0.000	56.4
46 Grand Avenue, North Branch Chicago River	ND	0.040	0.000	56.4
74 Lake Shore Drive, Chicago River	1.4	0.030	0.000	40.6
100 Wells Street, Chicago River	1.6	0.026	0.000	44.5
39 Madison Street, South Branch Chicago River	ND	0.046	0.000	49.1
108 Loomis Street, South Branch Chicago River	ND	0.043	0.000	49.8
99 Archer Avenue, South Fork South Branch Chicago River	ND	0.032	0.000	49.4
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.043	0.000	50.4
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	0.046	0.000	50.9
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	0.046	0.000	53.0
42 Route 83, Chicago Sanitary & Ship Canal	ND	0.045	0.000	54.1
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.045	0.000	55.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	0.038	0.000	56.9
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.7	0.021	0.000	35.1
50 Burnham Avenue, Wolf Lake	0.2	0.047	0.000	34.7
55 130th Street, Calumet River	1.6	0.019	0.000	45.6
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	0.053	0.000	86.4
56 Indiana Avenue, Little Calumet River	ND	0.033	0.000	51.5
76 Halsted Street, Little Calumet River	ND	0.053	0.000	63.3
52 Wentworth Avenue, Little Calumet River	3.0	0.026	0.000	74.3
54 Joe Orr Road, Thorn Creek	2.8	0.050	0.000	74.9
97 170th Street, Thorn Creek	5.7	0.038	0.000	68.0
57 Ashland Avenue, Little Calumet River	4.2	0.035	0.000	66.1
58 Ashland Avenue, Calumet Sag Channel	ND	0.048	0.000	59.6
59 Cicero Avenue, Calumet Sag Channel	ND	0.032	0.000	58.3
43 Route 83, Calumet Sag Channel	ND	0.035	0.000	59.4
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	2.6	0.013	0.000	66.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	1.6	0.042	0.000	60.5
64 Lake Street, West Branch DuPage River	2.3	0.034	0.000	56.5
79 Higgins Road, Salt Creek	1.5	0.020	0.000	61.9
80 Arlington Heights Road, Salt Creek	0.5	0.036	0.000	61.6
18 Devon Avenue, Salt Creek	0.9	0.024	0.000	61.5
24 Wolf Road, Salt Creek	2.7	0.034	0.000	61.9
109 Brookfield Avenue, Salt Creek	2.5	0.032	0.000	60.7
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	2.2	0.035	0.000	40.9
78 Wille Road, Higgins Creek	0.7	0.047	0.000	68.0
12 Lake-Cook Road, Buffalo Creek	2.1	0.019	0.000	68.6
13 Lake-Cook Road, Des Plaines River	1.4	0.025	0.000	64.4
17 Oakton Street, Des Plaines River	1.7	0.023	0.000	62.6
19 Belmont Avenue, Des Plaines River	1.8	0.029	0.000	61.6
20 Roosevelt Road, Des Plaines River	2.0	0.031	0.000	60.4
22 Ogden Avenue, Des Plaines River	2.5	0.037	0.000	59.5
23 Willow Springs Road, Des Plaines River	2.4	0.028	0.000	59.4
29 Stephen Street, Des Plaines River	2.1	0.033	0.000	63.2
91 Material Service Road, Des Plaines River	2.6	0.027	0.000	62.4
110 Springinguth Road, West Branch DuPage River	1.4	0.036	0.000	77.6

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Sol. Mg mg/L	Sol. Ag mg/L	Sol. As mg/L	Sol. Ba mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	28.1	0.000	0.000	0.054
103 Golf Road, West Fork North Branch Chicago River	29.2	0.000	0.000	0.046
31 Lake-Cook Road, Middle Fork North Branch	28.9	0.000	0.001	0.037
104 Glenview Road, North Branch Chicago River	26.8	0.000	0.000	0.030
32 Lake-Cook Road, Skokie River	30.9	0.000	0.000	0.042
105 Frontage Road, Skokie River	26.0	0.000	0.000	0.027
34 Dempster Street, North Branch Chicago River	27.0	0.000	0.000	0.033
96 Albany Avenue, North Branch Chicago River	27.8	0.000	0.000	0.035
35 Central Street, North Shore Channel	13.3	0.000	0.000	0.022
102 Oakton Street, North Shore Channel	16.5	0.000	0.000	0.022
36 Touhy Avenue, North Shore Channel	19.2	0.000	0.000	0.022
101 Foster Avenue, North Shore Channel	20.1	0.000	0.000	0.023
37 Wilson Avenue, North Branch Chicago River	20.9	0.000	0.000	0.024
73 Diversey Parkway, North Branch Chicago River	20.9	0.000	0.000	0.023
46 Grand Avenue, North Branch Chicago River	20.8	0.000	0.000	0.023
74 Lake Shore Drive, Chicago River	14.3	0.000	0.000	0.022
100 Wells Street, Chicago River	15.7	0.000	0.000	0.022
39 Madison Street, South Branch Chicago River	17.8	0.000	0.000	0.022
108 Loomis Street, South Branch Chicago River	18.0	0.000	0.000	0.022
99 Archer Avenue, South Fork South Branch Chicago River	17.6	0.000	0.000	0.022
40 Damen Avenue, Chicago Sanitary & Ship Canal	18.1	0.000	0.000	0.022
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.4	0.000	0.000	0.022
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.0	0.000	0.000	0.019
42 Route 83, Chicago Sanitary & Ship Canal	19.7	0.000	0.000	0.017
48 Stephen Street, Chicago Sanitary & Ship Canal	20.6	0.000	0.000	0.018
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	21.0	0.000	0.000	0.019
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	11.7	0.000	0.000	0.020
50 Burnham Avenue, Wolf Lake	11.7	0.000	0.000	0.034
55 130th Street, Calumet River	15.7	0.000	0.000	0.030
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	38.6	0.000	0.000	0.022
56 Indiana Avenue, Little Calumet River	19.1	0.000	0.000	0.029
76 Halsted Street, Little Calumet River	22.3	0.000	0.000	0.021
52 Wentworth Avenue, Little Calumet River	29.7	0.000	0.000	0.029
54 Joe Orr Road, Thorn Creek	29.6	0.000	0.000	0.025
97 170th Street, Thorn Creek	27.3	0.000	0.000	0.028
57 Ashland Avenue, Little Calumet River	25.9	0.000	0.000	0.029
58 Ashland Avenue, Calumet Sag Channel	21.5	0.000	0.000	0.022
59 Cicero Avenue, Calumet Sag Channel	20.9	0.000	0.000	0.021
43 Route 83, Calumet Sag Channel	21.9	0.000	0.000	0.023
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	30.1	0.000	0.000	0.071
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	23.0	0.000	0.000	0.027
64 Lake Street, West Branch DuPage River	21.8	0.000	0.000	0.026
79 Higgins Road, Salt Creek	26.0	0.000	0.000	0.039
80 Arlington Heights Road, Salt Creek	24.3	0.000	0.000	0.024
18 Devon Avenue, Salt Creek	24.3	0.000	0.000	0.024
24 Wolf Road, Salt Creek	25.3	0.000	0.000	0.029
109 Brookfield Avenue, Salt Creek	24.8	0.000	0.000	0.029
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	13.9	0.000	0.000	0.036
78 Wille Road, Higgins Creek	25.3	0.000	0.000	0.022
12 Lake-Cook Road, Buffalo Creek	30.2	0.000	0.000	0.039
13 Lake-Cook Road, Des Plaines River	29.4	0.000	0.000	0.034
17 Oakton Street, Des Plaines River	28.5	0.000	0.000	0.035
19 Belmont Avenue, Des Plaines River	27.3	0.000	0.000	0.033
20 Roosevelt Road, Des Plaines River	27.0	0.000	0.000	0.033
22 Ogden Avenue, Des Plaines River	25.8	0.000	0.000	0.031
23 Willow Springs Road, Des Plaines River	26.1	0.000	0.000	0.031
29 Stephen Street, Des Plaines River	27.8	0.000	0.000	0.032
91 Material Service Road, Des Plaines River	27.5	0.000	0.000	0.032
110 Springinguth Road, West Branch DuPage River	28.5	0.000	0.000	0.043

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Sol. B mg/L	Sol. Cd mg/L	Sol. Cu mg/L	Sol. Cr mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.143	0.000	0.004	0.001
103 Golf Road, West Fork North Branch Chicago River	0.149	0.000	0.001	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.110	0.000	0.000	0.001
104 Glenview Road, North Branch Chicago River	0.141	0.000	0.000	0.001
32 Lake-Cook Road, Skokie River	0.115	0.000	0.000	0.001
105 Frontage Road, Skokie River	0.150	0.000	0.000	0.001
34 Dempster Street, North Branch Chicago River	0.139	0.000	0.000	0.001
96 Albany Avenue, North Branch Chicago River	0.139	0.000	0.001	0.001
35 Central Street, North Shore Channel	0.035	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.088	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.186	0.000	0.001	0.001
101 Foster Avenue, North Shore Channel	0.183	0.000	0.001	0.001
37 Wilson Avenue, North Branch Chicago River	0.160	0.000	0.001	0.001
73 Diversey Parkway, North Branch Chicago River	0.166	0.000	0.001	0.001
46 Grand Avenue, North Branch Chicago River	0.155	0.000	0.000	0.001
74 Lake Shore Drive, Chicago River	0.057	0.000	0.001	0.001
100 Wells Street, Chicago River	0.070	0.000	0.002	0.001
39 Madison Street, South Branch Chicago River	0.107	0.000	0.000	0.001
108 Loomis Street, South Branch Chicago River	0.110	0.000	0.002	0.001
99 Archer Avenue, South Fork South Branch Chicago River	0.114	0.000	0.000	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.108	0.000	0.001	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.119	0.000	0.001	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.168	0.000	0.000	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.212	0.000	0.000	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.196	0.000	0.000	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.198	0.000	0.000	0.001
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.042	0.000	0.000	0.001
50 Burnham Avenue, Wolf Lake	0.169	0.000	0.000	0.000
55 130th Street, Calumet River	0.152	0.000	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.528	0.000	0.000	0.001
56 Indiana Avenue, Little Calumet River	0.167	0.000	0.001	0.001
76 Halsted Street, Little Calumet River	0.195	0.001	0.000	0.001
52 Wentworth Avenue, Little Calumet River	0.228	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.314	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.222	0.000	0.000	0.001
57 Ashland Avenue, Little Calumet River	0.200	0.001	0.000	0.001
58 Ashland Avenue, Calumet Sag Channel	0.174	0.000	0.000	0.001
59 Cicero Avenue, Calumet Sag Channel	0.167	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.168	0.000	0.000	0.000
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.055	0.000	0.000	0.001
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.248	0.000	0.004	0.001
64 Lake Street, West Branch DuPage River	0.188	0.000	0.003	0.001
79 Higgins Road, Salt Creek	0.084	0.000	0.001	0.001
80 Arlington Heights Road, Salt Creek	0.196	0.000	0.002	0.000
18 Devon Avenue, Salt Creek	0.199	0.000	0.001	0.000
24 Wolf Road, Salt Creek	0.183	0.000	0.002	0.001
109 Brookfield Avenue, Salt Creek	0.181	0.000	0.002	0.001
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.089	0.000	0.001	0.001
78 Wille Road, Higgins Creek	0.254	0.000	0.000	0.001
12 Lake-Cook Road, Buffalo Creek	0.093	0.000	0.000	0.001
13 Lake-Cook Road, Des Plaines River	0.153	0.000	0.000	0.001
17 Oakton Street, Des Plaines River	0.138	0.000	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.152	0.000	0.000	0.001
20 Roosevelt Road, Des Plaines River	0.152	0.000	0.000	0.001
22 Ogden Avenue, Des Plaines River	0.156	0.000	0.001	0.001
23 Willow Springs Road, Des Plaines River	0.158	0.000	0.000	0.001
29 Stephen Street, Des Plaines River	0.167	0.000	0.000	0.001
91 Material Service Road, Des Plaines River	0.170	0.000	0.001	0.001
110 Springinguth Road, West Branch DuPage River	0.076	0.000	0.000	0.001

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Sol. Fe mg/L	Sol. Pb mg/L	Sol. Ni mg/L	Sol. Mn mg/L
<b>Chicago River System</b>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.055	0.004	0.001	0.056
103 Golf Road, West Fork North Branch Chicago River	0.024	0.002	0.000	0.044
31 Lake-Cook Road, Middle Fork North Branch	0.081	0.002	0.000	0.124
104 Glenview Road, North Branch Chicago River	0.037	0.002	0.000	0.038
32 Lake-Cook Road, Skokie River	0.060	0.001	0.000	0.097
105 Frontage Road, Skokie River	0.047	0.002	0.000	0.021
34 Dempster Street, North Branch Chicago River	0.042	0.002	0.000	0.047
96 Albany Avenue, North Branch Chicago River	0.032	0.002	0.001	0.033
35 Central Street, North Shore Channel	0.015	0.001	0.000	0.009
102 Oakton Street, North Shore Channel	0.026	0.001	0.001	0.013
36 Touhy Avenue, North Shore Channel	0.028	0.002	0.001	0.013
101 Foster Avenue, North Shore Channel	0.035	0.002	0.001	0.015
37 Wilson Avenue, North Branch Chicago River	0.034	0.002	0.001	0.019
73 Diversey Parkway, North Branch Chicago River	0.039	0.002	0.001	0.024
46 Grand Avenue, North Branch Chicago River	0.038	0.002	0.002	0.039
74 Lake Shore Drive, Chicago River	0.014	0.001	0.001	0.010
100 Wells Street, Chicago River	0.017	0.002	0.001	0.019
39 Madison Street, South Branch Chicago River	0.024	0.002	0.001	0.024
108 Loomis Street, South Branch Chicago River	0.024	0.002	0.002	0.032
99 Archer Avenue, South Fork South Branch Chicago River	0.025	0.001	0.002	0.025
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.024	0.001	0.001	0.024
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.002	0.002	0.020
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.027	0.001	0.003	0.018
42 Route 83, Chicago Sanitary & Ship Canal	0.028	0.001	0.005	0.016
48 Stephen Street, Chicago Sanitary & Ship Canal	0.030	0.001	0.004	0.021
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.028	0.002	0.004	0.030
<b>Calumet River System</b>				
49 Ewing Avenue, Calumet River	0.006	0.001	0.001	0.010
50 Burnham Avenue, Wolf Lake	0.024	0.001	0.000	0.008
55 130th Street, Calumet River	0.016	0.001	0.000	0.013
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.128	0.002	0.001	0.131
56 Indiana Avenue, Little Calumet River	0.009	0.001	0.002	0.019
76 Halsted Street, Little Calumet River	0.030	0.001	0.001	0.035
52 Wentworth Avenue, Little Calumet River	0.072	0.001	0.000	0.096
54 Joe Orr Road, Thorn Creek	0.063	0.002	0.000	0.057
97 170th Street, Thorn Creek	0.051	0.002	0.001	0.058
57 Ashland Avenue, Little Calumet River	0.062	0.001	0.001	0.081
58 Ashland Avenue, Calumet Sag Channel	0.040	0.001	0.001	0.038
59 Cicero Avenue, Calumet Sag Channel	0.051	0.001	0.001	0.041
43 Route 83, Calumet Sag Channel	0.073	0.001	0.002	0.042
<b>Des Plaines River System</b>				
90 Route 19, Poplar Creek	0.054	0.001	0.000	0.050
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.061	0.002	0.002	0.026
64 Lake Street, West Branch DuPage River	0.037	0.002	0.002	0.035
79 Higgins Road, Salt Creek	0.041	0.002	0.000	0.033
80 Arlington Heights Road, Salt Creek	0.048	0.003	0.002	0.031
18 Devon Avenue, Salt Creek	0.044	0.002	0.002	0.030
24 Wolf Road, Salt Creek	0.036	0.001	0.002	0.032
109 Brookfield Avenue, Salt Creek	0.037	0.002	0.002	0.036
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.059	0.002	0.001	0.067
78 Wille Road, Higgins Creek	0.044	0.001	0.006	0.028
12 Lake-Cook Road, Buffalo Creek	0.036	0.003	0.000	0.047
13 Lake-Cook Road, Des Plaines River	0.055	0.002	0.001	0.030
17 Oakton Street, Des Plaines River	0.047	0.001	0.001	0.030
19 Belmont Avenue, Des Plaines River	0.064	0.002	0.001	0.032
20 Roosevelt Road, Des Plaines River	0.052	0.001	0.001	0.028
22 Ogden Avenue, Des Plaines River	0.046	0.002	0.001	0.028
23 Willow Springs Road, Des Plaines River	0.051	0.003	0.001	0.028
29 Stephen Street, Des Plaines River	0.035	0.002	0.002	0.027
91 Material Service Road, Des Plaines River	0.032	0.002	0.001	0.019
110 Springinguth Road, West Branch DuPage River	0.217	0.002	0.000	0.093

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2007

Sampling Station No. Name	Sol. Hg $\mu\text{g/L}$	Sol. Zn mg/L	Sol. Se mg/L
<b>Chicago River System</b>			
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	0.028	0.000
103 Golf Road, West Fork North Branch Chicago River	ND	0.016	0.000
31 Lake-Cook Road, Middle Fork North Branch	ND	0.011	0.000
104 Glenview Road, North Branch Chicago River	ND	0.017	0.000
32 Lake-Cook Road, Skokie River	ND	0.011	0.000
105 Frontage Road, Skokie River	ND	0.019	0.000
34 Dempster Street, North Branch Chicago River	ND	0.017	0.000
96 Albany Avenue, North Branch Chicago River	ND	0.016	0.002
35 Central Street, North Shore Channel	ND	0.010	0.000
102 Oakton Street, North Shore Channel	ND	0.022	0.002
36 Touhy Avenue, North Shore Channel	ND	0.037	0.002
101 Foster Avenue, North Shore Channel	ND	0.037	0.000
37 Wilson Avenue, North Branch Chicago River	ND	0.032	0.002
73 Diversey Parkway, North Branch Chicago River	ND	0.031	0.000
46 Grand Avenue, North Branch Chicago River	ND	0.029	0.000
74 Lake Shore Drive, Chicago River	ND	0.016	0.000
100 Wells Street, Chicago River	ND	0.018	0.000
39 Madison Street, South Branch Chicago River	ND	0.021	0.000
108 Loomis Street, South Branch Chicago River	ND	0.025	0.000
99 Archer Avenue, South Fork South Branch Chicago River	ND	0.021	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.026	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	0.029	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	0.030	0.000
42 Route 83, Chicago Sanitary & Ship Canal	ND	0.029	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.027	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	0.026	0.000
<b>Calumet River System</b>			
49 Ewing Avenue, Calumet River	ND	0.009	0.000
50 Burnham Avenue, Wolf Lake	ND	0.010	0.000
55 130th Street, Calumet River	ND	0.012	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	0.019	0.000
56 Indiana Avenue, Little Calumet River	ND	0.017	0.000
76 Halsted Street, Little Calumet River	ND	0.029	0.000
52 Wentworth Avenue, Little Calumet River	ND	0.013	0.000
54 Joe Orr Road, Thorn Creek	ND	0.041	0.000
97 170th Street, Thorn Creek	ND	0.019	0.000
57 Ashland Avenue, Little Calumet River	ND	0.016	0.000
58 Ashland Avenue, Calumet Sag Channel	ND	0.028	0.000
59 Cicero Avenue, Calumet Sag Channel	ND	0.021	0.000
43 Route 83, Calumet Sag Channel	ND	0.024	0.000
<b>Des Plaines River System</b>			
90 Route 19, Poplar Creek	0.000	0.010	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	0.040	0.000
64 Lake Street, West Branch DuPage River	ND	0.030	0.002
79 Higgins Road, Salt Creek	ND	0.009	0.000
80 Arlington Heights Road, Salt Creek	ND	0.023	0.000
18 Devon Avenue, Salt Creek	ND	0.020	0.000
24 Wolf Road, Salt Creek	ND	0.021	0.000
109 Brookfield Avenue, Salt Creek	ND	0.022	0.000
21 First Avenue, Salt Creek	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	0.011	0.000
78 Wille Road, Higgins Creek	ND	0.040	0.000
12 Lake-Cook Road, Buffalo Creek	ND	0.008	0.000
13 Lake-Cook Road, Des Plaines River	ND	0.015	0.000
17 Oakton Street, Des Plaines River	ND	0.013	0.002
19 Belmont Avenue, Des Plaines River	ND	0.018	0.000
20 Roosevelt Road, Des Plaines River	ND	0.017	0.000
22 Ogden Avenue, Des Plaines River	ND	0.021	0.002
23 Willow Springs Road, Des Plaines River	ND	0.019	0.000
29 Stephen Street, Des Plaines River	ND	0.021	0.000
91 Material Service Road, Des Plaines River	ND	0.018	0.000
110 Springinsguth Road, West Branch DuPage River	ND	0.019	0.000

ND = No Data

<sup>1</sup>Un-ionized Ammonia<sup>2</sup>Geometric Mean

**TABLE AII-2: DISSOLVED OXYGEN VIOLATION HISTORY  
2000 THROUGH 2007**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	1/6	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	3/11	0/12	2/10	1/10	3/8	2/11	4/10	ND
31 Lake-Cook Road, Middle Fork North Branch	4/10	2/11	6/10	5/10	5/9	3/10	4/11	4/10
104 Glenview Road, North Branch Chicago River	4/11	0/12	1/12	1/12	0/3	0/9	1/10	ND
32 Lake-Cook Road, Skokie River	3/10	1/12	2/11	2/10	2/9	2/10	3/11	3/10
105 Frontage Road, Skokie River	1/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	4/11	1/12	3/11	0/12	1/11	2/12	2/12	1/11
96 Albany Avenue, North Branch Chicago River	1/11	0/12	1/11	0/11	1/10	1/12	1/12	1/6
35 Central Street, North Shore Channel	0/9	1/9	2/8	1/9	1/9	1/9	0/9	1/8
102 Oakton Street, North Shore Channel	2/12	0/12	0/12	2/12	1/10	0/11	3/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/11	0/12	0/13	0/12	0/12	0/12	0/10	ND
37 Wilson Avenue, North Branch Chicago River	1/12	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	1/12	0/12	0/12	0/12	0/12	1/12
46 Grand Avenue, North Branch Chicago River	0/11	0/11	1/12	0/12	0/12	1/12	0/12	0/12
74 Lake Shore Drive, Chicago River	1/11	0/11	0/10	0/9	1/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	1/11	1/7	1/11	2/12	2/12	6/12	6/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1/12	0/12	0/12	1/12	0/12	ND	ND	2/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1/12	1/13	1/12	1/12	3/12	2/12	1/12	2/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	1/13	0/11	0/12	1/12	1/12	2/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	1/11	1/13	0/11	0/12	0/12	0/12	2/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4/51	3/53	5/52	3/50	5/51	11/50	9/54	8/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/21	0/23	0/24
50 Burnham Avenue, Wolf Lake	2/11	0/11	1/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	1/11	0/11	0/11	0/10	0/21	0/21	1/23
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4/10	4/11	4/10	5/9	7/10	4/11	6/10	4/11
56 Indiana Avenue, Little Calumet River	0/8	0/11	0/9	0/9	0/11	0/21	0/17	0/23
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/21	0/23	1/24
52 Wentworth Avenue, Little Calumet River	4/11	0/11	5/11	3/9	3/10	4/11	5/11	5/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	2/8	0/6	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	1/11	1/11	0/11	1/10	0/12	2/10	ND
57 Ashland Avenue, Little Calumet River	4/11	0/11	5/11	4/10	6/10	3/12	5/10	4/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/21	0/23	1/24
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/20	0/23	0/24
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/21	1/22	0/23
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/10	0/10	0/10	1/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/10	0/11	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	1/11	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	1/10	1/9	3/9	0/10	2/9	1/8	1/10	4/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/11	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/11	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	1/10	0/12	1/12	1/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	2/12	1/12	0/10	0/10	2/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	1/12	1/10
77 Elmhurst Road, Higgins Creek	0/5	1/7	0/4	0/3	0/5	1/6	0/11	1/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	1/9	0/7	0/6	1/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	1/12	1/12	0/12	0/10	1/12	1/12	0/12	0/12
17 Oakton Street, Des Plaines River	2/11	1/12	2/12	0/10	1/10	1/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	2/11	1/12	3/12	3/10	2/12	4/12	1/12	2/10
20 Roosevelt Road, Des Plaines River	2/11	1/12	2/12	3/10	1/7	3/12	1/12	2/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/10	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	1/12	0/10	0/10	2/10	0/12	1/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/10	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	1/10	0/12	0/12	1/52	0/49
110 Springingsuth Road, West Branch DuPage River	6/10	5/11	4/11	5/9	ND	ND	ND	ND

ND = No Data

TABLE AII-3: TEMPERATURE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/5	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	1/12	0/10	0/10	0/8	0/9	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/8	0/7	0/11	0/9
104 Glenview Road, North Branch Chicago River	0/11	0/12	1/12	0/12	0/3	0/7	0/10	ND
32 Lake-Cook Road, Skokie River	0/9	0/12	1/11	0/10	0/8	0/7	0/11	0/9
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/11	0/10	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/10	0/12	0/10
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/11	0/12	0/6
35 Central Street, North Shore Channel	0/9	1/9	0/8	0/9	0/9	0/7	0/9	0/8
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/11	0/10	0/10	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/11	0/11	0/10	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/11	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/11	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/11	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/11	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/11	0/11	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/11	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	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	0/53	0/51	0/50	0/50	0/46	0/54	0/48
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/9	0/11	0/11	0/10	0/12	0/10	0/13	0/11
50 Burnham Avenue, Wolf Lake	0/10	0/11	0/12	0/12	1/12	0/10	0/10	0/11
55 130th Street, Calumet River	0/9	0/11	0/11	0/11	0/10	0/10	0/13	0/10
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/9	0/11	0/10	0/9	0/10	0/9	0/9	0/10
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/10	0/11
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/14	0/11
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	1/10	0/11	0/11	0/10
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/11
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	1/10	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	1/10	0/11	0/10	0/10
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/11	0/14	0/11
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/9	0/14	0/11
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	1/10	0/11	0/10	0/14	0/11
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/8	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/10	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/11	0/11	0/12	0/12	0/11	0/10
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/7	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	1/12	0/9	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	1/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/11	0/11	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/9	0/4	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	1/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/11	0/11	0/12	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/6	0/7	0/8	0/6	1/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/11	0/11	0/12	0/10	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/11	0/11	0/10	0/10	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/11	1/11	0/12	0/10	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/11	0/7	0/10	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/10	0/5	0/10	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/10	0/10	0/9	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/10	0/11	0/11	0/12	0/9
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/10	0/12	0/11	1/52	0/48
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-4: pH VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/5	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/9	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/8	0/7	0/11	0/9
104 Glenview Road, North Branch Chicago River	0/11	0/12	2/12	0/12	0/3	0/7	0/10	ND
32 Lake-Cook Road, Skokie River	0/9	0/12	2/11	0/10	0/7	0/7	0/11	0/9
105 Frontage Road, Skokie River	0/11	0/12	2/12	0/12	0/11	0/10	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/10	0/12	0/10
96 Albany Avenue, North Branch Chicago River	0/11	0/11	2/11	0/11	0/10	0/11	1/12	0/6
35 Central Street, North Shore Channel	0/9	0/8	0/8	0/9	1/9	0/6	0/9	0/8
102 Oakton Street, North Shore Channel	0/12	0/11	1/12	0/11	1/10	0/10	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/11	0/12	0/12	0/12	0/11	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/11	0/13	0/12	0/11	0/11	0/10	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	1/12
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	1/10	0/12	0/11	0/12
100 Wells Street, Chicago River	0/11	0/12	1/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/11	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/11	1/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/11	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/11	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/11	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/50	1/52	1/51	0/50	0/52	0/46	2/52	2/48
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	1/10	0/12	0/10	0/14	1/11
50 Burnham Avenue, Wolf Lake	1/11	2/11	0/12	0/12	0/12	0/10	0/11	1/10
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	1/10	0/12	0/9
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/9	0/10	0/9
56 Indiana Avenue, Little Calumet River	0/9	0/11	1/9	0/9	0/11	0/12	0/10	1/10
76 Halsted Street, Little Calumet River	0/11	0/11	1/12	0/12	0/11	0/12	0/14	0/12
52 Wentworth Avenue, Little Calumet River	0/11	1/11	1/10	0/9	0/10	0/11	0/11	0/9
54 Joe Orr Road, Thorn Creek	1/10	0/9	0/8	0/6	0/3	0/7	0/12	1/12
97 170th Street, Thorn Creek	0/11	0/11	1/11	0/11	0/10	0/12	1/9	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	2/11	0/10	0/10	0/11	0/10	1/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	1/12	0/12	0/12	0/11	0/14	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	1/12	0/12	0/11	0/10	0/14	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/10	0/14	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	1/12	0/11	0/11	0/10	0/8	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	1/12	0/12	0/10	0/11	0/12	0/12	1/12
64 Lake Street, West Branch DuPage River	0/12	1/12	0/11	0/11	0/12	0/12	0/11	1/10
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/7	0/10	1/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/9	0/12	1/12
18 Devon Avenue, Salt Creek	0/12	1/12	0/12	0/12	0/12	0/10	1/12	1/12
24 Wolf Road, Salt Creek	0/11	2/12	0/12	0/11	0/11	0/11	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	2/12	0/12	0/11	0/9	0/4	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	1/11	0/11	0/12	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	1/9	0/6	0/7	0/8	0/6	0/11	3/10
13 Lake-Cook Road, Des Plaines River	1/12	0/12	2/11	0/11	0/12	1/10	0/12	1/12
17 Oakton Street, Des Plaines River	0/11	0/12	1/11	0/11	0/10	0/10	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	1/11	0/11	0/12	0/10	0/11	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	1/11	0/11	0/7	0/10	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	2/12	0/12	0/10	0/5	1/10	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	1/12	0/12	0/10	0/10	0/9	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	1/12	0/12	0/10	0/11	0/11	0/12	0/9
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/10	0/12	0/11	3/50	2/48
110 Springinguth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data



TABLE AII-5: CHLORIDE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1/2	1/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	1/5	2/4	3/8	0/3	1/6	1/5	ND
103 Golf Road, West Fork North Branch Chicago River	2/10	2/12	5/10	0/9	1/8	1/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	1/11	0/10	0/9	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	1/11	1/12	1/12	1/11	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	2/11	0/9	0/9	0/10	0/11	2/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/11	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	1/11	1/12	2/11	1/11	0/11	0/12	1/12	1/11
96 Albany Avenue, North Branch Chicago River	1/11	2/12	1/11	0/10	0/10	1/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/8	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/11	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	1/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/10	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/12	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	1/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	1/11	2/12	1/11	0/11	0/10	1/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	1/12	0/12	1/11	1/11	1/12	0/12	0/12
64 Lake Street, West Branch DuPage River	1/12	0/12	0/12	1/12	0/12	1/12	1/11	0/11
79 Higgins Road, Salt Creek	2/10	1/9	2/9	2/11	1/9	1/8	3/10	2/10
80 Arlington Heights Road, Salt Creek	1/12	2/12	2/12	1/12	1/12	0/10	0/12	1/12
18 Devon Avenue, Salt Creek	1/12	2/12	2/12	1/12	1/12	0/10	1/12	1/12
24 Wolf Road, Salt Creek	1/11	0/12	1/12	1/11	2/12	1/12	1/12	1/10
109 Brookfield Avenue, Salt Creek	1/11	1/12	1/12	1/11	1/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	1/3	1/12	1/10
77 Elmhurst Road, Higgins Creek	0/5	2/7	2/4	3/6	1/5	2/6	3/11	2/10
78 Wille Road, Higgins Creek	1/12	0/12	1/12	0/11	1/12	1/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	1/9	0/9	1/7	0/7	1/8	0/7	2/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	1/12	1/12	0/11	0/10	1/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	2/12	0/12	0/11	1/12	1/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	2/12	1/12	0/11	0/7	2/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	1/12	1/12	0/11	0/5	2/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	2/11	1/12	1/12	0/11	0/10	1/10	0/12	0/10
29 Stephen Street, Des Plaines River	1/11	1/12	1/12	1/11	0/11	2/12	0/12	0/10
91 Material Service Road, Des Plaines River	1/11	1/12	1/12	1/11	0/12	1/12	2/52	2/50
110 Springingsuth Road, West Branch DuPage River	1/10	2/11	3/11	1/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-6: AMMONIUM NITROGEN VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/12	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/52	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-7: UN-IONIZED AMMONIA VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/5	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/7	0/11	0/9
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/7	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/7	0/11	0/9
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/10	0/12	0/10
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/6	0/9	0/8
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/10	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/11	0/12	0/12	0/12	0/11	0/12	1/12
101 Foster Avenue, North Shore Channel	0/12	0/11	0/13	0/12	0/11	0/11	0/10	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	1/12	0/12	0/11	0/12	1/12
73 Diversey Parkway, North Branch Chicago River	0/12	1/12	0/12	0/12	0/12	0/11	0/12	1/12
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/11	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/11	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/11	1/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/11	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	1/12	0/12	0/11	1/11	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/11	0/11	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/50	0/52	0/51	0/49	0/50	0/46	0/52	1/48
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/10	0/11	0/11
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/10	0/10	0/10
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/10	0/10	0/9
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/9	0/11	0/10	0/9	1/10	1/9	0/9	2/9
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/8	0/11	0/12	0/8	1/10
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/11
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/9
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/11
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/9	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/10	0/10
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/11	0/12	0/11
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/9	0/12	0/11
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/10	0/12	0/11
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/8	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	1/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	1/10
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/7	0/10	1/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/9	0/12	1/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	1/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/11	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/3	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/11	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/9	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/9
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/50	0/48
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-8: TOTAL DISSOLVED SOLIDS VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1/2	1/1
106 Dundee Road, West Fork North Branch Chicago River	1/4	2/5	2/4	4/8	0/3	3/6	1/5	ND
103 Golf Road, West Fork North Branch Chicago River	5/11	4/12	6/10	3/10	1/8	3/11	1/10	ND
31 Lake-Cook Road, Middle Fork North Branch	3/10	1/11	3/10	0/10	1/9	0/10	0/11	3/10
104 Glenview Road, North Branch Chicago River	1/11	1/12	1/12	1/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	3/10	0/12	5/11	0/10	1/9	0/10	2/11	4/10
105 Frontage Road, Skokie River	1/11	0/12	0/12	0/12	0/12	1/12	0/10	ND
34 Dempster Street, North Branch Chicago River	1/11	2/12	3/11	1/12	2/11	1/12	2/12	4/11
96 Albany Avenue, North Branch Chicago River	2/11	2/12	4/11	0/11	0/10	1/12	2/12	1/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	1/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	2/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
37 Wilson Avenue, North Branch Chicago River	2/12	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	1/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	1/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	1/52	0/52	0/52	0/50	1/53	1/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	3/10	1/11	0/11	3/11
54 Joe Orr Road, Thorn Creek	9/10	9/9	5/8	6/7	1/3	7/7	10/12	6/12
97 170th Street, Thorn Creek	4/11	5/11	9/11	6/11	7/10	9/12	2/10	ND
57 Ashland Avenue, Little Calumet River	2/11	3/11	2/11	4/10	5/10	4/12	2/10	6/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	1/11	3/12	3/11	1/11	1/10	1/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	1/4	1/9
89 Walnut Lane, West Branch DuPage River	1/12	1/12	0/12	2/11	2/11	1/12	1/12	0/12
64 Lake Street, West Branch DuPage River	1/12	0/12	1/12	1/12	1/12	1/12	1/11	0/11
79 Higgins Road, Salt Creek	5/10	1/9	4/9	5/11	1/9	1/8	3/10	3/10
80 Arlington Heights Road, Salt Creek	2/12	2/12	2/12	1/12	1/12	1/10	2/12	1/12
18 Devon Avenue, Salt Creek	2/12	3/12	4/12	1/12	1/12	0/10	1/12	2/12
24 Wolf Road, Salt Creek	1/11	2/12	3/12	1/11	2/12	2/12	2/12	2/10
109 Brookfield Avenue, Salt Creek	2/11	3/12	3/12	1/11	1/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	3/3	2/12	2/10
77 Elmhurst Road, Higgins Creek	0/5	2/7	2/4	3/6	1/5	2/6	3/11	3/10
78 Wille Road, Higgins Creek	2/12	2/12	1/12	0/11	1/12	2/12	1/12	2/12
12 Lake-Cook Road, Buffalo Creek	1/9	2/9	5/7	1/7	1/8	0/7	2/11	2/10
13 Lake-Cook Road, Des Plaines River	0/12	1/12	1/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	2/12	1/12	0/11	0/10	1/11	1/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	2/12	1/12	2/11	1/12	2/12	1/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	2/12	1/12	1/11	0/7	2/12	1/12	0/10
22 Ogden Avenue, Des Plaines River	2/11	2/12	1/12	1/11	0/5	2/12	1/12	1/10
23 Willow Springs Road, Des Plaines River	2/11	1/12	2/12	1/11	1/10	1/10	1/12	0/10
29 Stephen Street, Des Plaines River	1/11	1/12	2/12	1/11	0/11	2/12	1/12	1/10
91 Material Service Road, Des Plaines River	1/11	1/12	2/12	1/11	0/12	1/12	4/52	7/50
110 Springingsuth Road, West Branch DuPage River	3/10	3/11	6/11	5/10	ND	ND	ND	ND

ND = No Data

TABLE AII-9: PHENOLS VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/50	0/54	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/12	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/10	0/11	0/12	0/12	0/11
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/11	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/52	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-10: SULFATE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/11	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	4/10	6/8	4/8	5/7	1/3	6/7	8/12	2/12
97 170th Street, Thorn Creek	3/11	3/10	4/11	4/11	6/10	6/12	0/10	ND
57 Ashland Avenue, Little Calumet River	1/11	0/11	1/11	0/10	1/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/11	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/52	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-11: FATS, OILS, AND GREASES VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	ND	ND	ND
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	ND	ND	ND
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	ND	ND	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/10	0/11	0/12	0/12	0/12	0/12	0/10	ND
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/9	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/10	ND
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	2/10	ND
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	0/12	0/10	ND
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	1/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/11	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/11	0/12	0/10	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/10	ND
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	1/12	0/11	0/12	0/10	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	1/12	0/11	0/12	0/10	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	0/53	0/52	0/52	2/49	0/50	1/45	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	ND	ND	ND
55 130th Street, Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	1/10	0/11	0/9	ND
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	ND
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/10	ND
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	ND	ND	ND
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	ND	ND	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/10	ND
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/10	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	ND	ND	ND
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-12: TOTAL CYANIDE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	ND	ND	ND
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	ND	ND	ND
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	ND	ND	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	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	0/53	0/52	0/52	0/52	0/50	0/54	0/48
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	ND	ND	ND
55 130th Street, Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	ND	ND	ND
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	ND	ND	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/10	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	ND	ND	ND
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data



TABLE AII-13: WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/10	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/11	0/12	0/11
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	1/11
54 Joe Orr Road, Thorn Creek	0/10	0/8	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/12	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/11
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/10
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/9
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/11
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/11
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/9
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/12	0/9
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/9
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/9
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/11	0/12	0/11
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/9
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/11	0/12	0/9
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/11	0/12	0/9
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/9
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/9
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/9
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/52	0/48
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-14: FLUORIDE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/50	0/54	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/11
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	8/11	9/11	7/11	4/9	6/10	10/11	11/11	7/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	1/12	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	2/11	3/11	2/10	2/10	8/12	4/10	5/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	1/12	0/12	0/12	0/11	1/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/52	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-15: FECAL COLIFORM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	2/2	1/1
106 Dundee Road, West Fork North Branch Chicago River	3/4	4/5	3/4	8/8	3/3	5/6	5/5	ND
103 Golf Road, West Fork North Branch Chicago River	8/11	8/12	8/10	7/10	8/8	9/11	9/10	ND
31 Lake-Cook Road, Middle Fork North Branch	7/10	10/11	5/10	7/10	6/9	9/10	10/11	7/10
104 Glenview Road, North Branch Chicago River	7/11	7/12	9/12	11/12	2/3	7/9	7/10	ND
32 Lake-Cook Road, Skokie River	10/10	5/12	7/11	9/10	7/9	6/10	11/11	8/10
105 Frontage Road, Skokie River	1/11	1/12	2/12	1/12	5/12	5/12	6/10	ND
34 Dempster Street, North Branch Chicago River	7/11	11/12	9/11	11/12	10/11	11/12	10/12	11/11
96 Albany Avenue, North Branch Chicago River	6/11	10/12	9/11	9/11	10/10	11/12	12/12	6/6
35 Central Street, North Shore Channel	1/9	2/9	1/8	5/9	3/9	6/9	5/9	5/9
102 Oakton Street, North Shore Channel	8/12	9/12	7/12	9/12	6/10	8/11	7/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	2/11	0/11	2/10	1/9	2/10	0/12	1/12	2/12
100 Wells Street, Chicago River	2/11	3/12	3/12	2/12	4/12	2/12	4/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	2/11	0/11	2/12	1/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	1/10	1/11	0/11	0/11	2/10	0/12	3/11	2/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	10/11	10/11	10/11	8/9	9/10	10/11	11/11	10/11
54 Joe Orr Road, Thorn Creek	8/10	9/9	8/8	5/7	2/3	4/7	10/12	9/12
97 170th Street, Thorn Creek	7/11	8/11	11/11	10/11	7/10	6/12	9/10	ND
57 Ashland Avenue, Little Calumet River	10/11	6/11	10/11	9/10	10/10	8/12	7/10	8/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	4/11	5/12	5/11	1/11	4/10	2/9	1/11	3/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1/1	ND	4/4	8/9
89 Walnut Lane, West Branch DuPage River	8/12	7/12	10/12	7/11	9/11	8/12	8/12	8/12
64 Lake Street, West Branch DuPage River	9/12	10/12	10/12	7/12	9/12	9/12	10/11	8/11
79 Higgins Road, Salt Creek	6/10	3/9	3/9	1/11	4/9	2/8	1/10	5/10
80 Arlington Heights Road, Salt Creek	5/12	6/12	6/12	6/12	7/12	5/10	6/12	8/12
18 Devon Avenue, Salt Creek	7/12	10/12	9/12	9/12	12/12	8/10	9/12	9/12
24 Wolf Road, Salt Creek	6/11	9/12	9/12	5/11	9/12	6/12	7/12	8/10
109 Brookfield Avenue, Salt Creek	8/11	10/12	10/12	9/11	10/10	4/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	3/3	10/12	9/10
77 Elmhurst Road, Higgins Creek	5/5	7/7	3/4	4/6	5/5	4/6	6/11	6/10
78 Wille Road, Higgins Creek	9/12	7/12	5/12	5/11	8/12	7/12	7/12	7/12
12 Lake-Cook Road, Buffalo Creek	4/9	3/9	3/7	2/7	5/8	4/7	4/11	4/10
13 Lake-Cook Road, Des Plaines River	6/12	4/12	6/12	2/11	6/12	2/12	4/12	6/12
17 Oakton Street, Des Plaines River	4/11	7/12	7/12	5/11	5/10	4/11	5/12	6/10
19 Belmont Avenue, Des Plaines River	5/11	8/12	7/11	5/11	8/12	8/12	6/12	8/10
20 Roosevelt Road, Des Plaines River	7/11	10/12	8/12	6/11	4/7	7/12	6/12	8/10
22 Ogden Avenue, Des Plaines River	4/11	11/12	10/12	8/11	4/5	8/12	7/12	8/10
23 Willow Springs Road, Des Plaines River	5/11	8/12	6/12	4/11	8/10	3/10	5/12	8/10
29 Stephen Street, Des Plaines River	3/11	6/12	5/12	3/11	7/11	6/12	3/12	7/10
91 Material Service Road, Des Plaines River	4/11	6/12	5/12	2/11	9/12	2/12	23/52	19/50
110 Springingsuth Road, West Branch DuPage River	9/10	11/11	9/11	8/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-16: GROSS BETA RADIOACTIVITY VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	0/6	0/4	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/9	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/9	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/9	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/9	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/9	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/10	0/9	0/12	0/9	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/7	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/9	0/11	0/9	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/9	0/12	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/10	0/11	0/9	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/10	0/11	0/8	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/8	0/11	0/9	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/8	0/10	0/9	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/1	0/7	0/9	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/7	0/11	0/9	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/8	0/11	0/8	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/3	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/10	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/10	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/10	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/10	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/10	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/3	0/10	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/9	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/10	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/9	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/10	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/10	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/10	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/10	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/10	ND
91 Material Service Road, Des Plaines River	0/11	0/11	0/12	0/11	0/12	0/12	0/43	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

**TABLE AII-17: BENZENE VIOLATION HISTORY**  
**2000 THROUGH 2007 (HUMAN HEALTH STANDARD)<sup>1</sup>**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/2	0/2	0/8	0/7	0/4	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	0/5	0/4	0/4	0/3	0/3	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/4	0/5	0/3	0/3	NA	NA	NA
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/5	0/4	0/1	NA	NA	NA
32 Lake-Cook Road, Skokie River	0/4	0/4	0/5	0/3	0/3	NA	NA	NA
105 Frontage Road, Skokie River	0/5	0/4	0/5	0/4	0/4	NA	NA	NA
34 Dempster Street, North Branch Chicago River	0/5	0/3	0/5	0/4	0/4	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	0/5	0/4	0/5	0/8	0/4	NA	NA	NA
35 Central Street, North Shore Channel	0/4	0/3	0/4	0/3	0/3	NA	NA	NA
102 Oakton Street, North Shore Channel	0/6	0/4	0/5	0/4	0/3	NA	NA	NA
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	0/3	0/5	0/3	0/3	NA	NA	NA
100 Wells Street, Chicago River	0/5	0/3	0/6	0/4	0/4	NA	NA	NA
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
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/6	0/4	0/5	0/4	0/5	NA	NA	NA
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/6	0/4	0/4	NA	NA	NA
55 130th Street, Calumet River	0/6	0/4	0/5	0/4	0/4	NA	NA	NA
51 IHB Rail Road 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	0/4	0/5	0/2	0/3	NA	NA	NA
54 Joe Orr Road, Thorn Creek	0/5	0/3	0/4	0/3	NA	NA	NA	NA
97 170th Street, Thorn Creek	0/6	0/4	0/6	0/3	0/3	NA	NA	NA
57 Ashland Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/4	NA	NA	NA
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
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/6	0/4	0/5	0/4	0/3	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	0/1	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	NA	NA	NA
64 Lake Street, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	NA	NA	NA
79 Higgins Road, Salt Creek	0/5	0/3	0/4	0/4	0/3	NA	NA	NA
80 Arlington Heights Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	NA	NA	NA
18 Devon Avenue, Salt Creek	0/6	0/4	0/6	0/4	0/4	NA	NA	NA
24 Wolf Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	NA	NA	NA
109 Brookfield Avenue, Salt Creek	0/5	0/4	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/4	0/1	0/3	0/3	0/3	NA	NA	NA
78 Wille Road, Higgins Creek	0/6	0/4	0/5	0/3	0/4	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	0/5	0/2	0/3	0/3	0/2	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/6	0/4	0/4	NA	NA	NA
17 Oakton Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	NA	NA	NA
19 Belmont Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/4	NA	NA	NA
20 Roosevelt Road, Des Plaines River	0/5	0/4	0/6	0/4	0/2	NA	NA	NA
22 Ogden Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/1	NA	NA	NA
23 Willow Springs Road, Des Plaines River	0/5	0/4	0/6	0/4	0/3	NA	NA	NA
29 Stephen Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	NA	NA	NA
91 Material Service Road, Des Plaines River	0/5	0/4	0/6	0/4	0/4	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	0/4	0/4	0/5	0/4	NA	NA	NA	NA

<sup>1</sup>Human Health Standard in General Use Waters became effective in December 2002  
 NA = Not Applicable

TABLE AII-18: BENZENE VIOLATION HISTORY  
2000 THROUGH 2007<sup>1</sup>

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/2	0/2	0/8	0/7	0/4	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/5	0/4	0/4	0/3	0/3	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/5	0/4	0/1	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/5	0/4	0/4	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/3	0/5	0/4	0/4	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/4	0/5	0/8	0/4	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/4	0/3	0/3	ND	ND	ND
102 Oakton Street, North Shore Channel	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/5	0/3	0/3	ND	ND	ND
100 Wells Street, Chicago River	0/5	0/3	0/6	0/4	0/4	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/6	0/4	0/5	0/4	0/5	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
55 130th Street, Calumet River	0/6	0/4	0/5	0/4	0/4	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/3	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/5	0/3	0/4	0/3	NA	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/4	0/6	0/3	0/3	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/4	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
79 Higgins Road, Salt Creek	0/5	0/3	0/4	0/4	0/3	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
24 Wolf Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/5	0/4	NA	NA	NA	ND	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/1	0/3	0/3	0/3	ND	ND	ND
78 Wille Road, Higgins Creek	0/6	0/4	0/5	0/3	0/4	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/5	0/2	0/3	0/3	0/2	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
17 Oakton Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/5	0/4	0/6	0/4	0/2	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/1	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
29 Stephen Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
91 Material Service Road, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/4	0/4	0/5	0/4	NA	ND	ND	ND

<sup>1</sup>Based on General Use Water quality standards  
NA = Not Applicable  
ND = No Data

TABLE AII-19: ETHYLBENZENE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/2	0/2	0/8	0/7	0/4	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/5	0/4	0/4	0/3	0/3	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/5	0/4	0/1	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/5	0/4	0/4	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/3	0/5	0/4	0/4	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/4	0/5	0/8	0/4	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/4	0/3	0/3	ND	ND	ND
102 Oakton Street, North Shore Channel	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/5	0/3	0/3	ND	ND	ND
100 Wells Street, Chicago River	0/5	0/3	0/6	0/4	0/4	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/6	0/4	0/5	0/4	0/5	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
55 130th Street, Calumet River	0/6	0/4	0/5	0/4	0/4	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/3	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/5	0/3	0/4	0/3	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/4	0/6	0/3	0/3	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/4	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
79 Higgins Road, Salt Creek	0/5	0/3	0/4	0/4	0/3	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
24 Wolf Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/5	0/4	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/1	0/3	0/3	0/3	ND	ND	ND
78 Wille Road, Higgins Creek	0/6	0/4	0/5	0/3	0/4	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/5	0/2	0/3	0/3	0/2	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
17 Oakton Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/5	0/4	0/6	0/4	0/2	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/1	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
29 Stephen Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
91 Material Service Road, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/4	0/4	0/5	0/4	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-20: TOLUENE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/2	0/2	0/8	0/7	0/4	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/5	0/4	0/4	0/3	0/3	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/5	0/4	0/1	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/5	0/4	0/4	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/3	0/5	0/4	0/4	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/4	0/5	0/8	0/4	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/4	0/3	0/3	ND	ND	ND
102 Oakton Street, North Shore Channel	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/5	0/3	0/3	ND	ND	ND
100 Wells Street, Chicago River	0/5	0/3	0/6	0/4	0/4	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/6	0/4	0/5	0/4	0/5	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
55 130th Street, Calumet River	0/6	0/4	0/5	0/4	0/4	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/3	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/5	0/3	0/4	0/3	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/4	0/6	0/3	0/3	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/4	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
79 Higgins Road, Salt Creek	0/5	0/3	0/4	0/4	0/3	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
24 Wolf Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/5	0/4	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/1	0/3	0/3	0/3	ND	ND	ND
78 Wille Road, Higgins Creek	0/6	0/4	0/5	0/3	0/4	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/5	0/2	0/3	0/3	0/2	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
17 Oakton Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/5	0/4	0/6	0/4	0/2	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/1	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
29 Stephen Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
91 Material Service Road, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/4	0/4	0/5	0/4	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data



TABLE AII-21: XYLENE VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/2	0/2	0/8	0/7	0/4	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/5	0/4	0/4	0/3	0/3	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/5	0/4	0/1	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/4	0/4	0/5	0/3	0/3	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/5	0/4	0/4	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/3	0/5	0/4	0/4	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/4	0/5	0/8	0/4	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/4	0/3	0/3	ND	ND	ND
102 Oakton Street, North Shore Channel	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/5	0/3	0/3	ND	ND	ND
100 Wells Street, Chicago River	0/5	0/3	0/6	0/4	0/4	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/6	0/4	0/5	0/4	0/5	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
55 130th Street, Calumet River	0/6	0/4	0/5	0/4	0/4	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/3	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/5	0/3	0/4	0/3	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/4	0/6	0/3	0/3	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/6	0/4	0/5	0/2	0/4	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/6	0/4	0/5	0/4	0/3	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
79 Higgins Road, Salt Creek	0/5	0/3	0/4	0/4	0/3	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
24 Wolf Road, Salt Creek	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/5	0/4	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/1	0/3	0/3	0/3	ND	ND	ND
78 Wille Road, Higgins Creek	0/6	0/4	0/5	0/3	0/4	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/5	0/2	0/3	0/3	0/2	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/6	0/4	0/4	ND	ND	ND
17 Oakton Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/5	0/4	0/6	0/4	0/2	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/5	0/4	0/6	0/4	0/1	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
29 Stephen Street, Des Plaines River	0/5	0/4	0/6	0/4	0/3	ND	ND	ND
91 Material Service Road, Des Plaines River	0/5	0/4	0/6	0/4	0/4	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/4	0/4	0/5	0/4	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-22: TOTAL SILVER VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	1/11	1/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	2/10	0/11	1/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	1/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	1/10	0/11	1/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	1/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	1/12	1/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	1/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/11	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	3/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/11	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	2/12	0/12	2/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	1/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	3/11	0/11	2/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	1/7	0/12	1/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	2/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	1/12	0/10	2/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	1/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	1/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	1/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/4	0/12	1/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	1/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	1/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	2/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	1/12	1/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	1/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	1/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	1/51	2/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-23: TOTAL ARSENIC VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-24: TOTAL BARIUM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-25: TOTAL BORON VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/7	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/9	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-26: TOTAL CADMIUM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	1/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-27: TOTAL COPPER VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	1/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	4/9	1/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	2/11	1/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	1/12	0/12	1/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	2/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	1/12	0/12	1/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	1/12	2/11	1/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	1/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	1/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	1/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	1/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	2/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	1/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	1/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	1/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-28: TOTAL CHROMIUM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	0/12	0/10	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data



TABLE AII-29: TOTAL HEXAVALENT CHROMIUM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	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	0/50	0/53	0/52	0/52	0/52	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0/8	0/11	0/9	0/9	0/11	ND	ND	ND
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	ND	ND	ND
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	1/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	1/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	1/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	1/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-30: TOTAL IRON VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	2/2	1/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	2/6	4/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	5/11	5/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	3/10	9/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	1/9	1/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	1/10	3/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	4/12	5/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	5/12	1/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	1/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	1/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	1/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	1/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	1/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	1/12	1/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	2/10	0/11	2/10	1/9	3/10	1/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	1/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	10/11	8/11	8/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	2/12	2/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	3/11	9/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	4/12	8/10	1/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	1/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	1/11	0/12	0/12	0/11	0/12	1/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	1/11	0/12	1/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	3/9	2/11	1/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	4/4	2/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	1/12	1/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	2/12	5/11	2/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	6/8	5/10	4/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	1/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	2/12	1/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	2/12	5/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	2/12	1/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	3/6	6/11	1/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	1/12	1/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	4/7	3/11	4/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	5/12	6/12	2/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	2/11	4/12	2/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	2/12	4/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	3/12	1/12	1/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	3/12	2/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	8/12	1/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	2/12	9/12	1/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	4/12	31/51	7/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-31: TOTAL LEAD VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	1/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	1/12	0/12	1/12	0/12
46 Grand Avenue, North Branch Chicago River	0/11	0/12	0/12	0/12	1/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/11	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	1/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	1/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	1/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	1/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	1/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-32: TOTAL NICKEL VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data

**TABLE AII-33: TOTAL MANGANESE VIOLATION HISTORY  
2000 THROUGH 2007**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	1/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	1/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/51	0/49
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	1/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-34: TOTAL MERCURY VIOLATION HISTORY  
2000 THROUGH 2007 (HUMAN HEALTH STANDARD)<sup>1</sup>

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	1/4	0/5	0/4	4/8	0/3	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	0/11	3/12	5/10	4/10	2/8	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	0/10	2/11	2/10	3/10	2/9	NA	NA	NA
104 Glenview Road, North Branch Chicago River	1/11	4/12	6/12	5/12	1/3	NA	NA	NA
32 Lake-Cook Road, Skokie River	1/10	4/12	3/11	5/10	2/9	NA	NA	NA
105 Frontage Road, Skokie River	1/11	2/12	5/12	5/12	4/12	NA	NA	NA
34 Dempster Street, North Branch Chicago River	2/11	2/12	4/11	6/12	2/11	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	3/11	1/12	4/11	2/11	2/10	NA	NA	NA
35 Central Street, North Shore Channel	0/9	1/9	1/8	0/9	1/9	NA	NA	NA
102 Oakton Street, North Shore Channel	2/12	2/12	3/12	6/12	0/10	NA	NA	NA
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	2/11	1/11	0/10	4/9	3/10	NA	NA	NA
100 Wells Street, Chicago River	1/11	3/12	3/12	3/12	3/12	NA	NA	NA
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
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	1/11	0/11	2/10	2/12	NA	NA	NA
50 Burnham Avenue, Wolf Lake	2/11	2/11	1/12	3/12	5/12	NA	NA	NA
55 130th Street, Calumet River	0/10	2/11	3/11	2/11	2/10	NA	NA	NA
51 IHB Rail Road 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	2/11	5/11	2/9	3/10	NA	NA	NA
54 Joe Orr Road, Thorn Creek	0/10	2/9	2/8	0/7	1/3	NA	NA	NA
97 170th Street, Thorn Creek	1/11	2/11	5/11	3/11	3/10	NA	NA	NA
57 Ashland Avenue, Little Calumet River	1/11	2/11	4/11	3/10	4/10	NA	NA	NA
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
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	2/11	1/12	3/11	4/11	2/10	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	0/1	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	1/12	1/12	2/12	4/11	1/11	NA	NA	NA
64 Lake Street, West Branch DuPage River	3/12	2/12	2/12	3/12	4/12	NA	NA	NA
79 Higgins Road, Salt Creek	2/10	0/9	1/9	1/11	4/9	NA	NA	NA
80 Arlington Heights Road, Salt Creek	0/12	2/12	2/12	2/12	3/12	NA	NA	NA
18 Devon Avenue, Salt Creek	1/12	3/12	2/12	4/12	2/12	NA	NA	NA
24 Wolf Road, Salt Creek	2/11	2/12	2/12	2/11	3/12	NA	NA	NA
109 Brookfield Avenue, Salt Creek	1/11	2/12	0/11	7/11	2/10	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	1/5	0/7	0/4	2/6	2/5	NA	NA	NA
78 Wille Road, Higgins Creek	1/12	2/12	2/12	3/11	3/12	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	1/9	1/9	1/7	2/7	3/8	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	1/12	3/12	1/12	3/11	3/12	NA	NA	NA
17 Oakton Street, Des Plaines River	2/11	2/12	2/12	2/11	4/10	NA	NA	NA
19 Belmont Avenue, Des Plaines River	0/11	2/12	0/12	4/11	3/12	NA	NA	NA
20 Roosevelt Road, Des Plaines River	1/11	2/12	2/12	3/11	3/7	NA	NA	NA
22 Ogden Avenue, Des Plaines River	1/11	3/12	2/12	2/11	1/5	NA	NA	NA
23 Willow Springs Road, Des Plaines River	1/11	2/12	2/12	1/11	3/10	NA	NA	NA
29 Stephen Street, Des Plaines River	2/11	2/12	2/12	2/11	2/11	NA	NA	NA
91 Material Service Road, Des Plaines River	1/11	2/12	2/12	2/11	2/12	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	1/10	1/11	3/11	3/10	NA	NA	NA	NA

<sup>1</sup>Human Health Standard in General Use Waters became effective in December 2002  
NA = Not Applicable

**TABLE AII-35: TOTAL MERCURY VIOLATION HISTORY**  
**2000 THROUGH 2007<sup>1</sup>**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	1/10	0/9	0/9	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/11	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springinguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

<sup>1</sup>Based upon Secondary Contact Water quality standards which became effective in December 2002

NA = Not Applicable

ND = No Data

**TABLE AII-36: TOTAL ZINC VIOLATION HISTORY  
2000 THROUGH 2007**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	0/10	0/11	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/6
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	0/12	0/12	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	0/12	0/11	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	0/7	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	0/12	0/11	0/11
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	0/10	0/12	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	0/6	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	0/6	0/11	0/10
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	ND	ND	ND

NA = Not Applicable  
ND = No Data



TABLE AII-37: TOTAL SELENIUM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/11	0/10	0/9	0/10	0/11	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	0/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/51	0/50
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

TABLE AII-38: SOLUBLE ARSENIC VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

**TABLE AII-39: SOLUBLE CADMIUM VIOLATION HISTORY  
2000 THROUGH 2007**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-40: SOLUBLE COPPER VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	1/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-41: SOLUBLE CHROMIUM VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

**TABLE AII-42: SOLUBLE IRON VIOLATION HISTORY**  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/2	0/1
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/5	0/4	0/8	0/3	0/6	0/5	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	0/11	0/10	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	0/10	0/11	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	0/9	0/10	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	0/10	0/11	0/10
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	0/12	0/10	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	0/12	0/12	0/11
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	0/12	0/12	0/6
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	0/11	0/10	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/13	0/12	0/12	0/12	0/10	ND
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	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	0/12	0/12	0/12
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	0/12	0/7	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/12	0/12	0/11	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/12	0/12	0/9	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/7	0/11	0/12	0/12	0/12	0/10	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	ND	ND	0/9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/12	0/10	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/13	0/12	0/12	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/13	0/11	0/12	0/12	0/12	0/12	0/11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/15
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/53	0/52	0/52	0/52	0/51	0/53	0/50
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	0/12	0/11	0/12
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	0/12	0/11	0/11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/10	0/11	0/10	0/9	0/10	0/11	0/10	1/11
56 Indiana Avenue, Little Calumet River	0/9	0/11	0/9	0/9	0/11	0/12	0/8	0/12
76 Halsted Street, Little Calumet River	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	0/11	0/11	0/11
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	0/7	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	0/12	0/10	0/11
58 Ashland Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet Sag Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/12	0/12
43 Route 83, Calumet Sag Channel	1/11	0/11	0/11	0/10	0/11	0/12	0/12	0/12
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	0/9	0/11	0/7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	0/4	0/9
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	0/12	0/12	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/11
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	0/8	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	0/6	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/4	0/12	0/10
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	0/6	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	0/7	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	0/12	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/11	0/12	0/10
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	0/12	0/12	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	0/12	0/12	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	0/10	0/12	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	0/12	0/12	0/10
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	0/12	0/51	0/50
110 Springinsguth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

ND = No Data

**TABLE AII-43: SOLUBLE LEAD VIOLATION HISTORY  
2000 THROUGH 2007**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-44: SOLUBLE NICKEL VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/11	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/11	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data



TABLE AII-45: SOLUBLE MERCURY VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/3	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	0/1	0/3	0/2	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/3	0/2	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/5	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	0/2	0/4	0/2	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	0/2	0/5	0/4	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	0/1	0/4	0/2	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	0/1	0/2	0/2	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	0/1	ND	0/1	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	0/1	0/5	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/3	0/4	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	0/1	0/3	0/3	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/1	0/1	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/2	0/5	ND	ND	ND
55 130th Street, Calumet River	ND	0/1	ND	0/2	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	0/1	0/1	ND	0/2	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	0/1	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	0/3	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	0/1	0/3	0/2	0/3	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route 19, Poplar Creek	0/1	ND	0/2	0/4	0/1	ND	ND	ND
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	0/3	0/1	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/3	0/4	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	0/1	0/3	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	0/2	0/2	0/2	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	0/2	0/3	0/1	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	0/2	0/3	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/5	0/1	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/2	0/1	ND	ND	ND
78 Wille Road, Higgins Creek	ND	0/1	0/1	0/2	0/3	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	0/1	0/1	0/2	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	0/1	0/3	0/2	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	0/1	0/1	0/1	0/4	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/3	0/4	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/3	0/2	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/2	0/1	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	0/1	0/1	0/2	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	0/1	ND	0/2	0/2	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	0/1	0/1	0/2	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	ND	ND	0/1	0/3	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

TABLE AII-46: SOLUBLE ZINC VIOLATION HISTORY  
2000 THROUGH 2007

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	07	06	05	04	03	02	01	00
<b>Chicago River System</b>								
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	0/4	0/5	0/4	0/8	0/3	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/12	0/10	0/10	0/8	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/11	0/10	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/12	0/12	0/3	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/12	0/11	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
35 Central Street, North Shore Channel	0/9	0/9	0/8	0/9	0/9	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/11	0/12	0/12	0/12	0/12	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	ND	ND	ND
<b>Calumet River System</b>								
49 Ewing Avenue, Calumet River	0/10	0/11	0/11	0/10	0/12	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/11	0/11	0/12	0/12	0/12	ND	ND	ND
55 130th Street, Calumet River	0/10	0/11	0/11	0/11	0/10	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/11	0/11	0/9	0/10	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/10	0/9	0/8	0/7	0/3	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/11	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/11	0/11	0/10	0/10	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	ND	ND	ND
<b>Des Plaines River System</b>								
90 Route T9, Poplar Creek	0/11	0/12	0/11	0/11	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/1	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/11	0/11	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
79 Higgins Road, Salt Creek	0/10	0/9	0/9	0/11	0/9	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/12	0/12	ND	ND	ND
24 Wolf Road, Salt Creek	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/5	0/7	0/4	0/6	0/5	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/10	0/12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/9	0/7	0/7	0/8	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/11	0/12	ND	ND	ND
17 Oakton Street, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/12	0/11	0/7	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/11	0/12	0/12	0/11	0/5	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/12	0/11	0/11	ND	ND	ND
91 Material Service Road, Des Plaines River	0/11	0/12	0/12	0/11	0/12	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0/10	0/11	0/11	0/10	ND	ND	ND	ND

NA = Not Applicable  
ND = No Data

**TABLE AII-47: BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	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	ND
103 Golf Road, West Fork North Branch Chicago River	ND	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	ND
104 Glenview Road, North Branch Chicago River	ND	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	ND
105 Frontage Road, Skokie River	ND	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	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	4.00	2.00	2.89	3.50	3.30	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	1.00	2.00	2.56	1.56	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	8.00	3.33	3.30	3.45	2.30	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	11.00	6.42	7.58	6.58	6.90	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	8.00	5.92	5.42	6.58	4.90	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	10.00	5.67	5.25	4.92	4.10	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	6.00	3.25	3.25	3.00	3.80	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	2.00	3.17	2.67	1.83	4.00	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	1.33	2.70	2.08	0.80	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	3.00	2.17	3.25	2.33	1.57	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	4.00	2.92	3.91	2.58	2.50	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	3.00	2.92	4.25	2.92	1.89	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	6.08	3.73	4.83	4.80	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	4.00	2.42	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.75	4.60	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	4.00	3.75	4.67	2.58	2.20	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	5.00	3.17	3.33	2.25	2.90	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	0.00	2.83	2.75	2.58	2.90	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	3.00	1.83	2.50	1.25	1.67	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	6.60	6.20	5.29	7.10	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	3.14	1.50	1.65	1.74	2.82	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	ND	ND	ND	1.10	0.92	0.92	0.60	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	0.00	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	0.27	1.90	1.67	0.60	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	4.50	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	1.78	2.36	2.42	2.75	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	4.00	1.75	2.64	1.58	2.90	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	3.00	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	2.00	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	3.50	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	2.40	4.50	2.17	3.33	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	3.00	0.83	3.00	1.25	2.50	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	3.00	1.55	2.00	2.50	2.30	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	1.89	2.00	1.58	2.30	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	ND	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	ND
89 Walnut Lane, West Branch DuPage River	ND	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	ND
79 Higgins Road, Salt Creek	ND	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	ND
18 Devon Avenue, Salt Creek	ND	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	ND
109 Brookfield Avenue, Salt Creek	ND	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	ND
77 Elmhurst Road, Higgins Creek	ND	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	ND
12 Lake-Cook Road, Buffalo Creek	ND	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	ND
17 Oakton Street, Des Plaines River	ND	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	ND
20 Roosevelt Road, Des Plaines River	ND	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	ND
23 Willow Springs Road, Des Plaines River	ND	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	ND
91 Material Service Road, Des Plaines River	ND	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

ND = No Data

TABLE AII-48: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	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	ND
103 Golf Road, West Fork North Branch Chicago River	ND	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	ND
104 Glenview Road, North Branch Chicago River	ND	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	ND
105 Frontage Road, Skokie River	ND	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	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	3.000	1.857	1.778	2.364	2.300	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	1.000	1.667	1.111	0.222	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	0.000	2.083	1.444	1.909	2.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	4.000	2.500	2.250	2.000	2.200	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	2.000	1.917	1.750	2.333	1.300	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	4.000	1.667	2.500	2.083	1.400	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	2.000	1.333	1.167	1.333	1.200	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	1.500	1.500	0.917	0.500	0.500	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	1.111	2.800	1.500	0.500	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	3.000	1.583	1.667	1.636	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	2.000	1.417	2.000	1.417	1.100	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	0.000	1.250	2.583	1.500	0.889	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	3.083	1.583	2.250	3.500	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	2.000	1.417	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1.750	1.400	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	3.000	1.667	0.833	0.750	1.300	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	3.000	1.500	1.333	0.500	1.300	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	2.000	0.500	1.250	0.583	1.100	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.583	1.167	0.500	1.000	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	0.714	0.608	0.519	0.400	0.000	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	ND	ND	ND	0.500	1.333	0.833	0.600	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	0.273	1.400	1.250	0.500	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	3.500	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	0.000	1.364	1.917	1.375	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	4.000	1.083	1.000	0.667	1.400	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	1.000	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	2.000	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	2.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	1.400	2.100	1.583	1.778	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	3.000	1.083	1.500	0.667	1.100	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	4.000	0.833	1.273	0.917	1.500	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	0.600	1.182	0.833	0.700	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	ND	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	ND
89 Walnut Lane, West Branch DuPage River	ND	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	ND
79 Higgins Road, Salt Creek	ND	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	ND
18 Devon Avenue, Salt Creek	ND	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	ND
109 Brookfield Avenue, Salt Creek	ND	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	ND
77 Elmhurst Road, Higgins Creek	ND	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	ND
12 Lake-Cook Road, Buffalo Creek	ND	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	ND
17 Oakton Street, Des Plaines River	ND	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	ND
20 Roosevelt Road, Des Plaines River	ND	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	ND
23 Willow Springs Road, Des Plaines River	ND	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	ND
91 Material Service Road, Des Plaines River	ND	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

ND = No Data

TABLE AII-49: DISSOLVED OXYGEN MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	10.75	10.50	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	8.75	8.10	10.30	8.02	7.00	9.12	9.54	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.31	8.58	7.38	7.64	6.86	7.10	6.98	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.16	7.15	5.42	6.46	6.22	6.55	6.91	6.99	6.72	6.56	7.44
104 Glenview Road, North Branch Chicago River	6.90	7.98	8.12	8.03	7.47	8.08	7.36	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.21	7.75	7.75	7.73	6.67	7.14	7.65	7.25	6.59	7.56	7.49
105 Frontage Road, Skokie River	7.76	9.27	8.79	8.33	7.95	8.15	7.49	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	6.52	8.23	7.16	8.21	7.45	7.75	7.29	7.50	7.93	8.04	8.18
96 Albany Avenue, North Branch Chicago River	8.19	9.18	8.63	9.12	7.77	7.71	7.42	6.80	ND	ND	ND
35 Central Street, North Shore Channel	8.23	8.63	7.50	7.53	8.08	7.34	8.03	7.48	7.51	7.20	9.69
102 Oakton Street, North Shore Channel	7.76	8.73	7.95	7.26	6.32	6.58	5.80	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.65	7.93	7.98	8.10	7.54	6.90	7.39	7.24	7.43	7.31	7.85
101 Foster Avenue, North Shore Channel	7.13	7.20	7.30	7.58	7.42	6.53	6.87	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.58	7.83	7.03	7.55	7.14	6.74	7.13	6.68	6.75	7.04	7.36
73 Diversey Parkway, North Branch Chicago River	6.75	7.25	6.44	6.71	6.25	5.74	6.18	5.84	5.81	6.05	6.36
46 Grand Avenue, North Branch Chicago River	6.67	6.85	6.30	6.47	6.12	5.86	6.00	6.13	6.53	6.35	5.92
74 Lake Shore Drive, Chicago River	9.00	9.19	9.08	8.50	7.62	9.03	7.99	8.04	9.26	9.36	9.79
100 Wells Street, Chicago River	8.39	8.68	8.96	8.56	7.54	7.83	7.27	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.45	7.79	7.85	6.86	5.73	6.38	6.32	6.67	6.89	7.38	7.82
108 Loomis Street, South Branch Chicago River	7.21	7.81	7.78	7.23	5.97	5.86	5.79	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	6.19	6.00	6.65	5.63	5.29	3.91	2.62	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.25	7.44	7.59	6.71	5.68	ND	ND	5.43	6.19	7.00	7.48
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	5.60	5.34	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.22	6.04	6.11	5.77	5.18	5.18	5.28	4.98	5.99	6.21	7.16
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.59	7.30	7.29	6.92	6.81	6.95	6.60	6.52	7.16	7.13	6.96
42 Route 83, Chicago Sanitary & Ship Canal	6.00	5.46	5.90	6.06	5.85	6.09	5.46	5.46	5.76	5.90	6.23
48 Stephen Street, Chicago Sanitary & Ship Canal	5.98	5.43	6.25	6.25	5.78	5.73	5.38	5.40	5.63	6.03	6.07
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	6.07	5.68	5.86	5.67	5.57	5.32	5.34	5.65	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	9.66	9.50	9.99	9.24	9.73	9.65	8.99	9.44	9.81	9.36	10.17
50 Burnham Avenue, Wolf Lake	8.79	9.63	9.25	9.79	8.91	9.77	8.70	9.33	9.45	9.25	9.73
55 130th Street, Calumet River	8.91	8.45	9.26	9.13	8.27	9.17	8.41	8.43	8.97	8.56	8.95
86 Burnham Avenue, Grand Calumet River	4.21	6.20	4.80	4.93	3.94	6.22	4.19	4.43	5.14	5.63	5.25
56 Indiana Avenue, Little Calumet River	7.49	9.61	8.83	7.71	8.40	8.69	8.59	8.20	8.48	7.84	8.16
76 Halsted Street, Little Calumet River	6.35	6.27	6.98	7.13	7.00	6.92	6.69	6.60	6.69	6.60	6.53
52 Wentworth Avenue, Little Calumet River	6.43	7.49	6.45	6.40	6.53	6.47	6.20	6.52	6.23	6.91	6.47
54 Joe Orr Road, Thorn Creek	8.19	7.72	7.65	8.57	8.40	8.54	8.27	8.28	8.85	8.61	8.03
97 170th Street, Thorn Creek	7.34	7.15	7.85	8.37	7.80	8.37	7.29	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	6.50	7.27	6.35	6.99	5.42	7.29	5.75	6.28	5.80	6.34	6.08
58 Ashland Avenue, Calumet Sag Channel	6.54	7.15	7.23	7.25	6.98	6.48	6.41	6.37	6.21	5.61	6.66
59 Cicero Avenue, Calumet Sag Channel	6.79	6.24	6.56	6.80	7.23	6.85	5.93	6.35	6.12	6.04	6.44
43 Route 83, Calumet Sag Channel	6.51	6.70	7.38	6.39	7.88	6.93	6.04	6.17	5.95	5.64	6.04
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	9.64	9.78	8.47	10.16	9.16	8.94	9.52	7.91	10.15	8.40	9.26
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	8.90	ND	8.18	7.50	10.04	8.36	9.38
89 Walnut Lane, West Branch DuPage River	8.68	8.28	7.78	8.03	7.48	7.64	6.82	7.01	8.20	7.33	8.22
64 Lake Street, West Branch DuPage River	8.91	8.68	8.61	7.41	8.05	8.38	8.25	7.79	8.74	7.79	7.71
79 Higgins Road, Salt Creek	7.80	8.78	6.24	8.97	7.37	7.59	8.88	7.09	9.07	7.77	8.94
80 Arlington Heights Road, Salt Creek	8.78	8.77	8.48	8.01	7.79	8.07	8.29	7.79	7.97	7.31	8.43
18 Devon Avenue, Salt Creek	8.94	8.89	9.04	8.33	7.59	7.96	8.24	7.78	7.93	7.66	8.98
24 Wolf Road, Salt Creek	8.23	8.51	8.61	8.19	8.64	7.79	8.50	7.74	9.04	9.70	9.73
109 Brookfield Avenue, Salt Creek	7.59	7.58	7.81	8.02	8.13	5.98	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	10.90	7.98	6.72	7.65	6.48	7.07
77 Elmhurst Road, Higgins Creek	8.66	8.43	9.15	8.80	7.48	8.22	8.42	7.71	9.39	7.97	9.23
78 Wille Road, Higgins Creek	8.76	9.04	8.88	9.15	8.16	8.55	8.93	8.43	8.61	7.80	8.97
12 Lake-Cook Road, Buffalo Creek	8.83	8.69	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	8.55	8.76	8.59	8.83	8.30	9.35	9.02	8.04	8.46	8.01	8.55
17 Oakton Street, Des Plaines River	8.39	8.35	8.39	8.83	7.57	8.17	9.00	7.66	8.32	8.11	8.49
19 Belmont Avenue, Des Plaines River	7.67	8.43	7.55	7.91	7.64	7.74	8.59	6.41	7.26	6.58	8.26
20 Roosevelt Road, Des Plaines River	7.62	8.16	7.57	8.13	7.16	7.96	8.31	6.44	7.24	6.44	8.05
22 Ogden Avenue, Des Plaines River	8.94	9.00	9.13	9.27	12.06	9.34	9.20	7.72	8.43	8.40	9.18
23 Willow Springs Road, Des Plaines River	8.65	8.24	9.08	9.19	8.66	8.99	9.44	7.65	8.68	8.41	9.14
29 Stephen Street, Des Plaines River	8.56	8.90	9.91	9.62	9.95	9.53	9.98	7.81	9.15	9.11	9.74
91 Material Service Road, Des Plaines River	9.38	9.68	10.31	10.65	9.65	10.31	8.71	8.42	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	6.17	6.23	6.80	6.31	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-50: TEMPERATURE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (°C)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	4.1	1.1	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	9.8	13.2	12.4	12.1	19.4	10.8	16.9	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	15.4	13.4	15.2	16.7	15.2	12.5	15.8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	15.7	12.6	16.1	15.3	16.7	11.7	14.2	15.5	13.9	12.2	11.6	
104 Glenview Road, North Branch Chicago River	14.8	12.9	15.1	13.9	16.5	10.4	15.9	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	16.2	12.9	17.1	15.2	16.1	11.9	14.4	15.5	14.0	11.9	12.1	
105 Frontage Road, Skokie River	14.9	13.1	14.4	13.9	15.1	12.7	16.7	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	14.7	12.8	16.7	15.3	14.3	12.3	14.2	15.3	14.5	13.2	12.4	
96 Albany Avenue, North Branch Chicago River	15.1	13.0	15.5	14.3	15.2	12.9	15.3	16.0	ND	ND	ND	ND
35 Central Street, North Shore Channel	15.5	18.6	17.9	17.4	17.9	14.3	15.3	18.0	15.9	16.2	12.0	
102 Oakton Street, North Shore Channel	14.3	15.0	16.1	12.8	16.2	14.9	16.8	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	17.0	15.6	16.4	14.7	17.0	16.5	16.9	15.8	16.9	15.8	12.8	
101 Foster Avenue, North Shore Channel	16.7	15.8	16.8	15.8	17.9	15.3	17.8	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	15.7	15.2	17.5	17.3	17.1	15.1	15.1	14.9	16.0	15.2	12.4	
73 Diversey Parkway, North Branch Chicago River	15.5	15.0	17.4	16.9	16.0	15.2	15.3	15.4	16.5	15.4	12.4	
46 Grand Avenue, North Branch Chicago River	16.5	14.9	17.5	16.7	14.5	15.3	15.6	14.4	15.1	15.0	14.6	
74 Lake Shore Drive, Chicago River	14.5	14.0	15.2	17.5	15.5	12.8	14.0	13.8	14.9	13.3	11.5	
100 Wells Street, Chicago River	14.5	13.9	13.4	14.4	14.1	14.0	16.4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	14.1	14.0	13.3	14.3	12.7	14.1	15.0	14.7	14.7	13.8	12.1	
108 Loomis Street, South Branch Chicago River	16.3	16.7	15.5	18.4	17.1	17.8	20.0	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	16.6	18.9	15.8	16.5	16.1	17.2	18.5	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	16.3	16.6	15.5	16.9	16.8	ND	ND	18.3	16.8	15.4	13.3	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	17.1	17.8	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	20.2	17.7	20.0	18.1	20.8	18.8	18.1	18.7	15.6	18.0	12.5	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	16.3	16.4	17.3	17.6	17.5	16.9	17.1	17.0	17.9	16.7	13.9	
42 Route 83, Chicago Sanitary & Ship Canal	18.7	18.4	17.7	15.3	17.5	16.6	16.9	19.1	18.0	17.2	15.0	
48 Stephen Street, Chicago Sanitary & Ship Canal	17.4	16.3	16.1	15.8	15.6	16.4	16.9	18.3	18.5	16.6	14.6	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	19.8	19.4	19.3	18.1	17.9	18.7	18.3	19.1	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	16.3	14.0	16.2	14.2	12.4	12.7	13.0	13.4	13.5	14.8	12.6	
50 Burnham Avenue, Wolf Lake	16.3	13.9	14.5	13.0	14.2	12.1	14.1	13.5	13.6	15.0	12.4	
55 130th Street, Calumet River	17.6	13.5	15.8	15.6	14.4	12.3	15.1	14.8	15.7	15.5	13.3	
86 Burnham Avenue, Grand Calumet River	16.8	13.7	16.2	15.4	15.6	12.9	15.5	15.1	15.3	15.6	13.7	
56 Indiana Avenue, Little Calumet River	18.6	14.6	16.0	16.7	16.2	13.6	17.8	15.2	15.7	16.7	14.1	
76 Halsted Street, Little Calumet River	17.2	15.3	16.4	13.5	15.7	14.8	15.0	16.2	16.5	16.4	13.6	
52 Wentworth Avenue, Little Calumet River	14.9	14.1	14.5	14.3	16.2	13.1	13.9	14.6	15.3	14.3	11.9	
54 Joe Orr Road, Thorn Creek	16.3	15.1	15.0	15.3	14.9	15.0	15.9	17.3	15.0	15.8	13.2	
97 170th Street, Thorn Creek	15.4	14.7	13.4	14.7	15.3	14.4	15.5	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	15.3	15.7	15.7	16.2	17.1	12.9	15.7	15.6	16.0	14.6	11.2	
58 Ashland Avenue, Calumet Sag Channel	16.3	14.3	15.8	14.2	15.1	14.5	14.7	15.7	16.7	19.1	14.1	
59 Cicero Avenue, Calumet Sag Channel	16.5	16.6	15.0	16.6	16.9	16.3	14.5	15.5	16.6	16.0	13.1	
43 Route 83, Calumet Sag Channel	17.3	15.1	16.7	20.0	16.8	14.9	14.2	15.5	16.5	15.5	14.0	
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	14.3	13.2	15.1	15.0	13.8	16.3	14.0	17.7	13.1	17.1	14.6	
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	20.4	ND	11.3	16.2	13.9	17.8	10.6	
89 Walnut Lane, West Branch DuPage River	15.7	13.8	16.9	16.1	16.6	15.5	15.8	15.2	16.1	18.3	15.1	
64 Lake Street, West Branch DuPage River	14.8	14.5	16.5	15.9	14.4	14.2	16.0	15.5	14.7	17.9	13.9	
79 Higgins Road, Salt Creek	15.8	18.6	19.2	15.0	15.1	18.9	16.8	15.9	14.4	19.1	14.2	
80 Arlington Heights Road, Salt Creek	15.0	14.6	16.4	15.9	14.9	14.2	14.5	14.2	15.2	17.6	14.2	
18 Devon Avenue, Salt Creek	14.3	14.0	15.3	15.4	16.0	14.6	14.5	14.5	14.8	17.5	13.5	
24 Wolf Road, Salt Creek	14.6	13.5	14.8	16.2	12.9	12.3	13.8	16.3	14.8	9.9	9.6	
109 Brookfield Avenue, Salt Creek	14.5	12.8	14.9	15.1	14.1	15.9	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	3.4	13.5	15.3	13.5	14.8	11.6	
77 Elmhurst Road, Higgins Creek	14.0	13.3	12.3	12.7	15.4	15.0	14.5	15.2	14.0	15.3	9.2	
78 Wille Road, Higgins Creek	16.2	16.1	17.1	15.6	15.4	16.0	15.6	16.3	16.1	17.3	11.5	
12 Lake-Cook Road, Buffalo Creek	14.2	11.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	13.1	12.9	15.8	14.1	12.4	12.2	13.3	13.3	12.9	15.7	11.6	
17 Oakton Street, Des Plaines River	14.4	13.6	15.9	15.2	15.5	14.4	13.5	15.1	13.8	15.1	10.0	
19 Belmont Avenue, Des Plaines River	14.8	14.2	15.3	16.2	13.6	12.1	13.5	15.1	13.7	15.3	10.7	
20 Roosevelt Road, Des Plaines River	15.2	13.8	15.4	15.7	15.3	12.2	13.8	15.0	13.3	15.2	10.6	
22 Ogden Avenue, Des Plaines River	14.4	13.0	15.1	16.5	6.0	11.3	13.9	15.5	14.1	14.8	11.2	
23 Willow Springs Road, Des Plaines River	15.7	12.7	14.7	16.1	15.0	14.4	13.6	16.1	14.8	16.2	10.0	
29 Stephen Street, Des Plaines River	15.5	13.4	15.1	17.2	13.8	12.3	14.2	16.6	14.9	16.7	9.0	
91 Material Service Road, Des Plaines River	15.8	13.8	15.0	17.1	13.2	12.5	16.2	15.1	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	14.9	13.2	15.1	15.3	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-51: pH MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	7.50	8.00	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	7.64	7.22	7.53	7.33	7.57	7.54	7.38	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.50	7.47	7.42	7.72	7.65	7.77	7.75	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.67	7.47	7.26	7.32	7.59	7.44	7.60	7.79	7.87	7.77	6.75	
104 Glenview Road, North Branch Chicago River	7.85	7.71	7.22	7.45	7.97	7.73	7.63	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.85	7.66	7.19	7.34	7.59	7.43	7.61	7.95	7.96	7.82	6.67	
105 Frontage Road, Skokie River	7.88	7.68	7.19	7.47	7.65	7.69	7.70	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.67	7.74	7.45	7.72	7.72	7.59	7.62	7.78	7.84	7.72	6.79	
96 Albany Avenue, North Branch Chicago River	7.77	7.59	7.30	7.53	7.69	7.81	7.40	7.65	ND	ND	ND	ND
35 Central Street, North Shore Channel	7.78	7.70	7.65	7.89	7.31	7.90	7.77	8.31	8.12	8.24	7.03	
102 Oakton Street, North Shore Channel	7.58	7.56	7.35	7.73	7.13	7.36	7.37	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.40	7.23	7.14	7.41	7.25	7.38	7.19	7.63	7.56	7.50	6.95	
101 Foster Avenue, North Shore Channel	7.25	7.13	7.18	7.27	7.13	7.28	7.14	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.44	7.39	7.32	7.59	7.50	7.44	7.29	7.57	7.58	7.68	6.99	
73 Diversey Parkway, North Branch Chicago River	7.21	7.36	7.23	7.37	7.26	7.45	7.12	7.59	7.41	7.84	7.16	
46 Grand Avenue, North Branch Chicago River	7.45	7.37	7.21	7.47	7.41	7.36	7.09	7.60	7.74	7.82	6.48	
74 Lake Shore Drive, Chicago River	7.60	7.75	7.52	7.73	7.33	7.43	7.95	7.70	8.09	8.15	7.96	
100 Wells Street, Chicago River	7.68	7.72	7.44	7.49	7.30	7.23	7.66	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.65	7.49	7.41	7.31	7.25	7.23	7.39	7.54	7.89	7.89	7.75	
108 Loomis Street, South Branch Chicago River	7.50	7.46	7.44	7.30	7.36	7.25	7.02	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.45	7.38	7.27	7.27	7.35	7.13	7.03	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.49	7.46	7.39	7.40	7.38	ND	ND	7.45	7.72	8.06	7.48	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	7.10	7.06	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.29	7.22	7.23	7.47	7.27	7.16	7.23	7.27	7.85	8.02	7.90	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.27	7.20	7.11	7.47	7.23	7.17	7.19	7.42	7.67	7.97	7.44	
42 Route 83, Chicago Sanitary & Ship Canal	7.13	6.92	7.08	7.40	7.12	7.22	7.13	7.32	7.71	7.98	7.54	
48 Stephen Street, Chicago Sanitary & Ship Canal	7.32	7.08	7.03	7.34	7.25	7.26	7.23	7.48	7.62	7.97	7.58	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	7.75	7.61	7.65	7.80	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.31	7.29	7.20	7.38	7.33	7.27	7.11	7.28	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	7.77	7.72	7.48	8.01	7.65	7.55	7.47	7.96	8.19	8.25	7.88	
50 Burnham Avenue, Wolf Lake	8.29	8.26	7.65	7.82	8.18	7.91	7.76	8.06	8.29	8.34	7.93	
55 130th Street, Calumet River	7.85	7.94	7.64	7.78	7.86	7.87	7.41	7.72	8.21	8.12	7.91	
86 Burnham Avenue, Grand Calumet River	7.64	7.43	7.30	7.51	7.58	7.73	7.39	7.74	7.79	7.94	7.47	
56 Indiana Avenue, Little Calumet River	7.65	7.81	7.06	7.67	7.73	7.63	7.79	7.73	8.10	8.03	7.75	
76 Halsted Street, Little Calumet River	7.40	7.51	7.11	7.40	7.36	7.35	7.21	7.47	7.82	7.56	7.49	
52 Wentworth Avenue, Little Calumet River	7.77	7.75	7.16	7.43	7.63	7.56	7.31	7.84	7.95	8.09	7.70	
54 Joe Orr Road, Thorn Creek	7.17	7.32	7.10	7.38	7.37	7.37	7.12	7.51	8.10	7.53	7.07	
97 170th Street, Thorn Creek	7.71	7.70	6.96	7.44	7.61	7.58	7.14	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.71	7.74	7.07	7.42	7.39	7.55	7.20	7.41	7.91	7.65	7.03	
58 Ashland Avenue, Calumet Sag Channel	7.42	7.40	6.91	7.33	7.47	7.37	7.26	7.31	7.78	7.92	7.78	
59 Cicero Avenue, Calumet Sag Channel	7.39	7.38	7.04	7.40	7.54	7.07	7.19	7.17	7.79	7.74	7.43	
43 Route 83, Calumet Sag Channel	7.51	7.55	7.25	7.46	7.66	6.99	7.16	7.17	7.72	7.74	7.63	
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	7.95	7.80	7.70	7.65	7.58	7.64	7.54	8.08	8.16	8.17	7.93	
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	7.40	ND	7.43	7.95	7.90	8.13	7.66	
89 Walnut Lane, West Branch DuPage River	7.59	7.43	7.40	7.44	7.37	7.46	7.42	8.13	7.89	7.90	7.67	
64 Lake Street, West Branch DuPage River	7.81	7.64	7.57	7.48	7.48	7.66	7.50	8.30	7.71	8.06	7.88	
79 Higgins Road, Salt Creek	7.80	7.94	7.39	7.54	7.54	7.74	7.50	8.16	8.24	8.29	8.09	
80 Arlington Heights Road, Salt Creek	7.59	7.50	7.45	7.42	7.34	7.56	7.44	8.16	7.87	7.97	7.94	
18 Devon Avenue, Salt Creek	7.63	7.55	7.44	7.35	7.39	7.26	7.58	8.03	7.85	7.87	7.82	
24 Wolf Road, Salt Creek	7.52	7.31	7.30	7.67	7.31	7.45	7.63	7.78	8.05	7.91	6.77	
109 Brookfield Avenue, Salt Creek	7.72	7.40	7.32	7.56	7.44	7.13	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	7.40	7.43	7.40	7.68	7.65	7.65	
77 Elmhurst Road, Higgins Creek	7.80	7.40	7.39	7.80	7.54	7.35	7.65	7.81	8.02	7.75	6.87	
78 Wille Road, Higgins Creek	7.67	7.54	7.37	7.66	7.58	7.14	7.72	7.60	7.77	7.75	6.66	
12 Lake-Cook Road, Buffalo Creek	7.70	7.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.69	7.68	7.44	7.77	7.62	7.52	7.68	7.92	7.80	7.93	7.92	
17 Oakton Street, Des Plaines River	7.79	7.57	7.44	7.63	7.67	7.34	7.69	7.75	7.89	7.78	7.92	
19 Belmont Avenue, Des Plaines River	7.83	7.67	7.45	7.62	7.68	7.40	7.65	7.64	7.78	7.74	8.05	
20 Roosevelt Road, Des Plaines River	7.84	7.89	7.49	7.67	7.71	7.32	7.59	7.68	7.77	7.70	7.78	
22 Ogden Avenue, Des Plaines River	7.96	7.50	7.49	7.63	7.46	7.49	7.55	7.12	7.43	7.65	7.95	
23 Willow Springs Road, Des Plaines River	7.79	7.62	7.62	7.63	7.59	7.60	7.66	7.83	8.13	7.87	6.47	
29 Stephen Street, Des Plaines River	7.72	7.64	7.55	7.51	7.67	7.82	7.71	7.82	8.12	7.96	6.74	
91 Material Service Road, Des Plaines River	7.98	7.87	7.74	7.65	7.80	7.85	7.40	7.65	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	7.76	7.54	7.43	7.49	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-52: ALKALINITY (TOTAL) MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	196	170	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	163	147	152	178	138	187	180	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	186	178	172	179	168	185	177	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	205	185	199	196	194	213	201	189	205	209	183
104 Glenview Road, North Branch Chicago River	173	165	156	182	170	183	189	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	215	184	183	209	191	210	210	200	191	231	200
105 Frontage Road, Skokie River	168	164	154	178	160	178	182	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	175	170	164	175	159	180	179	163	171	194	180
96 Albany Avenue, North Branch Chicago River	174	173	167	169	170	176	186	161	ND	ND	ND
35 Central Street, North Shore Channel	121	117	115	116	117	119	111	126	129	126	119
102 Oakton Street, North Shore Channel	133	134	126	137	128	130	119	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	142	144	136	151	140	149	151	137	142	152	144
101 Foster Avenue, North Shore Channel	142	145	135	144	137	149	142	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	145	146	138	159	139	148	156	141	152	161	162
73 Diversey Parkway, North Branch Chicago River	147	146	135	156	139	144	155	138	150	161	149
46 Grand Avenue, North Branch Chicago River	147	147	144	156	145	147	157	143	151	167	149
74 Lake Shore Drive, Chicago River	124	120	120	119	116	120	125	123	117	120	115
100 Wells Street, Chicago River	125	127	123	125	130	130	132	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	135	142	137	140	141	147	137	137	144	148	131
108 Loomis Street, South Branch Chicago River	136	143	142	136	138	154	137	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	135	147	138	142	133	148	157	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	136	142	138	138	136	ND	ND	136	149	152	132
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	150	139	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	137	158	140	142	132	153	141	135	140	144	133
41 Harlem Avenue, Chicago Sanitary & Ship Canal	131	130	126	132	117	137	139	121	129	137	131
42 Route 83, Chicago Sanitary & Ship Canal	138	139	138	137	126	140	137	126	131	140	137
48 Stephen Street, Chicago Sanitary & Ship Canal	142	146	142	143	138	158	144	158	139	142	143
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	143	135	149	244
92 Lockport Forebay, Chicago Sanitary & Ship Canal	146	143	138	140	133	141	148	137	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	113	113	109	111	110	110	112	115	115	111	116
50 Burnham Avenue, Wolf Lake	104	100	109	111	104	96	96	101	98	102	106
55 130th Street, Calumet River	114	112	112	116	111	117	116	116	117	114	118
86 Burnham Avenue, Grand Calumet River	262	248	170	203	196	176	165	168	155	141	158
56 Indiana Avenue, Little Calumet River	137	127	125	129	127	138	126	127	129	129	130
76 Halsted Street, Little Calumet River	162	162	153	159	146	156	159	154	158	153	153
52 Wentworth Avenue, Little Calumet River	208	222	175	206	208	225	190	195	193	200	215
54 Joe Orr Road, Thorn Creek	177	189	152	183	158	183	195	172	175	203	216
97 170th Street, Thorn Creek	176	205	172	186	172	190	182	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	174	208	168	180	182	194	174	190	184	179	199
58 Ashland Avenue, Calumet Sag Channel	156	167	154	158	155	167	163	159	156	142	164
59 Cicero Avenue, Calumet Sag Channel	154	171	150	150	151	157	161	161	156	156	159
43 Route 83, Calumet Sag Channel	151	168	151	153	150	152	161	162	159	156	161
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	210	190	188	216	185	209	207	196	239	230	182
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	118	ND	195	156	192	184	160
89 Walnut Lane, West Branch DuPage River	152	160	150	148	135	158	165	155	163	154	140
64 Lake Street, West Branch DuPage River	150	184	133	147	129	157	162	146	153	152	141
79 Higgins Road, Salt Creek	159	155	142	197	127	166	182	161	158	171	142
80 Arlington Heights Road, Salt Creek	133	142	136	149	133	151	147	136	166	145	140
18 Devon Avenue, Salt Creek	132	142	135	149	132	147	145	132	139	144	145
24 Wolf Road, Salt Creek	140	145	134	156	126	154	159	144	153	178	139
109 Brookfield Avenue, Salt Creek	139	144	133	160	125	128	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	185	161	150	150	161	140
77 Elmhurst Road, Higgins Creek	118	121	120	158	102	139	168	140	172	196	144
78 Wille Road, Higgins Creek	175	179	150	192	159	181	195	171	190	173	168
12 Lake-Cook Road, Buffalo Creek	188	181	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	201	189	179	196	168	214	210	191	253	207	184
17 Oakton Street, Des Plaines River	187	179	171	192	167	206	201	175	180	205	169
19 Belmont Avenue, Des Plaines River	179	177	167	189	155	192	203	172	177	199	176
20 Roosevelt Road, Des Plaines River	182	172	166	190	153	199	202	171	173	195	178
22 Ogden Avenue, Des Plaines River	164	163	151	176	155	181	190	160	164	185	167
23 Willow Springs Road, Des Plaines River	168	162	154	180	141	177	189	157	165	185	169
29 Stephen Street, Des Plaines River	172	169	159	180	149	181	188	165	166	184	176
91 Material Service Road, Des Plaines River	175	173	163	184	146	185	183	172	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	191	191	179	183	ND	ND	ND	ND	ND	ND	ND

ND = No Data



TABLE AII-53: CHLORIDE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	856	847	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	297	339	456	552	181	293	371	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	329	344	501	298	270	244	227	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	286	258	318	205	217	185	203	217	177	180	211
104 Glenview Road, North Branch Chicago River	258	222	258	265	215	171	177	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	290	214	310	239	220	190	218	242	185	183	250
105 Frontage Road, Skokie River	228	207	236	203	177	162	167	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	277	254	337	322	205	205	249	269	199	182	263
96 Albany Avenue, North Branch Chicago River	283	256	346	236	230	223	228	163	ND	ND	ND
35 Central Street, North Shore Channel	51	37	35	31	47	64	16	60	43	34	23
102 Oakton Street, North Shore Channel	133	90	135	104	80	99	36	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	212	116	150	172	143	105	152	150	154	110	116
101 Foster Avenue, North Shore Channel	231	134	165	143	123	111	121	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	249	145	209	183	159	133	192	202	193	133	178
73 Diversey Parkway, North Branch Chicago River	190	140	196	193	168	136	199	190	188	129	184
46 Grand Avenue, North Branch Chicago River	204	154	186	219	174	133	191	148	153	150	133
74 Lake Shore Drive, Chicago River	106	64	62	62	73	69	98	81	53	64	28
100 Wells Street, Chicago River	127	89	109	103	108	88	98	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	174	125	156	129	136	102	179	126	113	108	78
108 Loomis Street, South Branch Chicago River	207	143	158	141	137	122	96	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	190	110	150	148	134	127	117	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	218	137	153	142	137	ND	ND	134	107	136	98
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	122	138	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	228	136	156	161	150	130	148	124	106	149	105
41 Harlem Avenue, Chicago Sanitary & Ship Canal	267	146	162	167	149	124	170	166	155	143	137
42 Route 83, Chicago Sanitary & Ship Canal	187	151	170	221	156	144	203	139	171	147	157
48 Stephen Street, Chicago Sanitary & Ship Canal	165	152	164	179	160	156	202	126	139	149	155
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	225	151	134	153
92 Lockport Forebay, Chicago Sanitary & Ship Canal	194	158	181	195	166	151	187	179	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	46	44	38	31	35	40	59	51	42	31	23
50 Burnham Avenue, Wolf Lake	68	47	59	55	42	43	45	32	30	30	35
55 130th Street, Calumet River	88	83	75	69	64	68	93	74	67	53	57
86 Burnham Avenue, Grand Calumet River	144	155	137	138	176	200	180	177	198	192	190
56 Indiana Avenue, Little Calumet River	109	98	82	82	88	109	95	103	95	99	100
76 Halsted Street, Little Calumet River	181	153	174	154	133	127	162	150	139	122	136
52 Wentworth Avenue, Little Calumet River	132	122	140	160	179	189	137	155	143	109	136
54 Joe Orr Road, Thorn Creek	176	183	212	235	94	191	187	162	156	152	171
97 170th Street, Thorn Creek	158	182	228	222	217	194	163	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	171	174	205	200	193	173	168	190	171	139	185
58 Ashland Avenue, Calumet Sag Channel	161	161	180	167	155	147	167	164	131	101	191
59 Cicero Avenue, Calumet Sag Channel	167	155	171	167	150	145	167	168	136	136	166
43 Route 83, Calumet Sag Channel	164	150	144	156	142	144	179	168	130	135	143
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	277	279	278	241	201	220	229	143	157	199	197
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	154	ND	283	189	257	220	321
89 Walnut Lane, West Branch DuPage River	187	193	181	207	205	169	171	153	127	131	142
64 Lake Street, West Branch DuPage River	235	201	211	198	186	190	198	160	133	152	166
79 Higgins Road, Salt Creek	353	287	409	363	235	260	327	278	218	201	290
80 Arlington Heights Road, Salt Creek	268	280	323	225	241	213	234	219	177	178	235
18 Devon Avenue, Salt Creek	287	283	320	236	250	204	247	223	178	188	271
24 Wolf Road, Salt Creek	275	241	261	250	241	254	268	220	186	267	231
109 Brookfield Avenue, Salt Creek	271	257	258	264	208	135	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	654	260	213	184	216	214
77 Elmhurst Road, Higgins Creek	259	571	478	514	424	460	479	336	294	364	348
78 Wille Road, Higgins Creek	247	217	220	190	213	259	221	191	168	193	234
12 Lake-Cook Road, Buffalo Creek	272	259	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	184	210	221	176	202	188	158	152	184	151	154
17 Oakton Street, Des Plaines River	195	245	251	197	202	224	182	141	137	151	167
19 Belmont Avenue, Des Plaines River	208	250	230	225	255	236	188	153	146	160	187
20 Roosevelt Road, Des Plaines River	214	249	260	211	173	265	190	157	146	160	193
22 Ogden Avenue, Des Plaines River	228	244	255	218	261	269	205	170	153	172	214
23 Willow Springs Road, Des Plaines River	238	234	268	222	197	226	204	177	160	178	191
29 Stephen Street, Des Plaines River	242	236	255	212	210	267	199	175	157	183	232
91 Material Service Road, Des Plaines River	225	242	249	212	200	251	198	202	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	267	466	355	310	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-54: TURBIDITY MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (NTU)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	25.5	81.0	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	29.0	66.6	30.1	49.5	32.2	19.2	24.6	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	14.1	32.2	25.6	20.1	16.9	20.7	18.5	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	14.9	46.2	16.7	22.8	13.1	16.6	22.3	16.8	19.7	14.6	18.3
104 Glenview Road, North Branch Chicago River	13.7	32.9	15.2	18.2	14.7	15.3	14.1	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	14.6	37.0	16.8	19.8	12.6	13.4	15.6	13.0	17.6	13.4	12.2
105 Frontage Road, Skokie River	15.6	16.5	13.4	16.7	12.0	12.5	12.9	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	15.3	28.9	18.9	19.1	14.5	18.0	18.1	18.5	20.2	21.2	20.2
96 Albany Avenue, North Branch Chicago River	14.6	23.5	16.0	18.3	14.1	14.5	13.3	11.0	ND	ND	ND
35 Central Street, North Shore Channel	5.1	9.3	5.9	7.3	8.2	10.6	10.3	11.8	9.1	8.7	10.3
102 Oakton Street, North Shore Channel	10.3	13.2	12.2	11.3	11.6	14.1	14.4	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.2	5.8	6.5	7.6	7.1	8.1	6.7	8.1	7.5	6.8	7.0
101 Foster Avenue, North Shore Channel	5.1	5.9	7.0	7.5	8.0	9.5	8.7	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	8.2	9.3	9.5	10.5	9.2	11.3	11.4	9.7	10.1	8.7	9.5
73 Diversey Parkway, North Branch Chicago River	8.8	10.4	10.0	11.4	9.5	12.4	11.8	10.1	11.7	11.3	9.1
46 Grand Avenue, North Branch Chicago River	13.2	13.4	11.3	14.9	10.2	13.2	12.0	12.6	12.7	10.8	9.9
74 Lake Shore Drive, Chicago River	3.5	2.8	3.3	3.4	5.5	6.0	5.9	8.3	7.0	6.8	8.5
100 Wells Street, Chicago River	4.0	3.5	4.7	4.7	7.0	6.8	7.9	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	10.7	8.0	9.1	11.1	9.8	11.6	12.5	10.5	11.2	10.3	10.5
108 Loomis Street, South Branch Chicago River	10.1	11.3	9.6	10.7	9.1	10.0	12.6	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.4	8.8	8.7	9.9	9.3	10.4	12.5	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	11.8	11.4	10.4	11.5	10.3	ND	ND	12.7	11.2	10.6	11.2
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	11.0	12.9	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	8.6	13.1	11.6	13.7	10.5	10.6	13.6	12.8	13.8	10.8	11.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.0	6.9	6.4	6.9	7.2	8.3	8.5	9.3	9.7	7.2	8.9
42 Route 83, Chicago Sanitary & Ship Canal	6.9	5.4	5.8	6.6	8.0	8.6	8.0	8.2	7.8	9.5	8.3
48 Stephen Street, Chicago Sanitary & Ship Canal	10.2	11.6	11.5	11.4	9.9	9.9	10.4	11.1	9.4	11.7	11.9
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	9.0	11.2	10.6	10.6	9.5	10.0	11.4	11.5	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	4.0	7.2	5.6	7.7	6.9	7.5	9.8	10.6	9.8	9.8	9.5
50 Burnham Avenue, Wolf Lake	3.8	2.9	5.3	3.8	5.3	5.2	6.6	6.4	5.8	7.4	6.8
55 130th Street, Calumet River	6.3	6.3	5.9	6.4	7.8	9.4	10.8	13.5	8.0	9.4	10.7
86 Burnham Avenue, Grand Calumet River	10.3	12.8	25.3	11.5	9.4	9.3	10.0	12.5	11.1	8.4	10.5
56 Indiana Avenue, Little Calumet River	20.3	19.6	24.8	19.6	16.8	18.9	17.9	15.8	14.7	13.0	17.5
76 Halsted Street, Little Calumet River	8.4	9.3	10.2	11.1	8.4	10.3	11.1	10.3	8.8	11.2	15.2
52 Wentworth Avenue, Little Calumet River	31.2	33.6	32.2	30.9	16.1	22.6	24.7	33.0	30.1	30.6	43.8
54 Joe Orr Road, Thorn Creek	9.8	5.8	63.6	17.8	29.4	8.0	10.3	22.0	10.4	14.8	14.5
97 170th Street, Thorn Creek	25.4	26.5	46.2	29.2	19.8	14.9	27.6	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	28.2	24.3	42.5	27.5	20.1	16.6	26.2	21.3	22.5	37.8	34.3
58 Ashland Avenue, Calumet Sag Channel	16.6	11.5	13.4	14.7	14.5	12.0	14.8	13.3	13.8	12.9	26.2
59 Cicero Avenue, Calumet Sag Channel	18.8	14.3	14.2	17.8	14.3	14.6	15.2	13.3	14.8	16.4	21.1
43 Route 83, Calumet Sag Channel	14.5	18.6	14.2	15.7	20.7	16.2	22.0	18.5	15.4	17.1	26.4
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	7.9	20.3	14.7	10.0	17.1	11.9	13.2	18.6	16.2	11.8	40.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	22.6	ND	20.3	21.8	17.7	14.6	21.3
89 Walnut Lane, West Branch DuPage River	7.5	7.4	7.6	8.3	10.2	7.5	9.0	13.5	12.4	7.0	11.4
64 Lake Street, West Branch DuPage River	19.2	25.4	26.3	22.5	19.0	18.6	21.3	27.6	22.0	19.7	25.8
79 Higgins Road, Salt Creek	25.1	30.4	42.9	23.2	30.3	24.6	22.5	29.4	23.7	21.1	33.5
80 Arlington Heights Road, Salt Creek	9.1	9.8	6.5	5.7	8.1	6.9	9.8	10.8	11.2	7.0	12.3
18 Devon Avenue, Salt Creek	10.1	11.1	10.1	11.6	9.6	9.2	11.8	15.6	15.7	9.7	18.2
24 Wolf Road, Salt Creek	24.0	28.7	20.1	16.2	22.6	13.8	17.2	22.6	20.7	13.7	31.5
109 Brookfield Avenue, Salt Creek	21.1	32.5	23.3	17.0	27.8	13.0	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	12.9	18.1	23.0	22.0	14.9	29.8
77 Elmhurst Road, Higgins Creek	23.9	32.5	29.3	29.5	23.0	22.2	18.8	27.7	22.1	17.3	23.5
78 Wille Road, Higgins Creek	4.5	4.8	3.9	5.1	7.1	6.9	7.3	7.2	5.4	7.9	7.8
12 Lake-Cook Road, Buffalo Creek	26.7	25.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	16.5	20.7	19.4	18.5	18.7	15.8	16.9	23.9	22.0	18.6	30.1
17 Oakton Street, Des Plaines River	16.9	19.5	15.1	18.4	21.7	15.6	18.4	27.5	24.5	23.6	39.9
19 Belmont Avenue, Des Plaines River	18.6	20.7	17.6	17.1	20.8	17.1	16.7	20.4	19.3	16.7	34.8
20 Roosevelt Road, Des Plaines River	19.0	21.3	17.5	16.8	21.3	16.1	16.9	22.3	19.8	17.3	32.2
22 Ogden Avenue, Des Plaines River	21.7	28.3	23.8	16.3	24.2	15.0	17.3	23.6	19.7	17.6	33.7
23 Willow Springs Road, Des Plaines River	21.2	26.3	20.9	19.1	19.6	15.8	22.9	26.0	22.5	23.7	30.6
29 Stephen Street, Des Plaines River	18.0	26.2	23.0	20.2	20.9	15.9	26.0	26.6	24.4	24.3	30.1
91 Material Service Road, Des Plaines River	21.7	22.1	25.8	20.5	22.4	16.9	24.7	24.5	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	16.2	19.1	25.2	32.9	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-55: ELECTRICAL CONDUCTIVITY MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means ( $\mu\text{mhos}$ )											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	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	ND
103 Golf Road, West Fork North Branch Chicago River	ND	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	ND
104 Glenview Road, North Branch Chicago River	ND	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	ND
105 Frontage Road, Skokie River	ND	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	ND
96 Albany Avenue, North Branch Chicago River	ND	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	ND
102 Oakton Street, North Shore Channel	ND	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	ND
101 Foster Avenue, North Shore Channel	ND	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	ND
73 Diversey Parkway, North Branch Chicago River	ND	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	ND
74 Lake Shore Drive, Chicago River	ND	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	ND
39 Madison Street, South Branch Chicago River	ND	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	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	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	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	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	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	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	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	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	1235	935	930	1109	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	ND	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	ND
55 130th Street, Calumet River	ND	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	ND
56 Indiana Avenue, Little Calumet River	ND	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	ND
52 Wentworth Avenue, Little Calumet River	ND	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	ND
97 170th Street, Thorn Creek	ND	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	ND
58 Ashland Avenue, Calumet Sag Channel	ND	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	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	ND	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	ND
89 Walnut Lane, West Branch DuPage River	ND	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	ND
79 Higgins Road, Salt Creek	ND	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	ND
18 Devon Avenue, Salt Creek	ND	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	ND
109 Brookfield Avenue, Salt Creek	ND	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	ND
77 Elmhurst Road, Higgins Creek	ND	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	ND
12 Lake-Cook Road, Buffalo Creek	ND	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	ND
17 Oakton Street, Des Plaines River	ND	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	ND
20 Roosevelt Road, Des Plaines River	ND	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	ND
23 Willow Springs Road, Des Plaines River	ND	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	ND
91 Material Service Road, Des Plaines River	ND	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

ND = No Data

TABLE AII-56: TOTAL KJELDAHL NITROGEN MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1.32	2.18	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.30	1.90	1.31	1.58	1.88	1.52	2.16	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.34	1.36	1.41	1.04	1.25	2.01	1.50	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.20	1.09	1.36	1.05	1.24	1.26	1.34	1.67	1.13	0.98	1.22
104 Glenview Road, North Branch Chicago River	1.27	1.54	1.22	0.99	1.33	1.21	1.43	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.08	1.29	1.67	1.08	0.97	1.18	1.17	1.09	1.02	0.80	1.16
105 Frontage Road, Skokie River	1.31	1.32	1.25	0.96	1.16	1.26	1.36	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.23	1.43	1.22	1.04	1.12	1.58	1.71	1.45	1.21	1.03	1.47
96 Albany Avenue, North Branch Chicago River	1.16	1.27	1.31	0.94	1.17	1.40	1.96	1.60	ND	ND	ND
35 Central Street, North Shore Channel	0.58	0.57	0.39	0.54	0.84	1.02	0.63	1.05	1.27	0.76	0.38
102 Oakton Street, North Shore Channel	1.27	1.41	1.54	1.45	1.91	1.81	1.10	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	2.07	1.99	3.08	2.35	2.75	2.60	2.66	2.65	2.48	2.08	2.83
101 Foster Avenue, North Shore Channel	2.39	2.07	3.53	3.31	3.02	2.98	2.70	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.92	1.97	3.19	3.07	2.63	2.60	2.66	3.10	3.34	2.20	2.93
73 Diversey Parkway, North Branch Chicago River	1.79	1.71	2.25	2.20	2.39	2.33	2.43	2.52	2.20	1.58	2.44
46 Grand Avenue, North Branch Chicago River	1.94	1.85	2.82	2.26	2.16	2.51	2.34	2.40	2.18	1.94	2.27
74 Lake Shore Drive, Chicago River	0.55	0.48	0.73	0.66	0.73	0.67	1.01	1.10	0.63	0.43	0.50
100 Wells Street, Chicago River	0.85	0.87	1.15	1.25	1.59	1.10	1.08	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	1.44	1.46	2.32	1.93	2.35	2.46	1.94	2.36	1.75	1.67	1.36
108 Loomis Street, South Branch Chicago River	1.47	1.71	2.33	2.00	1.69	2.03	1.60	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.57	1.49	2.46	2.07	2.07	2.62	3.35	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.45	1.64	2.31	1.99	1.97	ND	ND	2.31	1.80	1.31	1.85
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	2.20	2.02	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.47	1.70	2.10	1.80	1.96	2.15	1.92	1.99	1.64	1.48	1.51
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.75	1.55	1.93	1.20	1.51	1.68	1.91	1.72	1.43	1.50	2.05
42 Route 83, Chicago Sanitary & Ship Canal	1.79	1.61	1.81	1.45	1.62	1.97	1.94	1.65	1.70	1.86	2.48
48 Stephen Street, Chicago Sanitary & Ship Canal	1.56	1.74	1.76	1.32	1.57	1.91	1.87	1.93	1.71	1.49	2.05
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1.96	1.77	1.71	1.90
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.55	1.61	1.67	1.38	1.58	1.66	1.86	1.83	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.34	0.38	0.25	0.18	0.23	0.35	0.41	0.51	0.59	0.48	0.37
50 Burnham Avenue, Wolf Lake	0.85	0.74	0.73	0.57	0.52	0.49	0.62	0.73	0.47	0.55	0.72
55 130th Street, Calumet River	0.77	0.76	0.70	0.45	0.58	0.71	0.85	0.66	0.69	0.49	0.51
86 Burnham Avenue, Grand Calumet River	4.57	3.19	4.31	2.65	3.85	2.89	2.58	4.32	3.34	2.10	1.98
56 Indiana Avenue, Little Calumet River	1.13	1.09	0.84	0.88	1.02	1.02	1.05	1.01	1.10	1.00	1.20
76 Halsted Street, Little Calumet River	1.34	1.35	1.26	1.00	1.16	1.39	1.58	1.50	1.38	1.27	1.66
52 Wentworth Avenue, Little Calumet River	1.51	1.64	1.61	1.45	1.58	1.58	1.73	2.03	2.39	2.65	1.53
54 Joe Orr Road, Thorn Creek	1.50	1.42	1.55	1.27	1.19	1.47	1.53	1.92	1.43	1.23	1.38
97 170th Street, Thorn Creek	1.43	1.28	1.34	1.11	1.28	1.46	1.58	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.39	1.43	1.58	1.15	1.23	1.42	1.60	1.46	1.44	1.42	1.40
58 Ashland Avenue, Calumet Sag Channel	1.40	1.47	1.30	1.03	1.22	1.35	1.55	1.50	1.37	1.11	1.62
59 Cicero Avenue, Calumet Sag Channel	1.28	1.50	1.41	1.19	1.26	1.49	1.67	2.22	1.46	1.37	1.83
43 Route 83, Calumet Sag Channel	1.41	1.37	1.25	1.15	1.32	1.50	1.94	1.45	1.42	1.25	1.92
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.99	1.13	0.94	0.68	1.03	0.87	1.03	1.31	1.78	0.74	1.22
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1.93	ND	1.88	1.66	1.81	1.66	1.82
89 Walnut Lane, West Branch DuPage River	1.85	1.72	1.93	1.56	2.28	1.83	2.30	2.37	2.64	2.34	2.12
64 Lake Street, West Branch DuPage River	2.01	1.84	2.09	1.93	2.37	2.05	2.53	2.70	2.25	2.52	2.42
79 Higgins Road, Salt Creek	1.51	1.45	1.41	1.07	1.47	1.60	1.49	1.82	1.17	1.31	1.36
80 Arlington Heights Road, Salt Creek	1.24	1.37	1.16	1.27	1.84	1.83	1.64	1.74	1.46	1.45	1.58
18 Devon Avenue, Salt Creek	1.12	1.38	1.42	1.35	1.86	1.87	1.74	1.73	1.47	1.33	1.51
24 Wolf Road, Salt Creek	1.19	1.38	1.25	0.91	1.48	1.44	1.52	1.61	1.23	1.12	1.56
109 Brookfield Avenue, Salt Creek	1.18	1.53	1.23	0.88	1.48	1.41	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	1.56	1.39	1.62	1.42	1.05	1.50
77 Elmhurst Road, Higgins Creek	0.96	1.38	1.29	0.74	1.40	1.31	1.34	1.41	1.29	0.82	0.92
78 Wille Road, Higgins Creek	1.60	1.84	1.51	1.45	1.49	1.65	1.85	2.35	1.74	1.37	2.10
12 Lake-Cook Road, Buffalo Creek	1.37	1.21	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.38	1.40	1.34	0.98	1.51	1.78	1.48	1.82	1.22	1.26	1.33
17 Oakton Street, Des Plaines River	1.27	1.39	1.31	1.02	1.54	1.52	1.55	1.58	1.18	1.24	1.36
19 Belmont Avenue, Des Plaines River	1.45	1.46	1.28	0.96	1.66	1.42	1.66	2.27	1.13	1.26	1.54
20 Roosevelt Road, Des Plaines River	1.28	1.37	1.20	1.03	1.65	1.35	1.56	1.57	1.14	1.29	1.58
22 Ogden Avenue, Des Plaines River	1.27	1.45	1.25	0.92	2.00	1.36	1.60	1.49	1.11	1.48	1.75
23 Willow Springs Road, Des Plaines River	1.22	1.50	1.23	0.99	1.26	1.57	1.69	1.67	1.08	1.39	1.39
29 Stephen Street, Des Plaines River	1.26	1.42	1.29	1.02	1.52	1.50	1.87	1.35	1.15	1.52	1.67
91 Material Service Road, Des Plaines River	1.20	1.49	1.29	1.02	1.62	1.49	1.63	1.63	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	2.04	2.35	2.49	2.35	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-57: AMMONIUM NITROGEN MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.300	0.470	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.323	0.714	0.228	0.565	0.327	0.145	0.445	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.221	0.251	0.265	0.232	0.215	0.797	0.277	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.145	0.119	0.190	0.205	0.178	0.124	0.139	0.169	0.038	0.048	0.109
104 Glenview Road, North Branch Chicago River	0.175	0.198	0.144	0.223	0.113	0.086	0.103	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.198	0.213	0.320	0.166	0.221	0.110	0.190	0.187	0.077	0.083	0.091
105 Frontage Road, Skokie River	0.121	0.114	0.152	0.166	0.103	0.058	0.100	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.164	0.201	0.154	0.191	0.167	0.361	0.336	0.158	0.039	0.064	0.099
96 Albany Avenue, North Branch Chicago River	0.110	0.108	0.153	0.158	0.153	0.241	0.477	0.413	ND	ND	ND
35 Central Street, North Shore Channel	0.166	0.139	0.071	0.310	0.331	0.313	0.183	0.301	0.348	0.413	0.020
102 Oakton Street, North Shore Channel	0.521	0.553	0.773	0.885	0.930	0.696	0.376	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.837	0.685	1.718	1.348	1.548	0.987	1.063	1.273	0.921	0.911	1.470
101 Foster Avenue, North Shore Channel	1.210	0.876	2.104	2.176	1.828	1.428	1.185	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.879	0.770	1.881	2.005	1.365	1.153	1.083	1.653	1.772	1.158	1.701
73 Diversey Parkway, North Branch Chicago River	0.698	0.643	1.091	1.276	1.197	0.959	0.863	1.227	0.883	0.583	1.368
46 Grand Avenue, North Branch Chicago River	0.710	0.638	1.617	1.415	1.216	1.171	0.968	1.201	0.954	0.992	1.272
74 Lake Shore Drive, Chicago River	0.185	0.105	0.400	0.339	0.348	0.238	0.413	0.372	0.215	0.137	0.067
100 Wells Street, Chicago River	0.297	0.229	0.583	0.686	0.798	0.500	0.462	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.574	0.541	1.361	1.197	1.270	1.142	0.879	0.906	0.822	0.538	0.607
108 Loomis Street, South Branch Chicago River	0.513	0.730	1.360	1.251	0.819	0.988	0.587	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.637	0.620	1.320	1.136	1.062	1.123	1.715	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.563	0.618	1.277	1.185	0.969	ND	ND	1.116	0.847	0.524	0.920
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.968	0.878	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.590	0.617	1.175	1.107	0.941	0.869	0.769	0.843	0.793	0.403	0.721
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.556	0.364	0.941	0.508	0.499	0.534	0.754	0.438	0.357	0.495	0.716
42 Route 83, Chicago Sanitary & Ship Canal	0.687	0.482	0.816	0.649	0.643	0.655	0.756	0.630	0.604	0.636	1.184
48 Stephen Street, Chicago Sanitary & Ship Canal	0.478	0.544	0.797	0.564	0.598	0.718	0.721	0.692	0.601	0.486	0.858
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.619	0.449	0.343	0.444
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.516	0.479	0.654	0.635	0.588	0.502	0.654	0.595	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.087	0.057	0.109	0.114	0.124	0.063	0.108	0.113	0.056	0.044	0.010
50 Burnham Avenue, Wolf Lake	0.132	0.098	0.183	0.203	0.118	0.018	0.087	0.092	0.056	0.018	0.003
55 130th Street, Calumet River	0.161	0.180	0.235	0.240	0.249	0.098	0.214	0.195	0.124	0.114	0.083
86 Burnham Avenue, Grand Calumet River	2.218	1.434	1.659	1.399	1.735	0.952	0.934	1.586	1.059	0.417	0.632
56 Indiana Avenue, Little Calumet River	0.306	0.193	0.199	0.256	0.317	0.115	0.127	0.307	0.276	0.307	0.396
76 Halsted Street, Little Calumet River	0.295	0.259	0.284	0.298	0.268	0.188	0.355	0.332	0.332	0.348	0.488
52 Wentworth Avenue, Little Calumet River	0.290	0.178	0.365	0.360	0.319	0.230	0.274	0.278	0.297	0.161	0.181
54 Joe Orr Road, Thorn Creek	0.295	0.153	0.240	0.324	0.127	0.116	0.110	0.380	0.057	0.034	0.124
97 170th Street, Thorn Creek	0.191	0.135	0.315	0.304	0.248	0.253	0.275	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.232	0.154	0.355	0.379	0.330	0.182	0.248	0.295	0.232	0.183	0.204
58 Ashland Avenue, Calumet Sag Channel	0.301	0.302	0.320	0.298	0.294	0.186	0.415	0.374	0.346	0.291	0.484
59 Cicero Avenue, Calumet Sag Channel	0.263	0.278	0.360	0.356	0.256	0.252	0.448	0.490	0.406	0.336	0.526
43 Route 83, Calumet Sag Channel	0.310	0.261	0.321	0.438	0.260	0.317	0.513	0.336	0.375	0.309	0.659
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.094	0.113	0.108	0.107	0.149	0.034	0.105	0.106	0.067	0.075	0.074
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.240	ND	0.305	0.154	0.131	0.135	0.225
89 Walnut Lane, West Branch DuPage River	0.242	0.122	0.273	0.332	0.482	0.117	0.294	0.341	0.367	0.192	0.191
64 Lake Street, West Branch DuPage River	0.340	0.252	0.482	0.552	0.596	0.287	0.460	0.645	0.421	0.601	0.415
79 Higgins Road, Salt Creek	0.129	0.111	0.100	0.140	0.214	0.090	0.106	0.172	0.067	0.118	0.076
80 Arlington Heights Road, Salt Creek	0.107	0.114	0.157	0.382	0.465	0.299	0.192	0.145	0.090	0.178	0.137
18 Devon Avenue, Salt Creek	0.112	0.124	0.193	0.313	0.501	0.360	0.228	0.161	0.093	0.243	0.132
24 Wolf Road, Salt Creek	0.162	0.153	0.163	0.195	0.241	0.218	0.171	0.196	0.127	0.155	0.131
109 Brookfield Avenue, Salt Creek	0.174	0.154	0.166	0.186	0.211	0.178	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.347	0.160	0.192	0.105	0.134	0.121
77 Elmhurst Road, Higgins Creek	0.172	0.199	0.123	0.180	0.240	0.107	0.187	0.134	0.116	0.158	0.107
78 Wille Road, Higgins Creek	0.353	0.405	0.269	0.437	0.331	0.211	0.250	0.396	0.245	0.297	0.515
12 Lake-Cook Road, Buffalo Creek	0.110	0.117	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.103	0.086	0.190	0.179	0.162	0.091	0.104	0.143	0.108	0.177	0.083
17 Oakton Street, Des Plaines River	0.099	0.115	0.145	0.192	0.150	0.071	0.093	0.107	0.075	0.100	0.075
19 Belmont Avenue, Des Plaines River	0.117	0.124	0.143	0.273	0.198	0.118	0.157	0.177	0.116	0.223	0.171
20 Roosevelt Road, Des Plaines River	0.088	0.107	0.143	0.188	0.166	0.097	0.140	0.145	0.093	0.183	0.205
22 Ogden Avenue, Des Plaines River	0.130	0.122	0.161	0.134	0.144	0.107	0.127	0.150	0.089	0.128	0.190
23 Willow Springs Road, Des Plaines River	0.131	0.147	0.124	0.155	0.162	0.072	0.134	0.160	0.089	0.175	0.080
29 Stephen Street, Des Plaines River	0.105	0.133	0.111	0.109	0.166	0.100	0.121	0.146	0.077	0.151	0.128
91 Material Service Road, Des Plaines River	0.085	0.137	0.122	0.119	0.161	0.057	0.115	0.140	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.344	0.555	0.454	0.541	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-58: UN-IONIZED AMMONIA MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.001	0.004	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.002	0.002	0.006	0.006	0.001	0.007	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.002	0.003	0.005	0.003	0.008	0.007	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.003	0.001	0.002	0.002	0.003	0.001	0.002	0.006	0.001	0.002	0.002	0.002
104 Glenview Road, North Branch Chicago River	0.004	0.003	0.002	0.002	0.003	0.001	0.003	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.005	0.003	0.011	0.002	0.003	0.001	0.003	0.007	0.002	0.001	0.002	0.002
105 Frontage Road, Skokie River	0.002	0.003	0.001	0.002	0.001	0.001	0.004	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.005	0.002	0.003	0.002	0.003	0.003	0.005	0.001	0.001	0.003	0.003
96 Albany Avenue, North Branch Chicago River	0.002	0.003	0.002	0.002	0.002	0.004	0.007	0.004	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.002	0.002	0.002	0.009	0.003	0.008	0.004	0.020	0.008	0.030	0.002	0.002
102 Oakton Street, North Shore Channel	0.005	0.004	0.005	0.011	0.007	0.006	0.003	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.007	0.005	0.012	0.010	0.009	0.013	0.007	0.051	0.021	0.035	0.027	0.027
101 Foster Avenue, North Shore Channel	0.009	0.005	0.019	0.011	0.007	0.011	0.006	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.008	0.007	0.021	0.035	0.017	0.010	0.011	0.058	0.033	0.052	0.050	0.050
73 Diversey Parkway, North Branch Chicago River	0.004	0.016	0.009	0.012	0.008	0.007	0.003	0.037	0.015	0.082	0.053	0.053
46 Grand Avenue, North Branch Chicago River	0.007	0.005	0.012	0.017	0.010	0.011	0.004	0.017	0.023	0.049	0.009	0.009
74 Lake Shore Drive, Chicago River	0.002	0.002	0.004	0.005	0.002	0.002	0.008	0.005	0.005	0.007	0.003	0.003
100 Wells Street, Chicago River	0.004	0.003	0.005	0.006	0.004	0.003	0.010	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.008	0.007	0.014	0.007	0.006	0.007	0.008	0.011	0.051	0.023	0.007	0.007
108 Loomis Street, South Branch Chicago River	0.006	0.009	0.017	0.012	0.007	0.014	0.004	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.006	0.009	0.008	0.008	0.010	0.018	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	0.007	0.011	0.011	0.007	ND	ND	0.012	0.026	0.081	0.013	0.013
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.009	0.006	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.006	0.005	0.023	0.011	0.008	0.019	0.005	0.007	0.031	0.051	0.051	0.051
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.002	0.007	0.006	0.003	0.003	0.005	0.006	0.006	0.021	0.010	0.010
42 Route 83, Chicago Sanitary & Ship Canal	0.004	0.002	0.006	0.006	0.003	0.004	0.004	0.006	0.019	0.031	0.016	0.016
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.003	0.003	0.004	0.003	0.005	0.004	0.008	0.015	0.020	0.009	0.009
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.005	0.007	0.007	0.006	0.005	0.004	0.008	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.002	0.001	0.001	0.004	0.002	0.002	0.002	0.005	0.003	0.003	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.022	0.012	0.003	0.004	0.008	0.001	0.003	0.005	0.003	0.001	0.000	0.000
55 130th Street, Calumet River	0.004	0.005	0.004	0.005	0.006	0.004	0.002	0.004	0.005	0.005	0.001	0.001
86 Burnham Avenue, Grand Calumet River	0.044	0.012	0.015	0.016	0.048	0.024	0.009	0.048	0.028	0.009	0.003	0.003
56 Indiana Avenue, Little Calumet River	0.005	0.008	0.001	0.003	0.004	0.002	0.004	0.024	0.012	0.014	0.006	0.006
76 Halsted Street, Little Calumet River	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.005	0.009	0.007	0.017	0.017
52 Wentworth Avenue, Little Calumet River	0.006	0.004	0.002	0.004	0.005	0.003	0.003	0.011	0.007	0.010	0.003	0.003
54 Joe Orr Road, Thorn Creek	0.003	0.003	0.001	0.002	0.001	0.001	0.001	0.006	0.005	0.001	0.010	0.010
97 170th Street, Thorn Creek	0.003	0.003	0.001	0.003	0.003	0.004	0.002	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.003	0.004	0.002	0.009	0.004	0.002	0.002	0.003	0.012	0.007	0.020	0.020
58 Ashland Avenue, Calumet Sag Channel	0.004	0.002	0.001	0.002	0.003	0.002	0.003	0.004	0.012	0.021	0.020	0.020
59 Cicero Avenue, Calumet Sag Channel	0.003	0.003	0.002	0.003	0.003	0.001	0.006	0.003	0.015	0.012	0.022	0.022
43 Route 83, Calumet Sag Channel	0.004	0.004	0.002	0.006	0.004	0.001	0.009	0.003	0.030	0.023	0.043	0.043
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.007	0.004	0.003	0.002	0.002
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.003	ND	0.002	0.011	0.003	0.014	0.003	0.003
89 Walnut Lane, West Branch DuPage River	0.003	0.001	0.003	0.003	0.004	0.001	0.004	0.038	0.018	0.006	0.002	0.002
64 Lake Street, West Branch DuPage River	0.007	0.003	0.005	0.005	0.005	0.006	0.006	0.148	0.018	0.035	0.008	0.008
79 Higgins Road, Salt Creek	0.003	0.004	0.002	0.001	0.002	0.004	0.001	0.024	0.007	0.011	0.002	0.002
80 Arlington Heights Road, Salt Creek	0.002	0.001	0.006	0.003	0.004	0.002	0.002	0.024	0.003	0.008	0.010	0.010
18 Devon Avenue, Salt Creek	0.002	0.002	0.006	0.002	0.005	0.002	0.011	0.029	0.003	0.011	0.003	0.003
24 Wolf Road, Salt Creek	0.002	0.002	0.002	0.003	0.002	0.003	0.003	0.004	0.012	0.003	0.003	0.003
109 Brookfield Avenue, Salt Creek	0.003	0.002	0.002	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.001	0.002	0.002	0.013	0.003	0.002	0.002
77 Elmhurst Road, Higgins Creek	0.004	0.002	0.003	0.003	0.003	0.001	0.004	0.004	0.016	0.005	0.003	0.003
78 Wille Road, Higgins Creek	0.006	0.005	0.003	0.007	0.005	0.001	0.005	0.006	0.022	0.007	0.059	0.059
12 Lake-Cook Road, Buffalo Creek	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.001	0.003	0.004	0.002	0.002	0.002	0.014	0.007	0.011	0.002	0.002
17 Oakton Street, Des Plaines River	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.002	0.016	0.002	0.002	0.002
19 Belmont Avenue, Des Plaines River	0.003	0.002	0.002	0.004	0.004	0.001	0.003	0.002	0.017	0.005	0.005	0.005
20 Roosevelt Road, Des Plaines River	0.002	0.003	0.001	0.004	0.004	0.001	0.002	0.004	0.014	0.003	0.002	0.002
22 Ogden Avenue, Des Plaines River	0.004	0.002	0.002	0.002	0.001	0.001	0.002	0.001	0.011	0.003	0.027	0.027
23 Willow Springs Road, Des Plaines River	0.003	0.003	0.003	0.002	0.003	0.001	0.002	0.004	0.010	0.004	0.003	0.003
29 Stephen Street, Des Plaines River	0.002	0.002	0.002	0.001	0.003	0.002	0.002	0.005	0.010	0.005	0.004	0.004
91 Material Service Road, Des Plaines River	0.002	0.004	0.003	0.002	0.003	0.002	0.003	0.003	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.007	0.007	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-59: ORGANIC NITROGEN MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1.02	1.71	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.98	1.19	1.08	1.01	1.56	1.38	1.71	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.12	1.11	1.15	0.81	1.04	1.21	1.22	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.06	0.97	1.17	0.85	1.06	1.14	1.20	1.50	1.09	0.93	1.11
104 Glenview Road, North Branch Chicago River	1.10	1.34	1.07	0.77	1.22	1.12	1.33	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.88	1.08	1.35	0.91	0.75	1.07	0.98	0.91	0.95	0.72	1.07
105 Frontage Road, Skokie River	1.19	1.20	1.10	0.80	1.05	1.20	1.26	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.07	1.23	1.06	0.85	0.95	1.22	1.38	1.29	1.17	0.97	1.37
96 Albany Avenue, North Branch Chicago River	1.05	1.16	1.16	0.78	1.01	1.15	1.48	1.19	ND	ND	ND
35 Central Street, North Shore Channel	0.41	0.44	0.32	0.24	0.51	0.71	0.44	0.75	0.92	0.42	0.36
102 Oakton Street, North Shore Channel	0.75	0.86	0.77	0.57	0.98	1.11	0.73	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.24	1.32	1.37	1.00	1.21	1.61	1.60	1.37	1.56	1.17	1.36
101 Foster Avenue, North Shore Channel	1.18	1.20	1.43	1.14	1.19	1.55	1.52	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.04	1.20	1.31	1.06	1.27	1.45	1.57	1.45	1.56	1.04	1.23
73 Diversey Parkway, North Branch Chicago River	1.09	1.07	1.16	0.92	1.20	1.37	1.57	1.30	1.31	1.00	1.07
46 Grand Avenue, North Branch Chicago River	1.23	1.22	1.20	0.84	0.94	1.34	1.37	1.20	1.23	0.95	0.99
74 Lake Shore Drive, Chicago River	0.37	0.37	0.34	0.31	0.38	0.43	0.59	0.73	0.41	0.31	0.44
100 Wells Street, Chicago River	0.55	0.64	0.57	0.56	0.79	0.60	0.61	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.86	0.92	0.95	0.73	1.08	1.32	1.06	1.46	0.93	1.13	0.76
108 Loomis Street, South Branch Chicago River	0.96	0.98	0.97	0.75	0.87	1.04	1.01	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.93	0.87	1.14	0.94	1.01	1.50	1.64	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.88	1.03	1.03	0.81	1.00	ND	ND	1.20	0.95	0.79	0.93
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1.23	1.14	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.88	1.08	0.92	0.70	1.02	1.28	1.15	1.14	0.85	1.07	0.87
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.19	1.18	0.99	0.69	1.01	1.15	1.16	1.28	1.07	1.01	1.33
42 Route 83, Chicago Sanitary & Ship Canal	1.11	1.13	0.99	0.80	0.98	1.31	1.18	1.02	1.09	1.22	1.30
48 Stephen Street, Chicago Sanitary & Ship Canal	1.08	1.20	0.96	0.76	0.98	1.19	1.15	1.24	1.11	1.00	1.19
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1.35	1.33	1.37	1.45
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.04	1.13	1.02	0.75	0.99	1.16	1.21	1.24	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.25	0.32	0.15	0.09	0.12	0.29	0.30	0.40	0.57	0.44	0.36
50 Burnham Avenue, Wolf Lake	0.71	0.64	0.55	0.37	0.40	0.47	0.53	0.64	0.46	0.53	0.72
55 130th Street, Calumet River	0.61	0.58	0.47	0.20	0.33	0.61	0.64	0.46	0.56	0.38	0.43
86 Burnham Avenue, Grand Calumet River	2.35	1.76	2.65	1.25	2.12	1.94	1.64	2.73	2.29	1.69	1.35
56 Indiana Avenue, Little Calumet River	0.83	0.90	0.64	0.69	0.69	0.90	0.92	0.70	0.82	0.69	0.80
76 Halsted Street, Little Calumet River	1.04	1.10	0.98	0.70	0.89	1.20	1.23	1.17	1.05	0.92	1.17
52 Wentworth Avenue, Little Calumet River	1.22	1.46	1.25	1.09	1.26	1.35	1.46	1.75	2.09	2.49	1.35
54 Joe Orr Road, Thorn Creek	1.21	1.27	1.31	0.94	1.06	1.36	1.42	1.54	1.37	1.19	1.25
97 170th Street, Thorn Creek	1.24	1.14	1.02	0.81	1.03	1.21	1.30	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.16	1.28	1.23	0.77	0.90	1.24	1.35	1.16	1.21	1.24	1.20
58 Ashland Avenue, Calumet Sag Channel	1.09	1.17	0.98	0.73	0.93	1.16	1.13	1.12	1.03	0.82	1.13
59 Cicero Avenue, Calumet Sag Channel	1.02	1.22	1.05	0.83	1.01	1.24	1.22	1.73	1.06	1.04	1.31
43 Route 83, Calumet Sag Channel	1.10	1.11	0.93	0.72	1.06	1.19	1.43	1.12	1.05	0.94	1.26
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.90	1.02	0.83	0.57	0.88	0.83	0.92	1.20	1.71	0.66	1.14
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1.69	ND	1.58	1.50	1.68	1.52	1.60
89 Walnut Lane, West Branch DuPage River	1.61	1.59	1.66	1.23	1.79	1.71	2.00	2.03	2.27	2.15	1.93
64 Lake Street, West Branch DuPage River	1.67	1.59	1.61	1.37	1.77	1.77	2.07	2.06	1.83	1.92	2.01
79 Higgins Road, Salt Creek	1.38	1.33	1.31	0.93	1.25	1.51	1.38	1.65	1.11	1.19	1.29
80 Arlington Heights Road, Salt Creek	1.13	1.26	1.01	0.88	1.37	1.53	1.45	1.60	1.37	1.27	1.44
18 Devon Avenue, Salt Creek	1.01	1.26	1.22	1.04	1.36	1.51	1.52	1.57	1.38	1.09	1.37
24 Wolf Road, Salt Creek	1.03	1.22	1.09	0.71	1.23	1.23	1.35	1.41	1.10	0.97	1.43
109 Brookfield Avenue, Salt Creek	1.00	1.38	1.07	0.70	1.27	1.23	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	1.22	1.23	1.43	1.32	0.92	1.38
77 Elmhurst Road, Higgins Creek	0.79	1.18	1.17	0.56	1.16	1.20	1.16	1.28	1.17	0.66	0.81
78 Wille Road, Higgins Creek	1.25	1.43	1.24	1.01	1.16	1.44	1.60	1.95	1.50	1.07	1.58
12 Lake-Cook Road, Buffalo Creek	1.26	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.27	1.32	1.15	0.80	1.35	1.69	1.38	1.68	1.12	1.08	1.25
17 Oakton Street, Des Plaines River	1.17	1.27	1.16	0.83	1.39	1.45	1.45	1.48	1.11	1.14	1.28
19 Belmont Avenue, Des Plaines River	1.33	1.33	1.13	0.68	1.47	1.30	1.51	2.09	1.01	1.03	1.37
20 Roosevelt Road, Des Plaines River	1.19	1.26	1.06	0.84	1.48	1.25	1.42	1.43	1.04	1.10	1.38
22 Ogden Avenue, Des Plaines River	1.14	1.33	1.09	0.79	1.86	1.26	1.47	1.34	1.02	1.35	1.56
23 Willow Springs Road, Des Plaines River	1.09	1.35	1.11	0.83	1.10	1.50	1.56	1.51	0.99	1.22	1.31
29 Stephen Street, Des Plaines River	1.16	1.28	1.18	0.91	1.35	1.40	1.74	1.20	1.08	1.36	1.54
91 Material Service Road, Des Plaines River	1.12	1.36	1.17	0.90	1.45	1.44	1.51	1.49	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	1.70	1.80	2.04	1.81	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-60: NITRITE PLUS NITRATE NITROGEN MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	2.60	7.57	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	4.63	3.68	7.14	9.95	5.27	4.00	5.14	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	3.49	3.11	3.88	2.86	2.97	4.03	3.11	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.24	0.42	0.24	0.33	0.35	0.38	0.37	0.35	0.41	0.51	0.43
104 Glenview Road, North Branch Chicago River	4.52	3.92	5.93	4.79	3.81	4.67	3.22	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.46	3.15	3.41	0.77	1.07	0.46	0.46	0.52	0.55	0.58	0.80
105 Frontage Road, Skokie River	5.58	5.33	7.00	5.74	6.42	5.83	3.87	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	3.97	3.74	5.06	4.24	5.10	4.57	2.65	4.51	4.93	3.85	5.13
96 Albany Avenue, North Branch Chicago River	4.07	3.83	4.64	4.75	4.24	4.24	3.05	5.37	ND	ND	ND
35 Central Street, North Shore Channel	0.31	0.34	0.23	0.35	1.00	0.34	0.28	0.29	0.32	0.22	0.25
102 Oakton Street, North Shore Channel	3.33	3.81	2.44	2.13	2.25	3.66	1.27	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	6.53	6.01	5.24	5.37	5.90	5.58	5.57	5.59	5.67	5.74	5.56
101 Foster Avenue, North Shore Channel	7.58	7.19	5.97	5.93	6.72	6.11	6.69	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.29	6.94	6.29	6.26	6.50	5.84	5.94	6.17	6.28	6.38	5.87
73 Diversey Parkway, North Branch Chicago River	6.47	6.41	6.04	6.50	6.02	5.29	5.48	5.49	6.23	5.46	5.16
46 Grand Avenue, North Branch Chicago River	6.43	6.22	5.77	5.36	5.86	5.47	4.86	5.63	5.51	5.27	4.74
74 Lake Shore Drive, Chicago River	1.31	1.04	1.07	1.50	1.38	1.38	1.93	1.84	1.08	0.96	0.39
100 Wells Street, Chicago River	2.29	2.15	2.22	2.52	3.41	2.31	2.33	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.41	4.03	4.37	4.68	5.19	4.37	3.61	4.28	4.33	3.41	2.39
108 Loomis Street, South Branch Chicago River	4.39	4.30	4.35	4.76	4.40	4.27	3.45	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.91	3.67	4.05	4.17	4.52	3.55	2.55	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.15	4.25	4.22	4.64	4.73	ND	ND	4.42	3.42	3.21	2.84
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.24	3.27	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.50	3.84	4.06	4.63	4.49	4.30	3.54	4.30	3.58	3.04	2.89
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.11	7.41	7.67	7.64	7.84	6.81	6.26	7.00	7.01	6.97	6.18
42 Route 83, Chicago Sanitary & Ship Canal	6.08	6.00	5.97	6.93	7.17	6.24	5.61	5.84	5.80	5.64	5.57
48 Stephen Street, Chicago Sanitary & Ship Canal	5.59	5.59	5.51	6.27	6.36	5.77	5.27	5.15	5.10	5.10	5.07
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	6.13	4.87	4.48	4.59
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.45	5.90	6.01	5.74	6.24	5.94	5.31	5.52	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.37	0.38	0.37	0.36	0.35	0.50	0.46	0.38	0.36	0.34	0.31
50 Burnham Avenue, Wolf Lake	0.16	0.09	0.13	0.11	0.09	0.10	0.16	0.09	0.78	0.12	0.23
55 130th Street, Calumet River	0.68	0.71	0.60	0.52	0.48	0.57	0.67	0.56	0.53	0.48	0.52
86 Burnham Avenue, Grand Calumet River	1.81	4.68	5.19	5.00	5.91	8.56	9.06	8.48	8.48	12.32	11.89
56 Indiana Avenue, Little Calumet River	1.40	1.86	1.37	1.36	1.78	2.39	1.95	1.86	1.79	3.18	4.04
76 Halsted Street, Little Calumet River	5.17	5.91	5.33	4.79	4.57	5.36	4.80	4.32	4.27	4.14	4.55
52 Wentworth Avenue, Little Calumet River	4.18	4.25	4.27	3.57	4.16	5.39	3.32	4.18	4.53	3.82	3.75
54 Joe Orr Road, Thorn Creek	9.18	9.88	6.39	7.33	7.67	9.86	6.81	7.92	7.68	6.80	6.79
97 170th Street, Thorn Creek	5.49	5.32	5.97	5.67	6.76	7.13	4.04	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	3.25	4.08	3.67	3.06	4.01	4.35	3.07	4.31	3.71	2.82	3.64
58 Ashland Avenue, Calumet Sag Channel	4.26	5.66	5.17	4.51	4.57	5.39	4.57	4.22	3.32	3.59	3.78
59 Cicero Avenue, Calumet Sag Channel	3.92	5.32	5.22	4.58	4.48	5.39	4.26	4.26	3.40	3.78	3.91
43 Route 83, Calumet Sag Channel	4.69	4.78	5.35	4.38	4.11	4.67	4.25	4.20	3.37	3.50	3.97
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.29	0.53	0.39	0.34	0.61	0.28	0.49	0.39	0.46	0.44	1.81
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1.74	ND	1.32	0.63	2.88	2.57	2.13
89 Walnut Lane, West Branch DuPage River	7.98	8.57	8.85	9.43	7.58	7.13	7.24	6.98	8.01	8.34	8.89
64 Lake Street, West Branch DuPage River	7.34	8.38	8.64	8.83	7.32	6.70	6.79	5.78	6.86	8.52	7.87
79 Higgins Road, Salt Creek	0.23	0.26	0.27	0.25	0.45	0.23	0.28	0.47	0.26	0.51	0.29
80 Arlington Heights Road, Salt Creek	7.10	6.77	7.98	6.01	6.22	7.69	6.92	6.27	7.07	7.46	5.18
18 Devon Avenue, Salt Creek	7.01	6.92	8.19	6.40	6.46	7.32	7.22	6.40	7.31	7.24	4.70
24 Wolf Road, Salt Creek	6.47	6.22	8.12	6.54	6.71	7.66	5.87	5.27	6.67	6.97	5.84
109 Brookfield Avenue, Salt Creek	5.56	5.67	6.98	5.78	5.42	8.16	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	5.10	5.34	4.80	6.35	6.94	6.57
77 Elmhurst Road, Higgins Creek	0.40	0.57	0.44	0.47	0.55	0.41	0.58	0.46	0.34	0.34	0.45
78 Wille Road, Higgins Creek	5.83	5.46	9.44	5.42	4.85	5.67	5.44	4.25	4.99	6.96	5.85
12 Lake-Cook Road, Buffalo Creek	0.31	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.26	6.56	7.69	6.53	6.79	6.05	4.94	5.24	5.02	4.92	4.35
17 Oakton Street, Des Plaines River	4.09	5.24	6.43	5.46	4.97	4.84	4.18	3.80	5.32	4.23	3.66
19 Belmont Avenue, Des Plaines River	3.95	4.86	5.93	4.69	4.56	4.62	3.87	3.54	4.54	4.00	3.87
20 Roosevelt Road, Des Plaines River	3.81	4.54	5.49	4.38	4.40	4.50	3.69	3.42	4.26	3.83	3.75
22 Ogden Avenue, Des Plaines River	3.95	4.89	5.79	4.70	5.91	5.21	3.98	3.78	5.02	4.75	4.45
23 Willow Springs Road, Des Plaines River	4.13	4.82	5.69	4.67	4.30	4.93	3.85	3.89	4.77	4.58	4.44
29 Stephen Street, Des Plaines River	4.40	5.08	6.04	4.69	5.03	5.18	3.70	3.91	4.61	4.64	4.55
91 Material Service Road, Des Plaines River	4.28	4.86	6.26	4.39	4.83	4.98	3.68	4.52	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.62	0.96	0.69	1.22	ND	ND	ND	ND	ND	ND	ND

ND = No Data



**TABLE AII-61: TOTAL SOLIDS MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1941	1948	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1603	900	1050	1300	645	926	941	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1146	919	1232	776	790	749	741	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	797	794	888	646	687	693	708	770	693	749	727
104 Glenview Road, North Branch Chicago River	761	704	756	711	733	631	631	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	823	709	858	712	682	661	737	828	704	772	840
105 Frontage Road, Skokie River	696	654	696	622	637	606	611	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	850	752	885	808	880	688	754	863	726	729	859
96 Albany Avenue, North Branch Chicago River	854	802	934	684	651	724	674	616	ND	ND	ND
35 Central Street, North Shore Channel	260	229	244	250	292	321	230	363	299	276	246
102 Oakton Street, North Shore Channel	443	381	423	344	359	416	270	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	646	475	511	511	491	461	542	574	573	529	512
101 Foster Avenue, North Shore Channel	704	491	546	493	469	478	473	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	750	527	613	565	561	520	616	654	663	596	585
73 Diversey Parkway, North Branch Chicago River	613	522	570	543	565	514	642	654	655	592	622
46 Grand Avenue, North Branch Chicago River	674	555	597	591	610	503	602	587	596	620	547
74 Lake Shore Drive, Chicago River	365	256	274	300	312	314	403	402	297	320	235
100 Wells Street, Chicago River	409	337	369	382	409	366	378	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	548	456	483	464	500	469	565	517	484	492	370
108 Loomis Street, South Branch Chicago River	592	497	476	459	495	476	419	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	560	425	474	471	484	476	451	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	616	481	477	487	485	ND	ND	552	486	536	435
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	482	488	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	647	481	495	514	502	498	522	517	478	547	435
41 Harlem Avenue, Chicago Sanitary & Ship Canal	764	529	530	550	531	506	584	619	613	608	555
42 Route 83, Chicago Sanitary & Ship Canal	616	548	578	597	568	557	636	566	608	595	580
48 Stephen Street, Chicago Sanitary & Ship Canal	606	584	591	607	602	580	630	633	581	623	617
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	812	634	632	658
92 Lockport Forebay, Chicago Sanitary & Ship Canal	647	584	618	622	610	576	643	680	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	242	245	223	234	241	268	302	282	260	327	222
50 Burnham Avenue, Wolf Lake	295	241	279	275	245	247	265	255	231	286	265
55 130th Street, Calumet River	395	354	300	340	334	341	395	364	342	341	328
86 Burnham Avenue, Grand Calumet River	747	865	665	787	911	874	799	934	913	990	940
56 Indiana Avenue, Little Calumet River	478	428	370	410	405	475	414	489	461	514	523
76 Halsted Street, Little Calumet River	648	590	559	579	547	547	622	697	664	589	647
52 Wentworth Avenue, Little Calumet River	679	700	612	745	828	838	706	835	772	740	814
54 Joe Orr Road, Thorn Creek	1417	1490	1293	1530	979	1602	1230	1140	1096	1182	1273
97 170th Street, Thorn Creek	1009	1099	1252	1165	1308	1285	861	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	830	877	925	885	951	913	779	965	905	782	918
58 Ashland Avenue, Calumet Sag Channel	605	638	632	626	609	700	668	753	641	605	739
59 Cicero Avenue, Calumet Sag Channel	622	683	625	666	633	618	656	775	663	639	734
43 Route 83, Calumet Sag Channel	628	642	626	630	625	621	674	760	664	673	717
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	784	804	766	756	662	711	733	657	672	810	776
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	646	ND	888	698	869	827	1020
89 Walnut Lane, West Branch DuPage River	647	656	619	650	608	591	645	651	622	615	628
64 Lake Street, West Branch DuPage River	670	683	701	697	632	661	710	658	630	684	709
79 Higgins Road, Salt Creek	974	804	1075	960	701	746	896	895	734	776	852
80 Arlington Heights Road, Salt Creek	789	788	733	679	668	666	743	749	670	709	781
18 Devon Avenue, Salt Creek	782	806	866	751	714	648	754	771	693	734	861
24 Wolf Road, Salt Creek	814	737	823	762	739	774	783	821	757	955	833
109 Brookfield Avenue, Salt Creek	786	765	809	812	707	565	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	1387	810	806	731	854	816
77 Elmhurst Road, Higgins Creek	650	1163	1110	1213	908	958	1120	879	858	1015	930
78 Wille Road, Higgins Creek	786	712	716	707	672	764	785	733	700	786	833
12 Lake-Cook Road, Buffalo Creek	816	819	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	664	736	742	699	713	707	676	709	627	714	713
17 Oakton Street, Des Plaines River	657	777	779	689	663	733	711	679	642	738	717
19 Belmont Avenue, Des Plaines River	688	779	783	749	749	758	702	675	637	720	765
20 Roosevelt Road, Des Plaines River	704	771	775	732	648	774	703	681	639	724	775
22 Ogden Avenue, Des Plaines River	720	759	778	732	712	813	743	713	665	745	804
23 Willow Springs Road, Des Plaines River	743	744	773	724	670	732	724	732	673	761	772
29 Stephen Street, Des Plaines River	728	758	772	702	667	754	733	734	671	768	846
91 Material Service Road, Des Plaines River	720	771	805	731	708	788	712	798	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	902	1173	1077	986	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-62: TOTAL VOLATILE SOLIDS MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	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	ND
103 Golf Road, West Fork North Branch Chicago River	ND	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	4.3
104 Glenview Road, North Branch Chicago River	ND	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	3.9
105 Frontage Road, Skokie River	ND	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	5.8
96 Albany Avenue, North Branch Chicago River	ND	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	2.8
102 Oakton Street, North Shore Channel	ND	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	4.6
101 Foster Avenue, North Shore Channel	ND	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	3.6
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2
100 Wells Street, Chicago River	ND	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	2.3
108 Loomis Street, South Branch Chicago River	ND	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	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	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	3.2
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	138.9	112.8	135.8	15.2	15.2
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.3
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
97 170th Street, Thorn Creek	ND	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	7.8
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.4
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.6
109 Brookfield Avenue, Salt Creek	ND	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	9.5
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5
12 Lake-Cook Road, Buffalo Creek	ND	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	7.3
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.6
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.3
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.6
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.5
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4
91 Material Service Road, Des Plaines River	ND	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

ND = No Data

**TABLE AII-63: TOTAL SUSPENDED SOLIDS MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	71.0	120.0	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	25.5	93.4	31.5	56.1	50.7	39.8	46.8	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	12.2	34.0	29.7	23.6	25.6	28.5	32.1	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	16.4	69.3	24.2	22.0	21.2	30.6	38.8	22.6	24.7	36.2	22.7
104 Glenview Road, North Branch Chicago River	14.2	50.1	18.8	22.8	30.3	25.9	22.8	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	16.4	47.9	21.6	21.0	18.7	18.1	21.8	14.3	24.0	15.2	13.2
105 Frontage Road, Skokie River	18.5	23.8	18.4	25.2	19.4	21.6	22.4	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	17.2	39.8	25.3	21.8	20.9	30.2	25.8	28.6	29.6	31.8	27.4
96 Albany Avenue, North Branch Chicago River	16.8	28.3	16.8	22.5	20.3	24.4	21.6	15.0	ND	ND	ND
35 Central Street, North Shore Channel	5.3	9.4	8.5	11.3	9.9	12.8	9.8	13.6	9.9	8.9	10.8
102 Oakton Street, North Shore Channel	11.8	16.5	11.6	15.2	19.7	20.5	16.6	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.0	11.7	10.9	15.4	9.4	15.3	8.5	10.8	10.3	10.3	9.4
101 Foster Avenue, North Shore Channel	5.7	12.3	12.2	12.7	9.6	15.4	10.4	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	8.3	14.3	15.0	13.9	12.3	18.5	16.8	15.0	13.0	10.6	12.3
73 Diversey Parkway, North Branch Chicago River	10.6	15.3	13.2	15.1	14.1	19.3	17.9	15.3	16.5	14.9	11.8
46 Grand Avenue, North Branch Chicago River	16.3	17.3	14.5	21.3	13.5	18.3	17.6	15.2	17.2	12.0	13.4
74 Lake Shore Drive, Chicago River	5.6	7.1	5.3	4.9	2.5	4.0	4.8	12.8	6.0	5.3	8.6
100 Wells Street, Chicago River	4.7	9.0	4.5	6.3	6.4	6.3	10.0	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	18.3	14.5	8.7	14.0	11.6	18.4	16.8	15.2	16.3	12.3	11.1
108 Loomis Street, South Branch Chicago River	18.5	16.2	12.6	11.8	12.5	12.2	17.9	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	10.1	12.4	12.5	13.2	11.8	14.4	19.8	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	17.9	17.8	12.7	14.6	13.7	ND	ND	19.1	14.0	13.4	13.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	19.3	19.6	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	16.6	19.2	13.0	17.8	13.9	15.1	20.8	16.5	18.5	13.7	14.2
41 Harlem Avenue, Chicago Sanitary & Ship Canal	15.3	12.3	9.6	8.5	8.1	11.6	10.8	11.5	13.2	10.0	12.2
42 Route 83, Chicago Sanitary & Ship Canal	21.8	11.7	7.5	9.0	10.6	11.5	12.1	8.8	8.3	10.5	11.2
48 Stephen Street, Chicago Sanitary & Ship Canal	23.8	18.2	15.0	15.8	16.2	13.4	15.2	16.8	11.5	15.3	15.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	19.2	37.0	57.4	64.3
92 Lockport Forebay, Chicago Sanitary & Ship Canal	12.9	15.8	14.5	14.6	14.7	15.1	15.5	15.6	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	5.8	7.3	6.7	9.7	8.7	7.1	11.3	12.6	12.3	15.3	10.8
50 Burnham Avenue, Wolf Lake	5.2	6.1	5.3	5.4	5.8	3.6	7.4	4.7	5.4	10.7	8.2
55 130th Street, Calumet River	6.8	8.5	6.5	7.7	9.3	12.5	20.7	14.0	8.6	10.4	12.3
86 Burnham Avenue, Grand Calumet River	18.5	21.0	49.9	18.9	17.0	16.2	16.9	23.5	16.4	18.2	14.6
56 Indiana Avenue, Little Calumet River	21.6	24.4	25.0	22.0	29.9	27.8	29.6	22.2	26.4	18.0	24.5
76 Halsted Street, Little Calumet River	10.6	12.9	11.3	14.8	10.5	15.2	15.4	11.6	12.7	20.7	26.3
52 Wentworth Avenue, Little Calumet River	44.7	44.1	37.9	32.4	28.7	30.5	53.5	55.4	67.3	94.4	67.2
54 Joe Orr Road, Thorn Creek	7.1	9.9	115.4	17.6	42.0	7.4	11.6	24.1	16.6	15.2	14.6
97 170th Street, Thorn Creek	35.5	32.4	55.4	40.5	30.2	24.1	38.3	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	34.6	26.5	45.7	30.5	33.0	23.0	39.4	28.5	34.9	57.3	42.0
58 Ashland Avenue, Calumet Sag Channel	17.5	16.6	15.0	18.8	24.4	17.3	27.7	17.9	18.2	18.9	35.4
59 Cicero Avenue, Calumet Sag Channel	20.3	24.9	14.3	20.3	24.0	21.1	20.7	19.8	22.3	27.6	28.5
43 Route 83, Calumet Sag Channel	16.6	20.1	15.5	20.1	35.9	25.9	35.8	28.2	23.7	24.3	40.0
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	13.9	25.2	15.9	15.3	30.4	18.9	18.2	36.4	23.1	17.7	49.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	36.0	ND	30.3	40.0	21.1	22.6	25.6
89 Walnut Lane, West Branch DuPage River	15.3	10.8	12.3	15.4	18.3	16.1	18.8	23.5	19.6	13.5	16.8
64 Lake Street, West Branch DuPage River	27.5	34.0	38.5	32.5	40.3	33.2	42.0	45.9	35.5	32.8	37.7
79 Higgins Road, Salt Creek	33.0	31.2	41.4	25.5	44.6	38.0	33.9	41.2	33.7	29.0	41.0
80 Arlington Heights Road, Salt Creek	10.2	10.2	9.8	9.0	8.8	8.3	11.3	11.7	14.4	8.5	14.8
18 Devon Avenue, Salt Creek	16.3	14.1	14.2	19.0	19.9	15.7	23.1	27.4	31.3	13.8	35.8
24 Wolf Road, Salt Creek	30.6	39.4	28.9	23.1	43.3	23.4	31.0	37.6	33.0	24.7	48.4
109 Brookfield Avenue, Salt Creek	25.1	42.7	25.1	19.9	56.1	18.7	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	20.7	29.3	40.6	33.6	26.3	52.9
77 Elmhurst Road, Higgins Creek	26.4	45.3	29.3	29.2	34.8	36.0	28.2	39.3	43.9	22.8	30.1
78 Wille Road, Higgins Creek	6.5	5.4	3.4	7.6	5.9	7.0	5.5	12.4	5.0	11.9	12.8
12 Lake-Cook Road, Buffalo Creek	41.1	29.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	21.8	27.3	24.0	23.2	36.8	28.7	29.8	33.8	32.8	32.3	42.4
17 Oakton Street, Des Plaines River	22.9	26.1	17.9	23.0	42.1	28.8	29.8	45.9	36.2	40.5	50.3
19 Belmont Avenue, Des Plaines River	26.5	29.4	23.2	22.3	41.8	28.5	26.3	32.2	27.7	24.0	53.3
20 Roosevelt Road, Des Plaines River	26.5	26.9	23.8	21.7	43.4	31.0	26.6	31.0	27.3	25.0	50.1
22 Ogden Avenue, Des Plaines River	29.7	36.3	30.6	21.3	52.6	23.2	27.3	34.3	29.7	27.6	56.9
23 Willow Springs Road, Des Plaines River	23.9	27.8	22.3	24.0	33.4	24.0	33.2	43.9	30.5	37.9	44.1
29 Stephen Street, Des Plaines River	22.8	29.3	29.8	26.5	41.6	28.3	44.1	42.5	39.4	38.6	46.1
91 Material Service Road, Des Plaines River	25.9	27.7	35.0	28.2	46.1	30.1	45.1	38.7	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	22.3	17.9	30.5	49.2	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-64: VOLATILE SUSPENDED SOLIDS MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	12.00	19.00	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2.25	13.60	6.75	9.38	13.33	6.50	7.60	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	2.91	7.42	7.40	7.30	5.63	5.64	6.20	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	3.90	11.91	5.10	4.30	4.78	6.00	6.36	4.60	5.09	6.25	ND
104 Glenview Road, North Branch Chicago River	3.55	11.67	5.50	5.42	7.33	5.22	5.30	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	3.20	9.08	6.00	5.20	4.56	4.70	4.45	3.50	4.64	3.50	ND
105 Frontage Road, Skokie River	4.64	8.50	5.75	5.50	5.33	4.58	5.60	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	2.55	11.75	6.55	5.25	4.91	6.08	5.67	6.45	5.82	6.42	ND
96 Albany Avenue, North Branch Chicago River	3.73	6.25	5.55	5.27	5.10	5.33	6.33	4.50	ND	ND	ND
35 Central Street, North Shore Channel	2.00	3.11	3.38	1.67	2.56	3.78	2.22	3.56	2.80	2.33	ND
102 Oakton Street, North Shore Channel	3.75	5.33	3.58	3.75	4.10	5.27	3.00	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	2.58	5.08	4.92	4.92	4.33	5.08	3.83	4.50	4.08	4.08	ND
101 Foster Avenue, North Shore Channel	1.83	5.33	4.23	4.75	3.33	5.50	3.60	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	3.08	5.58	4.75	3.92	3.83	4.75	4.92	4.83	3.58	3.00	ND
73 Diversey Parkway, North Branch Chicago River	3.25	4.83	3.50	3.67	3.83	5.08	5.08	3.75	3.75	3.33	ND
46 Grand Avenue, North Branch Chicago River	4.27	5.83	3.92	4.58	3.42	4.50	4.25	3.75	3.67	2.83	ND
74 Lake Shore Drive, Chicago River	1.55	4.82	1.40	0.33	0.90	1.25	1.42	4.67	1.64	1.50	ND
100 Wells Street, Chicago River	1.45	6.83	1.42	0.67	2.17	1.67	3.00	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	3.36	6.92	1.50	1.92	3.09	4.25	3.33	3.75	3.83	3.25	ND
108 Loomis Street, South Branch Chicago River	3.50	6.83	2.60	2.50	2.92	2.33	3.89	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	2.55	6.29	4.36	4.75	3.83	4.25	7.70	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	3.42	8.00	3.00	3.00	3.33	ND	ND	4.11	3.18	3.17	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.50	4.40	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.08	7.00	2.50	4.17	3.67	3.00	5.00	3.67	3.83	3.17	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.67	5.83	3.50	1.67	2.50	2.92	3.17	3.58	3.64	3.17	ND
42 Route 83, Chicago Sanitary & Ship Canal	3.91	6.67	2.09	1.83	3.00	2.42	3.17	2.36	2.75	3.08	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	5.36	7.50	2.91	2.17	3.58	2.58	3.42	3.82	2.73	3.42	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	4.71	7.39	12.08	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.00	4.88	3.21	2.94	3.69	3.48	3.57	3.68	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	1.20	2.09	3.09	0.40	1.25	1.42	1.58	2.00	2.05	2.21	ND
50 Burnham Avenue, Wolf Lake	2.91	4.00	2.50	1.58	2.83	1.58	3.45	2.08	2.25	4.33	ND
55 130th Street, Calumet River	1.90	2.55	2.27	0.45	1.70	2.67	4.09	2.73	1.94	1.96	ND
86 Burnham Avenue, Grand Calumet River	8.70	9.18	20.90	8.67	8.20	7.09	5.90	10.00	5.55	7.83	ND
56 Indiana Avenue, Little Calumet River	3.56	5.27	4.67	3.67	5.00	4.58	5.38	3.92	4.74	3.39	ND
76 Halsted Street, Little Calumet River	2.27	4.91	3.58	2.00	2.55	3.67	4.25	2.75	3.00	7.46	ND
52 Wentworth Avenue, Little Calumet River	6.82	7.27	7.55	5.89	5.50	5.45	9.55	9.91	19.73	17.00	ND
54 Joe Orr Road, Thorn Creek	1.70	2.89	19.13	2.71	6.67	2.71	2.58	4.83	3.25	4.17	ND
97 170th Street, Thorn Creek	4.09	5.82	7.64	6.45	5.60	4.17	5.90	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5.18	6.18	9.00	5.10	6.30	4.75	6.70	4.91	5.91	9.33	ND
58 Ashland Avenue, Calumet Sag Channel	3.09	5.73	2.58	3.92	5.00	3.58	5.83	3.50	3.63	3.44	ND
59 Cicero Avenue, Calumet Sag Channel	3.64	6.55	3.00	3.08	4.91	4.25	4.17	3.25	4.00	5.00	ND
43 Route 83, Calumet Sag Channel	4.00	4.36	4.55	4.30	5.64	5.50	6.25	5.00	4.00	4.33	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	3.36	6.17	4.91	3.60	6.20	4.78	4.45	6.29	4.70	4.00	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	8.00	ND	4.00	9.00	5.22	6.25	ND
89 Walnut Lane, West Branch DuPage River	3.67	4.33	5.58	5.18	6.36	4.58	4.75	6.42	5.91	5.50	ND
64 Lake Street, West Branch DuPage River	8.33	8.58	10.08	8.09	8.75	7.33	9.00	10.55	7.82	8.17	ND
79 Higgins Road, Salt Creek	9.70	9.00	11.11	8.50	9.56	9.38	9.30	10.10	10.30	8.70	ND
80 Arlington Heights Road, Salt Creek	3.17	5.08	4.75	3.55	3.67	3.30	3.75	3.67	3.73	3.67	ND
18 Devon Avenue, Salt Creek	5.83	6.00	4.50	4.82	5.50	4.10	5.00	5.33	5.27	3.42	ND
24 Wolf Road, Salt Creek	6.91	9.42	6.58	5.20	8.00	5.25	5.50	6.60	5.55	5.17	ND
109 Brookfield Avenue, Salt Creek	6.00	9.25	5.17	5.80	9.80	3.67	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	5.00	4.75	6.80	5.91	4.50	ND
77 Elmhurst Road, Higgins Creek	5.20	11.00	9.50	7.60	7.00	6.83	6.36	8.60	9.55	4.92	ND
78 Wille Road, Higgins Creek	3.25	3.17	1.17	3.40	2.50	2.58	2.75	4.00	2.55	3.83	ND
12 Lake-Cook Road, Buffalo Creek	8.67	7.44	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.50	8.33	5.75	6.80	7.58	7.50	6.92	6.50	5.64	6.50	ND
17 Oakton Street, Des Plaines River	5.73	7.58	6.08	5.30	8.70	7.09	6.17	8.80	6.45	8.33	ND
19 Belmont Avenue, Des Plaines River	6.82	8.17	5.83	5.50	7.75	5.75	5.83	5.60	4.82	5.08	ND
20 Roosevelt Road, Des Plaines River	5.36	8.00	7.00	5.40	7.86	6.08	5.75	5.70	5.00	4.50	ND
22 Ogden Avenue, Des Plaines River	7.09	8.75	7.00	4.70	11.00	5.33	5.92	6.10	5.09	5.42	ND
23 Willow Springs Road, Des Plaines River	5.73	7.75	6.17	5.90	7.00	6.00	6.75	7.80	5.64	7.25	ND
29 Stephen Street, Des Plaines River	4.64	8.83	7.75	7.20	8.82	6.58	9.50	7.30	7.45	8.42	ND
91 Material Service Road, Des Plaines River	5.64	7.50	8.92	8.00	9.83	7.50	8.98	8.06	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	8.40	5.91	13.55	10.44	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-65: TOTAL DISSOLVED SOLIDS MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1870	1828	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1577	807	1018	1244	595	886	894	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1134	885	1202	753	764	721	709	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	780	724	864	624	666	663	669	747	669	713	705
104 Glenview Road, North Branch Chicago River	747	654	737	689	703	605	608	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	806	661	836	691	664	643	715	814	680	757	827
105 Frontage Road, Skokie River	677	630	677	596	617	584	589	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	832	712	860	786	859	658	729	835	697	697	832
96 Albany Avenue, North Branch Chicago River	837	773	917	662	630	700	652	601	ND	ND	ND
35 Central Street, North Shore Channel	254	219	236	239	282	309	220	350	289	267	235
102 Oakton Street, North Shore Channel	432	364	412	329	339	395	254	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	641	464	500	496	481	446	534	563	563	519	502
101 Foster Avenue, North Shore Channel	698	479	534	480	460	463	463	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	741	513	598	551	548	501	600	639	650	585	572
73 Diversey Parkway, North Branch Chicago River	603	507	557	528	551	495	624	639	639	577	610
46 Grand Avenue, North Branch Chicago River	658	538	582	570	597	485	585	572	579	608	533
74 Lake Shore Drive, Chicago River	359	249	269	295	309	310	398	389	291	315	227
100 Wells Street, Chicago River	404	328	364	376	403	360	368	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	530	441	474	450	488	450	548	502	467	480	359
108 Loomis Street, South Branch Chicago River	573	481	463	448	482	463	401	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	549	413	461	458	473	462	431	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	599	463	464	472	471	ND	ND	533	472	522	421
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	463	469	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	630	462	482	496	488	483	502	501	459	533	421
41 Harlem Avenue, Chicago Sanitary & Ship Canal	749	517	520	541	523	495	574	607	600	598	543
42 Route 83, Chicago Sanitary & Ship Canal	594	536	571	588	558	546	624	558	600	585	569
48 Stephen Street, Chicago Sanitary & Ship Canal	583	565	576	591	586	566	615	616	570	607	601
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	792	597	574	594
92 Lockport Forebay, Chicago Sanitary & Ship Canal	634	568	604	602	595	561	628	665	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	236	237	217	225	232	261	290	269	247	313	211
50 Burnham Avenue, Wolf Lake	289	235	273	269	239	243	258	250	226	275	257
55 130th Street, Calumet River	388	345	293	332	325	329	374	350	334	329	318
86 Burnham Avenue, Grand Calumet River	728	844	615	768	894	858	782	911	897	972	925
56 Indiana Avenue, Little Calumet River	457	404	345	388	375	447	385	466	440	496	503
76 Halsted Street, Little Calumet River	637	577	548	564	536	532	606	685	651	564	626
52 Wentworth Avenue, Little Calumet River	634	656	574	712	800	808	653	780	705	645	747
54 Joe Orr Road, Thorn Creek	1409	1480	1178	1512	937	1594	1218	1116	1080	1167	1258
97 170th Street, Thorn Creek	974	1066	1196	1124	1277	1261	822	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	795	851	879	854	918	890	739	937	870	725	876
58 Ashland Avenue, Calumet Sag Channel	588	621	617	608	585	683	641	735	622	588	708
59 Cicero Avenue, Calumet Sag Channel	602	658	611	646	609	597	636	756	639	614	706
43 Route 83, Calumet Sag Channel	612	622	610	610	589	595	638	732	638	649	675
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	770	779	750	740	631	692	715	620	649	792	726
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	610	ND	858	658	848	804	994
89 Walnut Lane, West Branch DuPage River	631	645	607	635	590	575	626	628	603	602	611
64 Lake Street, West Branch DuPage River	643	649	663	654	592	627	668	612	595	651	671
79 Higgins Road, Salt Creek	941	773	1034	903	656	708	862	854	700	747	811
80 Arlington Heights Road, Salt Creek	779	778	723	663	659	658	732	738	655	701	766
18 Devon Avenue, Salt Creek	766	792	851	721	694	632	731	743	662	721	825
24 Wolf Road, Salt Creek	783	698	794	723	696	750	752	784	724	931	785
109 Brookfield Avenue, Salt Creek	761	722	784	772	650	547	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	1366	780	765	697	828	763
77 Elmhurst Road, Higgins Creek	623	1118	1081	1040	873	922	1092	840	814	992	900
78 Wille Road, Higgins Creek	780	706	713	688	666	757	780	721	695	774	821
12 Lake-Cook Road, Buffalo Creek	775	790	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	642	709	718	664	677	678	646	675	594	682	670
17 Oakton Street, Des Plaines River	634	751	761	651	620	704	681	633	606	697	667
19 Belmont Avenue, Des Plaines River	662	749	760	707	708	730	676	643	609	696	712
20 Roosevelt Road, Des Plaines River	677	744	752	691	605	743	676	650	611	699	725
22 Ogden Avenue, Des Plaines River	690	723	747	691	660	790	716	679	635	718	747
23 Willow Springs Road, Des Plaines River	719	716	751	675	637	708	690	688	642	723	728
29 Stephen Street, Des Plaines River	705	729	743	648	625	726	689	692	632	729	800
91 Material Service Road, Des Plaines River	694	743	770	679	662	758	667	759	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	879	1155	1047	915	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-66: PHENOLS MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (µg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	21.0	10.0	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.0	0.8	6.8	8.9	9.0	5.5	18.2	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.7	1.1	9.9	8.7	5.6	7.6	14.1	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.5	0.3	11.4	11.5	9.4	11.6	16.5	24.5	26.0	14.8	17.3	17.3
104 Glenview Road, North Branch Chicago River	0.0	0.3	6.3	7.6	4.3	5.2	11.4	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.3	0.3	8.0	11.6	7.9	9.1	15.3	19.6	21.0	13.4	15.8	15.8
105 Frontage Road, Skokie River	1.1	1.2	5.6	5.7	3.2	5.4	10.3	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.9	0.3	8.4	6.8	5.5	7.3	11.7	18.0	16.0	9.6	11.2	11.2
96 Albany Avenue, North Branch Chicago River	0.0	0.3	8.3	8.9	6.4	6.6	13.1	14.5	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.3	0.3	4.3	6.6	2.8	4.5	4.6	13.3	12.4	10.3	8.8	8.8
102 Oakton Street, North Shore Channel	1.5	1.0	7.1	7.8	6.5	6.0	7.9	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.0	0.5	9.1	9.4	7.3	9.0	14.3	22.2	20.4	13.4	13.5	13.5
101 Foster Avenue, North Shore Channel	0.5	1.0	9.8	9.8	6.2	9.0	12.2	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.2	1.0	8.5	8.9	6.5	8.3	13.3	20.6	18.7	11.4	12.6	12.6
73 Diversey Parkway, North Branch Chicago River	1.1	1.0	10.8	8.4	6.8	8.6	13.8	20.8	17.8	12.1	13.2	13.2
46 Grand Avenue, North Branch Chicago River	0.8	1.3	9.8	10.3	5.3	8.5	15.0	21.4	18.8	14.1	13.1	13.1
74 Lake Shore Drive, Chicago River	0.4	0.0	4.3	4.4	3.0	2.7	7.3	15.6	9.2	9.3	7.0	7.0
100 Wells Street, Chicago River	0.6	0.3	4.8	7.6	3.8	3.8	11.9	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.5	0.0	7.6	9.1	7.6	6.7	10.9	23.0	15.8	12.7	9.3	9.3
108 Loomis Street, South Branch Chicago River	1.0	0.5	7.7	8.6	5.5	7.4	9.6	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.3	0.7	8.7	9.5	5.8	9.5	17.7	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.6	0.7	8.3	8.3	5.6	ND	ND	23.0	15.6	11.3	12.1	12.1
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	7.5	11.8	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.5	0.9	6.8	7.9	5.0	7.7	11.7	17.5	16.0	13.6	11.1	11.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.8	0.5	6.6	8.5	5.6	6.8	14.8	18.5	15.3	12.5	14.1	14.1
42 Route 83, Chicago Sanitary & Ship Canal	0.5	0.3	9.5	9.7	6.2	8.7	13.4	19.1	17.4	13.4	10.4	10.4
48 Stephen Street, Chicago Sanitary & Ship Canal	0.0	0.0	9.2	9.0	6.6	8.3	12.8	21.8	17.9	14.9	12.7	12.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	15.3	10.5	12.6	10.9	10.9
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.2	0.8	8.8	8.6	5.7	7.5	10.9	18.5	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.4	0.9	2.0	2.7	1.6	1.7	3.3	7.3	7.2	5.7	8.0	8.0
50 Burnham Avenue, Wolf Lake	0.0	0.0	5.8	7.4	3.2	3.8	5.0	11.6	10.0	10.8	8.6	8.6
55 130th Street, Calumet River	0.0	0.4	4.9	3.6	1.1	1.8	5.0	10.5	8.2	6.9	8.0	8.0
86 Burnham Avenue, Grand Calumet River	2.3	1.9	16.1	11.9	7.6	6.1	8.0	22.8	20.0	14.4	10.4	10.4
56 Indiana Avenue, Little Calumet River	1.0	0.3	5.0	5.6	2.5	4.1	6.0	13.1	15.3	7.4	7.6	7.6
76 Halsted Street, Little Calumet River	1.6	0.9	9.9	8.9	7.2	9.4	11.4	24.1	46.6	13.8	12.8	12.8
52 Wentworth Avenue, Little Calumet River	1.3	0.8	14.4	22.4	12.6	16.5	12.5	21.5	23.1	13.4	12.5	12.5
54 Joe Orr Road, Thorn Creek	1.2	0.0	13.3	9.3	6.0	9.0	10.2	19.7	18.8	11.2	15.2	15.2
97 170th Street, Thorn Creek	1.0	0.0	9.0	9.7	6.2	8.0	7.8	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.4	0.3	10.2	10.9	7.5	8.4	11.9	19.9	21.1	15.8	14.0	14.0
58 Ashland Avenue, Calumet Sag Channel	1.1	0.3	9.1	9.3	7.8	8.8	11.8	21.1	22.6	17.5	15.3	15.3
59 Cicero Avenue, Calumet Sag Channel	0.3	0.5	10.5	10.3	7.9	9.3	13.5	20.6	26.3	15.4	14.2	14.2
43 Route 83, Calumet Sag Channel	0.0	0.4	10.0	9.7	5.5	10.2	11.5	19.1	21.5	16.1	12.7	12.7
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	1.0	0.0	10.4	8.6	6.5	5.3	10.4	17.3	16.3	14.2	16.1	16.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	9.0	ND	18.0	20.1	18.8	14.3	14.4	14.4
89 Walnut Lane, West Branch DuPage River	1.0	0.0	9.5	13.3	8.8	7.8	17.1	19.7	20.1	16.9	13.0	13.0
64 Lake Street, West Branch DuPage River	0.6	0.3	8.2	9.1	7.9	6.3	15.8	22.5	19.3	15.3	13.6	13.6
79 Higgins Road, Salt Creek	1.5	0.4	10.6	8.4	7.9	6.1	13.4	17.1	16.6	15.3	12.8	12.8
80 Arlington Heights Road, Salt Creek	0.6	0.5	6.0	9.3	5.0	6.6	15.3	18.2	20.3	13.2	12.8	12.8
18 Devon Avenue, Salt Creek	1.2	0.0	5.5	10.4	6.3	5.1	16.2	17.6	19.5	13.7	13.3	13.3
24 Wolf Road, Salt Creek	0.6	1.2	5.8	6.7	6.0	5.7	12.4	17.1	16.3	9.5	12.7	12.7
109 Brookfield Avenue, Salt Creek	0.5	0.9	8.6	7.6	5.4	5.7	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	4.7	11.9	20.1	16.3	11.9	11.5	11.5
77 Elmhurst Road, Higgins Creek	0.0	1.9	11.3	13.0	12.2	5.8	14.9	28.4	21.6	14.4	17.0	17.0
78 Wille Road, Higgins Creek	1.6	1.0	8.1	15.5	8.8	11.3	19.0	26.6	25.0	14.8	16.7	16.7
12 Lake-Cook Road, Buffalo Creek	0.3	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.7	0.0	6.2	7.6	4.4	4.6	11.4	18.3	16.7	12.4	12.6	12.6
17 Oakton Street, Des Plaines River	1.1	0.3	6.8	7.9	5.0	6.4	11.5	19.6	17.0	12.6	12.9	12.9
19 Belmont Avenue, Des Plaines River	0.6	1.3	6.5	9.5	5.8	5.3	11.8	20.3	17.9	13.5	13.3	13.3
20 Roosevelt Road, Des Plaines River	0.5	0.6	8.4	9.7	6.0	5.3	11.3	19.7	18.7	13.2	13.6	13.6
22 Ogden Avenue, Des Plaines River	0.6	0.7	7.6	8.8	7.6	5.0	12.5	19.6	16.9	11.5	13.9	13.9
23 Willow Springs Road, Des Plaines River	0.7	2.1	7.6	8.7	4.5	5.6	11.5	16.9	16.1	12.2	13.8	13.8
29 Stephen Street, Des Plaines River	0.3	0.9	6.1	8.4	5.3	5.2	14.8	16.3	18.1	13.6	13.0	13.0
91 Material Service Road, Des Plaines River	0.3	1.3	10.5	7.5	5.5	5.1	9.9	18.2	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	1.2	1.3	15.7	18.0	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-67: SULFATE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	74.5	77.0	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	46.6	53.3	63.0	76.5	64.3	61.8	67.2	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	68.9	77.9	75.4	75.3	76.4	64.5	61.8	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	57.1	68.0	86.3	76.3	76.4	72.3	69.0	72.0	71.9	77.9	62.9
104 Glenview Road, North Branch Chicago River	60.3	66.8	65.1	69.8	67.8	64.1	64.8	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	53.3	61.6	65.4	76.6	80.4	62.3	70.4	74.4	79.2	87.6	78.6
105 Frontage Road, Skokie River	52.7	67.8	63.4	67.4	64.9	64.8	62.3	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	60.3	71.5	68.6	72.4	71.6	61.9	63.2	76.1	72.4	77.9	79.4
96 Albany Avenue, North Branch Chicago River	59.7	73.1	68.3	72.3	74.0	69.0	65.8	59.1	ND	ND	ND
35 Central Street, North Shore Channel	30.4	28.7	26.8	33.8	36.6	34.9	25.6	32.5	34.3	34.1	32.1
102 Oakton Street, North Shore Channel	39.9	43.8	40.9	41.7	43.0	43.3	28.2	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	49.1	50.8	46.6	51.7	53.4	53.3	79.8	53.8	51.3	54.2	45.0
101 Foster Avenue, North Shore Channel	50.6	51.3	59.6	56.8	53.2	50.6	49.0	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	54.1	58.0	50.8	59.9	57.3	57.1	57.3	53.8	55.7	56.9	52.2
73 Diversey Parkway, North Branch Chicago River	52.3	55.8	50.9	62.2	59.0	55.6	58.2	55.8	68.5	56.5	48.8
46 Grand Avenue, North Branch Chicago River	53.6	57.4	54.1	60.6	58.9	56.3	56.3	55.4	59.2	60.1	53.1
74 Lake Shore Drive, Chicago River	31.7	36.6	29.7	36.8	35.6	32.0	32.0	39.3	32.6	29.9	24.8
100 Wells Street, Chicago River	36.8	39.1	35.4	40.5	44.3	36.6	36.0	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	44.9	49.6	47.6	51.8	54.8	49.1	45.8	50.4	51.3	47.2	37.1
108 Loomis Street, South Branch Chicago River	47.2	52.2	49.8	55.2	53.2	49.3	43.3	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	46.1	51.1	56.0	52.8	55.1	51.6	51.8	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	46.3	52.0	49.5	53.0	53.1	ND	ND	51.9	51.1	50.5	45.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	49.6	43.9	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	48.5	51.9	50.1	55.4	52.5	54.3	46.8	51.6	50.0	45.5	39.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	67.3	72.1	70.7	76.4	72.9	69.5	63.6	72.3	75.6	75.7	64.5
42 Route 83, Chicago Sanitary & Ship Canal	72.8	75.1	74.2	80.8	82.5	78.5	67.1	70.8	72.2	69.6	68.8
48 Stephen Street, Chicago Sanitary & Ship Canal	83.8	89.6	85.6	91.7	94.6	88.1	88.9	92.3	91.5	80.7	84.9
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	85.7	86.9	88.1	89.8	96.7	88.7	91.1	96.2	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	32.1	29.9	27.0	28.3	29.2	28.4	28.3	29.8	29.8	25.1	23.9
50 Burnham Avenue, Wolf Lake	42.6	39.4	41.0	43.5	35.2	36.6	38.9	38.6	35.3	32.2	33.0
55 130th Street, Calumet River	82.7	60.7	55.2	57.2	54.2	54.7	63.3	49.8	50.6	43.4	52.2
86 Burnham Avenue, Grand Calumet River	196.1	262.4	176.9	204.9	260.1	219.9	184.3	177.2	157.5	195.7	173.8
56 Indiana Avenue, Little Calumet River	90.1	74.7	64.1	70.4	74.3	78.9	73.4	77.8	72.4	88.2	83.9
76 Halsted Street, Little Calumet River	87.7	91.0	91.3	91.6	100.7	91.2	113.3	143.1	125.0	119.0	112.8
52 Wentworth Avenue, Little Calumet River	118.4	130.0	116.2	143.9	180.2	146.0	122.5	145.1	131.2	122.0	128.8
54 Joe Orr Road, Thorn Creek	596.3	620.0	494.6	620.8	460.4	724.5	521.3	342.4	380.1	355.8	391.1
97 170th Street, Thorn Creek	352.0	419.3	465.3	403.1	498.3	445.9	255.8	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	223.0	241.5	289.4	235.0	293.1	241.9	161.0	190.1	229.8	158.0	179.7
58 Ashland Avenue, Calumet Sag Channel	91.4	107.7	118.2	116.5	142.4	146.2	110.3	163.6	133.2	133.6	94.2
59 Cicero Avenue, Calumet Sag Channel	94.2	123.1	120.4	128.6	136.4	118.2	124.3	151.8	133.9	139.3	130.7
43 Route 83, Calumet Sag Channel	104.5	117.1	130.0	122.7	128.4	109.3	116.6	144.1	132.4	135.7	126.7
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	53.9	71.5	54.6	66.7	46.9	62.8	63.0	60.4	58.0	71.2	54.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	60.2	ND	83.5	71.7	87.1	79.9	76.9
89 Walnut Lane, West Branch DuPage River	65.7	81.8	68.1	77.2	68.1	65.4	73.5	69.3	68.7	67.9	61.0
64 Lake Street, West Branch DuPage River	65.3	81.9	71.4	78.0	68.1	68.0	77.8	68.5	70.5	71.3	64.7
79 Higgins Road, Salt Creek	62.5	81.7	79.4	93.3	72.8	76.0	89.5	79.5	74.9	78.4	67.0
80 Arlington Heights Road, Salt Creek	76.8	85.0	82.9	84.9	77.7	79.3	84.4	73.9	83.6	81.3	72.7
18 Devon Avenue, Salt Creek	75.7	84.5	83.2	84.6	76.4	79.5	82.4	74.0	74.5	76.3	77.0
24 Wolf Road, Salt Creek	84.6	87.0	92.2	96.7	84.1	95.0	98.7	89.4	94.5	108.9	87.4
109 Brookfield Avenue, Salt Creek	79.9	85.2	88.4	97.9	82.4	84.5	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	95.8	94.2	86.2	90.1	104.4	87.2
77 Elmhurst Road, Higgins Creek	37.5	47.1	46.7	66.3	44.8	47.8	60.9	47.0	55.4	66.4	48.9
78 Wille Road, Higgins Creek	91.0	91.7	103.6	100.2	90.4	97.1	107.8	94.5	99.3	96.5	88.7
12 Lake-Cook Road, Buffalo Creek	70.8	111.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	75.7	97.0	84.7	88.9	91.6	84.9	76.8	81.0	71.1	87.9	80.6
17 Oakton Street, Des Plaines River	69.8	92.5	112.2	89.9	88.4	86.3	85.8	75.5	73.4	83.4	75.3
19 Belmont Avenue, Des Plaines River	70.6	90.7	88.0	91.2	85.4	85.6	79.5	78.1	78.3	86.3	76.1
20 Roosevelt Road, Des Plaines River	70.5	89.7	100.1	90.6	85.7	87.4	80.5	78.5	75.6	84.3	75.4
22 Ogden Avenue, Des Plaines River	68.8	90.9	85.1	87.9	89.1	87.5	98.9	79.2	77.7	87.7	78.2
23 Willow Springs Road, Des Plaines River	73.1	88.2	89.3	92.8	92.2	90.0	83.8	85.5	82.2	90.6	81.6
29 Stephen Street, Des Plaines River	76.9	91.1	90.5	91.4	95.6	90.6	82.9	83.4	79.6	90.0	87.2
91 Material Service Road, Des Plaines River	74.9	93.7	105.3	94.3	97.5	95.8	81.2	89.1	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	85.1	112.4	80.5	98.7	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-68: FATS, OILS, AND GREASES MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	11.63	5.49
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	4.37	5.74
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	3.63	6.06
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	0.00	ND	ND	ND	ND	ND	ND	ND	6.01
102 Oakton Street, North Shore Channel	0.42	0.42	0.73	2.48	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.30	0.27	2.14	2.37	4.47	5.54	4.79	ND	ND	3.97	6.50
101 Foster Avenue, North Shore Channel	0.33	0.67	2.02	1.94	2.73	4.84	3.96	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.67	0.42	2.45	1.85	3.38	5.45	4.56	ND	ND	4.27	8.40
73 Diversey Parkway, North Branch Chicago River	0.00	0.83	0.86	2.33	3.38	3.85	8.94	ND	ND	2.45	7.27
46 Grand Avenue, North Branch Chicago River	0.27	0.42	1.85	2.97	2.59	4.72	3.88	ND	ND	2.75	9.51
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	2.91
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.27	0.00	0.68	1.93	3.56	5.70	4.16	ND	ND	4.85	3.65
108 Loomis Street, South Branch Chicago River	0.00	0.00	0.80	1.64	2.87	4.68	4.79	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.00	0.00	0.55	2.77	2.96	4.41	4.03	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.67	0.00	0.73	3.03	3.16	ND	ND	ND	ND	5.25	3.87
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.37	3.89	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.25	0.00	1.24	1.59	2.89	5.57	4.09	ND	ND	2.55	7.41
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.65	2.03	2.73	5.16	4.09	ND	ND	2.65	6.26
42 Route 83, Chicago Sanitary & Ship Canal	0.55	0.00	0.93	2.64	2.06	5.31	5.79	ND	ND	3.00	6.58
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	0.00	1.18	4.29	2.74	4.10	3.37	ND	ND	1.85	8.13
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	0.14	0.37	1.52	1.95	3.85	4.76	3.92	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	4.70
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.63	7.42
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.33	5.42
86 Burnham Avenue, Grand Calumet River	0.60	1.00	1.77	1.46	6.40	5.76	3.17	ND	ND	3.20	11.05
56 Indiana Avenue, Little Calumet River	0.00	1.18	0.00	1.41	3.66	4.87	3.39	ND	ND	3.97	4.98
76 Halsted Street, Little Calumet River	0.00	1.18	0.43	1.28	2.91	4.39	4.54	ND	ND	3.80	7.47
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.60	6.83
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.80	8.18
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	3.00	5.43
58 Ashland Avenue, Calumet Sag Channel	0.00	0.73	0.58	1.98	3.36	5.33	4.20	ND	ND	ND	7.50
59 Cicero Avenue, Calumet Sag Channel	0.00	0.55	0.78	1.78	2.58	4.45	3.92	ND	ND	5.07	4.83
43 Route 83, Calumet Sag Channel	0.00	0.73	0.79	2.29	3.41	4.38	4.33	ND	ND	5.53	4.58
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.55	7.27
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.50	8.50
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.35	4.60
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.30	7.49
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.50	7.07
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.20	6.21
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.20	7.16
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.55	5.30
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	5.45	6.70
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.35	4.25
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.05	4.67
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	4.15	6.26
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.70	6.23
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.45	4.75
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.40	4.65
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.45	5.20
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.80	6.09
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	4.56
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  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.545	2.200	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.038	0.964	1.508	2.120	1.620	0.963	1.102	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.669	0.572	0.834	0.550	0.614	0.752	0.663	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.183	0.158	0.210	0.145	0.112	0.155	0.143	0.185	0.245	0.183	0.198
104 Glenview Road, North Branch Chicago River	1.028	0.936	1.413	1.014	1.033	1.256	0.844	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.175	0.599	0.863	0.237	0.331	0.187	0.150	0.224	0.196	0.152	0.219
105 Frontage Road, Skokie River	1.246	1.174	1.538	1.223	1.708	1.477	0.932	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.879	0.840	1.199	0.925	1.269	1.153	0.624	1.147	1.208	0.777	1.237
96 Albany Avenue, North Branch Chicago River	0.808	0.760	1.155	0.795	1.002	1.037	0.718	1.312	ND	ND	ND
35 Central Street, North Shore Channel	0.062	0.056	0.016	0.088	0.213	0.101	0.058	0.183	0.215	0.129	0.067
102 Oakton Street, North Shore Channel	0.538	0.632	0.444	0.489	0.548	0.655	0.221	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.388	1.033	1.241	1.170	1.377	1.057	1.259	1.214	1.351	1.185	1.189
101 Foster Avenue, North Shore Channel	1.450	1.384	1.248	1.328	1.287	1.148	1.406	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.287	1.191	1.130	1.227	1.143	1.043	1.198	1.301	1.388	1.086	1.033
73 Diversey Parkway, North Branch Chicago River	1.112	0.986	0.870	1.065	1.055	0.905	0.889	1.102	1.116	0.843	0.943
46 Grand Avenue, North Branch Chicago River	1.115	1.004	1.121	0.923	0.982	0.953	0.800	1.130	1.120	0.863	0.870
74 Lake Shore Drive, Chicago River	0.152	0.125	0.158	0.228	0.226	0.191	0.291	0.373	0.206	0.202	0.099
100 Wells Street, Chicago River	0.308	0.309	0.355	0.443	0.639	0.429	0.387	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.709	0.661	0.830	0.908	1.089	0.756	0.611	1.130	0.839	0.605	0.465
108 Loomis Street, South Branch Chicago River	0.678	0.723	0.722	0.860	0.775	0.732	0.573	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.609	0.590	0.767	0.804	0.857	0.719	0.610	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.686	0.702	0.755	0.843	0.884	ND	ND	1.046	0.727	0.528	0.570
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.738	0.609	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.763	0.661	0.746	0.803	0.867	0.723	0.671	0.965	0.690	0.550	0.573
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.008	0.825	0.988	0.953	1.100	0.984	0.990	1.120	1.044	0.853	0.888
42 Route 83, Chicago Sanitary & Ship Canal	0.830	0.602	0.725	0.978	0.836	0.918	0.760	0.755	0.643	0.661	0.678
48 Stephen Street, Chicago Sanitary & Ship Canal	0.964	0.901	1.168	1.103	1.083	1.180	1.096	1.355	1.098	0.859	1.063
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1.485	1.545	1.211	1.236
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.852	0.935	1.166	1.014	1.138	1.197	1.032	1.414	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.011	0.044	0.025	0.060	0.032	0.060	0.081	0.131	0.145	0.081	0.088
50 Burnham Avenue, Wolf Lake	0.037	0.045	0.023	0.053	0.029	0.035	0.070	0.075	0.234	0.056	0.095
55 130th Street, Calumet River	0.031	0.038	0.025	0.049	0.035	0.039	0.127	0.088	0.197	0.151	0.094
86 Burnham Avenue, Grand Calumet River	1.209	0.699	0.878	0.584	0.607	0.613	0.666	0.537	0.857	0.704	0.465
56 Indiana Avenue, Little Calumet River	0.189	0.359	0.372	0.538	0.504	0.495	0.554	0.373	0.324	0.214	0.152
76 Halsted Street, Little Calumet River	1.037	1.835	2.083	1.638	2.126	2.038	1.386	3.193	2.595	1.885	1.758
52 Wentworth Avenue, Little Calumet River	0.585	0.645	0.609	0.543	0.561	0.595	0.495	0.752	1.168	0.815	0.553
54 Joe Orr Road, Thorn Creek	2.329	2.038	2.113	2.054	1.650	5.909	5.645	5.208	3.000	8.043	8.065
97 170th Street, Thorn Creek	1.479	1.170	1.574	1.502	2.101	2.607	2.296	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.834	0.764	1.061	0.812	1.223	1.481	1.537	2.170	1.522	1.619	1.992
58 Ashland Avenue, Calumet Sag Channel	0.963	1.755	2.077	1.562	1.898	2.070	1.442	3.038	2.190	1.948	1.445
59 Cicero Avenue, Calumet Sag Channel	0.989	1.802	2.214	1.646	2.048	2.129	1.511	3.119	2.396	2.118	1.930
43 Route 83, Calumet Sag Channel	1.037	1.318	2.266	1.483	1.686	1.814	1.619	2.642	2.453	1.832	2.012
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.100	0.116	0.087	0.075	0.108	0.066	0.060	0.181	0.430	0.101	0.424
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.140	ND	0.225	0.184	0.952	0.770	0.547
89 Walnut Lane, West Branch DuPage River	2.460	2.270	2.670	2.745	2.440	2.603	2.428	2.109	2.742	2.903	2.453
64 Lake Street, West Branch DuPage River	2.062	1.911	2.432	2.400	2.338	2.245	2.030	1.649	2.205	2.385	2.007
79 Higgins Road, Salt Creek	0.132	0.149	0.108	0.097	0.106	0.109	0.106	0.249	0.128	0.176	0.169
80 Arlington Heights Road, Salt Creek	0.513	1.791	2.022	1.850	1.980	1.992	1.687	1.688	2.224	1.974	1.575
18 Devon Avenue, Salt Creek	0.548	1.882	1.981	1.899	2.007	1.955	1.810	1.710	2.231	1.855	1.410
24 Wolf Road, Salt Creek	0.839	1.471	1.896	1.595	1.584	1.773	1.227	1.407	1.745	1.497	1.441
109 Brookfield Avenue, Salt Creek	0.765	1.355	1.603	1.317	1.328	1.943	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	1.043	1.073	1.239	1.595	1.517	1.469
77 Elmhurst Road, Higgins Creek	0.112	0.123	0.098	0.108	0.290	0.117	0.112	0.184	0.221	0.111	0.115
78 Wille Road, Higgins Creek	0.813	0.663	1.577	0.662	0.478	0.864	0.508	0.578	0.671	1.058	0.988
12 Lake-Cook Road, Buffalo Creek	0.167	0.122	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.934	1.075	1.498	0.985	1.333	1.268	0.826	0.984	1.261	0.916	0.736
17 Oakton Street, Des Plaines River	0.772	0.873	1.256	0.889	0.958	1.033	0.691	0.705	0.971	0.764	0.615
19 Belmont Avenue, Des Plaines River	0.738	0.816	1.107	0.688	0.852	0.883	0.590	0.914	0.780	0.684	0.630
20 Roosevelt Road, Des Plaines River	0.700	0.700	1.069	0.631	0.891	0.875	0.546	0.583	0.701	0.660	0.667
22 Ogden Avenue, Des Plaines River	0.697	0.923	1.224	0.811	1.272	1.095	0.658	0.732	0.963	0.849	0.885
23 Willow Springs Road, Des Plaines River	0.647	0.882	1.173	0.796	0.919	1.060	0.618	0.762	0.887	0.797	0.816
29 Stephen Street, Des Plaines River	0.715	0.930	1.201	0.834	1.077	0.998	0.672	0.742	0.940	0.788	0.862
91 Material Service Road, Des Plaines River	0.733	0.915	1.263	0.778	1.104	0.969	0.679	0.914	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.179	0.184	0.325	0.205	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-70: SOLUBLE PHOSPHORUS MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.340	1.610	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.910	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.448	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	0.028	0.082	0.109	0.116	0.127
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.530	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	0.026	0.111	0.108	0.095	0.158
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	0.633	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.418	0.889	0.920	0.705	0.994
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.525	1.103	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	0.053	0.044	0.098	0.103	0.038
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	0.928	0.989	1.066	1.058	0.955
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	1.168	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.830	0.904	1.160	0.977	0.888
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.707	0.814	0.917	0.743	0.761
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0.682	0.865	0.853	0.873	0.707
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	0.390	0.270	0.157	0.150	0.057
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	0.500	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	0.594	0.730	0.646	0.501	0.345
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	0.555	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	0.490	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.703	0.492	0.423	0.426
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.537	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.646	0.672	0.459	0.378	0.402
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.618	0.834	0.754	0.737	0.636
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.646	0.571	0.478	0.502	0.512
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.970	1.071	0.798	0.717	0.888
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	0.846	1.156	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	0.046	0.053	0.060	0.041	0.059
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	0.032	0.040	0.064	0.041	0.063
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	0.013	0.045	0.080	0.062	0.058
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	0.155	0.121	0.191	0.329	0.222
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	0.090	0.277	0.110	0.161	0.076
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	1.372	2.923	2.684	1.533	1.276
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	0.240	0.384	0.398	0.296	0.313
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	5.608	4.875	2.556	7.365	6.853
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	1.620	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	0.915	1.882	1.229	1.275	1.697
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	1.300	2.720	2.077	1.736	1.045
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	1.312	2.794	2.314	1.888	1.586
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	1.046	2.306	2.348	1.834	1.738
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	0.020	0.064	0.070	0.074	0.330
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.137	0.060	0.729	0.684	0.608
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1.970	1.910	2.243	2.198	2.120
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1.772	1.383	1.712	2.048	1.772
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	0.000	0.039	0.074	0.109	0.068
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	1.265	1.488	1.843	1.751	1.227
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	1.287	1.447	1.868	1.686	1.098
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	0.987	1.094	1.369	1.240	1.150
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	0.937	0.945	1.275	1.300	1.187
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	0.026	0.044	0.071	0.073	0.104
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	0.265	0.385	0.506	0.823	0.713
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	0.412	0.716	1.047	0.736	0.575
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	0.352	0.480	0.741	0.563	0.440
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0.315	0.420	0.609	0.503	0.448
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0.313	0.416	0.562	0.523	0.462
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0.443	0.557	0.769	0.688	0.634
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0.443	0.544	0.679	0.629	0.621
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	0.488	0.575	0.664	0.588	0.641
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0.380	0.711	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-71: TOTAL CYANIDE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.006	0.009	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.005	0.001	0.005	0.005	0.002	0.003	0.005	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.001	0.003	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.002	0.002	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.002
104 Glenview Road, North Branch Chicago River	0.001	0.000	0.002	0.003	0.002	0.003	0.003	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.002
105 Frontage Road, Skokie River	0.001	0.000	0.002	0.002	0.002	0.002	0.004	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.002	0.003	0.003	0.008	0.004	0.006	0.005	0.004	0.005	0.005
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.002	0.003	0.002	0.002	0.004	0.005	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.002	0.001	0.001	0.001
102 Oakton Street, North Shore Channel	0.001	0.001	0.002	0.002	0.002	0.004	0.002	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.001	0.002	0.004	0.003	0.004	0.006	0.006	0.005	0.006	0.007	0.007
101 Foster Avenue, North Shore Channel	0.003	0.001	0.003	0.003	0.003	0.004	0.005	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.002	0.001	0.003	0.003	0.003	0.003	0.004	0.005	0.006	0.007	0.006	0.005
73 Diversey Parkway, North Branch Chicago River	0.002	0.001	0.003	0.003	0.003	0.003	0.006	0.012	0.008	0.005	0.008	0.008
46 Grand Avenue, North Branch Chicago River	0.002	0.001	0.003	0.004	0.003	0.004	0.005	0.006	0.007	0.007	0.005	0.005
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	0.001	0.002	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.002	0.002	0.002	0.002	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	0.002	0.003	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.003
108 Loomis Street, South Branch Chicago River	0.001	0.001	0.002	0.003	0.003	0.003	0.003	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.002	0.002	0.003	0.003	0.005	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.002	0.003	0.003	ND	ND	0.005	0.005	0.004	0.004	0.004
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.003	0.004	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.004	0.004	0.003
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.003	0.003	0.003	0.003	0.005	0.006	0.007	0.006	0.007	0.006	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.002	0.004	0.003	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.003	0.004	0.004	0.003	0.006	0.007	0.007	0.007	0.009	0.009	0.007
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.003	0.003	0.004	0.003	0.005	0.006	0.007	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.003	0.003
50 Burnham Avenue, Wolf Lake	0.001	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
55 130th Street, Calumet River	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002
86 Burnham Avenue, Grand Calumet River	0.004	0.003	0.005	0.005	0.005	0.006	0.010	0.009	0.008	0.011	0.010	0.010
56 Indiana Avenue, Little Calumet River	0.001	0.000	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003
76 Halsted Street, Little Calumet River	0.002	0.002	0.003	0.003	0.003	0.005	0.007	0.010	0.010	0.008	0.006	0.006
52 Wentworth Avenue, Little Calumet River	0.006	0.004	0.006	0.016	0.005	0.006	0.009	0.061	0.040	0.027	0.005	0.005
54 Joe Orr Road, Thorn Creek	0.002	0.002	0.003	0.004	0.003	0.006	0.005	0.008	0.007	0.008	0.007	0.007
97 170th Street, Thorn Creek	0.001	0.000	0.002	0.002	0.002	0.002	0.004	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.003	0.002	0.003	0.005	0.004	0.005	0.005	0.008	0.009	0.008	0.005	0.005
58 Ashland Avenue, Calumet Sag Channel	0.002	0.002	0.003	0.004	0.003	0.005	0.007	0.009	0.009	0.008	0.006	0.006
59 Cicero Avenue, Calumet Sag Channel	0.002	0.002	0.003	0.003	0.003	0.005	0.006	0.008	0.008	0.009	0.006	0.006
43 Route 83, Calumet Sag Channel	0.001	0.001	0.002	0.003	0.002	0.004	0.006	0.007	0.007	0.009	0.006	0.006
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.001	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.002	ND	0.004	0.002	0.007	0.005	0.004	0.004
89 Walnut Lane, West Branch DuPage River	0.005	0.004	0.004	0.006	0.005	0.007	0.010	0.008	0.012	0.011	0.010	0.010
64 Lake Street, West Branch DuPage River	0.003	0.002	0.004	0.004	0.004	0.005	0.008	0.007	0.009	0.009	0.008	0.008
79 Higgins Road, Salt Creek	0.002	0.000	0.001	0.002	0.002	0.002	0.003	0.002	0.004	0.002	0.002	0.002
80 Arlington Heights Road, Salt Creek	0.002	0.001	0.003	0.004	0.003	0.005	0.008	0.007	0.010	0.009	0.006	0.006
18 Devon Avenue, Salt Creek	0.002	0.001	0.003	0.004	0.003	0.005	0.008	0.006	0.009	0.008	0.006	0.006
24 Wolf Road, Salt Creek	0.001	0.000	0.002	0.003	0.003	0.004	0.006	0.004	0.007	0.006	0.006	0.006
109 Brookfield Avenue, Salt Creek	0.001	0.001	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.006	0.005	0.004	0.006	0.006	0.006	0.006
77 Elmhurst Road, Higgins Creek	0.000	0.003	0.003	0.004	0.003	0.004	0.003	0.004	0.003	0.003	0.003	0.003
78 Wille Road, Higgins Creek	0.004	0.002	0.003	0.004	0.004	0.005	0.007	0.006	0.011	0.008	0.008	0.008
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.002	0.001	0.002	0.003	0.006	0.005	0.010	0.005	0.005	0.005
17 Oakton Street, Des Plaines River	0.001	0.001	0.005	0.002	0.002	0.003	0.005	0.004	0.009	0.005	0.004	0.004
19 Belmont Avenue, Des Plaines River	0.002	0.001	0.009	0.002	0.003	0.003	0.005	0.004	0.005	0.004	0.005	0.005
20 Roosevelt Road, Des Plaines River	0.002	0.001	0.009	0.002	0.002	0.004	0.005	0.004	0.005	0.004	0.005	0.005
22 Ogden Avenue, Des Plaines River	0.002	0.001	0.003	0.002	0.003	0.003	0.005	0.003	0.006	0.005	0.005	0.005
23 Willow Springs Road, Des Plaines River	0.002	0.000	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.005	0.005
29 Stephen Street, Des Plaines River	0.001	0.000	0.002	0.002	0.002	0.004	0.004	0.004	0.005	0.006	0.005	0.005
91 Material Service Road, Des Plaines River	0.001	0.000	0.001	0.002	0.002	0.004	0.004	0.005	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-72: WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.000	0.001	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001
105 Frontage Road, Skokie River	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
101 Foster Avenue, North Shore Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.000	0.002
46 Grand Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.001	0.000	0.001	0.001	0.001	0.001	0.000	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
108 Loomis Street, South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	0.001	0.001	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.001	0.001	0.001	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
56 Indiana Avenue, Little Calumet River	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001
76 Halsted Street, Little Calumet River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.001	0.001
52 Wentworth Avenue, Little Calumet River	0.002	0.001	0.002	0.004	0.001	0.001	0.001	0.009	0.008	0.004	0.001
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001
97 170th Street, Thorn Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.001	0.001
58 Ashland Avenue, Calumet Sag Channel	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001
43 Route 83, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.001	ND	0.001	0.001	0.001	0.001	0.001
89 Walnut Lane, West Branch DuPage River	0.003	0.002	0.002	0.002	0.002	0.003	0.002	0.001	0.002	0.001	0.002
64 Lake Street, West Branch DuPage River	0.002	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.000	0.002	0.000	0.001
80 Arlington Heights Road, Salt Creek	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001
18 Devon Avenue, Salt Creek	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001
24 Wolf Road, Salt Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
109 Brookfield Avenue, Salt Creek	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.001	0.001	0.001	0.000	0.001	0.001
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001
78 Wille Road, Higgins Creek	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.002
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.004	0.000	0.001
17 Oakton Street, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.006	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001
23 Willow Springs Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001
29 Stephen Street, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001
91 Material Service Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-73: FLUORIDE MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.240	0.710	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.345	0.334	0.520	0.553	0.450	0.433	0.408	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.401	0.370	0.469	0.360	0.394	0.425	0.387	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.361	0.296	0.375	0.289	0.334	0.343	0.266	0.310	0.312	0.306	0.430	0.430
104 Glenview Road, North Branch Chicago River	0.519	0.457	0.584	0.513	0.460	0.617	0.464	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.314	0.379	0.483	0.291	0.364	0.354	0.247	0.315	0.373	0.286	0.391	0.391
105 Frontage Road, Skokie River	0.569	0.538	0.614	0.557	0.686	0.703	0.500	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.485	0.438	0.539	0.473	0.581	0.605	0.378	0.577	0.604	0.488	0.625	0.625
96 Albany Avenue, North Branch Chicago River	0.478	0.436	0.516	0.439	0.528	0.567	0.446	0.642	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.198	0.181	0.135	0.136	0.233	0.307	0.138	0.187	0.184	0.158	0.200	0.200
102 Oakton Street, North Shore Channel	0.420	0.456	0.346	0.318	0.376	0.512	0.238	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.763	0.662	0.675	0.619	0.721	0.749	0.694	0.812	0.781	0.778	0.705	0.705
101 Foster Avenue, North Shore Channel	0.753	0.683	0.685	0.652	0.717	0.745	0.722	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.710	0.634	0.667	0.617	0.678	0.693	0.623	0.779	0.758	0.748	0.728	0.728
73 Diversey Parkway, North Branch Chicago River	0.699	0.615	0.667	0.624	0.688	0.684	0.648	0.765	0.765	0.740	0.634	0.634
46 Grand Avenue, North Branch Chicago River	0.688	0.623	0.720	0.601	0.690	0.717	0.665	0.783	0.768	0.697	0.752	0.752
74 Lake Shore Drive, Chicago River	0.229	0.196	0.196	0.229	0.250	0.238	0.353	0.358	0.235	0.195	0.260	0.260
100 Wells Street, Chicago River	0.312	0.297	0.316	0.322	0.458	0.423	0.363	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.465	0.462	0.551	0.550	0.665	0.590	0.537	0.645	0.607	0.475	0.372	0.372
108 Loomis Street, South Branch Chicago River	0.467	0.489	0.557	0.551	0.596	0.581	0.543	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.472	0.461	0.565	0.516	0.578	0.565	0.595	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.467	0.468	0.555	0.525	0.592	ND	ND	0.667	0.537	0.468	0.456	0.456
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.532	0.538	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.498	0.479	0.531	0.503	0.578	0.578	0.471	0.617	0.513	0.434	0.437	0.437
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.633	0.643	0.740	0.686	0.727	0.743	0.633	0.781	0.743	0.705	0.701	0.701
42 Route 83, Chicago Sanitary & Ship Canal	0.685	0.696	0.756	0.768	0.825	0.809	0.715	0.806	0.778	0.742	0.726	0.726
48 Stephen Street, Chicago Sanitary & Ship Canal	0.636	0.648	0.701	0.683	0.800	0.809	0.752	0.799	0.729	0.697	0.742	0.742
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.914	0.865	0.791	0.725	0.725
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.634	0.663	0.719	0.634	0.769	0.802	0.751	0.810	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.170	0.156	0.128	0.115	0.150	0.188	0.144	0.148	0.135	0.216	0.187	0.187
50 Burnham Avenue, Wolf Lake	0.334	0.247	0.275	0.228	0.223	0.213	0.208	0.200	0.237	0.198	0.267	0.267
55 130th Street, Calumet River	0.264	0.253	0.219	0.220	0.312	0.248	0.247	0.230	0.301	0.243	0.238	0.238
86 Burnham Avenue, Grand Calumet River	0.696	0.809	0.722	0.740	0.812	0.873	0.783	0.823	0.711	0.845	0.940	0.940
56 Indiana Avenue, Little Calumet River	0.348	0.324	0.317	0.278	0.375	0.394	0.375	0.382	0.317	0.422	0.439	0.439
76 Halsted Street, Little Calumet River	0.534	0.602	0.582	0.536	0.665	0.633	0.730	0.891	0.759	0.760	0.790	0.790
52 Wentworth Avenue, Little Calumet River	2.539	2.962	3.129	1.764	2.838	12.390	4.096	4.255	1.980	1.061	1.534	1.534
54 Joe Orr Road, Thorn Creek	0.549	0.659	0.474	0.626	0.483	0.746	0.674	0.737	0.596	0.594	0.747	0.747
97 170th Street, Thorn Creek	0.470	0.539	0.492	0.543	0.634	1.613	0.520	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.803	1.115	1.182	0.887	1.107	2.865	1.627	1.609	0.722	0.730	0.784	0.784
58 Ashland Avenue, Calumet Sag Channel	0.514	0.630	0.646	0.563	1.020	1.188	0.828	0.935	0.631	0.750	0.810	0.810
59 Cicero Avenue, Calumet Sag Channel	0.507	0.639	0.637	0.575	0.719	0.935	0.935	0.916	0.647	0.737	0.678	0.678
43 Route 83, Calumet Sag Channel	0.511	0.562	0.662	0.590	0.659	0.925	0.805	0.827	0.650	0.652	0.726	0.726
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.231	0.208	0.209	0.198	0.206	0.234	0.257	0.171	0.192	0.191	0.237	0.237
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.170	ND	0.295	0.303	0.419	0.453	0.235	0.235
89 Walnut Lane, West Branch DuPage River	0.643	0.629	0.643	0.568	0.625	0.744	0.721	0.723	0.719	0.844	0.650	0.650
64 Lake Street, West Branch DuPage River	0.569	0.529	0.603	0.572	0.601	0.631	0.540	0.587	0.598	1.061	0.538	0.538
79 Higgins Road, Salt Creek	0.259	0.213	0.207	0.189	0.191	0.238	0.253	0.294	0.282	0.328	0.203	0.203
80 Arlington Heights Road, Salt Creek	0.563	0.523	0.553	0.546	0.547	0.602	0.573	0.643	0.595	0.851	0.617	0.617
18 Devon Avenue, Salt Creek	0.564	0.534	0.498	0.549	0.568	0.578	0.558	0.608	0.628	0.744	0.474	0.474
24 Wolf Road, Salt Creek	0.498	0.480	0.585	0.565	0.542	0.634	0.523	0.542	0.600	0.586	0.504	0.504
109 Brookfield Avenue, Salt Creek	0.474	0.459	0.467	0.511	0.474	0.698	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.447	0.499	0.486	0.607	0.753	0.531	0.531
77 Elmhurst Road, Higgins Creek	0.296	0.220	0.190	0.223	0.222	0.208	0.315	0.317	0.207	0.257	0.184	0.184
78 Wille Road, Higgins Creek	0.897	0.959	0.879	0.812	0.858	0.788	0.762	0.746	0.745	0.773	0.750	0.750
12 Lake-Cook Road, Buffalo Creek	0.234	0.191	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.424	0.425	0.438	0.400	0.525	0.508	0.393	0.402	0.458	0.560	0.450	0.450
17 Oakton Street, Des Plaines River	0.374	0.369	0.468	0.382	0.459	0.459	0.367	0.400	0.472	0.497	0.328	0.328
19 Belmont Avenue, Des Plaines River	0.442	0.468	0.468	0.435	0.541	0.502	0.425	0.459	0.506	0.563	0.384	0.384
20 Roosevelt Road, Des Plaines River	0.453	0.452	0.449	0.417	0.496	0.516	0.464	0.526	0.455	0.546	0.384	0.384
22 Ogden Avenue, Des Plaines River	0.437	0.447	0.440	0.429	0.592	0.541	0.408	0.410	0.514	0.524	0.418	0.418
23 Willow Springs Road, Des Plaines River	0.440	0.440	0.530	0.431	0.488	0.557	0.420	0.488	0.488	0.485	0.415	0.415
29 Stephen Street, Des Plaines River	0.470	0.453	0.510	0.427	0.536	0.516	0.386	0.486	0.514	0.543	0.429	0.429
91 Material Service Road, Des Plaines River	0.421	0.443	0.540	0.419	0.545	0.518	0.377	0.490	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.265	0.240	0.251	0.302	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-74: TOTAL ORGANIC CARBON MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	7.50	7.00	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	3.90	4.58	6.43	8.88	10.67	9.50	12.60	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.05	4.08	6.88	8.40	8.88	9.36	8.40	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.75	6.17	9.02	10.10	11.00	11.40	9.73	12.40	13.36	11.67	11.40
104 Glenview Road, North Branch Chicago River	4.40	4.63	5.98	8.33	9.00	8.00	8.10	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	4.96	5.43	7.62	9.30	9.89	10.60	9.36	12.30	11.27	13.83	12.80
105 Frontage Road, Skokie River	4.29	4.43	5.64	7.17	7.75	8.92	7.60	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	4.25	4.50	6.97	9.67	8.82	8.50	7.83	10.73	9.82	11.58	12.82
96 Albany Avenue, North Branch Chicago River	4.32	4.51	6.70	8.18	9.30	8.92	8.33	8.33	ND	ND	ND
35 Central Street, North Shore Channel	1.78	1.92	2.49	4.22	4.89	5.33	3.33	5.67	6.30	7.00	7.70
102 Oakton Street, North Shore Channel	2.92	3.38	4.42	5.92	7.44	7.27	4.20	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.03	4.12	6.41	8.08	8.92	8.83	8.00	10.58	9.92	9.08	14.00
101 Foster Avenue, North Shore Channel	4.07	4.26	6.48	8.25	8.42	8.67	7.60	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	3.88	4.32	6.68	8.08	8.67	9.17	7.75	10.17	9.08	9.25	11.92
73 Diversey Parkway, North Branch Chicago River	4.10	4.08	6.26	7.83	8.92	9.25	7.92	10.33	9.25	9.17	13.25
46 Grand Avenue, North Branch Chicago River	4.01	4.25	6.49	7.92	8.92	8.50	7.83	9.92	8.83	9.00	10.36
74 Lake Shore Drive, Chicago River	1.87	1.75	2.54	4.22	4.30	4.42	4.58	6.58	4.91	5.17	7.91
100 Wells Street, Chicago River	2.25	2.27	3.55	5.17	6.25	5.33	4.71	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	3.03	3.29	5.03	7.00	7.91	7.75	6.67	9.08	8.00	7.33	7.82
108 Loomis Street, South Branch Chicago River	3.17	3.35	5.52	6.83	8.00	7.00	6.22	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.34	3.27	5.44	7.08	7.83	8.17	8.50	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	3.15	3.37	5.52	6.67	7.67	ND	ND	12.78	8.00	7.83	10.67
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	7.58	6.90	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.24	3.75	5.08	7.00	7.33	7.50	6.58	8.58	7.25	10.33	9.45
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.80	4.16	5.92	7.50	8.25	7.92	7.25	9.75	8.45	13.67	11.18
42 Route 83, Chicago Sanitary & Ship Canal	4.19	4.39	6.05	8.17	8.00	8.83	7.67	12.55	8.83	11.83	15.00
48 Stephen Street, Chicago Sanitary & Ship Canal	4.20	4.54	6.32	7.75	7.92	8.67	7.92	10.09	9.36	12.08	11.82
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	4.34	4.40	6.01	8.00	8.29	8.26	7.59	9.62	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	1.48	1.43	1.77	3.40	3.17	3.75	3.25	6.67	4.00	4.39	7.32
50 Burnham Avenue, Wolf Lake	4.00	3.81	5.37	6.42	6.17	5.50	5.18	6.92	6.42	6.67	8.25
55 130th Street, Calumet River	2.75	2.62	3.39	4.55	4.70	4.92	4.73	6.27	5.61	5.61	7.43
86 Burnham Avenue, Grand Calumet River	17.54	7.45	9.27	12.33	12.90	11.36	9.90	14.18	12.18	11.17	18.25
56 Indiana Avenue, Little Calumet River	3.47	3.39	3.77	5.11	5.64	6.42	5.75	7.67	6.68	6.73	11.24
76 Halsted Street, Little Calumet River	4.19	4.40	5.90	7.67	8.45	8.33	7.50	10.92	9.26	9.13	13.52
52 Wentworth Avenue, Little Calumet River	6.22	9.02	8.54	12.22	11.60	10.73	10.18	12.82	11.64	11.75	18.25
54 Joe Orr Road, Thorn Creek	5.04	5.33	8.00	10.43	9.67	10.43	9.08	12.75	10.25	11.17	13.50
97 170th Street, Thorn Creek	5.22	6.26	6.72	9.27	9.60	9.17	9.10	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	6.68	5.67	7.46	9.60	9.60	9.00	9.10	12.73	11.09	10.08	13.42
58 Ashland Avenue, Calumet Sag Channel	4.60	4.65	6.04	8.00	8.50	8.75	8.25	11.58	9.42	8.67	14.47
59 Cicero Avenue, Calumet Sag Channel	4.55	4.77	6.41	8.17	8.64	8.67	8.17	11.50	9.74	10.00	13.38
43 Route 83, Calumet Sag Channel	4.64	4.77	6.54	8.00	8.55	8.25	8.25	17.25	9.37	9.65	12.29
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	5.13	5.75	7.28	8.64	9.90	9.22	8.82	12.29	8.70	9.90	10.88
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	12.00	ND	12.75	13.78	12.67	14.43	14.40
89 Walnut Lane, West Branch DuPage River	6.73	6.83	9.55	12.45	11.91	11.75	11.17	12.75	11.45	14.09	12.36
64 Lake Street, West Branch DuPage River	6.05	6.23	8.65	10.09	10.83	10.25	10.64	12.64	10.73	12.00	12.73
79 Higgins Road, Salt Creek	5.27	5.60	8.42	9.45	9.56	10.00	9.20	11.40	10.50	11.22	12.10
80 Arlington Heights Road, Salt Creek	4.45	5.00	7.13	9.42	9.92	10.50	9.83	10.67	9.82	11.00	12.27
18 Devon Avenue, Salt Creek	4.49	4.90	6.86	9.58	10.08	9.80	9.42	10.58	9.91	10.82	12.55
24 Wolf Road, Salt Creek	4.07	4.68	6.73	8.27	8.67	8.45	8.33	10.80	8.64	10.50	10.09
109 Brookfield Avenue, Salt Creek	4.29	4.65	7.30	10.82	8.70	8.83	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	9.67	8.50	10.10	8.27	10.00	9.90
77 Elmhurst Road, Higgins Creek	4.66	5.13	7.75	11.00	10.40	9.83	10.09	11.80	10.82	11.00	11.00
78 Wille Road, Higgins Creek	5.03	5.59	7.94	10.55	10.25	9.83	9.92	12.08	10.18	12.00	12.82
12 Lake-Cook Road, Buffalo Creek	6.10	5.94	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.90	7.21	7.48	9.27	9.67	9.25	8.67	11.17	9.73	11.00	12.80
17 Oakton Street, Des Plaines River	5.98	5.40	7.38	8.73	9.40	9.55	8.83	11.40	9.82	10.82	12.80
19 Belmont Avenue, Des Plaines River	5.75	5.56	7.53	9.27	9.50	9.67	8.92	11.10	9.55	11.18	11.73
20 Roosevelt Road, Des Plaines River	5.74	5.52	7.28	9.36	9.00	9.33	8.75	11.20	9.91	11.36	11.91
22 Ogden Avenue, Des Plaines River	5.36	5.14	7.00	9.27	9.20	9.25	8.50	10.80	9.73	10.82	12.36
23 Willow Springs Road, Des Plaines River	6.02	5.20	7.11	8.82	9.10	9.00	9.67	10.40	9.27	10.55	12.10
29 Stephen Street, Des Plaines River	5.20	5.12	7.08	8.45	9.36	9.00	9.25	9.60	9.09	11.36	13.45
91 Material Service Road, Des Plaines River	5.45	5.09	7.19	8.45	8.92	8.83	8.63	11.46	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	11.28	12.02	13.02	15.70	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-75: FECAL COLIFORM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (fcu/100mL)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	2683	4000	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2476	3196	1130	2494	3740	1344	1782	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	660	893	727	622	839	704	854	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	633	943	536	760	773	1143	767	1050	1697	1210	2139	
104 Glenview Road, North Branch Chicago River	827	855	649	1326	777	904	1112	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	736	657	649	1042	546	718	1750	1131	1919	1718	2903	
105 Frontage Road, Skokie River	199	119	160	159	225	357	490	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	600	1026	1121	996	1333	924	1377	1484	1498	878	769	
96 Albany Avenue, North Branch Chicago River	520	860	1119	1029	1498	1508	2517	4238	ND	ND	ND	ND
35 Central Street, North Shore Channel	66	90	144	330	291	483	356	270	130	241	88	
102 Oakton Street, North Shore Channel	638	1181	866	963	1487	1954	580	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	8875	8550	11481	5518	7588	8349	4211	9424	7866	6963	10671	
101 Foster Avenue, North Shore Channel	9612	7628	10290	6872	7917	10250	8703	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7479	6033	9748	5896	5940	7358	5958	7677	7686	7000	7034	
73 Diversey Parkway, North Branch Chicago River	3608	4237	5799	3426	4228	5833	3832	5539	4607	3796	4454	
46 Grand Avenue, North Branch Chicago River	1226	2054	1853	1583	2402	1919	1840	1715	1522	1636	3288	
74 Lake Shore Drive, Chicago River	86	31	81	46	53	36	66	91	23	62	37	
100 Wells Street, Chicago River	183	190	150	65	301	288	159	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	922	892	921	680	799	800	1622	1090	642	800	838	
108 Loomis Street, South Branch Chicago River	371	445	297	179	181	253	325	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	294	493	156	202	294	548	1530	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	349	523	223	164	173	ND	ND	160	282	510	543	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	180	393	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	347	469	129	104	153	245	303	154	327	352	245	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4908	3906	2668	2637	4314	3609	4126	5043	4970	5427	5730	
42 Route 83, Chicago Sanitary & Ship Canal	1289	1303	1011	935	866	460	1580	1046	886	1300	1941	
48 Stephen Street, Chicago Sanitary & Ship Canal	645	894	469	386	345	419	812	537	781	849	867	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	227	308	205	186	179	159	291	256	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	12	11	12	11	12	12	20	18	12	27	13	
50 Burnham Avenue, Wolf Lake	70	21	77	53	37	13	32	24	15	13	18	
55 130th Street, Calumet River	19	24	37	26	32	19	82	53	23	26	30	
86 Burnham Avenue, Grand Calumet River	2448	420	2377	1104	1695	488	2056	3323	4100	4325	1849	
56 Indiana Avenue, Little Calumet River	49	89	73	103	75	89	364	124	55	130	78	
76 Halsted Street, Little Calumet River	3259	2159	2759	2775	2990	2024	2550	4774	3792	3747	2927	
52 Wentworth Avenue, Little Calumet River	1477	956	1934	1284	2247	976	2211	3501	1701	2033	1402	
54 Joe Orr Road, Thorn Creek	2411	3309	14257	1588	2922	1083	1083	2617	2173	1132	6513	
97 170th Street, Thorn Creek	698	642	2119	1292	1347	637	1197	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	816	431	3181	4103	2329	576	1623	3088	5189	1724	2531	
58 Ashland Avenue, Calumet Sag Channel	2122	1580	2365	2616	2135	1157	3095	3170	2660	2220	4858	
59 Cicero Avenue, Calumet Sag Channel	1178	539	857	1041	1105	471	1057	656	673	749	2165	
43 Route 83, Calumet Sag Channel	188	97	57	147	103	93	298	79	87	201	227	
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	181	264	417	92	387	113	129	948	146	136	355	
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1400	ND	1075	2538	386	603	1624	
89 Walnut Lane, West Branch DuPage River	2013	857	2026	1121	2181	1600	1273	1943	590	666	1816	
64 Lake Street, West Branch DuPage River	2406	949	2144	967	1731	1532	1739	1889	658	1083	1564	
79 Higgins Road, Salt Creek	250	153	499	84	568	82	49	305	45	52	97	
80 Arlington Heights Road, Salt Creek	312	417	389	529	678	303	426	623	265	260	725	
18 Devon Avenue, Salt Creek	930	946	1014	1214	1668	939	1140	807	687	1154	845	
24 Wolf Road, Salt Creek	688	1303	1034	337	2012	440	507	1109	468	1038	2552	
109 Brookfield Avenue, Salt Creek	1425	1618	1480	1499	3461	2056	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	782	599	1459	1320	653	1211	
77 Elmhurst Road, Higgins Creek	2370	1915	1932	488	7317	2395	598	636	369	267	498	
78 Wille Road, Higgins Creek	514	275	382	162	559	475	256	536	223	181	489	
12 Lake-Cook Road, Buffalo Creek	823	236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	310	362	650	240	566	284	269	440	350	392	735	
17 Oakton Street, Des Plaines River	313	616	639	342	1128	345	492	915	765	360	876	
19 Belmont Avenue, Des Plaines River	516	525	523	410	1021	709	440	734	1210	574	1780	
20 Roosevelt Road, Des Plaines River	634	897	950	662	1309	913	422	790	1224	725	1979	
22 Ogden Avenue, Des Plaines River	767	1509	1247	792	1023	900	519	1121	609	538	1722	
23 Willow Springs Road, Des Plaines River	302	1092	480	303	1664	351	232	835	367	423	533	
29 Stephen Street, Des Plaines River	184	617	248	202	568	276	275	528	270	241	921	
91 Material Service Road, Des Plaines River	192	327	260	135	564	122	367	295	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	6187	3225	3763	2603	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-76: ESCHERICHIA COLI MEAN HISTORY**  
**1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	1800	2068	ND	2140	5099	ND	1232	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	347	374	943	451	380	506	541	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	921	799	243	956	319	429	467	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	266	291	443	432	180	254	629	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	527	147	515	579	418	581	905	ND	ND	ND	ND
105 Frontage Road, Skokie River	118	71	276	142	134	387	634	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	386	840	734	604	1110	534	812	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	400	470	791	337	934	1553	9471	ND	ND	ND	ND
35 Central Street, North Shore Channel	44	222	78	267	271	4382	139	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	562	782	974	835	4035	1409	217	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	8540	5772	10341	3302	7271	9539	861	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	12046	6040	10236	5652	8204	14164	8842	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	9093	5411	9844	6376	7083	9158	3387	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	3900	3231	7280	2569	4688	6747	2627	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	1197	1245	2667	1272	2882	2128	1123	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	81	16	24	49	44	20	24	ND	ND	ND	ND
100 Wells Street, Chicago River	169	184	119	49	231	307	175	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	584	1253	461	463	427	565	417	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	336	599	61	72	70	176	183	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	115	448	102	78	251	173	810	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	156	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	342	77	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	932	403	78	177	94	224	67	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5416	3330	2267	2567	2488	2925	3795	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	867	1365	1340	553	787	715	2345	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	645	1049	796	407	322	530	922	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	251	316	148	128	81	177	69	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	10	10	12	10	14	10	10	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	89	19	183	37	58	12	9	ND	ND	ND	ND
55 130th Street, Calumet River	12	16	57	15	90	14	10	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	682	262	11506	6199	6709	449	220	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	29	181	63	48	142	101	228	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	1929	2372	2838	2420	2787	1815	3240	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	2677	829	2278	3794	1169	846	3688	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	2611	2124	16399	1508	22000	721	1339	ND	ND	ND	ND
97 170th Street, Thorn Creek	1138	364	2442	1631	2984	529	2237	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1530	288	5565	5967	2705	615	1622	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	3512	1259	2253	2454	1264	690	2661	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	1793	396	797	1139	418	500	271	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	822	24	60	218	39	75	145	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	148	514	775	42	103	82	251	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1259	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	720	675	2202	727	2139	1366	395	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	1714	1451	2216	908	1357	1150	1102	ND	ND	ND	ND
79 Higgins Road, Salt Creek	114	22	158	89	423	61	34	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	221	427	487	370	552	209	294	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	483	530	1202	1164	2722	1146	3950	ND	ND	ND	ND
24 Wolf Road, Salt Creek	286	711	1077	165	7589	336	30	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	492	723	1289	2994	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	330	375	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1897	1217	890	268	5717	2097	687	ND	ND	ND	ND
78 Wille Road, Higgins Creek	221	207	1077	127	539	425	71	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	287	216	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	274	398	684	77	223	569	163	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	232	555	295	161	147	553	185	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	271	839	439	458	277	1018	202	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	457	1165	480	524	773	903	419	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	667	1618	606	724	88	837	515	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	268	855	169	202	1220	506	253	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	165	431	186	122	117	641	273	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	263	381	114	248	363	90	644	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	6129	2664	2794	2596	ND	ND	ND	ND	ND	ND	ND

ND = No Data



TABLE AII-77: TOTAL CALCIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	106.6	80.3	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	73.6	62.0	70.3	85.3	54.9	79.0	79.8	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	75.5	73.9	80.8	71.5	70.9	72.8	71.0	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	64.2	62.9	65.6	64.3	64.1	71.9	74.2	66.0	69.1	71.3	65.5
104 Glenview Road, North Branch Chicago River	62.8	62.3	61.5	64.4	65.5	69.0	68.8	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	75.8	68.5	70.5	74.2	69.8	75.4	79.4	73.1	70.0	82.2	76.6
105 Frontage Road, Skokie River	62.8	62.1	62.0	63.2	59.9	67.7	66.2	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	64.2	65.9	70.6	68.7	65.7	70.0	70.6	63.8	64.7	69.0	70.2
96 Albany Avenue, North Branch Chicago River	65.5	67.9	69.4	65.1	64.6	69.2	72.8	56.6	ND	ND	ND
35 Central Street, North Shore Channel	39.4	37.5	39.1	38.8	41.0	43.6	37.7	43.4	43.4	45.1	42.6
102 Oakton Street, North Shore Channel	49.3	47.7	47.8	45.8	50.4	51.9	42.6	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	56.0	53.3	51.9	57.1	53.4	58.5	61.8	52.9	56.5	58.7	55.3
101 Foster Avenue, North Shore Channel	58.0	54.2	52.9	57.7	54.3	58.8	57.6	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	59.1	56.4	55.7	59.8	56.4	60.9	63.9	55.6	57.8	62.8	58.6
73 Diversey Parkway, North Branch Chicago River	57.3	56.2	54.7	60.8	55.4	61.7	65.3	54.9	58.5	62.5	58.2
46 Grand Avenue, North Branch Chicago River	57.9	56.9	57.3	62.1	56.6	60.2	64.3	55.4	56.5	61.9	57.4
74 Lake Shore Drive, Chicago River	42.0	38.4	40.6	44.2	40.9	43.1	46.1	44.2	39.9	41.1	39.3
100 Wells Street, Chicago River	44.8	44.1	44.1	46.0	48.0	49.3	49.4	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	51.8	51.3	52.0	52.8	55.2	57.3	58.4	53.3	55.7	54.3	48.5
108 Loomis Street, South Branch Chicago River	52.7	53.6	54.3	52.0	52.8	56.8	51.5	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	50.3	51.2	51.9	53.3	52.5	56.7	58.0	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	52.3	53.8	52.9	53.1	53.4	ND	ND	53.0	56.5	55.0	51.7
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	57.8	56.1	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	53.3	51.2	54.5	55.1	52.1	59.9	55.7	53.3	54.4	52.8	52.6
41 Harlem Avenue, Chicago Sanitary & Ship Canal	56.2	54.8	54.2	54.6	53.8	57.3	59.6	54.3	56.8	56.1	56.0
42 Route 83, Chicago Sanitary & Ship Canal	56.0	56.3	56.4	56.5	56.6	58.7	59.8	53.6	54.9	56.1	56.9
48 Stephen Street, Chicago Sanitary & Ship Canal	58.3	59.0	60.1	59.8	58.7	61.6	63.4	58.5	57.4	57.8	61.5
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	59.1	58.4	59.5	59.9	59.0	62.6	63.8	57.3	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	37.3	35.9	36.5	37.1	38.6	41.1	40.2	39.7	39.5	39.0	38.6
50 Burnham Avenue, Wolf Lake	36.2	30.9	37.3	36.6	35.3	35.9	34.5	34.3	32.5	35.8	38.2
55 130th Street, Calumet River	46.3	42.6	43.4	43.2	43.4	47.2	48.8	44.9	43.4	43.9	44.8
86 Burnham Avenue, Grand Calumet River	92.0	98.0	68.3	82.5	86.9	79.6	85.6	73.3	71.0	73.4	75.0
56 Indiana Avenue, Little Calumet River	55.0	49.6	47.8	49.2	52.0	58.6	52.5	49.7	50.4	54.2	55.3
76 Halsted Street, Little Calumet River	66.3	65.8	63.1	62.1	62.2	64.8	71.1	63.6	62.1	63.7	66.8
52 Wentworth Avenue, Little Calumet River	79.9	88.1	74.4	86.4	96.3	94.5	82.8	85.9	75.0	80.5	88.5
54 Joe Orr Road, Thorn Creek	78.7	85.4	76.0	80.8	64.1	85.5	85.5	72.8	75.6	76.9	80.0
97 170th Street, Thorn Creek	71.6	87.7	83.0	84.0	80.6	100.8	88.6	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	69.8	86.4	75.4	78.9	84.3	86.5	79.0	84.5	75.2	72.8	81.9
58 Ashland Avenue, Calumet Sag Channel	61.8	68.3	65.3	65.4	66.2	73.7	76.2	67.1	64.0	61.0	68.7
59 Cicero Avenue, Calumet Sag Channel	61.8	71.3	65.4	66.4	64.8	68.2	72.7	68.1	65.2	66.6	68.8
43 Route 83, Calumet Sag Channel	61.8	69.4	64.7	63.1	65.3	69.8	72.5	70.4	66.1	65.7	70.5
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	68.5	70.9	65.6	76.3	61.3	77.0	78.0	64.8	74.1	80.4	70.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	59.8	ND	99.6	63.8	76.9	76.9	79.3
89 Walnut Lane, West Branch DuPage River	61.6	65.8	58.5	64.5	55.8	63.1	67.8	59.3	61.9	61.2	60.0
64 Lake Street, West Branch DuPage River	58.8	63.7	59.7	70.4	55.6	65.0	69.3	59.9	60.9	65.3	63.8
79 Higgins Road, Salt Creek	63.5	63.3	65.9	75.8	58.1	67.5	79.3	65.9	60.0	69.6	65.1
80 Arlington Heights Road, Salt Creek	62.7	64.5	66.4	64.1	60.9	68.7	69.2	59.4	58.4	63.1	63.7
18 Devon Avenue, Salt Creek	63.0	65.4	66.4	64.4	58.9	68.2	68.9	58.8	60.1	63.7	67.2
24 Wolf Road, Salt Creek	65.1	64.0	66.1	69.7	59.2	73.7	75.3	67.7	66.9	85.3	69.0
109 Brookfield Avenue, Salt Creek	62.6	63.1	64.2	69.9	58.5	58.5	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	92.5	80.7	65.5	65.1	75.8	68.0
77 Elmhurst Road, Higgins Creek	44.5	54.3	60.1	73.7	48.3	63.2	79.6	62.4	67.5	79.4	66.5
78 Wille Road, Higgins Creek	71.0	69.4	69.2	70.9	63.4	74.4	80.9	67.6	72.3	80.1	73.6
12 Lake-Cook Road, Buffalo Creek	69.2	75.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	67.9	73.3	66.8	71.1	65.2	76.8	76.5	67.3	60.5	73.9	70.7
17 Oakton Street, Des Plaines River	64.2	69.1	66.6	72.2	64.1	75.6	81.1	67.1	63.7	76.4	70.0
19 Belmont Avenue, Des Plaines River	64.2	69.2	67.1	72.7	62.4	74.7	77.9	65.5	62.1	73.4	71.4
20 Roosevelt Road, Des Plaines River	63.9	68.6	65.8	71.0	60.9	74.7	75.4	64.2	61.5	73.6	72.0
22 Ogden Avenue, Des Plaines River	62.6	65.2	63.7	69.9	68.7	73.8	75.4	65.2	63.6	74.1	70.8
23 Willow Springs Road, Des Plaines River	62.7	64.5	66.1	69.7	61.7	70.8	75.5	66.0	62.6	74.2	70.9
29 Stephen Street, Des Plaines River	65.1	69.8	67.4	70.0	65.9	76.6	76.6	67.2	63.1	75.1	75.3
91 Material Service Road, Des Plaines River	66.3	71.0	68.3	71.1	65.6	74.9	73.0	69.3	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	77.8	85.6	77.1	86.8	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-78: TOTAL MAGNESIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	46.1	32.8	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	28.1	25.7	29.0	35.4	23.6	34.0	37.7	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	29.7	29.7	32.2	27.6	28.3	30.5	31.6	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	28.7	28.9	33.1	29.2	29.2	33.0	33.9	30.0	31.6	33.3	30.8
104 Glenview Road, North Branch Chicago River	26.9	27.1	27.7	27.3	28.3	29.6	31.3	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	31.3	30.3	32.4	31.6	29.8	33.5	35.4	32.8	31.4	37.8	35.2
105 Frontage Road, Skokie River	26.3	26.5	27.2	26.9	25.3	29.2	30.5	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	27.2	27.9	30.7	28.4	27.0	29.8	31.8	27.9	27.8	31.9	31.7
96 Albany Avenue, North Branch Chicago River	27.6	28.3	29.7	26.8	26.6	29.3	31.4	23.2	ND	ND	ND
35 Central Street, North Shore Channel	13.3	12.5	13.3	13.1	14.1	15.2	12.2	15.7	15.4	14.9	14.4
102 Oakton Street, North Shore Channel	16.9	16.7	16.9	15.8	17.5	17.9	14.4	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	19.5	19.0	18.2	20.3	19.1	21.2	23.2	19.3	19.9	21.8	20.3
101 Foster Avenue, North Shore Channel	20.2	19.4	18.6	20.8	19.4	21.3	21.3	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	21.3	20.9	20.1	22.2	20.5	22.8	25.1	21.0	21.5	24.9	22.3
73 Diversey Parkway, North Branch Chicago River	20.7	20.7	19.5	22.4	20.0	23.1	25.6	20.8	21.6	24.4	21.7
46 Grand Avenue, North Branch Chicago River	20.9	21.0	20.8	22.3	20.4	22.5	24.8	20.9	20.9	24.2	21.5
74 Lake Shore Drive, Chicago River	14.5	12.9	14.2	15.5	13.7	14.7	16.1	15.7	13.4	14.3	12.9
100 Wells Street, Chicago River	15.9	15.3	15.3	16.3	16.7	17.4	18.0	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	18.4	18.6	18.6	19.0	19.9	21.1	22.2	19.4	20.5	20.7	17.4
108 Loomis Street, South Branch Chicago River	18.7	19.6	19.8	19.0	18.8	21.0	19.0	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	17.7	18.4	18.5	19.2	18.7	20.6	21.7	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	18.6	19.6	19.2	19.3	19.1	ND	ND	20.0	21.3	21.4	18.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	21.4	21.2	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.9	18.3	19.7	19.9	18.5	21.9	21.3	19.7	20.3	20.0	18.7
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.8	19.9	19.6	19.9	19.2	21.1	23.1	20.1	21.0	21.8	20.1
42 Route 83, Chicago Sanitary & Ship Canal	20.2	20.4	20.5	20.6	20.2	21.8	23.0	19.8	20.2	21.5	20.4
48 Stephen Street, Chicago Sanitary & Ship Canal	21.2	21.5	22.2	21.9	21.3	22.9	24.6	21.9	21.2	22.4	22.6
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	21.3	21.3	21.8	22.0	21.4	23.0	24.9	21.8	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	12.1	11.5	12.1	12.3	12.8	13.2	13.1	13.1	13.4	13.4	12.9
50 Burnham Avenue, Wolf Lake	12.1	11.9	13.7	13.4	13.2	14.4	12.6	13.0	13.2	13.3	12.9
55 130th Street, Calumet River	15.8	14.2	15.0	14.8	14.8	15.9	16.8	15.5	15.0	14.9	15.4
86 Burnham Avenue, Grand Calumet River	39.3	48.7	44.4	53.9	65.6	67.1	57.1	57.7	54.5	59.8	51.2
56 Indiana Avenue, Little Calumet River	19.8	17.6	17.8	18.5	19.2	23.8	20.1	22.3	21.6	27.8	26.5
76 Halsted Street, Little Calumet River	22.8	22.6	22.3	22.0	21.5	23.0	26.5	23.4	22.4	25.7	25.6
52 Wentworth Avenue, Little Calumet River	31.4	33.9	29.7	34.3	37.2	38.4	33.6	35.3	40.1	34.0	36.8
54 Joe Orr Road, Thorn Creek	30.1	36.3	33.8	33.9	26.5	38.4	39.3	34.2	36.3	36.0	36.8
97 170th Street, Thorn Creek	28.4	37.7	36.6	36.7	34.6	49.1	41.3	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	27.0	35.3	31.6	32.5	35.0	37.3	35.1	38.8	33.8	32.2	36.5
58 Ashland Avenue, Calumet Sag Channel	21.8	24.2	23.8	23.8	24.2	27.9	28.3	26.0	24.5	24.3	26.5
59 Cicero Avenue, Calumet Sag Channel	21.8	25.8	23.8	24.7	23.7	25.4	27.7	26.4	24.8	26.8	26.8
43 Route 83, Calumet Sag Channel	22.4	25.4	23.7	23.6	24.1	26.0	27.8	26.9	25.4	26.9	28.0
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	30.3	30.6	29.8	34.4	27.5	34.6	36.7	31.3	36.5	37.9	31.8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	22.3	ND	41.5	24.1	51.0	31.1	30.9
89 Walnut Lane, West Branch DuPage River	23.0	24.3	22.0	23.9	20.2	23.9	26.8	23.7	24.7	23.2	23.3
64 Lake Street, West Branch DuPage River	22.3	23.6	22.3	26.2	20.3	24.8	27.8	23.6	24.0	25.2	25.6
79 Higgins Road, Salt Creek	26.2	26.4	29.5	31.4	23.2	31.2	36.7	28.9	27.8	30.6	28.9
80 Arlington Heights Road, Salt Creek	24.3	24.9	25.9	24.4	23.4	27.0	28.6	24.1	23.5	25.1	26.1
18 Devon Avenue, Salt Creek	24.5	25.2	25.7	24.5	22.7	26.6	28.5	23.6	24.1	25.8	27.7
24 Wolf Road, Salt Creek	26.0	25.6	27.3	28.2	23.3	30.1	32.5	28.3	28.7	34.2	28.8
109 Brookfield Avenue, Salt Creek	25.1	25.3	26.7	28.3	23.2	24.0	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	37.4	34.6	27.7	28.0	32.0	29.2
77 Elmhurst Road, Higgins Creek	14.5	18.5	20.1	26.3	15.6	22.5	32.5	22.9	28.5	33.7	26.8
78 Wille Road, Higgins Creek	25.6	25.1	25.6	26.2	22.8	27.9	32.6	25.8	28.2	29.5	28.6
12 Lake-Cook Road, Buffalo Creek	30.4	33.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	30.0	32.7	29.6	31.8	28.7	35.1	36.1	31.6	27.7	33.4	32.8
17 Oakton Street, Des Plaines River	28.5	30.7	29.9	32.5	27.9	33.9	37.7	30.7	28.6	34.8	32.4
19 Belmont Avenue, Des Plaines River	27.7	29.7	29.1	31.1	25.9	33.0	35.8	29.7	27.6	33.1	32.1
20 Roosevelt Road, Des Plaines River	27.7	29.3	28.7	31.4	25.5	33.0	35.0	29.3	27.6	34.2	32.3
22 Ogden Avenue, Des Plaines River	26.6	27.3	27.5	30.1	27.8	31.6	33.8	29.1	28.4	32.7	31.0
23 Willow Springs Road, Des Plaines River	26.9	27.4	28.8	30.3	25.9	31.0	34.4	29.7	28.3	33.4	32.0
29 Stephen Street, Des Plaines River	28.2	29.5	29.2	30.2	27.4	32.7	35.7	30.0	28.0	33.8	33.3
91 Material Service Road, Des Plaines River	28.2	30.3	29.9	30.9	27.5	32.5	32.8	31.0	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	28.3	30.4	28.0	31.9	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-79: HARDNESS MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	456	335	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	300	261	295	359	234	337	354	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	311	307	335	292	294	307	307	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	278	276	300	281	280	316	325	288	303	315	290	290
104 Glenview Road, North Branch Chicago River	268	267	268	273	280	294	301	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	318	296	310	316	297	326	344	318	304	361	336	336
105 Frontage Road, Skokie River	265	264	267	269	254	289	291	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	272	279	303	289	275	297	307	274	276	304	306	306
96 Albany Avenue, North Branch Chicago River	277	286	296	273	271	293	311	237	ND	ND	ND	ND
35 Central Street, North Shore Channel	153	145	153	151	160	171	144	173	172	174	166	166
102 Oakton Street, North Shore Channel	193	188	189	179	198	203	166	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	220	211	205	226	212	233	250	211	223	236	221	221
101 Foster Avenue, North Shore Channel	228	215	209	229	215	235	231	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	235	227	222	241	225	246	263	225	233	260	238	238
73 Diversey Parkway, North Branch Chicago River	228	226	217	244	221	249	268	223	235	257	234	234
46 Grand Avenue, North Branch Chicago River	231	229	229	247	226	243	263	224	227	254	232	232
74 Lake Shore Drive, Chicago River	165	149	160	174	159	168	182	175	155	162	151	151
100 Wells Street, Chicago River	177	173	173	182	189	195	198	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	205	205	207	210	219	230	237	213	223	221	192	192
108 Loomis Street, South Branch Chicago River	209	214	217	208	209	228	207	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	198	204	206	212	208	226	234	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	207	215	211	212	212	ND	ND	214	229	226	205	205
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	233	228	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	211	203	217	219	206	240	227	214	219	214	208	208
41 Harlem Avenue, Chicago Sanitary & Ship Canal	222	219	216	218	213	230	244	218	228	230	223	223
42 Route 83, Chicago Sanitary & Ship Canal	223	225	225	226	225	236	244	215	220	229	226	226
48 Stephen Street, Chicago Sanitary & Ship Canal	233	236	241	240	234	248	260	236	230	237	247	247
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	236	234	238	240	235	251	262	233	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	143	137	141	143	149	157	154	153	154	153	150	150
50 Burnham Avenue, Wolf Lake	140	126	149	146	143	149	138	139	136	144	148	148
55 130th Street, Calumet River	181	165	170	169	169	183	191	176	170	171	175	175
86 Burnham Avenue, Grand Calumet River	391	445	354	428	487	475	449	421	402	430	398	398
56 Indiana Avenue, Little Calumet River	219	196	193	199	209	244	214	216	215	250	247	247
76 Halsted Street, Little Calumet River	259	258	249	246	244	256	287	255	247	265	272	272
52 Wentworth Avenue, Little Calumet River	329	360	308	357	393	394	345	360	352	341	372	372
54 Joe Orr Road, Thorn Creek	321	363	329	341	269	371	375	323	338	340	351	351
97 170th Street, Thorn Creek	296	374	358	361	344	454	391	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	285	361	318	331	355	370	342	371	327	314	355	355
58 Ashland Avenue, Calumet Sag Channel	244	270	261	261	265	299	307	275	261	252	281	281
59 Cicero Avenue, Calumet Sag Channel	244	284	261	268	260	275	296	279	265	276	282	282
43 Route 83, Calumet Sag Channel	247	278	259	255	262	282	295	286	270	275	291	291
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	296	303	287	332	266	335	346	291	335	357	307	307
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	241	ND	419	258	402	320	325	325
89 Walnut Lane, West Branch DuPage River	249	265	237	260	222	256	280	246	256	248	246	246
64 Lake Street, West Branch DuPage River	239	256	241	283	222	264	287	247	251	267	265	265
79 Higgins Road, Salt Creek	266	267	286	319	241	297	349	284	264	300	282	282
80 Arlington Heights Road, Salt Creek	257	263	273	261	248	283	290	248	242	261	266	266
18 Devon Avenue, Salt Creek	258	267	272	262	241	280	289	244	249	265	282	282
24 Wolf Road, Salt Creek	269	265	277	290	244	308	322	286	285	354	291	291
109 Brookfield Avenue, Salt Creek	260	262	270	291	242	245	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	385	344	277	278	321	290	290
77 Elmhurst Road, Higgins Creek	171	212	233	292	185	250	332	250	286	337	276	276
78 Wille Road, Higgins Creek	283	277	278	285	252	301	336	275	297	321	301	301
12 Lake-Cook Road, Buffalo Creek	298	324	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	293	318	289	308	281	336	340	298	265	322	312	312
17 Oakton Street, Des Plaines River	278	299	289	314	275	328	358	294	277	334	308	308
19 Belmont Avenue, Des Plaines River	274	295	287	310	263	322	342	286	269	320	310	310
20 Roosevelt Road, Des Plaines River	273	292	283	307	257	323	333	281	267	324	313	313
22 Ogden Avenue, Des Plaines River	266	275	272	298	286	314	327	282	276	320	304	304
23 Willow Springs Road, Des Plaines River	268	274	284	299	260	305	330	287	273	323	309	309
29 Stephen Street, Des Plaines River	279	295	288	299	278	326	338	291	273	326	325	325
91 Material Service Road, Des Plaines River	282	302	293	305	277	321	317	301	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	311	339	308	348	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-80: GROSS ALPHA RADIOACTIVITY MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (pCi/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	11.71	6.01	6.20	6.38	3.79	4.49	4.77	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.08	5.73	7.14	4.36	4.80	4.41	4.67	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.25	4.94	5.34	4.74	4.53	3.82	6.05	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	5.37	5.40	5.50	4.19	4.47	3.72	4.57	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.29	5.04	5.50	4.51	4.34	3.78	4.86	ND	ND	ND	ND
105 Frontage Road, Skokie River	5.13	4.82	5.03	4.26	3.87	3.79	4.53	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	6.56	5.01	5.91	4.84	4.92	4.15	4.88	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	6.03	5.04	5.43	4.01	4.25	4.39	4.71	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.85	3.07	3.30	3.00	3.43	3.40	3.45	4.23	3.40	ND	2.44
102 Oakton Street, North Shore Channel	4.29	3.56	4.07	3.23	3.67	3.64	4.03	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.27	3.73	4.27	3.62	3.54	3.72	4.29	4.21	3.49	ND	3.09
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	4.29	3.09	3.23	3.43	3.14	3.27	4.01	ND	ND	ND	ND
100 Wells Street, Chicago River	4.27	3.41	3.61	3.44	3.41	3.45	4.25	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	5.40	3.84	4.17	3.87	3.67	3.70	4.32	4.22	3.96	ND	2.90
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.13	3.88	4.27	3.93	3.49	3.66	4.49	4.26	3.64	ND	3.07
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	4.36	3.57	ND	3.31
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	4.25	3.53	ND	3.06
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	4.89	4.08	4.53	4.00	3.62	3.83	4.50	4.44	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	4.14	3.66	3.03	2.90	3.22	3.00	3.79	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	4.16	3.44	3.33	2.94	3.12	2.95	3.44	ND	ND	ND	ND
55 130th Street, Calumet River	4.70	3.49	3.50	3.17	3.50	3.30	3.76	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	5.08	3.65	3.56	3.43	3.76	3.57	4.25	4.30	3.51	ND	2.95
76 Halsted Street, Little Calumet River	5.28	4.08	4.66	3.68	3.99	3.72	4.34	4.39	3.70	ND	3.17
52 Wentworth Avenue, Little Calumet River	5.63	4.24	4.88	3.80	4.59	4.46	4.43	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	7.27	6.25	8.99	6.72	4.00	8.21	5.73	ND	ND	ND	ND
97 170th Street, Thorn Creek	6.27	5.38	7.46	6.43	6.15	5.67	4.99	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5.46	5.09	6.19	4.35	4.73	4.68	4.63	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	4.41	3.62	ND	3.59
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	5.25	5.66	5.19	4.76	3.92	4.37	5.63	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	3.57	ND	5.23	4.21	4.14	ND	4.15
89 Walnut Lane, West Branch DuPage River	4.82	4.98	4.77	4.32	3.78	4.07	4.53	4.13	3.59	ND	3.87
64 Lake Street, West Branch DuPage River	4.85	5.10	5.06	4.51	3.69	4.18	4.91	ND	ND	ND	ND
79 Higgins Road, Salt Creek	5.39	5.27	6.27	5.20	4.65	4.23	5.54	4.37	3.64	ND	4.00
80 Arlington Heights Road, Salt Creek	5.18	5.59	5.71	4.59	4.28	4.00	5.07	4.19	3.53	ND	4.04
18 Devon Avenue, Salt Creek	5.17	5.51	5.85	4.59	4.28	3.97	5.06	ND	ND	ND	2.79
24 Wolf Road, Salt Creek	5.45	5.00	4.81	4.52	4.32	4.79	4.45	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	5.46	5.20	4.76	4.55	4.26	3.38	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	7.16	4.98	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	5.20	6.74	7.77	5.90	4.54	6.04	5.82	4.42	3.77	ND	4.37
78 Wille Road, Higgins Creek	5.28	4.78	4.79	4.19	3.98	4.43	5.44	4.24	3.69	ND	3.42
12 Lake-Cook Road, Buffalo Creek	5.67	5.13	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.22	4.86	5.27	4.08	4.04	4.10	5.26	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	5.35	4.97	5.30	4.27	4.08	4.50	5.26	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	5.33	5.06	5.46	4.09	4.15	4.56	4.69	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	5.36	5.29	5.02	4.43	4.15	4.92	4.80	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	5.54	4.95	5.07	4.10	4.25	4.62	4.83	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	5.25	5.06	4.93	4.21	4.19	4.17	4.85	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	5.24	5.40	4.93	4.19	4.29	4.74	4.86	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	5.11	4.84	5.70	4.72	4.19	4.13	5.12	4.54	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	6.14	7.04	6.48	5.09	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-81: GROSS BETA RADIOACTIVITY MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (pCi/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	11.96	11.59	11.58	16.75	8.90	8.00	11.92	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	9.70	9.95	11.05	11.05	10.27	9.99	7.77	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.66	7.40	7.15	7.41	7.37	6.64	7.80	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	7.18	9.08	11.27	9.48	8.90	12.84	7.59	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.94	8.19	8.83	7.13	7.35	6.70	6.56	ND	ND	ND	ND
105 Frontage Road, Skokie River	8.18	9.65	10.79	9.60	9.93	8.46	7.77	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	9.02	9.39	11.51	8.93	10.17	9.49	7.41	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	8.16	7.91	10.61	9.09	9.53	8.47	7.24	ND	ND	ND	ND
35 Central Street, North Shore Channel	4.89	4.50	4.28	4.48	4.82	6.79	4.44	6.67	5.97	ND	5.03
102 Oakton Street, North Shore Channel	5.91	6.97	6.88	5.78	6.45	6.70	5.43	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.70	7.91	7.88	8.29	7.70	7.94	7.12	11.30	8.46	ND	8.21
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	4.73	4.54	4.29	5.52	4.80	4.87	5.82	ND	ND	ND	ND
100 Wells Street, Chicago River	5.22	5.22	5.60	6.57	6.36	5.36	7.03	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	7.36	6.87	7.38	8.91	8.13	6.80	8.01	9.05	7.36	ND	6.07
41 Harlem Avenue, Chicago Sanitary & Ship Canal	9.43	8.29	7.98	8.92	8.38	6.66	8.32	9.33	9.18	ND	6.93
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	9.04	9.32	ND	7.70
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	9.65	10.26	ND	7.06
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	8.06	8.21	8.70	9.03	9.22	8.31	7.93	9.11	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	5.42	5.39	4.99	4.77	3.99	4.31	4.92	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	7.02	6.10	4.94	7.01	4.81	4.77	4.89	ND	ND	ND	ND
55 130th Street, Calumet River	7.24	6.50	6.14	6.79	6.10	5.72	6.36	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	7.77	7.82	6.63	6.99	7.48	6.80	8.20	7.59	7.07	ND	6.48
76 Halsted Street, Little Calumet River	8.74	8.96	9.11	8.41	9.54	9.00	7.44	10.27	9.25	ND	8.50
52 Wentworth Avenue, Little Calumet River	10.56	10.37	10.90	12.00	12.91	12.46	9.42	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	8.90	10.91	14.81	12.20	10.77	12.05	7.95	ND	ND	ND	ND
97 170th Street, Thorn Creek	10.69	10.72	13.04	11.68	12.14	12.41	8.40	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	9.52	10.20	11.25	10.88	10.93	10.76	8.89	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	9.40	8.97	ND	8.74
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	6.26	7.25	6.75	5.59	6.76	5.70	5.91	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	5.41	ND	7.02	7.30	8.49	ND	8.53
89 Walnut Lane, West Branch DuPage River	9.37	9.90	10.62	9.17	10.50	10.82	9.50	9.61	10.64	ND	10.63
64 Lake Street, West Branch DuPage River	9.31	10.36	10.94	10.71	10.56	10.72	10.14	ND	ND	ND	ND
79 Higgins Road, Salt Creek	7.55	7.71	8.35	8.15	8.41	8.09	7.05	7.01	6.06	ND	7.21
80 Arlington Heights Road, Salt Creek	9.10	10.09	10.26	9.43	9.54	9.12	9.32	9.75	11.95	ND	8.84
18 Devon Avenue, Salt Creek	9.40	9.35	11.03	9.86	10.54	9.77	8.27	ND	ND	ND	11.00
24 Wolf Road, Salt Creek	9.29	11.12	11.39	9.45	10.43	10.71	9.13	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	8.92	10.50	10.71	8.96	9.41	10.31	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	10.68	9.41	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	6.99	8.79	11.23	8.33	9.76	8.82	7.32	7.37	7.18	ND	6.88
78 Wille Road, Higgins Creek	11.79	12.65	15.45	13.34	13.15	15.24	15.72	16.49	16.83	ND	13.15
12 Lake-Cook Road, Buffalo Creek	8.20	7.37	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	8.94	10.05	11.41	9.53	10.71	9.94	8.21	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	8.40	9.12	10.16	9.23	10.61	9.39	7.81	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	9.81	10.24	11.57	9.77	10.62	10.73	8.37	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	9.70	9.69	10.91	8.99	10.23	10.38	7.89	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	9.27	9.32	11.04	9.51	9.44	10.33	7.92	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	8.01	9.51	10.68	9.37	9.32	10.28	8.78	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	9.48	10.39	10.87	9.16	10.23	10.53	8.36	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	9.94	9.65	12.34	9.48	10.75	9.88	8.77	9.21	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	7.41	8.04	8.52	8.22	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-82: CHLOROPHYLL *a* MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	6.3	10.6	14.6	29.1	47.9	9.6	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	12.4	13.4	29.3	21.1	19.0	14.4	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.7	12.0	8.0	6.7	11.1	11.6	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	12.2	19.7	10.1	12.1	32.9	18.1	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	8.9	7.6	12.0	22.5	10.3	11.5	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	18.1	32.9	15.6	20.4	21.5	21.5	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	9.7	16.7	24.2	15.8	16.7	16.2	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	9.0	14.0	35.6	21.5	18.1	11.7	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	6.2	4.5	3.6	2.9	8.1	12.5	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	16.2	22.6	8.1	12.5	4.8	17.0	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.3	2.0	1.6	1.4	1.2	1.5	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	1.1	1.6	2.2	1.9	4.3	1.9	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	2.9	4.7	2.8	4.0	4.9	4.9	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	2.4	4.3	2.6	3.8	4.7	3.9	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	4.9	6.1	4.3	5.8	5.7	3.6	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	2.2	1.4	3.3	4.7	3.2	2.7	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	2.2	2.5	2.8	3.0	3.7	3.0	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.0	4.4	4.2	4.1	5.2	4.6	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	3.7	6.0	5.4	7.2	6.1	3.4	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.4	5.7	21.5	27.4	9.5	9.2	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.5	5.4	14.1	7.9	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.4	4.7	6.5	6.0	6.3	5.0	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.6	2.8	3.6	3.4	2.7	2.4	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	5.2	4.1	6.4	4.2	4.4	4.2	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	6.1	3.7	5.3	3.5	7.2	3.9	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	5.5	4.0	5.2	3.9	7.2	5.3	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	1.1	1.4	0.9	1.4	1.6	1.7	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	6.2	4.7	6.8	4.8	8.7	3.8	ND	ND	ND	ND	ND
55 130th Street, Calumet River	4.0	3.3	2.9	4.0	7.1	9.9	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	101.0	27.4	57.7	61.9	38.1	31.1	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	14.0	25.8	16.4	7.2	24.4	26.4	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	6.6	8.1	7.1	3.8	10.3	9.1	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	13.0	4.3	6.0	5.5	9.0	5.7	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	3.0	3.7	12.4	6.7	8.5	9.2	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	9.2	5.3	8.2	8.8	11.5	10.4	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.1	4.7	9.2	7.5	10.0	11.2	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	7.2	9.5	10.4	4.8	15.3	11.5	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	7.8	9.0	7.5	5.2	20.3	11.8	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	6.5	6.3	8.8	4.4	24.5	15.8	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	10.9	13.9	12.5	8.1	14.6	15.9	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	7.3	5.4	9.1	3.7	9.0	5.9	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	23.2	20.2	24.6	15.4	29.5	24.9	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	39.0	33.9	31.0	36.4	37.4	30.6	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	13.8	16.5	12.4	11.2	18.6	12.9	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	14.3	17.6	14.8	15.7	19.5	16.2	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	7.4	12.0	11.0	6.4	12.9	13.7	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	7.3	16.1	11.3	9.9	17.9	12.8	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	22.8	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	14.7	11.9	14.1	8.5	11.4	14.3	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	3.8	3.0	2.5	2.6	4.3	2.8	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	23.2	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	13.7	16.9	27.5	21.0	34.1	27.3	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	12.3	13.0	34.3	18.3	42.2	20.5	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	6.1	12.3	23.2	13.0	35.3	11.2	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	6.7	11.4	23.4	14.2	28.7	10.0	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	6.1	15.8	19.1	14.1	45.5	12.9	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	5.1	13.5	29.0	15.9	33.0	20.6	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	9.5	17.5	49.0	25.5	49.1	34.5	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	11.9	23.8	34.6	40.4	56.2	35.3	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	21.4	14.5	59.8	10.6	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-83: BENZENE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-84: ETHYLBENZENE MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data



TABLE AII-85: TOLUENE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	1.267	0.000	0.000	0.500	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.333	0.667	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	1.067	0.000	2.200	1.000	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.640	0.000	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.625	0.000	0.333	0.000	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.800	0.000	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.857	0.000	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.625	0.000	2.200	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-86: XYLENE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-87: TOTAL SILVER MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.001	0.001	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001	0.000	0.001	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001	0.000	0.003	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.000	0.001	0.001	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	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	0.002	0.001	0.001	0.000	0.001	0.002	0.000
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.001	0.003	0.000	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.002	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.003	0.000	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.002	0.000	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	0.000	0.001	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.001	0.000	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001	0.000	0.002	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001	0.000	0.001	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.001	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.001	0.001
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001	0.000	0.002	0.005
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.000	0.004	0.003
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.000	0.001	0.003
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001	0.000	0.001	0.001
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.004	0.001	0.001	0.000	0.002	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001	0.000	0.002	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.001
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.000	0.000	0.003	0.002
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.001	0.000	0.000	0.001	0.002	0.000	0.000	0.002	0.006
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.002	0.003
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.007
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.002	0.000	0.000	0.000	0.006
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.005
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.001	0.006
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.006
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.006
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.002
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.000	0.001	0.001	0.001	0.000	0.000	0.002
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.006
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.003
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001	0.000	0.000	0.005
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.002
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.002
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	0.002
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.007
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.005
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.002
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-88: TOTAL ARSENIC MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.010	0.000	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.003	0.000	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.005	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.003	0.008	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.000	0.001	0.004	0.007	0.008	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.000	0.000	0.002	0.009	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.007	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.005	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.001	0.001	0.002	0.006	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.002	0.010	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.006	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.005	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.003	0.010	0.013	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.011	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000	0.001	0.000	0.004	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.003	0.004	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.007	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.006	0.006	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.003	0.004	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.005	0.004	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.003	0.006	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.005	0.004	0.001	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.005	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.002	0.000	0.000	0.006	0.007	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.008	0.005	0.005	0.027	0.000	0.023
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.006	0.004	0.018	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.010	0.005	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.017	0.006	0.007	0.000	0.000	0.018
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.010	0.005	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.003	0.007	0.005	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.001	0.000	0.000	0.004	0.006	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.009	0.005	0.005	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.018
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.001	0.000	0.000	0.000	0.003	0.005	0.000	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.005	0.010	0.000	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.001	0.000	0.002	0.006	0.000	0.000	0.017	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.001	0.000	0.004	0.005	0.009	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.005	0.000	0.022	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.008	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.000	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.003	0.007	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.001	0.000	0.000	0.002	0.002	0.007	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.000	0.001	0.008	0.003	0.012	0.000	0.018	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.001	0.000	0.001	0.005	0.008	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.004	0.003	0.000	0.000	0.020	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.002	0.000	0.000	0.002	0.006	0.008	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.003	0.003	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.001	0.000	0.004	0.002	0.000	0.000	0.025	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.002	0.001	0.000	0.003	0.004	0.004	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-89: TOTAL BARIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.089	0.083	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.062	0.056	0.051	0.069	0.048	0.054	0.072	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.052	0.052	0.055	0.048	0.051	0.051	0.052	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.041	0.045	0.042	0.040	0.045	0.045	0.054	0.041	0.039	0.040	0.039
104 Glenview Road, North Branch Chicago River	0.034	0.037	0.032	0.034	0.038	0.035	0.039	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.048	0.043	0.041	0.046	0.045	0.047	0.053	0.042	0.040	0.044	0.044
105 Frontage Road, Skokie River	0.032	0.030	0.030	0.033	0.029	0.032	0.036	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.038	0.040	0.041	0.040	0.039	0.040	0.047	0.033	0.032	0.034	0.036
96 Albany Avenue, North Branch Chicago River	0.039	0.041	0.040	0.037	0.039	0.043	0.044	0.029	ND	ND	ND
35 Central Street, North Shore Channel	0.023	0.022	0.025	0.023	0.024	0.030	0.026	0.023	0.023	0.022	0.024
102 Oakton Street, North Shore Channel	0.025	0.023	0.025	0.023	0.026	0.025	0.027	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.024	0.021	0.022	0.023	0.020	0.024	0.027	0.017	0.020	0.021	0.022
101 Foster Avenue, North Shore Channel	0.024	0.021	0.022	0.023	0.021	0.024	0.024	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.027	0.025	0.024	0.026	0.024	0.028	0.031	0.021	0.022	0.040	0.023
73 Diversey Parkway, North Branch Chicago River	0.026	0.025	0.024	0.026	0.027	0.029	0.033	0.020	0.048	0.023	0.023
46 Grand Avenue, North Branch Chicago River	0.028	0.026	0.025	0.028	0.024	0.028	0.031	0.021	0.021	0.023	0.025
74 Lake Shore Drive, Chicago River	0.024	0.022	0.023	0.025	0.023	0.025	0.026	0.023	0.020	0.021	0.022
100 Wells Street, Chicago River	0.024	0.023	0.023	0.024	0.023	0.027	0.028	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.027	0.025	0.024	0.024	0.023	0.027	0.031	0.022	0.024	0.024	0.023
108 Loomis Street, South Branch Chicago River	0.028	0.026	0.025	0.025	0.024	0.027	0.029	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.025	0.025	0.025	0.025	0.023	0.029	0.036	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.028	0.027	0.025	0.025	0.025	ND	ND	0.019	0.024	0.025	0.023
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.029	0.033	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.027	0.026	0.025	0.026	0.024	0.029	0.031	0.023	0.023	0.023	0.023
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.024	0.021	0.020	0.020	0.019	0.023	0.026	0.018	0.019	0.020	0.022
42 Route 83, Chicago Sanitary & Ship Canal	0.022	0.020	0.020	0.020	0.021	0.023	0.025	0.017	0.018	0.019	0.024
48 Stephen Street, Chicago Sanitary & Ship Canal	0.025	0.023	0.023	0.023	0.023	0.024	0.027	0.020	0.018	0.020	0.023
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.027	0.032	0.036	0.039
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.023	0.023	0.023	0.024	0.022	0.026	0.028	0.019	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.023	0.022	0.022	0.023	0.024	0.026	0.030	0.022	0.024	0.019	0.022
50 Burnham Avenue, Wolf Lake	0.036	0.028	0.033	0.032	0.028	0.029	0.031	0.024	0.024	0.028	0.028
55 130th Street, Calumet River	0.032	0.031	0.030	0.030	0.031	0.035	0.040	0.028	0.029	0.028	0.028
86 Burnham Avenue, Grand Calumet River	0.034	0.029	0.043	0.027	0.031	0.029	0.030	0.025	0.026	0.027	0.028
56 Indiana Avenue, Little Calumet River	0.033	0.031	0.030	0.030	0.030	0.037	0.035	0.029	0.032	0.028	0.032
76 Halsted Street, Little Calumet River	0.024	0.022	0.022	0.022	0.020	0.024	0.030	0.015	0.020	0.018	0.023
52 Wentworth Avenue, Little Calumet River	0.039	0.043	0.037	0.042	0.043	0.045	0.047	0.040	0.037	0.045	0.045
54 Joe Orr Road, Thorn Creek	0.028	0.031	0.042	0.034	0.030	0.030	0.032	0.019	0.023	0.025	0.025
97 170th Street, Thorn Creek	0.035	0.041	0.042	0.042	0.038	0.041	0.043	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.036	0.042	0.040	0.043	0.039	0.040	0.044	0.034	0.033	0.036	0.037
58 Ashland Avenue, Calumet Sag Channel	0.026	0.024	0.026	0.025	0.029	0.029	0.030	0.022	0.023	0.021	0.032
59 Cicero Avenue, Calumet Sag Channel	0.027	0.028	0.024	0.027	0.026	0.028	0.035	0.021	0.023	0.024	0.027
43 Route 83, Calumet Sag Channel	0.027	0.028	0.025	0.026	0.028	0.030	0.034	0.024	0.024	0.026	0.025
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.078	0.095	0.112	0.102	0.079	0.071	0.067	0.053	0.102	0.063	0.071
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.047	ND	0.072	0.044	0.045	0.049	0.056
89 Walnut Lane, West Branch DuPage River	0.029	0.030	0.026	0.028	0.028	0.031	0.035	0.025	0.025	0.023	0.022
64 Lake Street, West Branch DuPage River	0.031	0.035	0.033	0.035	0.033	0.037	0.042	0.035	0.032	0.032	0.035
79 Higgins Road, Salt Creek	0.045	0.044	0.053	0.052	0.045	0.048	0.061	0.040	0.042	0.044	0.045
80 Arlington Heights Road, Salt Creek	0.027	0.033	0.033	0.030	0.031	0.030	0.035	0.026	0.023	0.023	0.029
18 Devon Avenue, Salt Creek	0.028	0.033	0.031	0.029	0.030	0.031	0.035	0.028	0.026	0.023	0.035
24 Wolf Road, Salt Creek	0.034	0.035	0.033	0.034	0.031	0.036	0.042	0.034	0.030	0.035	0.034
109 Brookfield Avenue, Salt Creek	0.034	0.036	0.033	0.036	0.034	0.028	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.046	0.048	0.033	0.030	0.033	0.034
77 Elmhurst Road, Higgins Creek	0.043	0.056	0.056	0.067	0.050	0.060	0.072	0.047	0.054	0.060	0.054
78 Wille Road, Higgins Creek	0.024	0.024	0.020	0.024	0.022	0.030	0.022	0.023	0.022	0.028	0.027
12 Lake-Cook Road, Buffalo Creek	0.044	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.040	0.045	0.038	0.038	0.038	0.044	0.044	0.036	0.060	0.037	0.036
17 Oakton Street, Des Plaines River	0.040	0.046	0.040	0.040	0.041	0.044	0.047	0.039	0.035	0.040	0.038
19 Belmont Avenue, Des Plaines River	0.038	0.043	0.037	0.038	0.037	0.040	0.045	0.034	0.032	0.037	0.038
20 Roosevelt Road, Des Plaines River	0.038	0.044	0.037	0.038	0.035	0.042	0.043	0.034	0.033	0.038	0.038
22 Ogden Avenue, Des Plaines River	0.037	0.042	0.036	0.038	0.036	0.040	0.045	0.034	0.032	0.035	0.039
23 Willow Springs Road, Des Plaines River	0.036	0.039	0.036	0.037	0.034	0.038	0.045	0.031	0.060	0.036	0.038
29 Stephen Street, Des Plaines River	0.037	0.041	0.035	0.037	0.036	0.040	0.045	0.034	0.059	0.038	0.038
91 Material Service Road, Des Plaines River	0.037	0.041	0.035	0.038	0.036	0.039	0.044	0.032	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.048	0.054	0.053	0.056	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-90: TOTAL BORON MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.171	0.208	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.135	0.129	0.178	0.203	0.147	0.139	0.186	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.149	0.145	0.191	0.139	0.137	0.159	0.151	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.121	0.118	0.176	0.170	0.113	0.122	0.104	0.134	0.132	0.113	0.133
104 Glenview Road, North Branch Chicago River	0.142	0.142	0.182	0.155	0.138	0.167	0.156	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.120	0.135	0.161	0.129	0.137	0.120	0.122	0.161	0.125	0.155	0.188
105 Frontage Road, Skokie River	0.149	0.161	0.188	0.172	0.193	0.186	0.166	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.139	0.143	0.192	0.153	0.176	0.172	0.132	0.194	0.178	0.167	0.227
96 Albany Avenue, North Branch Chicago River	0.138	0.151	0.185	0.150	0.164	0.169	0.157	0.243	ND	ND	ND
35 Central Street, North Shore Channel	0.036	0.037	0.039	0.037	0.050	0.052	0.030	0.050	0.015	0.039	0.064
102 Oakton Street, North Shore Channel	0.087	0.117	0.093	0.076	0.091	0.118	0.058	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.185	0.193	0.180	0.172	0.190	0.185	0.211	0.233	0.208	0.215	0.274
101 Foster Avenue, North Shore Channel	0.182	0.192	0.177	0.174	0.176	0.176	0.201	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.160	0.173	0.168	0.161	0.166	0.160	0.183	0.201	0.188	0.180	0.243
73 Diversey Parkway, North Branch Chicago River	0.166	0.166	0.160	0.162	0.175	0.161	0.173	0.205	0.193	0.175	0.227
46 Grand Avenue, North Branch Chicago River	0.154	0.163	0.172	0.160	0.162	0.161	0.178	0.214	0.189	0.181	0.223
74 Lake Shore Drive, Chicago River	0.092	0.067	0.061	0.073	0.057	0.055	0.082	0.091	0.025	0.047	0.055
100 Wells Street, Chicago River	0.079	0.081	0.082	0.092	0.103	0.080	0.091	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.107	0.128	0.132	0.144	0.149	0.140	0.135	0.178	0.156	0.120	0.155
108 Loomis Street, South Branch Chicago River	0.109	0.131	0.135	0.143	0.144	0.136	0.128	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.111	0.117	0.134	0.139	0.143	0.135	0.148	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.106	0.130	0.133	0.141	0.145	ND	ND	0.162	0.141	0.119	0.193
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.136	0.129	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.117	0.124	0.133	0.144	0.145	0.145	0.143	0.174	0.133	0.113	0.188
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.168	0.183	0.176	0.207	0.192	0.184	0.190	0.200	0.175	0.173	0.243
42 Route 83, Chicago Sanitary & Ship Canal	0.208	0.223	0.219	0.261	0.226	0.232	0.206	0.219	0.183	0.188	0.262
48 Stephen Street, Chicago Sanitary & Ship Canal	0.192	0.208	0.216	0.221	0.217	0.227	0.219	0.247	0.197	0.185	0.280
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	0.196	0.218	0.223	0.206	0.203	0.206	0.209	0.224	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.046	0.049	0.042	0.046	0.035	0.039	0.045	0.033	0.002	0.053	0.092
50 Burnham Avenue, Wolf Lake	0.171	0.115	0.147	0.144	0.105	0.104	0.100	0.069	0.035	0.096	0.153
55 130th Street, Calumet River	0.146	0.107	0.113	0.111	0.084	0.120	0.146	0.084	0.061	0.091	0.150
86 Burnham Avenue, Grand Calumet River	0.583	0.601	0.287	0.429	0.430	0.383	0.370	0.371	0.386	0.338	0.388
56 Indiana Avenue, Little Calumet River	0.165	0.137	0.116	0.127	0.128	0.161	0.152	0.159	0.123	0.168	0.214
76 Halsted Street, Little Calumet River	0.194	0.224	0.205	0.189	0.187	0.201	0.228	0.286	0.244	0.253	0.293
52 Wentworth Avenue, Little Calumet River	0.231	0.240	0.224	0.242	0.267	0.321	0.209	0.276	0.235	0.238	0.345
54 Joe Orr Road, Thorn Creek	0.313	0.404	0.269	0.320	0.252	0.353	0.351	0.410	0.353	0.357	0.428
97 170th Street, Thorn Creek	0.222	0.297	0.251	0.269	0.279	0.332	0.254	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.202	0.258	0.232	0.223	0.265	0.270	0.212	0.321	0.267	0.259	0.421
58 Ashland Avenue, Calumet Sag Channel	0.173	0.230	0.206	0.194	0.210	0.226	0.232	0.280	0.227	0.260	0.332
59 Cicero Avenue, Calumet Sag Channel	0.165	0.224	0.199	0.193	0.192	0.207	0.228	0.277	0.230	0.257	0.298
43 Route 83, Calumet Sag Channel	0.168	0.204	0.207	0.187	0.182	0.194	0.215	0.250	0.235	0.243	0.298
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.058	0.061	0.071	0.056	0.056	0.056	0.063	0.059	0.012	0.058	0.143
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.040	ND	0.083	0.069	0.128	0.180	0.223
89 Walnut Lane, West Branch DuPage River	0.248	0.247	0.278	0.274	0.264	0.285	0.296	0.285	0.311	0.328	0.393
64 Lake Street, West Branch DuPage River	0.187	0.190	0.238	0.225	0.228	0.224	0.243	0.203	0.238	0.266	0.309
79 Higgins Road, Salt Creek	0.085	0.091	0.098	0.089	0.073	0.100	0.099	0.086	0.071	0.092	0.169
80 Arlington Heights Road, Salt Creek	0.198	0.191	0.205	0.197	0.191	0.207	0.223	0.207	0.225	0.233	0.278
18 Devon Avenue, Salt Creek	0.196	0.196	0.207	0.189	0.187	0.192	0.211	0.195	0.213	0.218	0.257
24 Wolf Road, Salt Creek	0.182	0.188	0.233	0.193	0.177	0.227	0.184	0.182	0.203	0.195	0.273
109 Brookfield Avenue, Salt Creek	0.183	0.210	0.262	0.195	0.198	0.247	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.179	0.196	0.176	0.200	0.233	0.306
77 Elmhurst Road, Higgins Creek	0.089	0.083	0.081	0.084	0.063	0.074	0.116	0.083	0.124	0.148	0.202
78 Wille Road, Higgins Creek	0.260	0.289	0.366	0.303	0.282	0.335	0.377	0.367	0.376	0.373	0.436
12 Lake-Cook Road, Buffalo Creek	0.088	0.107	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.155	0.181	0.221	0.191	0.192	0.189	0.167	0.166	0.166	0.176	0.250
17 Oakton Street, Des Plaines River	0.137	0.155	0.215	0.167	0.186	0.191	0.158	0.146	0.166	0.171	0.235
19 Belmont Avenue, Des Plaines River	0.154	0.170	0.236	0.181	0.209	0.207	0.178	0.176	0.215	0.208	0.271
20 Roosevelt Road, Des Plaines River	0.151	0.172	0.237	0.182	0.207	0.218	0.169	0.181	0.205	0.213	0.285
22 Ogden Avenue, Des Plaines River	0.155	0.183	0.236	0.194	0.211	0.214	0.169	0.178	0.201	0.213	0.321
23 Willow Springs Road, Des Plaines River	0.161	0.185	0.243	0.182	0.176	0.219	0.172	0.185	0.196	0.208	0.317
29 Stephen Street, Des Plaines River	0.167	0.192	0.243	0.177	0.195	0.204	0.172	0.182	0.185	0.201	0.324
91 Material Service Road, Des Plaines River	0.173	0.198	0.249	0.179	0.217	0.213	0.165	0.215	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.075	0.079	0.078	0.125	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-91: TOTAL CADMIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.002	0.000	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.002	0.001	0.001	0.001	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.001	0.000	0.001	0.001	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.000	0.000	0.000	0.001	0.004	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	0.001	0.001	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.002	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000
74 Lake Shore Drive, Chicago River	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000
100 Wells Street, Chicago River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.001	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	ND	ND	0.000	0.000	0.002	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.001	0.000	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.000
50 Burnham Avenue, Wolf Lake	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000
55 130th Street, Calumet River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.001	0.001	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.001	0.000	0.001	0.000	0.001	0.001	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.001	0.000
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.001	0.000	0.001	0.001	0.001
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.004	0.001	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.003	0.000	0.002	0.001	0.000	0.000	0.002	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.003	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.001
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-92: TOTAL COPPER MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)		Annual Means (mg/L)										
		07	06	05	04	03	02	01	00	99	98	97
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.030	0.035	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.006	0.012	0.028	0.025	0.020	0.023	0.027	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.002	0.004	0.017	0.013	0.015	0.024	0.021	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.005	0.021	0.012	0.013	0.022	0.022	0.011	0.003	0.007	0.007
104	Glenview Road, North Branch Chicago River	0.002	0.005	0.016	0.013	0.013	0.020	0.018	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.006	0.017	0.012	0.011	0.019	0.020	0.011	0.004	0.007	0.005
105	Frontage Road, Skokie River	0.002	0.003	0.018	0.014	0.018	0.020	0.017	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.002	0.004	0.018	0.013	0.015	0.021	0.020	0.011	0.003	0.008	0.008
96	Albany Avenue, North Branch Chicago River	0.002	0.004	0.017	0.016	0.016	0.022	0.021	0.024	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.001	0.014	0.011	0.012	0.023	0.016	0.007	0.001	0.004	0.004
102	Oakton Street, North Shore Channel	0.001	0.003	0.013	0.012	0.014	0.021	0.016	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.002	0.004	0.017	0.012	0.015	0.024	0.018	0.012	0.003	0.004	0.004
101	Foster Avenue, North Shore Channel	0.003	0.003	0.016	0.014	0.013	0.023	0.014	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.002	0.003	0.016	0.013	0.015	0.023	0.019	0.014	0.002	0.005	0.003
73	Diversey Parkway, North Branch Chicago River	0.002	0.003	0.017	0.011	0.015	0.022	0.021	0.015	0.003	0.008	0.006
46	Grand Avenue, North Branch Chicago River	0.003	0.004	0.017	0.015	0.017	0.022	0.017	0.012	0.006	0.006	0.006
74	Lake Shore Drive, Chicago River	0.003	0.002	0.015	0.013	0.014	0.013	0.015	0.011	0.002	0.005	0.005
100	Wells Street, Chicago River	0.004	0.004	0.016	0.015	0.015	0.019	0.015	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.005	0.004	0.017	0.015	0.015	0.020	0.016	0.010	0.001	0.005	0.004
108	Loomis Street, South Branch Chicago River	0.007	0.005	0.018	0.018	0.016	0.020	0.017	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.003	0.004	0.015	0.014	0.016	0.017	0.015	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.005	0.006	0.018	0.015	0.017	ND	ND	0.008	0.002	0.005	0.006
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.021	0.027	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.005	0.019	0.015	0.015	0.020	0.020	0.012	0.002	0.004	0.007
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.013	0.012	0.013	0.016	0.014	0.012	0.001	0.004	0.003
42	Route 83, Chicago Sanitary & Ship Canal	0.005	0.002	0.015	0.016	0.014	0.017	0.017	0.009	0.001	0.004	0.004
48	Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.002	0.015	0.020	0.015	0.017	0.015	0.011	0.001	0.003	0.003
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.027	0.049	0.110	0.051
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.003	0.016	0.013	0.014	0.020	0.016	0.009	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.004	0.013	0.010	0.011	0.015	0.015	0.009	0.007	0.008	0.005
50	Burnham Avenue, Wolf Lake	0.000	0.002	0.014	0.011	0.013	0.013	0.018	0.007	0.001	0.005	0.004
55	130th Street, Calumet River	0.001	0.006	0.013	0.013	0.012	0.015	0.017	0.008	0.001	0.006	0.005
86	Burnham Avenue, Grand Calumet River	0.004	0.006	0.038	0.016	0.017	0.020	0.022	0.023	0.013	0.018	0.013
56	Indiana Avenue, Little Calumet River	0.005	0.004	0.015	0.013	0.013	0.020	0.014	0.010	0.003	0.007	0.005
76	Halsted Street, Little Calumet River	0.001	0.002	0.015	0.010	0.010	0.016	0.017	0.010	0.000	0.004	0.003
52	Wentworth Avenue, Little Calumet River	0.002	0.003	0.015	0.015	0.012	0.019	0.019	0.016	0.004	0.009	0.009
54	Joe Orr Road, Thorn Creek	0.000	0.001	0.020	0.014	0.008	0.013	0.017	0.010	0.001	0.006	0.005
97	170th Street, Thorn Creek	0.003	0.002	0.017	0.016	0.014	0.016	0.018	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.004	0.002	0.019	0.014	0.010	0.017	0.021	0.013	0.003	0.008	0.008
58	Ashland Avenue, Calumet Sag Channel	0.001	0.002	0.020	0.011	0.011	0.017	0.017	0.011	0.001	0.006	0.005
59	Cicero Avenue, Calumet Sag Channel	0.001	0.002	0.014	0.011	0.011	0.016	0.018	0.008	0.002	0.008	0.005
43	Route 83, Calumet Sag Channel	0.001	0.002	0.014	0.012	0.013	0.018	0.019	0.009	0.001	0.008	0.008
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.001	0.015	0.009	0.012	0.016	0.014	0.006	0.000	0.005	0.004
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.017	ND	0.019	0.007	0.002	0.005	0.011
89	Walnut Lane, West Branch DuPage River	0.006	0.007	0.021	0.018	0.018	0.023	0.020	0.011	0.006	0.008	0.010
64	Lake Street, West Branch DuPage River	0.005	0.006	0.022	0.016	0.019	0.021	0.019	0.008	0.002	0.010	0.008
79	Higgins Road, Salt Creek	0.002	0.001	0.017	0.011	0.014	0.021	0.014	0.008	0.000	0.003	0.005
80	Arlington Heights Road, Salt Creek	0.002	0.003	0.018	0.013	0.017	0.018	0.021	0.011	0.003	0.005	0.006
18	Devon Avenue, Salt Creek	0.002	0.003	0.021	0.012	0.016	0.019	0.016	0.011	0.004	0.004	0.007
24	Wolf Road, Salt Creek	0.005	0.006	0.020	0.013	0.017	0.020	0.018	0.011	0.004	0.005	0.006
109	Brookfield Avenue, Salt Creek	0.005	0.007	0.020	0.014	0.022	0.024	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	0.016	0.022	0.011	0.005	0.008	0.006	0.006
77	Elmhurst Road, Higgins Creek	0.005	0.006	0.016	0.017	0.018	0.019	0.017	0.009	0.003	0.007	0.005
78	Wille Road, Higgins Creek	0.001	0.001	0.017	0.012	0.014	0.018	0.016	0.011	0.000	0.013	0.004
12	Lake-Cook Road, Buffalo Creek	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.001	0.002	0.017	0.013	0.016	0.019	0.015	0.010	0.001	0.006	0.007
17	Oakton Street, Des Plaines River	0.002	0.002	0.016	0.012	0.015	0.018	0.014	0.010	0.001	0.007	0.002
19	Belmont Avenue, Des Plaines River	0.002	0.003	0.019	0.014	0.016	0.021	0.017	0.012	0.001	0.008	0.005
20	Roosevelt Road, Des Plaines River	0.003	0.003	0.017	0.011	0.017	0.022	0.015	0.010	0.002	0.007	0.005
22	Ogden Avenue, Des Plaines River	0.004	0.004	0.020	0.012	0.017	0.020	0.019	0.012	0.001	0.006	0.009
23	Willow Springs Road, Des Plaines River	0.003	0.004	0.021	0.012	0.015	0.023	0.017	0.010	0.001	0.005	0.005
29	Stephen Street, Des Plaines River	0.003	0.004	0.019	0.011	0.016	0.022	0.017	0.011	0.002	0.005	0.004
91	Material Service Road, Des Plaines River	0.003	0.003	0.017	0.014	0.015	0.019	0.019	0.011	ND	ND	ND
110	Springinsguth Road, West Branch DuPage River	0.002	0.001	0.017	0.012	ND	ND	ND	ND	ND	ND	ND

ND = No Data



TABLE AII-93: TOTAL CHROMIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.005	0.009	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.004	0.000	0.001	0.003	0.006	0.005	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.002	0.000	0.000	0.001	0.007	0.006	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.003	0.000	0.000	0.001	0.006	0.004	0.001	0.001	0.005	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.001	0.003	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.003	0.000	0.000	0.000	0.001	0.005	0.002	0.001	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.001	0.001	0.000	0.001	0.002	0.003	0.001	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.002	0.000	0.000	0.001	0.007	0.003	0.000	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.002	0.002	0.001	0.001	0.001	0.001	0.004	0.001	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.001	0.002	0.000	0.000	0.008	0.003	0.000	0.001	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.001	0.001	0.000	0.000	0.002	0.003	0.004	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.000	0.000	0.000	0.005	0.002	0.003	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.001	0.001	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.000	0.000	0.001	0.006	0.003	0.001	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.000	0.000	0.002	0.004	0.004	0.002	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.003	0.002	0.000	0.001	0.003	0.005	0.002	0.002	0.000	0.000	0.000	0.002
74 Lake Shore Drive, Chicago River	0.002	0.001	0.000	0.000	0.001	0.003	0.002	0.002	0.000	0.000	0.000	0.001
100 Wells Street, Chicago River	0.003	0.001	0.000	0.000	0.001	0.004	0.005	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.004	0.001	0.000	0.001	0.002	0.005	0.003	0.003	0.002	0.003	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.004	0.002	0.000	0.001	0.002	0.005	0.003	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.001	0.000	0.000	0.002	0.008	0.000	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.003	0.002	0.000	0.001	0.003	ND	ND	0.002	0.002	0.002	0.001	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.005	0.004	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.002	0.001	0.001	0.003	0.006	0.003	0.005	0.001	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.002	0.000	0.001	0.003	0.004	0.005	0.006	0.001	0.001	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.004	0.002	0.000	0.003	0.004	0.005	0.002	0.007	0.001	0.000	0.001	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.002	0.002	0.002	0.004	0.004	0.005	0.006	0.001	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.006	0.003	0.002	0.002
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.002	0.001	0.002	0.003	0.007	0.004	0.002	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.002	0.001	0.000	0.000	0.000	0.002	0.002	0.003	0.002	0.002	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.001	0.000	0.000	0.000	0.001	0.004	0.002	0.001	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.001	0.002	0.000	0.000	0.000	0.003	0.000	0.002	0.001	0.000	0.001	0.001
86 Burnham Avenue, Grand Calumet River	0.003	0.003	0.009	0.002	0.004	0.003	0.006	0.006	0.002	0.005	0.003	0.003
56 Indiana Avenue, Little Calumet River	0.003	0.002	0.000	0.000	0.001	0.006	0.002	0.003	0.001	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.002	0.002	0.000	0.001	0.001	0.001	0.004	0.003	0.001	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.002	0.002	0.001	0.001	0.001	0.007	0.003	0.003	0.001	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.004	0.000	0.003	0.005	0.002	0.003	0.001	0.000	0.002	0.002
97 170th Street, Thorn Creek	0.002	0.002	0.001	0.002	0.003	0.005	0.008	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.002	0.002	0.002	0.002	0.007	0.003	0.004	0.001	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.003	0.001	0.000	0.001	0.002	0.006	0.003	0.003	0.001	0.004	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.002	0.002	0.000	0.002	0.003	0.005	0.005	0.004	0.002	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.002	0.002	0.000	0.000	0.004	0.005	0.004	0.004	0.002	0.000	0.003	0.003
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.001	0.001	0.000	0.000	0.001	0.003	0.005	0.002	0.000	0.000	0.002	0.002
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.009	0.001	0.002	0.003	0.001	0.001
89 Walnut Lane, West Branch DuPage River	0.001	0.001	0.000	0.000	0.001	0.002	0.004	0.001	0.000	0.000	0.002	0.002
64 Lake Street, West Branch DuPage River	0.002	0.002	0.000	0.000	0.001	0.003	0.005	0.001	0.000	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.002	0.002	0.001	0.000	0.003	0.009	0.005	0.001	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.001	0.001	0.000	0.000	0.000	0.003	0.005	0.001	0.001	0.002	0.000	0.000
18 Devon Avenue, Salt Creek	0.001	0.001	0.001	0.000	0.001	0.001	0.002	0.002	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.002	0.003	0.001	0.000	0.004	0.007	0.006	0.004	0.000	0.000	0.001	0.001
109 Brookfield Avenue, Salt Creek	0.002	0.007	0.003	0.003	0.003	0.007	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.006	0.003	0.001	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.003	0.003	0.000	0.000	0.003	0.004	0.001	0.002	0.000	0.003	0.001	0.001
78 Wille Road, Higgins Creek	0.001	0.001	0.000	0.001	0.002	0.004	0.004	0.003	0.000	0.004	0.001	0.001
12 Lake-Cook Road, Buffalo Creek	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.001	0.000	0.001	0.001	0.003	0.001	0.000	0.000	0.001	0.001
17 Oakton Street, Des Plaines River	0.001	0.001	0.000	0.000	0.003	0.004	0.005	0.003	0.000	0.001	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.002	0.002	0.013	0.000	0.031	0.002	0.005	0.003	0.000	0.001	0.001	0.001
20 Roosevelt Road, Des Plaines River	0.002	0.002	0.004	0.000	0.018	0.004	0.005	0.003	0.001	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.002	0.003	0.002	0.002	0.003	0.004	0.005	0.005	0.000	0.001	0.002	0.002
23 Willow Springs Road, Des Plaines River	0.002	0.003	0.005	0.001	0.004	0.002	0.005	0.003	0.000	0.000	0.001	0.001
29 Stephen Street, Des Plaines River	0.002	0.004	0.003	0.001	0.003	0.001	0.005	0.005	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.002	0.002	0.002	0.001	0.003	0.004	0.005	0.002	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.001	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-94: TOTAL HEXVALENT CHROMIUM MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.500	1.800	3.500	0.000	2.000	0.000	0.000	0.000	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.727	0.500	1.400	0.500	0.375	0.000	0.000	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.182	1.300	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.364	0.667	1.500	0.167	0.000	0.000	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.600	0.333	0.909	0.000	0.556	0.000	0.000	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.364	0.750	1.250	0.000	0.500	0.000	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.545	1.000	1.909	0.167	0.455	0.000	0.000	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.636	0.333	1.273	0.364	0.400	0.000	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.333	0.889	1.750	0.000	0.444	0.000	0.000	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.583	0.333	1.750	0.167	0.300	0.000	0.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.083	0.500	1.333	0.583	0.000	0.000	0.000	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.583	0.667	1.846	0.417	0.500	0.000	0.000	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.167	0.667	1.833	0.333	0.500	0.000	0.000	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.333	0.750	1.583	0.750	0.667	0.000	0.000	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.545	0.333	1.667	0.667	0.667	0.000	0.000	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.909	0.364	0.400	0.222	0.400	0.000	0.000	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	1.000	0.417	0.417	0.333	0.500	0.167	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.545	0.750	0.667	0.417	0.364	0.000	0.000	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.167	0.667	0.500	0.333	0.500	0.167	0.000	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.364	0.286	0.909	0.417	0.500	0.000	0.000	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.583	0.500	0.833	0.333	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.083	0.583	0.750	0.333	0.250	0.000	0.000	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.333	0.500	0.667	0.333	0.667	0.000	0.000	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.182	0.667	0.818	0.333	0.167	0.000	0.000	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.636	0.667	0.909	0.333	0.167	0.000	0.000	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.540	0.627	1.442	0.404	0.442	0.000	0.000	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.400	0.364	0.818	0.400	0.583	0.000	0.000	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.545	0.636	1.167	0.167	0.833	0.000	0.000	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.400	0.818	1.091	0.182	1.000	0.000	0.000	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.200	0.818	1.700	0.444	0.700	0.000	0.000	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.500	0.818	1.000	0.444	0.000	0.000	0.000	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.909	0.818	1.583	0.000	0.545	0.000	0.000	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.727	0.727	1.364	0.000	1.200	0.000	0.000	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.200	0.667	2.500	0.000	0.667	0.000	0.000	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	1.000	0.818	1.636	0.000	1.200	0.000	0.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.364	1.091	1.545	0.200	0.300	0.000	0.000	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.727	0.909	1.500	0.167	0.583	0.000	0.000	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.273	0.727	1.583	0.167	1.273	0.000	0.000	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.273	1.000	1.273	0.000	1.273	0.000	0.000	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	0.417	1.455	1.091	0.700	0.000	0.000	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.000	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.417	0.417	1.250	1.091	0.364	0.000	0.000	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.750	0.833	1.583	1.167	0.750	0.000	0.000	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.200	0.778	1.778	1.091	0.667	0.000	0.000	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.167	0.167	2.250	1.000	0.500	0.000	0.000	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.417	0.333	1.667	1.167	0.333	0.000	0.000	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.182	0.417	2.333	0.636	0.583	0.000	0.000	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.182	3.500	1.917	2.364	0.900	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.400	0.714	1.000	0.667	0.200	0.000	0.000	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.167	0.500	1.333	0.364	0.750	0.000	0.000	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.333	0.778	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.833	0.000	1.583	0.909	0.667	0.000	0.000	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.182	0.167	1.417	1.000	0.500	0.000	0.000	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.583	10.333	1.000	0.750	0.000	0.000	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.364	0.417	3.833	0.636	1.143	0.000	0.000	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.364	0.667	1.500	0.727	0.000	0.000	0.000	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.182	0.833	3.083	1.273	0.700	0.000	0.000	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.750	1.500	0.727	0.909	0.000	0.000	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.273	0.750	1.417	0.545	0.667	0.000	0.000	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.600	0.545	1.727	1.300	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-95: TOTAL IRON MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	1.795	3.350	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.138	2.559	1.173	1.846	1.601	0.913	1.349	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.573	1.142	0.864	0.698	0.823	1.037	0.953	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.853	1.924	0.817	0.917	0.922	0.934	1.443	0.634	0.734	0.526	0.710
104 Glenview Road, North Branch Chicago River	0.617	1.421	0.598	0.705	0.847	0.705	0.707	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.846	1.756	0.867	0.922	0.683	0.831	1.040	0.565	0.652	0.575	0.492
105 Frontage Road, Skokie River	0.584	0.591	0.476	0.856	0.534	0.580	0.528	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.693	1.091	0.697	0.703	0.744	0.889	0.957	0.502	0.521	0.488	0.431
96 Albany Avenue, North Branch Chicago River	0.595	0.917	0.646	0.722	0.701	0.889	0.666	0.320	ND	ND	ND
35 Central Street, North Shore Channel	0.209	0.322	0.329	0.297	0.256	0.355	0.357	0.268	0.183	0.180	0.181
102 Oakton Street, North Shore Channel	0.388	0.394	0.358	0.393	0.522	0.466	0.560	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.158	0.180	0.209	0.241	0.171	0.310	0.284	0.178	0.136	0.107	0.101
101 Foster Avenue, North Shore Channel	0.185	0.214	0.306	0.320	0.236	0.347	0.295	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.322	0.361	0.306	0.385	0.355	0.490	0.450	0.248	0.210	0.178	0.152
73 Diversey Parkway, North Branch Chicago River	0.373	0.401	0.319	0.384	0.509	0.560	0.538	0.305	0.273	0.248	0.208
46 Grand Avenue, North Branch Chicago River	0.552	0.506	0.386	0.637	0.466	0.594	0.531	0.328	0.283	0.223	0.231
74 Lake Shore Drive, Chicago River	0.161	0.099	0.127	0.136	0.158	0.199	0.219	0.192	0.102	0.098	0.133
100 Wells Street, Chicago River	0.172	0.178	0.171	0.180	0.222	0.248	0.347	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.527	0.294	0.326	0.394	0.389	0.439	0.550	0.386	0.238	0.199	0.165
108 Loomis Street, South Branch Chicago River	0.543	0.397	0.327	0.382	0.392	0.417	0.481	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.379	0.384	0.393	0.462	0.455	0.599	0.822	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.495	0.465	0.360	0.488	0.446	ND	ND	0.258	0.269	0.212	0.223
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.507	0.717	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.509	0.494	0.401	0.484	0.493	0.545	0.621	0.379	0.313	0.225	0.243
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.418	0.295	0.256	0.270	0.261	0.330	0.331	0.262	0.210	0.141	0.153
42 Route 83, Chicago Sanitary & Ship Canal	0.425	0.247	0.247	0.293	0.318	0.336	0.324	0.182	0.170	0.132	0.224
48 Stephen Street, Chicago Sanitary & Ship Canal	0.641	0.511	0.473	0.509	0.516	0.429	0.466	0.316	0.222	0.261	0.277
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.616	1.125	1.165	1.386
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.454	0.477	0.443	0.445	0.434	0.505	0.493	0.320	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.355	0.308	0.202	0.293	0.249	0.268	0.429	0.317	0.242	0.213	0.160
50 Burnham Avenue, Wolf Lake	0.165	0.065	0.148	0.100	0.110	0.134	0.203	0.123	0.118	0.134	0.081
55 130th Street, Calumet River	0.339	0.479	0.257	0.244	0.330	0.345	0.437	0.365	0.191	0.203	0.195
86 Burnham Avenue, Grand Calumet River	1.567	1.217	2.100	1.194	1.315	1.335	1.111	1.126	0.766	0.963	0.712
56 Indiana Avenue, Little Calumet River	0.701	0.587	0.684	0.576	0.791	1.014	0.633	0.470	0.395	0.334	0.412
76 Halsted Street, Little Calumet River	0.390	0.380	0.321	0.382	0.330	0.449	0.511	0.329	0.251	0.294	0.347
52 Wentworth Avenue, Little Calumet River	1.842	1.676	1.388	1.469	1.350	1.973	1.504	1.156	0.927	1.442	0.983
54 Joe Orr Road, Thorn Creek	0.489	0.317	2.309	0.681	1.481	0.445	0.594	0.433	0.262	0.447	0.368
97 170th Street, Thorn Creek	1.459	1.217	1.516	1.468	1.088	0.867	1.623	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.423	1.126	1.514	1.678	1.084	0.980	1.435	0.642	0.640	0.853	0.669
58 Ashland Avenue, Calumet Sag Channel	0.757	0.461	0.548	0.543	0.787	0.616	0.639	0.439	0.360	0.353	0.718
59 Cicero Avenue, Calumet Sag Channel	0.830	0.780	0.524	0.664	0.745	0.637	0.764	0.478	0.398	0.416	0.510
43 Route 83, Calumet Sag Channel	0.706	0.722	0.514	0.505	0.973	0.751	0.947	0.546	0.388	0.420	0.659
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.672	1.105	1.031	0.619	0.982	0.846	0.840	0.611	0.627	0.508	0.893
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1.353	ND	1.256	0.844	0.672	0.749	0.614
89 Walnut Lane, West Branch DuPage River	0.363	0.333	0.383	0.423	0.608	0.432	0.477	0.417	0.285	0.228	0.220
64 Lake Street, West Branch DuPage River	0.879	1.017	1.009	0.863	1.154	0.894	1.062	0.773	0.577	0.536	0.627
79 Higgins Road, Salt Creek	1.286	1.306	1.534	0.869	1.666	1.448	1.119	0.858	0.760	0.737	0.815
80 Arlington Heights Road, Salt Creek	0.447	0.397	0.344	0.420	0.345	0.343	0.511	0.350	0.375	0.220	0.250
18 Devon Avenue, Salt Creek	0.533	0.488	0.421	0.539	0.590	0.434	0.660	0.518	0.583	0.248	0.425
24 Wolf Road, Salt Creek	1.071	1.287	0.875	0.732	1.312	0.662	0.859	0.621	0.557	0.478	0.598
109 Brookfield Avenue, Salt Creek	0.941	1.371	0.903	0.701	1.580	0.605	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.583	1.204	0.695	0.514	0.457	0.473
77 Elmhurst Road, Higgins Creek	0.960	1.375	0.866	1.061	1.454	1.179	1.127	0.733	0.812	0.748	0.704
78 Wille Road, Higgins Creek	0.177	0.153	0.160	0.184	0.227	0.417	0.334	0.214	0.103	0.415	0.181
12 Lake-Cook Road, Buffalo Creek	1.261	1.086	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.863	0.920	0.892	0.757	0.964	0.829	0.992	0.678	0.586	0.537	0.589
17 Oakton Street, Des Plaines River	0.812	0.875	0.722	0.726	1.499	0.632	1.024	0.770	0.577	0.586	0.688
19 Belmont Avenue, Des Plaines River	0.883	0.892	0.682	0.673	1.145	0.680	0.887	0.631	0.490	0.493	0.670
20 Roosevelt Road, Des Plaines River	0.865	0.871	0.766	0.688	1.292	0.749	0.760	0.632	0.514	0.463	0.648
22 Ogden Avenue, Des Plaines River	1.081	1.161	0.850	0.710	1.300	0.679	0.869	0.611	0.510	0.447	0.643
23 Willow Springs Road, Des Plaines River	0.880	0.932	0.727	0.702	1.068	0.611	1.007	0.652	0.557	0.577	0.596
29 Stephen Street, Des Plaines River	0.849	0.907	0.756	0.805	1.176	0.679	1.195	0.707	0.580	0.868	0.572
91 Material Service Road, Des Plaines River	0.765	0.966	0.790	0.810	1.213	0.754	1.216	0.669	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	1.348	1.222	1.425	1.342	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-96: TOTAL LEAD MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.005	0.007	0.006	0.006	0.006	0.000	0.000	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.005	0.006	0.005	0.007	0.004	0.002	0.010	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.006	0.007	0.004	0.006	0.004	0.002	0.006	0.004	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.005	0.008	0.003	0.006	0.007	0.002	0.002	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.007	0.007	0.003	0.008	0.004	0.002	0.001	0.004	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.006	0.006	0.003	0.007	0.006	0.002	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.005	0.007	0.005	0.006	0.076	0.002	0.003	0.000	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.006	0.007	0.005	0.008	0.006	0.002	0.004	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.002	0.003	0.002	0.005	0.003	0.002	0.006	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.005	0.004	0.004	0.004	0.006	0.002	0.005	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.004	0.004	0.003	0.005	0.004	0.001	0.005	0.003	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.004	0.004	0.003	0.005	0.005	0.001	0.000	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.005	0.005	0.003	0.006	0.031	0.001	0.000	0.000	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.005	0.005	0.004	0.006	0.125	0.001	0.027	0.003	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.008	0.007	0.005	0.008	0.105	0.002	0.006	0.005	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.008	0.004	0.004	0.006	0.003	0.001	0.000	0.003	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.006	0.010	0.004	0.005	0.004	0.001	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.010	0.010	0.006	0.007	0.006	0.002	0.000	0.003	0.000	0.000	0.000	0.004
108 Loomis Street, South Branch Chicago River	0.010	0.011	0.006	0.007	0.007	0.002	0.000	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.008	0.007	0.007	0.008	0.008	0.003	0.007	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.009	0.011	0.007	0.009	0.008	ND	ND	0.009	0.000	0.000	0.000	0.003
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.003	0.004	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.010	0.011	0.007	0.009	0.009	0.003	0.000	0.006	0.004	0.000	0.000	0.003
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.008	0.008	0.004	0.006	0.006	0.002	0.003	0.254	0.000	0.003	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.008	0.007	0.005	0.007	0.007	0.002	0.000	0.003	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.009	0.008	0.007	0.009	0.008	0.002	0.000	0.004	0.000	0.000	0.000	0.017
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.004	0.005	0.007	0.007
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.007	0.006	0.007	0.007	0.003	0.002	0.001	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.010	0.004	0.003	0.005	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.017
50 Burnham Avenue, Wolf Lake	0.007	0.003	0.004	0.003	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.006	0.008	0.004	0.005	0.004	0.002	0.002	0.010	0.000	0.000	0.000	0.003
86 Burnham Avenue, Grand Calumet River	0.012	0.013	0.034	0.015	0.014	0.002	0.000	0.005	0.005	0.000	0.000	0.003
56 Indiana Avenue, Little Calumet River	0.027	0.006	0.006	0.006	0.007	0.003	0.003	0.003	0.000	0.000	0.000	0.009
76 Halsted Street, Little Calumet River	0.042	0.006	0.005	0.007	0.006	0.003	0.000	0.000	0.000	0.000	0.000	0.006
52 Wentworth Avenue, Little Calumet River	0.005	0.006	0.005	0.007	0.005	0.003	0.005	0.003	0.000	0.000	0.000	0.004
54 Joe Orr Road, Thorn Creek	0.004	0.004	0.016	0.005	0.005	0.000	0.003	0.008	0.000	0.000	0.000	0.003
97 170th Street, Thorn Creek	0.007	0.006	0.007	0.010	0.006	0.003	0.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.007	0.006	0.008	0.011	0.007	0.002	0.000	0.000	0.000	0.000	0.000	0.005
58 Ashland Avenue, Calumet Sag Channel	0.007	0.006	0.010	0.007	0.006	0.004	0.003	0.003	0.000	0.000	0.000	0.003
59 Cicero Avenue, Calumet Sag Channel	0.006	0.007	0.005	0.009	0.007	0.003	0.001	0.000	0.007	0.000	0.000	0.014
43 Route 83, Calumet Sag Channel	0.006	0.008	0.008	0.007	0.009	0.004	0.068	0.006	0.000	0.000	0.000	0.008
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.003	0.004	0.003	0.008	0.004	0.002	0.000	0.000	0.000	0.553	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.006	ND	0.000	0.003	0.000	0.000	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.004	0.005	0.003	0.010	0.006	0.009	0.000	0.003	0.000	0.358	0.000	0.000
64 Lake Street, West Branch DuPage River	0.004	0.005	0.012	0.008	0.005	0.002	0.000	0.004	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.005	0.006	0.005	0.009	0.006	0.003	0.052	0.004	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.003	0.005	0.003	0.007	0.004	0.001	0.000	0.008	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.003	0.004	0.004	0.006	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.004
24 Wolf Road, Salt Creek	0.006	0.007	0.004	0.008	0.007	0.003	0.005	0.000	0.000	0.000	0.000	0.008
109 Brookfield Avenue, Salt Creek	0.006	0.007	0.005	0.009	0.008	0.005	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.005	0.004	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.009	0.008	0.004	0.011	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.004	0.004	0.004	0.007	0.004	0.003	0.002	0.000	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.005	0.004	0.003	0.022	0.005	0.003	0.027	0.004	0.000	0.000	0.000	0.009
17 Oakton Street, Des Plaines River	0.005	0.005	0.004	0.007	0.006	0.003	0.002	0.004	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.005	0.006	0.005	0.008	0.006	0.003	0.000	0.012	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.005	0.007	0.005	0.008	0.005	0.002	0.002	0.000	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.006	0.008	0.005	0.008	0.008	0.002	0.003	0.000	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.006	0.007	0.005	0.012	0.007	0.003	0.000	0.004	0.000	0.000	0.000	0.005
29 Stephen Street, Des Plaines River	0.005	0.006	0.005	0.009	0.008	0.002	0.002	0.000	0.000	0.000	0.000	0.003
91 Material Service Road, Des Plaines River	0.007	0.007	0.005	0.009	0.008	0.002	0.007	0.003	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.005	0.005	0.004	0.010	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-97: TOTAL NICKEL MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.005	0.020	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.003	0.003	0.003	0.004	0.005	0.006	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.002	0.003	0.001	0.003	0.006	0.004	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.002	0.002	0.002	0.002	0.005	0.006	0.000	0.000	0.005	0.002
104 Glenview Road, North Branch Chicago River	0.001	0.002	0.002	0.003	0.001	0.004	0.003	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.002	0.001	0.001	0.002	0.005	0.006	0.000	0.000	0.003	0.003
105 Frontage Road, Skokie River	0.001	0.001	0.001	0.002	0.005	0.004	0.003	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.002	0.002	0.001	0.003	0.004	0.004	0.001	0.000	0.003	0.003
96 Albany Avenue, North Branch Chicago River	0.001	0.002	0.002	0.004	0.003	0.005	0.003	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.003	0.002	0.003	0.000	0.000	0.003	0.001
102 Oakton Street, North Shore Channel	0.001	0.002	0.002	0.001	0.003	0.005	0.004	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.002	0.002	0.002	0.005	0.004	0.006	0.004	0.000	0.005	0.008
101 Foster Avenue, North Shore Channel	0.002	0.002	0.003	0.002	0.005	0.006	0.007	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.002	0.002	0.003	0.003	0.005	0.005	0.007	0.007	0.000	0.005	0.005
73 Diversey Parkway, North Branch Chicago River	0.002	0.002	0.003	0.002	0.006	0.009	0.008	0.004	0.000	0.006	0.008
46 Grand Avenue, North Branch Chicago River	0.004	0.004	0.004	0.004	0.008	0.008	0.007	0.004	0.000	0.008	0.009
74 Lake Shore Drive, Chicago River	0.001	0.000	0.001	0.001	0.001	0.003	0.007	0.003	0.000	0.007	0.005
100 Wells Street, Chicago River	0.002	0.001	0.002	0.002	0.004	0.004	0.011	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.012	0.003	0.004	0.003	0.006	0.007	0.008	0.004	0.003	0.004	0.004
108 Loomis Street, South Branch Chicago River	0.004	0.003	0.004	0.003	0.006	0.007	0.004	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.003	0.003	0.004	0.003	0.005	0.006	0.005	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.004	0.003	0.007	ND	ND	0.003	0.000	0.005	0.005
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.006	0.006	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.004	0.003	0.007	0.006	0.005	0.005	0.001	0.003	0.003
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.005	0.006	0.005	0.005	0.008	0.005	0.003	0.000	0.003	0.004
42 Route 83, Chicago Sanitary & Ship Canal	0.006	0.005	0.006	0.007	0.008	0.009	0.006	0.005	0.003	0.004	0.006
48 Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.004	0.006	0.006	0.007	0.009	0.006	0.005	0.000	0.005	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.003	0.001	0.001
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.004	0.005	0.006	0.005	0.006	0.008	0.005	0.002	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.004	0.003
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.003	0.002
55 130th Street, Calumet River	0.001	0.001	0.001	0.001	0.002	0.002	0.004	0.001	0.002	0.002	0.003
86 Burnham Avenue, Grand Calumet River	0.003	0.003	0.005	0.004	0.005	0.009	0.006	0.002	0.003	0.003	0.006
56 Indiana Avenue, Little Calumet River	0.004	0.002	0.002	0.002	0.003	0.006	0.002	0.003	0.002	0.004	0.007
76 Halsted Street, Little Calumet River	0.003	0.002	0.004	0.002	0.004	0.004	0.003	0.004	0.003	0.003	0.008
52 Wentworth Avenue, Little Calumet River	0.002	0.002	0.003	0.003	0.002	0.005	0.004	0.000	0.003	0.002	0.006
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.004	0.001	0.003	0.005	0.002	0.002	0.002	0.002	0.007
97 170th Street, Thorn Creek	0.003	0.004	0.007	0.005	0.003	0.007	0.005	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.003	0.005	0.004	0.004	0.010	0.005	0.001	0.002	0.003	0.007
58 Ashland Avenue, Calumet Sag Channel	0.003	0.002	0.003	0.003	0.004	0.004	0.004	0.003	0.002	0.005	0.003
59 Cicero Avenue, Calumet Sag Channel	0.003	0.003	0.003	0.003	0.005	0.005	0.004	0.002	0.002	0.003	0.006
43 Route 83, Calumet Sag Channel	0.003	0.003	0.004	0.002	0.005	0.006	0.005	0.003	0.003	0.004	0.004
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.001	0.002	0.000	0.001	0.003	0.002	0.000	0.000	0.004	0.008
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.002	ND	0.004	0.000	0.002	0.011	0.005
89 Walnut Lane, West Branch DuPage River	0.002	0.003	0.003	0.001	0.001	0.005	0.002	0.000	0.000	0.006	0.006
64 Lake Street, West Branch DuPage River	0.003	0.004	0.004	0.002	0.002	0.004	0.003	0.002	0.000	0.006	0.005
79 Higgins Road, Salt Creek	0.002	0.002	0.004	0.002	0.002	0.006	0.004	0.000	0.000	0.005	0.006
80 Arlington Heights Road, Salt Creek	0.003	0.002	0.003	0.002	0.002	0.005	0.003	0.000	0.000	0.006	0.007
18 Devon Avenue, Salt Creek	0.003	0.002	0.003	0.002	0.003	0.004	0.002	0.000	0.000	0.004	0.010
24 Wolf Road, Salt Creek	0.004	0.004	0.005	0.005	0.004	0.009	0.004	0.002	0.000	0.008	0.006
109 Brookfield Avenue, Salt Creek	0.004	0.004	0.006	0.005	0.004	0.011	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.003	0.009	0.002	0.000	0.008	0.006
77 Elmhurst Road, Higgins Creek	0.002	0.002	0.002	0.002	0.002	0.005	0.004	0.000	0.000	0.008	0.008
78 Wille Road, Higgins Creek	0.007	0.007	0.014	0.006	0.005	0.009	0.008	0.003	0.000	0.006	0.006
12 Lake-Cook Road, Buffalo Creek	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.002	0.005	0.003	0.005	0.005	0.003	0.000	0.000	0.006	0.008
17 Oakton Street, Des Plaines River	0.001	0.002	0.004	0.002	0.004	0.005	0.003	0.000	0.000	0.004	0.003
19 Belmont Avenue, Des Plaines River	0.003	0.003	0.006	0.003	0.005	0.006	0.003	0.000	0.000	0.005	0.003
20 Roosevelt Road, Des Plaines River	0.002	0.003	0.006	0.003	0.004	0.007	0.003	0.002	0.000	0.003	0.005
22 Ogden Avenue, Des Plaines River	0.003	0.004	0.006	0.003	0.005	0.008	0.004	0.000	0.000	0.002	0.008
23 Willow Springs Road, Des Plaines River	0.003	0.003	0.006	0.003	0.004	0.007	0.004	0.002	0.000	0.003	0.005
29 Stephen Street, Des Plaines River	0.003	0.003	0.005	0.003	0.005	0.007	0.003	0.002	0.000	0.004	0.004
91 Material Service Road, Des Plaines River	0.003	0.003	0.005	0.004	0.005	0.007	0.004	0.001	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-98: TOTAL MANGANESE MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.122	0.139	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.075	0.087	0.083	0.097	0.097	0.067	0.110	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.074	0.068	0.087	0.067	0.070	0.091	0.098	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.148	0.084	0.128	0.092	0.077	0.148	0.107	0.080	0.217	0.079	0.177
104 Glenview Road, North Branch Chicago River	0.062	0.072	0.080	0.060	0.062	0.060	0.078	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.120	0.086	0.124	0.137	0.081	0.096	0.131	0.100	0.162	0.115	0.123
105 Frontage Road, Skokie River	0.055	0.038	0.045	0.086	0.108	0.046	0.057	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.068	0.064	0.072	0.065	0.112	0.083	0.098	0.067	0.059	0.067	0.066
96 Albany Avenue, North Branch Chicago River	0.068	0.060	0.059	0.062	0.072	0.057	0.068	0.035	ND	ND	ND
35 Central Street, North Shore Channel	0.015	0.019	0.045	0.017	0.020	0.028	0.037	0.021	0.024	0.017	0.026
102 Oakton Street, North Shore Channel	0.021	0.024	0.021	0.025	0.031	0.026	0.036	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.019	0.014	0.021	0.019	0.016	0.034	0.038	0.029	0.018	0.015	0.031
101 Foster Avenue, North Shore Channel	0.020	0.015	0.021	0.023	0.019	0.027	0.020	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.026	0.022	0.026	0.027	0.030	0.035	0.047	0.042	0.048	0.029	0.028
73 Diversey Parkway, North Branch Chicago River	0.029	0.026	0.026	0.027	0.046	0.036	0.053	0.081	0.027	0.045	0.164
46 Grand Avenue, North Branch Chicago River	0.054	0.031	0.033	0.037	0.038	0.042	0.042	0.044	0.028	0.052	0.026
74 Lake Shore Drive, Chicago River	0.018	0.008	0.012	0.018	0.013	0.017	0.020	0.035	0.010	0.009	0.015
100 Wells Street, Chicago River	0.024	0.013	0.020	0.022	0.020	0.021	0.027	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.030	0.022	0.069	0.028	0.028	0.036	0.037	0.039	0.027	0.021	0.019
108 Loomis Street, South Branch Chicago River	0.042	0.027	0.036	0.028	0.027	0.035	0.050	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.033	0.026	0.038	0.034	0.032	0.048	0.062	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.032	0.029	0.031	0.029	0.035	ND	ND	0.038	0.028	0.024	0.024
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.041	0.070	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.034	0.029	0.029	0.029	0.032	0.040	0.045	0.047	0.027	0.022	0.034
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.031	0.031	0.019	0.019	0.017	0.036	0.030	0.046	0.022	0.019	0.018
42 Route 83, Chicago Sanitary & Ship Canal	0.023	0.020	0.021	0.022	0.029	0.039	0.029	0.028	0.025	0.013	0.024
48 Stephen Street, Chicago Sanitary & Ship Canal	0.032	0.039	0.039	0.042	0.039	0.043	0.050	0.049	0.033	0.026	0.040
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.049	0.083	0.066	0.093
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.039	0.036	0.037	0.047	0.037	0.053	0.045	0.074	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.023	0.017	0.016	0.053	0.020	0.022	0.030	0.024	0.029	0.028	0.014
50 Burnham Avenue, Wolf Lake	0.081	0.029	0.054	0.040	0.035	0.028	0.043	0.044	0.058	0.062	0.063
55 130th Street, Calumet River	0.028	0.040	0.033	0.030	0.039	0.031	0.046	0.037	0.031	0.038	0.037
86 Burnham Avenue, Grand Calumet River	0.176	0.144	0.093	0.096	0.158	0.098	0.093	0.090	0.058	0.044	0.052
56 Indiana Avenue, Little Calumet River	0.046	0.029	0.037	0.028	0.039	0.086	0.041	0.040	0.057	0.038	0.040
76 Halsted Street, Little Calumet River	0.078	0.041	0.037	0.036	0.041	0.053	0.068	0.058	0.056	0.045	0.046
52 Wentworth Avenue, Little Calumet River	0.131	0.112	0.115	0.138	0.124	0.134	0.145	0.138	0.130	0.149	0.109
54 Joe Orr Road, Thorn Creek	0.066	0.050	0.131	0.073	0.058	0.073	0.070	0.065	0.062	0.043	0.146
97 170th Street, Thorn Creek	0.097	0.080	0.095	0.111	0.080	0.102	0.100	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.114	0.087	0.123	0.128	0.109	0.104	0.126	0.093	0.100	0.098	0.089
58 Ashland Avenue, Calumet Sag Channel	0.061	0.048	0.052	0.048	0.055	0.066	0.071	0.069	0.078	0.053	0.048
59 Cicero Avenue, Calumet Sag Channel	0.056	0.056	0.050	0.071	0.078	0.073	0.078	0.064	0.065	0.058	0.060
43 Route 83, Calumet Sag Channel	0.057	0.054	0.065	0.059	0.094	0.063	0.076	0.063	0.061	0.053	0.064
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.080	0.080	0.147	0.097	0.083	0.103	0.107	0.155	0.068	0.164	0.208
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.060	ND	0.151	0.118	0.073	0.174	0.108
89 Walnut Lane, West Branch DuPage River	0.036	0.033	0.044	0.044	0.043	0.074	0.074	0.105	0.038	0.080	0.133
64 Lake Street, West Branch DuPage River	0.073	0.065	0.087	0.071	0.076	0.069	0.092	0.065	0.061	0.068	0.111
79 Higgins Road, Salt Creek	0.110	0.089	0.138	0.124	0.096	0.134	0.124	0.092	0.091	0.092	0.252
80 Arlington Heights Road, Salt Creek	0.059	0.046	0.063	0.057	0.052	0.051	0.051	0.061	0.050	0.064	0.115
18 Devon Avenue, Salt Creek	0.057	0.048	0.053	0.052	0.054	0.052	0.055	0.085	0.069	0.050	0.153
24 Wolf Road, Salt Creek	0.065	0.061	0.059	0.055	0.069	0.066	0.077	0.087	0.065	0.083	0.064
109 Brookfield Avenue, Salt Creek	0.059	0.061	0.065	0.055	0.072	0.042	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.065	0.101	0.061	0.055	0.068	0.058
77 Elmhurst Road, Higgins Creek	0.112	0.107	0.106	0.125	0.115	0.120	0.163	0.133	0.112	0.136	0.111
78 Wille Road, Higgins Creek	0.040	0.030	0.023	0.025	0.033	0.048	0.038	0.064	0.022	0.093	0.043
12 Lake-Cook Road, Buffalo Creek	0.142	0.107	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.067	0.067	0.086	0.084	0.083	0.089	0.090	0.071	0.065	0.111	0.218
17 Oakton Street, Des Plaines River	0.065	0.062	0.080	0.067	0.093	0.089	0.102	0.093	0.071	0.098	0.077
19 Belmont Avenue, Des Plaines River	0.060	0.061	0.079	0.061	0.076	0.079	0.090	0.069	0.059	0.096	0.074
20 Roosevelt Road, Des Plaines River	0.061	0.061	0.073	0.062	0.074	0.145	0.077	0.065	0.061	0.080	0.073
22 Ogden Avenue, Des Plaines River	0.076	0.058	0.068	0.058	0.077	0.066	0.075	0.060	0.056	0.068	0.072
23 Willow Springs Road, Des Plaines River	0.050	0.054	0.064	0.075	0.062	0.062	0.083	0.093	0.062	0.083	0.065
29 Stephen Street, Des Plaines River	0.055	0.051	0.066	0.059	0.066	0.060	0.086	0.081	0.064	0.078	0.072
91 Material Service Road, Des Plaines River	0.058	0.054	0.068	0.065	0.068	0.065	0.097	0.061	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.113	0.129	0.209	0.126	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-99: TOTAL MERCURY MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.015	0.000	0.000	0.179	0.000	0.028	0.000	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.015	0.039	0.080	0.016	0.045	0.013	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.012	0.013	0.121	0.029	0.015	0.007	0.000	0.019	0.044	0.030	0.030
104 Glenview Road, North Branch Chicago River	0.007	0.024	0.034	0.111	0.013	0.034	0.006	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.005	0.022	0.029	0.113	0.019	0.040	0.005	0.024	0.035	0.038	0.050	0.050
105 Frontage Road, Skokie River	0.008	0.011	0.062	0.160	0.021	0.030	0.010	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.011	0.010	0.034	0.125	0.012	0.031	0.000	0.022	0.037	0.040	0.036	0.036
96 Albany Avenue, North Branch Chicago River	0.027	0.006	0.064	0.028	0.016	0.023	0.013	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.007	0.016	0.000	0.010	0.038	0.006	0.000	0.012	0.028	0.040	0.040
102 Oakton Street, North Shore Channel	0.008	0.009	0.068	0.076	0.000	0.025	0.017	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.011	0.040	0.077	0.018	0.018	0.028	0.017	0.006	0.033	0.058	0.058
101 Foster Avenue, North Shore Channel	0.008	0.011	0.046	0.067	0.006	0.026	0.013	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.024	0.041	0.095	0.017	0.024	0.018	0.008	0.016	0.043	0.075	0.075
73 Diversey Parkway, North Branch Chicago River	0.000	0.011	0.022	0.016	0.010	0.035	0.013	0.059	0.036	0.043	0.092	0.092
46 Grand Avenue, North Branch Chicago River	0.017	0.009	0.018	0.039	0.041	0.046	0.000	0.028	0.021	0.043	0.895	0.895
74 Lake Shore Drive, Chicago River	0.015	0.005	0.000	0.122	0.044	0.020	0.000	0.015	0.025	0.044	0.009	0.009
100 Wells Street, Chicago River	0.012	0.016	0.030	0.061	0.033	0.013	0.006	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.013	0.016	0.011	0.021	0.058	0.031	0.000	0.029	0.028	0.033	0.009	0.009
108 Loomis Street, South Branch Chicago River	0.013	0.024	0.017	0.034	0.040	0.018	0.019	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.029	0.020	0.053	0.018	0.018	0.039	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.004	0.023	0.007	0.021	0.033	ND	ND	0.011	0.017	0.031	0.008	0.008
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.018	0.014	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.022	0.029	0.049	0.038	0.011	0.003	0.028	0.022	0.043	0.067	0.067
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.007	0.017	0.000	0.022	0.021	0.015	0.016	0.026	0.018	0.034	0.017	0.017
42 Route 83, Chicago Sanitary & Ship Canal	0.018	0.016	0.010	0.087	0.023	0.007	0.005	0.015	0.018	0.033	0.050	0.050
48 Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.018	0.016	0.093	0.031	0.008	0.000	0.005	0.006	0.026	0.017	0.017
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.007	0.021	0.000	0.008	0.008
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.010	0.015	0.017	0.079	0.045	0.026	0.013	0.009	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.008	0.000	0.110	0.013	0.018	0.004	0.013	0.008	0.030	0.033	0.033
50 Burnham Avenue, Wolf Lake	0.010	0.015	0.005	0.020	0.038	0.021	0.009	0.010	0.021	0.027	0.033	0.033
55 130th Street, Calumet River	0.000	0.015	0.017	0.051	0.009	0.031	0.014	0.000	0.035	0.033	0.067	0.067
86 Burnham Avenue, Grand Calumet River	0.049	0.034	0.148	0.068	0.079	0.055	0.032	0.000	0.051	0.128	0.083	0.083
56 Indiana Avenue, Little Calumet River	0.000	0.018	0.019	0.000	0.027	0.034	0.021	0.008	0.029	0.041	0.064	0.064
76 Halsted Street, Little Calumet River	0.000	0.021	0.018	0.029	0.007	0.047	0.003	0.005	0.038	0.033	0.375	0.375
52 Wentworth Avenue, Little Calumet River	0.000	0.015	0.036	0.017	0.027	0.034	0.024	0.015	0.016	0.033	0.050	0.050
54 Joe Orr Road, Thorn Creek	0.000	0.018	0.033	0.000	0.053	0.044	0.004	0.000	0.035	0.036	0.042	0.042
97 170th Street, Thorn Creek	0.005	0.015	0.031	0.025	0.034	0.018	0.032	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.012	0.015	0.044	0.052	0.025	0.041	0.020	0.000	0.040	0.042	0.050	0.050
58 Ashland Avenue, Calumet Sag Channel	0.007	0.015	0.010	0.032	0.010	0.009	0.008	0.014	0.014	0.014	0.933	0.933
59 Cicero Avenue, Calumet Sag Channel	0.000	0.018	0.019	0.050	0.007	0.021	0.013	0.016	0.013	0.035	0.092	0.092
43 Route 83, Calumet Sag Channel	0.005	0.010	0.023	0.017	0.007	0.028	0.018	0.008	0.016	0.040	0.083	0.083
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.019	0.008	0.045	0.051	0.016	0.028	0.027	0.000	0.021	0.505	0.122	0.122
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.000	0.000	0.012	0.041	0.030	0.030
89 Walnut Lane, West Branch DuPage River	0.007	0.008	0.007	0.042	0.016	0.024	0.009	0.017	0.053	0.328	0.042	0.042
64 Lake Street, West Branch DuPage River	0.015	0.009	0.013	0.044	0.044	0.029	0.009	0.007	0.060	0.021	0.058	0.058
79 Higgins Road, Salt Creek	0.012	0.000	0.008	0.014	0.032	0.051	0.005	0.018	0.058	0.062	0.055	0.055
80 Arlington Heights Road, Salt Creek	0.000	0.013	0.023	0.025	0.041	0.030	0.009	0.000	0.057	0.067	0.050	0.050
18 Devon Avenue, Salt Creek	0.006	0.018	0.044	0.058	0.040	0.008	0.012	0.000	0.061	0.035	0.067	0.067
24 Wolf Road, Salt Creek	0.013	0.013	0.011	0.027	0.066	0.045	0.014	0.000	0.044	0.077	0.033	0.033
109 Brookfield Avenue, Salt Creek	0.005	0.013	0.000	0.075	0.035	0.023	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.009	0.000	0.062	0.019	0.027	0.027
77 Elmhurst Road, Higgins Creek	0.010	0.000	0.000	0.040	0.048	0.030	0.015	0.000	0.045	0.053	0.036	0.036
78 Wille Road, Higgins Creek	0.006	0.013	0.013	0.032	0.038	0.018	0.017	0.008	0.050	0.019	0.033	0.033
12 Lake-Cook Road, Buffalo Creek	0.007	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.006	0.020	0.014	0.035	0.021	0.023	0.016	0.000	0.056	0.058	0.045	0.045
17 Oakton Street, Des Plaines River	0.009	0.013	0.017	0.025	0.075	0.028	0.019	0.000	0.079	0.036	0.018	0.018
19 Belmont Avenue, Des Plaines River	0.000	0.014	0.000	0.037	0.053	0.041	0.000	0.000	0.062	0.052	0.025	0.025
20 Roosevelt Road, Des Plaines River	0.005	0.013	0.013	0.032	0.114	0.038	0.011	0.000	0.064	0.051	0.025	0.025
22 Ogden Avenue, Des Plaines River	0.006	0.018	0.013	0.050	0.054	0.055	0.017	0.000	0.064	0.012	0.017	0.017
23 Willow Springs Road, Des Plaines River	0.007	0.013	0.013	0.016	0.037	0.090	0.033	0.000	0.095	0.025	0.055	0.055
29 Stephen Street, Des Plaines River	0.013	0.047	0.011	0.037	0.016	0.044	0.029	0.000	0.065	0.033	0.017	0.017
91 Material Service Road, Des Plaines River	0.007	0.012	0.021	0.017	0.015	0.033	0.016	0.002	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.007	0.009	0.031	0.039	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-100: LOW LEVEL MERCURY MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (ng/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2.4	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	3.6	9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	2.0	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	1.8	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	2.8	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	1.4	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	2.9	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	3.4	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.7	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	2.7	4.7	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	ND
101 Foster Avenue, North Shore Channel	ND	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	ND
73 Diversey Parkway, North Branch Chicago River	ND	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	ND
74 Lake Shore Drive, Chicago River	1.4	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	1.6	2.1	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	ND
108 Loomis Street, South Branch Chicago River	ND	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	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	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	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	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	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	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	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	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	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.7	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.2	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	1.6	4.2	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	ND
56 Indiana Avenue, Little Calumet River	ND	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	ND
52 Wentworth Avenue, Little Calumet River	3.0	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	2.8	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	5.7	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4.2	7.6	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	ND
59 Cicero Avenue, Calumet Sag Channel	ND	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	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	2.6	2.9	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	ND
89 Walnut Lane, West Branch DuPage River	1.6	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	2.3	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	1.5	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.5	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.9	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	2.7	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	2.5	8.6	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	ND
77 Elmhurst Road, Higgins Creek	2.2	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.7	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	2.1	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.4	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	1.7	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	1.8	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	2.0	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	2.5	6.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	2.4	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	2.1	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	2.6	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	1.4	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data



**TABLE AII-101: TOTAL ZINC MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.070	0.079	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.030	0.045	0.039	0.052	0.045	0.031	0.091	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.022	0.026	0.028	0.032	0.028	0.046	0.047	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.019	0.029	0.019	0.021	0.022	0.022	0.056	0.020	0.027	0.005	0.019
104 Glenview Road, North Branch Chicago River	0.039	0.049	0.038	0.033	0.038	0.035	0.039	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.021	0.036	0.027	0.021	0.024	0.029	0.049	0.024	0.032	0.009	0.020
105 Frontage Road, Skokie River	0.026	0.029	0.035	0.042	0.047	0.043	0.038	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.021	0.025	0.031	0.034	0.046	0.042	0.040	0.036	0.058	0.008	0.025
96 Albany Avenue, North Branch Chicago River	0.023	0.024	0.030	0.032	0.036	0.038	0.041	0.038	ND	ND	ND
35 Central Street, North Shore Channel	0.010	0.011	0.019	0.020	0.025	0.028	0.023	0.015	0.007	0.001	0.009
102 Oakton Street, North Shore Channel	0.030	0.027	0.030	0.026	0.042	0.037	0.030	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.038	0.035	0.042	0.040	0.045	0.058	0.055	0.047	0.037	0.017	0.038
101 Foster Avenue, North Shore Channel	0.039	0.035	0.039	0.047	0.046	0.044	0.047	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.036	0.032	0.039	0.042	0.043	0.042	0.055	0.046	0.033	0.013	0.028
73 Diversey Parkway, North Branch Chicago River	0.036	0.032	0.037	0.036	0.058	0.045	0.056	0.062	0.043	0.020	0.057
46 Grand Avenue, North Branch Chicago River	0.040	0.041	0.049	0.051	0.064	0.049	0.049	0.049	0.035	0.015	0.034
74 Lake Shore Drive, Chicago River	0.030	0.018	0.029	0.023	0.024	0.023	0.039	0.031	0.011	0.008	0.025
100 Wells Street, Chicago River	0.026	0.021	0.030	0.028	0.030	0.028	0.044	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.046	0.029	0.043	0.046	0.042	0.077	0.061	0.043	0.028	0.011	0.024
108 Loomis Street, South Branch Chicago River	0.043	0.033	0.038	0.042	0.041	0.040	0.045	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.032	0.028	0.039	0.040	0.038	0.044	0.055	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.043	0.042	0.045	0.047	0.065	ND	ND	0.039	0.023	0.012	0.028
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.045	0.078	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.046	0.035	0.040	0.042	0.041	0.046	0.057	0.046	0.033	0.012	0.032
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.046	0.035	0.041	0.037	0.038	0.038	0.046	0.047	0.036	0.013	0.033
42 Route 83, Chicago Sanitary & Ship Canal	0.045	0.032	0.038	0.045	0.047	0.045	0.048	0.036	0.031	0.018	0.046
48 Stephen Street, Chicago Sanitary & Ship Canal	0.045	0.033	0.044	0.056	0.047	0.046	0.052	0.046	0.028	0.015	0.041
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.075	0.094	0.162	0.141
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.038	0.038	0.049	0.047	0.049	0.050	0.049	0.053	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.021	0.016	0.014	0.019	0.018	0.021	0.030	0.022	0.025	0.013	0.008
50 Burnham Avenue, Wolf Lake	0.047	0.008	0.015	0.016	0.019	0.013	0.026	0.015	0.013	0.008	0.007
55 130th Street, Calumet River	0.019	0.053	0.022	0.026	0.022	0.025	0.044	0.022	0.015	0.019	0.012
86 Burnham Avenue, Grand Calumet River	0.053	0.055	0.154	0.062	0.081	0.087	0.075	0.078	0.080	0.103	0.068
56 Indiana Avenue, Little Calumet River	0.033	0.021	0.030	0.032	0.034	0.051	0.034	0.040	0.032	0.028	0.025
76 Halsted Street, Little Calumet River	0.053	0.041	0.051	0.052	0.050	0.065	0.066	0.047	0.027	0.034	0.036
52 Wentworth Avenue, Little Calumet River	0.026	0.027	0.035	0.047	0.036	0.064	0.046	0.045	0.028	0.023	0.031
54 Joe Orr Road, Thorn Creek	0.050	0.050	0.103	0.059	0.040	0.054	0.065	0.060	0.041	0.032	0.054
97 170th Street, Thorn Creek	0.038	0.031	0.046	0.060	0.048	0.054	0.050	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.035	0.027	0.059	0.052	0.050	0.041	0.052	0.060	0.031	0.063	0.032
58 Ashland Avenue, Calumet Sag Channel	0.048	0.040	0.069	0.060	0.055	0.055	0.066	0.054	0.030	0.028	0.032
59 Cicero Avenue, Calumet Sag Channel	0.032	0.037	0.044	0.055	0.049	0.053	0.050	0.044	0.036	0.034	0.038
43 Route 83, Calumet Sag Channel	0.035	0.034	0.055	0.046	0.055	0.051	0.064	0.062	0.035	0.042	0.064
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.013	0.014	0.035	0.017	0.033	0.027	0.024	0.012	0.015	0.015	0.037
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.032	ND	0.041	0.022	0.036	0.023	0.035
89 Walnut Lane, West Branch DuPage River	0.042	0.039	0.051	0.062	0.053	0.069	0.061	0.047	0.042	0.059	0.042
64 Lake Street, West Branch DuPage River	0.034	0.044	0.051	0.048	0.051	0.045	0.066	0.037	0.029	0.039	0.040
79 Higgins Road, Salt Creek	0.020	0.015	0.028	0.022	0.029	0.023	0.027	0.018	0.020	0.006	0.027
80 Arlington Heights Road, Salt Creek	0.036	0.025	0.039	0.078	0.036	0.031	0.039	0.034	0.027	0.016	0.031
18 Devon Avenue, Salt Creek	0.024	0.024	0.042	0.034	0.036	0.035	0.035	0.034	0.033	0.014	0.028
24 Wolf Road, Salt Creek	0.034	0.040	0.049	0.050	0.051	0.061	0.054	0.143	0.052	0.045	0.031
109 Brookfield Avenue, Salt Creek	0.032	0.040	0.050	0.040	0.049	0.045	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.049	0.059	0.038	0.041	0.029	0.026
77 Elmhurst Road, Higgins Creek	0.035	0.042	0.041	0.053	0.050	0.040	0.041	0.032	0.025	0.029	0.015
78 Wille Road, Higgins Creek	0.047	0.049	0.076	0.066	0.066	0.075	0.062	0.067	0.045	0.062	0.043
12 Lake-Cook Road, Buffalo Creek	0.019	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.025	0.024	0.036	0.034	0.043	0.039	0.036	0.030	0.023	0.021	0.063
17 Oakton Street, Des Plaines River	0.023	0.024	0.037	0.032	0.048	0.038	0.037	0.033	0.025	0.024	0.014
19 Belmont Avenue, Des Plaines River	0.029	0.033	0.054	0.040	0.060	0.044	0.041	0.030	0.025	0.031	0.023
20 Roosevelt Road, Des Plaines River	0.031	0.034	0.046	0.037	0.059	0.047	0.038	0.029	0.033	0.023	0.028
22 Ogden Avenue, Des Plaines River	0.037	0.037	0.046	0.036	0.055	0.043	0.050	0.047	0.040	0.025	0.033
23 Willow Springs Road, Des Plaines River	0.028	0.034	0.043	0.037	0.045	0.037	0.048	0.056	0.035	0.033	0.029
29 Stephen Street, Des Plaines River	0.033	0.033	0.042	0.035	0.048	0.041	0.047	0.043	0.031	0.026	0.031
91 Material Service Road, Des Plaines River	0.027	0.033	0.040	0.039	0.052	0.037	0.049	0.046	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.036	0.023	0.035	0.031	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-102: TOTAL SELENIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.003	0.007	0.010	0.003	0.010	0.000	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.006	0.015	0.003	0.007	0.006	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.001	0.005	0.014	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.004	0.011	0.002	0.003	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.005	0.012	0.005	0.009	0.002	0.000	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.001	0.006	0.012	0.006	0.002	0.002	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.001	0.006	0.012	0.008	0.010	0.000	0.000	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.001	0.004	0.009	0.006	0.006	0.004	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.007	0.008	0.003	0.008	0.007	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.002	0.004	0.011	0.004	0.002	0.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.001	0.008	0.010	0.008	0.008	0.002	0.000	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.001	0.006	0.010	0.006	0.013	0.004	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.001	0.007	0.011	0.006	0.017	0.007	0.000	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.005	0.010	0.006	0.012	0.000	0.000	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.001	0.009	0.010	0.007	0.006	0.006	0.000	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.006	0.009	0.005	0.009	0.003	0.000	0.000	0.000	0.000	0.024
100 Wells Street, Chicago River	0.000	0.000	0.005	0.008	0.004	0.010	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.007	0.009	0.004	0.010	0.003	0.000	0.000	0.000	0.000	0.019
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.008	0.007	0.004	0.010	0.003	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.006	0.009	0.005	0.010	0.002	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.008	0.008	0.005	ND	ND	0.000	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.008	0.007	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.010	0.008	0.004	0.010	0.007	0.000	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.008	0.010	0.004	0.006	0.004	0.000	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.007	0.008	0.004	0.008	0.005	0.000	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.007	0.008	0.005	0.009	0.007	0.000	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.004	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.007	0.011	0.005	0.007	0.009	0.001	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.000	0.004	0.008	0.005	0.005	0.003	0.000	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.004	0.007	0.003	0.004	0.003	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.005	0.011	0.003	0.008	0.004	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.005	0.015	0.004	0.009	0.006	0.000	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.005	0.008	0.003	0.009	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.006	0.011	0.007	0.006	0.008	0.017	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.004	0.012	0.003	0.012	0.008	0.000	0.000	0.000	0.000	0.017
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.005	0.006	0.009	0.009	0.003	0.000	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.005	0.008	0.005	0.008	0.004	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.007	0.012	0.004	0.007	0.007	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.005	0.010	0.006	0.012	0.003	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.005	0.013	0.003	0.005	0.008	0.000	0.000	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.000	0.000	0.005	0.010	0.004	0.011	0.002	0.000	0.000	0.000	0.000	0.000
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	0.000	0.008	0.013	0.016	0.010	0.004	0.000	0.000	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.005	0.000	0.000	0.000	0.000	0.003
89 Walnut Lane, West Branch DuPage River	0.000	0.001	0.008	0.012	0.005	0.010	0.007	0.000	0.000	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.008	0.013	0.005	0.007	0.005	0.000	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.002	0.007	0.013	0.001	0.003	0.011	0.000	0.000	0.000	0.000	0.018
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.009	0.010	0.003	0.016	0.010	0.000	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.008	0.011	0.005	0.005	0.008	0.000	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.009	0.012	0.003	0.003	0.012	0.000	0.000	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.007	0.011	0.003	0.004	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.020	0.007	0.000	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.010	0.014	0.005	0.008	0.008	0.000	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.001	0.008	0.011	0.006	0.010	0.007	0.000	0.000	0.000	0.000	0.017
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.007	0.014	0.006	0.007	0.009	0.000	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.006	0.011	0.004	0.010	0.003	0.000	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.007	0.010	0.004	0.008	0.008	0.000	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.007	0.013	0.002	0.006	0.007	0.000	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.010	0.011	0.007	0.017	0.008	0.000	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.008	0.010	0.004	0.006	0.005	0.000	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.008	0.011	0.003	0.003	0.006	0.000	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.002	0.010	0.013	0.005	0.003	0.005	0.005	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.009	0.014	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-103: SOLUBLE CALCIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	70.9	57.9	65.7	81.4	53.7	73.3	70.3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	72.2	70.4	74.0	69.0	66.0	66.2	66.1	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	63.4	58.4	59.4	62.4	62.0	65.9	65.6	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	61.4	58.1	55.5	62.9	65.7	63.7	63.0	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	72.8	63.1	64.0	70.5	66.4	69.8	73.8	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	60.2	59.9	55.7	61.7	56.8	62.0	61.8	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	62.6	62.8	61.6	65.7	61.4	63.1	61.1	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	64.7	64.7	63.7	64.1	62.4	64.7	63.3	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	38.6	35.3	32.8	36.4	39.0	39.5	34.7	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	47.0	45.2	42.7	44.4	46.2	47.4	39.7	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	53.7	49.8	46.8	54.6	51.1	54.8	52.7	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	56.6	51.5	47.4	54.7	52.2	54.4	53.5	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	56.8	53.4	49.6	57.6	53.8	55.8	55.6	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	56.4	53.7	49.1	58.1	52.7	55.1	56.4	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	56.4	54.0	52.7	57.5	54.4	55.1	56.5	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	40.6	36.7	37.9	40.1	39.1	40.2	41.4	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	44.5	42.3	41.8	43.5	46.2	43.9	46.4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	49.1	49.0	49.0	50.2	53.0	53.3	48.9	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	49.8	50.7	51.2	50.4	51.5	52.9	48.6	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	49.4	49.3	48.5	50.7	49.8	50.9	48.6	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	50.4	49.6	49.8	50.5	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	53.0	47.9	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	50.9	48.2	51.1	51.6	49.9	52.5	48.9	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	53.0	47.5	51.4	53.5	52.0	52.4	50.7	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	54.1	52.8	53.6	54.7	55.2	54.1	51.6	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	55.7	55.9	56.1	59.0	57.7	55.8	56.7	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	56.9	55.0	54.9	56.8	55.7	56.4	57.0	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	35.1	32.2	34.4	35.1	35.8	36.4	35.4	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	34.7	28.7	34.8	35.1	31.8	30.4	28.4	ND	ND	ND	ND	ND
55 130th Street, Calumet River	45.6	38.4	40.9	40.5	41.1	42.4	43.0	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	86.4	92.8	64.3	77.0	83.9	75.5	69.2	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	51.5	45.1	44.7	45.7	47.4	51.7	48.5	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	63.3	58.2	60.7	60.4	59.3	60.1	63.1	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	74.3	80.9	70.9	82.2	90.7	87.2	70.1	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	74.9	79.6	66.9	77.3	60.7	79.1	74.1	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	68.0	80.8	78.0	81.3	77.4	85.8	74.7	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	66.1	77.8	68.9	74.3	82.1	80.2	67.7	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	59.6	61.7	63.2	61.9	62.8	63.4	62.9	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	58.3	65.2	61.6	62.8	61.7	62.3	62.6	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	59.4	63.0	60.7	59.9	61.1	60.8	64.0	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	66.6	67.0	60.5	70.9	60.5	72.1	66.9	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	53.2	ND	84.6	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	60.5	63.2	54.8	58.7	53.0	58.2	58.8	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	56.5	61.2	56.7	63.0	52.7	60.3	62.1	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	61.9	60.6	60.1	69.8	53.0	59.0	72.1	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	61.6	61.9	62.7	61.9	56.7	63.8	60.0	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	61.5	62.0	61.9	61.9	57.2	63.5	61.8	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	61.9	60.7	59.7	66.4	56.9	69.6	66.2	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	60.7	59.6	58.2	66.2	55.1	55.4	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	84.9	66.1	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	40.9	52.5	52.2	70.0	46.3	57.1	64.0	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	68.0	66.7	64.0	67.1	61.2	70.5	76.1	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	68.6	70.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	64.4	69.4	63.4	66.9	62.0	70.2	68.8	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	62.6	67.1	62.6	68.1	59.4	68.7	69.1	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	61.6	66.5	62.5	67.8	59.3	68.5	67.8	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	60.4	65.2	60.7	67.6	54.0	69.8	68.1	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	59.5	62.8	58.0	65.6	64.9	69.2	66.2	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	59.4	62.1	59.2	66.9	56.2	66.9	66.6	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	63.2	66.1	62.3	67.1	60.3	70.4	67.3	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	62.4	67.2	61.8	67.1	62.2	70.4	64.6	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	77.6	83.4	72.6	79.9	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-104: SOLUBLE MAGNESIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	28.1	23.9	27.3	33.3	21.6	31.8	34.0	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	29.2	28.7	29.9	26.5	26.0	27.8	30.8	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	28.9	27.0	30.8	28.1	27.6	30.6	30.8	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	26.8	25.5	25.4	26.5	28.0	27.8	29.4	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	30.9	28.3	30.2	30.0	27.9	31.0	31.5	ND	ND	ND	ND
105 Frontage Road, Skokie River	26.0	26.0	25.0	26.1	23.9	27.2	28.8	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	27.0	26.8	27.2	26.9	24.8	27.0	27.2	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	27.8	27.3	27.7	26.4	25.7	27.3	28.8	ND	ND	ND	ND
35 Central Street, North Shore Channel	13.3	11.9	11.3	12.1	13.4	13.8	11.3	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	16.5	15.9	15.2	15.0	15.6	16.4	14.6	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	19.2	18.0	16.8	19.1	18.2	19.9	19.8	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	20.1	18.7	16.9	19.4	18.5	19.7	20.1	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.9	20.1	18.2	20.9	19.4	20.9	21.7	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	20.9	20.0	17.8	21.0	18.8	20.4	22.0	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	20.8	20.1	19.5	20.5	19.4	20.3	21.9	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	14.3	12.6	13.4	14.1	13.1	13.7	14.3	ND	ND	ND	ND
100 Wells Street, Chicago River	15.7	15.0	14.7	15.3	16.0	15.5	17.1	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	17.8	18.2	17.8	17.9	19.1	19.8	18.4	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	18.0	18.8	18.9	18.0	18.1	19.7	17.9	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	17.6	18.1	17.4	18.0	17.5	18.5	17.9	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	18.1	18.4	18.3	18.0	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	19.8	18.1	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.4	17.6	18.8	18.5	17.3	19.6	18.3	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.0	17.6	18.9	19.1	18.1	19.3	19.2	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	19.7	19.5	19.8	19.7	19.5	20.0	19.8	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	20.6	20.7	21.0	21.4	20.4	20.8	21.7	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	21.0	20.3	20.4	20.6	20.1	20.9	22.3	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	11.7	10.5	11.5	11.6	11.9	11.8	11.4	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	11.7	11.3	13.1	13.0	12.2	12.6	11.2	ND	ND	ND	ND
55 130th Street, Calumet River	15.7	13.0	14.2	13.9	13.7	14.5	15.0	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	38.6	47.6	43.0	50.1	62.4	64.5	49.4	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	19.1	16.3	16.7	17.2	17.4	21.2	19.1	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	22.3	20.7	21.7	21.1	20.1	21.5	23.4	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	29.7	32.0	28.6	32.1	35.3	35.5	29.5	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	29.6	34.8	30.2	32.5	24.8	35.9	35.2	ND	ND	ND	ND
97 170th Street, Thorn Creek	27.3	35.7	35.0	35.2	33.5	42.6	36.5	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	25.9	32.8	29.1	30.1	33.3	34.7	30.7	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	21.5	22.4	23.2	22.3	22.8	24.2	23.9	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	20.9	24.1	22.7	23.1	22.2	23.3	24.0	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	21.9	23.6	22.7	22.1	22.2	23.3	24.9	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	30.1	29.5	28.2	32.3	26.4	32.5	32.3	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	19.4	ND	34.8	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	23.0	23.9	20.9	21.8	18.9	22.2	23.7	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	21.8	22.9	21.8	23.3	18.9	23.0	24.5	ND	ND	ND	ND
79 Higgins Road, Salt Creek	26.0	25.4	27.6	29.4	21.2	27.4	34.0	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	24.3	24.3	25.0	23.6	21.8	25.5	24.5	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	24.3	24.4	24.6	23.6	21.4	25.1	25.3	ND	ND	ND	ND
24 Wolf Road, Salt Creek	25.3	24.6	25.3	26.9	21.9	28.6	29.1	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	24.8	24.1	24.6	26.8	21.4	22.9	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	33.6	28.7	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	13.9	17.7	17.8	25.4	14.3	20.1	26.3	ND	ND	ND	ND
78 Wille Road, Higgins Creek	25.3	24.9	24.3	24.7	21.7	26.1	30.4	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	30.2	31.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	29.4	31.7	28.9	30.1	27.1	32.3	32.5	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	28.5	30.3	28.6	30.7	25.6	31.4	33.0	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	27.3	29.0	27.7	30.0	23.8	30.2	31.4	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	27.0	28.4	27.2	30.0	22.3	30.9	31.8	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	25.8	26.7	25.6	28.5	25.3	29.9	30.2	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	26.1	26.8	26.4	29.3	22.9	29.5	30.7	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	27.8	28.4	27.6	29.2	24.6	30.2	30.5	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	27.5	29.1	27.7	29.3	25.5	30.8	29.3	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	28.5	29.9	26.7	29.4	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-105: SOLUBLE SILVER MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	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	0.001	0.001	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.002	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	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	0.001	0.001	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.001	ND	0.000	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.002	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	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	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-106: SOLUBLE ARSENIC MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	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	0.002	0.004	0.004	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.004	0.004	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.000	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.003	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.004	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.002	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.003	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.003	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.006	0.006	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.003	0.004	0.004	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.005	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.002	0.000	0.000	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.003	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.004	0.002	0.002	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	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	0.002	0.002	0.002	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.004	0.001	0.001	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.004	0.002	0.002	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.005	0.002	0.002	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.003	0.004	0.004	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.001	0.000	0.000	0.003	0.001	0.001	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.000	0.000	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.004	0.002	0.002	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	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	0.003	0.005	0.005	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.002	0.006	0.006	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.003	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.003	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-107: SOLUBLE BARIUM MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	0.054	0.042	0.043	0.054	0.034	0.044	0.053	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.046	0.044	0.046	0.042	0.043	0.040	0.040	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.037	0.035	0.034	0.034	0.037	0.036	0.040	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.030	0.028	0.026	0.028	0.033	0.027	0.030	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.042	0.035	0.035	0.040	0.039	0.039	0.040	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.027	0.026	0.025	0.025	0.024	0.025	0.029	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.033	0.033	0.032	0.033	0.032	0.030	0.033	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.035	0.034	0.033	0.032	0.032	0.032	0.033	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.022	0.020	0.019	0.020	0.021	0.022	0.021	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.022	0.020	0.021	0.020	0.021	0.019	0.021	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.022	0.019	0.018	0.019	0.017	0.019	0.019	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.023	0.020	0.018	0.019	0.018	0.018	0.018	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.024	0.022	0.020	0.021	0.020	0.021	0.021	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.023	0.021	0.019	0.021	0.019	0.020	0.022	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.023	0.021	0.020	0.020	0.019	0.019	0.021	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.022	0.021	0.021	0.020	0.021	0.021	0.021	ND	ND	ND	ND
100 Wells Street, Chicago River	0.022	0.021	0.020	0.020	0.020	0.021	0.022	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.022	0.021	0.020	0.019	0.017	0.020	0.021	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.022	0.022	0.021	0.019	0.019	0.020	0.021	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.022	0.021	0.020	0.018	0.017	0.020	0.023	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.022	0.021	0.020	0.019	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.020	0.020	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.022	0.020	0.020	0.019	0.017	0.020	0.020	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.019	0.016	0.016	0.016	0.015	0.017	0.017	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.017	0.016	0.016	0.015	0.016	0.017	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.018	0.018	0.017	0.017	0.017	0.017	0.019	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	0.019	0.018	0.017	0.018	0.017	0.018	0.019	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.020	0.019	0.020	0.020	0.019	0.021	0.022	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.034	0.025	0.030	0.029	0.025	0.024	0.025	ND	ND	ND	ND
55 130th Street, Calumet River	0.030	0.026	0.027	0.027	0.024	0.029	0.031	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.022	0.019	0.016	0.016	0.018	0.017	0.017	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.029	0.026	0.025	0.026	0.023	0.028	0.028	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.021	0.017	0.018	0.018	0.016	0.018	0.022	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.029	0.033	0.028	0.033	0.034	0.032	0.031	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.025	0.029	0.026	0.030	0.024	0.026	0.024	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.028	0.033	0.032	0.034	0.027	0.029	0.028	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.029	0.033	0.029	0.032	0.032	0.030	0.028	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.022	0.019	0.020	0.020	0.018	0.020	0.021	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.021	0.021	0.019	0.021	0.019	0.019	0.021	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.023	0.021	0.019	0.021	0.017	0.020	0.022	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.071	0.085	0.095	0.091	0.071	0.061	0.055	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.035	ND	0.058	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.027	0.027	0.022	0.022	0.024	0.024	0.024	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.026	0.029	0.026	0.026	0.025	0.028	0.029	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.039	0.037	0.041	0.045	0.036	0.035	0.048	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.024	0.028	0.028	0.024	0.027	0.024	0.025	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.024	0.028	0.027	0.024	0.026	0.024	0.027	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.029	0.027	0.025	0.028	0.024	0.028	0.031	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.029	0.027	0.026	0.029	0.025	0.022	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.037	0.032	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.036	0.048	0.049	0.059	0.040	0.048	0.056	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.022	0.021	0.018	0.019	0.018	0.022	0.024	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.039	0.041	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.034	0.038	0.031	0.031	0.031	0.034	0.033	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.035	0.041	0.033	0.033	0.032	0.035	0.035	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.033	0.037	0.031	0.032	0.027	0.033	0.033	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.033	0.037	0.031	0.033	0.027	0.034	0.034	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.031	0.033	0.028	0.031	0.027	0.032	0.033	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.031	0.033	0.029	0.031	0.027	0.031	0.033	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.032	0.034	0.028	0.031	0.028	0.032	0.032	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.032	0.033	0.027	0.030	0.028	0.031	0.031	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.043	0.049	0.044	0.046	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-108: SOLUBLE BORON MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.143	0.126	0.176	0.195	0.132	0.118	0.158	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.149	0.138	0.178	0.130	0.122	0.139	0.139	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.110	0.111	0.163	0.162	0.098	0.101	0.093	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.141	0.133	0.170	0.146	0.130	0.148	0.143	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.115	0.128	0.151	0.123	0.115	0.103	0.098	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.150	0.151	0.175	0.161	0.174	0.167	0.148	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.139	0.135	0.174	0.143	0.159	0.151	0.111	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.139	0.141	0.177	0.141	0.150	0.148	0.129	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.035	0.035	0.030	0.032	0.044	0.030	0.023	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.088	0.109	0.085	0.071	0.081	0.104	0.060	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.186	0.180	0.168	0.158	0.173	0.169	0.196	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.183	0.184	0.164	0.159	0.157	0.158	0.186	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.160	0.162	0.155	0.147	0.148	0.144	0.169	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.166	0.155	0.150	0.148	0.155	0.141	0.160	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.155	0.152	0.161	0.142	0.150	0.146	0.168	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.057	0.055	0.053	0.060	0.050	0.044	0.064	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.070	0.074	0.073	0.082	0.096	0.068	0.081	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.107	0.118	0.126	0.130	0.130	0.125	0.117	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.110	0.121	0.126	0.125	0.118	0.123	0.119	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.114	0.114	0.128	0.125	0.130	0.121	0.121	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.108	0.119	0.126	0.129	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.123	0.115	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.119	0.117	0.126	0.126	0.132	0.130	0.119	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.168	0.161	0.165	0.187	0.176	0.169	0.163	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.212	0.205	0.207	0.236	0.206	0.218	0.189	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.196	0.198	0.201	0.199	0.202	0.211	0.205	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.198	0.209	0.209	0.185	0.186	0.185	0.187	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.042	0.044	0.036	0.030	0.028	0.029	0.037	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.169	0.108	0.142	0.131	0.082	0.088	0.097	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.152	0.103	0.109	0.094	0.065	0.108	0.124	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.528	0.578	0.271	0.403	0.375	0.358	0.327	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.167	0.131	0.111	0.109	0.113	0.145	0.143	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.195	0.218	0.193	0.170	0.177	0.186	0.194	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.228	0.231	0.216	0.220	0.256	0.296	0.185	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.314	0.391	0.252	0.288	0.243	0.327	0.324	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.222	0.290	0.235	0.242	0.230	0.290	0.228	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.200	0.247	0.222	0.196	0.254	0.247	0.198	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.174	0.219	0.199	0.173	0.181	0.208	0.203	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.167	0.214	0.189	0.177	0.184	0.188	0.194	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.168	0.198	0.195	0.165	0.156	0.172	0.195	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.055	0.057	0.061	0.049	0.046	0.041	0.047	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.039	ND	0.068	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.248	0.242	0.267	0.245	0.231	0.262	0.296	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.188	0.186	0.222	0.209	0.204	0.203	0.222	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.084	0.088	0.092	0.081	0.068	0.077	0.090	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.196	0.186	0.192	0.179	0.171	0.185	0.217	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.199	0.190	0.198	0.172	0.164	0.174	0.208	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.183	0.184	0.227	0.175	0.160	0.198	0.182	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.181	0.199	0.254	0.178	0.158	0.227	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.159	0.182	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.089	0.078	0.074	0.077	0.055	0.057	0.103	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.254	0.285	0.341	0.284	0.256	0.306	0.384	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.093	0.099	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.153	0.170	0.211	0.168	0.179	0.162	0.159	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.138	0.151	0.204	0.158	0.165	0.152	0.151	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.152	0.166	0.225	0.168	0.169	0.178	0.169	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.152	0.166	0.230	0.165	0.184	0.189	0.164	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.156	0.184	0.229	0.162	0.182	0.191	0.161	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.158	0.182	0.234	0.165	0.165	0.203	0.161	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.167	0.189	0.235	0.161	0.184	0.182	0.154	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.170	0.196	0.241	0.161	0.195	0.193	0.155	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.076	0.077	0.074	0.110	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data



TABLE AII-109: SOLUBLE CADMIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	0.001	0.001	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.001	0.000	0.000	0.000	0.001	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.001	0.001	0.000	0.000	0.000	0.000	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	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	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.001	0.000	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	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.001	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.001	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	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	0.001	0.001	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.000	0.001	0.000	0.000	0.000	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.001	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.001	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-110: SOLUBLE COPPER MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.004	0.003	0.003	0.009	0.005	0.010	0.010	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.001	0.002	0.002	0.007	0.007	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.001	0.001	0.001	0.007	0.004	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.001	0.002	0.001	0.006	0.004	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.001	0.002	0.001	0.007	0.005	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.001	0.002	0.002	0.001	0.008	0.003	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.001	0.002	0.001	0.006	0.004	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.002	0.001	0.006	0.004	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.006	0.003	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.001	0.001	0.001	0.004	0.002	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.000	0.001	0.001	0.006	0.004	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.002	0.000	0.001	0.001	0.003	0.003	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.001	0.001	0.001	0.006	0.002	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.006	0.002	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.001	0.001	0.003	0.002	0.004	0.003	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.002	0.002	0.002	0.002	0.001	0.004	0.003	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.001	0.001	0.002	0.002	0.004	0.004	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.002	0.002	0.002	0.002	0.005	0.003	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.006	0.004	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.005	0.005	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.002	0.002	0.005	0.005	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.003	0.004	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.001	0.000	0.004	0.003	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.005	0.004	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	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	0.005	0.003	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.001	0.002	0.001	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.006	0.001	0.003	0.003	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.004	0.002	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.001	0.000	0.000	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.003	0.003	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.006	0.003	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.001	0.001	0.002	0.004	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.004	0.003	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.001	0.001	0.004	0.002	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.001	0.000	0.004	0.003	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.001	0.004	0.003	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.004	ND	0.002	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.004	0.003	0.004	0.005	0.004	0.010	0.008	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.003	0.003	0.003	0.003	0.003	0.008	0.006	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.000	0.001	0.003	0.004	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.002	0.002	0.003	0.002	0.009	0.008	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.001	0.002	0.003	0.003	0.002	0.007	0.005	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.002	0.002	0.003	0.003	0.003	0.008	0.005	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	0.001	0.002	0.003	0.003	0.008	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.010	0.006	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.002	0.003	0.007	0.003	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.002	0.002	0.002	0.006	0.005	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.002	0.002	0.006	0.005	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.001	0.001	0.002	0.001	0.005	0.004	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.002	0.002	0.007	0.004	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.001	0.001	0.001	0.007	0.004	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.002	0.002	0.002	0.006	0.006	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.001	0.001	0.002	0.002	0.007	0.004	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.002	0.002	0.007	0.005	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.000	0.001	0.002	0.002	0.008	0.004	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-111: SOLUBLE CHROMIUM MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	0.001	0.001	0.000	0.003	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.001	0.002	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.004	0.002	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.000	0.000	0.000	0.001	0.002	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.000	0.000	0.001	0.001	0.003	0.001	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.004	0.000	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.003	0.000	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.001	0.001	0.002	0.002	0.000	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.000	0.000	0.001	0.001	0.001	0.002	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.000	0.001	0.002	0.003	0.001	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.001	0.001	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.002	0.001	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.002	0.003	0.001	0.002	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.002	0.002	0.001	0.001	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.002	0.003	0.000	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	0.001	0.001	0.001	0.001	0.002	0.002	0.002	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.001	0.006	0.001	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.000	0.000	0.000	0.002	0.004	0.005	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.001	0.000	0.000	0.000	0.001	0.007	0.001	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.000	0.001	0.001	0.002	0.003	0.002	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.003	0.001	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.001	0.001	0.002	0.004	0.001	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.001	0.000	0.001	0.000	0.002	0.003	0.003	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.000	0.000	0.001	0.001	0.007	0.003	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.001	0.000	0.001	0.001	0.007	0.001	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.001	0.000	0.001	0.001	0.005	0.003	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.001	0.001	0.005	0.001	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.001	0.000	0.000	0.001	0.001	0.003	0.002	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.001	ND	0.002	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.001	0.001	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.001	0.001	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.001	0.001	0.004	0.001	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.002	0.001	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.001	0.000	0.001	0.001	0.002	0.001	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.001	0.001	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.001	0.004	0.002	0.004	0.001	0.005	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.001	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.002	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.001	0.001	0.001	0.002	0.001	0.003	0.001	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.001	0.001	0.000	0.001	0.001	0.002	0.003	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.014	0.001	0.025	0.002	0.003	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.004	0.001	0.013	0.002	0.001	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.002	0.001	0.001	0.002	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.001	0.002	0.004	0.001	0.001	0.000	0.001	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.001	0.002	0.002	0.001	0.001	0.001	0.002	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.001	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-112: SOLUBLE IRON MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0.120	0.020	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.055	0.046	0.041	0.042	0.042	0.173	0.099	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.024	0.037	0.029	0.031	0.025	0.123	0.090	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.081	0.063	0.072	0.052	0.070	0.192	0.120	0.185	0.291	0.177	0.206
104 Glenview Road, North Branch Chicago River	0.037	0.033	0.029	0.035	0.045	0.124	0.097	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.060	0.062	0.040	0.052	0.071	0.168	0.115	0.183	0.212	0.178	0.204
105 Frontage Road, Skokie River	0.047	0.026	0.023	0.027	0.036	0.119	0.098	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.042	0.033	0.025	0.035	0.035	0.120	0.083	0.108	0.111	0.108	0.134
96 Albany Avenue, North Branch Chicago River	0.032	0.050	0.027	0.028	0.038	0.120	0.086	0.092	ND	ND	ND
35 Central Street, North Shore Channel	0.015	0.024	0.022	0.040	0.021	0.076	0.042	0.072	0.074	0.070	0.057
102 Oakton Street, North Shore Channel	0.026	0.023	0.025	0.036	0.047	0.075	0.053	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.028	0.031	0.025	0.029	0.026	0.093	0.070	0.041	0.047	0.031	0.042
101 Foster Avenue, North Shore Channel	0.035	0.029	0.030	0.033	0.037	0.107	0.076	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.034	0.032	0.035	0.041	0.038	0.104	0.084	0.055	0.068	0.054	0.063
73 Diversey Parkway, North Branch Chicago River	0.039	0.035	0.036	0.043	0.049	0.108	0.080	0.067	0.073	0.057	0.068
46 Grand Avenue, North Branch Chicago River	0.038	0.033	0.033	0.042	0.048	0.106	0.081	0.058	0.073	0.054	0.072
74 Lake Shore Drive, Chicago River	0.014	0.009	0.008	0.015	0.012	0.055	0.047	0.038	0.034	0.025	0.037
100 Wells Street, Chicago River	0.017	0.014	0.014	0.020	0.021	0.068	0.053	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.024	0.023	0.025	0.031	0.035	0.098	0.076	0.051	0.079	0.067	0.060
108 Loomis Street, South Branch Chicago River	0.024	0.021	0.033	0.032	0.027	0.096	0.079	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.025	0.019	0.019	0.034	0.028	0.105	0.112	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.024	0.021	0.023	0.034	0.030	ND	ND	0.061	0.077	0.073	0.056
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.094	0.065	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.020	0.026	0.022	0.020	0.091	0.073	0.048	0.085	0.064	0.053
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.027	0.027	0.027	0.033	0.029	0.096	0.106	0.045	0.053	0.047	0.050
42 Route 83, Chicago Sanitary & Ship Canal	0.028	0.033	0.028	0.046	0.033	0.100	0.074	0.043	0.053	0.043	0.053
48 Stephen Street, Chicago Sanitary & Ship Canal	0.030	0.033	0.025	0.041	0.031	0.103	0.078	0.056	0.060	0.075	0.063
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.058	0.062	0.123	0.025
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.028	0.031	0.025	0.033	0.030	0.100	0.079	0.048	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.006	0.004	0.004	0.005	0.006	0.044	0.032	0.038	0.028	0.067	0.039
50 Burnham Avenue, Wolf Lake	0.024	0.007	0.008	0.014	0.010	0.050	0.035	0.028	0.030	0.032	0.026
55 130th Street, Calumet River	0.016	0.008	0.007	0.004	0.011	0.054	0.044	0.041	0.037	0.044	0.050
86 Burnham Avenue, Grand Calumet River	0.128	0.034	0.070	0.057	0.052	0.220	0.142	0.248	0.198	0.273	0.181
56 Indiana Avenue, Little Calumet River	0.009	0.007	0.006	0.006	0.013	0.078	0.057	0.053	0.052	0.059	0.084
76 Halsted Street, Little Calumet River	0.030	0.032	0.038	0.038	0.037	0.107	0.082	0.068	0.065	0.059	0.087
52 Wentworth Avenue, Little Calumet River	0.072	0.061	0.082	0.084	0.054	0.155	0.120	0.255	0.232	0.459	0.328
54 Joe Orr Road, Thorn Creek	0.063	0.056	0.078	0.069	0.082	0.191	0.116	0.124	0.083	0.268	0.180
97 170th Street, Thorn Creek	0.051	0.036	0.040	0.049	0.053	0.156	0.121	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.062	0.031	0.046	0.081	0.057	0.136	0.104	0.110	0.145	0.355	0.238
58 Ashland Avenue, Calumet Sag Channel	0.040	0.032	0.032	0.053	0.040	0.112	0.087	0.088	0.090	0.124	0.262
59 Cicero Avenue, Calumet Sag Channel	0.051	0.038	0.029	0.033	0.034	0.102	0.087	0.065	0.084	0.165	0.160
43 Route 83, Calumet Sag Channel	0.073	0.020	0.017	0.020	0.025	0.099	0.087	0.069	0.081	0.123	0.153
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.054	0.050	0.055	0.042	0.057	0.151	0.109	0.127	0.195	0.191	0.403
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.108	ND	0.185	0.249	0.217	0.306	0.305
89 Walnut Lane, West Branch DuPage River	0.061	0.050	0.054	0.054	0.069	0.119	0.096	0.088	0.066	0.059	0.103
64 Lake Street, West Branch DuPage River	0.037	0.037	0.042	0.038	0.049	0.108	0.085	0.148	0.119	0.123	0.198
79 Higgins Road, Salt Creek	0.041	0.027	0.043	0.054	0.095	0.125	0.095	0.183	0.198	0.192	0.295
80 Arlington Heights Road, Salt Creek	0.048	0.039	0.044	0.050	0.055	0.152	0.107	0.116	0.126	0.091	0.119
18 Devon Avenue, Salt Creek	0.044	0.038	0.037	0.050	0.049	0.136	0.111	0.133	0.136	0.093	0.137
24 Wolf Road, Salt Creek	0.036	0.032	0.051	0.032	0.056	0.127	0.094	0.099	0.125	0.075	0.164
109 Brookfield Avenue, Salt Creek	0.037	0.034	0.039	0.035	0.040	0.084	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.184	0.096	0.116	0.121	0.084	0.139
77 Elmhurst Road, Higgins Creek	0.059	0.048	0.052	0.060	0.086	0.123	0.098	0.147	0.259	0.226	0.247
78 Wille Road, Higgins Creek	0.044	0.045	0.046	0.051	0.044	0.134	0.108	0.057	0.048	0.081	0.073
12 Lake-Cook Road, Buffalo Creek	0.036	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.055	0.026	0.027	0.031	0.037	0.127	0.100	0.149	0.166	0.108	0.187
17 Oakton Street, Des Plaines River	0.047	0.035	0.028	0.030	0.032	0.124	0.112	0.158	0.152	0.110	0.218
19 Belmont Avenue, Des Plaines River	0.064	0.031	0.033	0.033	0.034	0.123	0.098	0.126	0.137	0.114	0.185
20 Roosevelt Road, Des Plaines River	0.052	0.027	0.035	0.032	0.040	0.127	0.096	0.167	0.126	0.110	0.165
22 Ogden Avenue, Des Plaines River	0.046	0.035	0.037	0.042	0.046	0.121	0.105	0.132	0.135	0.098	0.164
23 Willow Springs Road, Des Plaines River	0.051	0.046	0.029	0.047	0.033	0.112	0.098	0.121	0.139	0.100	0.146
29 Stephen Street, Des Plaines River	0.035	0.021	0.019	0.039	0.026	0.118	0.110	0.108	0.135	0.097	0.123
91 Material Service Road, Des Plaines River	0.032	0.023	0.020	0.040	0.032	0.120	0.094	0.093	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.217	0.250	0.160	0.155	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-113: SOLUBLE LEAD MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.004	0.002	0.002	0.004	0.002	0.000	0.000	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.003	0.002	0.004	0.001	0.001	0.001	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.002	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.004	0.001	0.005	0.001	0.001	0.000	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.004	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.002	0.003	0.001	0.004	0.002	0.001	0.001	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.003	0.001	0.003	0.001	0.001	0.000	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.003	0.001	0.003	0.001	0.001	0.001	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.002	0.003	0.001	0.003	0.002	0.001	0.002	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.002	0.003	0.001	0.003	0.002	0.001	0.001	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.003	0.001	0.003	0.001	0.001	0.002	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.002	0.003	0.001	0.002	0.002	0.001	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.002	0.004	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.001	0.003	0.002	0.001	0.001	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.003	0.002	0.003	0.002	0.002	0.000	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.001	0.002	0.001	0.002	0.001	0.001	0.000	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.001	0.002	0.001	0.002	0.001	0.001	0.000	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.001	0.003	0.001	0.002	0.001	0.001	0.002	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.002	0.003	0.002	0.003	0.001	0.001	0.000	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.001	0.002	0.002	0.003	0.001	0.001	0.000	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.003	0.001	0.004	0.001	0.001	0.001	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.002	0.003	0.002	0.004	0.001	0.000	0.000	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.003	0.002	0.004	0.001	0.001	0.001	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.001	ND	0.000	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.002	0.004	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.002	0.003	0.002	0.005	0.001	0.001	0.000	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.003	0.003	0.001	0.004	0.002	0.000	0.000	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	0.003	0.001	0.005	0.002	0.003	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.002	0.004	0.002	0.005	0.003	0.000	0.000	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.004	0.002	0.005	0.002	0.001	0.000	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.001	0.004	0.002	0.004	0.001	0.001	0.000	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.003	0.002	0.004	0.001	0.001	0.000	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.002	0.004	0.001	0.004	0.003	0.001	0.000	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.003	0.003	0.002	0.004	0.001	0.002	0.000	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.002	0.004	0.002	0.005	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-114: SOLUBLE NICKEL MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)										
	07	06	05	04	03	02	01	00	99	98	97
<b>Chicago River System</b>											
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	0.001	0.000	0.000	0.000	0.003	0.002	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.001	0.001	0.000	0.003	0.001	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.000	0.000	0.003	0.002	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.003	0.001	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.001	0.001	0.001	0.002	0.003	0.003	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.001	0.001	0.002	0.003	0.004	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.001	0.002	0.002	0.003	0.004	0.005	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.002	0.001	0.003	0.004	0.004	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.002	0.002	0.003	0.004	0.004	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.002	0.002	0.003	0.003	0.005	0.006	0.004	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.002	0.000	0.000	0.001	0.001	0.004	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.000	0.001	0.001	0.003	0.002	0.008	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.002	0.003	0.004	0.005	0.006	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.001	0.002	0.002	0.004	0.004	0.003	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.001	0.002	0.002	0.004	0.004	0.003	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.003	0.003	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.002	0.002	0.003	0.003	0.005	0.003	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	0.004	0.004	0.004	0.005	0.003	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.004	0.005	0.007	0.005	0.007	0.004	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.003	0.004	0.005	0.005	0.006	0.003	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	0.004	0.004	0.004	0.004	0.005	0.005	0.003	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.001	0.000	0.002	0.002	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.002	0.002	0.003	0.002	0.006	0.003	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.002	0.000	0.001	0.001	0.001	0.004	0.001	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.000	0.002	0.001	0.002	0.003	0.001	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.003	0.002	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.004	0.001	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.001	0.002	0.004	0.002	0.001	0.006	0.002	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.002	0.002	0.001	0.002	0.004	0.001	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	0.002	0.001	0.001	0.003	0.001	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	0.003	0.002	0.002	0.003	0.002	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.002	0.001	0.002	0.002	0.002	0.004	0.001	ND	ND	ND	ND
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.001	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.002	0.001	0.002	0.000	0.000	0.003	0.001	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.002	0.002	0.002	0.000	0.000	0.002	0.002	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.003	0.002	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.001	0.002	0.001	0.001	0.003	0.003	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.002	0.001	0.002	0.002	0.000	0.003	0.002	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.002	0.002	0.003	0.004	0.002	0.008	0.003	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	0.002	0.003	0.004	0.002	0.010	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.002	0.004	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.000	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.006	0.007	0.012	0.006	0.004	0.007	0.008	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.003	0.002	0.003	0.004	0.001	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.001	0.000	0.002	0.001	0.002	0.003	0.002	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.002	0.005	0.002	0.003	0.005	0.002	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.004	0.002	0.002	0.005	0.002	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.002	0.003	0.002	0.003	0.006	0.003	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.001	0.002	0.003	0.002	0.003	0.005	0.002	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.002	0.001	0.003	0.002	0.002	0.005	0.002	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.001	0.003	0.002	0.003	0.006	0.002	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-115: SOLUBLE MANGANESE MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.056	0.039	0.059	0.054	0.032	0.034	0.057	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.044	0.041	0.054	0.043	0.037	0.047	0.040	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.124	0.045	0.100	0.071	0.057	0.111	0.050	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.038	0.033	0.054	0.035	0.025	0.023	0.028	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.097	0.051	0.094	0.109	0.065	0.066	0.073	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.021	0.012	0.021	0.020	0.012	0.013	0.027	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.047	0.033	0.044	0.036	0.034	0.032	0.037	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.033	0.031	0.033	0.022	0.025	0.023	0.030	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.009	0.009	0.005	0.010	0.010	0.012	0.013	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.013	0.016	0.011	0.018	0.019	0.013	0.022	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.013	0.009	0.013	0.013	0.010	0.017	0.023	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.015	0.011	0.013	0.016	0.012	0.015	0.010	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.019	0.013	0.018	0.017	0.015	0.018	0.019	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.024	0.018	0.019	0.020	0.021	0.019	0.029	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.039	0.022	0.025	0.028	0.024	0.023	0.026	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.010	0.004	0.011	0.007	0.007	0.009	0.010	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.019	0.010	0.015	0.014	0.016	0.012	0.015	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.024	0.014	0.040	0.020	0.022	0.023	0.019	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.032	0.019	0.028	0.021	0.020	0.023	0.022	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.025	0.019	0.028	0.026	0.024	0.033	0.042	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.024	0.021	0.022	0.021	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.025	0.031	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.019	0.018	0.018	0.020	0.022	0.018	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.018	0.014	0.013	0.013	0.013	0.013	0.015	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.015	0.017	0.018	0.020	0.016	0.022	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.021	0.023	0.028	0.027	0.026	0.024	0.028	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.030	0.026	0.025	0.029	0.026	0.030	0.027	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.010	0.007	0.008	0.008	0.006	0.006	0.007	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.008	0.005	0.008	0.014	0.004	0.006	0.004	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.013	0.011	0.012	0.014	0.005	0.004	0.007	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.131	0.132	0.067	0.083	0.108	0.078	0.057	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.019	0.009	0.012	0.009	0.008	0.011	0.009	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.035	0.025	0.029	0.027	0.026	0.031	0.040	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.096	0.084	0.089	0.114	0.090	0.094	0.089	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.057	0.042	0.060	0.059	0.026	0.054	0.038	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.058	0.051	0.061	0.064	0.046	0.046	0.043	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.081	0.065	0.081	0.083	0.083	0.063	0.058	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.038	0.037	0.039	0.036	0.033	0.043	0.039	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.041	0.040	0.036	0.046	0.033	0.044	0.044	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.042	0.038	0.039	0.057	0.024	0.034	0.043	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.050	0.047	0.077	0.048	0.040	0.057	0.063	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.029	ND	0.093	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.026	0.024	0.034	0.031	0.029	0.048	0.046	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.035	0.037	0.053	0.042	0.037	0.036	0.040	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.033	0.021	0.036	0.044	0.023	0.034	0.041	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.031	0.014	0.024	0.030	0.020	0.018	0.021	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.030	0.017	0.026	0.031	0.021	0.020	0.027	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.032	0.027	0.031	0.035	0.029	0.035	0.034	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.036	0.031	0.035	0.034	0.026	0.023	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.037	0.035	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.067	0.057	0.072	0.091	0.074	0.073	0.099	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.028	0.023	0.016	0.018	0.019	0.022	0.018	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.047	0.043	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.030	0.025	0.036	0.033	0.030	0.029	0.024	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.030	0.032	0.039	0.028	0.025	0.034	0.021	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.032	0.032	0.045	0.035	0.029	0.052	0.032	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.028	0.034	0.039	0.034	0.021	0.050	0.025	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.028	0.026	0.029	0.028	0.033	0.027	0.021	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.028	0.030	0.033	0.052	0.019	0.028	0.021	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.027	0.024	0.022	0.027	0.018	0.021	0.018	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.019	0.020	0.021	0.027	0.019	0.016	0.015	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.093	0.116	0.186	0.092	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-116: SOLUBLE MERCURY MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means ( $\mu\text{g/L}$ )											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0.093	ND	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	0.000	0.080	0.020	0.008	0.000	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0.030	0.075	0.010	0.000	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0.000	ND	0.000	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	0.025	0.000	0.065	0.013	0.000	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	0.045	0.014	0.000	0.032	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	0.000	0.018	0.075	0.012	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	0.000	0.000	0.075	0.058	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	0.000	ND	0.000	0.008	0.000	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	0.000	0.012	ND	0.038	0.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	0.000	0.015	0.000	0.030	0.000	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	0.000	0.023	0.000	0.008	0.000	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	0.080	0.015	0.000	0.000	0.000	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	0.000	0.000	0.027	0.000	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	0.000	0.103	0.000	0.025	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	0.167	0.015	0.090	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	0.000	0.083	0.000	0.030	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	0.050	0.075	0.030	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	0.000	0.000	0.020	0.060	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	0.000	0.000	0.023	0.000	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.010	0.000	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.007	0.033	0.017	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.030	0.000	0.000	0.000	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	0.016	0.087	0.000	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.025	0.002	0.013	0.016	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	ND	ND	ND	0.090	0.000	0.028	0.000	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	0.000	ND	0.000	ND	0.020	0.000	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	0.040	0.085	0.020	0.022	0.026	0.000	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	0.000	ND	ND	0.000	0.020	0.000	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	0.000	ND	0.000	0.000	0.019	0.000	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	0.000	0.000	ND	0.000	0.020	0.000	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	0.070	0.020	0.000	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	0.000	0.000	0.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	0.000	0.000	0.000	0.000	0.018	0.000	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	0.050	ND	0.000	0.070	0.023	0.000	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	0.000	ND	0.043	0.000	0.022	0.000	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	0.000	0.000	ND	0.000	0.028	0.000	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	ND	0.060	0.055	0.000	0.013	0.080	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0.000	0.000	0.007	0.025	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	0.043	0.000	0.003	0.020	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	0.080	0.000	0.000	0.000	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	0.000	0.000	0.000	0.020	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	0.000	0.027	0.070	0.000	0.020	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	0.030	0.020	0.004	0.000	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0.050	0.000	0.005	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	0.020	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0.000	0.000	0.033	0.040	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	0.000	0.000	0.050	0.000	0.005	0.033	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	0.000	0.063	0.045	0.048	0.030	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	0.080	0.080	0.070	0.033	0.020	0.017	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0.030	0.000	0.003	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0.000	0.000	0.015	0.000	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0.025	0.090	0.004	0.025	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	0.000	0.000	0.000	0.018	0.015	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	0.000	ND	0.000	0.005	0.003	0.010	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	0.000	0.100	0.000	0.018	0.010	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	0.000	0.080	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data



TABLE AII-117: SOLUBLE ZINC MEAN HISTORY  
1997 THROUGH 2007

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.028	0.020	0.019	0.029	0.012	0.010	0.035	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.016	0.014	0.011	0.012	0.008	0.012	0.011	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.011	0.012	0.005	0.007	0.004	0.007	0.005	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.017	0.019	0.018	0.019	0.013	0.017	0.014	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.011	0.015	0.011	0.010	0.006	0.009	0.007	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.019	0.022	0.023	0.019	0.022	0.021	0.012	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.017	0.016	0.014	0.017	0.014	0.017	0.011	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.016	0.021	0.015	0.012	0.012	0.017	0.012	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.010	0.010	0.004	0.006	0.006	0.007	0.004	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.022	0.025	0.018	0.015	0.015	0.020	0.009	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.037	0.034	0.029	0.029	0.029	0.032	0.029	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.037	0.034	0.028	0.032	0.027	0.027	0.027	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.032	0.028	0.031	0.025	0.024	0.025	0.024	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.031	0.027	0.024	0.025	0.024	0.025	0.024	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.029	0.029	0.028	0.023	0.026	0.028	0.021	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.016	0.013	0.012	0.013	0.009	0.013	0.015	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.018	0.017	0.014	0.014	0.018	0.014	0.016	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.021	0.021	0.023	0.027	0.023	0.023	0.018	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.025	0.023	0.022	0.022	0.023	0.023	0.017	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.021	0.020	0.017	0.020	0.020	0.019	0.013	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.026	0.024	0.023	0.022	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.023	0.025	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.022	0.021	0.020	0.019	0.021	0.018	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.030	0.024	0.023	0.022	0.023	0.022	0.022	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.029	0.026	0.024	0.028	0.026	0.028	0.022	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.027	0.024	0.022	0.025	0.024	0.025	0.020	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.026	0.027	0.024	0.025	0.024	0.025	0.018	ND	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.009	0.008	0.005	0.011	0.005	0.004	0.004	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.010	0.007	0.004	0.004	0.001	0.004	0.003	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.012	0.017	0.008	0.008	0.003	0.007	0.005	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.019	0.031	0.020	0.021	0.021	0.031	0.024	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.017	0.013	0.009	0.010	0.009	0.015	0.008	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.029	0.026	0.026	0.024	0.031	0.032	0.023	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.013	0.014	0.013	0.014	0.012	0.018	0.010	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.041	0.044	0.032	0.039	0.021	0.036	0.028	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.019	0.021	0.020	0.024	0.023	0.030	0.013	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.016	0.016	0.019	0.016	0.024	0.014	0.010	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.028	0.030	0.036	0.029	0.031	0.024	0.024	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.021	0.025	0.023	0.021	0.019	0.025	0.020	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.024	0.024	0.026	0.022	0.019	0.023	0.017	ND	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.010	0.007	0.005	0.004	0.010	0.007	0.005	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.009	ND	0.014	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.040	0.034	0.036	0.043	0.032	0.036	0.032	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.030	0.029	0.027	0.032	0.027	0.026	0.027	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.009	0.007	0.004	0.007	0.003	0.003	0.002	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.023	0.022	0.021	0.035	0.018	0.019	0.020	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.020	0.018	0.028	0.024	0.018	0.019	0.016	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.021	0.024	0.029	0.025	0.025	0.029	0.019	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.022	0.023	0.026	0.027	0.017	0.025	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.028	0.020	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.011	0.020	0.017	0.021	0.016	0.013	0.012	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.040	0.047	0.062	0.057	0.049	0.048	0.043	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.008	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.015	0.016	0.021	0.019	0.018	0.017	0.013	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.013	0.017	0.019	0.018	0.014	0.016	0.009	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.018	0.022	0.027	0.022	0.025	0.024	0.014	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.017	0.022	0.026	0.021	0.020	0.023	0.011	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.021	0.023	0.024	0.021	0.028	0.022	0.015	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.019	0.021	0.022	0.021	0.017	0.019	0.012	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.021	0.022	0.021	0.022	0.019	0.020	0.012	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.018	0.020	0.018	0.020	0.021	0.018	0.010	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.019	0.015	0.011	0.011	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-118: SOLUBLE SELENIUM MEAN HISTORY  
1997 THROUGH 2007**

Sampling Station (No. Name)	Annual Means (mg/L)											
	07	06	05	04	03	02	01	00	99	98	97	
<b>Chicago River System</b>												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.002	0.011	0.006	0.000	0.007	0.000	0.000	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.002	0.007	0.008	0.005	0.006	0.002	0.000	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.002	0.005	0.005	0.002	0.006	0.002	0.000	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.004	0.006	0.006	0.002	0.004	0.002	0.000	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.003	0.006	0.007	0.004	0.005	0.000	0.000	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.001	0.005	0.005	0.006	0.001	0.000	0.000	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.001	0.008	0.006	0.005	0.005	0.000	0.000	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.002	0.002	0.007	0.007	0.003	0.006	0.000	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.001	0.007	0.005	0.003	0.005	0.000	0.000	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.002	0.001	0.005	0.005	0.001	0.003	0.000	0.000	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.002	0.006	0.005	0.006	0.005	0.000	0.000	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.001	0.007	0.007	0.004	0.004	0.000	0.000	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.002	0.002	0.008	0.006	0.004	0.006	0.002	0.000	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.002	0.006	0.005	0.005	0.004	0.000	0.000	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.001	0.007	0.006	0.005	0.007	0.000	0.000	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.001	0.005	0.005	0.003	0.001	0.000	0.000	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.002	0.003	0.007	0.004	0.002	0.000	0.000	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.001	0.006	0.007	0.002	0.002	0.000	0.000	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.007	0.009	0.005	0.002	0.000	0.000	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.005	0.007	0.004	0.002	0.000	0.000	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.006	0.005	ND	ND	ND	0.000	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.004	0.000	0.000	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.006	0.005	0.004	0.004	0.000	0.000	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.006	0.009	0.003	0.001	0.000	0.000	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.005	0.006	0.002	0.001	0.002	0.000	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.001	0.005	0.006	0.004	0.002	0.005	0.000	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.002	0.005	0.006	0.004	0.005	0.001	0.000	ND	ND	ND	ND
<b>Calumet River System</b>												
49 Ewing Avenue, Calumet River	0.000	0.003	0.005	0.007	0.004	0.002	0.002	0.000	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.004	0.004	0.005	0.003	0.002	0.000	0.000	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.003	0.002	0.004	0.003	0.002	0.000	0.000	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.002	0.006	0.008	0.002	0.005	0.002	0.000	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.002	0.003	0.004	0.003	0.005	0.000	0.000	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.003	0.004	0.005	0.005	0.003	0.000	0.000	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.002	0.004	0.008	0.003	0.003	0.005	0.000	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.003	0.005	0.005	0.008	0.000	0.005	0.000	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.002	0.004	0.005	0.004	0.006	0.004	0.000	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.003	0.004	0.005	0.003	0.005	0.002	0.000	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.002	0.005	0.005	0.005	0.001	0.000	0.000	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.003	0.004	0.007	0.004	0.005	0.004	0.000	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.003	0.004	0.005	0.004	0.005	0.002	0.000	ND	ND	ND	ND
<b>Des Plaines River System</b>												
90 Route 19, Poplar Creek	0.000	0.000	0.005	0.008	0.003	0.006	0.004	0.000	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.000	ND	0.000	0.000	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.005	0.005	0.004	0.003	0.002	0.000	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.002	0.000	0.007	0.004	0.005	0.005	0.000	0.000	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.001	0.005	0.007	0.001	0.006	0.000	0.000	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.001	0.007	0.005	0.002	0.004	0.000	0.000	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.001	0.008	0.005	0.003	0.002	0.000	0.000	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.001	0.006	0.006	0.003	0.008	0.000	0.000	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.005	0.006	0.003	0.011	ND	0.000	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0.005	0.002	0.000	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.009	0.006	0.003	0.002	0.002	0.000	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.006	0.006	0.004	0.006	0.000	0.000	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.006	0.005	0.005	0.010	0.002	0.000	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.002	0.000	0.005	0.008	0.003	0.006	0.004	0.000	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.001	0.006	0.006	0.004	0.005	0.000	0.000	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.005	0.006	0.003	0.006	0.000	0.000	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.002	0.001	0.008	0.007	0.005	0.010	0.002	0.000	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.001	0.006	0.005	0.003	0.005	0.000	0.000	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.001	0.006	0.006	0.002	0.006	0.000	0.000	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.006	0.006	0.003	0.003	0.001	0.000	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0.000	0.001	0.008	0.005	ND	ND	ND	0.000	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 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	0.999	0.926	0.292	0.260	...	...
Temp ( °C)	1.000	0.851	0.374	0.593	...	...
pH	0.996	1.000	0.238	0.000	...	...
Alk (mg/L)	0.464	0.647	0.514	0.032	...	...
Cl (mg/L)	0.220	0.326	0.010	...	0.023	...
Turb (NTU)	0.327	0.998	0.040	...	0.428	...
TKN (mg/L)	0.996	0.957	0.033	0.000	...	...
NH <sub>4</sub> -N (mg/L)	0.533	0.447	0.002	0.001	...	...
NH <sub>3</sub> -N (mg/L)	0.993	0.931	0.010	...	0.002	...
ORG-N (mg/L)	0.958	1.000	0.401	0.000	...	...
NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.875	0.804	0.000	0.000	...	...
TS (mg/L)	0.255	0.293	0.015	...	0.008	...
TSS (mg/L)	0.928	0.675	0.008	...	0.903	...
VSS (mg/L)	0.484	0.661	0.493	0.620	...	...
TDS (mg/L)	0.263	0.292	0.015	...	0.008	...
Phenol (µg/L)	0.042	0.033	0.045	...	...	0.407
SO <sub>4</sub> (mg/L)	0.558	1.000	0.035	...	0.005	...
TP (mg/L)	0.835	0.999	0.000	0.000	...	...
WAD-CN (mg/L)	0.760	0.764	0.267	0.000	...	...
F (mg/L)	0.982	0.827	0.191	0.000	...	...
TOC (mg/L)	0.943	0.873	0.391	0.000	...	...
FC (cfu/100mL)*	1.000	0.981	0.000	0.000	...	...
EColi (cfu/100mL)*	1.000	0.980	0.094	0.001	...	...
Ca (mg/L)	0.476	0.970	0.389	0.001	...	...
Mg (mg/L)	0.377	0.647	0.438	0.002	...	...
Hard (mg/L)	0.599	0.997	0.413	0.002	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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
G. Alpha (pCi/L)	1.000	0.284	0.002	...	0.098	...
G. Beta (pCi/L)	0.674	0.984	0.011	...	0.002	...
Chlrphl ( $\mu\text{g/L}$ )	0.774	0.960	0.000	...	0.085	...
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)	0.919	0.871	0.096	0.729	...	...
B (mg/L)	0.891	0.997	0.043	0.000	...	...
Cd (mg/L)	0.042	0.006	0.321	...	...	0.889
Cu (mg/L)	0.042	0.949	0.006	...	...	0.005
Cr (mg/L)	0.950	0.921	0.077	0.318	...	...
Cr <sup>+6</sup> ( $\mu\text{g/L}$ )	0.042	0.090	0.065	...	...	0.273
Fe (mg/L)	0.882	0.988	0.080	0.124	...	...
Pb (mg/L)	0.473	0.806	0.458	0.259	...	...
Mn (mg/L)	0.808	0.413	0.503	0.308	...	...
Hg ( $\mu\text{g/L}$ )	-	-	-	-	...	...
Zn (mg/L)	0.970	0.559	0.001	0.000	...	...
Se (mg/L)	-	-	-	-	...	...
Sol. Ca (mg/L)	0.583	0.998	0.409	0.009	...	...
Sol. Mg (mg/L)	0.439	0.963	0.409	0.010	...	...
Sol. Ag (mg/L)	-	-	-	-	...	...
Sol. As (mg/L)	-	-	-	-	...	...
Sol. Ba (mg/L)	0.742	0.978	0.132	0.957	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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. B (mg/L)	0.445	1.000	0.087	0.000	...	...
Sol. Cr (mg/L)	0.521	0.818	0.288	0.479	...	...
Sol. Fe (mg/L)	0.766	0.892	0.034	...	0.013	...
Sol. Pb (mg/L)	0.204	0.896	0.367	0.193	...	...
Sol. Ni (mg/L)	0.042	0.566	0.000	...	...	0.047
Sol. Mn (mg/L)	0.947	0.331	0.462	0.079	...	...
Sol. Zn (mg/L)	0.965	0.999	0.113	0.000	...	...

<sup>1</sup>Significance probabilities  $\leq 0.05$  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 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	0.995	0.675	0.316	0.543	...	...
Temp ( °C)	0.999	0.998	0.181	0.190	...	...
pH	0.876	0.852	0.489	0.729	...	...
Alk (mg/L)	0.735	0.948	0.461	0.540	...	...
Cl (mg/L)	0.582	0.537	0.304	0.737	...	...
Turb (NTU)	0.985	1.000	0.077	0.073	...	...
TKN (mg/L)	1.000	0.386	0.014	...	0.377	...
NH <sub>4</sub> -N (mg/L)	0.718	0.923	0.242	0.830	...	...
NH <sub>3</sub> -N (mg/L)	0.620	0.925	0.086	0.309	...	...
ORG-N (mg/L)	0.982	0.424	0.004	...	0.125	...
NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.789	0.963	0.025	...	0.010	...
TS (mg/L)	0.774	0.457	0.186	0.581	...	...
TSS (mg/L)	0.948	0.826	0.006	...	0.690	...
VSS (mg/L)	0.795	0.775	0.207	0.577	...	...
TDS (mg/L)	0.776	0.482	0.178	0.578	...	...
Phenol (µg/L)	0.192	0.030	0.101	...	...	0.363
SO <sub>4</sub> (mg/L)	0.947	0.745	0.243	0.005	...	...
TP (mg/L)	0.996	0.526	0.028	...	0.209	...
CN (mg/L)	0.006	0.109	0.039	...	...	0.003
WAD-CN (mg/L)	0.979	0.802	0.417	0.399	...	...
F (mg/L)	0.823	1.000	0.186	0.009	...	...
TOC (mg/L)	1.000	0.992	0.320	0.091	...	...
FC (cfu/100mL)*	0.229	0.774	0.070	0.003	...	...
EColi (cfu/100mL)*	0.919	0.991	0.255	0.511	...	...
Ca (mg/L)	0.855	0.918	0.362	0.527	...	...
Mg (mg/L)	0.782	0.807	0.303	0.608	...	...

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	0.815	0.856	0.325	0.551	...	...
G. Alpha (pCi/L)	0.273	0.064	0.073	0.645	...	...
G. Beta (pCi/L)	0.997	0.972	0.211	0.122	...	...
Chlrphl ( $\mu$ g/L)	0.923	0.643	0.010	...	0.045	...
Bzn ( $\mu$ g/L)	-	-	-	-	-	-
Ebnzn ( $\mu$ g/L)	-	-	-	-	-	-
Toln ( $\mu$ g/L)	-	-	-	-	-	-
Xyln ( $\mu$ g/L)	-	-	-	-	-	-
Ag (mg/L)	0.006	0.021	0.335	...	...	0.581
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.917	0.931	0.324	0.227	...	...
B (mg/L)	1.000	0.956	0.226	0.003	...	...
Cd (mg/L)	0.016	0.013	0.068	...	...	0.964
Cu (mg/L)	0.992	0.783	0.021	...	0.209	...
Cr (mg/L)	0.476	0.574	0.423	0.844	...	...
Cr <sup>+6</sup> ( $\mu$ g/L)	0.184	0.013	0.026	...	...	0.158
Fe (mg/L)	0.893	0.449	0.008	...	0.324	...
Pb (mg/L)	0.990	0.896	0.319	0.410	...	...
Ni (mg/L)	0.635	0.262	0.458	0.002	...	...
Mn (mg/L)	0.174	1.000	0.018	...	0.672	...
Hg ( $\mu$ g/L)	0.006	0.006	0.177	...	...	1.000
Zn (mg/L)	0.289	0.996	0.057	0.983	...	...
Se (mg/L)	-	-	-	-	...	...
Sol. Ca (mg/L)	0.869	0.948	0.381	0.650	...	...
Sol. Mg (mg/L)	0.797	0.910	0.329	0.721	...	...
Sol. Ag (mg/L)	-	-	-	-	...	...



TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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. As (mg/L)	-	-	-	-	...	...
Sol. Ba (mg/L)	0.967	1.000	0.352	0.265	...	...
Sol. B (mg/L)	1.000	1.000	0.408	0.001	...	...
Sol. Cd (mg/L)	0.301	0.098	0.322	0.775	...	...
Sol. Cr (mg/L)	0.836	0.812	0.197	0.410	...	...
Sol. Fe (mg/L)	0.994	1.000	0.041	...	0.059	...
Sol. Pb (mg/L)	0.398	0.075	0.428	0.586	...	...
Sol. Ni (mg/L)	0.904	0.988	0.227	0.004	...	...
Sol. Mn (mg/L)	0.953	0.970	0.058	0.653	...	...
Sol. Zn (mg/L)	1.000	1.000	0.249	0.675	...	...
Sol. Se (mg/L)	-	-	-	-	...	...

<sup>1</sup>Significance probabilities  $\leq 0.05$  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 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	1.000	0.996	0.036	...	0.154	...
Temp ( °C)	0.977	0.880	0.369	0.678	...	...
pH	0.985	1.000	0.148	0.025	...	...
Alk (mg/L)	0.944	0.736	0.139	0.126	...	...
Cl (mg/L)	0.991	0.336	0.011	...	0.233	...
Turb (NTU)	1.000	0.994	0.005	...	0.003	...
TKN (mg/L)	0.998	0.389	0.425	0.336	...	...
NH <sub>4</sub> -N (mg/L)	0.459	0.995	0.001	...	0.905	...
NH <sub>3</sub> -N (mg/L)	0.862	1.000	0.001	...	0.227	...
ORG-N (mg/L)	0.974	0.517	0.345	0.214	...	...
NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.962	0.975	0.040	0.000	...	...
TS (mg/L)	0.820	0.865	0.221	0.154	...	...
TSS (mg/L)	0.961	1.000	0.020	...	0.015	...
VSS (mg/L)	0.514	0.526	0.247	0.288	...	...
TDS (mg/L)	0.826	0.885	0.219	0.135	...	...
Phenol (µg/L)	0.197	0.145	0.102	0.495	...	...
SO <sub>4</sub> (mg/L)	0.679	0.990	0.009	...	0.897	...
FOG (mg/L)	-	-	-	-	...	...
TP (mg/L)	0.756	0.959	0.089	0.000	...	...
CN (mg/L)	0.090	0.475	0.145	0.062	...	...
WAD-CN (mg/L)	1.000	0.303	0.394	0.141	...	...
F (mg/L)	0.649	0.999	0.292	0.004	...	...
TOC (mg/L)	0.909	0.786	0.026	...	0.218	...
FC (cfu/100mL)*	0.553	0.865	0.004	0.000	...	...
EColi (cfu/100mL)*	1.000	0.995	0.002	...	0.011	...
Ca (mg/L)	0.985	0.980	0.403	0.112	...	...

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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
Mg (mg/L)	0.934	0.999	0.242	0.293	...	...
Hard (mg/L)	0.961	0.948	0.330	0.166	...	...
G. Alpha (pCi/L)	1.000	1.000	0.468	0.669	...	...
G. Beta (pCi/L)	0.999	0.986	0.425	0.461	...	...
Chlrphl ( $\mu$ g/L)	0.803	0.198	0.472	0.168	...	...
Bnzn ( $\mu$ g/L)	-	-	-	-	-	-
Ebnzn ( $\mu$ g/L)	-	-	-	-	-	-
Toln ( $\mu$ g/L)	-	-	-	-	-	-
Xyln ( $\mu$ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	...	...
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.986	1.000	0.013	...	0.002	...
B (mg/L)	0.911	1.000	0.002	...	0.458	...
Cd (mg/L)	0.114	0.028	0.138	...	...	0.828
Cu (mg/L)	0.936	0.337	0.002	...	0.054	...
Cr (mg/L)	0.105	0.885	0.006	...	0.530	...
Cr <sup>+6</sup> ( $\mu$ g/L)	0.169	0.165	0.153	0.477	...	...
Fe (mg/L)	0.999	0.901	0.046	...	0.011	...
Pb (mg/L)	0.595	0.021	0.000	...	...	0.159
Ni (mg/L)	0.876	0.735	0.043	...	0.130	...
Mn (mg/L)	0.828	0.075	0.000	...	0.435	...
Hg ( $\mu$ g/L)	-	-	-	-	...	...
Zn (mg/L)	1.000	0.577	0.091	0.151	...	...
Se (mg/L)	-	-	-	-	...	...
Sol. Ca (mg/L)	0.960	0.987	0.427	0.128	...	...
Sol. Mg (mg/L)	0.813	0.999	0.284	0.293	...	...

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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. Ag (mg/L)	-	-	-	-	...	...
Sol. As (mg/L)	-	-	-	-	...	...
Sol. Ba (mg/L)	0.983	0.997	0.029	...	0.006	...
Sol. B (mg/L)	0.920	0.999	0.004	...	0.490	...
Sol. Cd (mg/L)	0.443	0.140	0.000	...	0.352	...
Sol. Cr (mg/L)	0.984	0.767	0.309	0.728	...	...
Sol. Fe (mg/L)	0.947	0.970	0.320	0.004	...	...
Sol. Pb (mg/L)	0.160	0.100	0.474	0.810	...	...
Sol. Ni (mg/L)	0.837	0.968	0.188	0.621	...	...
Sol. Mn (mg/L)	0.999	0.183	0.004	...	0.226	...
Sol. Zn (mg/L)	1.000	0.912	0.118	0.019	...	...
Sol. Se (mg/L)	-	-	-	-	...	...

<sup>1</sup>Significance probabilities  $\leq 0.05$  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 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	0.966	0.759	0.101	0.300	...	...
Temp ( °C)	0.995	0.915	0.422	0.825	...	...
pH	0.985	0.998	0.087	0.135	...	...
Alk (mg/L)	0.933	0.998	0.194	0.136	...	...
Cl (mg/L)	0.777	0.888	0.227	0.180	...	...
Turb (NTU)	0.999	0.991	0.133	0.000	...	...
TKN (mg/L)	0.996	1.000	0.011	...	0.100	...
NH <sub>4</sub> -N (mg/L)	0.577	0.997	0.033	...	0.607	...
NH <sub>3</sub> -N (mg/L)	0.716	0.201	0.125	0.334	...	...
ORG-N (mg/L)	1.000	1.000	0.003	...	0.147	...
NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	0.934	0.986	0.000	0.000	...	...
TS (mg/L)	0.994	0.978	0.086	0.199	...	...
TSS (mg/L)	0.981	1.000	0.103	0.000	...	...
VSS (mg/L)	1.000	0.826	0.165	0.000	...	...
TDS (mg/L)	0.996	0.994	0.081	0.256	...	...
Phenol (µg/L)	0.291	0.014	0.090	...	...	0.273
SO <sub>4</sub> (mg/L)	1.000	1.000	0.033	...	0.209	...
TP (mg/L)	0.574	0.176	0.000	...	0.127	...
CN (mg/L)	0.084	0.187	0.011	...	0.936	...
WAD-CN (mg/L)	0.998	0.833	0.195	0.155	...	...
F (mg/L)	0.989	1.000	0.002	0.001	...	...
TOC (mg/L)	0.989	0.991	0.337	0.022	...	...
FC (cfu/100mL)*	0.997	0.981	0.013	...	0.805	...
EColi (cfu/100mL)*	1.000	1.000	0.286	0.718	...	...
Ca (mg/L)	0.989	0.981	0.163	0.888	...	...
Mg (mg/L)	0.999	0.843	0.043	...	0.488	...

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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	0.898	0.103	0.694	...	...
G. Alpha (pCi/L)	0.507	0.774	0.267	0.718	...	...
G. Beta (pCi/L)	0.944	0.958	0.301	0.217	...	...
Chlrphl ( $\mu$ g/L)	0.985	0.954	0.003	...	0.014	...
Bzn ( $\mu$ g/L)	-	-	-	-	-	-
Ebnzn ( $\mu$ g/L)	-	-	-	-	-	-
Toln ( $\mu$ g/L)	-	-	-	-	-	-
Xyln ( $\mu$ g/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.991	0.999	0.254	0.000	...	...
B (mg/L)	0.999	0.953	0.000	0.003	...	...
Cd (mg/L)	-	-	-	-	...	...
Cu (mg/L)	0.573	0.563	0.200	0.939	...	...
Cr (mg/L)	0.998	0.988	0.048	...	...	0.001
Cr <sup>+6</sup> ( $\mu$ g/L)	0.022	0.006	0.381	...	...	0.947
Fe (mg/L)	0.840	0.999	0.108	0.000	...	...
Pb (mg/L)	0.729	0.834	0.121	0.216	...	...
Ni (mg/L)	0.386	0.675	0.010	...	0.187	...
Mn (mg/L)	0.939	1.000	0.307	0.000	...	...
Hg- (ng/L)	0.601	0.113	0.005	...	0.113	...
Zn (mg/L)	0.773	0.073	0.000	...	0.260	...
Se (mg/L)	-	-	-	-	...	...
Sol. Ca (mg/L)	0.939	1.000	0.145	0.964	...	...
Sol. Mg (mg/L)	1.000	0.787	0.054	0.555	...	...
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 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	1.000	0.998	0.255	0.001	...	...
Sol. B (mg/L)	0.858	0.929	0.000	0.004	...	...
Sol. Cd (mg/L)	0.474	0.359	0.317	0.708	...	...
Sol. Cu (mg/L)	0.022	0.611	0.478	...	...	0.055
Sol. Cr (mg/L)	0.953	0.332	0.338	0.216	...	...
Sol. Fe (mg/L)	0.976	1.000	0.144	0.561	...	...
Sol. Pb (mg/L)	0.714	0.941	0.154	0.541	...	...
Sol. Ni (mg/L)	0.276	0.446	0.000	...	0.090	...
Sol. Mn (mg/L)	0.680	0.326	0.295	0.856	...	...
Sol. Zn (mg/L)	0.998	0.806	0.006	...	...	0.002
Sol. Se (mg/L)	-	-	-	-	...	...

<sup>1</sup>Significance probabilities  $\leq 0.05$  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 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	0.952	0.956	0.020	...	0.941	...
Temp ( °C)	0.998	0.976	0.047	...	0.677	...
pH	1.000	1.000	0.397	0.290	...	...
Alk (mg/L)	0.998	0.994	0.285	0.032	...	...
Cl (mg/L)	1.000	0.554	0.528	0.865	...	...
Turb (NTU)	1.000	0.665	0.008	...	0.010	...
TKN (mg/L)	1.000	1.000	0.227	0.001	...	...
NH <sub>4</sub> -N (mg/L)	0.898	0.989	0.341	0.089	...	...
NH <sub>3</sub> -N (mg/L)	0.693	1.000	0.240	0.496	...	...
ORG-N (mg/L)	1.000	0.999	0.265	0.001	...	...
NO <sub>2</sub> + NO <sub>3</sub> (mg/L)	1.000	0.965	0.000	0.000	...	...
TS (mg/L)	1.000	0.924	0.260	0.296	...	...
TSS (mg/L)	1.000	0.991	0.021	...	0.019	...
VSS (mg/L)	0.871	0.954	0.547	0.248	...	...
TDS (mg/L)	1.000	0.835	0.257	0.239	...	...
SO <sub>4</sub> (mg/L)	1.000	0.986	0.449	0.000	...	...
TP (mg/L)	1.000	0.997	0.000	...	0.001	...
WAD-CN (mg/L)	0.988	0.641	0.005	...	0.071	...
F (mg/L)	1.000	1.000	0.051	0.001	...	...
TOC (mg/L)	1.000	0.959	0.477	0.545	...	...
FC (cfu/100mL)*	1.000	0.505	0.340	0.167	...	...
EColi (cfu/100mL)*	1.000	0.958	0.254	0.345	...	...
Ca (mg/L)	1.000	0.852	0.332	0.006	...	...
Mg (mg/L)	1.000	1.000	0.534	0.006	...	...
Hard (mg/L)	1.000	0.911	0.384	0.006	...	...
G. Alpha (pCi/L)	0.998	1.000	0.435	0.893	...	...



TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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
G. Beta (pCi/L)	0.998	1.000	0.011	...	0.000	...
Chlrphl ( $\mu\text{g/L}$ )	0.999	0.608	0.006	...	0.101	...
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	0.925	0.100	0.009	...	...
B (mg/L)	0.951	1.000	0.298	0.001	...	...
Cd (mg/L)	-	-	-	-	...	...
Cu (mg/L)	1.000	0.173	0.109	0.001	...	...
Cr (mg/L)	1.000	0.997	0.001	...	0.143	...
Cr <sup>+6</sup> ( $\mu\text{g/L}$ )	0.491	0.006	0.113	...	...	0.572
Fe (mg/L)	1.000	0.397	0.020	...	0.006	...
Pb (mg/L)	1.000	0.925	0.189	0.024	...	...
Ni (mg/L)	0.988	0.850	0.138	0.049	...	...
Mn (mg/L)	1.000	0.251	0.010	...	0.045	...
Hg ( $\mu\text{g/L}$ )	0.491	0.006	0.355	...	...	0.638
Hg- (ng/L)	0.826	0.487	0.384	0.013	...	...
Zn (mg/L)	1.000	0.983	0.512	0.062	...	...
Se (mg/L)	-	-	-	-	...	...
Sol. Ca (mg/L)	1.000	1.000	0.275	0.007	...	...
Sol. Mg (mg/L)	1.000	1.000	0.362	0.007	...	...
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 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2007

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ ) <sup>1</sup>					
	$H_0$ :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)	1.000	0.934	0.048	...	0.128	...
Sol. B (mg/L)	0.865	1.000	0.370	0.001	...	...
Sol. Cd (mg/L)	0.867	0.286	0.391	0.769	...	...
Sol. Cu (mg/L)	0.491	0.006	0.113	...	...	0.572
Sol. Cr (mg/L)	1.000	0.998	0.193	0.687	...	...
Sol. Fe (mg/L)	1.000	0.993	0.065	0.026	...	...
Sol. Pb (mg/L)	0.867	0.092	0.282	0.655	...	...
Sol. Ni (mg/L)	0.979	0.997	0.021	...	0.002	...
Sol. Mn (mg/L)	0.991	0.581	0.001	...	0.195	...
Sol. Zn (mg/L)	1.000	0.848	0.029	0.000	...	...
Sol. Se (mg/L)	-	-	-	-	...	...

<sup>1</sup>Significance probabilities  $\leq 0.05$  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.