

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 07-38

2006 ANNUAL SUMMARY REPORT

**WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

June 2007

Metropolitan Water Reclamation District of Greater Chicago
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2006 ANNUAL SUMMARY REPORT
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

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Parameter	Sample Mean during 2006	Violation History through 2006	Mean History through 2006
	Page	Page	Page
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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 2006	Violation History through 2006	Mean History through 2006
	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
Total Iron	AII-11	AII-46	AII-111

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Parameter	Sample Mean during 2006	Violation History through 2006	Mean History through 2006
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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
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*Due to Human Health Standard in General Use Waters

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DISCLAIMER

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

SUMMARY AND CONCLUSIONS

Surface water quality data gathered by the Metropolitan Water Reclamation District of Greater Chicago (District) for the waterway systems within its jurisdiction have been evaluated for compliance with the Illinois Pollution Control Board (IPCB) water quality standards for the year 2006. In addition, the District compared these data with data for 2005.

Compliance with Water Quality Standards During 2006

General Use Waters. Thirty-one out of 67 water quality parameters assayed had applicable 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) had IPCB Human Health Standards. Water sample points were located throughout the five 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-one water quality parameters were in total compliance with the standards in all river systems. They were ammonium nitrogen, phenols, weak acid dissociable cyanide, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble lead, soluble nickel, and soluble zinc. benzene had total compliance with the Human Health Standard in all river systems.

Of the remaining nine parameters, seven parameters (dissolved oxygen, temperature, pH, chloride, sulfate, fluoride, and total hexavalent chromium) had compliance rates greater than 85.0 percent in all River Systems. Total dissolved solids had compliance rates of 89.8, 77.5, and 83.9 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems. Fecal coliform had the lowest compliance rate in the range of 35.4 to 55.2 percent in all river systems. The compliance rates for total mercury due to Human Health Standard were 81.8, 83.1, and 84.2 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems.

A comparison of 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 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 increased from 87.3 percent in 2005 to 96.2 percent in 2006, the compliance rate for pH significantly increased from 89.8 percent in 2005 to total compliance in 2006, the compliance rate for total dissolved solids significantly increased from 80.5 percent in 2005 to 89.8 percent in 2006, and the compliance rate for total mercury significantly increased from 70.6 percent in 2005 to 81.8 percent in 2006. In the Calumet River System, the compliance rate for dissolved oxygen significantly increased from 81.6 percent in 2005 to 97.2 percent in 2006.

Comparison of data for Human Health Standards indicated that there was no significant difference between 2006 and 2005 compliance rates except for total mercury. Only in the Chicago River System, the compliance rate for total mercury significantly increased from 70.6 percent in 2005 to 81.8 percent in 2006.

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 2006 had applicable 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 .

Nineteen parameters were in complete compliance with the IPCB standards in the Chicago and Calumet River Systems in 2006. They were temperature; 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 lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron .

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

A comparison of 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 compliance rates with water quality standards except for pH. In the Calumet River System, the compliance rate for pH significantly increased from 94.2 percent in 2005 to total compliance in 2006.

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 2005. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2006.

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 and supportive of 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.

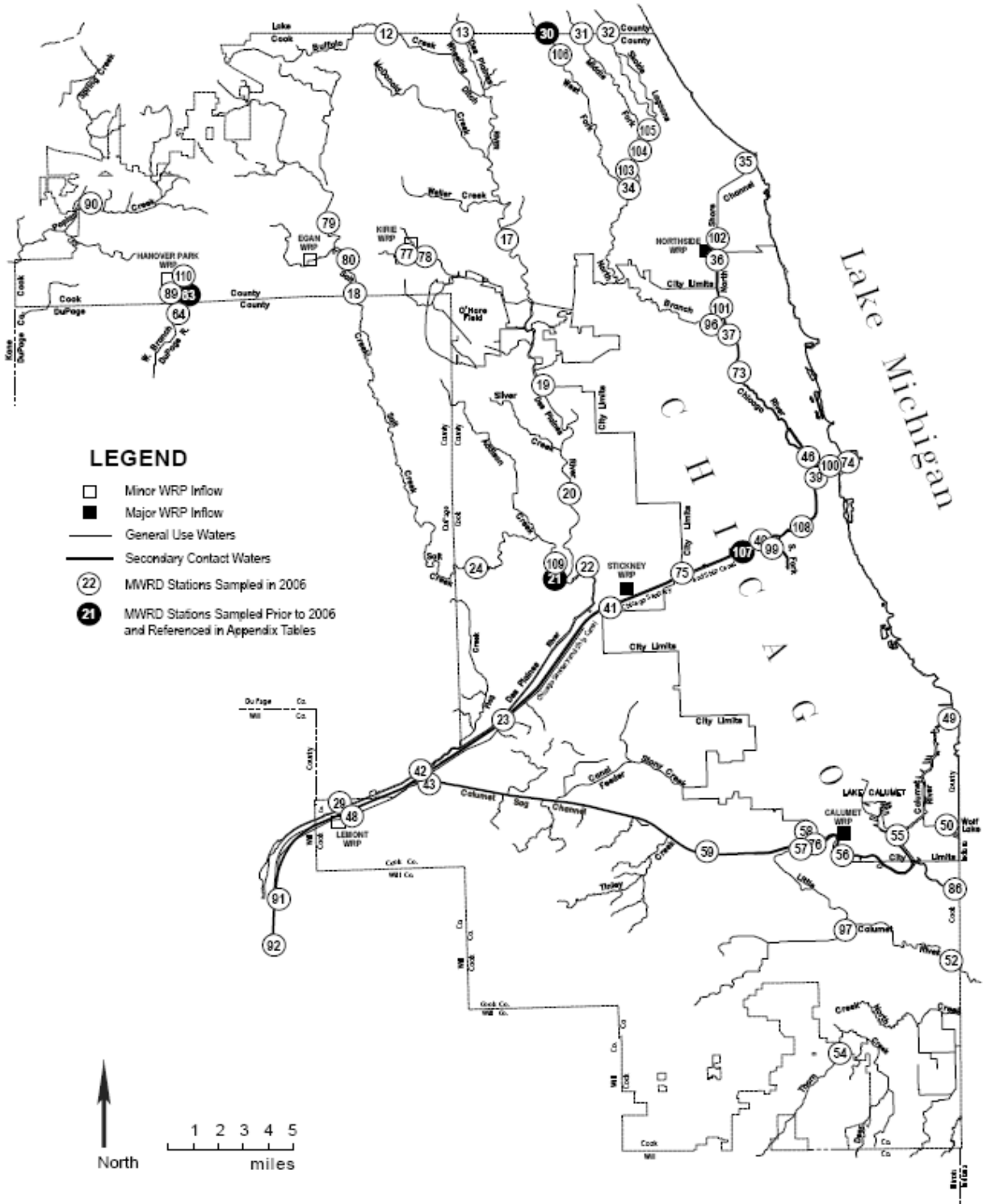
Water Use Designations. IPCB Regulations, Section 303.201, specify that "Except as otherwise specifically provided, all waters of the State must meet the General Use standards for Subpart B of Part 302." Section 303.441 delineates those waters which do not qualify for General Use but "... are designated as Secondary Contact and Indigenous Aquatic Life Waters (Secondary Contact Waters) and must meet the water quality standards of Subpart D, Part 302." 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 2006 and sampling stations are listed in Tables AI-1 and AI-2, respectively.

Summary water quality results for 2006 are listed in Appendix II. 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 2006 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 II) were designed to present the mean values of various parameters for 1993 through 2005, with the 2006 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 2006. 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 2006 is shown in Table 1. Note, that samples taken in the West Branch of the DuPage 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 2006 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 4

TABLE 1: TOTAL NUMBER OF WATERWAYS (BRIDGE RUNS) SAMPLES
COLLECTED MONTHLY DURING 2006

Month	River System		
	Chicago	Calumet	Des Plaines
January	29	13	19
February	24	13	17
March	28	12	19
April	27	13	20
May	28	13	20
June	27	13	18
July	29	12	20
August	28	13	18
September	29	13	20
October	30	13	20
November	28	13	19
December	27	0	18

locations in the DuPage 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 2006 are a subset, are listed in Table AI-2, Appendix A1.

Water Assays and Water Quality Criteria

The District's laboratories performed 67 types of analyses on water samples taken in District waterways during 2006. 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 the said 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 water quality standards for chromium are specified separately for the trivalent and hexavalent oxidation states. Prior to 2003, the District did not differentiate between oxidation states when assaying for chromium because of the highly reactive nature of the total hexavalent

TABLE 2: WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2006¹

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

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2006¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Total Phosphorus	NAS*		NAS*	
Total Cyanide	NAS*		0.1 mg/L	302.409
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	302.208	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*	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2006¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Total Hexavalent Chromium	16 µg/L	302.208	300 µg/L	302.407
Total Iron	NAS*		2 mg/L	302.407
Total Lead	NAS*		0.1 mg/L	302.407
Total Nickel	NAS*		1 mg/L	302.407
Total Manganese	1 mg/L	302.208	1 mg/L	302.407
Total Mercury**	0.012 µg/L	302.208	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 ⁹	302.208	NAS*	
Soluble Copper	mg/L ¹⁰	302.208	NAS*	
Soluble Chromium	mg/L ¹¹	302.208	NAS*	
Soluble Iron	1 mg/L	302.208	0.5 mg/L	302.407
Soluble Lead	mg/L ¹²	302.208	NAS*	
Soluble Nickel	mg/L ¹³	302.208	NAS*	
Soluble Manganese	NAS*		NAS*	
Soluble Mercury	2.21 µg/L	302.208	NAS*	
Soluble Zinc	mg/L ¹⁴	302.208	NAS*	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2006¹

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

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

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

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

⁴Section Number from 1 above.

⁵Water Quality Standard 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).

⁶Calumet-Sag Channel only.

⁷The 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.

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

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

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

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

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

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

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

*NAS = No Applicable Standard.

** = Human Health Standard.

TABLE 3: ILLINOIS POLLUTION CONTROL BOARD (IPCB)
WATER QUALITY STANDARDS AND CORRESPONDING
DISTRICT'S INTERPRETATIONS FOR 2006

Parameter	Water Use Designation	IPCB Standard	District Interpreted Standard
1. Dissolved Oxygen	General Use Waters	≥ 6.0 mg/L at least 16 hours/day	≥ 5.0 mg/L anytime
	Secondary Contact Waters	≥ 5.0 mg/L at least 16 hours/day ≥ 4.0 mg/L anytime	≥ 4.0 mg/L anytime
	(Calumet Sag Channel effective 5/19/88)	≥ 3.0 mg/L anytime	≥ 3.0 mg/L anytime
2. Temperature	Secondary Contact Waters	≤ 34.0 °C, 95% of the time	≤ 37.8 °C
		≤ 37.8 °C, 100% of the time	anytime
3. Fecal Coliform	General Use Waters	Based on a minimum of five samples in a 30-day period geometric mean ≤ 200 cfu/100 mL; ≤ 400 cfu/100 mL in 90% of the samples	≤ 400 cfu/100 mL anytime

chromium, but reported the results as total chromium (trivalent plus hexavalent), and applied the IPCB numerical limit for total trivalent chromium to the measured total chromium concentrations. However, since January 2003, the District assays for total chromium, total hexavalent chromium and soluble chromium. The 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.

Starting from January 2003, the IPCB also dropped the water quality standards of 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 are 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 2006 is shown in [Table 4](#). Of the five river systems sampled during 2006, 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 2006 was once per month at most locations. [Table 4](#) shows the frequency of sampling at all General Use locations in 2006.

River System Compliance Data

In the General Use Waters sampled during 2006, 31 parameters were covered by the State of Illinois Water Quality Standards. Two parameters, benzene and total mercury, had 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 21 parameters which were in 100 percent compliance in all river systems were ammonium nitrogen, phenols, weak acid dissociable cyanide, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, 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 River System. However, soluble mercury had total compliance in the Calumet and Des Plaines River Systems. One parameter, benzene, was in total compliance due to the Human Health Standard in all river systems.

The 9 water quality parameters and 1 Human Health parameter which were in less than complete compliance in 2006 are shown in [Table 5](#). The percent compliance of 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 2006.

TABLE 4: LOCATIONS SAMPLED AND ANNUAL SAMPLING
 FREQUENCIES OF GENERAL USE WATERS IN 2006

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
106	Dundee Road, West Fork North Branch Chicago River	5
103	Golf Road, West Fork North Branch Chicago River	12
31	Lake-Cook Road, Middle Fork North Branch	11
104	Glenview Road, North Branch Chicago River	12
32	Lake-Cook Road, Skokie River	12
105	Frontage Road, Skokie River	12
34	Dempster Street, North Branch Chicago River	12
96	Albany Avenue, North Branch Chicago River	12
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	12
		<u>132</u>
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	11
50	Burnham Avenue, Wolf Lake	11
55	130th Street, Calumet River	11
52	Wentworth Avenue, Little Calumet River	11
54	Joe Orr Road, Thorn Creek	9
97	170th Street, Thorn Creek	11
57	Ashland Avenue, Little Calumet River	11
		<u>75</u>
<u>Des Plaines River System</u>		
79	Higgins Road, Salt Creek	9
80	Arlington Heights Road, Salt Creek	12
18	Devon Avenue, Salt Creek	12
24	Wolf Road, Salt Creek	12
109	Brookfield Avenue, Salt Creek	12
77	Elmhurst Road, Higgins Creek	7
78	Wille Road, Higgins Creek	12

TABLE 4 (Continued): LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF GENERAL USE WATERS IN 2006

Map No. ¹	Station Name	Annual No. of Samples
<u>Des Plaines River System (Continued)</u>		
12	Lake-Cook Road, Buffalo Creek	9
13	Lake-Cook Road, Des Plaines River	12
17	Oakton Steet, Des Plaines River	12
19	Belmont Avenue, Des Plaines River	12
20	Roosevelt Road, Des Plaines River	12
22	Ogden Avenue, Des Plaines River	12
23	Willow Springs Road, Des Plaines River	12
29	Stephen Street, Des Plaines River	12
91	Material Service Road, Des Plaines River	12
		<u>181</u>
<u>Du Page River System</u>		
89	Walnut Lane, West Branch DuPage River	12
64	Lake Street, West Branch DuPage River	12
110	Springinguth Road, West Branch DuPage River	11
		<u>35</u>
<u>Fox River System</u>		
90	Route 19, Poplar Creek	12
		<u>12</u>

¹Refer to Figure 1.

TABLE 5: WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE
IN GENERAL USE WATERS OF ALL RIVER SYSTEMS IN 2006

Parameter	Estimated Percent Compliance*		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	96.2	97.2	93.8
Temperature	98.6	100.0	100.0
pH	100.0	96.1	93.9
Chloride	92.8	100.0	90.2
Total Dissolved Solids	89.8	77.5	83.9
Sulfate	100.0	88.3	100.0
Fluoride	100.0	85.3	100.0
Fecal Coliform	47.0	55.2	35.4
Total Hexavalent Chromium	100.0	100.0	99.6
Total Mercury**	81.8	83.1	84.2

*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-five parameters were in 100 percent compliance at each of the locations. In addition to the 21 parameters listed above, pH, sulfate, fluoride, and total hexavalent chromium were also in total compliance. Violations of the pertinent General Use Standards for the remaining five parameters (dissolved oxygen, temperature, 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 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 compliance rates except for dissolved oxygen, pH, total dissolved solids, and total mercury. In the Chicago River System, the compliance rate for dissolved oxygen significantly increased from 87.3 percent in 2005 to 96.2 percent in 2006, the compliance rate for pH significantly increased from 89.8 percent in 2005 to total compliance in 2006, the compliance rate for total dissolved solids significantly increased from 80.5 percent in 2005 to 89.8 percent in 2006, and the compliance rate for total mercury significantly increased from 70.6 percent in 2005 to 81.8 percent in 2006. Only in the Chicago River System, the compliance rate for total mercury significantly increased from 70.6 percent in 2005 to 81.8 percent in 2006.

Calumet River System. There are 7 sampling locations (49, 50, 55, 52, 54, 97, and 57) in the General Use section of the river system. Twenty-five parameters were in 100 percent compliance at each of the locations. In addition to the 21 parameters listed above, temperature, chloride, total hexavalent chromium, and soluble mercury were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 7](#).

A comparison of 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 compliance rates except for dissolved oxygen. In the Calumet River System, the compliance rate for dissolved oxygen significantly increased from 81.6 percent in 2005 to 97.2 percent in 2006.

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 1 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 21 parameters listed above, temperature, sulfate, fluoride, and soluble mercury were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 8](#).

A comparison of 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 compliance rates for all parameters in this river system.

The compliance rates for 31 water quality parameters with the General Use Standards, and compliance rates for 2 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 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	31	2	Jul and Aug
	32	1	Aug
	34	1	Jul
	35	1	Nov
		5	Total violation of Dissolved Oxygen (DO)
Temp	103	1	Mar
	35	1	Mar
		2	Total violation of Temperature (Temp)
Cl	106	1	Jan
	103	2	Jan and Feb
	31	1	Jan
	104	1	Feb
	34	1	Feb
	96	2	Jan and Feb
	8	Total violation of Chloride (Cl)	
TDS	106	2	Jan and Dec
	103	4	Jan, Feb, Apr, and May
	31	1	Jan
	104	1	Feb
	34	2	Jan and Feb
	96	2	Jan and Feb
	12	Total violation of Total Dissolved Solids (TDS)	
FC	106	4	Jan, Sep, Oct, and Dec
	103	8	Feb, Mar, May, Jun, Sep, Oct, Nov, and Dec
	31	10	Jan, Mar, Apr, May, Jun, Aug, Sep, Oct, Nov, and Dec
	104	7	Feb, Mar, Apr, Jul, Aug, Sep, and Nov
	32	5	Mar, Jun, Sep, Nov, and Dec
	105	1	Sep
	34	11	Jan, Feb, Mar, Apr, Jun, Jul, Aug, Sep, Oct, Nov, and Dec
	96	10	Jan, Mar, May, Jun, Jul, Aug, Sep, Oct, Nov, and Dec
	35	2	Sep 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 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	102	9	Jan, Feb, Mar, Apr, Jun, Sep, Oct, Nov, and Dec
	100	3	Jan, Feb, and Apr
		70	Total violation of Fecal Coliform (FC)
Hg*	103	3	Mar, Aug, and Nov
	31	2	Mar and Aug
	104	4	Mar, Aug, Sep, and Nov
	32	4	Mar, Aug, Sep, and Nov
	105	2	Mar and Nov
	34	2	Mar and Nov
	96	1	Mar
	35	1	Aug
	102	2	Mar and Nov
	74	1	Jun
	100	3	Sep, Oct, and Nov
		25	Total violation of Total Mercury (Hg*)

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

*Due to Human Health Standard in General Use Water.

TABLE 7: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CALUMET RIVER SYSTEM IN 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	55	1	Nov
	97	1	Jul
		<u>2</u>	Total violation of Dissolved Oxygen (DO)
pH	50	2	May and Jun
	52	1	Jan
		<u>3</u>	Total violation of pH (pH)
TDS	54	9	Jan, Feb, Apr, May, Jun, Aug, Sep, Oct, and Nov
	97	5	Feb, Mar, May, Jun, and Aug
	57	3	Feb, Mar, and Jun
		<u>17</u>	Total violation of Total Dissolved Solids (TDS)
SO ₄	54	6	Feb, Apr, May, Jun, Sep, and Oct
	97	3	Jan, Feb, and Jun
		<u>9</u>	Total violation of Sulfate (SO₄)
F	52	9	Feb, Mar, May, Jun, Jul, Aug, Sep, Oct, and Nov
	57	2	Feb and Jun
		<u>11</u>	Total violation of Fluoride (F)
FC	55	1	Aug
	52	10	Jan, Feb, Apr, May, Jun, Jul, Aug, Sep, Oct, and Nov
	54	9	Jan, Feb, Apr, May, Jun, Aug, Sep, Oct, and Nov
	97	8	Jan, Feb, Apr, Jun, Jul, Aug, Sep, and Oct
	57	6	Jan, Jul, Aug, Sep, Oct, and Nov
		<u>34</u>	Total violation of Fecal Coliform (FC)
Hg*	49	1	Oct
	50	2	Apr and Oct
	55	2	Apr and Oct
	52	2	Apr and Oct
	54	2	Apr and Oct
	97	2	Apr and Oct

TABLE 7 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE CALUMET RIVER SYSTEM IN 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
Hg*	57	$\frac{2}{13}$	Jun and Oct Total violation of Total Mercury (Hg*)

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

*Due to Human Health Standard in General Use Water.

TABLE 8: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE DES PLAINES RIVER SYSTEM IN 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	79	1	Sep
	109	2	Jun and Aug
	77	1	Jul
	12	1	May
	13	1	Jul
	17	1	Aug
	19	1	Aug
	20	1	Aug
	110	5	Jun, Jul, Aug, Sep, and Nov
			<u>14</u>	Total violation of Dissolved Oxygen (DO)
pH	90	1	Feb
	89	1	Feb
	64	1	Feb
	18	1	Feb
	24	2	Jan and Feb
	109	2	Jan and Feb
	12	1	Apr
	22	2	Jan and Feb
	23	1	Feb
	29	1	Jan
			<u>13</u>	Total violation of pH (pH)
Cl	90	2	Jan and Feb
	89	1	Mar
	79	1	Mar
	80	2	Jan and Feb
	18	2	Jan and Feb
	109	1	Jan
	77	2	Jan and Mar
	17	1	Jan
	19	2	Jan and Mar
	20	2	Jan and Mar

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE DES PLAINES RIVER SYSTEM IN 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	22	1	Jan
	23	1	Jan
	29	1	Jan
	91	1	Jan
	110	2	Jan and Mar
		22	Total violation of Chloride (Cl)
TDS	90	3	Jan, Feb, and Mar
	89	1	Mar
	79	1	Mar
	80	2	Jan and Feb
	18	3	Jan, Feb, and Mar
	24	2	Jan and Feb
	109	3	Jan, Feb, and Mar
	77	2	Jan and Mar
	78	2	Jan and Dec
	12	2	Jan and Feb
	13	1	Jan
	17	2	Jan and Mar
	19	2	Jan and Mar
	20	2	Jan and Mar
	22	2	Jan and Mar
	23	1	Jan
	29	1	Jan
	91	1	Jan
	110	3	Jan, Mar, and Dec
		36	Total violation of Total Dissolved Solids (TDS)
FC	90	5	Jan, Apr, May, Sep, and Dec
	89	7	Jan, Feb, Mar, Apr, Sep, Nov, and Dec
	64	10	Jan, Feb, Mar, Apr, May, Jul, Sep, Oct, Nov, and Dec
	79	3	Apr, May, and Sep
	80	6	Jan, Feb, Mar, Apr, Nov, 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 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	18	10	Jan, Feb, Mar, Apr, Jun, Aug, Sep, Oct, Nov, and Dec
	24	9	Jan, Feb, Mar, Apr, May, Aug, Sep, Oct, and Dec
	109	10	Jan, Feb, Mar, Apr, May, Jun, Jul, Sep, Oct, and Dec
	77	7	Jan, Mar, Apr, May, Jul, Sep, and Oct
	78	7	Jan, Feb, Mar, Apr, Sep, Nov, and Dec
	12	3	Apr, Sep, and Dec
	13	4	Jan, Apr, Sep, and Dec
	17	7	Jan, Apr, May, Aug, Sep, Oct, and Dec
	19	8	Jan, Feb, Apr, May, Jun, Sep, Oct, and Dec
	20	10	Jan, Feb, Apr, May, Jun, Aug, Sep, Oct, Nov, and Dec
	22	11	Jan, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, and Dec
	23	8	Jan, Feb, Apr, May, Jun, Sep, Oct, and Dec
	29	6	Jan, Apr, May, Sep, Oct, and Dec
	91	6	Jan, Apr, May, Sep, Nov, and Dec
	110	11	Jan, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, and Dec
		148	Total violation of Fecal Coliform (FC)
Cr ⁺⁶	109	1	Mar
		1	Total violation of Total Hexavalent Chromium (Cr⁺⁶)
Hg*	90	1	Dec
	89	1	Dec
	64	2	Jan and Dec
	80	2	May and Dec
	18	3	Aug, Nov, and Dec
	24	2	Nov and Dec
	109	2	May and Dec
	78	2	Aug and Dec
	12	1	Dec
	13	3	May, Aug, and Dec
	17	2	Jan and Dec
	19	2	Nov and Dec
	20	2	May 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 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	22	3	May, Nov, and Dec
	23	2	Nov and Dec
	29	2	Feb and Dec
	91	2	Nov and Dec
	110	1	Dec
		<u>35</u>	Total violation of Total Mercury (Hg*)

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

*Due to Human Health Standard in General Use Water.

FIGURE 2: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2005 AND 2006

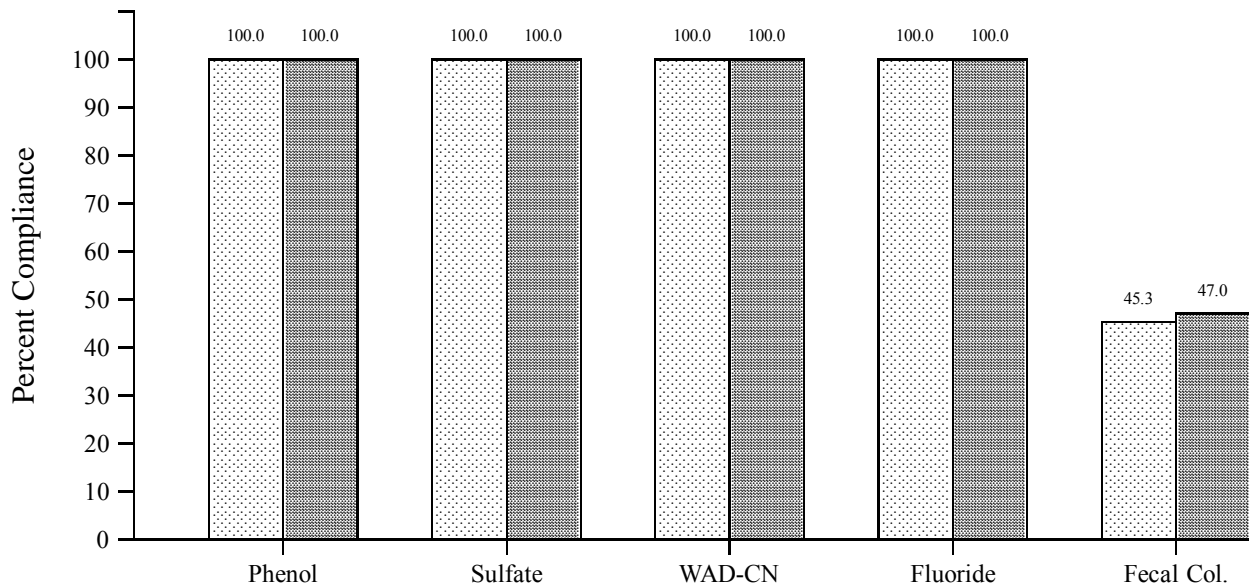
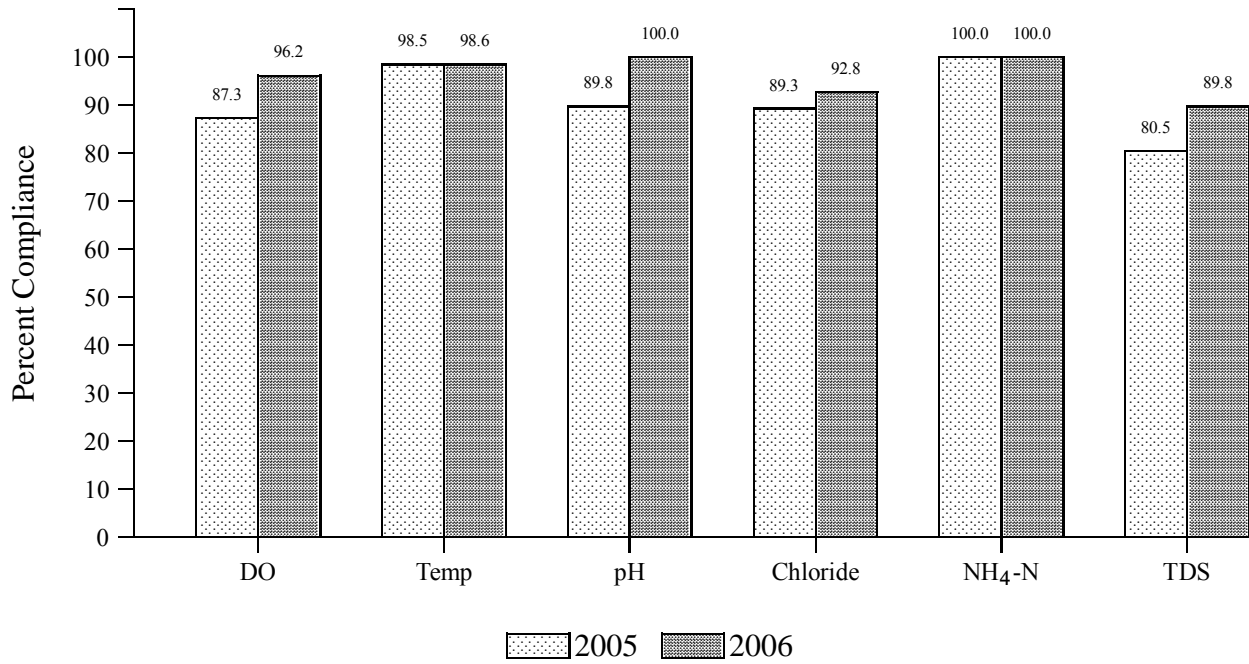


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2005 AND 2006

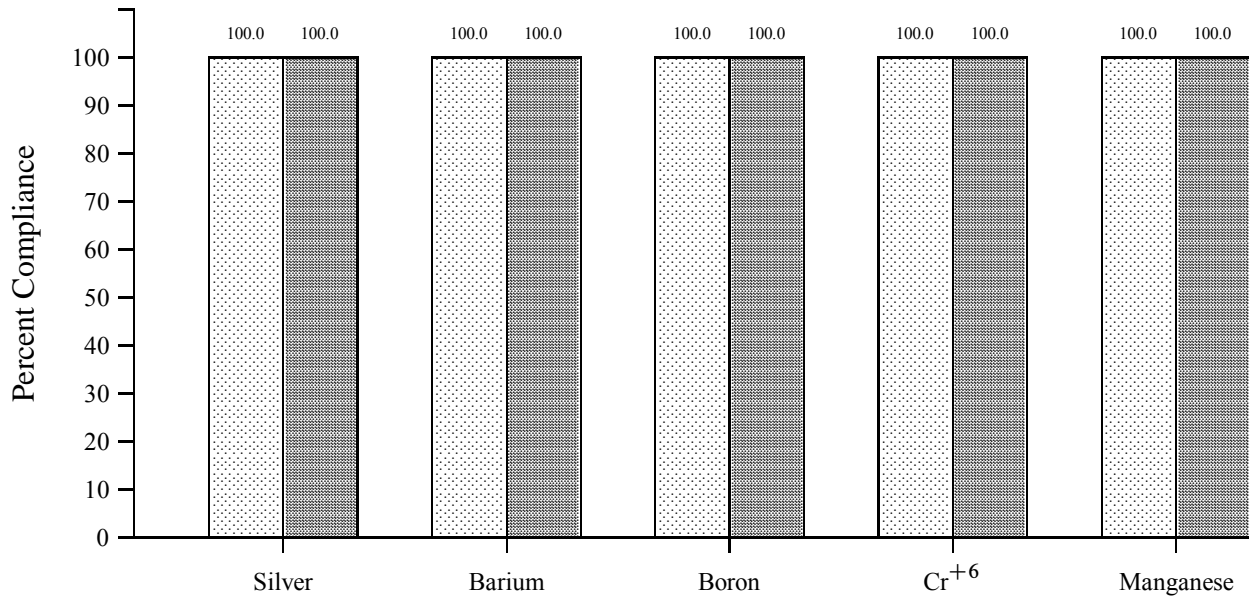
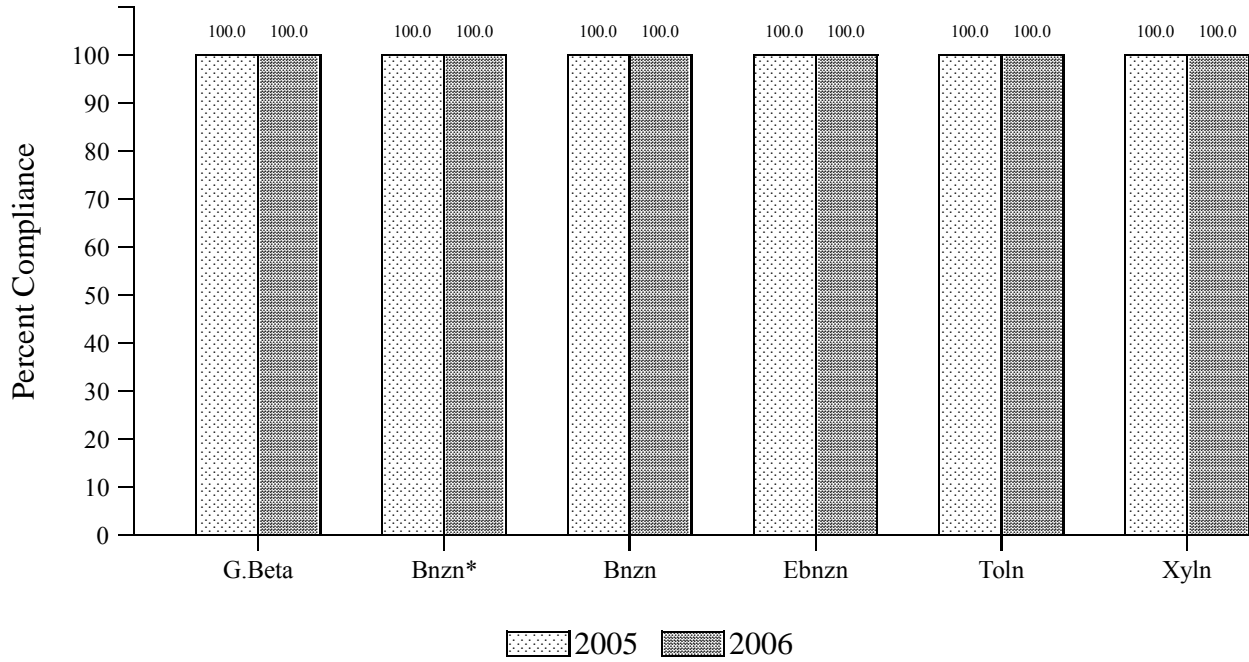
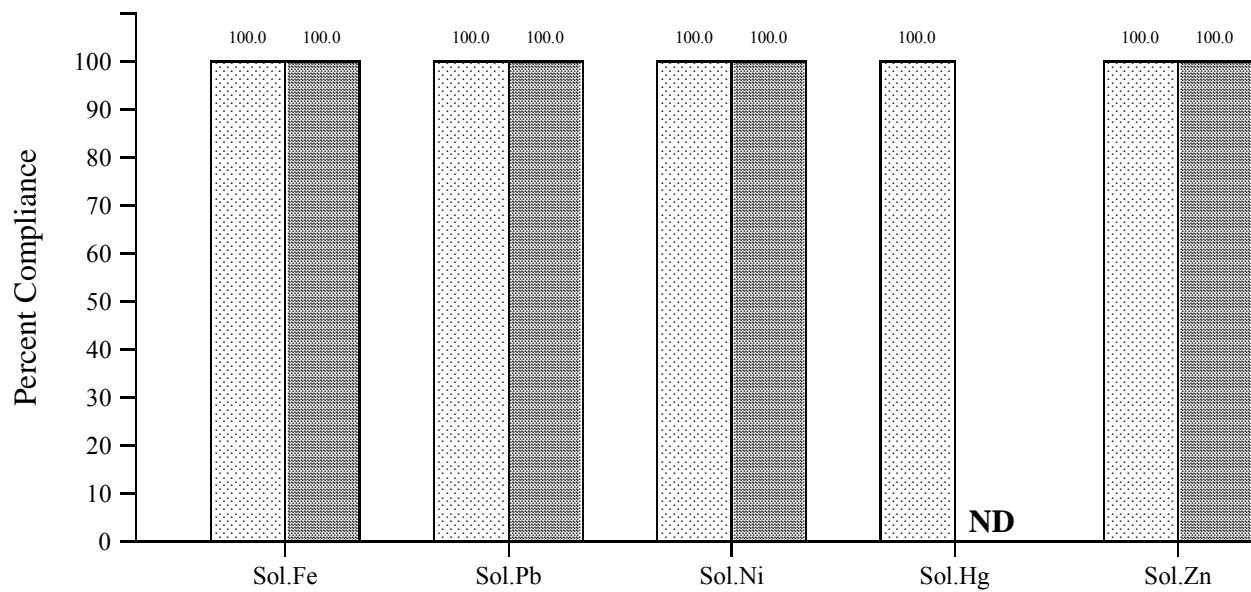
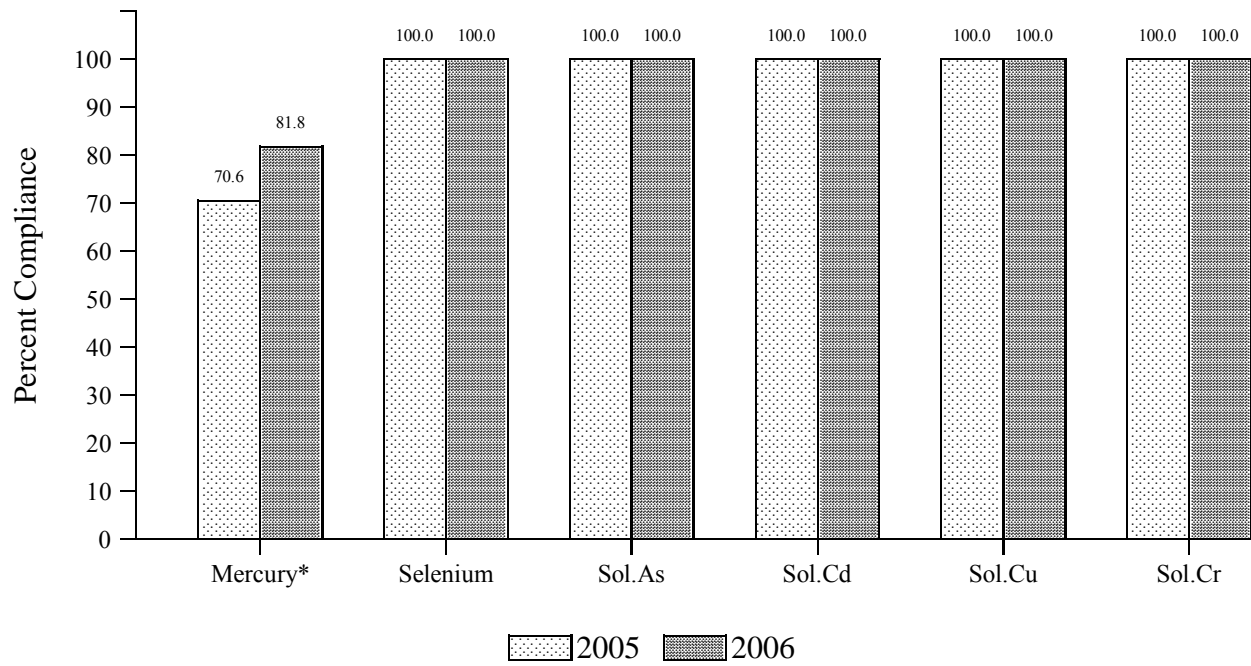


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2005 AND 2006



*Human Health Standard became effective in General Use Waters in December, 2002
 ND = No Data

FIGURE 3: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2005 AND 2006

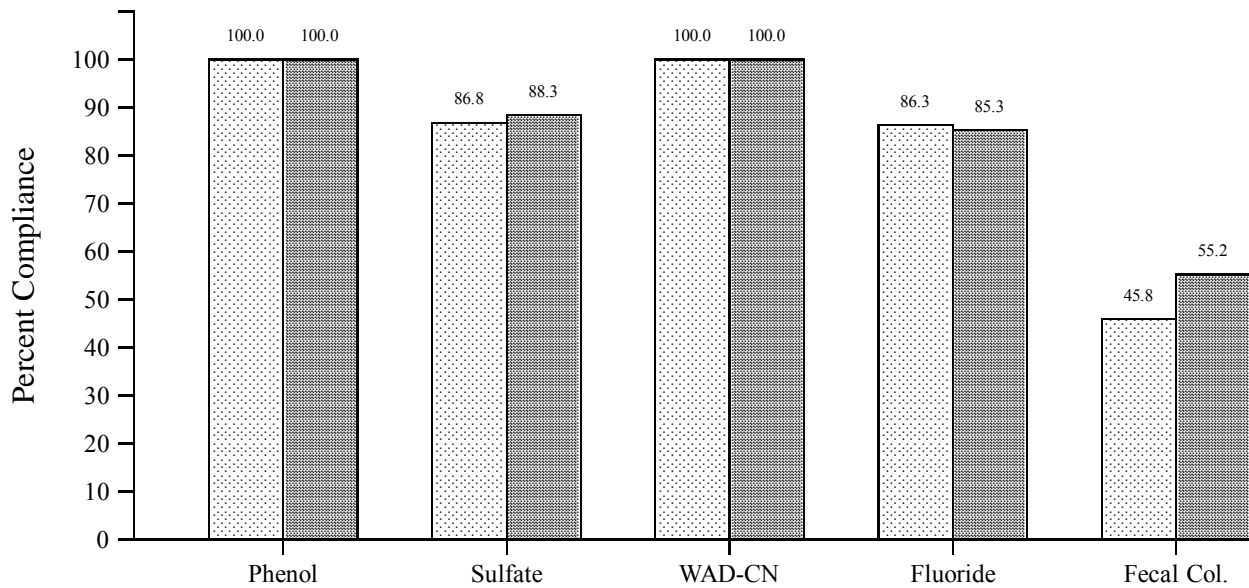
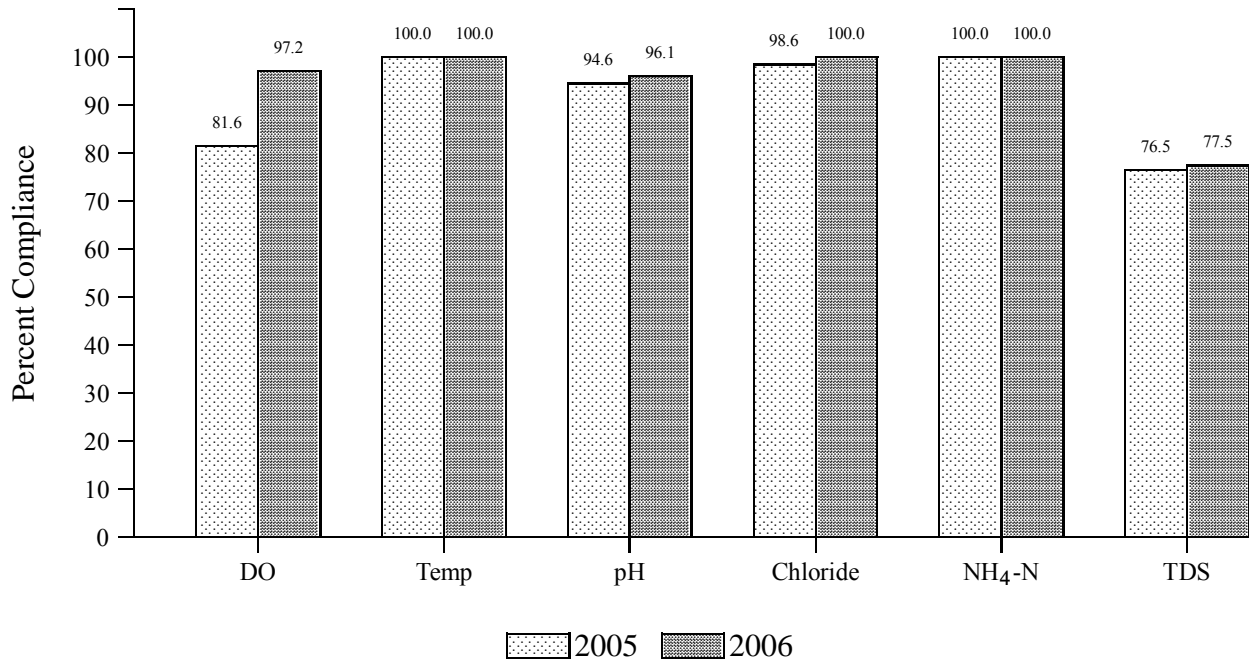


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2005 AND 2006

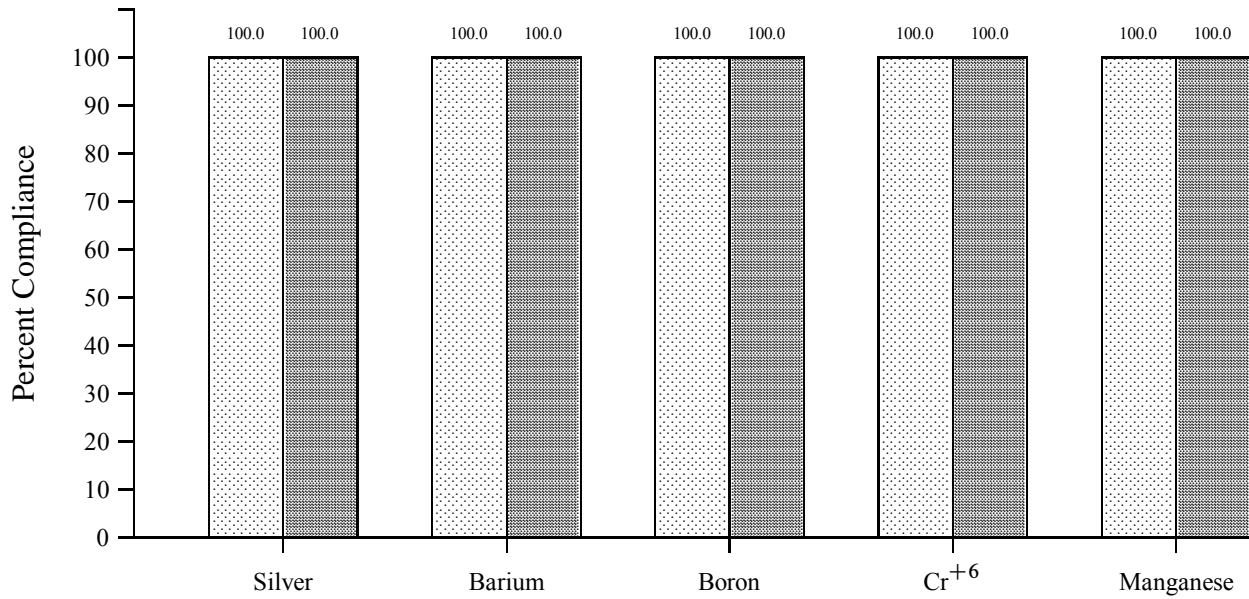
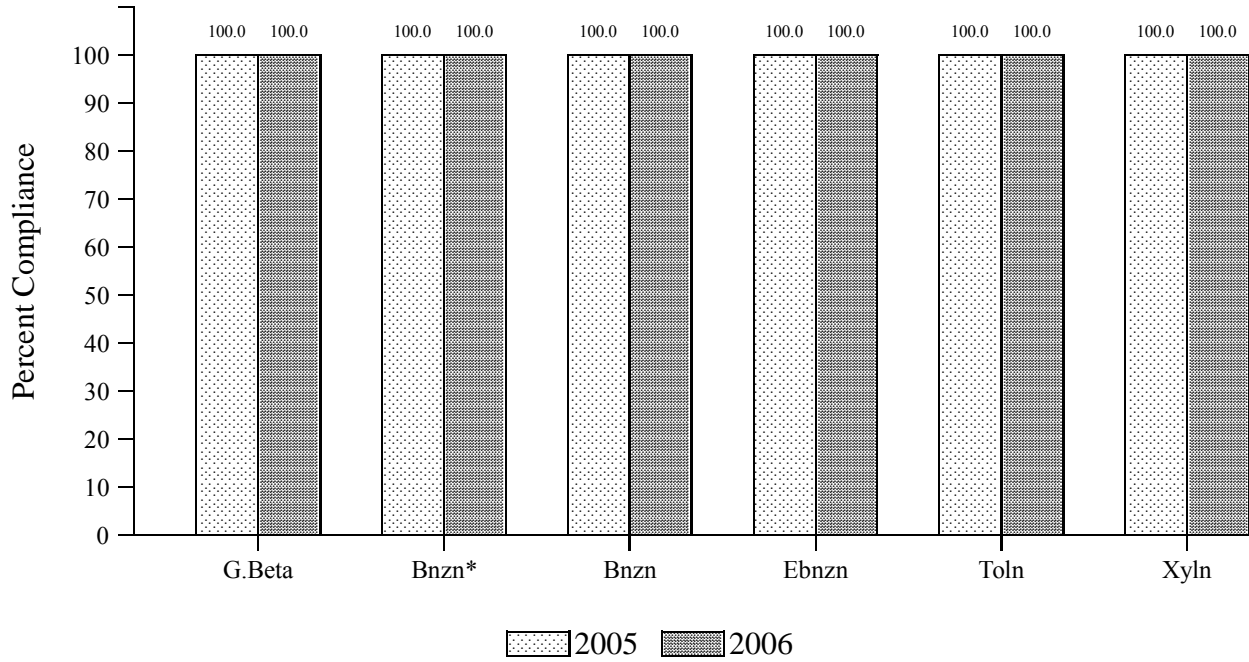
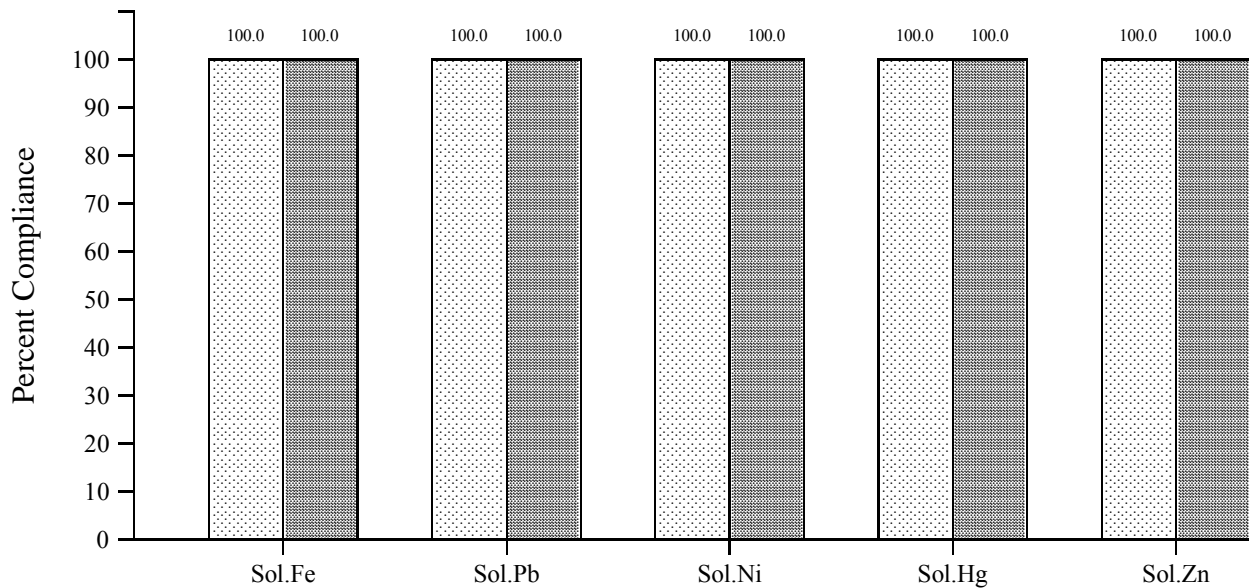
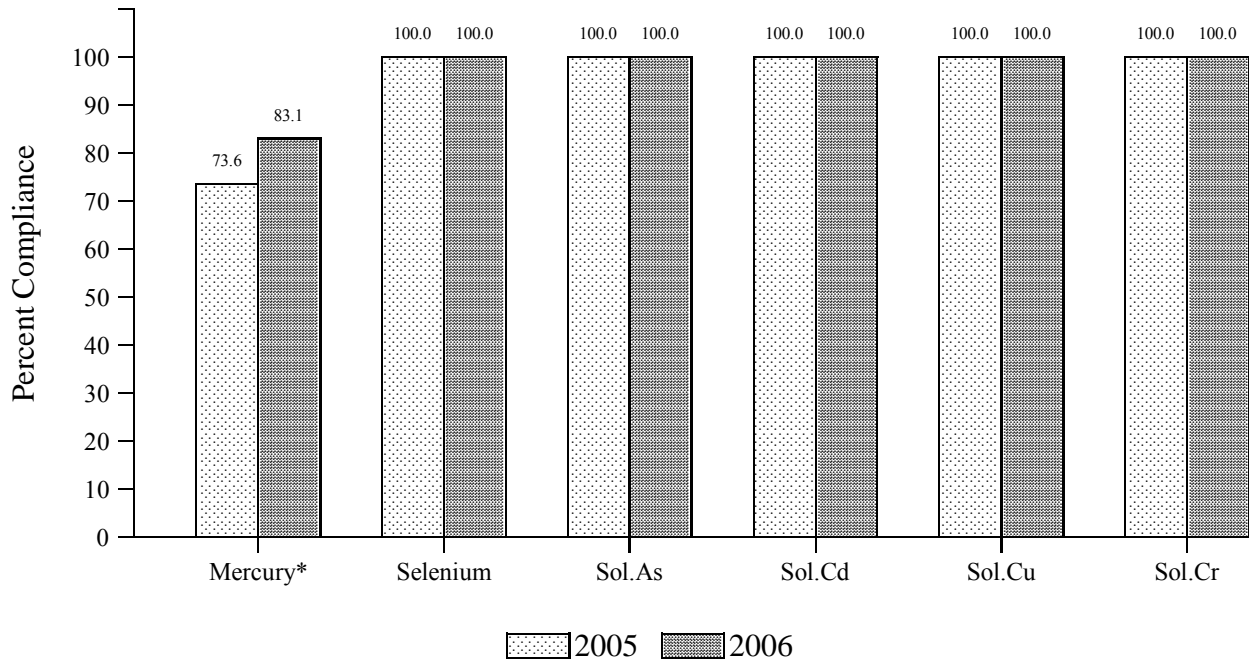


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2005 AND 2006



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

FIGURE 4: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2005 AND 2006

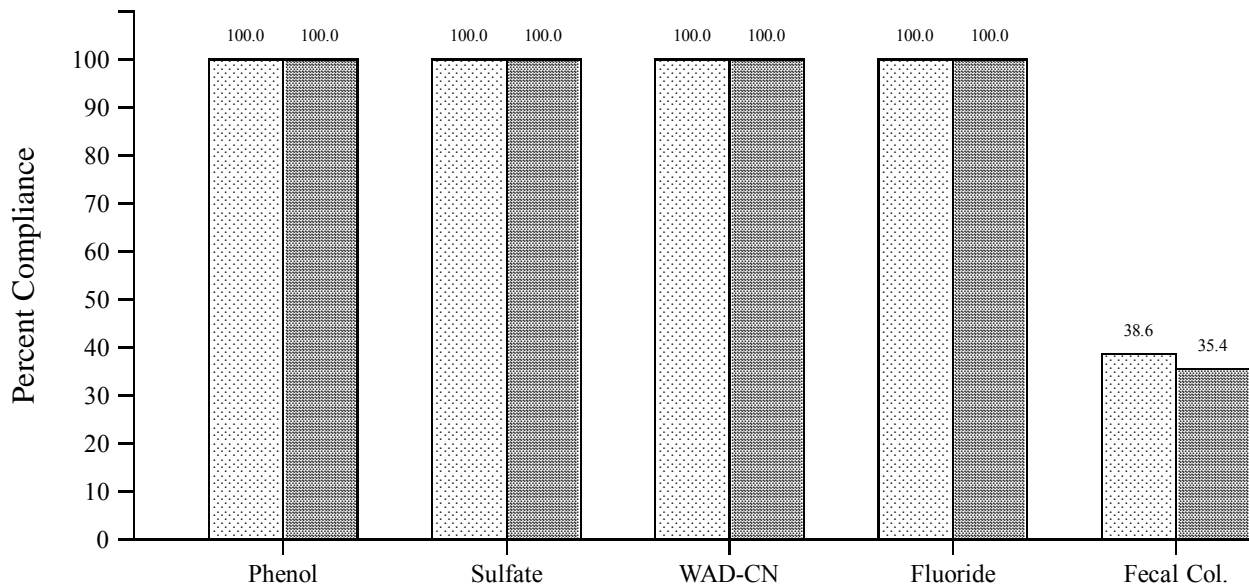
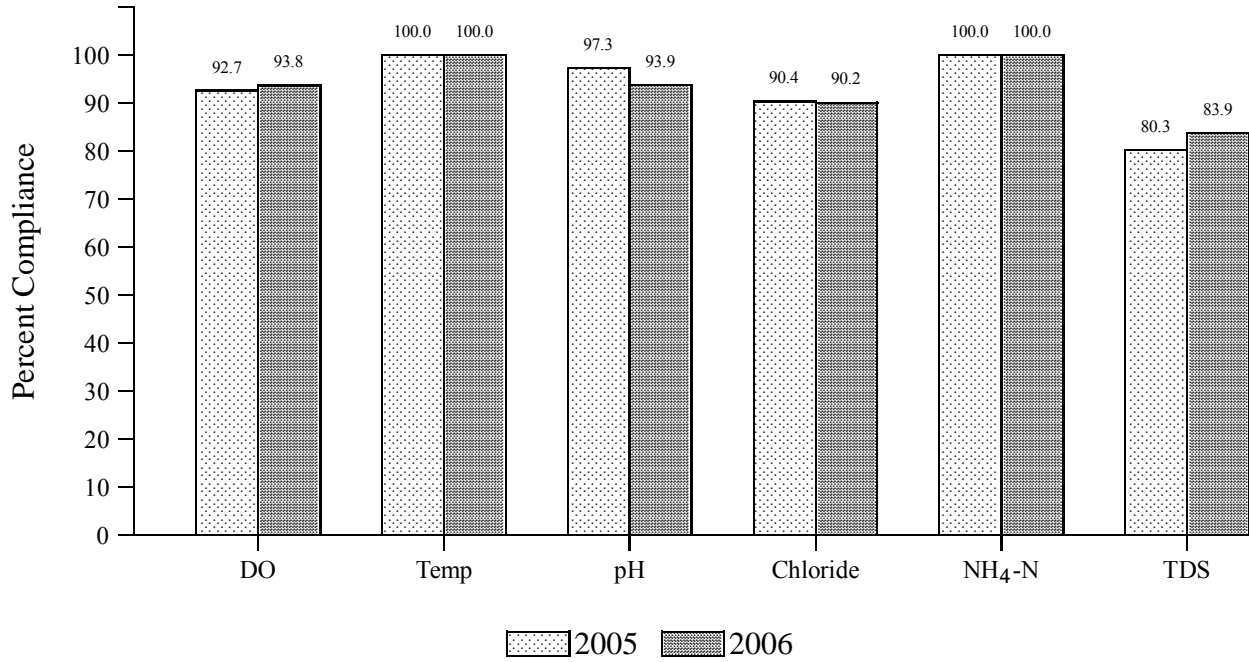


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2005 AND 2006

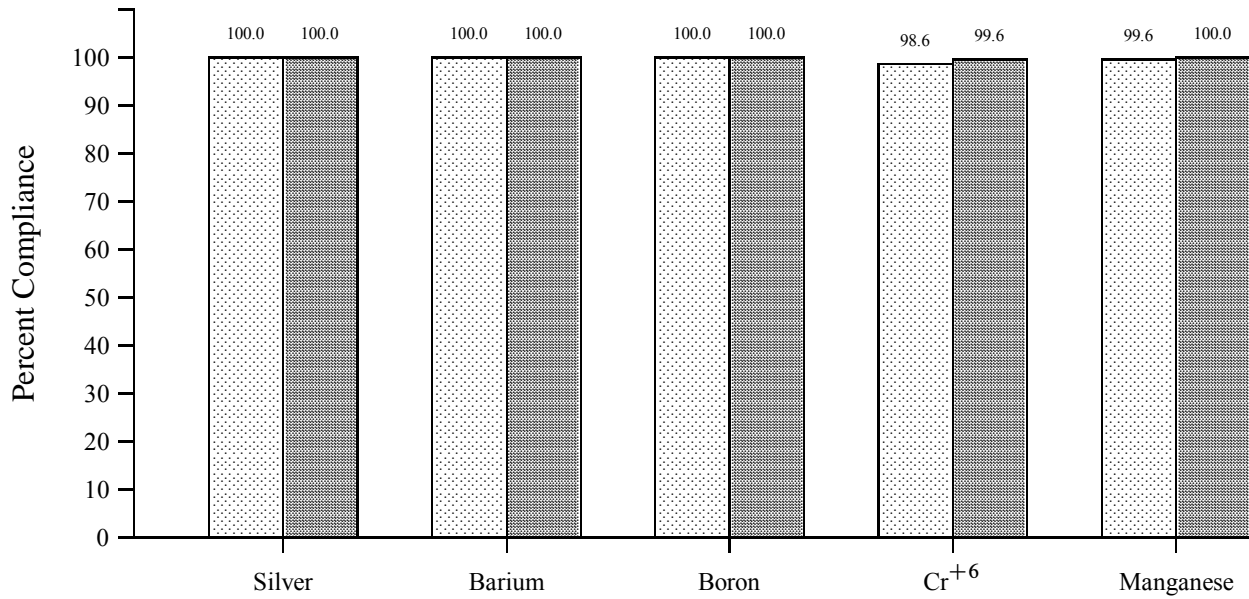
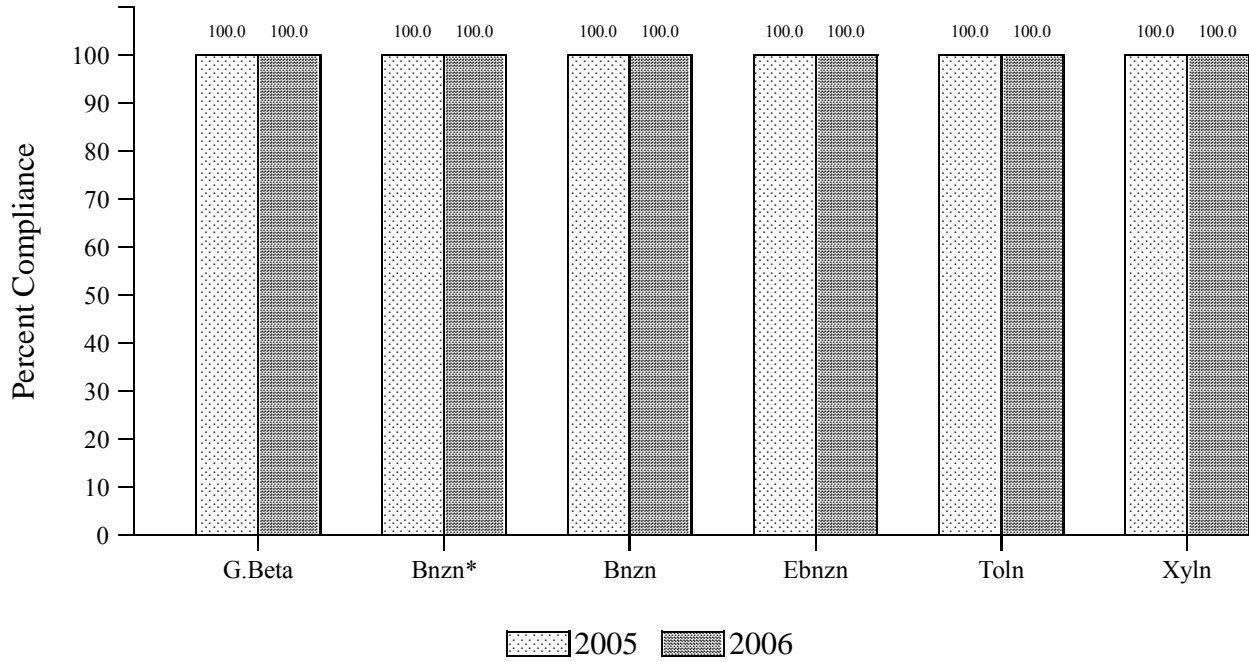
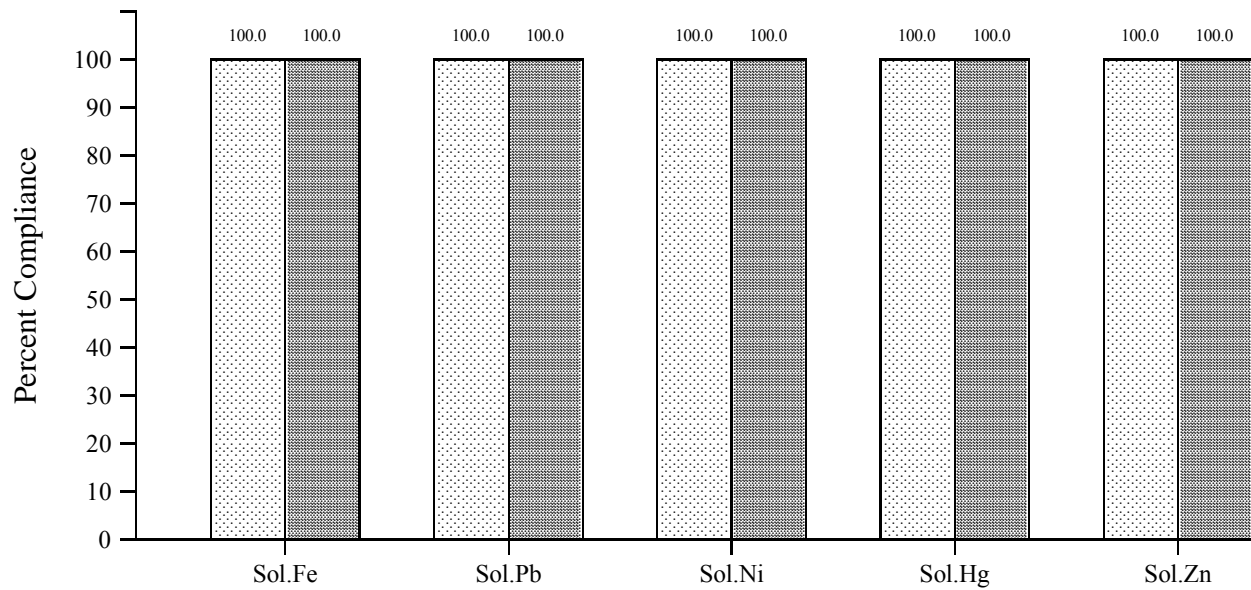
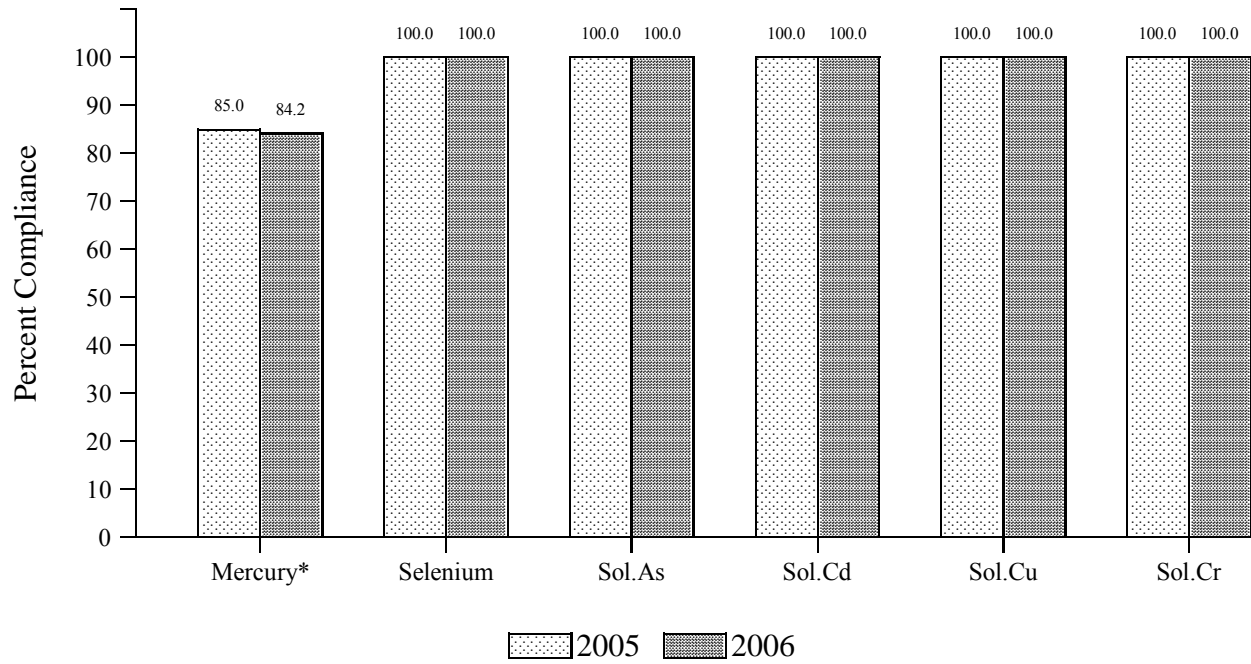


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2005 AND 2006



*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 2006 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 2006.

River System Compliance Data

In Secondary Contact Waters sampled during 2006, 23 parameters had 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 2006 in both the Chicago and Calumet River Systems. Nineteen water quality parameters were in complete compliance in both of these river systems. They were temperature; 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 lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron.

Four 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 Rate	
	Chicago	Calumet
Dissolved Oxygen	96.5	93.9
pH	99.5	100.0
Un-ionized Ammonia	99.5	100.0
Total Iron	100.0	98.5

TABLE 9: LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF SECONDARY CONTACT WATERS IN 2006

Map No. ¹	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	12
39	Madison Street, South Branch Chicago River	12
108	Loomis Street, South Branch Chicago River	12
99	Archer Avenue, South Fork South Branch Chicago River	7
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	12
48	Stephen Street, Chicago Sanitary & Ship Canal	12
92	Lockport Forebay, Chicago Sanitary & Ship Canal	51
		<u>202</u>
<u>Calumet River System</u>		
86	Burnham Avenue, Grand Calumet River	11
56	Indiana Avenue, Little Calumet River	11
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>66</u>

¹Refer to Figure 1.

Chicago River System. In addition to the 19 parameters listed above, total iron was also in total compliance. Violations of the pertinent Secondary Contact Standards for the remaining three parameters (dissolved oxygen, pH, and un-ionized ammonia) occurred in at least one of the locations sampled. The compliance rates of these three parameters ranged from 96.5 to 99.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 10.

A comparison of 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 compliance rates for all parameters in this river system.

Calumet River System. In addition to the 19 parameters listed above, pH and un-ionized ammonia were also in total compliance. Violations of the pertinent Secondary Contact Standards for the remaining two parameters (dissolved oxygen and total iron) occurred in at least one of the locations sampled.

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

A comparison of 2006 data with 2005 data indicated that there was no significant difference between 2006 and 2005 compliance rates except for pH. In the Calumet River System, the compliance rate for pH significantly increased from 94.2 percent in 2005 to total compliance in 2006.

The compliance rates for 23 water quality parameters due to 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 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	99	1	Sep
	75	1	Apr
	42	1	Jun
	48	1	Jan
	92	3	Jun, Jul, and Aug
		<u>7</u>	Total violation of Dissolved Oxygen (DO)
pH	92	1	Jan
		<u>1</u>	Total violation of pH (pH)
NH ₃ -N	73	1	Mar
		<u>1</u>	Total violation of Un-ionized Ammonia (NH₃-N)

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

*Due to Human Health Standard in General Use Water.

TABLE 11: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CALUMET RIVER SYSTEM IN 2006

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	86	$\frac{4}{4}$	Apr, Jun, Jul, and Aug Total violation of Dissolved Oxygen (DO)
Fe	59	$\frac{1}{1}$	Oct Total violation of Total Iron (Fe)

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

*Due to Human Health Standard in General Use Water.

FIGURE 5: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2005 AND 2006

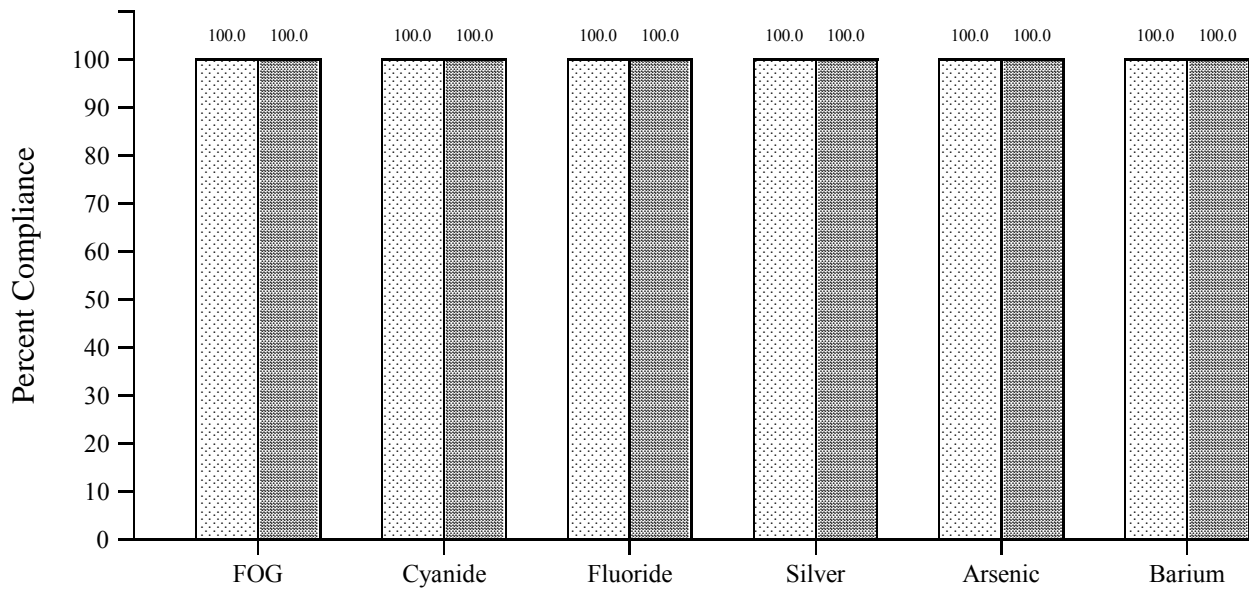
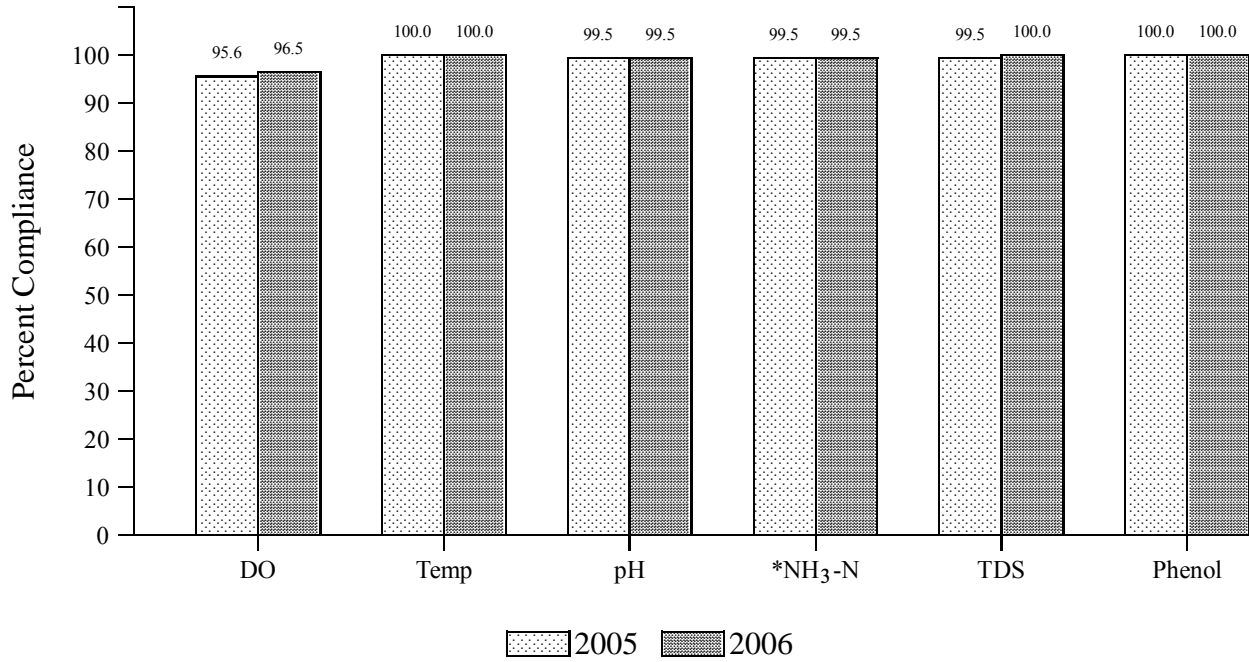
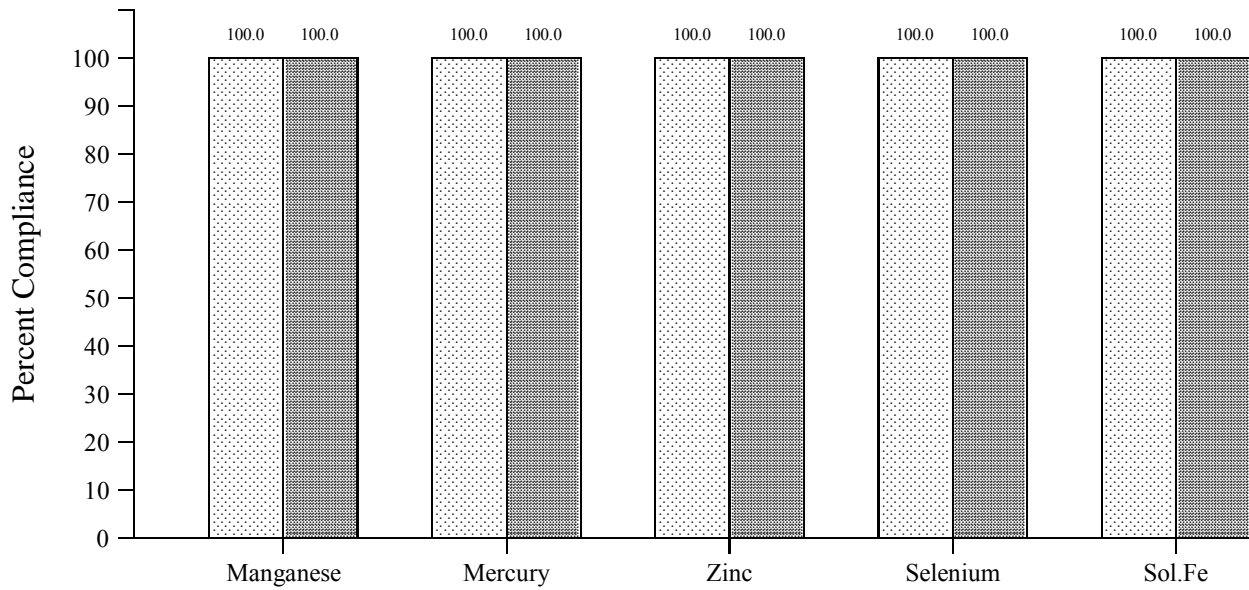
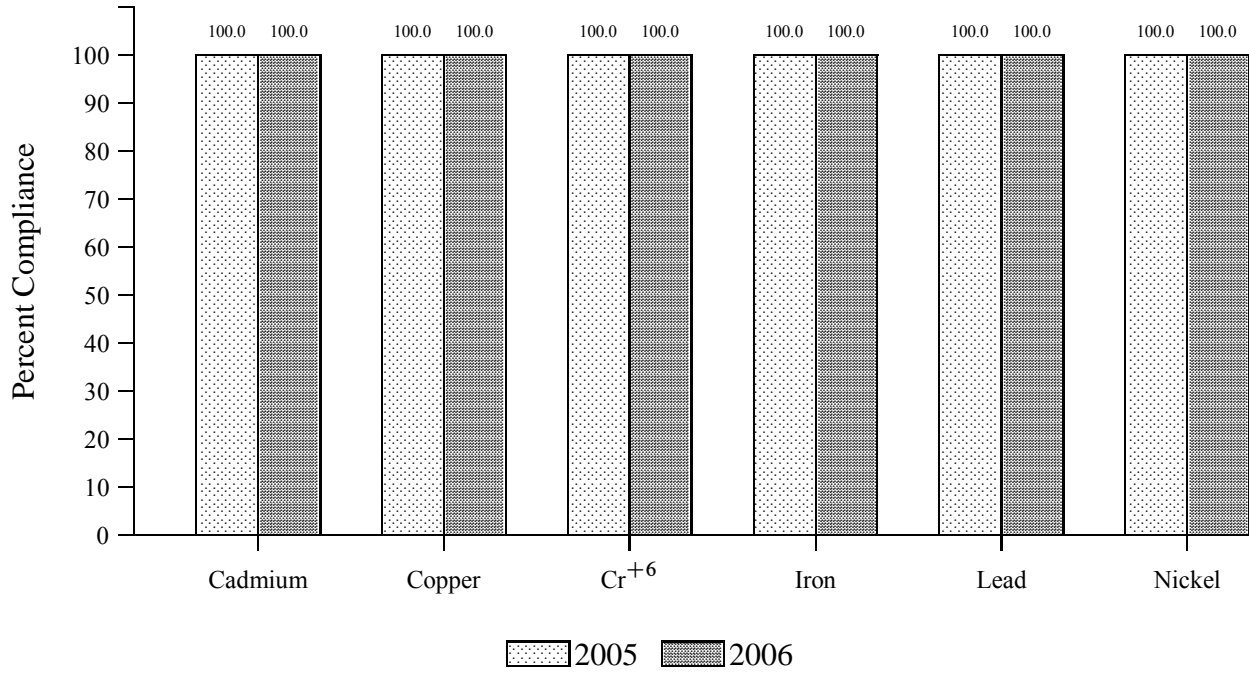


FIGURE 5 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2005 AND 2006



*NH₃-N = Un-ionized Ammonia

FIGURE 6: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2005 AND 2006

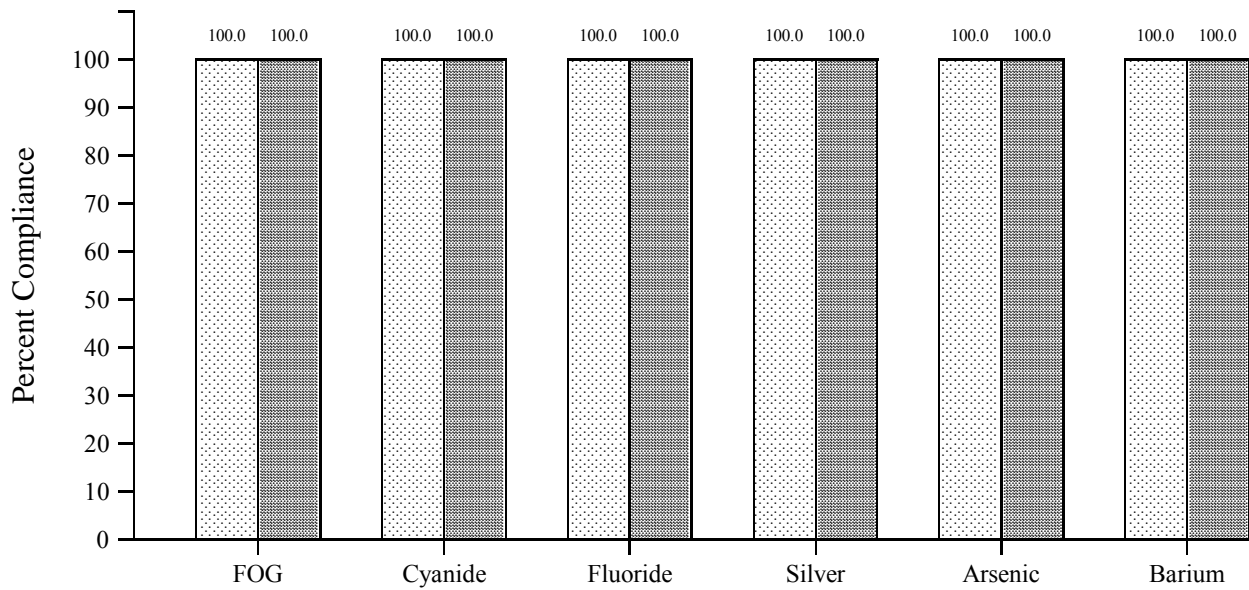
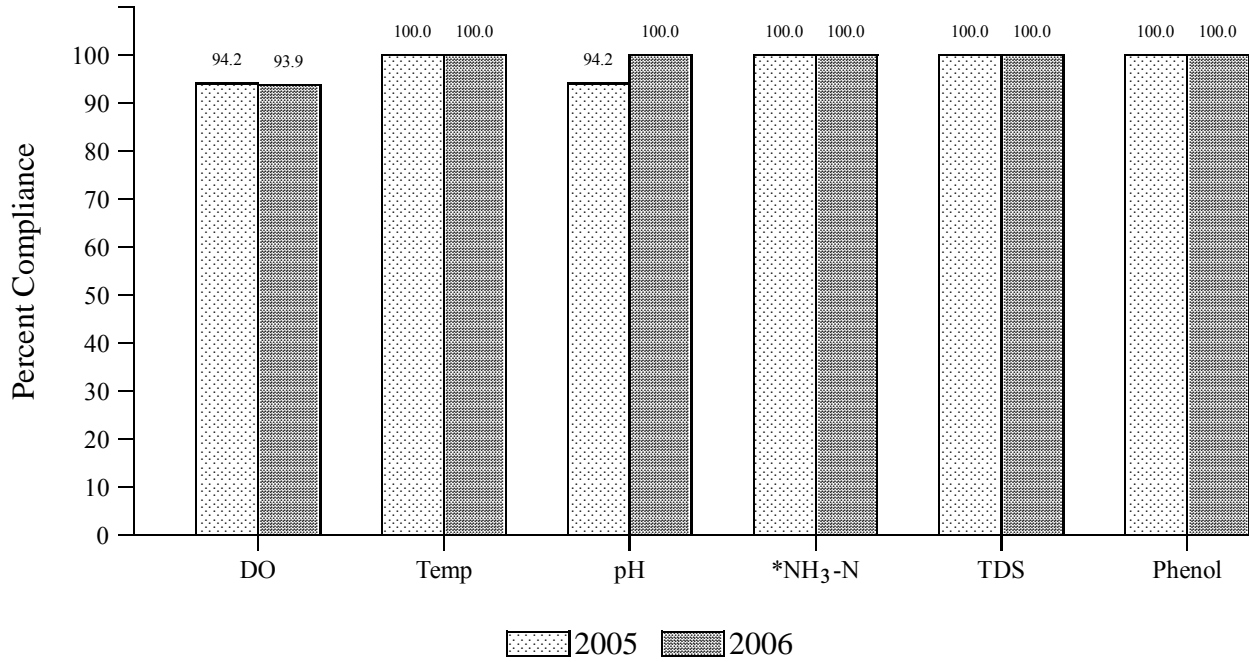
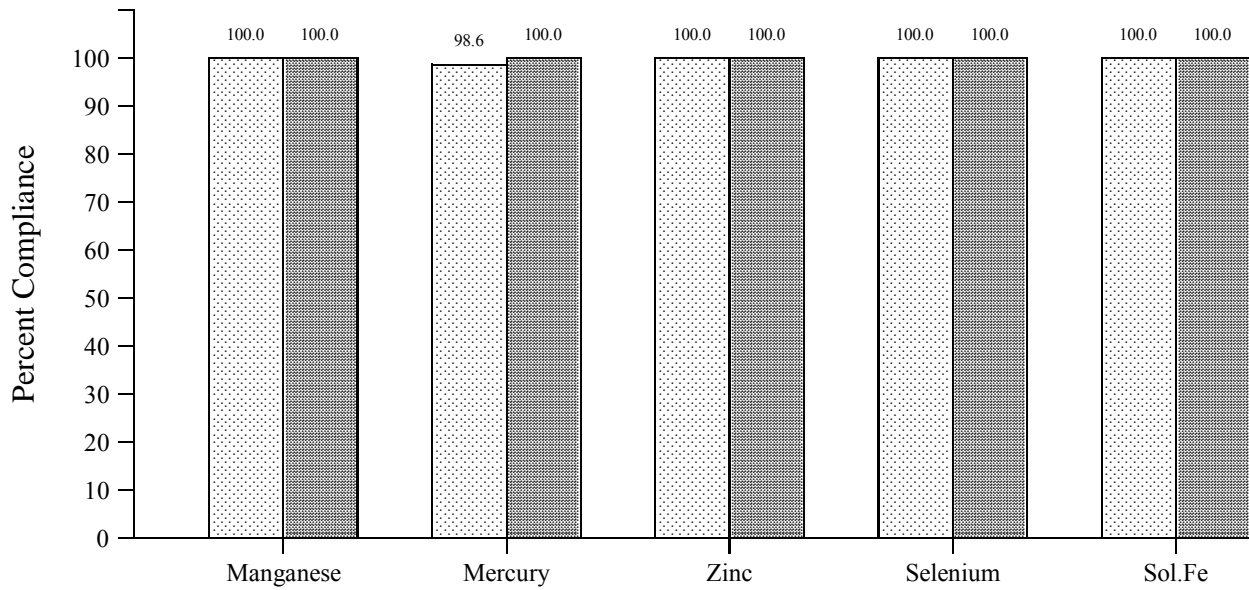
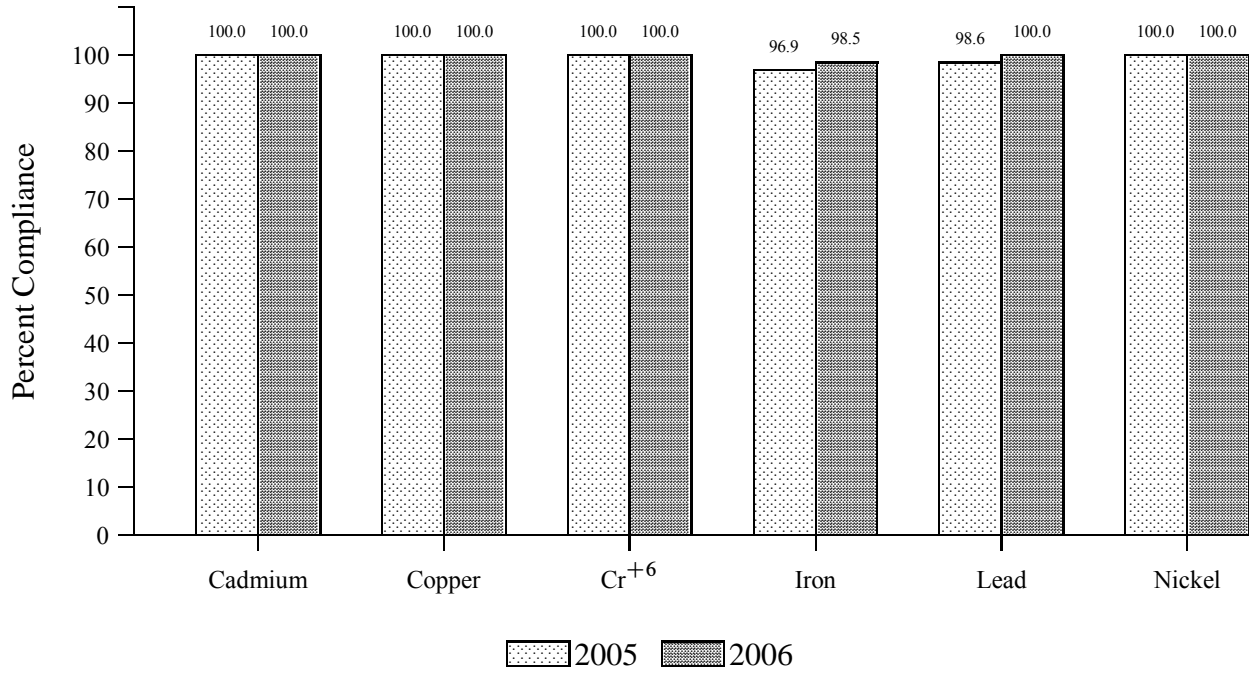


FIGURE 6 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2005 AND 2006



*NH₃-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 2006. 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 2006, 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 having 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 2006¹

WRP	Upstream Sample			Downstream Sample		
	Location	No. ¹	Freq.	Location	No. ¹	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	11	Halsted Street, Little Calumet River	76	11
John E. Egan	Higgins Road, Salt Creek	79	9	Arlington Heights Road, Salt Creek	80	12
James C. Kirie	Elmhurst Road, Higgins Creek	77	7	Wille Road, Higgins Creek	78	12
Hanover Park	Longmeadow Lane, West Branch DuPage River*	63	0	Walnut Lane, West Branch DuPage River	89	12

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

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

Annual Summary Results for Water Quality Upstream and Downstream of 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 2006. Comparison of the mean concentrations of the common parameters (maximum of 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 pertinent to that parameter.

TABLE 13: COMPARISON OF LEVELS OF 60 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	8.6		7.9	0.526
Temperature	Temp (°C)	19		16	0.225
pH	pH	7.7		7.2	0.014
Alkalinity (Total)	Alk (mg/L)	117		144	0.003
Chloride	Cl (mg/L)	37		116	0.000
Turbidity	Turb (NTU)	9.3		5.8	0.088
Total Kjeldahl Nitrogen	TKN (mg/L)	0.57		1.99	0.000
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.14		0.69	0.001
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.005	0.134
Organic Nitrogen	ORG-N (mg/L)	0.44		1.32	0.001
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.34		6.01	0.000
Total Solids	TS (mg/L)	229		475	0.000
Total Suspended Solids	TSS (mg/L)	9.4		11.7	0.245
Volatile Suspended Solids	VSS (mg/L)	3.1		5.1	0.182
Total Dissolved Solids	TDS (mg/L)	219		464	0.000
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO ₄ (mg/L)	29		51	0.000
Total Phosphorus	TP (mg/L)	0.06		1.03	0.000
WAD Cyanide	WAD-CN (mg/L)	0.0004		0.0010	0.020
Fluoride	F (mg/L)	0.18		0.66	0.000
Total Organic Carbon	TOC (mg/L)	1.9		4.1	0.000
Fecal Coliform *	FC (cfu/100mL)	90		8550	0.000
Escherichia Coli *	EColi (cfu/100mL)	222		5772	0.040
Total Calcium	Ca (mg/L)	37		53	0.000
Total Magnesium	Mg (mg/L)	13		19	0.000
Hardness	Hard (mg/L)	145		211	0.000

TABLE 13 (Continued): COMPARISON OF LEVELS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.1		3.7	0.080
Gross Beta Radioactivity	G.Beta (pCi/L)	4.5		7.9	0.000
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	4.5		2.0	0.455
Benzene	Bznz (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.022		0.021	0.545
Total Boron	B (mg/L)	0.037		0.193	0.000
Total Cadmium	Cd (mg/L)	<0.0004		<0.0004	-
Total Copper	Cu (mg/L)	<0.002		0.004	0.068
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.322		0.180	0.065
Total Lead	Pb (mg/L)	0.003		0.004	0.358
Total Nickel	Ni (mg/L)	<0.002		0.002	0.000
Total Manganese	Mn (mg/L)	0.019		0.014	0.412
Total Mercury	Hg (μ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.011		0.035	0.000
Soluble Calcium	Sol.Ca (mg/L)	35.3		49.8	0.000
Soluble Magnesium	Sol.Mg (mg/L)	11.9		18.0	0.000
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)	0.020		0.019	0.131
Soluble Boron	Sol.B (mg/L)	0.035		0.180	0.000

TABLE 13 (Continued): COMPARISON OF LEVELS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
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)	<0.0007		0.001	0.166
Soluble Iron	Sol.Fe (mg/L)	0.024		0.031	0.651
Soluble Lead	Sol.Pb (mg/L)	0.003		0.003	0.871
Soluble Manganese	Sol.Mn (mg/L)	0.009		0.009	0.870
Soluble Zinc	Sol.Zn (mg/L)	0.010		0.034	0.000
Soluble Selenium	Sol.Se (mg/L)	<0.002		0.002	0.683

¹Seven out of 67 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some 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 64 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	5.9		7.3	0.013
Temperature	Temp (°C)	17		16	0.678
pH	pH	7.2		7.2	0.996
Alkalinity (Total)	Alk (mg/L)	159		131	0.171
Chloride	Cl (mg/L)	134		144	0.737
Turbidity	Turb (NTU)	13		7	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.7		1.5	0.448
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.59		0.36	0.033
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.004		0.002	0.108
Organic Nitrogen	ORG-N (mg/L)	1.1		1.2	0.679
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	3.9		7.6	0.000
Total Solids	TS (mg/L)	481		529	0.422
Total Suspended Solids	TSS (mg/L)	19		12	0.016
Volatile Suspended Solids	VSS (mg/L)	7.2		5.8	0.413
Total Dissolved Solids	TDS (mg/L)	462		518	0.352
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO ₄ (mg/L)	53		73	0.002
Fats, Oils, and Greases	FOG (mg/L)	<3		<3	-
Total Phosphorus	TP (mg/L)	0.66		0.86	0.093
Total Cyanide	CN (mg/L)	<0.003		0.003	0.016
WAD Cyanide	WAD-CN (mg/L)	0.0007		0.0009	0.265
Fluoride	F (mg/L)	0.48		0.66	0.000
Total Organic Carbon	TOC (mg/L)	3.8		4.2	0.251
Fecal Coliform *	FC (cfu/100mL)	425		3898	0.003
Escherichia Coli *	EColi (cfu/100mL)	331		3170	0.005
Total Calcium	Ca (mg/L)	52		55	0.450

TABLE 14 (Continued): COMPARISON OF LEVELS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Total Magnesium	Mg (mg/L)	19		20	0.444
Hardness	Hard (mg/L)	206		220	0.447
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.9		3.9	0.916
Gross Beta Radioactivity	G.Beta (pCi/L)	7.0		8.3	0.076
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	4.6		2.6	0.076
Benzene	Bznz (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.026		0.021	0.012
Total Boron	B (mg/L)	0.126		0.185	0.000
Total Cadmium	Cd (mg/L)	0.001		0.001	1.000
Total Copper	Cu (mg/L)	0.005		0.003	0.025
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.493		0.288	0.001
Total Lead	Pb (mg/L)	0.011		0.007	0.166
Total Nickel	Ni (mg/L)	0.003		0.005	0.002
Total Manganese	Mn (mg/L)	0.029		0.030	0.934
Total Mercury	Hg (μ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.034		0.034	0.906
Total Selenium	Se (mg/L)	<0.003		<0.003	-
Soluble Calcium	Sol.Ca (mg/L)	49.0		48.1	0.878
Soluble Magnesium	Sol.Mg (mg/L)	18.0		17.9	0.978

TABLE 14 (Continued): COMPARISON OF LEVELS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
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)	0.020		0.016	0.038
Soluble Boron	Sol.B (mg/L)	0.119		0.165	0.020
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol.Cr (mg/L)	<0.0007		0.001	0.012
Soluble Iron	Sol.Fe (mg/L)	0.020		0.028	0.029
Soluble Lead	Sol.Pb (mg/L)	0.003		0.003	0.868
Soluble Nickel	Sol.Ni (mg/L)	0.002		0.004	0.005
Soluble Manganese	Sol.Mn (mg/L)	0.019		0.014	0.108
Soluble Zinc	Sol.Zn (mg/L)	0.022		0.025	0.309
Soluble Selenium	Sol.Se (mg/L)	<0.002		<0.002	-

¹Three out of 67 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some 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 63 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	9.6		6.3	0.011
Temperature	Temp (°C)	15		15	0.793
pH	pH	7.8		7.5	0.181
Alkalinity (Total)	Alk (mg/L)	127		162	0.000
Chloride	Cl (mg/L)	98		153	0.074
Turbidity	Turb (NTU)	20		9	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.1		1.4	0.107
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.19		0.26	0.255
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.008		0.003	0.350
Organic Nitrogen	ORG-N (mg/L)	0.90		1.10	0.204
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	1.9		5.9	0.000
Total Solids	TS (mg/L)	428		590	0.007
Total Suspended Solids	TSS (mg/L)	24		13	0.001
Volatile Suspended Solids	VSS (mg/L)	5.3		4.9	0.825
Total Dissolved Solids	TDS (mg/L)	404		577	0.004
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO ₄ (mg/L)	75		91	0.133
Fats, Oils, and Greases	FOG (mg/L)	<3		<3	-
Total Phosphorus	TP (mg/L)	0.36		1.84	0.000
Total Cyanide	CN (mg/L)	<0.003		<0.003	-
WAD Cyanide	WAD-CN (mg/L)	<0.0004		0.0010	0.005
Fluoride	F (mg/L)	0.32		0.60	0.000
Total Organic Carbon	TOC (mg/L)	3.4		4.4	0.071
Fecal Coliform *	FC (cfu/100mL)	89		2159	0.000
Escherichia Coli *	EColi (cfu/100mL)	181		2372	0.027
Total Calcium	Ca (mg/L)	50		66	0.003

TABLE 15 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Total Magnesium	Mg (mg/L)	18		23	0.010
Hardness	Hard (mg/L)	196		258	0.005
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.7		4.1	0.193
Gross Beta Radioactivity	G.Beta (pCi/L)	7.8		9.0	0.269
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	26		8	0.164
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.031		0.022	0.000
Total Boron	B (mg/L)	0.137		0.224	0.006
Total Cadmium	Cd (mg/L)	0.001		0.001	1.000
Total Copper	Cu (mg/L)	0.004		0.002	0.137
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.587		0.380	0.012
Total Lead	Pb (mg/L)	0.006		0.006	1.000
Total Nickel	Ni (mg/L)	0.002		0.002	0.588
Total Manganese	Mn (mg/L)	0.029		0.041	0.262
Total Mercury	Hg (μ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.021		0.042	0.022
Total Selenium	Se (mg/L)	<0.003		<0.003	-
Soluble Calcium	Sol.Ca (mg/L)	45.1		58.2	0.007
Soluble Magnesium	Sol.Mg (mg/L)	16.3		20.7	0.016

TABLE 15 (Continued): COMPARISON OF LEVELS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
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)	0.026		0.017	0.000
Soluble Boron	Sol.B (mg/L)	0.131		0.218	0.003
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol.Cr (mg/L)	<0.0007		0.001	0.135
Soluble Iron	Sol.Fe (mg/L)	0.007		0.033	0.000
Soluble Lead	Sol.Pb (mg/L)	0.002		0.003	0.197
Soluble Manganese	Sol.Mn (mg/L)	0.009		0.025	0.008
Soluble Zinc	Sol.Zn (mg/L)	0.013		0.026	0.001
Soluble Selenium	Sol.Se (mg/L)	0.002		0.003	0.651

¹Four out of 67 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some 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 60 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	8.8		8.8	0.994
Temperature	Temp (°C)	19		15	0.207
pH	pH	7.9		7.5	0.005
Alkalinity (Total)	Alk (mg/L)	155		142	0.309
Chloride	Cl (mg/L)	287		280	0.913
Turbidity	Turb (NTU)	30		10	0.026
Total Kjeldahl Nitrogen	TKN (mg/L)	1.4		1.4	0.473
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.11		0.11	0.936
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.004		0.002	0.022
Organic Nitrogen	ORG-N (mg/L)	1.3		1.3	0.469
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.26		6.77	0.000
Total Solids	TS (mg/L)	804		788	0.886
Total Suspended Solids	TSS (mg/L)	31		10	0.033
Volatile Suspended Solids	VSS (mg/L)	9.0		5.1	0.083
Total Dissolved Solids	TDS (mg/L)	773		778	0.965
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO ₄ (mg/L)	82		85	0.808
Total Phosphorus	TP (mg/L)	0.15		1.79	0.000
WAD Cyanide	WAD-CN (mg/L)	0.0007		0.0011	0.300
Fluoride	F (mg/L)	0.21		0.52	0.000
Total Organic Carbon	TOC (mg/L)	5.6		5.0	0.051
Fecal Coliform *	FC (cfu/100mL)	153		417	0.227
Escherichia Coli *	EColi (cfu/100mL)	22		427	0.037
Total Calcium	Ca (mg/L)	63		64	0.853
Total Magnesium	Mg (mg/L)	26		25	0.642
Hardness	Hard (mg/L)	267		263	0.915

TABLE 16 (Continued): COMPARISON OF LEVELS OF 60 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Gross Alpha Radioactivity	G.Alpha (pCi/L)	5.3		5.6	0.595
Gross Beta Radioactivity	G.Beta (pCi/L)	7.7		10.1	0.026
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	34		16	0.010
Benzene	Bznz (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Barium	Ba (mg/L)	0.044		0.033	0.007
Total Boron	B (mg/L)	0.091		0.191	0.001
Total Copper	Cu (mg/L)	<0.002		0.003	0.078
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	1.306		0.397	0.030
Total Lead	Pb (mg/L)	0.006		0.005	0.458
Total Nickel	Ni (mg/L)	0.002		0.002	0.741
Total Manganese	Mn (mg/L)	0.089		0.046	0.001
Low Level Mercury	Hg- (ng/L)	4.067		2.282	0.194
Total Zinc	Zn (mg/L)	0.015		0.025	0.015
Total Selenium	Se (mg/L)	<0.003		<0.003	-
Soluble Calcium	Sol.Ca (mg/L)	60.6		61.9	0.858
Soluble Magnesium	Sol.Mg (mg/L)	25.4		24.3	0.757
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)	0.037		0.028	0.045
Soluble Boron	Sol.B (mg/L)	0.088		0.186	0.001

TABLE 16 (Continued): COMPARISON OF LEVELS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol.Cr (mg/L)	<0.0007		<0.0007	-
Soluble Iron	Sol.Fe (mg/L)	0.027		0.039	0.118
Soluble Lead	Sol.Pb (mg/L)	0.003		0.003	0.811
Soluble Nickel	Sol.Ni (mg/L)	<0.002		<0.002	-
Soluble Manganese	Sol.Mn (mg/L)	0.021		0.014	0.387
Soluble Zinc	Sol.Zn (mg/L)	0.007		0.022	0.000
Soluble Selenium	Sol.Se (mg/L)	<0.002		<0.002	-

¹Seven out of 67 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some 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 58 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	8.4		9.0	0.486
Temperature	Temp (°C)	13		16	0.376
pH	pH	7.4		7.5	0.505
Alkalinity (Total)	Alk (mg/L)	121		179	0.005
Chloride	Cl (mg/L)	571		217	0.228
Turbidity	Turb (NTU)	33		5	0.007
Total Kjeldahl Nitrogen	TKN (mg/L)	1.4		1.8	0.005
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.20		0.41	0.081
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.005	0.054
Organic Nitrogen	ORG-N (mg/L)	1.2		1.4	0.039
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.57		5.46	0.000
Total Solids	TS (mg/L)	1163		712	0.356
Total Suspended Solids	TSS (mg/L)	45		5	0.043
Volatile Suspended Solids	VSS (mg/L)	11		3	0.027
Total Dissolved Solids	TDS (mg/L)	1118		706	0.402
Phenols	Phenol (µg/L)	<3		<3	-
Sulfate	SO ₄ (mg/L)	47		92	0.000
Total Phosphorus	TP (mg/L)	0.12		0.66	0.004
Total Cyanide	CN (mg/L)	0.003		<0.003	0.688
WAD Cyanide	WAD-CN (mg/L)	0.0009		0.0010	0.822
Fluoride	F (mg/L)	0.22		0.96	0.000
Total Organic Carbon	TOC (mg/L)	5.1		5.6	0.355
Fecal Coliform *	FC (cfu/100mL)	1915		275	0.014
Escherichia Coli *	EColi (cfu/100mL)	1217		207	0.297
Total Calcium	Ca (mg/L)	54		69	0.122
Total Magnesium	Mg (mg/L)	18		25	0.093

TABLE 17 (Continued): COMPARISON OF LEVELS OF 58 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Hardness	Hard (mg/L)	212		277	0.108
Gross Alpha Radioactivity	G.Alpha (pCi/L)	6.7		4.8	0.156
Gross Beta Radioactivity	G.Beta (pCi/L)	8.8		12.7	0.053
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	12		3	0.006
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.056		0.024	0.006
Total Boron	B (mg/L)	0.083		0.289	0.000
Total Cadmium	Cd (mg/L)	<0.0004		<0.0004	-
Total Copper	Cu (mg/L)	0.006		<0.002	0.029
Total Chromium	Cr (mg/L)	0.004		<0.004	0.100
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	1.375		0.153	0.009
Total Lead	Pb (mg/L)	0.008		0.004	0.004
Total Nickel	Ni (mg/L)	0.002		0.007	0.000
Total Manganese	Mn (mg/L)	0.107		0.031	0.003
Low Level Mercury	Hg- (ng/L)	7.817		1.955	0.036
Total Zinc	Zn (mg/L)	0.042		0.049	0.329
Soluble Calcium	Sol.Ca (mg/L)	52.5		66.7	0.181
Soluble Magnesium	Sol.Mg (mg/L)	17.7		24.9	0.043
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)	0.048		0.022	0.021
Soluble Boron	Sol.B (mg/L)	0.078		0.285	0.000
Soluble Cadmium	Sol.Cd (mg/L)	0.001		0.001	0.959
Soluble Copper	Sol.Cu (mg/L)	<0.002		<0.002	-

TABLE 17 (Continued): COMPARISON OF LEVELS OF 58 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2006¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Soluble Chromium	Sol.Cr (mg/L)	0.002		0.001	0.311
Soluble Iron	Sol.Fe (mg/L)	0.048		0.045	0.811
Soluble Lead	Sol.Pb (mg/L)	0.004		0.003	0.632
Soluble Manganese	Sol.Mn (mg/L)	0.057		0.024	0.055
Soluble Zinc	Sol.Zn (mg/L)	0.020		0.047	0.000
Soluble Selenium	Sol.Se (mg/L)	<0.002		<0.002	-

¹Nine out of 67 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some 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 II 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. 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.

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. Sixty 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:

- pH, alkalinity (total), chloride, total Kjeldahl nitrogen, ammonium nitrogen, 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 nickel, total zinc, soluble calcium, soluble magnesium, soluble boron, and soluble zinc.

All parameters had significantly higher means downstream than upstream except (pH), which had higher means upstream than downstream.

Out of the 27 parameters listed above, 13 parameters have either IPCB Human Health, General Use, or Secondary Contact Water quality limits. These parameters are:

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

Eleven out of 13 parameters have IPCB Human Health or General Use limit. Ten of the 11 parameters referenced with IPCB Human Health or General Use 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, and soluble zinc.

The percent compliance rate of fecal coliform was 77.8 percent.

Five of the 13 parameters have IPCB Secondary Contact water quality limits, and all five were in total compliance at the downstream location. These parameters were:

- pH, total dissolved solids, fluoride, total nickel, and total zinc.

The remaining eight parameters (chloride, ammonium nitrogen, sulfate, weak acid dissociable cyanide, fecal coliform, gross beta radioactivity, total boron, 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-four water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 20 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- dissolved oxygen, turbidity, ammonium nitrogen, nitrite plus nitrate nitrogen, total suspended solids, sulfate, total cyanide, fluoride, fecal coliform, escherichia coli, total barium, total boron, total copper, total iron, total nickel, soluble barium, soluble boron, soluble chromium, soluble iron, and soluble nickel.

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

- turbidity, ammonium nitrogen, total suspended solids, total barium, total copper, total iron, and soluble barium.

The remaining 13 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- dissolved oxygen, nitrite plus nitrate nitrogen, sulfate, total cyanide, fluoride, fecal coliform, escherichia coli, total boron, total nickel, soluble boron, soluble chromium, soluble iron, and soluble nickel.

Out of the 20 parameters listed above, 8 parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- dissolved oxygen, total cyanide, fluoride, total barium, total copper, total iron, total nickel, and soluble iron.

Seven of the eight parameters referenced with IPCB Secondary Contact limits were in total compliance at the upstream location. These parameters were:

- total cyanide, fluoride, total barium, total copper, total iron, total nickel, and soluble iron.

The percent compliance rate of dissolved oxygen was 91.7 percent. All of the eight parameters referenced with IPCB Secondary Contact water quality limits were in total compliance at the downstream location. These parameters were:

- dissolved oxygen, total cyanide, fluoride, total barium, total copper, total iron, total nickel, and soluble iron.

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-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:

- dissolved oxygen, alkalinity (total), turbidity, nitrite plus nitrate nitrogen, total solids, total suspended solids, total dissolved solids, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, escherichia coli, total calcium, total magnesium, hardness, total barium, total boron, total iron, total zinc, soluble calcium, soluble magnesium, soluble barium, soluble boron, soluble iron, soluble manganese, and soluble zinc.

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

- dissolved oxygen, turbidity, total suspended solids, total barium, total iron, and soluble barium.

The remaining 21 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- alkalinity (total), nitrite plus nitrate nitrogen, total solids, total dissolved solids, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, escherichia coli, total calcium, total magnesium, hardness, total boron, total zinc, soluble calcium, soluble magnesium, soluble boron, soluble iron, soluble manganese, and soluble zinc.

Out of the 27 parameters listed above, 8 parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- dissolved oxygen, total dissolved solids, total cyanide, fluoride, total barium, total iron, total zinc, and soluble iron.

All eight 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 water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 19 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- pH, turbidity, un-ionized ammonia, nitrite plus nitrate nitrogen, total suspended solids, total phosphorus, fluoride, escherichia coli, gross beta radioactivity, chlorophyll *a*, total barium, total boron, total chromium, total iron, total manganese, total zinc, soluble barium, soluble boron, and soluble zinc.

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

- pH, turbidity, un-ionized ammonia, total suspended solids, chlorophyll *a*, total barium, total chromium, total iron, total manganese, and soluble barium.

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

- nitrite plus nitrate nitrogen, total phosphorus, fluoride, escherichia coli, gross beta radioactivity, total boron, total zinc, soluble boron, and soluble zinc.

Out of the 19 parameters listed above, 7 parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- pH, fluoride, gross beta radioactivity, total barium, total boron, total manganese, and soluble zinc.

All seven 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. Fifty-eight water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 24 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, volatile suspended solids, sulfate, total phosphorus, fluoride, fecal coliform, chlorophyll *a*, total barium, total boron, total copper, total iron, total lead, total nickel, total manganese, low level mercury, soluble magnesium, soluble barium, soluble boron, and soluble zinc.

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

- turbidity, total suspended solids, volatile suspended solids, fecal coliform, chlorophyll *a*, total barium, total copper, total iron, total lead, total manganese, low level mercury, and soluble barium.

The remaining 12 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 boron, total nickel, soluble magnesium, soluble boron, and soluble zinc.

Out of the 24 parameters listed above, 7 parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- sulfate, fluoride, fecal coliform, total barium, total boron, total manganese, and soluble zinc.

Six of the seven parameters referenced with IPCB Human Health or General Use limits were in total compliance at the upstream location. These parameters were:

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

The percent compliance rate of fecal coliform was 0.0 percent. Six of the seven parameters referenced with IPCB Human Health or General Use limits were in total compliance at the downstream location. These parameters were:

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

The percent compliance rate of fecal coliform was 41.7 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 at the upstream location of the Hanover Park WRP (Location 63) was taken in 2006, 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 2006

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
DO	Dissolved Oxygen	mg/L	5	(3, 4) ¹
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 ₄ -N	Ammonium Nitrogen	mg/L	(15) ²	None
NH ₃ -N	Un-ionized Ammonia	mg/L	None	0.1
ORG-N	Organic Nitrogen	mg/L	None	None
NO ₂ + NO ₃	Nitrite Plus Nitrate Nitrogen	mg/L	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 ₄	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 2006

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 ⁺⁶	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	$\eta\text{g/L}$	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	(0.037) ³	None
Sol.Cu	Soluble Copper	mg/L	(0.058) ⁴	None
Sol.Cr	Soluble Chromium	mg/L	(1.582) ⁵	None
Sol.Fe	Soluble Iron	mg/L	1	0.5
Sol.Pb	Soluble Lead	mg/L	(0.299) ⁶	None
Sol.Ni	Soluble Nickel	mg/L	(0.246) ⁷	None
Sol.Mn	Soluble Manganese	mg/L	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2006

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	(0.357) ⁸	None
Sol.Se	Soluble Selenium	mg/L	None	None

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

**As Human Health Standard

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

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

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

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

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

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

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

⁸Based 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 ¹	River System
1	Wilmette Harbor*	Auto	GEN	Chicago
2	Outer Drive Bridge*	Auto	GEN	Chicago
3	South District Water Filtration Plant*	Auto	GEN	Chicago
4	O'Brien Locks*	Auto	SEC	Chicago
5	Ohio Street*	Auto	SEC	Chicago
6	Willow Springs Road*	Auto	SEC	Chicago
7	Highway 83 & Archer*	Auto	SEC	Chicago
9	North Side WRP, Outfall*	Auto	EFF	Chicago
10	Stickney(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 Steet, 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 & 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*	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 ¹	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 ¹	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	Demptser 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 ²	Grab	SEC	Des Plaines
94	Empress Casino, Des Plaines River ²	Grab	SEC	Des Plaines
95	I-55, Des Plaines River ²	Grab	SEC	Des Plaines
96	Albany Avenue, North Branch Chicago River	Grab	GEN	Chicago
97	170th Street, Thorn Creek	Grab	GEN	Calumet
98	Halsted Street, South Branch Chicago River*	Grab	SEC	Chicago
99	Archer Avenue, South Fork South Branch Chicago River	Grab	SEC	Chicago
100	Wells Street, Chicago River	Grab	GEN	Chicago
101	Foster Avenue, North Shore Channel	Grab	SEC	Chicago
102	Oakton Street, North Shore Channel	Grab	GEN	Chicago
103	Golf Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
104	Glenview Road, North Branch Chicago River	Grab	GEN	Chicago
105	Frontage Road, Skokie River	Grab	GEN	Chicago

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

No.	Sampling Station	Type Sample	Water Use ¹	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

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

²Kept for Special Studies Separately

*Excluded in 2006 Sampling

APPENDIX AII

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

TABLE AII-1: WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	DO mg/L	Temp °C	pH	Alk mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	8.10	13.2	7.22	147
103 Golf Road, West Fork North Branch Chicago River	8.58	13.4	7.47	178
31 Lake-Cook Road, Middle Fork North Branch	7.15	12.6	7.47	185
104 Glenview Road, North Branch Chicago River	7.98	12.9	7.71	165
32 Lake-Cook Road, Skokie River	7.75	12.9	7.66	184
105 Frontage Road, Skokie River	9.27	13.1	7.68	164
34 Dempster Street, North Branch Chicago River	8.23	12.8	7.74	170
96 Albany Avenue, North Branch Chicago River	9.18	13.0	7.59	173
35 Central Street, North Shore Channel	8.63	18.6	7.70	117
102 Oakton Street, North Shore Channel	8.73	15.0	7.56	134
36 Touhy Avenue, North Shore Channel	7.93	15.6	7.23	144
101 Foster Avenue, North Shore Channel	7.20	15.8	7.13	145
37 Wilson Avenue, North Branch Chicago River	7.83	15.2	7.39	146
73 Diversey Parkway, North Branch Chicago River	7.25	15.0	7.36	146
46 Grand Avenue, North Branch Chicago River	6.85	14.9	7.37	147
74 Lake Shore Drive, Chicago River	9.19	14.0	7.75	120
100 Wells Street, Chicago River	8.68	13.9	7.72	127
39 Madison Street, South Branch Chicago River	7.79	14.0	7.49	142
108 Loomis Street, South Branch Chicago River	7.81	16.7	7.46	143
99 Archer Avenue, South Fork South Branch Chicago River	6.00	18.9	7.38	147
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.44	16.6	7.46	142
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.93	16.8	7.24	159
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.31	15.6	7.24	131
42 Route 83, Chicago Sanitary & Ship Canal	5.43	18.2	6.94	140
48 Stephen Street, Chicago Sanitary & Ship Canal	5.48	16.1	7.11	148
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.70	19.2	7.29	143
Calumet River System				
49 Ewing Avenue, Calumet River	9.50	14.0	7.72	113
50 Burnham Avenue, Wolf Lake	9.63	13.9	8.26	100
55 130th Street, Calumet River	8.45	13.5	7.94	112
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	6.20	13.7	7.43	248
56 Indiana Avenue, Little Calumet River	9.61	14.6	7.81	127
76 Halsted Street, Little Calumet River	6.27	15.3	7.51	162
52 Wentworth Avenue, Little Calumet River	7.49	14.1	7.75	222
54 Joe Orr Road, Thorn Creek	7.72	15.1	7.32	189
97 170th Street, Thorn Creek	7.15	14.7	7.70	205
57 Ashland Avenue, Little Calumet River	7.27	15.7	7.74	208
58 Ashland Avenue, Calumet Sag Channel	7.15	14.3	7.40	167
59 Cicero Avenue, Calumet Sag Channel	6.24	16.6	7.38	171
43 Route 83, Calumet Sag Channel	6.70	15.1	7.55	168
Des Plaines River System				
90 Route 19, Poplar Creek	9.78	13.2	7.80	190
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	8.28	13.8	7.43	160
64 Lake Street, West Branch DuPage River	8.68	14.5	7.64	184
79 Higgins Road, Salt Creek	8.78	18.6	7.94	155
80 Arlington Heights Road, Salt Creek	8.77	14.6	7.50	142
18 Devon Avenue, Salt Creek	8.89	14.0	7.55	142
24 Wolf Road, Salt Creek	8.51	13.5	7.31	145
109 Brookfield Avenue, Salt Creek	7.58	12.8	7.40	144
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	8.43	13.3	7.40	121
78 Wille Road, Higgins Creek	9.04	16.1	7.54	179
12 Lake-Cook Road, Buffalo Creek	8.69	11.1	7.73	181
13 Lake-Cook Road, Des Plaines River	8.76	12.9	7.68	189
17 Oakton Steet, Des Plaines River	8.35	13.6	7.57	179
19 Belmont Avenue, Des Plaines River	8.43	14.2	7.67	177
20 Roosevelt Road, Des Plaines River	8.16	13.8	7.89	172
22 Ogden Avenue, Des Plaines River	9.00	13.0	7.50	163
23 Willow Springs Road, Des Plaines River	8.24	12.7	7.62	162
29 Stephen Street, Des Plaines River	8.90	13.4	7.64	169
91 Material Service Road, Des Plaines River	9.68	13.8	7.87	173
110 Springinguth Road, West Branch DuPage River	6.23	13.2	7.54	191

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Cl mg/L	Turb NTU	TKN mg/L	NH ₄ -N mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	339	66.6	1.90	0.714
103 Golf Road, West Fork North Branch Chicago River	344	32.2	1.36	0.251
31 Lake-Cook Road, Middle Fork North Branch	258	46.2	1.09	0.119
104 Glenview Road, North Branch Chicago River	222	32.9	1.54	0.198
32 Lake-Cook Road, Skokie River	214	37.0	1.29	0.213
105 Frontage Road, Skokie River	207	16.5	1.32	0.114
34 Dempster Street, North Branch Chicago River	254	28.9	1.43	0.201
96 Albany Avenue, North Branch Chicago River	256	23.5	1.27	0.108
35 Central Street, North Shore Channel	37	9.3	0.57	0.139
102 Oakton Street, North Shore Channel	90	13.2	1.41	0.553
36 Touhy Avenue, North Shore Channel	116	5.8	1.99	0.685
101 Foster Avenue, North Shore Channel	134	5.9	2.07	0.876
37 Wilson Avenue, North Branch Chicago River	145	9.3	1.97	0.770
73 Diversey Parkway, North Branch Chicago River	140	10.4	1.71	0.643
46 Grand Avenue, North Branch Chicago River	154	13.4	1.85	0.638
74 Lake Shore Drive, Chicago River	64	2.8	0.48	0.105
100 Wells Street, Chicago River	89	3.5	0.87	0.229
39 Madison Street, South Branch Chicago River	125	8.0	1.46	0.541
108 Loomis Street, South Branch Chicago River	143	11.3	1.71	0.730
99 Archer Avenue, South Fork South Branch Chicago River	110	8.8	1.49	0.620
40 Damen Avenue, Chicago Sanitary & Ship Canal	137	11.4	1.64	0.618
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	134	13.1	1.69	0.592
41 Harlem Avenue, Chicago Sanitary & Ship Canal	144	6.7	1.52	0.356
42 Route 83, Chicago Sanitary & Ship Canal	149	5.4	1.58	0.465
48 Stephen Street, Chicago Sanitary & Ship Canal	150	11.8	1.71	0.527
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	156	11.2	1.60	0.471
Calumet River System				
49 Ewing Avenue, Calumet River	44	7.2	0.38	0.057
50 Burnham Avenue, Wolf Lake	47	2.9	0.74	0.098
55 130th Street, Calumet River	83	6.3	0.76	0.180
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	155	12.8	3.19	1.434
56 Indiana Avenue, Little Calumet River	98	19.6	1.09	0.193
76 Halsted Street, Little Calumet River	153	9.3	1.35	0.259
52 Wentworth Avenue, Little Calumet River	122	33.6	1.64	0.178
54 Joe Orr Road, Thorn Creek	183	5.8	1.42	0.153
97 170th Street, Thorn Creek	182	26.5	1.28	0.135
57 Ashland Avenue, Little Calumet River	174	24.3	1.43	0.154
58 Ashland Avenue, Calumet Sag Channel	161	11.5	1.47	0.302
59 Cicero Avenue, Calumet Sag Channel	155	14.3	1.50	0.278
43 Route 83, Calumet Sag Channel	150	18.6	1.37	0.261
Des Plaines River System				
90 Route 19, Poplar Creek	279	20.3	1.13	0.113
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	193	7.4	1.72	0.122
64 Lake Street, West Branch DuPage River	201	25.4	1.84	0.252
79 Higgins Road, Salt Creek	287	30.4	1.45	0.111
80 Arlington Heights Road, Salt Creek	280	9.8	1.37	0.114
18 Devon Avenue, Salt Creek	283	11.1	1.38	0.124
24 Wolf Road, Salt Creek	241	28.7	1.38	0.153
109 Brookfield Avenue, Salt Creek	257	32.5	1.53	0.154
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	571	32.5	1.38	0.199
78 Wille Road, Higgins Creek	217	4.8	1.84	0.405
12 Lake-Cook Road, Buffalo Creek	259	25.6	1.21	0.117
13 Lake-Cook Road, Des Plaines River	210	20.7	1.40	0.086
17 Oakton Steet, Des Plaines River	245	19.5	1.39	0.115
19 Belmont Avenue, Des Plaines River	250	20.7	1.46	0.124
20 Roosevelt Road, Des Plaines River	249	21.3	1.37	0.107
22 Ogden Avenue, Des Plaines River	244	28.3	1.45	0.122
23 Willow Springs Road, Des Plaines River	234	26.3	1.50	0.147
29 Stephen Street, Des Plaines River	236	26.2	1.42	0.133
91 Material Service Road, Des Plaines River	242	22.1	1.49	0.137
110 Springinsguth Road, West Branch DuPage River	466	19.1	2.35	0.555

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	NH ₃ -N* mg/L	ORG-N mg/L	NO ₂ + NO ₃ mg/L	TS mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	1.19	3.68	900
103 Golf Road, West Fork North Branch Chicago River	0.002	1.11	3.11	919
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.97	0.42	794
104 Glenview Road, North Branch Chicago River	0.003	1.34	3.92	704
32 Lake-Cook Road, Skokie River	0.003	1.08	3.15	709
105 Frontage Road, Skokie River	0.003	1.20	5.33	654
34 Dempster Street, North Branch Chicago River	0.005	1.23	3.74	752
96 Albany Avenue, North Branch Chicago River	0.003	1.16	3.83	802
35 Central Street, North Shore Channel	0.002	0.44	0.34	229
102 Oakton Street, North Shore Channel	0.004	0.86	3.81	381
36 Touhy Avenue, North Shore Channel	0.005	1.32	6.01	475
101 Foster Avenue, North Shore Channel	0.005	1.20	7.19	491
37 Wilson Avenue, North Branch Chicago River	0.007	1.20	6.94	527
73 Diversey Parkway, North Branch Chicago River	0.016	1.07	6.41	522
46 Grand Avenue, North Branch Chicago River	0.005	1.22	6.22	555
74 Lake Shore Drive, Chicago River	0.002	0.37	1.04	256
100 Wells Street, Chicago River	0.003	0.64	2.15	337
39 Madison Street, South Branch Chicago River	0.007	0.92	4.03	456
108 Loomis Street, South Branch Chicago River	0.009	0.98	4.30	497
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.87	3.67	425
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	1.03	4.25	481
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	1.09	3.91	481
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	1.16	7.58	529
42 Route 83, Chicago Sanitary & Ship Canal	0.002	1.12	6.05	544
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	1.18	5.71	583
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	1.12	5.91	581
Calumet River System				
49 Ewing Avenue, Calumet River	0.001	0.32	0.38	245
50 Burnham Avenue, Wolf Lake	0.012	0.64	0.09	241
55 130th Street, Calumet River	0.005	0.58	0.71	354
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.012	1.76	4.68	865
56 Indiana Avenue, Little Calumet River	0.008	0.90	1.86	428
76 Halsted Street, Little Calumet River	0.003	1.10	5.91	590
52 Wentworth Avenue, Little Calumet River	0.004	1.46	4.25	700
54 Joe Orr Road, Thorn Creek	0.003	1.27	9.88	1490
97 170th Street, Thorn Creek	0.003	1.14	5.32	1099
57 Ashland Avenue, Little Calumet River	0.004	1.28	4.08	877
58 Ashland Avenue, Calumet Sag Channel	0.002	1.17	5.66	638
59 Cicero Avenue, Calumet Sag Channel	0.003	1.22	5.32	683
43 Route 83, Calumet Sag Channel	0.004	1.11	4.78	642
Des Plaines River System				
90 Route 19, Poplar Creek	0.003	1.02	0.53	804
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.001	1.59	8.57	656
64 Lake Street, West Branch DuPage River	0.003	1.59	8.38	683
79 Higgins Road, Salt Creek	0.004	1.33	0.26	804
80 Arlington Heights Road, Salt Creek	0.001	1.26	6.77	788
18 Devon Avenue, Salt Creek	0.002	1.26	6.92	806
24 Wolf Road, Salt Creek	0.002	1.22	6.22	737
109 Brookfield Avenue, Salt Creek	0.002	1.38	5.67	765
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.002	1.18	0.57	1163
78 Wille Road, Higgins Creek	0.005	1.43	5.46	712
12 Lake-Cook Road, Buffalo Creek	0.003	1.09	0.56	819
13 Lake-Cook Road, Des Plaines River	0.001	1.32	6.56	736
17 Oakton Steet, Des Plaines River	0.002	1.27	5.24	777
19 Belmont Avenue, Des Plaines River	0.002	1.33	4.86	779
20 Roosevelt Road, Des Plaines River	0.003	1.26	4.54	771
22 Ogden Avenue, Des Plaines River	0.002	1.33	4.89	759
23 Willow Springs Road, Des Plaines River	0.003	1.35	4.82	744
29 Stephen Street, Des Plaines River	0.002	1.28	5.08	758
91 Material Service Road, Des Plaines River	0.004	1.36	4.86	771
110 Springinsguth Road, West Branch DuPage River	0.007	1.80	0.96	1173

ND = No Data

*Un-ionized Ammonia

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	TSS mg/L	VSS mg/L	TDS mg/L	Phenol µg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	93.4	13.60	807	0.8
103 Golf Road, West Fork North Branch Chicago River	34.0	7.42	885	1.1
31 Lake-Cook Road, Middle Fork North Branch	69.3	11.91	724	0.3
104 Glenview Road, North Branch Chicago River	50.1	11.67	654	0.3
32 Lake-Cook Road, Skokie River	47.9	9.08	661	0.3
105 Frontage Road, Skokie River	23.8	8.50	630	1.2
34 Dempster Street, North Branch Chicago River	39.8	11.75	712	0.3
96 Albany Avenue, North Branch Chicago River	28.3	6.25	773	0.3
35 Central Street, North Shore Channel	9.4	3.11	219	0.3
102 Oakton Street, North Shore Channel	16.5	5.33	364	1.0
36 Touhy Avenue, North Shore Channel	11.7	5.08	464	0.5
101 Foster Avenue, North Shore Channel	12.3	5.33	479	1.0
37 Wilson Avenue, North Branch Chicago River	14.3	5.58	513	1.0
73 Diversey Parkway, North Branch Chicago River	15.3	4.83	507	1.0
46 Grand Avenue, North Branch Chicago River	17.3	5.83	538	1.3
74 Lake Shore Drive, Chicago River	7.1	4.82	249	0.0
100 Wells Street, Chicago River	9.0	6.83	328	0.3
39 Madison Street, South Branch Chicago River	14.5	6.92	441	0.0
108 Loomis Street, South Branch Chicago River	16.2	6.83	481	0.5
99 Archer Avenue, South Fork South Branch Chicago River	12.4	6.29	413	0.7
40 Damen Avenue, Chicago Sanitary & Ship Canal	17.8	8.00	463	0.7
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.0	7.15	462	1.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	11.5	5.77	518	0.5
42 Route 83, Chicago Sanitary & Ship Canal	11.5	6.69	532	0.2
48 Stephen Street, Chicago Sanitary & Ship Canal	18.2	7.62	565	0.0
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	15.7	4.92	566	0.8
Calumet River System				
49 Ewing Avenue, Calumet River	7.3	2.09	237	0.9
50 Burnham Avenue, Wolf Lake	6.1	4.00	235	0.0
55 130th Street, Calumet River	8.5	2.55	345	0.4
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	21.0	9.18	844	1.9
56 Indiana Avenue, Little Calumet River	24.4	5.27	404	0.3
76 Halsted Street, Little Calumet River	12.9	4.91	577	0.9
52 Wentworth Avenue, Little Calumet River	44.1	7.27	656	0.8
54 Joe Orr Road, Thorn Creek	9.9	2.89	1480	0.0
97 170th Street, Thorn Creek	32.4	5.82	1066	0.0
57 Ashland Avenue, Little Calumet River	26.5	6.18	851	0.3
58 Ashland Avenue, Calumet Sag Channel	16.6	5.73	621	0.3
59 Cicero Avenue, Calumet Sag Channel	24.9	6.55	658	0.5
43 Route 83, Calumet Sag Channel	20.1	4.36	622	0.4
Des Plaines River System				
90 Route 19, Poplar Creek	25.2	6.17	779	0.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	10.8	4.33	645	0.0
64 Lake Street, West Branch DuPage River	34.0	8.58	649	0.3
79 Higgins Road, Salt Creek	31.2	9.00	773	0.4
80 Arlington Heights Road, Salt Creek	10.2	5.08	778	0.5
18 Devon Avenue, Salt Creek	14.1	6.00	792	0.0
24 Wolf Road, Salt Creek	39.4	9.42	698	1.2
109 Brookfield Avenue, Salt Creek	42.7	9.25	722	0.9
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	45.3	11.00	1118	1.9
78 Wille Road, Higgins Creek	5.4	3.17	706	1.0
12 Lake-Cook Road, Buffalo Creek	29.4	7.44	790	0.9
13 Lake-Cook Road, Des Plaines River	27.3	8.33	709	0.0
17 Oakton Steet, Des Plaines River	26.1	7.58	751	0.3
19 Belmont Avenue, Des Plaines River	29.4	8.17	749	1.3
20 Roosevelt Road, Des Plaines River	26.9	8.00	744	0.6
22 Ogden Avenue, Des Plaines River	36.3	8.75	723	0.7
23 Willow Springs Road, Des Plaines River	27.8	7.75	716	2.1
29 Stephen Street, Des Plaines River	29.3	8.83	729	0.9
91 Material Service Road, Des Plaines River	27.7	7.50	743	1.3
110 Springinsguth Road, West Branch DuPage River	17.9	5.91	1155	1.3

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	SO ₄ mg/L	FOG mg/L	TP mg/L	CN mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	53.3	ND	0.964	0.001
103 Golf Road, West Fork North Branch Chicago River	77.9	ND	0.572	0.001
31 Lake-Cook Road, Middle Fork North Branch	68.0	ND	0.158	0.000
104 Glenview Road, North Branch Chicago River	66.8	ND	0.936	0.000
32 Lake-Cook Road, Skokie River	61.6	ND	0.599	0.000
105 Frontage Road, Skokie River	67.8	ND	1.174	0.000
34 Dempster Street, North Branch Chicago River	71.5	ND	0.840	0.000
96 Albany Avenue, North Branch Chicago River	73.1	ND	0.760	0.001
35 Central Street, North Shore Channel	28.7	ND	0.056	0.000
102 Oakton Street, North Shore Channel	43.8	0.42	0.632	0.001
36 Touhy Avenue, North Shore Channel	50.8	0.27	1.033	0.001
101 Foster Avenue, North Shore Channel	51.3	0.67	1.384	0.001
37 Wilson Avenue, North Branch Chicago River	58.0	0.42	1.191	0.001
73 Diversey Parkway, North Branch Chicago River	55.8	0.83	0.986	0.001
46 Grand Avenue, North Branch Chicago River	57.4	0.42	1.004	0.001
74 Lake Shore Drive, Chicago River	36.6	ND	0.125	0.000
100 Wells Street, Chicago River	39.1	ND	0.309	0.000
39 Madison Street, South Branch Chicago River	49.6	0.00	0.661	0.000
108 Loomis Street, South Branch Chicago River	52.2	0.00	0.723	0.001
99 Archer Avenue, South Fork South Branch Chicago River	51.1	0.00	0.590	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	52.0	0.00	0.702	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	52.5	0.00	0.657	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	72.9	0.00	0.863	0.003
42 Route 83, Chicago Sanitary & Ship Canal	75.3	0.00	0.616	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	90.5	0.00	0.909	0.003
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	86.6	0.36	0.927	0.003
Calumet River System				
49 Ewing Avenue, Calumet River	29.9	ND	0.044	0.000
50 Burnham Avenue, Wolf Lake	39.4	ND	0.045	0.000
55 130th Street, Calumet River	60.7	ND	0.038	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	262.4	1.00	0.699	0.003
56 Indiana Avenue, Little Calumet River	74.7	1.18	0.359	0.000
76 Halsted Street, Little Calumet River	91.0	1.18	1.835	0.002
52 Wentworth Avenue, Little Calumet River	130.0	ND	0.645	0.004
54 Joe Orr Road, Thorn Creek	620.0	ND	2.038	0.002
97 170th Street, Thorn Creek	419.3	ND	1.170	0.000
57 Ashland Avenue, Little Calumet River	241.5	ND	0.764	0.002
58 Ashland Avenue, Calumet Sag Channel	107.7	0.73	1.755	0.002
59 Cicero Avenue, Calumet Sag Channel	123.1	0.55	1.802	0.002
43 Route 83, Calumet Sag Channel	117.1	0.73	1.318	0.001
Des Plaines River System				
90 Route 19, Poplar Creek	71.5	ND	0.116	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	81.8	ND	2.270	0.004
64 Lake Street, West Branch DuPage River	81.9	ND	1.911	0.002
79 Higgins Road, Salt Creek	81.7	ND	0.149	0.000
80 Arlington Heights Road, Salt Creek	85.0	ND	1.791	0.001
18 Devon Avenue, Salt Creek	84.5	ND	1.882	0.001
24 Wolf Road, Salt Creek	87.0	ND	1.471	0.000
109 Brookfield Avenue, Salt Creek	85.2	ND	1.355	0.001
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	47.1	ND	0.123	0.003
78 Wille Road, Higgins Creek	91.7	ND	0.663	0.002
12 Lake-Cook Road, Buffalo Creek	111.5	ND	0.122	0.000
13 Lake-Cook Road, Des Plaines River	97.0	ND	1.075	0.000
17 Oakton Steet, Des Plaines River	92.5	ND	0.873	0.001
19 Belmont Avenue, Des Plaines River	90.7	ND	0.816	0.001
20 Roosevelt Road, Des Plaines River	89.7	ND	0.700	0.001
22 Ogden Avenue, Des Plaines River	90.9	ND	0.923	0.001
23 Willow Springs Road, Des Plaines River	88.2	ND	0.882	0.000
29 Stephen Street, Des Plaines River	91.1	ND	0.930	0.000
91 Material Service Road, Des Plaines River	93.7	ND	0.915	0.000
110 Springinsguth Road, West Branch DuPage River	112.4	ND	0.184	0.002

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	WAD-CN mg/L	F mg/L	TOC mg/L	FC* cfu/100mL
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.334	4.58	3196
103 Golf Road, West Fork North Branch Chicago River	0.001	0.370	4.08	893
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.296	6.17	943
104 Glenview Road, North Branch Chicago River	0.001	0.457	4.63	855
32 Lake-Cook Road, Skokie River	0.000	0.379	5.43	657
105 Frontage Road, Skokie River	0.001	0.538	4.43	119
34 Dempster Street, North Branch Chicago River	0.001	0.438	4.50	1026
96 Albany Avenue, North Branch Chicago River	0.001	0.436	4.51	860
35 Central Street, North Shore Channel	0.000	0.181	1.92	90
102 Oakton Street, North Shore Channel	0.001	0.456	3.38	1181
36 Touhy Avenue, North Shore Channel	0.001	0.662	4.12	8550
101 Foster Avenue, North Shore Channel	0.001	0.683	4.26	7628
37 Wilson Avenue, North Branch Chicago River	0.001	0.634	4.32	6033
73 Diversey Parkway, North Branch Chicago River	0.001	0.615	4.08	4237
46 Grand Avenue, North Branch Chicago River	0.001	0.623	4.25	2054
74 Lake Shore Drive, Chicago River	0.000	0.196	1.75	31
100 Wells Street, Chicago River	0.000	0.297	2.27	190
39 Madison Street, South Branch Chicago River	0.001	0.462	3.29	892
108 Loomis Street, South Branch Chicago River	0.001	0.489	3.35	445
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.461	3.27	493
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.468	3.37	523
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.481	3.78	425
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.655	4.20	3898
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.701	4.40	1356
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.653	4.58	914
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.662	4.41	316
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.156	1.43	11
50 Burnham Avenue, Wolf Lake	0.000	0.247	3.81	21
55 130th Street, Calumet River	0.000	0.253	2.62	24
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.809	7.45	420
56 Indiana Avenue, Little Calumet River	0.000	0.324	3.39	89
76 Halsted Street, Little Calumet River	0.001	0.602	4.40	2159
52 Wentworth Avenue, Little Calumet River	0.001	2.962	9.02	956
54 Joe Orr Road, Thorn Creek	0.001	0.659	5.33	3309
97 170th Street, Thorn Creek	0.001	0.539	6.26	642
57 Ashland Avenue, Little Calumet River	0.001	1.115	5.67	431
58 Ashland Avenue, Calumet Sag Channel	0.001	0.630	4.65	1580
59 Cicero Avenue, Calumet Sag Channel	0.001	0.639	4.77	539
43 Route 83, Calumet Sag Channel	0.001	0.562	4.77	97
Des Plaines River System				
90 Route 19, Poplar Creek	0.001	0.208	5.75	264
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.002	0.629	6.83	857
64 Lake Street, West Branch DuPage River	0.001	0.529	6.23	949
79 Higgins Road, Salt Creek	0.001	0.213	5.60	153
80 Arlington Heights Road, Salt Creek	0.001	0.523	5.00	417
18 Devon Avenue, Salt Creek	0.001	0.534	4.90	946
24 Wolf Road, Salt Creek	0.001	0.480	4.68	1303
109 Brookfield Avenue, Salt Creek	0.001	0.459	4.65	1618
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.220	5.13	1915
78 Wille Road, Higgins Creek	0.001	0.959	5.59	275
12 Lake-Cook Road, Buffalo Creek	0.000	0.191	5.94	236
13 Lake-Cook Road, Des Plaines River	0.001	0.425	7.21	362
17 Oakton Steet, Des Plaines River	0.001	0.369	5.40	616
19 Belmont Avenue, Des Plaines River	0.001	0.468	5.56	525
20 Roosevelt Road, Des Plaines River	0.001	0.452	5.52	897
22 Ogden Avenue, Des Plaines River	0.001	0.447	5.14	1509
23 Willow Springs Road, Des Plaines River	0.001	0.440	5.20	1092
29 Stephen Street, Des Plaines River	0.001	0.453	5.12	617
91 Material Service Road, Des Plaines River	0.001	0.443	5.09	327
110 Springinsguth Road, West Branch DuPage River	0.001	0.240	12.02	3225

ND = No Data
*Geometric Mean

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	EColi* cfu/100mL	Ca mg/L	Mg mg/L	Hard mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2068	62.0	25.7	261
103 Golf Road, West Fork North Branch Chicago River	374	73.9	29.7	307
31 Lake-Cook Road, Middle Fork North Branch	799	62.9	28.9	276
104 Glenview Road, North Branch Chicago River	291	62.3	27.1	267
32 Lake-Cook Road, Skokie River	147	68.5	30.3	296
105 Frontage Road, Skokie River	71	62.1	26.5	264
34 Dempster Street, North Branch Chicago River	840	65.9	27.9	279
96 Albany Avenue, North Branch Chicago River	470	67.9	28.3	286
35 Central Street, North Shore Channel	222	37.5	12.5	145
102 Oakton Street, North Shore Channel	782	47.7	16.7	188
36 Touhy Avenue, North Shore Channel	5772	53.3	19.0	211
101 Foster Avenue, North Shore Channel	6040	54.2	19.4	215
37 Wilson Avenue, North Branch Chicago River	5411	56.4	20.9	227
73 Diversey Parkway, North Branch Chicago River	3231	56.2	20.7	226
46 Grand Avenue, North Branch Chicago River	1245	56.9	21.0	229
74 Lake Shore Drive, Chicago River	16	38.4	12.9	149
100 Wells Street, Chicago River	184	44.1	15.3	173
39 Madison Street, South Branch Chicago River	1253	51.3	18.6	205
108 Loomis Street, South Branch Chicago River	599	53.6	19.6	214
99 Archer Avenue, South Fork South Branch Chicago River	448	51.2	18.4	204
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	53.8	19.6	215
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	331	51.9	18.6	206
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3170	55.2	20.1	220
42 Route 83, Chicago Sanitary & Ship Canal	1351	56.3	20.4	225
48 Stephen Street, Chicago Sanitary & Ship Canal	1077	59.5	21.7	238
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	323	58.5	21.3	234
Calumet River System				
49 Ewing Avenue, Calumet River	10	35.9	11.5	137
50 Burnham Avenue, Wolf Lake	19	30.9	11.9	126
55 130th Street, Calumet River	16	42.6	14.2	165
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	262	98.0	48.7	445
56 Indiana Avenue, Little Calumet River	181	49.6	17.6	196
76 Halsted Street, Little Calumet River	2372	65.8	22.6	258
52 Wentworth Avenue, Little Calumet River	829	88.1	33.9	360
54 Joe Orr Road, Thorn Creek	2124	85.4	36.3	363
97 170th Street, Thorn Creek	364	87.7	37.7	374
57 Ashland Avenue, Little Calumet River	288	86.4	35.3	361
58 Ashland Avenue, Calumet Sag Channel	1259	68.3	24.2	270
59 Cicero Avenue, Calumet Sag Channel	396	71.3	25.8	284
43 Route 83, Calumet Sag Channel	24	69.4	25.4	278
Des Plaines River System				
90 Route 19, Poplar Creek	514	70.9	30.6	303
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	675	65.8	24.3	265
64 Lake Street, West Branch DuPage River	1451	63.7	23.6	256
79 Higgins Road, Salt Creek	22	63.3	26.4	267
80 Arlington Heights Road, Salt Creek	427	64.5	24.9	263
18 Devon Avenue, Salt Creek	530	65.4	25.2	267
24 Wolf Road, Salt Creek	711	64.0	25.6	265
109 Brookfield Avenue, Salt Creek	723	63.1	25.3	262
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1217	54.3	18.5	212
78 Wille Road, Higgins Creek	207	69.4	25.1	277
12 Lake-Cook Road, Buffalo Creek	216	75.3	33.1	324
13 Lake-Cook Road, Des Plaines River	398	73.3	32.7	318
17 Oakton Steet, Des Plaines River	555	69.1	30.7	299
19 Belmont Avenue, Des Plaines River	839	69.2	29.7	295
20 Roosevelt Road, Des Plaines River	1165	68.6	29.3	292
22 Ogden Avenue, Des Plaines River	1618	65.2	27.3	275
23 Willow Springs Road, Des Plaines River	855	64.5	27.4	274
29 Stephen Street, Des Plaines River	431	69.8	29.5	295
91 Material Service Road, Des Plaines River	381	71.0	30.3	302
110 Springinsguth Road, West Branch DuPage River	2664	85.6	30.4	339

ND = No Data
*Geometric Mean

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Alpha pCi/L	Beta pCi/L	Chlrphl μg/L	Bnzn μg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	6.01	11.59	10.6	0.000
103 Golf Road, West Fork North Branch Chicago River	5.73	9.95	13.4	0.000
31 Lake-Cook Road, Middle Fork North Branch	4.94	7.40	12.0	0.000
104 Glenview Road, North Branch Chicago River	5.40	9.08	19.7	0.000
32 Lake-Cook Road, Skokie River	5.04	8.19	7.6	0.000
105 Frontage Road, Skokie River	4.82	9.65	32.9	0.000
34 Dempster Street, North Branch Chicago River	5.01	9.39	16.7	0.000
96 Albany Avenue, North Branch Chicago River	5.04	7.91	14.0	0.000
35 Central Street, North Shore Channel	3.07	4.50	4.5	0.000
102 Oakton Street, North Shore Channel	3.56	6.97	22.6	0.000
36 Touhy Avenue, North Shore Channel	3.73	7.91	2.0	0.000
101 Foster Avenue, North Shore Channel	ND	ND	1.6	0.000
37 Wilson Avenue, North Branch Chicago River	ND	ND	4.7	0.000
73 Diversey Parkway, North Branch Chicago River	ND	ND	4.3	0.000
46 Grand Avenue, North Branch Chicago River	ND	ND	6.1	0.000
74 Lake Shore Drive, Chicago River	3.09	4.54	1.4	0.000
100 Wells Street, Chicago River	3.41	5.22	2.5	0.000
39 Madison Street, South Branch Chicago River	ND	ND	4.4	0.000
108 Loomis Street, South Branch Chicago River	ND	ND	6.0	0.000
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	5.7	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	5.4	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.88	6.97	4.6	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.92	8.33	2.6	0.000
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	3.8	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	3.5	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.11	8.31	3.9	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	3.66	5.39	1.4	0.000
50 Burnham Avenue, Wolf Lake	3.44	6.10	4.7	0.000
55 130th Street, Calumet River	3.49	6.50	3.3	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	27.4	0.000
56 Indiana Avenue, Little Calumet River	3.65	7.82	25.8	0.000
76 Halsted Street, Little Calumet River	4.08	8.96	8.1	0.000
52 Wentworth Avenue, Little Calumet River	4.24	10.37	4.3	0.000
54 Joe Orr Road, Thorn Creek	6.25	10.91	3.7	0.000
97 170th Street, Thorn Creek	5.38	10.72	5.3	0.000
57 Ashland Avenue, Little Calumet River	5.09	10.20	4.7	0.000
58 Ashland Avenue, Calumet Sag Channel	ND	ND	9.5	0.000
59 Cicero Avenue, Calumet Sag Channel	ND	ND	9.0	0.000
43 Route 83, Calumet Sag Channel	ND	ND	6.3	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	5.66	7.25	13.9	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	4.98	9.90	5.4	0.000
64 Lake Street, West Branch DuPage River	5.10	10.36	20.2	0.000
79 Higgins Road, Salt Creek	5.27	7.71	33.9	0.000
80 Arlington Heights Road, Salt Creek	5.59	10.09	16.5	0.000
18 Devon Avenue, Salt Creek	5.51	9.35	17.6	0.000
24 Wolf Road, Salt Creek	5.00	11.12	12.0	0.000
109 Brookfield Avenue, Salt Creek	5.20	10.50	16.1	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	6.74	8.79	11.9	0.000
78 Wille Road, Higgins Creek	4.78	12.65	3.0	0.000
12 Lake-Cook Road, Buffalo Creek	5.13	7.37	20.2	0.000
13 Lake-Cook Road, Des Plaines River	4.86	10.05	16.9	0.000
17 Oakton Steet, Des Plaines River	4.97	9.12	13.0	0.000
19 Belmont Avenue, Des Plaines River	5.06	10.24	12.3	0.000
20 Roosevelt Road, Des Plaines River	5.29	9.69	11.4	0.000
22 Ogden Avenue, Des Plaines River	4.95	9.32	15.8	0.000
23 Willow Springs Road, Des Plaines River	5.06	9.51	13.5	0.000
29 Stephen Street, Des Plaines River	5.40	10.39	17.5	0.000
91 Material Service Road, Des Plaines River	4.84	9.65	23.8	0.000
110 Springinsguth Road, West Branch DuPage River	7.04	8.04	14.5	0.000

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Ebnzn $\mu\text{g/L}$	Toln $\mu\text{g/L}$	Xyln $\mu\text{g/L}$	Ag mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	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
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000
51 IHB 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
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	As mg/L	Ba mg/L	B mg/L	Cd mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.056	0.129	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.052	0.145	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.045	0.118	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.037	0.142	0.000
32 Lake-Cook Road, Skokie River	0.000	0.043	0.135	0.000
105 Frontage Road, Skokie River	0.000	0.030	0.161	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.040	0.143	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.041	0.151	0.000
35 Central Street, North Shore Channel	0.000	0.022	0.037	0.000
102 Oakton Street, North Shore Channel	0.000	0.023	0.117	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.021	0.193	0.000
101 Foster Avenue, North Shore Channel	0.000	0.021	0.192	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.025	0.173	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.025	0.166	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.026	0.163	0.000
74 Lake Shore Drive, Chicago River	0.000	0.022	0.067	0.001
100 Wells Street, Chicago River	0.000	0.023	0.081	0.001
39 Madison Street, South Branch Chicago River	0.000	0.025	0.128	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.026	0.131	0.001
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.025	0.117	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.027	0.130	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.026	0.126	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.021	0.185	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.020	0.222	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.023	0.212	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.023	0.218	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.022	0.049	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.028	0.115	0.001
55 130th Street, Calumet River	0.000	0.031	0.107	0.001
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.029	0.601	0.001
56 Indiana Avenue, Little Calumet River	0.000	0.031	0.137	0.000
76 Halsted Street, Little Calumet River	0.000	0.022	0.224	0.001
52 Wentworth Avenue, Little Calumet River	0.000	0.043	0.240	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.031	0.404	0.001
97 170th Street, Thorn Creek	0.000	0.041	0.297	0.001
57 Ashland Avenue, Little Calumet River	0.000	0.042	0.258	0.001
58 Ashland Avenue, Calumet Sag Channel	0.000	0.024	0.230	0.000
59 Cicero Avenue, Calumet Sag Channel	0.000	0.028	0.224	0.000
43 Route 83, Calumet Sag Channel	0.000	0.028	0.204	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.001	0.095	0.061	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.030	0.247	0.000
64 Lake Street, West Branch DuPage River	0.000	0.035	0.190	0.000
79 Higgins Road, Salt Creek	0.000	0.044	0.091	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.033	0.191	0.000
18 Devon Avenue, Salt Creek	0.000	0.033	0.196	0.000
24 Wolf Road, Salt Creek	0.000	0.035	0.188	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.036	0.210	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.056	0.083	0.000
78 Wille Road, Higgins Creek	0.000	0.024	0.289	0.000
12 Lake-Cook Road, Buffalo Creek	0.001	0.047	0.107	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.045	0.181	0.000
17 Oakton Steet, Des Plaines River	0.000	0.046	0.155	0.000
19 Belmont Avenue, Des Plaines River	0.001	0.043	0.170	0.000
20 Roosevelt Road, Des Plaines River	0.001	0.044	0.172	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.042	0.183	0.000
23 Willow Springs Road, Des Plaines River	0.001	0.039	0.185	0.000
29 Stephen Street, Des Plaines River	0.000	0.041	0.192	0.000
91 Material Service Road, Des Plaines River	0.000	0.041	0.198	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	0.054	0.079	0.000

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Cu mg/L	Cr mg/L	Cr ⁺⁶ µg/L	Fe mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.012	0.004	1.800	2.559
103 Golf Road, West Fork North Branch Chicago River	0.004	0.002	0.500	1.142
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.003	0.182	1.924
104 Glenview Road, North Branch Chicago River	0.005	0.003	0.667	1.421
32 Lake-Cook Road, Skokie River	0.006	0.003	0.333	1.756
105 Frontage Road, Skokie River	0.003	0.001	0.750	0.591
34 Dempster Street, North Branch Chicago River	0.004	0.002	1.000	1.091
96 Albany Avenue, North Branch Chicago River	0.004	0.002	0.333	0.917
35 Central Street, North Shore Channel	0.001	0.001	0.889	0.322
102 Oakton Street, North Shore Channel	0.003	0.001	0.333	0.394
36 Touhy Avenue, North Shore Channel	0.004	0.001	0.500	0.180
101 Foster Avenue, North Shore Channel	0.003	0.001	0.667	0.214
37 Wilson Avenue, North Branch Chicago River	0.003	0.001	0.667	0.361
73 Diversey Parkway, North Branch Chicago River	0.003	0.001	0.750	0.401
46 Grand Avenue, North Branch Chicago River	0.004	0.002	0.333	0.506
74 Lake Shore Drive, Chicago River	0.002	0.001	0.364	0.099
100 Wells Street, Chicago River	0.004	0.001	0.417	0.178
39 Madison Street, South Branch Chicago River	0.004	0.001	0.750	0.294
108 Loomis Street, South Branch Chicago River	0.005	0.002	0.667	0.397
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.001	0.286	0.384
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.006	0.002	0.500	0.465
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.002	0.538	0.493
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.002	0.462	0.288
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.002	0.769	0.253
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.002	0.846	0.517
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.002	0.642	0.481
Calumet River System				
49 Ewing Avenue, Calumet River	0.004	0.001	0.364	0.308
50 Burnham Avenue, Wolf Lake	0.002	0.000	0.636	0.065
55 130th Street, Calumet River	0.006	0.002	0.818	0.479
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.006	0.003	0.818	1.217
56 Indiana Avenue, Little Calumet River	0.004	0.002	0.818	0.587
76 Halsted Street, Little Calumet River	0.002	0.002	0.818	0.380
52 Wentworth Avenue, Little Calumet River	0.003	0.002	0.727	1.676
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.667	0.317
97 170th Street, Thorn Creek	0.002	0.002	0.818	1.217
57 Ashland Avenue, Little Calumet River	0.002	0.002	1.091	1.126
58 Ashland Avenue, Calumet Sag Channel	0.002	0.001	0.909	0.461
59 Cicero Avenue, Calumet Sag Channel	0.002	0.002	0.727	0.780
43 Route 83, Calumet Sag Channel	0.002	0.002	1.000	0.722
Des Plaines River System				
90 Route 19, Poplar Creek	0.001	0.001	0.417	1.105
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.007	0.001	0.417	0.333
64 Lake Street, West Branch DuPage River	0.006	0.002	0.833	1.017
79 Higgins Road, Salt Creek	0.001	0.002	0.778	1.306
80 Arlington Heights Road, Salt Creek	0.003	0.001	0.167	0.397
18 Devon Avenue, Salt Creek	0.003	0.001	0.333	0.488
24 Wolf Road, Salt Creek	0.006	0.003	0.417	1.287
109 Brookfield Avenue, Salt Creek	0.007	0.007	3.500	1.371
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.006	0.003	0.714	1.375
78 Wille Road, Higgins Creek	0.001	0.001	0.500	0.153
12 Lake-Cook Road, Buffalo Creek	0.001	0.001	0.778	1.086
13 Lake-Cook Road, Des Plaines River	0.002	0.001	0.000	0.920
17 Oakton Steet, Des Plaines River	0.002	0.001	0.167	0.875
19 Belmont Avenue, Des Plaines River	0.003	0.002	0.583	0.892
20 Roosevelt Road, Des Plaines River	0.003	0.002	0.417	0.871
22 Ogden Avenue, Des Plaines River	0.004	0.003	0.667	1.161
23 Willow Springs Road, Des Plaines River	0.004	0.003	0.833	0.932
29 Stephen Street, Des Plaines River	0.004	0.004	0.750	0.907
91 Material Service Road, Des Plaines River	0.003	0.002	0.750	0.966
110 Springinguth Road, West Branch DuPage River	0.001	0.001	0.545	1.222

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Pb mg/L	Ni mg/L	Mn mg/L	Hg μg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.007	0.003	0.087	0.000
103 Golf Road, West Fork North Branch Chicago River	0.006	0.002	0.068	0.015
31 Lake-Cook Road, Middle Fork North Branch	0.007	0.002	0.084	0.012
104 Glenview Road, North Branch Chicago River	0.008	0.002	0.072	0.024
32 Lake-Cook Road, Skokie River	0.007	0.002	0.086	0.022
105 Frontage Road, Skokie River	0.006	0.001	0.038	0.011
34 Dempster Street, North Branch Chicago River	0.007	0.002	0.064	0.010
96 Albany Avenue, North Branch Chicago River	0.007	0.002	0.060	0.006
35 Central Street, North Shore Channel	0.003	0.000	0.019	0.007
102 Oakton Street, North Shore Channel	0.004	0.002	0.024	0.009
36 Touhy Avenue, North Shore Channel	0.004	0.002	0.014	0.011
101 Foster Avenue, North Shore Channel	0.004	0.002	0.015	0.011
37 Wilson Avenue, North Branch Chicago River	0.005	0.002	0.022	0.024
73 Diversey Parkway, North Branch Chicago River	0.005	0.002	0.026	0.011
46 Grand Avenue, North Branch Chicago River	0.007	0.004	0.031	0.009
74 Lake Shore Drive, Chicago River	0.004	0.000	0.008	0.005
100 Wells Street, Chicago River	0.010	0.001	0.013	0.016
39 Madison Street, South Branch Chicago River	0.010	0.003	0.022	0.016
108 Loomis Street, South Branch Chicago River	0.011	0.003	0.027	0.024
99 Archer Avenue, South Fork South Branch Chicago River	0.007	0.003	0.026	0.029
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.011	0.003	0.029	0.023
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.011	0.003	0.029	0.025
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.007	0.005	0.030	0.019
42 Route 83, Chicago Sanitary & Ship Canal	0.007	0.005	0.020	0.019
48 Stephen Street, Chicago Sanitary & Ship Canal	0.008	0.004	0.039	0.022
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.005	0.035	0.018
Calumet River System				
49 Ewing Avenue, Calumet River	0.004	0.000	0.017	0.008
50 Burnham Avenue, Wolf Lake	0.003	0.000	0.029	0.015
55 130th Street, Calumet River	0.008	0.001	0.040	0.015
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.013	0.003	0.144	0.034
56 Indiana Avenue, Little Calumet River	0.006	0.002	0.029	0.018
76 Halsted Street, Little Calumet River	0.006	0.002	0.041	0.021
52 Wentworth Avenue, Little Calumet River	0.006	0.002	0.112	0.015
54 Joe Orr Road, Thorn Creek	0.004	0.001	0.050	0.018
97 170th Street, Thorn Creek	0.006	0.004	0.080	0.015
57 Ashland Avenue, Little Calumet River	0.006	0.003	0.087	0.015
58 Ashland Avenue, Calumet Sag Channel	0.006	0.002	0.048	0.015
59 Cicero Avenue, Calumet Sag Channel	0.007	0.003	0.056	0.018
43 Route 83, Calumet Sag Channel	0.008	0.003	0.054	0.010
Des Plaines River System				
90 Route 19, Poplar Creek	0.004	0.001	0.080	0.008
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.005	0.003	0.033	0.008
64 Lake Street, West Branch DuPage River	0.005	0.004	0.065	0.009
79 Higgins Road, Salt Creek	0.006	0.002	0.089	0.000
80 Arlington Heights Road, Salt Creek	0.005	0.002	0.046	0.013
18 Devon Avenue, Salt Creek	0.004	0.002	0.048	0.018
24 Wolf Road, Salt Creek	0.007	0.004	0.061	0.013
109 Brookfield Avenue, Salt Creek	0.007	0.004	0.061	0.013
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.008	0.002	0.107	0.000
78 Wille Road, Higgins Creek	0.004	0.007	0.030	0.013
12 Lake-Cook Road, Buffalo Creek	0.005	0.002	0.107	0.010
13 Lake-Cook Road, Des Plaines River	0.004	0.002	0.067	0.020
17 Oakton Steet, Des Plaines River	0.005	0.002	0.062	0.013
19 Belmont Avenue, Des Plaines River	0.006	0.003	0.061	0.014
20 Roosevelt Road, Des Plaines River	0.007	0.003	0.061	0.013
22 Ogden Avenue, Des Plaines River	0.008	0.004	0.058	0.018
23 Willow Springs Road, Des Plaines River	0.007	0.003	0.054	0.013
29 Stephen Street, Des Plaines River	0.006	0.003	0.051	0.047
91 Material Service Road, Des Plaines River	0.007	0.003	0.054	0.012
110 Springinsguth Road, West Branch DuPage River	0.005	0.002	0.129	0.009

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Hg- ng/L	Zn mg/L	Se mg/L	Sol.Ca mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	5.6	0.045	0.003	57.9
103 Golf Road, West Fork North Branch Chicago River	9.5	0.026	0.001	70.4
31 Lake-Cook Road, Middle Fork North Branch	3.6	0.029	0.001	58.4
104 Glenview Road, North Branch Chicago River	6.8	0.049	0.001	58.1
32 Lake-Cook Road, Skokie River	6.2	0.036	0.001	63.1
105 Frontage Road, Skokie River	3.1	0.029	0.001	59.9
34 Dempster Street, North Branch Chicago River	5.8	0.025	0.001	62.8
96 Albany Avenue, North Branch Chicago River	5.7	0.024	0.001	64.7
35 Central Street, North Shore Channel	1.6	0.011	0.000	35.3
102 Oakton Street, North Shore Channel	4.7	0.027	0.002	45.2
36 Touhy Avenue, North Shore Channel	ND	0.035	0.001	49.8
101 Foster Avenue, North Shore Channel	ND	0.035	0.001	51.5
37 Wilson Avenue, North Branch Chicago River	ND	0.032	0.001	53.4
73 Diversey Parkway, North Branch Chicago River	ND	0.032	0.001	53.7
46 Grand Avenue, North Branch Chicago River	ND	0.041	0.001	54.0
74 Lake Shore Drive, Chicago River	1.3	0.018	0.000	36.7
100 Wells Street, Chicago River	2.1	0.021	0.000	42.3
39 Madison Street, South Branch Chicago River	ND	0.029	0.000	49.0
108 Loomis Street, South Branch Chicago River	ND	0.033	0.000	50.7
99 Archer Avenue, South Fork South Branch Chicago River	ND	0.028	0.000	49.3
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.042	0.000	49.6
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	0.034	0.000	49.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	0.034	0.000	48.1
42 Route 83, Chicago Sanitary & Ship Canal	ND	0.032	0.000	52.8
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.033	0.000	56.2
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	0.038	0.000	55.1
Calumet River System				
49 Ewing Avenue, Calumet River	3.1	0.016	0.000	32.2
50 Burnham Avenue, Wolf Lake	1.8	0.008	0.000	28.7
55 130th Street, Calumet River	4.2	0.053	0.000	38.4
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	0.055	0.000	92.8
56 Indiana Avenue, Little Calumet River	ND	0.021	0.000	45.1
76 Halsted Street, Little Calumet River	ND	0.041	0.000	58.2
52 Wentworth Avenue, Little Calumet River	6.1	0.027	0.000	80.9
54 Joe Orr Road, Thorn Creek	2.5	0.050	0.000	79.6
97 170th Street, Thorn Creek	10.5	0.031	0.000	80.8
57 Ashland Avenue, Little Calumet River	7.6	0.027	0.000	77.8
58 Ashland Avenue, Calumet Sag Channel	ND	0.040	0.000	61.7
59 Cicero Avenue, Calumet Sag Channel	ND	0.037	0.000	65.2
43 Route 83, Calumet Sag Channel	ND	0.034	0.000	63.0
Des Plaines River System				
90 Route 19, Poplar Creek	2.9	0.014	0.000	67.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	4.4	0.039	0.001	63.2
64 Lake Street, West Branch DuPage River	4.0	0.044	0.000	61.2
79 Higgins Road, Salt Creek	4.1	0.015	0.002	60.6
80 Arlington Heights Road, Salt Creek	2.3	0.025	0.000	61.9
18 Devon Avenue, Salt Creek	2.2	0.024	0.000	62.0
24 Wolf Road, Salt Creek	6.2	0.040	0.000	60.7
109 Brookfield Avenue, Salt Creek	8.6	0.040	0.000	59.6
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	7.8	0.042	0.000	52.5
78 Wille Road, Higgins Creek	2.0	0.049	0.001	66.7
12 Lake-Cook Road, Buffalo Creek	3.3	0.017	0.001	70.9
13 Lake-Cook Road, Des Plaines River	3.1	0.024	0.000	69.4
17 Oakton Steet, Des Plaines River	3.6	0.024	0.000	67.1
19 Belmont Avenue, Des Plaines River	3.9	0.033	0.000	66.5
20 Roosevelt Road, Des Plaines River	4.2	0.034	0.000	65.2
22 Ogden Avenue, Des Plaines River	6.9	0.037	0.000	62.8
23 Willow Springs Road, Des Plaines River	5.3	0.034	0.000	62.1
29 Stephen Street, Des Plaines River	6.4	0.033	0.000	66.1
91 Material Service Road, Des Plaines River	6.2	0.033	0.002	67.2
110 Springinsguth Road, West Branch DuPage River	4.2	0.023	0.000	83.4

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Sol.Mg mg/L	Sol.Ag mg/L	Sol.As mg/L	Sol.Ba mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	23.9	0.000	0.000	0.042
103 Golf Road, West Fork North Branch Chicago River	28.7	0.000	0.000	0.044
31 Lake-Cook Road, Middle Fork North Branch	27.0	0.000	0.001	0.035
104 Glenview Road, North Branch Chicago River	25.5	0.000	0.000	0.028
32 Lake-Cook Road, Skokie River	28.3	0.000	0.000	0.035
105 Frontage Road, Skokie River	26.0	0.000	0.000	0.026
34 Dempster Street, North Branch Chicago River	26.8	0.000	0.000	0.033
96 Albany Avenue, North Branch Chicago River	27.3	0.000	0.000	0.034
35 Central Street, North Shore Channel	11.9	0.000	0.000	0.020
102 Oakton Street, North Shore Channel	15.9	0.000	0.000	0.020
36 Touhy Avenue, North Shore Channel	18.0	0.000	0.000	0.019
101 Foster Avenue, North Shore Channel	18.7	0.000	0.000	0.020
37 Wilson Avenue, North Branch Chicago River	20.1	0.000	0.000	0.022
73 Diversey Parkway, North Branch Chicago River	20.0	0.000	0.000	0.021
46 Grand Avenue, North Branch Chicago River	20.1	0.000	0.000	0.021
74 Lake Shore Drive, Chicago River	12.6	0.000	0.000	0.021
100 Wells Street, Chicago River	15.0	0.000	0.000	0.021
39 Madison Street, South Branch Chicago River	18.2	0.000	0.000	0.021
108 Loomis Street, South Branch Chicago River	18.8	0.000	0.000	0.022
99 Archer Avenue, South Fork South Branch Chicago River	18.1	0.000	0.000	0.021
40 Damen Avenue, Chicago Sanitary & Ship Canal	18.4	0.000	0.000	0.021
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.0	0.000	0.000	0.020
41 Harlem Avenue, Chicago Sanitary & Ship Canal	17.9	0.000	0.000	0.016
42 Route 83, Chicago Sanitary & Ship Canal	19.6	0.000	0.000	0.016
48 Stephen Street, Chicago Sanitary & Ship Canal	20.8	0.000	0.000	0.018
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	20.4	0.000	0.000	0.018
Calumet River System				
49 Ewing Avenue, Calumet River	10.5	0.000	0.000	0.019
50 Burnham Avenue, Wolf Lake	11.3	0.000	0.000	0.025
55 130th Street, Calumet River	13.0	0.000	0.000	0.026
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	47.6	0.000	0.000	0.019
56 Indiana Avenue, Little Calumet River	16.3	0.000	0.000	0.026
76 Halsted Street, Little Calumet River	20.7	0.000	0.000	0.017
52 Wentworth Avenue, Little Calumet River	32.0	0.000	0.000	0.033
54 Joe Orr Road, Thorn Creek	34.8	0.000	0.000	0.029
97 170th Street, Thorn Creek	35.7	0.000	0.000	0.033
57 Ashland Avenue, Little Calumet River	32.8	0.000	0.000	0.033
58 Ashland Avenue, Calumet Sag Channel	22.4	0.000	0.000	0.019
59 Cicero Avenue, Calumet Sag Channel	24.1	0.000	0.000	0.021
43 Route 83, Calumet Sag Channel	23.6	0.000	0.000	0.021
Des Plaines River System				
90 Route 19, Poplar Creek	29.5	0.000	0.000	0.085
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	23.9	0.000	0.000	0.027
64 Lake Street, West Branch DuPage River	22.9	0.000	0.000	0.029
79 Higgins Road, Salt Creek	25.4	0.000	0.000	0.037
80 Arlington Heights Road, Salt Creek	24.3	0.000	0.000	0.028
18 Devon Avenue, Salt Creek	24.4	0.000	0.000	0.028
24 Wolf Road, Salt Creek	24.6	0.000	0.000	0.027
109 Brookfield Avenue, Salt Creek	24.1	0.000	0.000	0.027
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	17.7	0.000	0.000	0.048
78 Wille Road, Higgins Creek	24.9	0.000	0.000	0.021
12 Lake-Cook Road, Buffalo Creek	31.8	0.000	0.000	0.041
13 Lake-Cook Road, Des Plaines River	31.7	0.000	0.000	0.038
17 Oakton Steet, Des Plaines River	30.3	0.000	0.000	0.041
19 Belmont Avenue, Des Plaines River	29.0	0.000	0.000	0.037
20 Roosevelt Road, Des Plaines River	28.4	0.000	0.000	0.037
22 Ogden Avenue, Des Plaines River	26.7	0.000	0.000	0.033
23 Willow Springs Road, Des Plaines River	26.8	0.000	0.000	0.033
29 Stephen Street, Des Plaines River	28.4	0.000	0.000	0.034
91 Material Service Road, Des Plaines River	29.1	0.000	0.000	0.033
110 Springinsguth Road, West Branch DuPage River	29.9	0.000	0.000	0.049

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Sol.B mg/L	Sol.Cd mg/L	Sol.Cu mg/L	Sol.Cr mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.126	0.000	0.003	0.000
103 Golf Road, West Fork North Branch Chicago River	0.138	0.001	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.111	0.001	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.133	0.001	0.000	0.000
32 Lake-Cook Road, Skokie River	0.128	0.001	0.001	0.000
105 Frontage Road, Skokie River	0.151	0.001	0.001	0.000
34 Dempster Street, North Branch Chicago River	0.135	0.001	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.141	0.001	0.001	0.000
35 Central Street, North Shore Channel	0.035	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.109	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.180	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.184	0.000	0.002	0.000
37 Wilson Avenue, North Branch Chicago River	0.162	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.155	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.152	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.055	0.000	0.001	0.000
100 Wells Street, Chicago River	0.074	0.000	0.002	0.000
39 Madison Street, South Branch Chicago River	0.118	0.000	0.001	0.001
108 Loomis Street, South Branch Chicago River	0.121	0.000	0.002	0.001
99 Archer Avenue, South Fork South Branch Chicago River	0.114	0.000	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.119	0.000	0.001	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.119	0.000	0.001	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.165	0.000	0.000	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.205	0.000	0.000	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.202	0.000	0.000	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.210	0.000	0.000	0.001
Calumet River System				
49 Ewing Avenue, Calumet River	0.044	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.108	0.000	0.000	0.000
55 130th Street, Calumet River	0.103	0.000	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.578	0.001	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.131	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.218	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.231	0.001	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.391	0.001	0.000	0.000
97 170th Street, Thorn Creek	0.290	0.001	0.000	0.000
57 Ashland Avenue, Little Calumet River	0.247	0.001	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.219	0.001	0.000	0.001
59 Cicero Avenue, Calumet Sag Channel	0.214	0.001	0.000	0.001
43 Route 83, Calumet Sag Channel	0.198	0.001	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.057	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.242	0.000	0.003	0.001
64 Lake Street, West Branch DuPage River	0.186	0.000	0.003	0.001
79 Higgins Road, Salt Creek	0.088	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.186	0.000	0.002	0.000
18 Devon Avenue, Salt Creek	0.190	0.000	0.002	0.001
24 Wolf Road, Salt Creek	0.184	0.000	0.002	0.001
109 Brookfield Avenue, Salt Creek	0.199	0.000	0.001	0.004
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.078	0.001	0.001	0.002
78 Wille Road, Higgins Creek	0.285	0.001	0.000	0.001
12 Lake-Cook Road, Buffalo Creek	0.099	0.000	0.000	0.001
13 Lake-Cook Road, Des Plaines River	0.170	0.001	0.000	0.000
17 Oakton Steet, Des Plaines River	0.151	0.000	0.001	0.001
19 Belmont Avenue, Des Plaines River	0.166	0.000	0.000	0.001
20 Roosevelt Road, Des Plaines River	0.166	0.000	0.001	0.001
22 Ogden Avenue, Des Plaines River	0.184	0.000	0.001	0.001
23 Willow Springs Road, Des Plaines River	0.182	0.000	0.001	0.002
29 Stephen Street, Des Plaines River	0.189	0.000	0.000	0.002
91 Material Service Road, Des Plaines River	0.196	0.000	0.000	0.001
110 Springinsguth Road, West Branch DuPage River	0.077	0.000	0.000	0.001

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Sol.Fe mg/L	Sol.Pb mg/L	Sol.Ni mg/L	Sol.Mn mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.046	0.002	0.001	0.039
103 Golf Road, West Fork North Branch Chicago River	0.037	0.003	0.000	0.041
31 Lake-Cook Road, Middle Fork North Branch	0.063	0.003	0.000	0.045
104 Glenview Road, North Branch Chicago River	0.033	0.003	0.000	0.033
32 Lake-Cook Road, Skokie River	0.062	0.004	0.000	0.051
105 Frontage Road, Skokie River	0.026	0.003	0.000	0.012
34 Dempster Street, North Branch Chicago River	0.033	0.004	0.000	0.033
96 Albany Avenue, North Branch Chicago River	0.050	0.003	0.001	0.031
35 Central Street, North Shore Channel	0.024	0.003	0.000	0.009
102 Oakton Street, North Shore Channel	0.023	0.003	0.001	0.016
36 Touhy Avenue, North Shore Channel	0.031	0.003	0.001	0.009
101 Foster Avenue, North Shore Channel	0.029	0.003	0.001	0.011
37 Wilson Avenue, North Branch Chicago River	0.032	0.003	0.001	0.013
73 Diversey Parkway, North Branch Chicago River	0.035	0.003	0.001	0.018
46 Grand Avenue, North Branch Chicago River	0.033	0.003	0.002	0.022
74 Lake Shore Drive, Chicago River	0.009	0.003	0.002	0.004
100 Wells Street, Chicago River	0.014	0.003	0.000	0.010
39 Madison Street, South Branch Chicago River	0.023	0.004	0.001	0.014
108 Loomis Street, South Branch Chicago River	0.021	0.003	0.001	0.019
99 Archer Avenue, South Fork South Branch Chicago River	0.019	0.003	0.001	0.019
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.021	0.003	0.001	0.021
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.003	0.002	0.019
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.028	0.003	0.004	0.014
42 Route 83, Chicago Sanitary & Ship Canal	0.034	0.003	0.004	0.015
48 Stephen Street, Chicago Sanitary & Ship Canal	0.034	0.003	0.003	0.023
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.033	0.003	0.004	0.026
Calumet River System				
49 Ewing Avenue, Calumet River	0.004	0.002	0.000	0.007
50 Burnham Avenue, Wolf Lake	0.007	0.002	0.000	0.005
55 130th Street, Calumet River	0.008	0.003	0.000	0.011
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.034	0.003	0.002	0.132
56 Indiana Avenue, Little Calumet River	0.007	0.002	0.000	0.009
76 Halsted Street, Little Calumet River	0.032	0.003	0.000	0.025
52 Wentworth Avenue, Little Calumet River	0.061	0.003	0.000	0.084
54 Joe Orr Road, Thorn Creek	0.056	0.003	0.000	0.042
97 170th Street, Thorn Creek	0.036	0.003	0.002	0.051
57 Ashland Avenue, Little Calumet River	0.031	0.003	0.002	0.065
58 Ashland Avenue, Calumet Sag Channel	0.032	0.003	0.000	0.037
59 Cicero Avenue, Calumet Sag Channel	0.038	0.003	0.001	0.040
43 Route 83, Calumet Sag Channel	0.020	0.003	0.001	0.038
Des Plaines River System				
90 Route 19, Poplar Creek	0.050	0.003	0.000	0.047
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.050	0.003	0.001	0.024
64 Lake Street, West Branch DuPage River	0.037	0.004	0.002	0.037
79 Higgins Road, Salt Creek	0.027	0.003	0.000	0.021
80 Arlington Heights Road, Salt Creek	0.039	0.003	0.001	0.014
18 Devon Avenue, Salt Creek	0.038	0.003	0.001	0.017
24 Wolf Road, Salt Creek	0.032	0.003	0.002	0.027
109 Brookfield Avenue, Salt Creek	0.034	0.003	0.002	0.031
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.048	0.004	0.000	0.057
78 Wille Road, Higgins Creek	0.045	0.003	0.007	0.023
12 Lake-Cook Road, Buffalo Creek	0.027	0.003	0.001	0.043
13 Lake-Cook Road, Des Plaines River	0.026	0.004	0.001	0.025
17 Oakton Steet, Des Plaines River	0.035	0.004	0.000	0.032
19 Belmont Avenue, Des Plaines River	0.031	0.003	0.002	0.032
20 Roosevelt Road, Des Plaines River	0.027	0.003	0.001	0.034
22 Ogden Avenue, Des Plaines River	0.035	0.004	0.002	0.026
23 Willow Springs Road, Des Plaines River	0.046	0.003	0.002	0.030
29 Stephen Street, Des Plaines River	0.021	0.003	0.001	0.024
91 Material Service Road, Des Plaines River	0.023	0.003	0.001	0.020
110 Springinsguth Road, West Branch DuPage River	0.250	0.004	0.000	0.116

ND = No Data

TABLE AII-1 (Continue): WATERWAYS SAMPLE MEANS IN 2006

Sampling Station No. Name	Sol.Hg $\mu\text{g/L}$	Sol.Zn mg/L	Sol.Se mg/L
Chicago River System			
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	0.020	0.002
103 Golf Road, West Fork North Branch Chicago River	ND	0.014	0.002
31 Lake-Cook Road, Middle Fork North Branch	ND	0.012	0.002
104 Glenview Road, North Branch Chicago River	ND	0.019	0.004
32 Lake-Cook Road, Skokie River	ND	0.015	0.003
105 Frontage Road, Skokie River	ND	0.022	0.001
34 Dempster Street, North Branch Chicago River	ND	0.016	0.001
96 Albany Avenue, North Branch Chicago River	ND	0.021	0.002
35 Central Street, North Shore Channel	ND	0.010	0.001
102 Oakton Street, North Shore Channel	ND	0.025	0.001
36 Touhy Avenue, North Shore Channel	ND	0.034	0.002
101 Foster Avenue, North Shore Channel	ND	0.034	0.001
37 Wilson Avenue, North Branch Chicago River	ND	0.028	0.002
73 Diversey Parkway, North Branch Chicago River	ND	0.027	0.002
46 Grand Avenue, North Branch Chicago River	ND	0.029	0.001
74 Lake Shore Drive, Chicago River	ND	0.013	0.001
100 Wells Street, Chicago River	ND	0.017	0.002
39 Madison Street, South Branch Chicago River	ND	0.021	0.001
108 Loomis Street, South Branch Chicago River	ND	0.023	0.000
99 Archer Avenue, South Fork South Branch Chicago River	ND	0.020	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.024	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	0.022	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	0.025	0.000
42 Route 83, Chicago Sanitary & Ship Canal	ND	0.026	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.024	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	0.027	0.002
Calumet River System			
49 Ewing Avenue, Calumet River	ND	0.008	0.003
50 Burnham Avenue, Wolf Lake	ND	0.007	0.004
55 130th Street, Calumet River	0.000	0.017	0.003
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.040	0.031	0.002
56 Indiana Avenue, Little Calumet River	0.000	0.013	0.002
76 Halsted Street, Little Calumet River	0.000	0.026	0.003
52 Wentworth Avenue, Little Calumet River	0.000	0.014	0.002
54 Joe Orr Road, Thorn Creek	ND	0.044	0.003
97 170th Street, Thorn Creek	ND	0.021	0.002
57 Ashland Avenue, Little Calumet River	0.000	0.016	0.003
58 Ashland Avenue, Calumet Sag Channel	0.050	0.030	0.002
59 Cicero Avenue, Calumet Sag Channel	0.000	0.025	0.003
43 Route 83, Calumet Sag Channel	0.000	0.024	0.003
Des Plaines River System			
90 Route 19, Poplar Creek	ND	0.007	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	0.034	0.000
64 Lake Street, West Branch DuPage River	ND	0.029	0.000
79 Higgins Road, Salt Creek	ND	0.007	0.001
80 Arlington Heights Road, Salt Creek	ND	0.022	0.001
18 Devon Avenue, Salt Creek	ND	0.018	0.001
24 Wolf Road, Salt Creek	ND	0.024	0.001
109 Brookfield Avenue, Salt Creek	ND	0.023	0.000
21 First Avenue, Salt Creek	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	0.020	0.000
78 Wille Road, Higgins Creek	0.000	0.047	0.000
12 Lake-Cook Road, Buffalo Creek	ND	0.008	0.001
13 Lake-Cook Road, Des Plaines River	ND	0.016	0.000
17 Oakton Steet, Des Plaines River	0.080	0.017	0.000
19 Belmont Avenue, Des Plaines River	ND	0.022	0.001
20 Roosevelt Road, Des Plaines River	ND	0.022	0.000
22 Ogden Avenue, Des Plaines River	ND	0.023	0.001
23 Willow Springs Road, Des Plaines River	ND	0.021	0.001
29 Stephen Street, Des Plaines River	0.000	0.022	0.001
91 Material Service Road, Des Plaines River	ND	0.020	0.000
110 Springinsguth Road, West Branch DuPage River	ND	0.015	0.001

ND = No Data

TABLE AII-2: DISSOLVED OXYGEN VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-3: TEMPERATURE VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-4: pH VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-5: CHLORIDE VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-6: AMMONIUM NITROGEN VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-7: UN-IONIZED AMMONIA VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-8: TOTAL DISSOLVED SOLIDS VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-9: PHENOLS VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-10: SULFATE VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-11: FATS, OILS, AND GREASES VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-12: TOTAL CYANIDE VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

**TABLE AII-13: WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY
1999 THROUGH 2006**

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

NA = Not Applicable
ND = No Data

TABLE AII-14: FLUORIDE VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

**TABLE AII-15: FECAL COLIFORM VIOLATION HISTORY
1999 THROUGH 2006**

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

NA = Not Applicable
ND = No Data

TABLE AII-16: GROSS BETA RADIOACTIVITY VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

**TABLE AII-17: BENZENE VIOLATION HISTORY
1999 THROUGH 2006 (HUMAN HEALTH STANDARD)¹**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	06	05	04	03	02	01	00	99
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/2	0/8	0/7	0/4	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	0/4	0/4	0/3	0/3	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	0/4	0/5	0/3	0/3	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	0/4	0/5	0/4	0/1	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	0/4	0/5	0/3	0/3	NA	NA	NA	NA
105 Frontage Road, Skokie River	0/4	0/5	0/4	0/4	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	0/3	0/5	0/4	0/4	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	0/4	0/5	0/8	0/4	NA	NA	NA	NA
35 Central Street, North Shore Channel	0/3	0/4	0/3	0/3	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	0/4	0/5	0/4	0/3	NA	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	0/3	0/5	0/3	0/3	NA	NA	NA	NA
100 Wells Street, Chicago River	0/3	0/6	0/4	0/4	NA	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
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/5	0/4	0/5	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	0/4	0/6	0/4	0/4	NA	NA	NA	NA
55 130th Street, Calumet River	0/4	0/5	0/4	0/4	NA	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	0/4	0/5	0/2	0/3	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	0/3	0/4	0/3	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	0/4	0/6	0/3	0/3	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	0/4	0/5	0/2	0/4	NA	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
Des Plaines River System								
90 Route 19, Poplar Creek	0/4	0/5	0/4	0/3	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	0/1	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	0/4	0/6	0/4	0/4	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	0/4	0/6	0/4	0/4	NA	NA	NA	NA
79 Higgins Road, Salt Creek	0/3	0/4	0/4	0/3	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	0/4	0/6	0/4	0/4	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	0/4	0/6	0/4	0/4	NA	NA	NA	NA
24 Wolf Road, Salt Creek	0/4	0/6	0/4	0/4	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	0/4	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/1	0/3	0/3	0/3	NA	NA	NA	NA
78 Wille Road, Higgins Creek	0/4	0/5	0/3	0/4	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	0/2	0/3	0/3	0/2	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	0/4	0/6	0/4	0/4	NA	NA	NA	NA
17 Oakton Steet, Des Plaines River	0/4	0/6	0/4	0/3	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	0/4	0/6	0/4	0/4	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	0/4	0/6	0/4	0/2	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	0/4	0/6	0/4	0/1	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	0/4	0/6	0/4	0/3	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	0/4	0/6	0/4	0/3	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	0/4	0/6	0/4	0/4	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	0/4	0/5	0/4	NA	NA	NA	NA	NA

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

TABLE AII-18: BENZENE VIOLATION HISTORY
1999 THROUGH 2006¹

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

¹Based on General Use Water quality standards

NA = Not Applicable

ND = No Data

TABLE AII-19: ETHYLBENZENE VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-20: TOLUENE VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-21: XYLENE VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-22: TOTAL SILVER VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-23: TOTAL ARSENIC VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-24: TOTAL BARIUM VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-25: TOTAL BORON VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-26: TOTAL CADMIUM VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-27: TOTAL COPPER VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-28: TOTAL CHROMIUM VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-29: TOTAL HEXAVALENT CHROMIUM VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-30: TOTAL IRON VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-31: TOTAL LEAD VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-32: TOTAL NICKEL VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-33: TOTAL MANGANESE VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-34: TOTAL MERCURY VIOLATION HISTORY
1999 THROUGH 2006 (HUMAN HEALTH STANDARD)¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	06	05	04	03	02	01	00	99
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/5	0/4	4/8	0/3	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	3/12	5/10	4/10	2/8	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	2/11	2/10	3/10	2/9	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	4/12	6/12	5/12	1/3	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	4/12	3/11	5/10	2/9	NA	NA	NA	NA
105 Frontage Road, Skokie River	2/12	5/12	5/12	4/12	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	2/12	4/11	6/12	2/11	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	1/12	4/11	2/11	2/10	NA	NA	NA	NA
35 Central Street, North Shore Channel	1/9	1/8	0/9	1/9	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	2/12	3/12	6/12	0/10	NA	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	1/11	0/10	4/9	3/10	NA	NA	NA	NA
100 Wells Street, Chicago River	3/12	3/12	3/12	3/12	NA	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
Calumet River System								
49 Ewing Avenue, Calumet River	1/11	0/11	2/10	2/12	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	2/11	1/12	3/12	5/12	NA	NA	NA	NA
55 130th Street, Calumet River	2/11	3/11	2/11	2/10	NA	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	2/11	5/11	2/9	3/10	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	2/9	2/8	0/7	1/3	NA	NA	NA	NA
97 170th Street, Thorn Creek	2/11	5/11	3/11	3/10	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	2/11	4/11	3/10	4/10	NA	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
Des Plaines River System								
90 Route 19, Poplar Creek	1/12	3/11	4/11	2/10	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	0/1	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	1/12	2/12	4/11	1/11	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	2/12	2/12	3/12	4/12	NA	NA	NA	NA
79 Higgins Road, Salt Creek	0/9	1/9	1/11	4/9	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	2/12	2/12	2/12	3/12	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	3/12	2/12	4/12	2/12	NA	NA	NA	NA
24 Wolf Road, Salt Creek	2/12	2/12	2/11	3/12	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	2/12	0/11	7/11	2/10	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/7	0/4	2/6	2/5	NA	NA	NA	NA
78 Wille Road, Higgins Creek	2/12	2/12	3/11	3/12	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	1/9	1/7	2/7	3/8	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	3/12	1/12	3/11	3/12	NA	NA	NA	NA
17 Oakton Steet, Des Plaines River	2/12	2/12	2/11	4/10	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	2/12	0/12	4/11	3/12	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	2/12	2/12	3/11	3/7	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	3/12	2/12	2/11	1/5	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	2/12	2/12	1/11	3/10	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	2/12	2/12	2/11	2/11	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	2/12	2/12	2/11	2/12	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	1/11	3/11	3/10	NA	NA	NA	NA	NA

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

NA = Not Applicable

TABLE AII-35: TOTAL MERCURY VIOLATION HISTORY
1999 THROUGH 2006¹

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

¹Based 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
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-37: TOTAL SELENIUM VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-38: SOLUBLE ARSENIC VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-39: SOLUBLE CADMIUM VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-40: SOLUBLE COPPER VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-41: SOLUBLE CHROMIUM VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-42: SOLUBLE IRON VIOLATION HISTORY
1999 THROUGH 2006

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

ND = No Data

TABLE AII-43: SOLUBLE LEAD VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-44: SOLUBLE NICKEL VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-45: SOLUBLE MERCURY VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

TABLE AII-46: SOLUBLE ZINC VIOLATION HISTORY
1999 THROUGH 2006

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

NA = Not Applicable
ND = No Data

**TABLE AII-47: BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
1996 THROUGH 2006**

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	4.00	2.00	2.89	3.50	3.30	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	1.00	2.00	2.56	1.56	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	8.00	3.33	3.30	3.45	2.30	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	11.00	6.42	7.58	6.58	6.90	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	8.00	5.92	5.42	6.58	4.90	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	10.00	5.67	5.25	4.92	4.10	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	6.00	3.25	3.25	3.00	3.80	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	2.00	3.17	2.67	1.83	4.00	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	1.33	2.70	2.08	0.80	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	3.00	2.17	3.25	2.33	1.57	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	4.00	2.92	3.91	2.58	2.50	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	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	6.08	3.73	4.83	4.80	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	4.00	2.42	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.75	4.60	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	4.00	3.75	4.67	2.58	2.20	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	5.00	3.17	3.33	2.25	2.90	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	0.00	2.83	2.75	2.58	2.90	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	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	6.60	6.20	5.29	7.10	6.19
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	3.14	1.50	1.65	1.74	2.82	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	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	0.00	ND	ND	ND	ND	ND
55 130th Street, Calumet River	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	4.50	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	1.78	2.36	2.42	2.75	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	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	3.00	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	2.00	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	3.50	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	2.40	4.50	2.17	3.33	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	3.00	0.83	3.00	1.25	2.50	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	3.00	1.55	2.00	2.50	2.30	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	1.89	2.00	1.58	2.30	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-48: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)											
	06	05	04	03	02	01	00	99	98	97	96	
Chicago River System												
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	3.000	1.857	1.778	2.364	2.300	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	1.000	1.667	1.111	0.222	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	0.000	2.083	1.444	1.909	2.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	4.000	2.500	2.250	2.000	2.200	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	2.000	1.917	1.750	2.333	1.300	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	4.000	1.667	2.500	2.083	1.400	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	2.000	1.333	1.167	1.333	1.200	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	1.500	1.500	0.917	0.500	0.500	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	1.111	2.800	1.500	0.500	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	3.000	1.583	1.667	1.636	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	2.000	1.417	2.000	1.417	1.100	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	0.000	1.250	2.583	1.500	0.889	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	3.083	1.583	2.250	3.500	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	2.000	1.417	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	1.750	1.400	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	3.000	1.667	0.833	0.750	1.300	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	3.000	1.500	1.333	0.500	1.300	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	2.000	0.500	1.250	0.583	1.100	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.000	0.583	1.167	0.500	1.000	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	0.714	0.608	0.519	0.400	0.000	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	ND	ND	0.500	1.333	0.833	0.600	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	0.273	1.400	1.250	0.500	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	3.500	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	0.000	1.364	1.917	1.375	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	4.000	1.083	1.000	0.667	1.400	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	1.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	2.000	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	2.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	1.400	2.100	1.583	1.778	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	3.000	1.083	1.500	0.667	1.100	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	4.000	0.833	1.273	0.917	1.500	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	0.600	1.182	0.833	0.700	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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 Steet, 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 Springinguth 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
1996 THROUGH 2006**

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	10.75	10.50	ND	ND	ND	8.73
106 Dundee Road, West Fork North Branch Chicago River	8.10	10.30	8.02	7.00	9.12	9.54	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	8.58	7.38	7.64	6.86	7.10	6.98	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.15	5.42	6.46	6.22	6.55	6.91	6.99	6.72	6.56	7.44	6.51
104 Glenview Road, North Branch Chicago River	7.98	8.12	8.03	7.47	8.08	7.36	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.75	7.75	7.73	6.67	7.14	7.65	7.25	6.59	7.56	7.49	7.91
105 Frontage Road, Skokie River	9.27	8.79	8.33	7.95	8.15	7.49	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	8.23	7.16	8.21	7.45	7.75	7.29	7.50	7.93	8.04	8.18	8.45
96 Albany Avenue, North Branch Chicago River	9.18	8.63	9.12	7.77	7.71	7.42	6.80	ND	ND	ND	ND
35 Central Street, North Shore Channel	8.63	7.50	7.53	8.08	7.34	8.03	7.48	7.51	7.20	9.69	6.36
102 Oakton Street, North Shore Channel	8.73	7.95	7.26	6.32	6.58	5.80	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.93	7.98	8.10	7.54	6.90	7.39	7.24	7.43	7.31	7.85	7.35
101 Foster Avenue, North Shore Channel	7.20	7.30	7.58	7.42	6.53	6.87	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.83	7.03	7.55	7.14	6.74	7.13	6.68	6.75	7.04	7.36	6.82
73 Diversey Parkway, North Branch Chicago River	7.25	6.44	6.71	6.25	5.74	6.18	5.84	5.81	6.05	6.36	6.27
46 Grand Avenue, North Branch Chicago River	6.85	6.30	6.47	6.12	5.86	6.00	6.13	6.53	6.35	5.92	6.95
74 Lake Shore Drive, Chicago River	9.19	9.08	8.50	7.62	9.03	7.99	8.04	9.26	9.36	9.79	10.15
100 Wells Street, Chicago River	8.68	8.96	8.56	7.54	7.83	7.27	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.79	7.85	6.86	5.73	6.38	6.32	6.67	6.89	7.38	7.82	8.75
108 Loomis Street, South Branch Chicago River	7.81	7.78	7.23	5.97	5.86	5.79	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	6.00	6.65	5.63	5.29	3.91	2.62	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.44	7.59	6.71	5.68	ND	ND	5.43	6.19	7.00	7.48	8.21
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	5.60	5.34	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.04	6.11	5.77	5.18	5.18	5.28	4.98	5.99	6.21	7.16	6.85
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.30	7.29	6.92	6.81	6.95	6.60	6.52	7.16	7.13	6.96	7.16
42 Route 83, Chicago Sanitary & Ship Canal	5.46	5.90	6.06	5.85	6.09	5.46	5.46	5.76	5.90	6.23	6.35
48 Stephen Street, Chicago Sanitary & Ship Canal	5.43	6.25	6.25	5.78	5.73	5.38	5.40	5.63	6.03	6.07	6.40
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	5.68	5.86	5.67	5.57	5.32	5.34	5.65	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	9.50	9.99	9.24	9.73	9.65	8.99	9.44	9.81	9.36	10.17	9.53
50 Burnham Avenue, Wolf Lake	9.63	9.25	9.79	8.91	9.77	8.70	9.33	9.45	9.25	9.73	10.25
55 130th Street, Calumet River	8.45	9.26	9.13	8.27	9.17	8.41	8.43	8.97	8.56	8.95	8.97
86 Burnham Avenue, Grand Calumet River	6.20	4.80	4.93	3.94	6.22	4.19	4.43	5.14	5.63	5.25	3.19
56 Indiana Avenue, Little Calumet River	9.61	8.83	7.71	8.40	8.69	8.59	8.20	8.48	7.84	8.16	8.72
76 Halsted Street, Little Calumet River	6.27	6.98	7.13	7.00	6.92	6.69	6.60	6.69	6.60	6.53	7.35
52 Wentworth Avenue, Little Calumet River	7.49	6.45	6.40	6.53	6.47	6.20	6.52	6.23	6.91	6.47	6.08
54 Joe Orr Road, Thorn Creek	7.72	7.65	8.57	8.40	8.54	8.27	8.28	8.85	8.61	8.03	8.36
97 170th Street, Thorn Creek	7.15	7.85	8.37	7.80	8.37	7.29	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.27	6.35	6.99	5.42	7.29	5.75	6.28	5.80	6.34	6.08	5.56
58 Ashland Avenue, Calumet Sag Channel	7.15	7.23	7.25	6.98	6.48	6.41	6.37	6.21	5.61	6.66	6.31
59 Cicero Avenue, Calumet Sag Channel	6.24	6.56	6.80	7.23	6.85	5.93	6.35	6.12	6.04	6.44	6.26
43 Route 83, Calumet Sag Channel	6.70	7.38	6.39	7.88	6.93	6.04	6.17	5.95	5.64	6.04	5.83
Des Plaines River System											
90 Route 19, Poplar Creek	9.78	8.47	10.16	9.16	8.94	9.52	7.91	10.15	8.40	9.26	9.09
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	8.90	ND	8.18	7.50	10.04	8.36	9.38	7.76
89 Walnut Lane, West Branch DuPage River	8.28	7.78	8.03	7.48	7.64	6.82	7.01	8.20	7.33	8.22	7.61
64 Lake Street, West Branch DuPage River	8.68	8.61	7.41	8.05	8.38	8.25	7.79	8.74	7.79	7.71	7.37
79 Higgins Road, Salt Creek	8.78	6.24	8.97	7.37	7.59	8.88	7.09	9.07	7.77	8.94	7.35
80 Arlington Heights Road, Salt Creek	8.77	8.48	8.01	7.79	8.07	8.29	7.79	7.97	7.31	8.43	7.74
18 Devon Avenue, Salt Creek	8.89	9.04	8.33	7.59	7.96	8.24	7.78	7.93	7.66	8.98	7.26
24 Wolf Road, Salt Creek	8.51	8.61	8.19	8.64	7.79	8.50	7.74	9.04	9.70	9.73	8.89
109 Brookfield Avenue, Salt Creek	7.58	7.81	8.02	8.13	5.98	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	10.90	7.98	6.72	7.65	6.48	7.07	7.08
77 Elmhurst Road, Higgins Creek	8.43	9.15	8.80	7.48	8.22	8.42	7.71	9.39	7.97	9.23	7.95
78 Wille Road, Higgins Creek	9.04	8.88	9.15	8.16	8.55	8.93	8.43	8.61	7.80	8.97	8.26
12 Lake-Cook Road, Buffalo Creek	8.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	8.76	8.59	8.83	8.30	9.35	9.02	8.04	8.46	8.01	8.55	7.06
17 Oakton Steet, Des Plaines River	8.35	8.39	8.83	7.57	8.17	9.00	7.66	8.32	8.11	8.49	7.94
19 Belmont Avenue, Des Plaines River	8.43	7.55	7.91	7.64	7.74	8.59	6.41	7.26	6.58	8.26	7.18
20 Roosevelt Road, Des Plaines River	8.16	7.57	8.13	7.16	7.96	8.31	6.44	7.24	6.44	8.05	7.28
22 Ogden Avenue, Des Plaines River	9.00	9.13	9.27	12.06	9.34	9.20	7.72	8.43	8.40	9.18	8.25
23 Willow Springs Road, Des Plaines River	8.24	9.08	9.19	8.66	8.99	9.44	7.65	8.68	8.41	9.14	8.42
29 Stephen Street, Des Plaines River	8.90	9.91	9.62	9.95	9.53	9.98	7.81	9.15	9.11	9.74	8.82
91 Material Service Road, Des Plaines River	9.68	10.31	10.65	9.65	10.31	8.71	8.42	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	6.23	6.80	6.31	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-50: TEMPERATURE MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (°C)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	4.1	1.1	ND	ND	ND	15.0
106 Dundee Road, West Fork North Branch Chicago River	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	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	12.6	16.1	15.3	16.7	11.7	14.2	15.5	13.9	12.2	11.6	13.4
104 Glenview Road, North Branch Chicago River	12.9	15.1	13.9	16.5	10.4	15.9	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	12.9	17.1	15.2	16.1	11.9	14.4	15.5	14.0	11.9	12.1	13.1
105 Frontage Road, Skokie River	13.1	14.4	13.9	15.1	12.7	16.7	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	12.8	16.7	15.3	14.3	12.3	14.2	15.3	14.5	13.2	12.4	10.9
96 Albany Avenue, North Branch Chicago River	13.0	15.5	14.3	15.2	12.9	15.3	16.0	ND	ND	ND	ND
35 Central Street, North Shore Channel	18.6	17.9	17.4	17.9	14.3	15.3	18.0	15.9	16.2	12.0	13.9
102 Oakton Street, North Shore Channel	15.0	16.1	12.8	16.2	14.9	16.8	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	15.6	16.4	14.7	17.0	16.5	16.9	15.8	16.9	15.8	12.8	14.7
101 Foster Avenue, North Shore Channel	15.8	16.8	15.8	17.9	15.3	17.8	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	15.2	17.5	17.3	17.1	15.1	15.1	14.9	16.0	15.2	12.4	13.7
73 Diversey Parkway, North Branch Chicago River	15.0	17.4	16.9	16.0	15.2	15.3	15.4	16.5	15.4	12.4	13.7
46 Grand Avenue, North Branch Chicago River	14.9	17.5	16.7	14.5	15.3	15.6	14.4	15.1	15.0	14.6	12.1
74 Lake Shore Drive, Chicago River	14.0	15.2	17.5	15.5	12.8	14.0	13.8	14.9	13.3	11.5	10.6
100 Wells Street, Chicago River	13.9	13.4	14.4	14.1	14.0	16.4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	14.0	13.3	14.3	12.7	14.1	15.0	14.7	14.7	13.8	12.1	10.8
108 Loomis Street, South Branch Chicago River	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	18.9	15.8	16.5	16.1	17.2	18.5	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	16.6	15.5	16.9	16.8	ND	ND	18.3	16.8	15.4	13.3	11.6
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	17.1	17.8	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	17.7	20.0	18.1	20.8	18.8	18.1	18.7	15.6	18.0	12.5	13.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	16.4	17.3	17.6	17.5	16.9	17.1	17.0	17.9	16.7	13.9	13.5
42 Route 83, Chicago Sanitary & Ship Canal	18.4	17.7	15.3	17.5	16.6	16.9	19.1	18.0	17.2	15.0	14.7
48 Stephen Street, Chicago Sanitary & Ship Canal	16.3	16.1	15.8	15.6	16.4	16.9	18.3	18.5	16.6	14.6	14.2
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	19.4	19.3	18.1	17.9	18.7	18.3	19.1	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	14.0	16.2	14.2	12.4	12.7	13.0	13.4	13.5	14.8	12.6	13.3
50 Burnham Avenue, Wolf Lake	13.9	14.5	13.0	14.2	12.1	14.1	13.5	13.6	15.0	12.4	12.5
55 130th Street, Calumet River	13.5	15.8	15.6	14.4	12.3	15.1	14.8	15.7	15.5	13.3	14.8
86 Burnham Avenue, Grand Calumet River	13.7	16.2	15.4	15.6	12.9	15.5	15.1	15.3	15.6	13.7	13.9
56 Indiana Avenue, Little Calumet River	14.6	16.0	16.7	16.2	13.6	17.8	15.2	15.7	16.7	14.1	14.7
76 Halsted Street, Little Calumet River	15.3	16.4	13.5	15.7	14.8	15.0	16.2	16.5	16.4	13.6	4.3
52 Wentworth Avenue, Little Calumet River	14.1	14.5	14.3	16.2	13.1	13.9	14.6	15.3	14.3	11.9	14.7
54 Joe Orr Road, Thorn Creek	15.1	15.0	15.3	14.9	15.0	15.9	17.3	15.0	15.8	13.2	14.0
97 170th Street, Thorn Creek	14.7	13.4	14.7	15.3	14.4	15.5	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	15.7	15.7	16.2	17.1	12.9	15.7	15.6	16.0	14.6	11.2	15.2
58 Ashland Avenue, Calumet Sag Channel	14.3	15.8	14.2	15.1	14.5	14.7	15.7	16.7	19.1	14.1	13.6
59 Cicero Avenue, Calumet Sag Channel	16.6	15.0	16.6	16.9	16.3	14.5	15.5	16.6	16.0	13.1	14.4
43 Route 83, Calumet Sag Channel	15.1	16.7	20.0	16.8	14.9	14.2	15.5	16.5	15.5	14.0	14.9
Des Plaines River System											
90 Route 19, Poplar Creek	13.2	15.1	15.0	13.8	16.3	14.0	17.7	13.1	17.1	14.6	13.7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	20.4	ND	11.3	16.2	13.9	17.8	10.6	13.4
89 Walnut Lane, West Branch DuPage River	13.8	16.9	16.1	16.6	15.5	15.8	15.2	16.1	18.3	15.1	14.3
64 Lake Street, West Branch DuPage River	14.5	16.5	15.9	14.4	14.2	16.0	15.5	14.7	17.9	13.9	14.7
79 Higgins Road, Salt Creek	18.6	19.2	15.0	15.1	18.9	16.8	15.9	14.4	19.1	14.2	14.5
80 Arlington Heights Road, Salt Creek	14.6	16.4	15.9	14.9	14.2	14.5	14.2	15.2	17.6	14.2	15.2
18 Devon Avenue, Salt Creek	14.0	15.3	15.4	16.0	14.6	14.5	14.5	14.8	17.5	13.5	14.8
24 Wolf Road, Salt Creek	13.5	14.8	16.2	12.9	12.3	13.8	16.3	14.8	9.9	9.6	14.2
109 Brookfield Avenue, Salt Creek	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	3.4	13.5	15.3	13.5	14.8	11.6	13.5
77 Elmhurst Road, Higgins Creek	13.3	12.3	12.7	15.4	15.0	14.5	15.2	14.0	15.3	9.2	12.3
78 Wille Road, Higgins Creek	16.1	17.1	15.6	15.4	16.0	15.6	16.3	16.1	17.3	11.5	15.3
12 Lake-Cook Road, Buffalo Creek	11.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	12.9	15.8	14.1	12.4	12.2	13.3	13.3	12.9	15.7	11.6	13.8
17 Oakton Steet, Des Plaines River	13.6	15.9	15.2	15.5	14.4	13.5	15.1	13.8	15.1	10.0	13.3
19 Belmont Avenue, Des Plaines River	14.2	15.3	16.2	13.6	12.1	13.5	15.1	13.7	15.3	10.7	13.4
20 Roosevelt Road, Des Plaines River	13.8	15.4	15.7	15.3	12.2	13.8	15.0	13.3	15.2	10.6	13.5
22 Ogden Avenue, Des Plaines River	13.0	15.1	16.5	6.0	11.3	13.9	15.5	14.1	14.8	11.2	14.6
23 Willow Springs Road, Des Plaines River	12.7	14.7	16.1	15.0	14.4	13.6	16.1	14.8	16.2	10.0	14.2
29 Stephen Street, Des Plaines River	13.4	15.1	17.2	13.8	12.3	14.2	16.6	14.9	16.7	9.0	14.5
91 Material Service Road, Des Plaines River	13.8	15.0	17.1	13.2	12.5	16.2	15.1	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	13.2	15.1	15.3	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-51: pH MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	7.50	8.00	ND	ND	ND	7.94
106 Dundee Road, West Fork North Branch Chicago River	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	7.47	7.42	7.72	7.65	7.77	7.75	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.47	7.26	7.32	7.59	7.44	7.60	7.79	7.87	7.77	6.75	7.93
104 Glenview Road, North Branch Chicago River	7.71	7.22	7.45	7.97	7.73	7.63	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.66	7.19	7.34	7.59	7.43	7.61	7.95	7.96	7.82	6.67	7.94
105 Frontage Road, Skokie River	7.68	7.19	7.47	7.65	7.69	7.70	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.74	7.45	7.72	7.72	7.59	7.62	7.78	7.84	7.72	6.79	7.73
96 Albany Avenue, North Branch Chicago River	7.59	7.30	7.53	7.69	7.81	7.40	7.65	ND	ND	ND	ND
35 Central Street, North Shore Channel	7.70	7.65	7.89	7.31	7.90	7.77	8.31	8.12	8.24	7.03	8.07
102 Oakton Street, North Shore Channel	7.56	7.35	7.73	7.13	7.36	7.37	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.23	7.14	7.41	7.25	7.38	7.19	7.63	7.56	7.50	6.95	7.59
101 Foster Avenue, North Shore Channel	7.13	7.18	7.27	7.13	7.28	7.14	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.39	7.32	7.59	7.50	7.44	7.29	7.57	7.58	7.68	6.99	7.71
73 Diversey Parkway, North Branch Chicago River	7.36	7.23	7.37	7.26	7.45	7.12	7.59	7.41	7.84	7.16	7.94
46 Grand Avenue, North Branch Chicago River	7.37	7.21	7.47	7.41	7.36	7.09	7.60	7.74	7.82	6.48	7.55
74 Lake Shore Drive, Chicago River	7.75	7.52	7.73	7.33	7.43	7.95	7.70	8.09	8.15	7.96	7.88
100 Wells Street, Chicago River	7.72	7.44	7.49	7.30	7.23	7.66	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.49	7.41	7.31	7.25	7.23	7.39	7.54	7.89	7.89	7.75	7.52
108 Loomis Street, South Branch Chicago River	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	7.38	7.27	7.27	7.35	7.13	7.03	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.46	7.39	7.40	7.38	ND	ND	7.45	7.72	8.06	7.48	7.68
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	7.10	7.06	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.22	7.23	7.47	7.27	7.16	7.23	7.27	7.85	8.02	7.90	7.82
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.20	7.11	7.47	7.23	7.17	7.19	7.42	7.67	7.97	7.44	7.38
42 Route 83, Chicago Sanitary & Ship Canal	6.92	7.08	7.40	7.12	7.22	7.13	7.32	7.71	7.98	7.54	7.51
48 Stephen Street, Chicago Sanitary & Ship Canal	7.08	7.03	7.34	7.25	7.26	7.23	7.48	7.62	7.97	7.58	7.49
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	7.75	7.61	7.65	7.80	7.64
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.29	7.20	7.38	7.33	7.27	7.11	7.28	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	7.72	7.48	8.01	7.65	7.55	7.47	7.96	8.19	8.25	7.88	8.00
50 Burnham Avenue, Wolf Lake	8.26	7.65	7.82	8.18	7.91	7.76	8.06	8.29	8.34	7.93	8.31
55 130th Street, Calumet River	7.94	7.64	7.78	7.86	7.87	7.41	7.72	8.21	8.12	7.91	8.35
86 Burnham Avenue, Grand Calumet River	7.43	7.30	7.51	7.58	7.73	7.39	7.74	7.79	7.94	7.47	8.02
56 Indiana Avenue, Little Calumet River	7.81	7.06	7.67	7.73	7.63	7.79	7.73	8.10	8.03	7.75	8.32
76 Halsted Street, Little Calumet River	7.51	7.11	7.40	7.36	7.35	7.21	7.47	7.82	7.56	7.49	7.32
52 Wentworth Avenue, Little Calumet River	7.75	7.16	7.43	7.63	7.56	7.31	7.84	7.95	8.09	7.70	8.65
54 Joe Orr Road, Thorn Creek	7.32	7.10	7.38	7.37	7.37	7.12	7.51	8.10	7.53	7.07	7.51
97 170th Street, Thorn Creek	7.70	6.96	7.44	7.61	7.58	7.14	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.74	7.07	7.42	7.39	7.55	7.20	7.41	7.91	7.65	7.03	7.29
58 Ashland Avenue, Calumet Sag Channel	7.40	6.91	7.33	7.47	7.37	7.26	7.31	7.78	7.92	7.78	7.27
59 Cicero Avenue, Calumet Sag Channel	7.38	7.04	7.40	7.54	7.07	7.19	7.17	7.79	7.74	7.43	7.45
43 Route 83, Calumet Sag Channel	7.55	7.25	7.46	7.66	6.99	7.16	7.17	7.72	7.74	7.63	7.39
Des Plaines River System											
90 Route 19, Poplar Creek	7.80	7.70	7.65	7.58	7.64	7.54	8.08	8.16	8.17	7.93	7.94
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	7.40	ND	7.43	7.95	7.90	8.13	7.66	7.94
89 Walnut Lane, West Branch DuPage River	7.43	7.40	7.44	7.37	7.46	7.42	8.13	7.89	7.90	7.67	7.92
64 Lake Street, West Branch DuPage River	7.64	7.57	7.48	7.48	7.66	7.50	8.30	7.71	8.06	7.88	8.06
79 Higgins Road, Salt Creek	7.94	7.39	7.54	7.54	7.74	7.50	8.16	8.24	8.29	8.09	7.73
80 Arlington Heights Road, Salt Creek	7.50	7.45	7.42	7.34	7.56	7.44	8.16	7.87	7.97	7.94	7.75
18 Devon Avenue, Salt Creek	7.55	7.44	7.35	7.39	7.26	7.58	8.03	7.85	7.87	7.82	7.73
24 Wolf Road, Salt Creek	7.31	7.30	7.67	7.31	7.45	7.63	7.78	8.05	7.91	6.77	7.73
109 Brookfield Avenue, Salt Creek	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	7.40	7.43	7.40	7.68	7.65	7.65	7.87
77 Elmhurst Road, Higgins Creek	7.40	7.39	7.80	7.54	7.35	7.65	7.81	8.02	7.75	6.87	7.84
78 Wille Road, Higgins Creek	7.54	7.37	7.66	7.58	7.14	7.72	7.60	7.77	7.75	6.66	7.81
12 Lake-Cook Road, Buffalo Creek	7.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.68	7.44	7.77	7.62	7.52	7.68	7.92	7.80	7.93	7.92	8.02
17 Oakton Steet, Des Plaines River	7.57	7.44	7.63	7.67	7.34	7.69	7.75	7.89	7.78	7.92	8.00
19 Belmont Avenue, Des Plaines River	7.67	7.45	7.62	7.68	7.40	7.65	7.64	7.78	7.74	8.05	8.09
20 Roosevelt Road, Des Plaines River	7.89	7.49	7.67	7.71	7.32	7.59	7.68	7.77	7.70	7.78	7.93
22 Ogden Avenue, Des Plaines River	7.50	7.49	7.63	7.46	7.49	7.55	7.12	7.43	7.65	7.95	7.88
23 Willow Springs Road, Des Plaines River	7.62	7.62	7.63	7.59	7.60	7.66	7.83	8.13	7.87	6.47	7.95
29 Stephen Street, Des Plaines River	7.64	7.55	7.51	7.67	7.82	7.71	7.82	8.12	7.96	6.74	8.02
91 Material Service Road, Des Plaines River	7.87	7.74	7.65	7.80	7.85	7.40	7.65	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	7.54	7.43	7.49	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-52: ALKALINITY (TOTAL) MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	196	170	ND	ND	ND	152
106 Dundee Road, West Fork North Branch Chicago River	147	152	178	138	187	180	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	178	172	179	168	185	177	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	185	199	196	194	213	201	189	205	209	183	206
104 Glenview Road, North Branch Chicago River	165	156	182	170	183	189	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	184	183	209	191	210	210	200	191	231	200	237
105 Frontage Road, Skokie River	164	154	178	160	178	182	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	170	164	175	159	180	179	163	171	194	180	177
96 Albany Avenue, North Branch Chicago River	173	167	169	170	176	186	161	ND	ND	ND	ND
35 Central Street, North Shore Channel	117	115	116	117	119	111	126	129	126	119	140
102 Oakton Street, North Shore Channel	134	126	137	128	130	119	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	144	136	151	140	149	151	137	142	152	144	151
101 Foster Avenue, North Shore Channel	145	135	144	137	149	142	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	146	138	159	139	148	156	141	152	161	162	157
73 Diversey Parkway, North Branch Chicago River	146	135	156	139	144	155	138	150	161	149	156
46 Grand Avenue, North Branch Chicago River	147	144	156	145	147	157	143	151	167	149	160
74 Lake Shore Drive, Chicago River	120	120	119	116	120	125	123	117	120	115	114
100 Wells Street, Chicago River	127	123	125	130	130	132	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	142	137	137	140	141	147	137	144	148	131	136
108 Loomis Street, South Branch Chicago River	143	142	136	138	154	137	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	147	138	142	133	148	157	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	142	138	138	136	ND	ND	136	149	152	132	139
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	150	139	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	158	140	142	132	153	141	135	140	144	133	134
41 Harlem Avenue, Chicago Sanitary & Ship Canal	130	126	132	117	137	139	121	129	137	131	122
42 Route 83, Chicago Sanitary & Ship Canal	139	138	137	126	140	137	126	131	140	137	133
48 Stephen Street, Chicago Sanitary & Ship Canal	146	142	143	138	158	144	158	139	142	143	137
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	143	135	149	244	480
92 Lockport Forebay, Chicago Sanitary & Ship Canal	143	138	140	133	141	148	137	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	113	109	111	110	110	112	115	115	111	116	111
50 Burnham Avenue, Wolf Lake	100	109	111	104	96	96	101	98	102	106	102
55 130th Street, Calumet River	112	112	116	111	117	116	116	117	114	118	129
86 Burnham Avenue, Grand Calumet River	248	170	203	196	176	165	168	155	141	158	212
56 Indiana Avenue, Little Calumet River	127	125	129	127	138	126	127	129	129	130	133
76 Halsted Street, Little Calumet River	162	153	159	146	156	159	154	158	153	153	154
52 Wentworth Avenue, Little Calumet River	222	175	206	208	225	190	195	193	200	215	215
54 Joe Orr Road, Thorn Creek	189	152	183	158	183	195	172	175	203	216	223
97 170th Street, Thorn Creek	205	172	186	172	190	182	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	208	168	180	182	194	174	190	184	179	199	201
58 Ashland Avenue, Calumet Sag Channel	167	154	158	155	167	163	159	156	142	164	162
59 Cicero Avenue, Calumet Sag Channel	171	150	150	151	157	161	161	156	156	159	160
43 Route 83, Calumet Sag Channel	168	151	153	150	152	161	162	159	156	161	161
Des Plaines River System											
90 Route 19, Poplar Creek	190	188	216	185	209	207	196	239	230	182	213
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	118	ND	195	156	192	184	160	137
89 Walnut Lane, West Branch DuPage River	160	150	148	135	158	165	155	163	154	140	138
64 Lake Street, West Branch DuPage River	184	133	147	129	157	162	146	153	152	141	133
79 Higgins Road, Salt Creek	155	142	197	127	166	182	161	158	171	142	159
80 Arlington Heights Road, Salt Creek	142	136	149	133	151	147	136	166	145	140	150
18 Devon Avenue, Salt Creek	142	135	149	132	147	145	132	139	144	145	144
24 Wolf Road, Salt Creek	145	134	156	126	154	159	144	153	178	139	155
109 Brookfield Avenue, Salt Creek	144	133	160	125	128	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	185	161	150	150	161	140	148
77 Elmhurst Road, Higgins Creek	121	120	158	102	139	168	140	172	196	144	140
78 Wille Road, Higgins Creek	179	150	192	159	181	195	171	190	173	168	168
12 Lake-Cook Road, Buffalo Creek	181	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	189	179	196	168	214	210	191	253	207	184	196
17 Oakton Steet, Des Plaines River	179	171	192	167	206	201	175	180	205	169	192
19 Belmont Avenue, Des Plaines River	177	167	189	155	192	203	172	177	199	176	188
20 Roosevelt Road, Des Plaines River	172	166	190	153	199	202	171	173	195	178	191
22 Ogden Avenue, Des Plaines River	163	151	176	155	181	190	160	164	185	167	179
23 Willow Springs Road, Des Plaines River	162	154	180	141	177	189	157	165	185	169	180
29 Stephen Street, Des Plaines River	169	159	180	149	181	188	165	166	184	176	180
91 Material Service Road, Des Plaines River	173	163	184	146	185	183	172	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	191	179	183	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-53: CHLORIDE MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	856	847	ND	ND	ND	198
106 Dundee Road, West Fork North Branch Chicago River	339	456	552	181	293	371	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	344	501	298	270	244	227	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	258	318	205	217	185	203	217	177	180	211	198
104 Glenview Road, North Branch Chicago River	222	258	265	215	171	177	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	214	310	239	220	190	218	242	185	183	250	215
105 Frontage Road, Skokie River	207	236	203	177	162	167	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	254	337	322	205	205	249	269	199	182	263	260
96 Albany Avenue, North Branch Chicago River	256	346	236	230	223	228	163	ND	ND	ND	ND
35 Central Street, North Shore Channel	37	35	31	47	64	16	60	43	34	23	49
102 Oakton Street, North Shore Channel	90	135	104	80	99	36	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	116	150	172	143	105	152	150	154	110	116	115
101 Foster Avenue, North Shore Channel	134	165	143	123	111	121	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	145	209	183	159	133	192	202	193	133	178	139
73 Diversey Parkway, North Branch Chicago River	140	196	193	168	136	199	190	188	129	184	143
46 Grand Avenue, North Branch Chicago River	154	186	219	174	133	191	148	153	150	133	161
74 Lake Shore Drive, Chicago River	64	62	62	73	69	98	81	53	64	28	27
100 Wells Street, Chicago River	89	109	103	108	88	98	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	125	156	129	136	102	179	126	113	108	78	86
108 Loomis Street, South Branch Chicago River	143	158	141	137	122	96	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	110	150	148	134	127	117	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	137	153	142	137	ND	ND	134	107	136	98	122
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	122	138	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	136	156	161	150	130	148	124	106	149	105	114
41 Harlem Avenue, Chicago Sanitary & Ship Canal	146	162	167	149	124	170	166	155	143	137	130
42 Route 83, Chicago Sanitary & Ship Canal	151	170	221	156	144	203	139	171	147	157	145
48 Stephen Street, Chicago Sanitary & Ship Canal	152	164	179	160	156	202	126	139	149	155	158
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	225	151	134	153	124
92 Lockport Forebay, Chicago Sanitary & Ship Canal	158	181	195	166	151	187	179	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	44	38	31	35	40	59	51	42	31	23	24
50 Burnham Avenue, Wolf Lake	47	59	55	42	43	45	32	30	30	35	31
55 130th Street, Calumet River	83	75	69	64	68	93	74	67	53	57	57
86 Burnham Avenue, Grand Calumet River	155	137	138	176	200	180	177	198	192	190	267
56 Indiana Avenue, Little Calumet River	98	82	82	88	109	95	103	95	99	100	86
76 Halsted Street, Little Calumet River	153	174	154	133	127	162	150	139	122	136	163
52 Wentworth Avenue, Little Calumet River	122	140	160	179	189	137	155	143	109	136	119
54 Joe Orr Road, Thorn Creek	183	212	235	94	191	187	162	156	152	171	187
97 170th Street, Thorn Creek	182	228	222	217	194	163	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	174	205	200	193	173	168	190	171	139	185	151
58 Ashland Avenue, Calumet Sag Channel	161	180	167	155	147	167	164	131	101	191	135
59 Cicero Avenue, Calumet Sag Channel	155	171	167	150	145	167	168	136	136	166	139
43 Route 83, Calumet Sag Channel	150	144	156	142	144	179	168	130	135	143	145
Des Plaines River System											
90 Route 19, Poplar Creek	279	278	241	201	220	229	143	157	199	197	209
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	154	ND	283	189	257	220	321	388
89 Walnut Lane, West Branch DuPage River	193	181	207	205	169	171	153	127	131	142	199
64 Lake Street, West Branch DuPage River	201	211	198	186	190	198	160	133	152	166	198
79 Higgins Road, Salt Creek	287	409	363	235	260	327	278	218	201	290	323
80 Arlington Heights Road, Salt Creek	280	323	225	241	213	234	219	177	178	235	256
18 Devon Avenue, Salt Creek	283	320	236	250	204	247	223	178	188	271	250
24 Wolf Road, Salt Creek	241	261	250	241	254	268	220	186	267	231	263
109 Brookfield Avenue, Salt Creek	257	258	264	208	135	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	654	260	213	184	216	214	253
77 Elmhurst Road, Higgins Creek	571	478	514	424	460	479	336	294	364	348	378
78 Wille Road, Higgins Creek	217	220	190	213	259	221	191	168	193	234	215
12 Lake-Cook Road, Buffalo Creek	259	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	210	221	176	202	188	158	152	184	151	154	171
17 Oakton Steet, Des Plaines River	245	251	197	202	224	182	141	137	151	167	194
19 Belmont Avenue, Des Plaines River	250	230	225	255	236	188	153	146	160	187	203
20 Roosevelt Road, Des Plaines River	249	260	211	173	265	190	157	146	160	193	200
22 Ogden Avenue, Des Plaines River	244	255	218	261	269	205	170	153	172	214	206
23 Willow Springs Road, Des Plaines River	234	268	222	197	226	204	177	160	178	191	201
29 Stephen Street, Des Plaines River	236	255	212	210	267	199	175	157	183	232	222
91 Material Service Road, Des Plaines River	242	249	212	200	251	198	202	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	466	355	310	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-54: TURBIDITY MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (NTU)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	25.5	81.0	ND	ND	ND	47.0
106 Dundee Road, West Fork North Branch Chicago River	66.6	30.1	49.5	32.2	19.2	24.6	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	32.2	25.6	20.1	16.9	20.7	18.5	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	46.2	16.7	22.8	13.1	16.6	22.3	16.8	19.7	14.6	18.3	24.6
104 Glenview Road, North Branch Chicago River	32.9	15.2	18.2	14.7	15.3	14.1	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	37.0	16.8	19.8	12.6	13.4	15.6	13.0	17.6	13.4	12.2	18.5
105 Frontage Road, Skokie River	16.5	13.4	16.7	12.0	12.5	12.9	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	28.9	18.9	19.1	14.5	18.0	18.1	18.5	20.2	21.2	20.2	18.3
96 Albany Avenue, North Branch Chicago River	23.5	16.0	18.3	14.1	14.5	13.3	11.0	ND	ND	ND	ND
35 Central Street, North Shore Channel	9.3	5.9	7.3	8.2	10.6	10.3	11.8	9.1	8.7	10.3	10.8
102 Oakton Street, North Shore Channel	13.2	12.2	11.3	11.6	14.1	14.4	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.8	6.5	7.6	7.1	8.1	6.7	8.1	7.5	6.8	7.0	8.4
101 Foster Avenue, North Shore Channel	5.9	7.0	7.5	8.0	9.5	8.7	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	9.3	9.5	10.5	9.2	11.3	11.4	9.7	10.1	8.7	9.5	10.2
73 Diversey Parkway, North Branch Chicago River	10.4	10.0	11.4	9.5	12.4	11.8	10.1	11.7	11.3	9.1	13.8
46 Grand Avenue, North Branch Chicago River	13.4	11.3	14.9	10.2	13.2	12.0	12.6	12.7	10.8	9.9	12.7
74 Lake Shore Drive, Chicago River	2.8	3.3	3.4	5.5	6.0	5.9	8.3	7.0	6.8	8.5	8.7
100 Wells Street, Chicago River	3.5	4.7	4.7	7.0	6.8	7.9	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	8.0	9.1	11.1	9.8	11.6	12.5	10.5	11.2	10.3	10.5	10.1
108 Loomis Street, South Branch Chicago River	11.3	9.6	10.7	9.1	10.0	12.6	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	8.8	8.7	9.9	9.3	10.4	12.5	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	11.4	10.4	11.5	10.3	ND	ND	12.7	11.2	10.6	11.2	11.4
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	11.0	12.9	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	13.1	11.6	13.7	10.5	10.6	13.6	12.8	13.8	10.8	11.8	11.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.9	6.4	6.9	7.2	8.3	8.5	9.3	9.7	7.2	8.9	8.8
42 Route 83, Chicago Sanitary & Ship Canal	5.4	5.8	6.6	8.0	8.6	8.0	8.2	7.8	9.5	8.3	7.7
48 Stephen Street, Chicago Sanitary & Ship Canal	11.6	11.5	11.4	9.9	9.9	10.4	11.1	9.4	11.7	11.9	13.2
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	11.2	10.6	10.6	9.5	10.0	11.4	11.5	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	7.2	5.6	7.7	6.9	7.5	9.8	10.6	9.8	9.8	9.5	10.5
50 Burnham Avenue, Wolf Lake	2.9	5.3	3.8	5.3	5.2	6.6	6.4	5.8	7.4	6.8	6.7
55 130th Street, Calumet River	6.3	5.9	6.4	7.8	9.4	10.8	13.5	8.0	9.4	10.7	9.7
86 Burnham Avenue, Grand Calumet River	12.8	25.3	11.5	9.4	9.3	10.0	12.5	11.1	8.4	10.5	35.5
56 Indiana Avenue, Little Calumet River	19.6	24.8	19.6	16.8	18.9	17.9	15.8	14.7	13.0	17.5	27.1
76 Halsted Street, Little Calumet River	9.3	10.2	11.1	8.4	10.3	11.1	10.3	8.8	11.2	15.2	16.0
52 Wentworth Avenue, Little Calumet River	33.6	32.2	30.9	16.1	22.6	24.7	33.0	30.1	30.6	43.8	41.9
54 Joe Orr Road, Thorn Creek	5.8	63.6	17.8	29.4	8.0	10.3	22.0	10.4	14.8	14.5	12.8
97 170th Street, Thorn Creek	26.5	46.2	29.2	19.8	14.9	27.6	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	24.3	42.5	27.5	20.1	16.6	26.2	21.3	22.5	37.8	34.3	24.1
58 Ashland Avenue, Calumet Sag Channel	11.5	13.4	14.7	14.5	12.0	14.8	13.3	13.8	12.9	26.2	20.6
59 Cicero Avenue, Calumet Sag Channel	14.3	14.2	17.8	14.3	14.6	15.2	13.3	14.8	16.4	21.1	25.8
43 Route 83, Calumet Sag Channel	18.6	14.2	15.7	20.7	16.2	22.0	18.5	15.4	17.1	26.4	29.8
Des Plaines River System											
90 Route 19, Poplar Creek	20.3	14.7	10.0	17.1	11.9	13.2	18.6	16.2	11.8	40.0	105.5
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	22.6	ND	20.3	21.8	17.7	14.6	21.3	39.5
89 Walnut Lane, West Branch DuPage River	7.4	7.6	8.3	10.2	7.5	9.0	13.5	12.4	7.0	11.4	26.8
64 Lake Street, West Branch DuPage River	25.4	26.3	22.5	19.0	18.6	21.3	27.6	22.0	19.7	25.8	38.5
79 Higgins Road, Salt Creek	30.4	42.9	23.2	30.3	24.6	22.5	29.4	23.7	21.1	33.5	61.8
80 Arlington Heights Road, Salt Creek	9.8	6.5	5.7	8.1	6.9	9.8	10.8	11.2	7.0	12.3	8.8
18 Devon Avenue, Salt Creek	11.1	10.1	11.6	9.6	9.2	11.8	15.6	15.7	9.7	18.2	14.5
24 Wolf Road, Salt Creek	28.7	20.1	16.2	22.6	13.8	17.2	22.6	20.7	13.7	31.5	25.9
109 Brookfield Avenue, Salt Creek	32.5	23.3	17.0	27.8	13.0	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	12.9	18.1	23.0	22.0	14.9	29.8	24.5
77 Elmhurst Road, Higgins Creek	32.5	29.3	29.5	23.0	22.2	18.8	27.7	22.1	17.3	23.5	77.4
78 Wille Road, Higgins Creek	4.8	3.9	5.1	7.1	6.9	7.3	7.2	5.4	7.9	7.8	17.5
12 Lake-Cook Road, Buffalo Creek	25.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	20.7	19.4	18.5	18.7	15.8	16.9	23.9	22.0	18.6	30.1	22.1
17 Oakton Steet, Des Plaines River	19.5	15.1	18.4	21.7	15.6	18.4	27.5	24.5	23.6	39.9	24.2
19 Belmont Avenue, Des Plaines River	20.7	17.6	17.1	20.8	17.1	16.7	20.4	19.3	16.7	34.8	25.5
20 Roosevelt Road, Des Plaines River	21.3	17.5	16.8	21.3	16.1	16.9	22.3	19.8	17.3	32.2	23.3
22 Ogden Avenue, Des Plaines River	28.3	23.8	16.3	24.2	15.0	17.3	23.6	19.7	17.6	33.7	23.5
23 Willow Springs Road, Des Plaines River	26.3	20.9	19.1	19.6	15.8	22.9	26.0	22.5	23.7	30.6	29.4
29 Stephen Street, Des Plaines River	26.2	23.0	20.2	20.9	15.9	26.0	26.6	24.4	24.3	30.1	31.8
91 Material Service Road, Des Plaines River	22.1	25.8	20.5	22.4	16.9	24.7	24.5	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	19.1	25.2	32.9	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-55: ELECTRICAL CONDUCTIVITY MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (μmhos)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	1235	935	930	1109	1172
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-56: TOTAL KJELDAHL NITROGEN MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	1.32	2.18	ND	ND	ND	1.94
106 Dundee Road, West Fork North Branch Chicago River	1.90	1.31	1.58	1.88	1.52	2.16	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.36	1.41	1.04	1.25	2.01	1.50	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.09	1.36	1.05	1.24	1.26	1.34	1.67	1.13	0.98	1.22	1.05
104 Glenview Road, North Branch Chicago River	1.54	1.22	0.99	1.33	1.21	1.43	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.29	1.67	1.08	0.97	1.18	1.17	1.09	1.02	0.80	1.16	1.10
105 Frontage Road, Skokie River	1.32	1.25	0.96	1.16	1.26	1.36	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.43	1.22	1.04	1.12	1.58	1.71	1.45	1.21	1.03	1.47	1.43
96 Albany Avenue, North Branch Chicago River	1.27	1.31	0.94	1.17	1.40	1.96	1.60	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.57	0.39	0.54	0.84	1.02	0.63	1.05	1.27	0.76	0.38	2.25
102 Oakton Street, North Shore Channel	1.41	1.54	1.45	1.91	1.81	1.10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.99	3.08	2.35	2.75	2.60	2.66	2.65	2.48	2.08	2.83	4.17
101 Foster Avenue, North Shore Channel	2.07	3.53	3.31	3.02	2.98	2.70	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.97	3.19	3.07	2.63	2.60	2.66	3.10	3.34	2.20	2.93	4.17
73 Diversey Parkway, North Branch Chicago River	1.71	2.25	2.20	2.39	2.33	2.43	2.52	2.20	1.58	2.44	3.37
46 Grand Avenue, North Branch Chicago River	1.85	2.82	2.26	2.16	2.51	2.34	2.40	2.18	1.94	2.27	3.06
74 Lake Shore Drive, Chicago River	0.48	0.73	0.66	0.73	0.67	1.01	1.10	0.63	0.43	0.50	0.43
100 Wells Street, Chicago River	0.87	1.15	1.25	1.59	1.10	1.08	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	1.46	2.32	1.93	2.35	2.46	1.94	2.36	1.75	1.67	1.36	1.72
108 Loomis Street, South Branch Chicago River	1.71	2.33	2.00	1.69	2.03	1.60	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.49	2.46	2.07	2.07	2.62	3.35	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.64	2.31	1.99	1.97	ND	ND	2.31	1.80	1.31	1.85	2.03
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	2.20	2.02	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.70	2.10	1.80	1.96	2.15	1.92	1.99	1.64	1.48	1.51	2.31
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.55	1.93	1.20	1.51	1.68	1.91	1.72	1.43	1.50	2.05	2.86
42 Route 83, Chicago Sanitary & Ship Canal	1.61	1.81	1.45	1.62	1.97	1.94	1.65	1.70	1.86	2.48	2.80
48 Stephen Street, Chicago Sanitary & Ship Canal	1.74	1.76	1.32	1.57	1.91	1.87	1.93	1.71	1.49	2.05	2.49
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	1.96	1.77	1.71	1.90	2.26
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.61	1.67	1.38	1.58	1.66	1.86	1.83	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.38	0.25	0.18	0.23	0.35	0.41	0.51	0.59	0.48	0.37	0.76
50 Burnham Avenue, Wolf Lake	0.74	0.73	0.57	0.52	0.49	0.62	0.73	0.47	0.55	0.72	0.68
55 130th Street, Calumet River	0.76	0.70	0.45	0.58	0.71	0.85	0.66	0.69	0.49	0.51	0.67
86 Burnham Avenue, Grand Calumet River	3.19	4.31	2.65	3.85	2.89	2.58	4.32	3.34	2.10	1.98	6.36
56 Indiana Avenue, Little Calumet River	1.09	0.84	0.88	1.02	1.02	1.05	1.01	1.10	1.00	1.20	1.74
76 Halsted Street, Little Calumet River	1.35	1.26	1.00	1.16	1.39	1.58	1.50	1.38	1.27	1.66	2.66
52 Wentworth Avenue, Little Calumet River	1.64	1.61	1.45	1.58	1.58	1.73	2.03	2.39	2.65	1.53	1.76
54 Joe Orr Road, Thorn Creek	1.42	1.55	1.27	1.19	1.47	1.53	1.92	1.43	1.23	1.38	2.02
97 170th Street, Thorn Creek	1.28	1.34	1.11	1.28	1.46	1.58	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.43	1.58	1.15	1.23	1.42	1.60	1.46	1.44	1.42	1.40	1.42
58 Ashland Avenue, Calumet Sag Channel	1.47	1.30	1.03	1.22	1.35	1.55	1.50	1.37	1.11	1.62	1.83
59 Cicero Avenue, Calumet Sag Channel	1.50	1.41	1.19	1.26	1.49	1.67	2.22	1.46	1.37	1.83	2.27
43 Route 83, Calumet Sag Channel	1.37	1.25	1.15	1.32	1.50	1.94	1.45	1.42	1.25	1.92	2.49
Des Plaines River System											
90 Route 19, Poplar Creek	1.13	0.94	0.68	1.03	0.87	1.03	1.31	1.78	0.74	1.22	1.14
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	1.93	ND	1.88	1.66	1.81	1.66	1.82	2.19
89 Walnut Lane, West Branch DuPage River	1.72	1.93	1.56	2.28	1.83	2.30	2.37	2.64	2.34	2.12	2.12
64 Lake Street, West Branch DuPage River	1.84	2.09	1.93	2.37	2.05	2.53	2.70	2.25	2.52	2.42	2.24
79 Higgins Road, Salt Creek	1.45	1.41	1.07	1.47	1.60	1.49	1.82	1.17	1.31	1.36	1.27
80 Arlington Heights Road, Salt Creek	1.37	1.16	1.27	1.84	1.83	1.64	1.74	1.46	1.45	1.58	1.55
18 Devon Avenue, Salt Creek	1.38	1.42	1.35	1.86	1.87	1.74	1.73	1.47	1.33	1.51	1.86
24 Wolf Road, Salt Creek	1.38	1.25	0.91	1.48	1.44	1.52	1.61	1.23	1.12	1.56	1.84
109 Brookfield Avenue, Salt Creek	1.53	1.23	0.88	1.48	1.41	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	1.56	1.39	1.62	1.42	1.05	1.50	1.47
77 Elmhurst Road, Higgins Creek	1.38	1.29	0.74	1.40	1.31	1.34	1.41	1.29	0.82	0.92	1.23
78 Wille Road, Higgins Creek	1.84	1.51	1.45	1.49	1.65	1.85	2.35	1.74	1.37	2.10	1.44
12 Lake-Cook Road, Buffalo Creek	1.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.40	1.34	0.98	1.51	1.78	1.48	1.82	1.22	1.26	1.33	1.12
17 Oakton Steet, Des Plaines River	1.39	1.31	1.02	1.54	1.52	1.55	1.58	1.18	1.24	1.36	1.49
19 Belmont Avenue, Des Plaines River	1.46	1.28	0.96	1.66	1.42	1.66	2.27	1.13	1.26	1.54	1.58
20 Roosevelt Road, Des Plaines River	1.37	1.20	1.03	1.65	1.35	1.56	1.57	1.14	1.29	1.58	1.58
22 Ogden Avenue, Des Plaines River	1.45	1.25	0.92	2.00	1.36	1.60	1.49	1.11	1.48	1.75	1.52
23 Willow Springs Road, Des Plaines River	1.50	1.23	0.99	1.26	1.57	1.69	1.67	1.08	1.39	1.39	1.57
29 Stephen Street, Des Plaines River	1.42	1.29	1.02	1.52	1.50	1.87	1.35	1.15	1.52	1.67	1.62
91 Material Service Road, Des Plaines River	1.49	1.29	1.02	1.62	1.49	1.63	1.63	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	2.35	2.49	2.35	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-57: AMMONIUM NITROGEN MEAN HISTORY
1996 THROUGH 2006**

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.300	0.470	ND	ND	ND	0.238
106 Dundee Road, West Fork North Branch Chicago River	0.714	0.228	0.565	0.327	0.145	0.445	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.251	0.265	0.232	0.215	0.797	0.277	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.119	0.190	0.205	0.178	0.124	0.139	0.169	0.038	0.048	0.109	0.074
104 Glenview Road, North Branch Chicago River	0.198	0.144	0.223	0.113	0.086	0.103	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.213	0.320	0.166	0.221	0.110	0.190	0.187	0.077	0.083	0.091	0.184
105 Frontage Road, Skokie River	0.114	0.152	0.166	0.103	0.058	0.100	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.201	0.154	0.191	0.167	0.361	0.336	0.158	0.039	0.064	0.099	0.224
96 Albany Avenue, North Branch Chicago River	0.108	0.153	0.158	0.153	0.241	0.477	0.413	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.139	0.071	0.310	0.331	0.313	0.183	0.301	0.348	0.413	0.020	1.197
102 Oakton Street, North Shore Channel	0.553	0.773	0.885	0.930	0.696	0.376	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.685	1.718	1.348	1.548	0.987	1.063	1.273	0.921	0.911	1.470	2.474
101 Foster Avenue, North Shore Channel	0.876	2.104	2.176	1.828	1.428	1.185	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.770	1.881	2.005	1.365	1.153	1.083	1.653	1.772	1.158	1.701	2.609
73 Diversey Parkway, North Branch Chicago River	0.643	1.091	1.276	1.197	0.959	0.863	1.227	0.883	0.583	1.368	1.923
46 Grand Avenue, North Branch Chicago River	0.638	1.617	1.415	1.216	1.171	0.968	1.201	0.954	0.992	1.272	1.799
74 Lake Shore Drive, Chicago River	0.105	0.400	0.339	0.348	0.238	0.413	0.372	0.215	0.137	0.067	0.153
100 Wells Street, Chicago River	0.229	0.583	0.686	0.798	0.500	0.462	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.541	1.361	1.197	1.270	1.142	0.879	0.906	0.822	0.538	0.607	0.837
108 Loomis Street, South Branch Chicago River	0.730	1.360	1.251	0.819	0.988	0.587	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.620	1.320	1.136	1.062	1.123	1.715	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.618	1.277	1.185	0.969	ND	ND	1.116	0.847	0.524	0.920	1.090
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.968	0.878	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.617	1.175	1.107	0.941	0.869	0.769	0.843	0.793	0.403	0.721	1.256
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.364	0.941	0.508	0.499	0.534	0.754	0.438	0.357	0.495	0.716	1.318
42 Route 83, Chicago Sanitary & Ship Canal	0.482	0.816	0.649	0.643	0.655	0.756	0.630	0.604	0.636	1.184	1.416
48 Stephen Street, Chicago Sanitary & Ship Canal	0.544	0.797	0.564	0.598	0.718	0.721	0.692	0.601	0.486	0.858	1.281
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.619	0.449	0.343	0.444	0.614
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.479	0.654	0.635	0.588	0.502	0.654	0.595	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.057	0.109	0.114	0.124	0.063	0.108	0.113	0.056	0.044	0.010	0.051
50 Burnham Avenue, Wolf Lake	0.098	0.183	0.203	0.118	0.018	0.087	0.092	0.056	0.018	0.003	0.045
55 130th Street, Calumet River	0.180	0.235	0.240	0.249	0.098	0.214	0.195	0.124	0.114	0.083	0.162
86 Burnham Avenue, Grand Calumet River	1.434	1.659	1.399	1.735	0.952	0.934	1.586	1.059	0.417	0.632	3.459
56 Indiana Avenue, Little Calumet River	0.193	0.199	0.256	0.317	0.115	0.127	0.307	0.276	0.307	0.396	0.755
76 Halsted Street, Little Calumet River	0.259	0.284	0.298	0.268	0.188	0.355	0.332	0.332	0.348	0.488	2.410
52 Wentworth Avenue, Little Calumet River	0.178	0.365	0.360	0.319	0.230	0.274	0.278	0.297	0.161	0.181	0.201
54 Joe Orr Road, Thorn Creek	0.153	0.240	0.324	0.127	0.116	0.110	0.380	0.057	0.034	0.124	0.734
97 170th Street, Thorn Creek	0.135	0.315	0.304	0.248	0.253	0.275	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.154	0.355	0.379	0.330	0.182	0.248	0.295	0.232	0.183	0.204	0.212
58 Ashland Avenue, Calumet Sag Channel	0.302	0.320	0.298	0.294	0.186	0.415	0.374	0.346	0.291	0.484	0.962
59 Cicero Avenue, Calumet Sag Channel	0.278	0.360	0.356	0.256	0.252	0.448	0.490	0.406	0.336	0.526	1.011
43 Route 83, Calumet Sag Channel	0.261	0.321	0.438	0.260	0.317	0.513	0.336	0.375	0.309	0.659	0.892
Des Plaines River System											
90 Route 19, Poplar Creek	0.113	0.108	0.107	0.149	0.034	0.105	0.106	0.067	0.075	0.074	0.073
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.240	ND	0.305	0.154	0.131	0.135	0.225	0.368
89 Walnut Lane, West Branch DuPage River	0.122	0.273	0.332	0.482	0.117	0.294	0.341	0.367	0.192	0.191	0.258
64 Lake Street, West Branch DuPage River	0.252	0.482	0.552	0.596	0.287	0.460	0.645	0.421	0.601	0.415	0.387
79 Higgins Road, Salt Creek	0.111	0.100	0.140	0.214	0.090	0.106	0.172	0.067	0.118	0.076	0.156
80 Arlington Heights Road, Salt Creek	0.114	0.157	0.382	0.465	0.299	0.192	0.145	0.090	0.178	0.137	0.285
18 Devon Avenue, Salt Creek	0.124	0.193	0.313	0.501	0.360	0.228	0.161	0.093	0.243	0.132	0.358
24 Wolf Road, Salt Creek	0.153	0.163	0.195	0.241	0.218	0.171	0.196	0.127	0.155	0.131	0.208
109 Brookfield Avenue, Salt Creek	0.154	0.166	0.186	0.211	0.178	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.347	0.160	0.192	0.105	0.134	0.121	0.207
77 Elmhurst Road, Higgins Creek	0.199	0.123	0.180	0.240	0.107	0.187	0.134	0.116	0.158	0.107	0.186
78 Wille Road, Higgins Creek	0.405	0.269	0.437	0.331	0.211	0.250	0.396	0.245	0.297	0.515	0.151
12 Lake-Cook Road, Buffalo Creek	0.117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.086	0.190	0.179	0.162	0.091	0.104	0.143	0.108	0.177	0.083	0.127
17 Oakton Steet, Des Plaines River	0.115	0.145	0.192	0.150	0.071	0.093	0.107	0.075	0.100	0.075	0.108
19 Belmont Avenue, Des Plaines River	0.124	0.143	0.273	0.198	0.118	0.157	0.177	0.116	0.223	0.171	0.184
20 Roosevelt Road, Des Plaines River	0.107	0.143	0.188	0.166	0.097	0.140	0.145	0.093	0.183	0.205	0.136
22 Ogden Avenue, Des Plaines River	0.122	0.161	0.134	0.144	0.107	0.127	0.150	0.089	0.128	0.190	0.142
23 Willow Springs Road, Des Plaines River	0.147	0.124	0.155	0.162	0.072	0.134	0.160	0.089	0.175	0.080	0.101
29 Stephen Street, Des Plaines River	0.133	0.111	0.109	0.166	0.100	0.121	0.146	0.077	0.151	0.128	0.150
91 Material Service Road, Des Plaines River	0.137	0.122	0.119	0.161	0.057	0.115	0.140	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.555	0.454	0.541	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-58: UN-IONIZED AMMONIA MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.001	0.004	ND	ND	ND	0.007
106 Dundee Road, West Fork North Branch Chicago River	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	0.003	0.005	0.003	0.008	0.007	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.002	0.002	0.003	0.001	0.002	0.006	0.001	0.002	0.002	0.003
104 Glenview Road, North Branch Chicago River	0.003	0.002	0.002	0.003	0.001	0.003	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.003	0.011	0.002	0.003	0.001	0.003	0.007	0.002	0.001	0.002	0.016
105 Frontage Road, Skokie River	0.003	0.001	0.002	0.001	0.001	0.004	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.005	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	0.003	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	0.009	0.003	0.008	0.004	0.020	0.008	0.030	0.002	0.022
102 Oakton Street, North Shore Channel	0.004	0.005	0.011	0.007	0.006	0.003	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.005	0.012	0.010	0.009	0.013	0.007	0.051	0.021	0.035	0.027	0.035
101 Foster Avenue, North Shore Channel	0.005	0.019	0.011	0.007	0.011	0.006	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.007	0.021	0.035	0.017	0.010	0.011	0.058	0.033	0.052	0.050	0.045
73 Diversey Parkway, North Branch Chicago River	0.016	0.009	0.012	0.008	0.007	0.003	0.037	0.015	0.082	0.053	0.095
46 Grand Avenue, North Branch Chicago River	0.005	0.012	0.017	0.010	0.011	0.004	0.017	0.023	0.049	0.009	0.017
74 Lake Shore Drive, Chicago River	0.002	0.004	0.005	0.002	0.002	0.008	0.005	0.005	0.007	0.003	0.002
100 Wells Street, Chicago River	0.003	0.005	0.006	0.004	0.003	0.010	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.007	0.014	0.007	0.006	0.007	0.008	0.011	0.051	0.023	0.007	0.010
108 Loomis Street, South Branch Chicago River	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	0.009	0.008	0.008	0.010	0.018	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	0.011	0.011	0.007	ND	ND	0.012	0.026	0.081	0.013	0.015
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.009	0.006	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.023	0.011	0.008	0.019	0.005	0.007	0.031	0.051	0.051	0.022
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.007	0.006	0.003	0.003	0.005	0.006	0.006	0.021	0.010	0.016
42 Route 83, Chicago Sanitary & Ship Canal	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	0.003	0.003	0.004	0.003	0.005	0.004	0.008	0.015	0.020	0.009	0.017
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	0.005	0.007	0.007	0.006	0.005	0.004	0.008	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.001	0.004	0.002	0.002	0.002	0.005	0.003	0.003	0.000	0.006
50 Burnham Avenue, Wolf Lake	0.012	0.003	0.004	0.008	0.001	0.003	0.005	0.003	0.001	0.000	0.004
55 130th Street, Calumet River	0.005	0.004	0.005	0.006	0.004	0.002	0.004	0.005	0.005	0.001	0.032
86 Burnham Avenue, Grand Calumet River	0.012	0.015	0.016	0.048	0.024	0.009	0.048	0.028	0.009	0.003	0.120
56 Indiana Avenue, Little Calumet River	0.008	0.001	0.003	0.004	0.002	0.004	0.024	0.012	0.014	0.006	0.062
76 Halsted Street, Little Calumet River	0.003	0.003	0.002	0.002	0.002	0.002	0.005	0.009	0.007	0.017	0.011
52 Wentworth Avenue, Little Calumet River	0.004	0.002	0.004	0.005	0.003	0.003	0.011	0.007	0.010	0.003	0.052
54 Joe Orr Road, Thorn Creek	0.003	0.001	0.002	0.001	0.001	0.001	0.006	0.005	0.001	0.010	0.006
97 170th Street, Thorn Creek	0.003	0.001	0.003	0.003	0.004	0.002	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.002	0.009	0.004	0.002	0.002	0.003	0.012	0.007	0.020	0.003
58 Ashland Avenue, Calumet Sag Channel	0.002	0.001	0.002	0.003	0.002	0.003	0.004	0.012	0.021	0.020	0.006
59 Cicero Avenue, Calumet Sag Channel	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	0.002	0.006	0.004	0.001	0.009	0.003	0.030	0.023	0.043	0.009
Des Plaines River System											
90 Route 19, Poplar Creek	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	0.003	ND	0.002	0.011	0.003	0.014	0.003	0.036
89 Walnut Lane, West Branch DuPage River	0.001	0.003	0.003	0.004	0.001	0.004	0.038	0.018	0.006	0.002	0.015
64 Lake Street, West Branch DuPage River	0.003	0.005	0.005	0.005	0.006	0.006	0.148	0.018	0.035	0.008	0.020
79 Higgins Road, Salt Creek	0.004	0.002	0.001	0.002	0.004	0.001	0.024	0.007	0.011	0.002	0.005
80 Arlington Heights Road, Salt Creek	0.001	0.006	0.003	0.004	0.002	0.002	0.024	0.003	0.008	0.010	0.005
18 Devon Avenue, Salt Creek	0.002	0.006	0.002	0.005	0.002	0.011	0.029	0.003	0.011	0.003	0.004
24 Wolf Road, Salt Creek	0.002	0.002	0.003	0.002	0.003	0.003	0.004	0.012	0.003	0.003	0.008
109 Brookfield Avenue, Salt Creek	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	0.001	0.002	0.002	0.013	0.003	0.002	0.006
77 Elmhurst Road, Higgins Creek	0.002	0.003	0.003	0.003	0.001	0.004	0.004	0.016	0.005	0.003	0.006
78 Wille Road, Higgins Creek	0.005	0.003	0.007	0.005	0.001	0.005	0.006	0.022	0.007	0.059	0.006
12 Lake-Cook Road, Buffalo Creek	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.003	0.004	0.002	0.002	0.002	0.014	0.007	0.011	0.002	0.012
17 Oakton Steet, Des Plaines River	0.002	0.002	0.003	0.003	0.001	0.002	0.002	0.016	0.002	0.002	0.005
19 Belmont Avenue, Des Plaines River	0.002	0.002	0.004	0.004	0.001	0.003	0.002	0.017	0.005	0.005	0.007
20 Roosevelt Road, Des Plaines River	0.003	0.001	0.004	0.004	0.001	0.002	0.004	0.014	0.003	0.002	0.005
22 Ogden Avenue, Des Plaines River	0.002	0.002	0.002	0.001	0.001	0.002	0.001	0.011	0.003	0.027	0.004
23 Willow Springs Road, Des Plaines River	0.003	0.003	0.002	0.003	0.001	0.002	0.004	0.010	0.004	0.003	0.007
29 Stephen Street, Des Plaines River	0.002	0.002	0.001	0.003	0.002	0.002	0.005	0.010	0.005	0.004	0.011
91 Material Service Road, Des Plaines River	0.004	0.003	0.002	0.003	0.002	0.003	0.003	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.007	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-59: ORGANIC NITROGEN MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	1.02	1.71	ND	ND	ND	1.70
106 Dundee Road, West Fork North Branch Chicago River	1.19	1.08	1.01	1.56	1.38	1.71	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.11	1.15	0.81	1.04	1.21	1.22	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.97	1.17	0.85	1.06	1.14	1.20	1.50	1.09	0.93	1.11	0.98
104 Glenview Road, North Branch Chicago River	1.34	1.07	0.77	1.22	1.12	1.33	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.08	1.35	0.91	0.75	1.07	0.98	0.91	0.95	0.72	1.07	0.92
105 Frontage Road, Skokie River	1.20	1.10	0.80	1.05	1.20	1.26	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.23	1.06	0.85	0.95	1.22	1.38	1.29	1.17	0.97	1.37	1.20
96 Albany Avenue, North Branch Chicago River	1.16	1.16	0.78	1.01	1.15	1.48	1.19	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.44	0.32	0.24	0.51	0.71	0.44	0.75	0.92	0.42	0.36	1.06
102 Oakton Street, North Shore Channel	0.86	0.77	0.57	0.98	1.11	0.73	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.32	1.37	1.00	1.21	1.61	1.60	1.37	1.56	1.17	1.36	1.70
101 Foster Avenue, North Shore Channel	1.20	1.43	1.14	1.19	1.55	1.52	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.20	1.31	1.06	1.27	1.45	1.57	1.45	1.56	1.04	1.23	1.56
73 Diversey Parkway, North Branch Chicago River	1.07	1.16	0.92	1.20	1.37	1.57	1.30	1.31	1.00	1.07	1.45
46 Grand Avenue, North Branch Chicago River	1.22	1.20	0.84	0.94	1.34	1.37	1.20	1.23	0.95	0.99	1.26
74 Lake Shore Drive, Chicago River	0.37	0.34	0.31	0.38	0.43	0.59	0.73	0.41	0.31	0.44	0.28
100 Wells Street, Chicago River	0.64	0.57	0.56	0.79	0.60	0.61	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.92	0.95	0.73	1.08	1.32	1.06	1.46	0.93	1.13	0.76	0.88
108 Loomis Street, South Branch Chicago River	0.98	0.97	0.75	0.87	1.04	1.01	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.87	1.14	0.94	1.01	1.50	1.64	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.03	1.03	0.81	1.00	ND	ND	1.20	0.95	0.79	0.93	0.94
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	1.23	1.14	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.08	0.92	0.70	1.02	1.28	1.15	1.14	0.85	1.07	0.87	1.05
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.18	0.99	0.69	1.01	1.15	1.16	1.28	1.07	1.01	1.33	1.54
42 Route 83, Chicago Sanitary & Ship Canal	1.13	0.99	0.80	0.98	1.31	1.18	1.02	1.09	1.22	1.30	1.38
48 Stephen Street, Chicago Sanitary & Ship Canal	1.20	0.96	0.76	0.98	1.19	1.15	1.24	1.11	1.00	1.19	1.21
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	1.35	1.33	1.37	1.45	1.64
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.13	1.02	0.75	0.99	1.16	1.21	1.24	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.32	0.15	0.09	0.12	0.29	0.30	0.40	0.57	0.44	0.36	0.71
50 Burnham Avenue, Wolf Lake	0.64	0.55	0.37	0.40	0.47	0.53	0.64	0.46	0.53	0.72	0.63
55 130th Street, Calumet River	0.58	0.47	0.20	0.33	0.61	0.64	0.46	0.56	0.38	0.43	0.51
86 Burnham Avenue, Grand Calumet River	1.76	2.65	1.25	2.12	1.94	1.64	2.73	2.29	1.69	1.35	2.90
56 Indiana Avenue, Little Calumet River	0.90	0.64	0.69	0.69	0.90	0.92	0.70	0.82	0.69	0.80	0.99
76 Halsted Street, Little Calumet River	1.10	0.98	0.70	0.89	1.20	1.23	1.17	1.05	0.92	1.17	1.41
52 Wentworth Avenue, Little Calumet River	1.46	1.25	1.09	1.26	1.35	1.46	1.75	2.09	2.49	1.35	1.55
54 Joe Orr Road, Thorn Creek	1.27	1.31	0.94	1.06	1.36	1.42	1.54	1.37	1.19	1.25	1.43
97 170th Street, Thorn Creek	1.14	1.02	0.81	1.03	1.21	1.30	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.28	1.23	0.77	0.90	1.24	1.35	1.16	1.21	1.24	1.20	1.21
58 Ashland Avenue, Calumet Sag Channel	1.17	0.98	0.73	0.93	1.16	1.13	1.12	1.03	0.82	1.13	1.18
59 Cicero Avenue, Calumet Sag Channel	1.22	1.05	0.83	1.01	1.24	1.22	1.73	1.06	1.04	1.31	1.26
43 Route 83, Calumet Sag Channel	1.11	0.93	0.72	1.06	1.19	1.43	1.12	1.05	0.94	1.26	1.60
Des Plaines River System											
90 Route 19, Poplar Creek	1.02	0.83	0.57	0.88	0.83	0.92	1.20	1.71	0.66	1.14	1.07
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	1.69	ND	1.58	1.50	1.68	1.52	1.60	1.82
89 Walnut Lane, West Branch DuPage River	1.59	1.66	1.23	1.79	1.71	2.00	2.03	2.27	2.15	1.93	1.86
64 Lake Street, West Branch DuPage River	1.59	1.61	1.37	1.77	1.77	2.07	2.06	1.83	1.92	2.01	1.85
79 Higgins Road, Salt Creek	1.33	1.31	0.93	1.25	1.51	1.38	1.65	1.11	1.19	1.29	1.11
80 Arlington Heights Road, Salt Creek	1.26	1.01	0.88	1.37	1.53	1.45	1.60	1.37	1.27	1.44	1.38
18 Devon Avenue, Salt Creek	1.26	1.22	1.04	1.36	1.51	1.52	1.57	1.38	1.09	1.37	1.66
24 Wolf Road, Salt Creek	1.22	1.09	0.71	1.23	1.23	1.35	1.41	1.10	0.97	1.43	1.81
109 Brookfield Avenue, Salt Creek	1.38	1.07	0.70	1.27	1.23	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	1.22	1.23	1.43	1.32	0.92	1.38	1.39
77 Elmhurst Road, Higgins Creek	1.18	1.17	0.56	1.16	1.20	1.16	1.28	1.17	0.66	0.81	1.04
78 Wille Road, Higgins Creek	1.43	1.24	1.01	1.16	1.44	1.60	1.95	1.50	1.07	1.58	1.29
12 Lake-Cook Road, Buffalo Creek	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.32	1.15	0.80	1.35	1.69	1.38	1.68	1.12	1.08	1.25	1.00
17 Oakton Steet, Des Plaines River	1.27	1.16	0.83	1.39	1.45	1.45	1.48	1.11	1.14	1.28	1.38
19 Belmont Avenue, Des Plaines River	1.33	1.13	0.68	1.47	1.30	1.51	2.09	1.01	1.03	1.37	1.40
20 Roosevelt Road, Des Plaines River	1.26	1.06	0.84	1.48	1.25	1.42	1.43	1.04	1.10	1.38	1.44
22 Ogden Avenue, Des Plaines River	1.33	1.09	0.79	1.86	1.26	1.47	1.34	1.02	1.35	1.56	1.37
23 Willow Springs Road, Des Plaines River	1.35	1.11	0.83	1.10	1.50	1.56	1.51	0.99	1.22	1.31	1.47
29 Stephen Street, Des Plaines River	1.28	1.18	0.91	1.35	1.40	1.74	1.20	1.08	1.36	1.54	1.47
91 Material Service Road, Des Plaines River	1.36	1.17	0.90	1.45	1.44	1.51	1.49	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1.80	2.04	1.81	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-60: NITRITE PLUS NITRATE NITROGEN MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	2.60	7.57	ND	ND	ND	9.14
106 Dundee Road, West Fork North Branch Chicago River	3.68	7.14	9.95	5.27	4.00	5.14	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	3.11	3.88	2.86	2.97	4.03	3.11	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.42	0.24	0.33	0.35	0.38	0.37	0.35	0.41	0.51	0.43	0.37
104 Glenview Road, North Branch Chicago River	3.92	5.93	4.79	3.81	4.67	3.22	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	3.15	3.41	0.77	1.07	0.46	0.46	0.52	0.55	0.58	0.80	0.50
105 Frontage Road, Skokie River	5.33	7.00	5.74	6.42	5.83	3.87	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	3.74	5.06	4.24	5.10	4.57	2.65	4.51	4.93	3.85	5.13	5.01
96 Albany Avenue, North Branch Chicago River	3.83	4.64	4.75	4.24	4.24	3.05	5.37	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.34	0.23	0.35	1.00	0.34	0.28	0.29	0.32	0.22	0.25	0.20
102 Oakton Street, North Shore Channel	3.81	2.44	2.13	2.25	3.66	1.27	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	6.01	5.24	5.37	5.90	5.58	5.57	5.59	5.67	5.74	5.56	4.85
101 Foster Avenue, North Shore Channel	7.19	5.97	5.93	6.72	6.11	6.69	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	6.94	6.29	6.26	6.50	5.84	5.94	6.17	6.28	6.38	5.87	5.61
73 Diversey Parkway, North Branch Chicago River	6.41	6.04	6.50	6.02	5.29	5.48	5.49	6.23	5.46	5.16	5.44
46 Grand Avenue, North Branch Chicago River	6.22	5.77	5.36	5.86	5.47	4.86	5.63	5.51	5.27	4.74	4.92
74 Lake Shore Drive, Chicago River	1.04	1.07	1.50	1.38	1.38	1.93	1.84	1.08	0.96	0.39	0.42
100 Wells Street, Chicago River	2.15	2.22	2.52	3.41	2.31	2.33	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.03	4.37	4.68	5.19	4.37	3.61	4.28	4.33	3.41	2.39	2.58
108 Loomis Street, South Branch Chicago River	4.30	4.35	4.76	4.40	4.27	3.45	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.67	4.05	4.17	4.52	3.55	2.55	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.25	4.22	4.64	4.73	ND	ND	4.42	3.42	3.21	2.84	2.75
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	4.24	3.27	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.84	4.06	4.63	4.49	4.30	3.54	4.30	3.58	3.04	2.89	2.54
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.41	7.67	7.64	7.84	6.81	6.26	7.00	7.01	6.97	6.18	6.83
42 Route 83, Chicago Sanitary & Ship Canal	6.00	5.97	6.93	7.17	6.24	5.61	5.84	5.80	5.64	5.57	6.37
48 Stephen Street, Chicago Sanitary & Ship Canal	5.59	5.51	6.27	6.36	5.77	5.27	5.15	5.10	5.10	5.07	5.20
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	6.13	4.87	4.48	4.59	5.11
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.90	6.01	5.74	6.24	5.94	5.31	5.52	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.38	0.37	0.36	0.35	0.50	0.46	0.38	0.36	0.34	0.31	0.33
50 Burnham Avenue, Wolf Lake	0.09	0.13	0.11	0.09	0.10	0.16	0.09	0.78	0.12	0.23	0.16
55 130th Street, Calumet River	0.71	0.60	0.52	0.48	0.57	0.67	0.56	0.53	0.48	0.52	0.48
86 Burnham Avenue, Grand Calumet River	4.68	5.19	5.00	5.91	8.56	9.06	8.48	8.48	12.32	11.89	8.16
56 Indiana Avenue, Little Calumet River	1.86	1.37	1.36	1.78	2.39	1.95	1.86	1.79	3.18	4.04	1.64
76 Halsted Street, Little Calumet River	5.91	5.33	4.79	4.57	5.36	4.80	4.32	4.27	4.14	4.55	3.55
52 Wentworth Avenue, Little Calumet River	4.25	4.27	3.57	4.16	5.39	3.32	4.18	4.53	3.82	3.75	4.20
54 Joe Orr Road, Thorn Creek	9.88	6.39	7.33	7.67	9.86	6.81	7.92	7.68	6.80	6.79	7.59
97 170th Street, Thorn Creek	5.32	5.97	5.67	6.76	7.13	4.04	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4.08	3.67	3.06	4.01	4.35	3.07	4.31	3.71	2.82	3.64	3.56
58 Ashland Avenue, Calumet Sag Channel	5.66	5.17	4.51	4.57	5.39	4.57	4.22	3.32	3.59	3.78	3.34
59 Cicero Avenue, Calumet Sag Channel	5.32	5.22	4.58	4.48	5.39	4.26	4.26	3.40	3.78	3.91	3.26
43 Route 83, Calumet Sag Channel	4.78	5.35	4.38	4.11	4.67	4.25	4.20	3.37	3.50	3.97	3.33
Des Plaines River System											
90 Route 19, Poplar Creek	0.53	0.39	0.34	0.61	0.28	0.49	0.39	0.46	0.44	1.81	0.47
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	1.74	ND	1.32	0.63	2.88	2.57	2.13	1.84
89 Walnut Lane, West Branch DuPage River	8.57	8.85	9.43	7.58	7.13	7.24	6.98	8.01	8.34	8.89	7.91
64 Lake Street, West Branch DuPage River	8.38	8.64	8.83	7.32	6.70	6.79	5.78	6.86	8.52	7.87	8.24
79 Higgins Road, Salt Creek	0.26	0.27	0.25	0.45	0.23	0.28	0.47	0.26	0.51	0.29	0.33
80 Arlington Heights Road, Salt Creek	6.77	7.98	6.01	6.22	7.69	6.92	6.27	7.07	7.46	5.18	5.13
18 Devon Avenue, Salt Creek	6.92	8.19	6.40	6.46	7.32	7.22	6.40	7.31	7.24	4.70	5.32
24 Wolf Road, Salt Creek	6.22	8.12	6.54	6.71	7.66	5.87	5.27	6.67	6.97	5.84	6.49
109 Brookfield Avenue, Salt Creek	5.67	6.98	5.78	5.42	8.16	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	5.10	5.34	4.80	6.35	6.94	6.57	5.75
77 Elmhurst Road, Higgins Creek	0.57	0.44	0.47	0.55	0.41	0.58	0.46	0.34	0.34	0.45	0.73
78 Wille Road, Higgins Creek	5.46	9.44	5.42	4.85	5.67	5.44	4.25	4.99	6.96	5.85	4.41
12 Lake-Cook Road, Buffalo Creek	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	6.56	7.69	6.53	6.79	6.05	4.94	5.24	5.02	4.92	4.35	5.14
17 Oakton Steet, Des Plaines River	5.24	6.43	5.46	4.97	4.84	4.18	3.80	5.32	4.23	3.66	4.56
19 Belmont Avenue, Des Plaines River	4.86	5.93	4.69	4.56	4.62	3.87	3.54	4.54	4.00	3.87	4.16
20 Roosevelt Road, Des Plaines River	4.54	5.49	4.38	4.40	4.50	3.69	3.42	4.26	3.83	3.75	4.03
22 Ogden Avenue, Des Plaines River	4.89	5.79	4.70	5.91	5.21	3.98	3.78	5.02	4.75	4.45	4.20
23 Willow Springs Road, Des Plaines River	4.82	5.69	4.67	4.30	4.93	3.85	3.89	4.77	4.58	4.44	4.29
29 Stephen Street, Des Plaines River	5.08	6.04	4.69	5.03	5.18	3.70	3.91	4.61	4.64	4.55	4.27
91 Material Service Road, Des Plaines River	4.86	6.26	4.39	4.83	4.98	3.68	4.52	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.96	0.69	1.22	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-61: TOTAL SOLIDS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	1941	1948	ND	ND	ND	811
106 Dundee Road, West Fork North Branch Chicago River	900	1050	1300	645	926	941	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	919	1232	776	790	749	741	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	794	888	646	687	693	708	770	693	749	727	763
104 Glenview Road, North Branch Chicago River	704	756	711	733	631	631	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	709	858	712	682	661	737	828	704	772	840	819
105 Frontage Road, Skokie River	654	696	622	637	606	611	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	752	885	808	880	688	754	863	726	729	859	860
96 Albany Avenue, North Branch Chicago River	802	934	684	651	724	674	616	ND	ND	ND	ND
35 Central Street, North Shore Channel	229	244	250	292	321	230	363	299	276	246	320
102 Oakton Street, North Shore Channel	381	423	344	359	416	270	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	475	511	511	491	461	542	574	573	529	512	511
101 Foster Avenue, North Shore Channel	491	546	493	469	478	473	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	527	613	565	561	520	616	654	663	596	585	557
73 Diversey Parkway, North Branch Chicago River	522	570	543	565	514	642	654	655	592	622	590
46 Grand Avenue, North Branch Chicago River	555	597	591	610	503	602	587	596	620	547	618
74 Lake Shore Drive, Chicago River	256	274	300	312	314	403	402	297	320	235	237
100 Wells Street, Chicago River	337	369	382	409	366	378	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	456	483	464	500	469	565	517	484	492	370	418
108 Loomis Street, South Branch Chicago River	497	476	459	495	476	419	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	425	474	471	484	476	451	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	481	477	487	485	ND	ND	552	486	536	435	500
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	482	488	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	481	495	514	502	498	522	517	478	547	435	525
41 Harlem Avenue, Chicago Sanitary & Ship Canal	529	530	550	531	506	584	619	613	608	555	569
42 Route 83, Chicago Sanitary & Ship Canal	548	578	597	568	557	636	566	608	595	580	585
48 Stephen Street, Chicago Sanitary & Ship Canal	584	591	607	602	580	630	633	581	623	617	628
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	812	634	632	658	638
92 Lockport Forebay, Chicago Sanitary & Ship Canal	584	618	622	610	576	643	680	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	245	223	234	241	268	302	282	260	327	222	262
50 Burnham Avenue, Wolf Lake	241	279	275	245	247	265	255	231	286	265	272
55 130th Street, Calumet River	354	300	340	334	341	395	364	342	341	328	344
86 Burnham Avenue, Grand Calumet River	865	665	787	911	874	799	934	913	990	940	1364
56 Indiana Avenue, Little Calumet River	428	370	410	405	475	414	489	461	514	523	516
76 Halsted Street, Little Calumet River	590	559	579	547	547	622	697	664	589	647	734
52 Wentworth Avenue, Little Calumet River	700	612	745	828	838	706	835	772	740	814	818
54 Joe Orr Road, Thorn Creek	1490	1293	1530	979	1602	1230	1140	1096	1182	1273	1090
97 170th Street, Thorn Creek	1099	1252	1165	1308	1285	861	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	877	925	885	951	913	779	965	905	782	918	923
58 Ashland Avenue, Calumet Sag Channel	638	632	626	609	700	668	753	641	605	739	748
59 Cicero Avenue, Calumet Sag Channel	683	625	666	633	618	656	775	663	639	734	721
43 Route 83, Calumet Sag Channel	642	626	630	625	621	674	760	664	673	717	733
Des Plaines River System											
90 Route 19, Poplar Creek	804	766	756	662	711	733	657	672	810	776	845
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	646	ND	888	698	869	827	1020	963
89 Walnut Lane, West Branch DuPage River	656	619	650	608	591	645	651	622	615	628	755
64 Lake Street, West Branch DuPage River	683	701	697	632	661	710	658	630	684	709	772
79 Higgins Road, Salt Creek	804	1075	960	701	746	896	895	734	776	852	959
80 Arlington Heights Road, Salt Creek	788	733	679	668	666	743	749	670	709	781	828
18 Devon Avenue, Salt Creek	806	866	751	714	648	754	771	693	734	861	846
24 Wolf Road, Salt Creek	737	823	762	739	774	783	821	757	955	833	943
109 Brookfield Avenue, Salt Creek	765	809	812	707	565	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	1387	810	806	731	854	816	872
77 Elmhurst Road, Higgins Creek	1163	1110	1213	908	958	1120	879	858	1015	930	1081
78 Wille Road, Higgins Creek	712	716	707	672	764	785	733	700	786	833	828
12 Lake-Cook Road, Buffalo Creek	819	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	736	742	699	713	707	676	709	627	714	713	731
17 Oakton Steet, Des Plaines River	777	779	689	663	733	711	679	642	738	717	808
19 Belmont Avenue, Des Plaines River	779	783	749	749	758	702	675	637	720	765	802
20 Roosevelt Road, Des Plaines River	771	775	732	648	774	703	681	639	724	775	793
22 Ogden Avenue, Des Plaines River	759	778	732	712	813	743	713	665	745	804	805
23 Willow Springs Road, Des Plaines River	744	773	724	670	732	724	732	673	761	772	815
29 Stephen Street, Des Plaines River	758	772	702	667	754	733	734	671	768	846	850
91 Material Service Road, Des Plaines River	771	805	731	708	788	712	798	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1173	1077	986	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-62: TOTAL VOLATILE SOLIDS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7
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	4.3	6.6
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	3.9	6.7
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	5.8	5.0
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	4.5
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	5.0
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	3.6	4.4
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	4.5
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	4.7
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	3.9
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	3.5
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	3.1	3.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	5.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	4.8
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	3.5
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	3.8
82 Lockport Tribler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	138.9	112.8	135.8	15.2	14.0
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	2.6
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3	4.7
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	2.7
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	63.1
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	5.8
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3	3.0
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.3	9.0
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	3.3
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	7.8	5.0
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2	4.9
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	6.3
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	6.9
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.1	15.9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	14.9
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	15.8
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7	17.3
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.4	14.0
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	7.2
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	15.8
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.6	13.8
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	9.5	16.3
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	16.4
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5	10.0
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	7.3	9.4
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.6	12.8
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	11.8
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.3	10.4
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.6	10.8
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.5	13.8
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	13.8
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-63: TOTAL SUSPENDED SOLIDS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	71.0	120.0	ND	ND	ND	97.0
106 Dundee Road, West Fork North Branch Chicago River	93.4	31.5	56.1	50.7	39.8	46.8	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	34.0	29.7	23.6	25.6	28.5	32.1	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	69.3	24.2	22.0	21.2	30.6	38.8	22.6	24.7	36.2	22.7	32.0
104 Glenview Road, North Branch Chicago River	50.1	18.8	22.8	30.3	25.9	22.8	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	47.9	21.6	21.0	18.7	18.1	21.8	14.3	24.0	15.2	13.2	23.9
105 Frontage Road, Skokie River	23.8	18.4	25.2	19.4	21.6	22.4	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	39.8	25.3	21.8	20.9	30.2	25.8	28.6	29.6	31.8	27.4	22.5
96 Albany Avenue, North Branch Chicago River	28.3	16.8	22.5	20.3	24.4	21.6	15.0	ND	ND	ND	ND
35 Central Street, North Shore Channel	9.4	8.5	11.3	9.9	12.8	9.8	13.6	9.9	8.9	10.8	11.6
102 Oakton Street, North Shore Channel	16.5	11.6	15.2	19.7	20.5	16.6	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	11.7	10.9	15.4	9.4	15.3	8.5	10.8	10.3	10.3	9.4	11.5
101 Foster Avenue, North Shore Channel	12.3	12.2	12.7	9.6	15.4	10.4	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	14.3	15.0	13.9	12.3	18.5	16.8	15.0	13.0	10.6	12.3	13.1
73 Diversey Parkway, North Branch Chicago River	15.3	13.2	15.1	14.1	19.3	17.9	15.3	16.5	14.9	11.8	18.7
46 Grand Avenue, North Branch Chicago River	17.3	14.5	21.3	13.5	18.3	17.6	15.2	17.2	12.0	13.4	18.6
74 Lake Shore Drive, Chicago River	7.1	5.3	4.9	2.5	4.0	4.8	12.8	6.0	5.3	8.6	14.9
100 Wells Street, Chicago River	9.0	4.5	6.3	6.4	6.3	10.0	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	14.5	8.7	14.0	11.6	18.4	16.8	15.2	16.3	12.3	11.1	14.8
108 Loomis Street, South Branch Chicago River	16.2	12.6	11.8	12.5	12.2	17.9	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	12.4	12.5	13.2	11.8	14.4	19.8	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	17.8	12.7	14.6	13.7	ND	ND	19.1	14.0	13.4	13.8	13.6
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	19.3	19.6	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.2	13.0	17.8	13.9	15.1	20.8	16.5	18.5	13.7	14.2	16.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	12.3	9.6	8.5	8.1	11.6	10.8	11.5	13.2	10.0	12.2	14.3
42 Route 83, Chicago Sanitary & Ship Canal	11.7	7.5	9.0	10.6	11.5	12.1	8.8	8.3	10.5	11.2	9.0
48 Stephen Street, Chicago Sanitary & Ship Canal	18.2	15.0	15.8	16.2	13.4	15.2	16.8	11.5	15.3	15.9	17.5
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	19.2	37.0	57.4	64.3	38.3
92 Lockport Forebay, Chicago Sanitary & Ship Canal	15.8	14.5	14.6	14.7	15.1	15.5	15.6	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	7.3	6.7	9.7	8.7	7.1	11.3	12.6	12.3	15.3	10.8	14.5
50 Burnham Avenue, Wolf Lake	6.1	5.3	5.4	5.8	3.6	7.4	4.7	5.4	10.7	8.2	14.3
55 130th Street, Calumet River	8.5	6.5	7.7	9.3	12.5	20.7	14.0	8.6	10.4	12.3	12.8
86 Burnham Avenue, Grand Calumet River	21.0	49.9	18.9	17.0	16.2	16.9	23.5	16.4	18.2	14.6	182.6
56 Indiana Avenue, Little Calumet River	24.4	25.0	22.0	29.9	27.8	29.6	22.2	26.4	18.0	24.5	37.3
76 Halsted Street, Little Calumet River	12.9	11.3	14.8	10.5	15.2	15.4	11.6	12.7	20.7	26.3	17.3
52 Wentworth Avenue, Little Calumet River	44.1	37.9	32.4	28.7	30.5	53.5	55.4	67.3	94.4	67.2	64.1
54 Joe Orr Road, Thorn Creek	9.9	115.4	17.6	42.0	7.4	11.6	24.1	16.6	15.2	14.6	9.8
97 170th Street, Thorn Creek	32.4	55.4	40.5	30.2	24.1	38.3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	26.5	45.7	30.5	33.0	23.0	39.4	28.5	34.9	57.3	42.0	31.9
58 Ashland Avenue, Calumet Sag Channel	16.6	15.0	18.8	24.4	17.3	27.7	17.9	18.2	18.9	35.4	29.7
59 Cicero Avenue, Calumet Sag Channel	24.9	14.3	20.3	24.0	21.1	20.7	19.8	22.3	27.6	28.5	39.7
43 Route 83, Calumet Sag Channel	20.1	15.5	20.1	35.9	25.9	35.8	28.2	23.7	24.3	40.0	46.6
Des Plaines River System											
90 Route 19, Poplar Creek	25.2	15.9	15.3	30.4	18.9	18.2	36.4	23.1	17.7	49.6	122.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	36.0	ND	30.3	40.0	21.1	22.6	25.6	83.0
89 Walnut Lane, West Branch DuPage River	10.8	12.3	15.4	18.3	16.1	18.8	23.5	19.6	13.5	16.8	74.1
64 Lake Street, West Branch DuPage River	34.0	38.5	32.5	40.3	33.2	42.0	45.9	35.5	32.8	37.7	86.5
79 Higgins Road, Salt Creek	31.2	41.4	25.5	44.6	38.0	33.9	41.2	33.7	29.0	41.0	77.5
80 Arlington Heights Road, Salt Creek	10.2	9.8	9.0	8.8	8.3	11.3	11.7	14.4	8.5	14.8	17.5
18 Devon Avenue, Salt Creek	14.1	14.2	19.0	19.9	15.7	23.1	27.4	31.3	13.8	35.8	47.1
24 Wolf Road, Salt Creek	39.4	28.9	23.1	43.3	23.4	31.0	37.6	33.0	24.7	48.4	66.6
109 Brookfield Avenue, Salt Creek	42.7	25.1	19.9	56.1	18.7	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	20.7	29.3	40.6	33.6	26.3	52.9	83.0
77 Elmhurst Road, Higgins Creek	45.3	29.3	29.2	34.8	36.0	28.2	39.3	43.9	22.8	30.1	105.9
78 Wille Road, Higgins Creek	5.4	3.4	7.6	5.9	7.0	5.5	12.4	5.0	11.9	12.8	42.3
12 Lake-Cook Road, Buffalo Creek	29.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	27.3	24.0	23.2	36.8	28.7	29.8	33.8	32.8	32.3	42.4	45.2
17 Oakton Steet, Des Plaines River	26.1	17.9	23.0	42.1	28.8	29.8	45.9	36.2	40.5	50.3	60.9
19 Belmont Avenue, Des Plaines River	29.4	23.2	22.3	41.8	28.5	26.3	32.2	27.7	24.0	53.3	60.3
20 Roosevelt Road, Des Plaines River	26.9	23.8	21.7	43.4	31.0	26.6	31.0	27.3	25.0	50.1	51.1
22 Ogden Avenue, Des Plaines River	36.3	30.6	21.3	52.6	23.2	27.3	34.3	29.7	27.6	56.9	52.2
23 Willow Springs Road, Des Plaines River	27.8	22.3	24.0	33.4	24.0	33.2	43.9	30.5	37.9	44.1	59.9
29 Stephen Street, Des Plaines River	29.3	29.8	26.5	41.6	28.3	44.1	42.5	39.4	38.6	46.1	70.0
91 Material Service Road, Des Plaines River	27.7	35.0	28.2	46.1	30.1	45.1	38.7	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	17.9	30.5	49.2	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-64: VOLATILE SUSPENDED SOLIDS MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-65: TOTAL DISSOLVED SOLIDS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	1870	1828	ND	ND	ND	729
106 Dundee Road, West Fork North Branch Chicago River	807	1018	1244	595	886	894	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	885	1202	753	764	721	709	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	724	864	624	666	663	669	747	669	713	705	715
104 Glenview Road, North Branch Chicago River	654	737	689	703	605	608	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	661	836	691	664	643	715	814	680	757	827	795
105 Frontage Road, Skokie River	630	677	596	617	584	589	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	712	860	786	859	658	729	835	697	697	832	858
96 Albany Avenue, North Branch Chicago River	773	917	662	630	700	652	601	ND	ND	ND	ND
35 Central Street, North Shore Channel	219	236	239	282	309	220	350	289	267	235	316
102 Oakton Street, North Shore Channel	364	412	329	339	395	254	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	464	500	496	481	446	534	563	563	519	502	503
101 Foster Avenue, North Shore Channel	479	534	480	460	463	463	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	513	598	551	548	501	600	639	650	585	572	551
73 Diversey Parkway, North Branch Chicago River	507	557	528	551	495	624	639	639	577	610	578
46 Grand Avenue, North Branch Chicago River	538	582	570	597	485	585	572	579	608	533	610
74 Lake Shore Drive, Chicago River	249	269	295	309	310	398	389	291	315	227	221
100 Wells Street, Chicago River	328	364	376	403	360	368	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	441	474	450	488	450	548	502	467	480	359	410
108 Loomis Street, South Branch Chicago River	481	463	448	482	463	401	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	413	461	458	473	462	431	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	463	464	472	471	ND	ND	533	472	522	421	501
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	463	469	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	462	482	496	488	483	502	501	459	533	421	510
41 Harlem Avenue, Chicago Sanitary & Ship Canal	517	520	541	523	495	574	607	600	598	543	557
42 Route 83, Chicago Sanitary & Ship Canal	536	571	588	558	546	624	558	600	585	569	578
48 Stephen Street, Chicago Sanitary & Ship Canal	565	576	591	586	566	615	616	570	607	601	624
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	792	597	574	594	599
92 Lockport Forebay, Chicago Sanitary & Ship Canal	568	604	602	595	561	628	665	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	237	217	225	232	261	290	269	247	313	211	249
50 Burnham Avenue, Wolf Lake	235	273	269	239	243	258	250	226	275	257	258
55 130th Street, Calumet River	345	293	332	325	329	374	350	334	329	318	333
86 Burnham Avenue, Grand Calumet River	844	615	768	894	858	782	911	897	972	925	1181
56 Indiana Avenue, Little Calumet River	404	345	388	375	447	385	466	440	496	503	479
76 Halsted Street, Little Calumet River	577	548	564	536	532	606	685	651	564	626	717
52 Wentworth Avenue, Little Calumet River	656	574	712	800	808	653	780	705	645	747	754
54 Joe Orr Road, Thorn Creek	1480	1178	1512	937	1594	1218	1116	1080	1167	1258	1080
97 170th Street, Thorn Creek	1066	1196	1124	1277	1261	822	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	851	879	854	918	890	739	937	870	725	876	891
58 Ashland Avenue, Calumet Sag Channel	621	617	608	585	683	641	735	622	588	708	719
59 Cicero Avenue, Calumet Sag Channel	658	611	646	609	597	636	756	639	614	706	682
43 Route 83, Calumet Sag Channel	622	610	610	589	595	638	732	638	649	675	688
Des Plaines River System											
90 Route 19, Poplar Creek	779	750	740	631	692	715	620	649	792	726	723
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	610	ND	858	658	848	804	994	880
89 Walnut Lane, West Branch DuPage River	645	607	635	590	575	626	628	603	602	611	681
64 Lake Street, West Branch DuPage River	649	663	654	592	627	668	612	595	651	671	685
79 Higgins Road, Salt Creek	773	1034	903	656	708	862	854	700	747	811	882
80 Arlington Heights Road, Salt Creek	778	723	663	659	658	732	738	655	701	766	811
18 Devon Avenue, Salt Creek	792	851	721	694	632	731	743	662	721	825	799
24 Wolf Road, Salt Creek	698	794	723	696	750	752	784	724	931	785	877
109 Brookfield Avenue, Salt Creek	722	784	772	650	547	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	1366	780	765	697	828	763	789
77 Elmhurst Road, Higgins Creek	1118	1081	1040	873	922	1092	840	814	992	900	975
78 Wille Road, Higgins Creek	706	713	688	666	757	780	721	695	774	821	786
12 Lake-Cook Road, Buffalo Creek	790	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	709	718	664	677	678	646	675	594	682	670	685
17 Oakton Steet, Des Plaines River	751	761	651	620	704	681	633	606	697	667	747
19 Belmont Avenue, Des Plaines River	749	760	707	708	730	676	643	609	696	712	742
20 Roosevelt Road, Des Plaines River	744	752	691	605	743	676	650	611	699	725	742
22 Ogden Avenue, Des Plaines River	723	747	691	660	790	716	679	635	718	747	753
23 Willow Springs Road, Des Plaines River	716	751	675	637	708	690	688	642	723	728	755
29 Stephen Street, Des Plaines River	729	743	648	625	726	689	692	632	729	800	780
91 Material Service Road, Des Plaines River	743	770	679	662	758	667	759	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1155	1047	915	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-66: PHENOLS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	21.0	10.0	ND	ND	ND	10.5
106 Dundee Road, West Fork North Branch Chicago River	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	1.1	9.9	8.7	5.6	7.6	14.1	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.3	11.4	11.5	9.4	11.6	16.5	24.5	26.0	14.8	17.3	19.3
104 Glenview Road, North Branch Chicago River	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	8.0	11.6	7.9	9.1	15.3	19.6	21.0	13.4	15.8	14.8
105 Frontage Road, Skokie River	1.2	5.6	5.7	3.2	5.4	10.3	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.3	8.4	6.8	5.5	7.3	11.7	18.0	16.0	9.6	11.2	11.8
96 Albany Avenue, North Branch Chicago River	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	4.3	6.6	2.8	4.5	4.6	13.3	12.4	10.3	8.8	15.1
102 Oakton Street, North Shore Channel	1.0	7.1	7.8	6.5	6.0	7.9	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.5	9.1	9.4	7.3	9.0	14.3	22.2	20.4	13.4	13.5	12.3
101 Foster Avenue, North Shore Channel	1.0	9.8	9.8	6.2	9.0	12.2	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.0	8.5	8.9	6.5	8.3	13.3	20.6	18.7	11.4	12.6	13.0
73 Diversey Parkway, North Branch Chicago River	1.0	10.8	8.4	6.8	8.6	13.8	20.8	17.8	12.1	13.2	11.3
46 Grand Avenue, North Branch Chicago River	1.3	9.8	10.3	5.3	8.5	15.0	21.4	18.8	14.1	13.1	11.8
74 Lake Shore Drive, Chicago River	0.0	4.3	4.4	3.0	2.7	7.3	15.6	9.2	9.3	7.0	7.2
100 Wells Street, Chicago River	0.3	4.8	7.6	3.8	3.8	11.9	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.0	7.6	9.1	7.6	6.7	10.9	23.0	15.8	12.7	9.3	8.0
108 Loomis Street, South Branch Chicago River	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	0.7	8.7	9.5	5.8	9.5	17.7	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.7	8.3	8.3	5.6	ND	ND	23.0	15.6	11.3	12.1	8.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	7.5	11.8	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.9	6.8	7.9	5.0	7.7	11.7	17.5	16.0	13.6	11.1	10.4
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.5	6.6	8.5	5.6	6.8	14.8	18.5	15.3	12.5	14.1	12.4
42 Route 83, Chicago Sanitary & Ship Canal	0.3	9.5	9.7	6.2	8.7	13.4	19.1	17.4	13.4	10.4	10.8
48 Stephen Street, Chicago Sanitary & Ship Canal	0.0	9.2	9.0	6.6	8.3	12.8	21.8	17.9	14.9	12.7	11.6
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	15.3	10.5	12.6	10.9	10.2
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.8	8.8	8.6	5.7	7.5	10.9	18.5	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.9	2.0	2.7	1.6	1.7	3.3	7.3	7.2	5.7	8.0	6.8
50 Burnham Avenue, Wolf Lake	0.0	5.8	7.4	3.2	3.8	5.0	11.6	10.0	10.8	8.6	9.3
55 130th Street, Calumet River	0.4	4.9	3.6	1.1	1.8	5.0	10.5	8.2	6.9	8.0	7.5
86 Burnham Avenue, Grand Calumet River	1.9	16.1	11.9	7.6	6.1	8.0	22.8	20.0	14.4	10.4	34.5
56 Indiana Avenue, Little Calumet River	0.3	5.0	5.6	2.5	4.1	6.0	13.1	15.3	7.4	7.6	6.2
76 Halsted Street, Little Calumet River	0.9	9.9	8.9	7.2	9.4	11.4	24.1	46.6	13.8	12.8	13.3
52 Wentworth Avenue, Little Calumet River	0.8	14.4	22.4	12.6	16.5	12.5	23.1	13.4	12.5	12.9	12.9
54 Joe Orr Road, Thorn Creek	0.0	13.3	9.3	6.0	9.0	10.2	19.7	18.8	11.2	15.2	14.4
97 170th Street, Thorn Creek	0.0	9.0	9.7	6.2	8.0	7.8	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.3	10.2	10.9	7.5	8.4	11.9	19.9	21.1	15.8	14.0	14.4
58 Ashland Avenue, Calumet Sag Channel	0.3	9.1	9.3	7.8	8.8	11.8	21.1	22.6	17.5	15.3	13.7
59 Cicero Avenue, Calumet Sag Channel	0.5	10.5	10.3	7.9	9.3	13.5	20.6	26.3	15.4	14.2	20.0
43 Route 83, Calumet Sag Channel	0.4	10.0	9.7	5.5	10.2	11.5	19.1	21.5	16.1	12.7	13.8
Des Plaines River System											
90 Route 19, Poplar Creek	0.0	10.4	8.6	6.5	5.3	10.4	17.3	16.3	14.2	16.1	11.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	9.0	ND	18.0	20.1	18.8	14.3	14.4	17.9
89 Walnut Lane, West Branch DuPage River	0.0	9.5	13.3	8.8	7.8	17.1	19.7	20.1	16.9	13.0	14.7
64 Lake Street, West Branch DuPage River	0.3	8.2	9.1	7.9	6.3	15.8	22.5	19.3	15.3	13.6	14.7
79 Higgins Road, Salt Creek	0.4	10.6	8.4	7.9	6.1	13.4	17.1	16.6	15.3	12.8	12.1
80 Arlington Heights Road, Salt Creek	0.5	6.0	9.3	5.0	6.6	15.3	18.2	20.3	13.2	12.8	12.0
18 Devon Avenue, Salt Creek	0.0	5.5	10.4	6.3	5.1	16.2	17.6	19.5	13.7	13.3	22.0
24 Wolf Road, Salt Creek	1.2	5.8	6.7	6.0	5.7	12.4	17.1	16.3	9.5	12.7	10.2
109 Brookfield Avenue, Salt Creek	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	4.7	11.9	20.1	16.3	11.9	11.5	10.5
77 Elmhurst Road, Higgins Creek	1.9	11.3	13.0	12.2	5.8	14.9	28.4	21.6	14.4	17.0	12.8
78 Wille Road, Higgins Creek	1.0	8.1	15.5	8.8	11.3	19.0	26.6	25.0	14.8	16.7	12.1
12 Lake-Cook Road, Buffalo Creek	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.0	6.2	7.6	4.4	4.6	11.4	18.3	16.7	12.4	12.6	10.2
17 Oakton Steet, Des Plaines River	0.3	6.8	7.9	5.0	6.4	11.5	19.6	17.0	12.6	12.9	10.2
19 Belmont Avenue, Des Plaines River	1.3	6.5	9.5	5.8	5.3	11.8	20.3	17.9	13.5	13.3	10.4
20 Roosevelt Road, Des Plaines River	0.6	8.4	9.7	6.0	5.3	11.3	19.7	18.7	13.2	13.6	10.0
22 Ogden Avenue, Des Plaines River	0.7	7.6	8.8	7.6	5.0	12.5	19.6	16.9	11.5	13.9	11.3
23 Willow Springs Road, Des Plaines River	2.1	7.6	8.7	4.5	5.6	11.5	16.9	16.1	12.2	13.8	10.9
29 Stephen Street, Des Plaines River	0.9	6.1	8.4	5.3	5.2	14.8	16.3	18.1	13.6	13.0	9.9
91 Material Service Road, Des Plaines River	1.3	10.5	7.5	5.5	5.1	9.9	18.2	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1.3	15.7	18.0	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-67: SULFATE MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	74.5	77.0	ND	ND	ND	63.6
106 Dundee Road, West Fork North Branch Chicago River	53.3	63.0	76.5	64.3	61.8	67.2	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	77.9	75.4	75.3	76.4	64.5	61.8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	68.0	86.3	76.3	76.4	72.3	69.0	72.0	71.9	77.9	62.9	72.5
104 Glenview Road, North Branch Chicago River	66.8	65.1	69.8	67.8	64.1	64.8	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	61.6	65.4	76.6	80.4	62.3	70.4	74.4	79.2	87.6	78.6	89.2
105 Frontage Road, Skokie River	67.8	63.4	67.4	64.9	64.8	62.3	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	71.5	68.6	72.4	71.6	61.9	63.2	76.1	72.4	77.9	79.4	81.7
96 Albany Avenue, North Branch Chicago River	73.1	68.3	72.3	74.0	69.0	65.8	59.1	ND	ND	ND	ND
35 Central Street, North Shore Channel	28.7	26.8	33.8	36.6	34.9	25.6	32.5	34.3	34.1	32.1	34.3
102 Oakton Street, North Shore Channel	43.8	40.9	41.7	43.0	43.3	28.2	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	50.8	46.6	51.7	53.4	53.3	79.8	53.8	51.3	54.2	45.0	51.4
101 Foster Avenue, North Shore Channel	51.3	59.6	56.8	53.2	50.6	49.0	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	58.0	50.8	59.9	57.3	57.1	57.3	53.8	55.7	56.9	52.2	56.7
73 Diversey Parkway, North Branch Chicago River	55.8	50.9	62.2	59.0	55.6	58.2	55.8	68.5	56.5	48.8	61.1
46 Grand Avenue, North Branch Chicago River	57.4	54.1	60.6	58.9	56.3	56.3	55.4	59.2	60.1	53.1	60.2
74 Lake Shore Drive, Chicago River	36.6	29.7	36.8	35.6	32.0	32.0	39.3	32.6	29.9	24.8	28.1
100 Wells Street, Chicago River	39.1	35.4	40.5	44.3	36.6	36.0	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	49.6	47.6	51.8	54.8	49.1	45.8	50.4	51.3	47.2	37.1	39.7
108 Loomis Street, South Branch Chicago River	52.2	49.8	55.2	53.2	49.3	43.3	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	51.1	56.0	52.8	55.1	51.6	51.8	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	52.0	49.5	53.0	53.1	ND	ND	51.9	51.1	50.5	45.0	47.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	49.6	43.9	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	51.9	50.1	55.4	52.5	54.3	46.8	51.6	50.0	45.5	39.0	47.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	72.1	70.7	76.4	72.9	69.5	63.6	72.3	75.6	75.7	64.5	74.0
42 Route 83, Chicago Sanitary & Ship Canal	75.1	74.2	80.8	82.5	78.5	67.1	70.8	72.2	69.6	68.8	70.6
48 Stephen Street, Chicago Sanitary & Ship Canal	89.6	85.6	91.7	94.6	88.1	88.9	92.3	91.5	80.7	84.9	89.4
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	86.9	88.1	89.8	96.7	88.7	91.1	96.2	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	29.9	27.0	28.3	29.2	28.4	28.3	29.8	29.8	25.1	23.9	27.5
50 Burnham Avenue, Wolf Lake	39.4	41.0	43.5	35.2	36.6	38.9	38.6	35.3	32.2	33.0	31.5
55 130th Street, Calumet River	60.7	55.2	57.2	54.2	54.7	63.3	49.8	50.6	43.4	52.2	46.1
86 Burnham Avenue, Grand Calumet River	262.4	176.9	204.9	260.1	219.9	184.3	177.2	157.5	195.7	173.8	229.5
56 Indiana Avenue, Little Calumet River	74.7	64.1	70.4	74.3	78.9	73.4	77.8	72.4	88.2	83.9	76.4
76 Halsted Street, Little Calumet River	91.0	91.3	91.6	100.7	91.2	113.3	143.1	125.0	119.0	112.8	154.5
52 Westworth Avenue, Little Calumet River	130.0	116.2	143.9	180.2	146.0	122.5	145.1	131.2	122.0	128.8	143.7
54 Joe Orr Road, Thorn Creek	620.0	494.6	620.8	460.4	724.5	521.3	342.4	380.1	355.8	391.1	312.9
97 170th Street, Thorn Creek	419.3	465.3	403.1	498.3	445.9	255.8	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	241.5	289.4	235.0	293.1	241.9	161.0	190.1	229.8	158.0	179.7	216.8
58 Ashland Avenue, Calumet Sag Channel	107.7	118.2	116.5	142.4	146.2	110.3	163.6	133.2	133.6	94.2	139.6
59 Cicero Avenue, Calumet Sag Channel	123.1	120.4	128.6	136.4	118.2	124.3	151.8	133.9	139.3	130.7	143.1
43 Route 83, Calumet Sag Channel	117.1	130.0	122.7	128.4	109.3	116.6	144.1	132.4	135.7	126.7	134.4
Des Plaines River System											
90 Route 19, Poplar Creek	71.5	54.6	66.7	46.9	62.8	63.0	60.4	58.0	71.2	54.6	58.9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	60.2	ND	83.5	71.7	87.1	79.9	76.9	60.2
89 Walnut Lane, West Branch DuPage River	81.8	68.1	77.2	68.1	65.4	73.5	69.3	68.7	67.9	61.0	61.0
64 Lake Street, West Branch DuPage River	81.9	71.4	78.0	68.1	68.0	77.8	68.5	70.5	71.3	64.7	65.8
79 Higgins Road, Salt Creek	81.7	79.4	93.3	72.8	76.0	89.5	79.5	74.9	78.4	67.0	73.8
80 Arlington Heights Road, Salt Creek	85.0	82.9	84.9	77.7	79.3	84.4	73.9	83.6	81.3	72.7	79.2
18 Devon Avenue, Salt Creek	84.5	83.2	84.6	76.4	79.5	82.4	74.0	74.5	76.3	77.0	68.9
24 Wolf Road, Salt Creek	87.0	92.2	96.7	84.1	95.0	98.7	89.4	94.5	108.9	87.4	100.9
109 Brookfield Avenue, Salt Creek	85.2	88.4	97.9	82.4	84.5	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	95.8	94.2	86.2	90.1	104.4	87.2	81.2
77 Elmhurst Road, Higgins Creek	47.1	46.7	66.3	44.8	47.8	60.9	47.0	55.4	66.4	48.9	81.9
78 Wille Road, Higgins Creek	91.7	103.6	100.2	90.4	97.1	107.8	94.5	99.3	96.5	88.7	96.3
12 Lake-Cook Road, Buffalo Creek	111.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	97.0	84.7	88.9	91.6	84.9	76.8	81.0	71.1	87.9	80.6	89.1
17 Oakton Steet, Des Plaines River	92.5	112.2	89.9	88.4	86.3	85.8	75.5	73.4	83.4	75.3	88.2
19 Belmont Avenue, Des Plaines River	90.7	88.0	91.2	85.4	85.6	79.5	78.1	78.3	86.3	76.1	88.2
20 Roosevelt Road, Des Plaines River	89.7	100.1	90.6	85.7	87.4	80.5	78.5	75.6	84.3	75.4	91.0
22 Ogden Avenue, Des Plaines River	90.9	85.1	87.9	89.1	87.5	98.9	79.2	77.7	87.7	78.2	84.2
23 Willow Springs Road, Des Plaines River	88.2	89.3	92.8	92.2	90.0	83.8	85.5	82.2	90.6	81.6	97.2
29 Stephen Street, Des Plaines River	91.1	90.5	91.4	95.6	90.6	82.9	83.4	79.6	90.0	87.2	95.1
91 Material Service Road, Des Plaines River	93.7	105.3	94.3	97.5	95.8	81.2	89.1	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	112.4	80.5	98.7	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-68: FATS, OILS, AND GREASES MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.50
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	11.63	5.49	3.13
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	4.37	5.74	1.88
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	3.63	6.06	2.42
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	0.00	ND	ND	ND	ND	ND	ND	ND	6.01	2.00
102 Oakton Street, North Shore Channel	0.42	0.73	2.48	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.27	2.14	2.37	4.47	5.54	4.79	ND	ND	3.97	6.50	1.92
101 Foster Avenue, North Shore Channel	0.67	2.02	1.94	2.73	4.84	3.96	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.42	2.45	1.85	3.38	5.45	4.56	ND	ND	4.27	8.40	5.08
73 Diversey Parkway, North Branch Chicago River	0.83	0.86	2.33	3.38	3.85	8.94	ND	ND	2.45	7.27	3.08
46 Grand Avenue, North Branch Chicago River	0.42	1.85	2.97	2.59	4.72	3.88	ND	ND	2.75	9.51	4.25
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	2.00	2.91	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	0.00	0.68	1.93	3.56	5.70	4.16	ND	ND	4.85	3.65	2.17
108 Loomis Street, South Branch Chicago River	0.00	0.80	1.64	2.87	4.68	4.79	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.00	0.55	2.77	2.96	4.41	4.03	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.00	0.73	3.03	3.16	ND	ND	ND	ND	5.25	3.87	2.67
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	4.37	3.89	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.00	1.24	1.59	2.89	5.57	4.09	ND	ND	2.55	7.41	3.42
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	0.65	2.03	2.73	5.16	4.09	ND	ND	2.65	6.26	1.92
42 Route 83, Chicago Sanitary & Ship Canal	0.00	0.93	2.64	2.06	5.31	5.79	ND	ND	3.00	6.58	3.83
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	1.18	4.29	2.74	4.10	3.37	ND	ND	1.85	8.13	2.00
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	0.37	1.52	1.95	3.85	4.76	3.92	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	3.00	4.70	3.56
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	4.63	7.42	2.25
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	2.33	5.42	3.80
86 Burnham Avenue, Grand Calumet River	1.00	1.77	1.46	6.40	5.76	3.17	ND	ND	3.20	11.05	8.91
56 Indiana Avenue, Little Calumet River	1.18	0.00	1.41	3.66	4.87	3.39	ND	ND	3.97	4.98	3.78
76 Halsted Street, Little Calumet River	1.18	0.43	1.28	2.91	4.39	4.54	ND	ND	3.80	7.47	1.50
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	3.60	6.83	1.67
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	12.80	8.18	2.73
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	3.00	5.43	4.11
58 Ashland Avenue, Calumet Sag Channel	0.73	0.58	1.98	3.36	5.33	4.20	ND	ND	ND	7.50	2.91
59 Cicero Avenue, Calumet Sag Channel	0.55	0.78	1.78	2.58	4.45	3.92	ND	ND	5.07	4.83	5.73
43 Route 83, Calumet Sag Channel	0.73	0.79	2.29	3.41	4.38	4.33	ND	ND	5.53	4.58	5.00
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	2.55	7.27	7.91
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	3.50	8.50	4.55
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	5.35	4.60	6.58
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	5.30	7.49	7.55
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	2.50	7.07	6.10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	14.20	6.21	8.42
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	9.20	7.16	9.18
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	5.55	5.30	5.58
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	5.45	6.70	5.92
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	3.35	4.25	10.58
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	4.05	4.67	9.83
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	4.15	6.26	7.25
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	3.70	6.23	6.67
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	5.45	4.75	6.50
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	6.40	4.65	5.58
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	5.45	5.20	6.54
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	4.80	6.09	5.18
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	3.00	4.56	6.67
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-69: TOTAL PHOSPHORUS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.545	2.200	ND	ND	ND	2.365
106 Dundee Road, West Fork North Branch Chicago River	0.964	1.508	2.120	1.620	0.963	1.102	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.572	0.834	0.550	0.614	0.752	0.663	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.158	0.210	0.145	0.112	0.155	0.143	0.185	0.245	0.183	0.198	0.186
104 Glenview Road, North Branch Chicago River	0.936	1.413	1.014	1.033	1.256	0.844	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.599	0.863	0.237	0.331	0.187	0.150	0.224	0.196	0.152	0.219	0.191
105 Frontage Road, Skokie River	1.174	1.538	1.223	1.708	1.477	0.932	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.840	1.199	0.925	1.269	1.153	0.624	1.147	1.208	0.777	1.237	1.093
96 Albany Avenue, North Branch Chicago River	0.760	1.155	0.795	1.002	1.037	0.718	1.312	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.056	0.016	0.088	0.213	0.101	0.058	0.183	0.215	0.129	0.067	0.392
102 Oakton Street, North Shore Channel	0.632	0.444	0.489	0.548	0.655	0.221	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.033	1.241	1.170	1.377	1.057	1.259	1.214	1.351	1.185	1.189	1.132
101 Foster Avenue, North Shore Channel	1.384	1.248	1.328	1.287	1.148	1.406	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.191	1.130	1.227	1.143	1.043	1.198	1.301	1.388	1.086	1.033	1.039
73 Diversey Parkway, North Branch Chicago River	0.986	0.870	1.065	1.055	0.905	0.889	1.102	1.116	0.843	0.943	0.814
46 Grand Avenue, North Branch Chicago River	1.004	1.121	0.923	0.982	0.953	0.800	1.130	1.120	0.863	0.870	0.938
74 Lake Shore Drive, Chicago River	0.125	0.158	0.228	0.226	0.191	0.291	0.373	0.206	0.202	0.099	0.120
100 Wells Street, Chicago River	0.309	0.355	0.443	0.639	0.429	0.387	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.661	0.830	0.908	1.089	0.756	0.611	1.130	0.839	0.605	0.465	0.393
108 Loomis Street, South Branch Chicago River	0.723	0.722	0.860	0.775	0.732	0.573	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.590	0.767	0.804	0.857	0.719	0.610	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.702	0.755	0.843	0.884	ND	ND	1.046	0.727	0.528	0.570	0.406
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.738	0.609	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.661	0.746	0.803	0.867	0.723	0.671	0.965	0.690	0.550	0.573	0.458
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.825	0.988	0.953	1.100	0.984	0.990	1.120	1.044	0.853	0.888	0.757
42 Route 83, Chicago Sanitary & Ship Canal	0.602	0.725	0.978	0.836	0.918	0.760	0.755	0.643	0.661	0.678	0.548
48 Stephen Street, Chicago Sanitary & Ship Canal	0.901	1.168	1.103	1.083	1.180	1.096	1.355	1.098	0.859	1.063	0.873
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	1.485	1.545	1.211	1.236	1.165
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.935	1.166	1.014	1.138	1.197	1.032	1.414	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.044	0.025	0.060	0.032	0.060	0.081	0.131	0.145	0.081	0.088	0.155
50 Burnham Avenue, Wolf Lake	0.045	0.023	0.053	0.029	0.035	0.070	0.075	0.234	0.056	0.095	0.094
55 130th Street, Calumet River	0.038	0.025	0.049	0.035	0.039	0.127	0.088	0.197	0.151	0.094	0.092
86 Burnham Avenue, Grand Calumet River	0.699	0.878	0.584	0.607	0.613	0.666	0.537	0.857	0.704	0.465	1.038
56 Indiana Avenue, Little Calumet River	0.359	0.372	0.538	0.504	0.495	0.554	0.373	0.324	0.214	0.152	0.143
76 Halsted Street, Little Calumet River	1.835	2.083	1.638	2.126	2.038	1.386	3.193	2.595	1.885	1.758	1.243
52 Wentworth Avenue, Little Calumet River	0.645	0.609	0.543	0.561	0.595	0.495	0.752	1.168	0.815	0.553	0.528
54 Joe Orr Road, Thorn Creek	2.038	2.113	2.054	1.650	5.909	5.645	5.208	3.000	8.043	8.065	6.090
97 170th Street, Thorn Creek	1.170	1.574	1.502	2.101	2.607	2.296	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.764	1.061	0.812	1.223	1.481	1.537	2.170	1.522	1.619	1.992	1.736
58 Ashland Avenue, Calumet Sag Channel	1.755	2.077	1.562	1.898	2.070	1.442	3.038	2.190	1.948	1.445	1.470
59 Cicero Avenue, Calumet Sag Channel	1.802	2.214	1.646	2.048	2.129	1.511	3.119	2.396	2.118	1.930	1.623
43 Route 83, Calumet Sag Channel	1.318	2.266	1.483	1.686	1.814	1.619	2.642	2.453	1.832	2.012	1.631
Des Plaines River System											
90 Route 19, Poplar Creek	0.116	0.087	0.075	0.108	0.066	0.060	0.181	0.430	0.101	0.424	0.165
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.140	ND	0.225	0.184	0.952	0.770	0.547	0.535
89 Walnut Lane, West Branch DuPage River	2.270	2.670	2.745	2.440	2.603	2.428	2.109	2.742	2.903	2.453	2.163
64 Lake Street, West Branch DuPage River	1.911	2.432	2.400	2.338	2.245	2.030	1.649	2.205	2.385	2.007	1.811
79 Higgins Road, Salt Creek	0.149	0.108	0.097	0.106	0.109	0.106	0.249	0.128	0.176	0.169	0.148
80 Arlington Heights Road, Salt Creek	0.791	2.022	1.850	1.980	1.992	1.687	1.688	2.224	1.974	1.575	1.583
18 Devon Avenue, Salt Creek	1.882	1.981	1.899	2.007	1.955	1.810	1.710	2.231	1.855	1.410	1.752
24 Wolf Road, Salt Creek	1.471	1.896	1.595	1.584	1.773	1.227	1.407	1.745	1.497	1.441	1.513
109 Brookfield Avenue, Salt Creek	1.355	1.603	1.317	1.328	1.943	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	1.043	1.073	1.239	1.595	1.517	1.469	1.198
77 Elmhurst Road, Higgins Creek	0.123	0.098	0.108	0.290	0.117	0.112	0.184	0.221	0.111	0.115	0.152
78 Wille Road, Higgins Creek	0.663	1.577	0.662	0.478	0.864	0.508	0.578	0.671	1.058	0.988	0.525
12 Lake-Cook Road, Buffalo Creek	0.122	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.075	1.498	0.985	1.333	1.268	0.826	0.984	1.261	0.916	0.736	0.700
17 Oakton Steet, Des Plaines River	0.873	1.256	0.889	0.958	1.033	0.691	0.705	0.971	0.764	0.615	0.644
19 Belmont Avenue, Des Plaines River	0.816	1.107	0.688	0.852	0.883	0.590	0.914	0.780	0.684	0.630	0.525
20 Roosevelt Road, Des Plaines River	0.700	1.069	0.631	0.891	0.875	0.546	0.583	0.701	0.660	0.667	0.598
22 Ogden Avenue, Des Plaines River	0.923	1.224	0.811	1.272	1.095	0.658	0.732	0.963	0.849	0.885	0.702
23 Willow Springs Road, Des Plaines River	0.882	1.173	0.796	0.919	1.060	0.618	0.762	0.887	0.797	0.816	0.718
29 Stephen Street, Des Plaines River	0.930	1.201	0.834	1.077	0.998	0.672	0.742	0.940	0.788	0.862	0.763
91 Material Service Road, Des Plaines River	0.915	1.263	0.778	1.104	0.969	0.679	0.914	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.184	0.325	0.205	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-70: SOLUBLE PHOSPHORUS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.340	1.610	ND	ND	ND	2.010
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	0.910	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	0.448	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	0.028	0.082	0.109	0.116	0.127	0.163
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	0.530	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	0.026	0.111	0.108	0.095	0.158	0.118
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	0.633	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	0.418	0.889	0.920	0.705	0.994	0.857
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0.525	1.103	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	0.053	0.044	0.098	0.103	0.038	0.271
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	0.928	0.989	1.066	1.058	0.955	0.872
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	1.168	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0.830	0.904	1.160	0.977	0.888	0.801
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	0.707	0.814	0.917	0.743	0.761	0.606
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	0.682	0.865	0.853	0.873	0.707	0.658
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	0.390	0.270	0.157	0.150	0.057	0.089
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	0.500	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.594	0.730	0.646	0.501	0.345	0.273
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.555	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	0.490	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.703	0.492	0.423	0.426	0.289	0.289
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.537	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.646	0.672	0.459	0.378	0.402	0.320
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.618	0.834	0.754	0.737	0.636	0.528
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.646	0.571	0.478	0.502	0.512	0.418
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.970	1.071	0.798	0.717	0.888	0.647
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.846	1.156	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	0.046	0.053	0.060	0.041	0.059	0.156
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	0.032	0.040	0.064	0.041	0.063	0.075
55 130th Street, Calumet River	ND	ND	ND	ND	ND	0.013	0.045	0.080	0.062	0.058	0.093
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	0.155	0.121	0.191	0.329	0.222	0.258
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	0.090	0.277	0.110	0.161	0.076	0.110
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	1.372	2.923	2.684	1.533	1.276	1.033
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	0.240	0.384	0.398	0.296	0.313	0.312
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	5.608	4.875	2.556	7.365	6.853	5.017
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	1.620	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	0.915	1.882	1.229	1.275	1.697	1.467
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	1.300	2.720	2.077	1.736	1.045	0.906
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	1.312	2.794	2.314	1.888	1.586	1.124
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	1.046	2.306	2.348	1.834	1.738	1.186
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	0.020	0.064	0.070	0.074	0.330	0.117
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	0.137	0.060	0.729	0.684	0.608	0.401
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	1.970	1.910	2.243	2.198	2.120	1.728
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	1.772	1.383	1.712	2.048	1.772	1.461
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	0.000	0.039	0.074	0.109	0.068	0.086
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	1.265	1.488	1.843	1.751	1.227	1.294
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	1.287	1.447	1.868	1.686	1.098	1.440
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	0.987	1.094	1.369	1.240	1.150	1.058
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	0.937	0.945	1.275	1.300	1.187	0.848
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	0.026	0.044	0.071	0.073	0.104	0.078
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	0.265	0.385	0.506	0.823	0.713	0.363
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	0.412	0.716	1.047	0.736	0.575	0.552
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	0.352	0.480	0.741	0.563	0.440	0.458
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	0.315	0.420	0.609	0.503	0.448	0.387
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	0.313	0.416	0.562	0.523	0.462	0.387
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	0.443	0.557	0.769	0.688	0.634	0.459
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	0.443	0.544	0.679	0.629	0.621	0.459
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	0.488	0.575	0.664	0.588	0.641	0.484
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	0.380	0.711	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-71: TOTAL CYANIDE MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.006	0.009	ND	ND	ND	0.007
106 Dundee Road, West Fork North Branch Chicago River	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	0.001	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	0.002	0.002	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.006
104 Glenview Road, North Branch Chicago River	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	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.001
105 Frontage Road, Skokie River	0.000	0.002	0.002	0.002	0.002	0.004	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.002	0.003	0.003	0.008	0.004	0.006	0.005	0.004	0.005	0.004
96 Albany Avenue, North Branch Chicago River	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	0.001	0.001	0.000	0.001	0.002	0.002	0.001	0.001	0.002
102 Oakton Street, North Shore Channel	0.001	0.002	0.002	0.002	0.004	0.002	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.002	0.004	0.003	0.004	0.006	0.006	0.005	0.006	0.007	0.006
101 Foster Avenue, North Shore Channel	0.001	0.003	0.003	0.003	0.004	0.005	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.003	0.003	0.003	0.004	0.005	0.006	0.007	0.006	0.005	0.005
73 Diversey Parkway, North Branch Chicago River	0.001	0.003	0.003	0.003	0.003	0.006	0.012	0.008	0.005	0.008	0.005
46 Grand Avenue, North Branch Chicago River	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	0.001	0.001	0.000	0.001	0.002	0.003	0.001	0.002	0.000	0.001
100 Wells Street, Chicago River	0.000	0.000	0.002	0.002	0.002	0.002	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.002	0.003	0.004	0.004	0.004	0.005	0.005	0.004	0.003	0.002
108 Loomis Street, South Branch Chicago River	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	0.002	0.002	0.003	0.003	0.005	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	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	0.003	0.004	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.004	0.003	0.004
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.003	0.003	0.005	0.006	0.007	0.006	0.007	0.006	0.007
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.004	0.003	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.006
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.004	0.004	0.003	0.006	0.007	0.007	0.007	0.009	0.007	0.008
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.003	0.004	0.003	0.005	0.006	0.007	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.003	0.001
50 Burnham Avenue, Wolf Lake	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	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001
86 Burnham Avenue, Grand Calumet River	0.003	0.005	0.005	0.006	0.006	0.010	0.009	0.008	0.011	0.010	0.009
56 Indiana Avenue, Little Calumet River	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	0.003	0.003	0.003	0.005	0.007	0.010	0.010	0.008	0.006	0.013
52 Wentworth Avenue, Little Calumet River	0.004	0.006	0.016	0.005	0.006	0.009	0.061	0.040	0.027	0.005	0.015
54 Joe Orr Road, Thorn Creek	0.002	0.003	0.004	0.003	0.006	0.005	0.008	0.007	0.008	0.007	0.008
97 170th Street, Thorn Creek	0.000	0.002	0.002	0.002	0.004	0.004	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.003	0.005	0.004	0.005	0.005	0.008	0.009	0.008	0.005	0.007
58 Ashland Avenue, Calumet Sag Channel	0.002	0.003	0.004	0.003	0.005	0.007	0.009	0.009	0.008	0.006	0.010
59 Cicero Avenue, Calumet Sag Channel	0.002	0.003	0.003	0.003	0.005	0.006	0.008	0.008	0.009	0.006	0.009
43 Route 83, Calumet Sag Channel	0.001	0.002	0.003	0.002	0.004	0.006	0.007	0.007	0.009	0.006	0.008
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.002
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.002	ND	0.004	0.002	0.007	0.005	0.004	0.005
89 Walnut Lane, West Branch DuPage River	0.004	0.004	0.006	0.005	0.007	0.010	0.008	0.012	0.011	0.010	0.008
64 Lake Street, West Branch DuPage River	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	0.000	0.001	0.002	0.002	0.002	0.003	0.002	0.004	0.002	0.002	0.003
80 Arlington Heights Road, Salt Creek	0.001	0.003	0.004	0.003	0.005	0.008	0.007	0.010	0.009	0.006	0.007
18 Devon Avenue, Salt Creek	0.001	0.003	0.004	0.003	0.005	0.008	0.006	0.009	0.008	0.006	0.007
24 Wolf Road, Salt Creek	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	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.006	0.005	0.004	0.006	0.006	0.006	0.005
77 Elmhurst Road, Higgins Creek	0.003	0.003	0.004	0.003	0.004	0.003	0.004	0.003	0.003	0.003	0.004
78 Wille Road, Higgins Creek	0.002	0.003	0.004	0.004	0.005	0.007	0.006	0.011	0.008	0.008	0.006
12 Lake-Cook Road, Buffalo Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.002	0.001	0.002	0.003	0.006	0.005	0.010	0.005	0.005	0.005
17 Oakton Steet, Des Plaines River	0.001	0.005	0.002	0.002	0.003	0.005	0.004	0.009	0.005	0.004	0.005
19 Belmont Avenue, Des Plaines River	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	0.001	0.009	0.002	0.002	0.004	0.005	0.004	0.005	0.004	0.005	0.004
22 Ogden Avenue, Des Plaines River	0.001	0.003	0.002	0.003	0.003	0.005	0.003	0.006	0.005	0.005	0.004
23 Willow Springs Road, Des Plaines River	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	0.000	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	0.000	0.001	0.002	0.002	0.004	0.004	0.005	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	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
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.000	0.001	ND	ND	ND	0.001
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.002	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001
104 Glenview Road, North Branch Chicago River	0.001	0.001	0.001	0.001	0.000	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001
105 Frontage Road, Skokie River	0.001	0.001	0.001	0.001	0.000	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.000	0.000	0.001	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.000	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	ND	ND	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	ND	ND	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	0.000	0.001	0.001
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.000	0.002	0.001
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	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.001	0.001	0.001	0.001	0.000	ND	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	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	ND	ND	0.001	0.001	0.001	0.001	0.001
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	0.001	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	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
55 130th Street, Calumet River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
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	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001
76 Halsted Street, Little Calumet River	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.003
52 Wentworth Avenue, Little Calumet River	0.001	0.002	0.004	0.001	0.001	0.001	0.009	0.008	0.004	0.001	0.004
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001
97 170th Street, Thorn Creek	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.002
58 Ashland Avenue, Calumet Sag Channel	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002
43 Route 83, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002
Des Plaines River System											
90 Route 19, Poplar Creek	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.001	ND	0.001	0.001	0.001	0.001	0.001	0.001
89 Walnut Lane, West Branch DuPage River	0.002	0.002	0.002	0.002	0.003	0.002	0.001	0.002	0.001	0.002	0.001
64 Lake Street, West Branch DuPage River	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.001	0.000	0.001	0.001	0.001	0.001	0.000	0.002	0.000	0.001	0.001
80 Arlington Heights Road, Salt Creek	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002
18 Devon Avenue, Salt Creek	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002
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	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.001	0.001	0.001	0.000	0.001	0.001	0.001
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001
78 Wille Road, Higgins Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.002	0.001
12 Lake-Cook Road, Buffalo Creek	0.000	ND	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	0.000	0.004	0.000	0.001	0.001
17 Oakton Steet, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.006	0.000	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001
23 Willow Springs Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001
29 Stephen Street, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	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	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-73: FLUORIDE MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.240	0.710	ND	ND	ND	0.572
106 Dundee Road, West Fork North Branch Chicago River	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	0.370	0.469	0.360	0.394	0.425	0.387	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.296	0.375	0.289	0.334	0.343	0.266	0.310	0.312	0.306	0.430	0.337
104 Glenview Road, North Branch Chicago River	0.457	0.584	0.513	0.460	0.617	0.464	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.379	0.483	0.291	0.364	0.354	0.247	0.315	0.373	0.286	0.391	0.342
105 Frontage Road, Skokie River	0.538	0.614	0.557	0.686	0.703	0.500	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.438	0.539	0.473	0.581	0.605	0.378	0.577	0.604	0.488	0.625	0.525
96 Albany Avenue, North Branch Chicago River	0.436	0.516	0.439	0.528	0.567	0.446	0.642	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.181	0.135	0.136	0.233	0.307	0.138	0.187	0.184	0.158	0.200	0.187
102 Oakton Street, North Shore Channel	0.456	0.346	0.318	0.376	0.512	0.238	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.662	0.675	0.619	0.721	0.749	0.694	0.812	0.781	0.778	0.705	0.760
101 Foster Avenue, North Shore Channel	0.683	0.685	0.652	0.717	0.745	0.722	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.634	0.667	0.617	0.678	0.693	0.623	0.779	0.758	0.748	0.728	0.725
73 Diversey Parkway, North Branch Chicago River	0.615	0.667	0.624	0.688	0.684	0.648	0.765	0.765	0.740	0.634	0.730
46 Grand Avenue, North Branch Chicago River	0.623	0.720	0.601	0.690	0.717	0.665	0.783	0.768	0.697	0.752	0.713
74 Lake Shore Drive, Chicago River	0.196	0.196	0.229	0.250	0.238	0.353	0.358	0.235	0.195	0.260	0.136
100 Wells Street, Chicago River	0.297	0.316	0.322	0.458	0.423	0.363	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.462	0.551	0.550	0.665	0.590	0.537	0.645	0.607	0.475	0.372	0.380
108 Loomis Street, South Branch Chicago River	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	0.461	0.565	0.516	0.578	0.565	0.595	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.468	0.555	0.525	0.592	ND	ND	0.667	0.537	0.468	0.456	0.427
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.532	0.538	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.479	0.531	0.503	0.578	0.578	0.471	0.617	0.513	0.434	0.437	0.448
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.643	0.740	0.686	0.727	0.743	0.633	0.781	0.743	0.705	0.701	0.667
42 Route 83, Chicago Sanitary & Ship Canal	0.696	0.756	0.768	0.825	0.809	0.715	0.806	0.778	0.742	0.726	0.724
48 Stephen Street, Chicago Sanitary & Ship Canal	0.648	0.701	0.683	0.800	0.809	0.752	0.799	0.729	0.697	0.742	0.682
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.914	0.865	0.791	0.725	0.744
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.663	0.719	0.634	0.769	0.802	0.751	0.810	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.156	0.128	0.115	0.150	0.188	0.144	0.148	0.135	0.216	0.187	0.136
50 Burnham Avenue, Wolf Lake	0.247	0.275	0.228	0.223	0.213	0.208	0.200	0.237	0.198	0.267	0.177
55 130th Street, Calumet River	0.253	0.219	0.220	0.312	0.248	0.247	0.230	0.301	0.243	0.238	0.199
86 Burnham Avenue, Grand Calumet River	0.809	0.722	0.740	0.812	0.873	0.783	0.823	0.711	0.845	0.940	0.927
56 Indiana Avenue, Little Calumet River	0.324	0.317	0.278	0.375	0.394	0.375	0.382	0.317	0.422	0.439	0.314
76 Halsted Street, Little Calumet River	0.602	0.582	0.536	0.665	0.633	0.730	0.891	0.759	0.760	0.790	0.752
52 Wentworth Avenue, Little Calumet River	2.962	3.129	1.764	2.838	12.390	4.096	4.255	1.980	1.061	1.534	1.146
54 Joe Orr Road, Thorn Creek	0.659	0.474	0.626	0.483	0.746	0.674	0.737	0.596	0.594	0.747	0.692
97 170th Street, Thorn Creek	0.539	0.492	0.543	0.634	1.613	0.520	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.115	1.182	0.887	1.107	2.865	1.627	1.609	0.722	0.730	0.784	0.628
58 Ashland Avenue, Calumet Sag Channel	0.630	0.646	0.563	1.020	1.188	0.828	0.935	0.631	0.750	0.810	0.799
59 Cicero Avenue, Calumet Sag Channel	0.639	0.637	0.575	0.719	0.935	0.935	0.916	0.647	0.737	0.678	0.715
43 Route 83, Calumet Sag Channel	0.562	0.662	0.590	0.659	0.925	0.805	0.827	0.650	0.652	0.726	0.681
Des Plaines River System											
90 Route 19, Poplar Creek	0.208	0.209	0.198	0.206	0.234	0.257	0.171	0.192	0.191	0.237	0.185
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.170	ND	0.295	0.303	0.419	0.453	0.235	0.300
89 Walnut Lane, West Branch DuPage River	0.629	0.643	0.568	0.625	0.744	0.721	0.723	0.719	0.844	0.650	0.572
64 Lake Street, West Branch DuPage River	0.529	0.603	0.572	0.601	0.631	0.540	0.587	0.598	1.061	0.538	0.557
79 Higgins Road, Salt Creek	0.213	0.207	0.189	0.191	0.238	0.253	0.294	0.282	0.328	0.203	0.215
80 Arlington Heights Road, Salt Creek	0.523	0.553	0.546	0.547	0.602	0.573	0.643	0.595	0.851	0.617	0.576
18 Devon Avenue, Salt Creek	0.534	0.498	0.549	0.568	0.578	0.558	0.608	0.628	0.744	0.474	0.576
24 Wolf Road, Salt Creek	0.480	0.585	0.565	0.542	0.634	0.523	0.542	0.600	0.586	0.504	0.583
109 Brookfield Avenue, Salt Creek	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	0.447	0.499	0.486	0.607	0.753	0.531	0.551
77 Elmhurst Road, Higgins Creek	0.220	0.190	0.223	0.222	0.208	0.315	0.317	0.207	0.257	0.184	0.185
78 Wille Road, Higgins Creek	0.959	0.879	0.812	0.858	0.788	0.762	0.746	0.745	0.773	0.750	0.635
12 Lake-Cook Road, Buffalo Creek	0.191	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.425	0.438	0.400	0.525	0.508	0.393	0.402	0.458	0.560	0.450	0.466
17 Oakton Steet, Des Plaines River	0.369	0.468	0.382	0.459	0.459	0.367	0.400	0.472	0.497	0.328	0.397
19 Belmont Avenue, Des Plaines River	0.468	0.468	0.435	0.541	0.502	0.425	0.459	0.506	0.563	0.384	0.435
20 Roosevelt Road, Des Plaines River	0.452	0.449	0.417	0.496	0.516	0.464	0.526	0.455	0.546	0.384	0.451
22 Ogden Avenue, Des Plaines River	0.447	0.440	0.429	0.592	0.541	0.408	0.410	0.514	0.524	0.418	0.446
23 Willow Springs Road, Des Plaines River	0.440	0.530	0.431	0.488	0.557	0.420	0.488	0.488	0.485	0.415	0.478
29 Stephen Street, Des Plaines River	0.453	0.510	0.427	0.536	0.516	0.386	0.486	0.514	0.543	0.429	0.461
91 Material Service Road, Des Plaines River	0.443	0.540	0.419	0.545	0.518	0.377	0.490	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	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
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	7.50	7.00	ND	ND	ND	10.75
106 Dundee Road, West Fork North Branch Chicago River	4.58	6.43	8.88	10.67	9.50	12.60	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.08	6.88	8.40	8.88	9.36	8.40	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.17	9.02	10.10	11.00	11.40	9.73	12.40	13.36	11.67	11.40	15.25
104 Glenview Road, North Branch Chicago River	4.63	5.98	8.33	9.00	8.00	8.10	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.43	7.62	9.30	9.89	10.60	9.36	12.30	11.27	13.83	12.80	13.75
105 Frontage Road, Skokie River	4.43	5.64	7.17	7.75	8.92	7.60	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	4.50	6.97	9.67	8.82	8.50	7.83	10.73	9.82	11.58	12.82	12.83
96 Albany Avenue, North Branch Chicago River	4.51	6.70	8.18	9.30	8.92	8.33	8.33	ND	ND	ND	ND
35 Central Street, North Shore Channel	1.92	2.49	4.22	4.89	5.33	3.33	5.67	6.30	7.00	7.70	9.11
102 Oakton Street, North Shore Channel	3.38	4.42	5.92	7.44	7.27	4.20	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.12	6.41	8.08	8.92	8.83	8.00	10.58	9.92	9.08	14.00	11.92
101 Foster Avenue, North Shore Channel	4.26	6.48	8.25	8.42	8.67	7.60	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.32	6.68	8.08	8.67	9.17	7.75	10.17	9.08	9.25	11.92	13.00
73 Diversey Parkway, North Branch Chicago River	4.08	6.26	7.83	8.92	9.25	7.92	10.33	9.25	9.17	13.25	12.08
46 Grand Avenue, North Branch Chicago River	4.25	6.49	7.92	8.92	8.50	7.83	9.92	8.83	9.00	10.36	12.17
74 Lake Shore Drive, Chicago River	1.75	2.54	4.22	4.30	4.42	4.58	6.58	4.91	5.17	7.91	6.27
100 Wells Street, Chicago River	2.27	3.55	5.17	6.25	5.33	4.71	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	3.29	5.03	7.00	7.91	7.75	6.67	9.08	8.00	7.33	7.82	9.92
108 Loomis Street, South Branch Chicago River	3.35	5.52	6.83	8.00	7.00	6.22	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.27	5.44	7.08	7.83	8.17	8.50	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	3.37	5.52	6.67	7.67	ND	ND	12.78	8.00	7.83	10.67	10.50
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	7.58	6.90	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.75	5.08	7.00	7.33	7.50	6.58	8.58	7.25	10.33	9.45	10.67
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.16	5.92	7.50	8.25	7.92	7.25	9.75	8.45	13.67	11.18	12.17
42 Route 83, Chicago Sanitary & Ship Canal	4.39	6.05	8.17	8.00	8.83	7.67	12.55	8.83	11.83	15.00	12.33
48 Stephen Street, Chicago Sanitary & Ship Canal	4.54	6.32	7.75	7.92	8.67	7.92	10.09	9.36	12.08	11.82	12.25
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.40	6.01	8.00	8.29	8.26	7.59	9.62	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	1.43	1.77	3.40	3.17	3.75	3.25	6.67	4.00	4.39	7.32	6.67
50 Burnham Avenue, Wolf Lake	3.81	5.37	6.42	6.17	5.50	5.18	6.92	6.42	6.67	8.25	8.67
55 130th Street, Calumet River	2.62	3.39	4.55	4.70	4.92	4.73	6.27	5.61	5.61	7.43	6.87
86 Burnham Avenue, Grand Calumet River	7.45	9.27	12.33	12.90	11.36	9.90	14.18	12.18	11.17	18.25	19.45
56 Indiana Avenue, Little Calumet River	3.39	3.77	5.11	5.64	6.42	5.75	7.67	6.68	6.73	11.24	9.27
76 Halsted Street, Little Calumet River	4.40	5.90	7.67	8.45	8.33	7.50	10.92	9.26	9.13	13.52	13.75
52 Wentworth Avenue, Little Calumet River	9.02	8.54	12.22	11.60	10.73	10.18	12.82	11.64	11.75	18.25	15.44
54 Joe Orr Road, Thorn Creek	5.33	8.00	10.43	9.67	10.43	9.08	12.75	10.25	11.17	13.50	16.17
97 170th Street, Thorn Creek	6.26	6.72	9.27	9.60	9.17	9.10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5.67	7.46	9.60	9.60	9.00	9.10	12.73	11.09	10.08	13.42	14.44
58 Ashland Avenue, Calumet Sag Channel	4.65	6.04	8.00	8.50	8.75	8.25	11.58	9.42	8.67	14.47	11.94
59 Cicero Avenue, Calumet Sag Channel	4.77	6.41	8.17	8.64	8.67	8.17	11.50	9.74	10.00	13.38	12.75
43 Route 83, Calumet Sag Channel	4.77	6.54	8.00	8.55	8.25	8.25	17.25	9.37	9.65	12.29	11.88
Des Plaines River System											
90 Route 19, Poplar Creek	5.75	7.28	8.64	9.90	9.22	8.82	12.29	8.70	9.90	10.88	13.73
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	12.00	ND	12.75	13.78	12.67	14.43	14.40	15.18
89 Walnut Lane, West Branch DuPage River	6.83	9.55	12.45	11.91	11.75	11.17	12.75	11.45	14.09	12.36	14.17
64 Lake Street, West Branch DuPage River	6.23	8.65	10.09	10.83	10.25	10.64	12.64	10.73	12.00	12.73	13.36
79 Higgins Road, Salt Creek	5.60	8.42	9.45	9.56	10.00	9.20	11.40	10.50	11.22	12.10	15.60
80 Arlington Heights Road, Salt Creek	5.00	7.13	9.42	9.92	10.50	9.83	10.67	9.82	11.00	12.27	13.58
18 Devon Avenue, Salt Creek	4.90	6.86	9.58	10.08	9.80	9.42	10.58	9.91	10.82	12.55	14.09
24 Wolf Road, Salt Creek	4.68	6.73	8.27	8.67	8.45	8.33	10.80	8.64	10.50	10.09	13.33
109 Brookfield Avenue, Salt Creek	4.65	7.30	10.82	8.70	8.83	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	9.67	8.50	10.10	8.27	10.00	9.90	12.67
77 Elmhurst Road, Higgins Creek	5.13	7.75	11.00	10.40	9.83	10.09	11.80	10.82	11.00	11.00	14.50
78 Wille Road, Higgins Creek	5.59	7.94	10.55	10.25	9.83	9.92	12.08	10.18	12.00	12.82	13.00
12 Lake-Cook Road, Buffalo Creek	5.94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.21	7.48	9.27	9.67	9.25	8.67	11.17	9.73	11.00	12.80	13.33
17 Oakton Steet, Des Plaines River	5.40	7.38	8.73	9.40	9.55	8.83	11.40	9.82	10.82	12.80	13.50
19 Belmont Avenue, Des Plaines River	5.56	7.53	9.27	9.50	9.67	8.92	11.10	9.55	11.18	11.73	14.00
20 Roosevelt Road, Des Plaines River	5.52	7.28	9.36	9.00	9.33	8.75	11.20	9.91	11.36	11.91	14.17
22 Ogden Avenue, Des Plaines River	5.14	7.00	9.27	9.20	9.25	8.50	10.80	9.73	10.82	12.36	14.23
23 Willow Springs Road, Des Plaines River	5.20	7.11	8.82	9.10	9.00	9.67	10.40	9.27	10.55	12.10	11.91
29 Stephen Street, Des Plaines River	5.12	7.08	8.45	9.36	9.00	9.25	9.60	9.09	11.36	13.45	13.58
91 Material Service Road, Des Plaines River	5.09	7.19	8.45	8.92	8.83	8.63	11.46	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	12.02	13.02	15.70	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-75: FECAL COLIFORM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	2683	4000	ND	ND	ND	2228
106 Dundee Road, West Fork North Branch Chicago River	3196	1130	2494	3740	1344	1782	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	893	727	622	839	704	854	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	943	536	760	773	1143	767	1050	1697	1210	2139	1556
104 Glenview Road, North Branch Chicago River	855	649	1326	777	904	1112	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	657	649	1042	546	718	1750	1131	1919	1718	2903	2578
105 Frontage Road, Skokie River	119	160	159	225	357	490	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1026	1121	996	1333	924	1377	1484	1498	878	769	1851
96 Albany Avenue, North Branch Chicago River	860	1119	1029	1498	1508	2517	4238	ND	ND	ND	ND
35 Central Street, North Shore Channel	90	144	330	291	483	356	270	130	241	88	366
102 Oakton Street, North Shore Channel	1181	866	963	1487	1954	580	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	8550	11481	5518	7588	8349	4211	9424	7866	6963	10671	12203
101 Foster Avenue, North Shore Channel	7628	10290	6872	7917	10250	8703	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	6033	9748	5896	5940	7358	5958	7677	7686	7000	7034	7007
73 Diversey Parkway, North Branch Chicago River	4237	5799	3426	4228	5833	3832	5539	4607	3796	4454	4773
46 Grand Avenue, North Branch Chicago River	2054	1853	1583	2402	1919	1840	1715	1522	1636	3288	1711
74 Lake Shore Drive, Chicago River	31	81	46	53	36	66	91	23	62	37	38
100 Wells Street, Chicago River	190	150	65	301	288	159	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	892	921	680	799	800	1622	1090	642	800	838	380
108 Loomis Street, South Branch Chicago River	445	297	179	181	253	325	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	493	156	202	294	548	1530	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	523	223	164	173	ND	ND	160	282	510	543	441
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	180	393	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	469	129	104	153	245	303	154	327	352	245	481
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3906	2668	2637	4314	3609	4126	5043	4970	5427	5730	5361
42 Route 83, Chicago Sanitary & Ship Canal	1303	1011	935	866	460	1580	1046	886	1300	1941	951
48 Stephen Street, Chicago Sanitary & Ship Canal	894	469	386	345	419	812	537	781	849	867	948
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	308	205	186	179	159	291	256	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	11	12	11	12	12	20	18	12	27	13	21
50 Burnham Avenue, Wolf Lake	21	77	53	37	13	32	24	15	13	18	9
55 130th Street, Calumet River	24	37	26	32	19	82	53	23	26	30	47
86 Burnham Avenue, Grand Calumet River	420	2377	1104	1695	488	2056	3323	4100	4325	1849	3383
56 Indiana Avenue, Little Calumet River	89	73	103	75	89	364	124	55	130	78	167
76 Halsted Street, Little Calumet River	2159	2759	2775	2990	2024	2550	4774	3792	3747	2927	7302
52 Wentworth Avenue, Little Calumet River	956	1934	1284	2247	976	2211	3501	1701	2033	1402	1242
54 Joe Orr Road, Thorn Creek	3309	14257	1588	2922	1083	1083	2617	2173	1132	6513	3287
97 170th Street, Thorn Creek	642	2119	1292	1347	637	1197	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	431	3181	4103	2329	576	1623	3088	5189	1724	2531	1683
58 Ashland Avenue, Calumet Sag Channel	1580	2365	2616	2135	1157	3095	3170	2660	2220	4858	4189
59 Cicero Avenue, Calumet Sag Channel	539	857	1041	1105	471	1057	656	673	749	2165	2823
43 Route 83, Calumet Sag Channel	97	57	147	103	93	298	79	87	201	227	654
Des Plaines River System											
90 Route 19, Poplar Creek	264	417	92	387	113	129	948	146	136	355	388
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	1400	ND	1075	2538	386	603	1624	6965
89 Walnut Lane, West Branch DuPage River	857	2026	1121	2181	1600	1273	1943	590	666	1816	7295
64 Lake Street, West Branch DuPage River	949	2144	967	1731	1532	1739	1889	658	1083	1564	6738
79 Higgins Road, Salt Creek	153	499	84	568	82	49	305	45	52	97	307
80 Arlington Heights Road, Salt Creek	417	389	529	678	303	426	623	265	260	725	632
18 Devon Avenue, Salt Creek	946	1014	1214	1668	939	1140	807	687	1154	845	2137
24 Wolf Road, Salt Creek	1303	1034	337	2012	440	507	1109	468	1038	2552	2257
109 Brookfield Avenue, Salt Creek	1618	1480	1499	3461	2056	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	782	599	1459	1320	653	1211	2706
77 Elmhurst Road, Higgins Creek	1915	1932	488	7317	2395	598	636	369	267	498	2404
78 Wille Road, Higgins Creek	275	382	162	559	475	256	536	223	181	489	1019
12 Lake-Cook Road, Buffalo Creek	236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	362	650	240	566	284	269	440	350	392	735	945
17 Oakton Steet, Des Plaines River	616	639	342	1128	345	492	915	765	360	876	1652
19 Belmont Avenue, Des Plaines River	525	523	410	1021	709	440	734	1210	574	1780	4059
20 Roosevelt Road, Des Plaines River	897	950	662	1309	913	422	790	1224	725	1979	3175
22 Ogden Avenue, Des Plaines River	1509	1247	792	1023	900	519	1121	609	538	1722	4029
23 Willow Springs Road, Des Plaines River	1092	480	303	1664	351	232	835	367	423	533	1020
29 Stephen Street, Des Plaines River	617	248	202	568	276	275	528	270	241	921	405
91 Material Service Road, Des Plaines River	327	260	135	564	122	367	295	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	3225	3763	2603	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-76: ESCHERICHIA COLI MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-77: TOTAL CALCIUM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	106.6	80.3	ND	ND	ND	71.0
106 Dundee Road, West Fork North Branch Chicago River	62.0	70.3	85.3	54.9	79.0	79.8	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	73.9	80.8	71.5	70.9	72.8	71.0	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	62.9	65.6	64.3	64.1	71.9	74.2	66.0	69.1	71.3	65.5	73.1
104 Glenview Road, North Branch Chicago River	62.3	61.5	64.4	65.5	69.0	68.8	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	68.5	70.5	74.2	69.8	75.4	79.4	73.1	70.0	82.2	76.6	83.8
105 Frontage Road, Skokie River	62.1	62.0	63.2	59.9	67.7	66.2	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	65.9	70.6	68.7	65.7	70.0	70.6	63.8	64.7	69.0	70.2	71.5
96 Albany Avenue, North Branch Chicago River	67.9	69.4	65.1	64.6	69.2	72.8	56.6	ND	ND	ND	ND
35 Central Street, North Shore Channel	37.5	39.1	38.8	41.0	43.6	37.7	43.4	43.4	45.1	42.6	48.2
102 Oakton Street, North Shore Channel	47.7	47.8	45.8	50.4	51.9	42.6	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	53.3	51.9	57.1	53.4	58.5	61.8	52.9	56.5	58.7	55.3	56.0
101 Foster Avenue, North Shore Channel	54.2	52.9	57.7	54.3	58.8	57.6	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	56.4	55.7	59.8	56.4	60.9	63.9	55.6	57.8	62.8	58.6	59.8
73 Diversey Parkway, North Branch Chicago River	56.2	54.7	60.8	55.4	61.7	65.3	54.9	58.5	62.5	58.2	61.1
46 Grand Avenue, North Branch Chicago River	56.9	57.3	62.1	56.6	60.2	64.3	55.4	56.5	61.9	57.4	58.2
74 Lake Shore Drive, Chicago River	38.4	40.6	44.2	40.9	43.1	46.1	44.2	39.9	41.1	39.3	40.7
100 Wells Street, Chicago River	44.1	44.1	46.0	48.0	49.3	49.4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	51.3	52.0	52.8	55.2	57.3	58.4	53.3	55.7	54.3	48.5	52.1
108 Loomis Street, South Branch Chicago River	53.6	54.3	52.0	52.8	56.8	51.5	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	51.2	51.9	53.3	52.5	56.7	58.0	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	53.8	52.9	53.1	53.4	ND	ND	53.0	56.5	55.0	51.7	52.4
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	57.8	56.1	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	51.2	54.5	55.1	52.1	59.9	55.7	53.3	54.4	52.8	52.6	50.7
41 Harlem Avenue, Chicago Sanitary & Ship Canal	54.8	54.2	54.6	53.8	57.3	59.6	54.3	56.8	56.1	56.0	54.0
42 Route 83, Chicago Sanitary & Ship Canal	56.3	56.4	56.5	56.6	58.7	59.8	53.6	54.9	56.1	56.9	56.6
48 Stephen Street, Chicago Sanitary & Ship Canal	59.0	60.1	59.8	58.7	61.6	63.4	58.5	57.4	57.8	61.5	60.2
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	58.4	59.5	59.9	59.0	62.6	63.8	57.3	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	35.9	36.5	37.1	38.6	41.1	40.2	39.7	39.5	39.0	38.6	40.7
50 Burnham Avenue, Wolf Lake	30.9	37.3	36.6	35.3	35.9	34.5	34.3	32.5	35.8	38.2	37.3
55 130th Street, Calumet River	42.6	43.4	43.2	43.4	47.2	48.8	44.9	43.4	43.9	44.8	45.7
86 Burnham Avenue, Grand Calumet River	98.0	68.3	82.5	86.9	79.6	85.6	73.3	71.0	73.4	75.0	96.7
56 Indiana Avenue, Little Calumet River	49.6	47.8	49.2	52.0	58.6	52.5	49.7	50.4	54.2	55.3	53.9
76 Halsted Street, Little Calumet River	65.8	63.1	62.1	62.2	64.8	71.1	63.6	62.1	63.7	66.8	70.3
52 Wentworth Avenue, Little Calumet River	88.1	74.4	86.4	96.3	94.5	82.8	85.9	75.0	80.5	88.5	97.3
54 Joe Orr Road, Thorn Creek	85.4	76.0	80.8	64.1	85.5	85.5	72.8	75.6	76.9	80.0	84.1
97 170th Street, Thorn Creek	87.7	83.0	84.0	80.6	100.8	88.6	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	86.4	75.4	78.9	84.3	86.5	79.0	84.5	75.2	72.8	81.9	91.1
58 Ashland Avenue, Calumet Sag Channel	68.3	65.3	65.4	66.2	73.7	76.2	67.1	64.0	61.0	68.7	71.3
59 Cicero Avenue, Calumet Sag Channel	71.3	65.4	66.4	64.8	68.2	72.7	68.1	65.2	66.6	68.8	73.1
43 Route 83, Calumet Sag Channel	69.4	64.7	63.1	65.3	69.8	72.5	70.4	66.1	65.7	70.5	72.1
Des Plaines River System											
90 Route 19, Poplar Creek	70.9	65.6	76.3	61.3	77.0	78.0	64.8	74.1	80.4	70.6	78.2
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	59.8	ND	99.6	63.8	76.9	76.9	79.3	65.6
89 Walnut Lane, West Branch DuPage River	65.8	58.5	64.5	55.8	63.1	67.8	59.3	61.9	61.2	60.0	59.9
64 Lake Street, West Branch DuPage River	63.7	59.7	70.4	55.6	65.0	69.3	59.9	60.9	65.3	63.8	63.1
79 Higgins Road, Salt Creek	63.3	65.9	75.8	58.1	67.5	79.3	65.9	60.0	69.6	65.1	70.8
80 Arlington Heights Road, Salt Creek	64.5	66.4	64.1	60.9	68.7	69.2	59.4	58.4	63.1	63.7	67.6
18 Devon Avenue, Salt Creek	65.4	66.4	64.4	58.9	68.2	68.9	58.8	60.1	63.7	67.2	66.1
24 Wolf Road, Salt Creek	64.0	66.1	69.7	59.2	73.7	75.3	67.7	66.9	85.3	69.0	77.9
109 Brookfield Avenue, Salt Creek	63.1	64.2	69.9	58.5	58.5	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	92.5	80.7	65.5	65.1	75.8	68.0	75.3
77 Elmhurst Road, Higgins Creek	54.3	60.1	73.7	48.3	63.2	79.6	62.4	67.5	79.4	66.5	68.8
78 Wille Road, Higgins Creek	69.4	69.2	70.9	63.4	74.4	80.9	67.6	72.3	80.1	73.6	74.3
12 Lake-Cook Road, Buffalo Creek	75.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	73.3	66.8	71.1	65.2	76.8	75.6	67.3	60.5	73.9	70.7	75.5
17 Oakton Steet, Des Plaines River	69.1	66.6	72.2	64.1	75.6	81.1	67.1	63.7	76.4	70.0	77.1
19 Belmont Avenue, Des Plaines River	69.2	67.1	72.7	62.4	74.7	77.9	65.5	62.1	73.4	71.4	75.3
20 Roosevelt Road, Des Plaines River	68.6	65.8	71.0	60.9	74.7	75.4	64.2	61.5	73.6	72.0	76.3
22 Ogden Avenue, Des Plaines River	65.2	63.7	69.9	68.7	73.8	75.4	65.2	63.6	74.1	70.8	76.0
23 Willow Springs Road, Des Plaines River	64.5	66.1	69.7	61.7	70.8	75.5	66.0	62.6	74.2	70.9	76.0
29 Stephen Street, Des Plaines River	69.8	67.4	70.0	65.9	76.6	76.6	67.2	63.1	75.1	75.3	77.3
91 Material Service Road, Des Plaines River	71.0	68.3	71.1	65.6	74.9	73.0	69.3	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	85.6	77.1	86.8	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-78: TOTAL MAGNESIUM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	46.1	32.8	ND	ND	ND	29.0
106 Dundee Road, West Fork North Branch Chicago River	25.7	29.0	35.4	23.6	34.0	37.7	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	29.7	32.2	27.6	28.3	30.5	31.6	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	28.9	33.1	29.2	29.2	33.0	33.9	30.0	31.6	33.3	30.8	33.5
104 Glenview Road, North Branch Chicago River	27.1	27.7	27.3	28.3	29.6	31.3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	30.3	32.4	31.6	29.8	33.5	35.4	32.8	31.4	37.8	35.2	39.3
105 Frontage Road, Skokie River	26.5	27.2	26.9	25.3	29.2	30.5	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	27.9	30.7	28.4	27.0	29.8	31.8	27.9	27.8	31.9	31.7	30.7
96 Albany Avenue, North Branch Chicago River	28.3	29.7	26.8	26.6	29.3	31.4	23.2	ND	ND	ND	ND
35 Central Street, North Shore Channel	12.5	13.3	13.1	14.1	15.2	12.2	15.7	15.4	14.9	14.4	15.9
102 Oakton Street, North Shore Channel	16.7	16.9	15.8	17.5	17.9	14.4	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	19.0	18.2	20.3	19.1	21.2	23.2	19.3	19.9	21.8	20.3	19.8
101 Foster Avenue, North Shore Channel	19.4	18.6	20.8	19.4	21.3	21.3	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.9	20.1	22.2	20.5	22.8	25.1	21.0	21.5	24.9	22.3	22.0
73 Diversey Parkway, North Branch Chicago River	20.7	19.5	22.4	20.0	23.1	25.6	20.8	21.6	24.4	21.7	22.5
46 Grand Avenue, North Branch Chicago River	21.0	20.8	22.3	20.4	22.5	24.8	20.9	20.9	24.2	21.5	21.2
74 Lake Shore Drive, Chicago River	12.9	14.2	15.5	13.7	14.7	16.1	15.7	13.4	14.3	12.9	13.6
100 Wells Street, Chicago River	15.3	15.3	16.3	16.7	17.4	18.0	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	18.6	18.6	19.0	19.9	21.1	22.2	19.4	20.5	20.7	17.4	18.3
108 Loomis Street, South Branch Chicago River	19.6	19.8	19.0	18.8	21.0	19.0	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.4	18.5	19.2	18.7	20.6	21.7	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.6	19.2	19.3	19.1	ND	ND	20.0	21.3	21.4	18.5	18.7
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	21.4	21.2	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.3	19.7	19.9	18.5	21.9	21.3	19.7	20.3	20.0	18.7	17.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.9	19.6	19.9	19.2	21.1	23.1	20.1	21.0	21.8	20.1	19.3
42 Route 83, Chicago Sanitary & Ship Canal	20.4	20.5	20.6	20.2	21.8	23.0	19.8	20.2	21.5	20.4	20.1
48 Stephen Street, Chicago Sanitary & Ship Canal	21.5	22.2	21.9	21.3	22.9	24.6	21.9	21.2	22.4	22.6	21.6
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	21.8	22.0	21.4	23.0	24.9	21.8	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	11.5	12.1	12.3	12.8	13.2	13.1	13.1	13.4	13.4	12.9	13.2
50 Burnham Avenue, Wolf Lake	11.9	13.7	13.4	13.2	14.4	12.6	13.0	13.2	13.3	12.9	13.0
55 130th Street, Calumet River	14.2	15.0	14.8	14.8	15.9	16.8	15.5	15.0	14.9	15.4	14.6
86 Burnham Avenue, Grand Calumet River	48.7	44.4	53.9	65.6	67.1	57.1	57.7	54.5	59.8	51.2	69.4
56 Indiana Avenue, Little Calumet River	17.6	17.8	18.5	19.2	23.8	20.1	22.3	21.6	27.8	26.5	24.0
76 Halsted Street, Little Calumet River	22.6	22.3	22.0	21.5	23.0	26.5	23.4	22.4	25.7	25.6	24.0
52 Wentworth Avenue, Little Calumet River	33.9	29.7	34.3	37.2	38.4	33.6	35.3	40.1	34.0	36.8	38.2
54 Joe Orr Road, Thorn Creek	36.3	33.8	33.9	26.5	38.4	39.3	34.2	36.3	36.0	36.8	38.2
97 170th Street, Thorn Creek	37.7	36.6	36.7	34.6	49.1	41.3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	35.3	31.6	32.5	35.0	37.3	35.1	38.8	33.8	32.2	36.5	40.1
58 Ashland Avenue, Calumet Sag Channel	24.2	23.8	23.8	24.2	27.9	28.3	26.0	24.5	24.3	26.5	25.9
59 Cicero Avenue, Calumet Sag Channel	25.8	23.8	24.7	23.7	25.4	27.7	26.4	24.8	26.8	26.8	26.5
43 Route 83, Calumet Sag Channel	25.4	23.7	23.6	24.1	26.0	27.8	26.9	25.4	26.9	28.0	26.4
Des Plaines River System											
90 Route 19, Poplar Creek	30.6	29.8	34.4	27.5	34.6	36.7	31.3	36.5	37.9	31.8	35.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	22.3	ND	41.5	24.1	51.0	31.1	30.9	23.3
89 Walnut Lane, West Branch DuPage River	24.3	22.0	23.9	20.2	23.9	26.8	23.7	24.7	23.2	23.3	22.2
64 Lake Street, West Branch DuPage River	23.6	22.3	26.2	20.3	24.8	27.8	23.6	24.0	25.2	25.6	23.5
79 Higgins Road, Salt Creek	26.4	29.5	31.4	23.2	31.2	36.7	28.9	27.8	30.6	28.9	30.1
80 Arlington Heights Road, Salt Creek	24.9	25.9	24.4	23.4	27.0	28.6	24.1	23.5	25.1	26.1	26.6
18 Devon Avenue, Salt Creek	25.2	25.7	24.5	22.7	26.6	28.5	23.6	24.1	25.8	27.7	25.8
24 Wolf Road, Salt Creek	25.6	27.3	28.2	23.3	30.1	32.5	28.3	28.7	34.2	28.8	30.9
109 Brookfield Avenue, Salt Creek	25.3	26.7	28.3	23.2	24.0	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	37.4	34.6	27.7	28.0	32.0	29.2	29.9
77 Elmhurst Road, Higgins Creek	18.5	20.1	26.3	15.6	22.5	32.5	22.9	28.5	33.7	26.8	26.8
78 Wille Road, Higgins Creek	25.1	25.6	26.2	22.8	27.9	32.6	25.8	28.2	29.5	28.6	28.7
12 Lake-Cook Road, Buffalo Creek	33.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	32.7	29.6	31.8	28.7	35.1	36.1	31.6	27.7	33.4	32.8	34.0
17 Oakton Steet, Des Plaines River	30.7	29.9	32.5	27.9	33.9	37.7	30.7	28.6	34.8	32.4	33.9
19 Belmont Avenue, Des Plaines River	29.7	29.1	31.1	25.9	33.0	35.8	29.7	27.6	33.1	32.1	32.7
20 Roosevelt Road, Des Plaines River	29.3	28.7	31.4	25.5	33.0	35.0	29.3	27.6	34.2	32.3	33.3
22 Ogden Avenue, Des Plaines River	27.3	27.5	30.1	27.8	31.6	33.8	29.1	28.4	32.7	31.0	32.8
23 Willow Springs Road, Des Plaines River	27.4	28.8	30.3	25.9	31.0	34.4	29.7	28.3	33.4	32.0	33.0
29 Stephen Street, Des Plaines River	29.5	29.2	30.2	27.4	32.7	35.7	30.0	28.0	33.8	33.3	32.9
91 Material Service Road, Des Plaines River	30.3	29.9	30.9	27.5	32.5	32.8	31.0	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	30.4	28.0	31.9	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-79: HARDNESS MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	456	335	ND	ND	ND	297
106 Dundee Road, West Fork North Branch Chicago River	261	295	359	234	337	354	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	307	335	292	294	307	307	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	276	300	281	280	316	325	288	303	315	290	321
104 Glenview Road, North Branch Chicago River	267	268	273	280	294	301	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	296	310	316	297	326	344	318	304	361	336	371
105 Frontage Road, Skokie River	264	267	269	254	289	291	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	279	303	289	275	297	307	274	276	304	306	305
96 Albany Avenue, North Branch Chicago River	286	296	273	271	293	311	237	ND	ND	ND	ND
35 Central Street, North Shore Channel	145	153	151	160	171	144	173	172	174	166	186
102 Oakton Street, North Shore Channel	188	189	179	198	203	166	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	211	205	226	212	233	250	211	223	236	221	222
101 Foster Avenue, North Shore Channel	215	209	229	215	235	231	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	227	222	241	225	246	263	225	233	260	238	240
73 Diversey Parkway, North Branch Chicago River	226	217	244	221	249	268	223	235	257	234	245
46 Grand Avenue, North Branch Chicago River	229	229	247	226	243	263	224	227	254	232	232
74 Lake Shore Drive, Chicago River	149	160	174	159	168	182	175	155	162	151	158
100 Wells Street, Chicago River	173	173	182	189	195	198	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	205	207	210	219	230	237	213	223	221	192	205
108 Loomis Street, South Branch Chicago River	214	217	208	209	228	207	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	204	206	212	208	226	234	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	215	211	212	212	ND	ND	214	229	226	205	208
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	233	228	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	203	217	219	206	240	227	214	219	214	208	200
41 Harlem Avenue, Chicago Sanitary & Ship Canal	219	216	218	213	230	244	218	228	230	223	214
42 Route 83, Chicago Sanitary & Ship Canal	225	225	226	225	236	244	215	220	229	226	224
48 Stephen Street, Chicago Sanitary & Ship Canal	236	241	240	234	248	260	236	230	237	247	239
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	234	238	240	235	251	262	233	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	137	141	143	149	157	154	153	154	153	150	156
50 Burnham Avenue, Wolf Lake	126	149	146	143	149	138	139	136	144	148	147
55 130th Street, Calumet River	165	170	169	169	183	191	176	170	171	175	174
86 Burnham Avenue, Grand Calumet River	445	354	428	487	475	449	421	402	430	398	527
56 Indiana Avenue, Little Calumet River	196	193	199	209	244	214	216	215	250	247	233
76 Halsted Street, Little Calumet River	258	249	246	244	256	287	255	247	265	272	274
52 Wentworth Avenue, Little Calumet River	360	308	357	393	394	345	360	352	341	372	400
54 Joe Orr Road, Thorn Creek	363	329	341	269	371	375	323	338	340	351	367
97 170th Street, Thorn Creek	374	358	361	344	454	391	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	361	318	331	355	370	342	371	327	314	355	393
58 Ashland Avenue, Calumet Sag Channel	270	261	261	265	299	307	275	261	252	281	285
59 Cicero Avenue, Calumet Sag Channel	284	261	268	260	275	296	279	265	276	282	292
43 Route 83, Calumet Sag Channel	278	259	255	262	282	295	286	270	275	291	289
Des Plaines River System											
90 Route 19, Poplar Creek	303	287	332	266	335	346	291	335	357	307	339
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	241	ND	419	258	402	320	325	260
89 Walnut Lane, West Branch DuPage River	265	237	260	222	256	280	246	256	248	246	241
64 Lake Street, West Branch DuPage River	256	241	283	222	264	287	247	251	267	265	254
79 Higgins Road, Salt Creek	267	286	319	241	297	349	284	264	300	282	301
80 Arlington Heights Road, Salt Creek	263	273	261	248	283	290	248	242	261	266	278
18 Devon Avenue, Salt Creek	267	272	262	241	280	289	244	249	265	282	271
24 Wolf Road, Salt Creek	265	277	290	244	308	322	286	285	354	291	322
109 Brookfield Avenue, Salt Creek	262	270	291	242	245	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	385	344	277	278	321	290	311
77 Elmhurst Road, Higgins Creek	212	233	292	185	250	332	250	286	337	276	282
78 Wille Road, Higgins Creek	277	278	285	252	301	336	275	297	321	301	303
12 Lake-Cook Road, Buffalo Creek	324	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	318	289	308	281	336	340	298	265	322	312	329
17 Oakton Steet, Des Plaines River	299	289	314	275	328	358	294	277	334	308	332
19 Belmont Avenue, Des Plaines River	295	287	310	263	322	342	286	269	320	310	323
20 Roosevelt Road, Des Plaines River	292	283	307	257	323	333	281	267	324	313	328
22 Ogden Avenue, Des Plaines River	275	272	298	286	314	327	282	276	320	304	325
23 Willow Springs Road, Des Plaines River	274	284	299	260	305	330	287	273	323	309	326
29 Stephen Street, Des Plaines River	295	288	299	278	326	338	291	273	326	325	329
91 Material Service Road, Des Plaines River	302	293	305	277	321	317	301	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	339	308	348	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-80: GROSS ALPHA RADIOACTIVITY MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (pCi/L)											
	06	05	04	03	02	01	00	99	98	97	96	
Chicago River System												
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	6.01	6.20	6.38	3.79	4.49	4.77	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	5.73	7.14	4.36	4.80	4.41	4.67	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	4.94	5.34	4.74	4.53	3.82	6.05	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	5.40	5.50	4.19	4.47	3.72	4.57	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.04	5.50	4.51	4.34	3.78	4.86	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	4.82	5.03	4.26	3.87	3.79	4.53	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5.01	5.91	4.84	4.92	4.15	4.88	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	5.04	5.43	4.01	4.25	4.39	4.71	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.07	3.30	3.00	3.43	3.40	3.45	4.23	3.40	ND	2.44	3.55	
102 Oakton Street, North Shore Channel	3.56	4.07	3.23	3.67	3.64	4.03	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	3.73	4.27	3.62	3.54	3.72	4.29	4.21	3.49	ND	3.09	3.13	
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	3.09	3.23	3.43	3.14	3.27	4.01	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	3.41	3.61	3.44	3.41	3.45	4.25	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	3.84	4.17	3.87	3.67	3.70	4.32	4.22	3.96	ND	2.90	2.94	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.88	4.27	3.93	3.49	3.66	4.49	4.26	3.64	ND	3.07	3.12	
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	4.36	3.57	ND	3.31	3.47	
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	4.25	3.53	ND	3.06	3.35	
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	4.08	4.53	4.00	3.62	3.83	4.50	4.44	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	3.66	3.03	2.90	3.22	3.00	3.79	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	3.44	3.33	2.94	3.12	2.95	3.44	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	3.49	3.50	3.17	3.50	3.30	3.76	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	3.65	3.56	3.43	3.76	3.57	4.25	4.30	3.51	ND	2.95	3.09	
76 Halsted Street, Little Calumet River	4.08	4.66	3.68	3.99	3.72	4.34	4.39	3.70	ND	3.17	2.43	
52 Wentworth Avenue, Little Calumet River	4.24	4.88	3.80	4.59	4.46	4.43	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	6.25	8.99	6.72	4.00	8.21	5.73	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	5.38	7.46	6.43	6.15	5.67	4.99	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5.09	6.19	4.35	4.73	4.68	4.63	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	4.41	3.62	ND	3.59	3.32	
Des Plaines River System												
90 Route 19, Poplar Creek	5.66	5.19	4.76	3.92	4.37	5.63	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	3.57	ND	5.23	4.21	4.14	ND	4.15	5.07	
89 Walnut Lane, West Branch DuPage River	4.98	4.77	4.32	3.78	4.07	4.53	4.13	3.59	ND	3.87	3.53	
64 Lake Street, West Branch DuPage River	5.10	5.06	4.51	3.69	4.18	4.91	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	5.27	6.27	5.20	4.65	4.23	5.54	4.37	3.64	ND	4.00	4.71	
80 Arlington Heights Road, Salt Creek	5.59	5.71	4.59	4.28	4.00	5.07	4.19	3.53	ND	4.04	3.55	
18 Devon Avenue, Salt Creek	5.51	5.85	4.59	4.28	3.97	5.06	ND	ND	ND	2.79	ND	
24 Wolf Road, Salt Creek	5.00	4.81	4.52	4.32	4.79	4.45	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	5.20	4.76	4.55	4.26	3.38	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	7.16	4.98	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	6.74	7.77	5.90	4.54	6.04	5.82	4.42	3.77	ND	4.37	4.85	
78 Wille Road, Higgins Creek	4.78	4.79	4.19	3.98	4.43	5.44	4.24	3.69	ND	3.42	3.69	
12 Lake-Cook Road, Buffalo Creek	5.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	4.86	5.27	4.08	4.04	4.10	5.26	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	4.97	5.30	4.27	4.08	4.50	5.26	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	5.06	5.46	4.09	4.15	4.56	4.69	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	5.29	5.02	4.43	4.15	4.92	4.80	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	4.95	5.07	4.10	4.25	4.62	4.83	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	5.06	4.93	4.21	4.19	4.17	4.85	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	5.40	4.93	4.19	4.29	4.74	4.86	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	4.84	5.70	4.72	4.19	4.13	5.12	4.54	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	7.04	6.48	5.09	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-81: GROSS BETA RADIOACTIVITY MEAN HISTORY
1996 THROUGH 2006**

Sampling Station (No. Name)	Annual Means (pCi/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	11.59	11.58	16.75	8.90	8.00	11.92	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	9.95	11.05	11.05	10.27	9.99	7.77	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.40	7.15	7.41	7.37	6.64	7.80	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	9.08	11.27	9.48	8.90	12.84	7.59	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	8.19	8.83	7.13	7.35	6.70	6.56	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	9.65	10.79	9.60	9.93	8.46	7.77	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	9.39	11.51	8.93	10.17	9.49	7.41	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	7.91	10.61	9.09	9.53	8.47	7.24	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	4.50	4.28	4.48	4.82	6.79	4.44	6.67	5.97	ND	5.03	7.76
102 Oakton Street, North Shore Channel	6.97	6.88	5.78	6.45	6.70	5.43	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.91	7.88	8.29	7.70	7.94	7.12	11.30	8.46	ND	8.21	7.23
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	4.54	4.29	5.52	4.80	4.87	5.82	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	5.22	5.60	6.57	6.36	5.36	7.03	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.87	7.38	8.91	8.13	6.80	8.01	9.05	7.36	ND	6.07	6.34
41 Harlem Avenue, Chicago Sanitary & Ship Canal	8.29	7.98	8.92	8.38	6.66	8.32	9.33	9.18	ND	6.93	6.57
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	9.04	9.32	ND	7.70	6.64
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	9.65	10.26	ND	7.06	7.22
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	8.21	8.70	9.03	9.22	8.31	7.93	9.11	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	5.39	4.99	4.77	3.99	4.31	4.92	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	6.10	4.94	7.01	4.81	4.77	4.89	ND	ND	ND	ND	ND
55 130th Street, Calumet River	6.50	6.14	6.79	6.10	5.72	6.36	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	7.82	6.63	6.99	7.48	6.80	8.20	7.59	7.07	ND	6.48	6.50
76 Halsted Street, Little Calumet River	8.96	9.11	8.41	9.54	9.00	7.44	10.27	9.25	ND	8.50	9.10
52 Wentworth Avenue, Little Calumet River	10.37	10.90	12.00	12.91	12.46	9.42	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	10.91	14.81	12.20	10.77	12.05	7.95	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	10.72	13.04	11.68	12.14	12.41	8.40	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	10.20	11.25	10.88	10.93	10.76	8.89	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	9.40	8.97	ND	8.74	7.89
Des Plaines River System											
90 Route 19, Poplar Creek	7.25	6.75	5.59	6.76	5.70	5.91	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	5.41	ND	7.02	7.30	8.49	ND	8.53	8.86
89 Walnut Lane, West Branch DuPage River	9.90	10.62	9.17	10.50	10.82	9.50	9.61	10.64	ND	10.63	9.23
64 Lake Street, West Branch DuPage River	10.36	10.94	10.71	10.56	10.72	10.14	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	7.71	8.35	8.15	8.41	8.09	7.05	7.01	6.06	ND	7.21	8.02
80 Arlington Heights Road, Salt Creek	10.09	10.26	9.43	9.54	9.12	9.32	9.75	11.95	ND	8.84	7.79
18 Devon Avenue, Salt Creek	9.35	11.03	9.86	10.54	9.77	8.27	ND	ND	ND	11.00	ND
24 Wolf Road, Salt Creek	11.12	11.39	9.45	10.43	10.71	9.13	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	10.50	10.71	8.96	9.41	10.31	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	10.68	9.41	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	8.79	11.23	8.33	9.76	8.82	7.32	7.37	7.18	ND	6.88	8.69
78 Wille Road, Higgins Creek	12.65	15.45	13.34	13.15	15.24	15.72	16.49	16.83	ND	13.15	9.28
12 Lake-Cook Road, Buffalo Creek	7.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	10.05	11.41	9.53	10.71	9.94	8.21	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	9.12	10.16	9.23	10.61	9.39	7.81	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	10.24	11.57	9.77	10.62	10.73	8.37	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	9.69	10.91	8.99	10.23	10.38	7.89	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	9.32	11.04	9.51	9.44	10.33	7.92	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	9.51	10.68	9.37	9.32	10.28	8.78	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	10.39	10.87	9.16	10.23	10.53	8.36	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	9.65	12.34	9.48	10.75	9.88	8.77	9.21	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	8.04	8.52	8.22	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-82: CHLOROPHYLL *a* MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-83: BENZENE MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-84: ETHYLBENZENE MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-85: TOLUENE MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-86: XYLENE MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-87: TOTAL SILVER MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-88: TOTAL ARSENIC MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-89: TOTAL BARIUM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.089	0.083	ND	ND	ND	0.038
106 Dundee Road, West Fork North Branch Chicago River	0.056	0.051	0.069	0.048	0.054	0.072	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.052	0.055	0.048	0.051	0.051	0.052	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.045	0.042	0.040	0.045	0.045	0.054	0.041	0.039	0.040	0.039	0.041
104 Glenview Road, North Branch Chicago River	0.037	0.032	0.034	0.038	0.035	0.039	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.043	0.041	0.046	0.045	0.047	0.053	0.042	0.040	0.044	0.044	0.046
105 Frontage Road, Skokie River	0.030	0.030	0.033	0.029	0.032	0.036	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.040	0.041	0.040	0.039	0.040	0.047	0.033	0.032	0.034	0.036	0.036
96 Albany Avenue, North Branch Chicago River	0.041	0.040	0.037	0.039	0.043	0.044	0.029	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.022	0.025	0.023	0.024	0.030	0.026	0.023	0.023	0.022	0.024	0.026
102 Oakton Street, North Shore Channel	0.023	0.025	0.023	0.026	0.025	0.027	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.021	0.022	0.023	0.020	0.024	0.027	0.017	0.020	0.021	0.022	0.020
101 Foster Avenue, North Shore Channel	0.021	0.022	0.023	0.021	0.024	0.024	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.025	0.024	0.026	0.024	0.028	0.031	0.021	0.022	0.040	0.023	0.023
73 Diversey Parkway, North Branch Chicago River	0.025	0.024	0.026	0.027	0.029	0.033	0.020	0.048	0.023	0.023	0.023
46 Grand Avenue, North Branch Chicago River	0.026	0.025	0.028	0.024	0.028	0.031	0.021	0.021	0.023	0.025	0.023
74 Lake Shore Drive, Chicago River	0.022	0.023	0.025	0.023	0.025	0.026	0.023	0.020	0.021	0.022	0.022
100 Wells Street, Chicago River	0.023	0.023	0.024	0.023	0.027	0.028	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.025	0.024	0.024	0.023	0.027	0.031	0.022	0.024	0.024	0.023	0.023
108 Loomis Street, South Branch Chicago River	0.026	0.025	0.025	0.024	0.027	0.029	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.025	0.025	0.025	0.023	0.029	0.036	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.027	0.025	0.025	0.025	ND	ND	0.019	0.024	0.025	0.023	0.024
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.029	0.033	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.026	0.025	0.026	0.024	0.029	0.031	0.023	0.023	0.023	0.023	0.023
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.021	0.020	0.020	0.019	0.023	0.026	0.018	0.019	0.020	0.022	0.021
42 Route 83, Chicago Sanitary & Ship Canal	0.020	0.020	0.020	0.021	0.023	0.025	0.017	0.018	0.019	0.024	0.021
48 Stephen Street, Chicago Sanitary & Ship Canal	0.023	0.023	0.023	0.023	0.024	0.027	0.020	0.018	0.020	0.023	0.024
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.027	0.032	0.036	0.039	0.032
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.023	0.023	0.024	0.022	0.026	0.028	0.019	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.022	0.022	0.023	0.024	0.026	0.030	0.022	0.024	0.019	0.022	0.023
50 Burnham Avenue, Wolf Lake	0.028	0.033	0.032	0.028	0.029	0.031	0.024	0.024	0.028	0.028	0.028
55 130th Street, Calumet River	0.031	0.030	0.030	0.031	0.035	0.040	0.028	0.029	0.028	0.028	0.026
86 Burnham Avenue, Grand Calumet River	0.029	0.043	0.027	0.031	0.029	0.030	0.025	0.026	0.027	0.028	0.116
56 Indiana Avenue, Little Calumet River	0.031	0.030	0.030	0.030	0.037	0.035	0.029	0.032	0.028	0.032	0.032
76 Halsted Street, Little Calumet River	0.022	0.022	0.022	0.020	0.024	0.030	0.015	0.020	0.018	0.023	0.023
52 Wentworth Avenue, Little Calumet River	0.043	0.037	0.042	0.043	0.045	0.047	0.040	0.037	0.045	0.045	0.051
54 Joe Orr Road, Thorn Creek	0.031	0.042	0.034	0.030	0.030	0.032	0.019	0.023	0.025	0.025	0.023
97 170th Street, Thorn Creek	0.041	0.042	0.042	0.038	0.041	0.043	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.042	0.040	0.043	0.039	0.040	0.044	0.034	0.033	0.036	0.037	0.038
58 Ashland Avenue, Calumet Sag Channel	0.024	0.026	0.025	0.029	0.029	0.030	0.022	0.023	0.021	0.032	0.027
59 Cicero Avenue, Calumet Sag Channel	0.028	0.024	0.027	0.026	0.028	0.035	0.021	0.023	0.024	0.027	0.028
43 Route 83, Calumet Sag Channel	0.028	0.025	0.026	0.028	0.030	0.034	0.024	0.024	0.026	0.025	0.031
Des Plaines River System											
90 Route 19, Poplar Creek	0.095	0.112	0.102	0.079	0.071	0.067	0.053	0.102	0.063	0.071	0.085
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.047	ND	0.072	0.044	0.045	0.049	0.056	0.055
89 Walnut Lane, West Branch DuPage River	0.030	0.026	0.028	0.028	0.031	0.035	0.025	0.025	0.023	0.022	0.031
64 Lake Street, West Branch DuPage River	0.035	0.033	0.035	0.033	0.037	0.042	0.035	0.032	0.032	0.035	0.038
79 Higgins Road, Salt Creek	0.044	0.053	0.052	0.045	0.048	0.061	0.040	0.042	0.044	0.045	0.050
80 Arlington Heights Road, Salt Creek	0.033	0.033	0.030	0.031	0.030	0.035	0.026	0.023	0.023	0.029	0.030
18 Devon Avenue, Salt Creek	0.033	0.031	0.029	0.030	0.031	0.035	0.028	0.026	0.023	0.035	0.030
24 Wolf Road, Salt Creek	0.035	0.033	0.034	0.031	0.036	0.042	0.034	0.030	0.035	0.034	0.037
109 Brookfield Avenue, Salt Creek	0.036	0.033	0.036	0.034	0.028	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.046	0.048	0.033	0.030	0.033	0.034	0.035
77 Elmhurst Road, Higgins Creek	0.056	0.056	0.067	0.050	0.060	0.072	0.047	0.054	0.060	0.054	0.057
78 Wille Road, Higgins Creek	0.024	0.020	0.024	0.022	0.030	0.032	0.023	0.022	0.028	0.027	0.036
12 Lake-Cook Road, Buffalo Creek	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.045	0.038	0.038	0.038	0.044	0.044	0.036	0.060	0.037	0.036	0.037
17 Oakton Steet, Des Plaines River	0.046	0.040	0.040	0.041	0.044	0.047	0.039	0.035	0.040	0.038	0.041
19 Belmont Avenue, Des Plaines River	0.043	0.037	0.038	0.037	0.040	0.045	0.034	0.032	0.037	0.038	0.039
20 Roosevelt Road, Des Plaines River	0.044	0.037	0.038	0.035	0.042	0.043	0.034	0.033	0.038	0.038	0.038
22 Ogden Avenue, Des Plaines River	0.042	0.036	0.038	0.036	0.040	0.045	0.034	0.032	0.035	0.039	0.036
23 Willow Springs Road, Des Plaines River	0.039	0.036	0.037	0.034	0.038	0.045	0.031	0.060	0.036	0.038	0.037
29 Stephen Street, Des Plaines River	0.041	0.035	0.037	0.036	0.040	0.045	0.034	0.059	0.038	0.038	0.038
91 Material Service Road, Des Plaines River	0.041	0.035	0.038	0.036	0.039	0.044	0.032	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.054	0.053	0.056	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-90: TOTAL BORON MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.171	0.208	ND	ND	ND	0.328
106 Dundee Road, West Fork North Branch Chicago River	0.129	0.178	0.203	0.147	0.139	0.186	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.145	0.191	0.139	0.137	0.159	0.151	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.118	0.176	0.170	0.113	0.122	0.104	0.134	0.132	0.113	0.133	0.164
104 Glenview Road, North Branch Chicago River	0.142	0.182	0.155	0.138	0.167	0.156	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.135	0.161	0.129	0.137	0.120	0.122	0.161	0.125	0.155	0.188	0.199
105 Frontage Road, Skokie River	0.161	0.188	0.172	0.193	0.186	0.166	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.143	0.192	0.153	0.176	0.172	0.132	0.194	0.178	0.167	0.227	0.234
96 Albany Avenue, North Branch Chicago River	0.151	0.185	0.150	0.164	0.169	0.157	0.243	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.037	0.039	0.037	0.050	0.052	0.030	0.050	0.015	0.039	0.064	0.117
102 Oakton Street, North Shore Channel	0.117	0.093	0.076	0.091	0.118	0.058	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.193	0.180	0.172	0.190	0.185	0.211	0.233	0.208	0.215	0.274	0.233
101 Foster Avenue, North Shore Channel	0.192	0.177	0.174	0.176	0.176	0.201	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.173	0.168	0.161	0.166	0.160	0.183	0.201	0.188	0.180	0.243	0.233
73 Diversey Parkway, North Branch Chicago River	0.166	0.160	0.162	0.175	0.161	0.173	0.205	0.193	0.175	0.227	0.233
46 Grand Avenue, North Branch Chicago River	0.163	0.172	0.160	0.162	0.161	0.178	0.214	0.189	0.181	0.223	0.230
74 Lake Shore Drive, Chicago River	0.067	0.061	0.073	0.057	0.055	0.082	0.091	0.025	0.047	0.055	0.092
100 Wells Street, Chicago River	0.081	0.082	0.092	0.103	0.080	0.091	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.128	0.132	0.144	0.149	0.140	0.135	0.178	0.156	0.120	0.155	0.172
108 Loomis Street, South Branch Chicago River	0.131	0.135	0.143	0.144	0.136	0.128	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.117	0.134	0.139	0.143	0.135	0.148	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.130	0.133	0.141	0.145	ND	ND	0.162	0.141	0.119	0.193	0.168
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.136	0.129	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.124	0.133	0.144	0.145	0.145	0.143	0.174	0.133	0.113	0.188	0.169
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.183	0.176	0.207	0.192	0.184	0.190	0.200	0.175	0.173	0.243	0.210
42 Route 83, Chicago Sanitary & Ship Canal	0.223	0.219	0.261	0.226	0.232	0.206	0.219	0.183	0.188	0.262	0.232
48 Stephen Street, Chicago Sanitary & Ship Canal	0.208	0.216	0.221	0.217	0.227	0.219	0.247	0.197	0.185	0.280	0.229
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	0.218	0.223	0.206	0.203	0.206	0.209	0.224	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.049	0.042	0.046	0.035	0.039	0.045	0.033	0.002	0.053	0.092	0.100
50 Burnham Avenue, Wolf Lake	0.115	0.147	0.144	0.105	0.104	0.100	0.069	0.035	0.096	0.153	0.169
55 130th Street, Calumet River	0.107	0.113	0.111	0.084	0.120	0.146	0.084	0.061	0.091	0.150	0.140
86 Burnham Avenue, Grand Calumet River	0.601	0.287	0.429	0.430	0.383	0.370	0.371	0.386	0.338	0.388	0.506
56 Indiana Avenue, Little Calumet River	0.137	0.116	0.127	0.128	0.161	0.152	0.159	0.123	0.168	0.214	0.189
76 Halsted Street, Little Calumet River	0.224	0.205	0.189	0.187	0.201	0.228	0.286	0.244	0.253	0.293	0.340
52 Wentworth Avenue, Little Calumet River	0.240	0.224	0.242	0.267	0.321	0.209	0.276	0.235	0.238	0.345	0.296
54 Joe Orr Road, Thorn Creek	0.404	0.269	0.320	0.252	0.353	0.351	0.410	0.353	0.357	0.428	0.413
97 170th Street, Thorn Creek	0.297	0.251	0.269	0.279	0.332	0.254	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.258	0.232	0.223	0.265	0.270	0.212	0.321	0.267	0.259	0.421	0.329
58 Ashland Avenue, Calumet Sag Channel	0.230	0.206	0.194	0.210	0.226	0.232	0.280	0.227	0.260	0.332	0.261
59 Cicero Avenue, Calumet Sag Channel	0.224	0.199	0.193	0.192	0.207	0.228	0.277	0.230	0.257	0.298	0.279
43 Route 83, Calumet Sag Channel	0.204	0.207	0.187	0.182	0.194	0.215	0.250	0.235	0.243	0.298	0.283
Des Plaines River System											
90 Route 19, Poplar Creek	0.061	0.071	0.056	0.056	0.056	0.063	0.059	0.012	0.058	0.143	0.158
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.040	ND	0.083	0.069	0.128	0.180	0.223	0.197
89 Walnut Lane, West Branch DuPage River	0.247	0.278	0.274	0.264	0.285	0.296	0.285	0.311	0.328	0.393	0.339
64 Lake Street, West Branch DuPage River	0.190	0.238	0.225	0.228	0.224	0.243	0.203	0.238	0.266	0.309	0.296
79 Higgins Road, Salt Creek	0.091	0.098	0.089	0.073	0.100	0.099	0.086	0.071	0.092	0.169	0.186
80 Arlington Heights Road, Salt Creek	0.191	0.205	0.197	0.191	0.207	0.223	0.207	0.225	0.233	0.278	0.279
18 Devon Avenue, Salt Creek	0.196	0.207	0.189	0.187	0.192	0.211	0.195	0.213	0.218	0.257	0.268
24 Wolf Road, Salt Creek	0.188	0.233	0.193	0.177	0.227	0.184	0.182	0.203	0.195	0.273	0.277
109 Brookfield Avenue, Salt Creek	0.210	0.262	0.195	0.198	0.247	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.179	0.196	0.176	0.200	0.233	0.306	0.267
77 Elmhurst Road, Higgins Creek	0.083	0.081	0.084	0.063	0.074	0.116	0.083	0.124	0.148	0.202	0.237
78 Wille Road, Higgins Creek	0.289	0.366	0.303	0.282	0.335	0.377	0.367	0.376	0.373	0.436	0.404
12 Lake-Cook Road, Buffalo Creek	0.107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.181	0.221	0.191	0.192	0.189	0.167	0.166	0.176	0.176	0.250	0.297
17 Oakton Steet, Des Plaines River	0.155	0.215	0.167	0.186	0.191	0.158	0.146	0.166	0.171	0.235	0.296
19 Belmont Avenue, Des Plaines River	0.170	0.236	0.181	0.209	0.207	0.178	0.176	0.215	0.208	0.271	0.238
20 Roosevelt Road, Des Plaines River	0.172	0.237	0.182	0.207	0.218	0.169	0.181	0.205	0.213	0.285	0.313
22 Ogden Avenue, Des Plaines River	0.183	0.236	0.194	0.211	0.214	0.169	0.178	0.201	0.213	0.321	0.308
23 Willow Springs Road, Des Plaines River	0.185	0.243	0.182	0.176	0.219	0.172	0.185	0.196	0.208	0.317	0.279
29 Stephen Street, Des Plaines River	0.192	0.243	0.177	0.195	0.204	0.172	0.182	0.185	0.201	0.324	0.274
91 Material Service Road, Des Plaines River	0.198	0.249	0.179	0.217	0.213	0.165	0.215	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.079	0.078	0.125	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-91: TOTAL CADMIUM MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-92: TOTAL COPPER MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.030	0.035	ND	ND	ND	0.020
106 Dundee Road, West Fork North Branch Chicago River	0.012	0.028	0.025	0.020	0.023	0.027	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.004	0.017	0.013	0.015	0.024	0.021	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.021	0.012	0.013	0.022	0.022	0.011	0.003	0.007	0.007	0.003
104 Glenview Road, North Branch Chicago River	0.005	0.016	0.013	0.013	0.020	0.018	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.006	0.017	0.012	0.011	0.019	0.020	0.011	0.004	0.007	0.005	0.006
105 Frontage Road, Skokie River	0.003	0.018	0.014	0.018	0.020	0.017	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.004	0.018	0.013	0.015	0.021	0.020	0.011	0.003	0.008	0.008	0.005
96 Albany Avenue, North Branch Chicago River	0.004	0.017	0.016	0.016	0.022	0.021	0.024	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.014	0.011	0.012	0.023	0.016	0.007	0.001	0.004	0.004	0.002
102 Oakton Street, North Shore Channel	0.003	0.013	0.012	0.014	0.021	0.016	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.004	0.017	0.012	0.015	0.024	0.018	0.012	0.003	0.004	0.004	0.005
101 Foster Avenue, North Shore Channel	0.003	0.016	0.014	0.013	0.023	0.014	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.003	0.016	0.013	0.015	0.023	0.019	0.014	0.002	0.005	0.003	0.005
73 Diversey Parkway, North Branch Chicago River	0.003	0.017	0.011	0.015	0.022	0.021	0.015	0.003	0.008	0.006	0.007
46 Grand Avenue, North Branch Chicago River	0.004	0.017	0.015	0.017	0.022	0.017	0.012	0.006	0.006	0.006	0.006
74 Lake Shore Drive, Chicago River	0.002	0.015	0.013	0.014	0.013	0.015	0.011	0.002	0.005	0.005	0.002
100 Wells Street, Chicago River	0.004	0.016	0.015	0.015	0.019	0.015	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.004	0.017	0.015	0.015	0.020	0.016	0.010	0.001	0.005	0.004	0.006
108 Loomis Street, South Branch Chicago River	0.005	0.018	0.018	0.016	0.020	0.017	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.015	0.014	0.016	0.017	0.015	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.006	0.018	0.015	0.017	ND	ND	0.008	0.002	0.005	0.006	0.004
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.021	0.027	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.019	0.015	0.015	0.020	0.020	0.012	0.002	0.004	0.007	0.009
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.013	0.012	0.013	0.016	0.014	0.012	0.001	0.004	0.003	0.008
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.015	0.016	0.014	0.017	0.017	0.009	0.001	0.004	0.004	0.008
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.015	0.020	0.015	0.017	0.015	0.011	0.001	0.003	0.003	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.027	0.049	0.110	0.051	0.032
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.016	0.013	0.014	0.020	0.016	0.009	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.004	0.013	0.010	0.011	0.015	0.015	0.009	0.007	0.008	0.005	0.003
50 Burnham Avenue, Wolf Lake	0.002	0.014	0.011	0.013	0.013	0.018	0.007	0.001	0.005	0.004	0.010
55 130th Street, Calumet River	0.006	0.013	0.013	0.012	0.015	0.017	0.008	0.001	0.006	0.005	0.002
86 Burnham Avenue, Grand Calumet River	0.006	0.038	0.016	0.017	0.020	0.022	0.023	0.013	0.018	0.013	0.020
56 Indiana Avenue, Little Calumet River	0.004	0.015	0.013	0.013	0.020	0.014	0.010	0.003	0.007	0.005	0.005
76 Halsted Street, Little Calumet River	0.002	0.015	0.010	0.010	0.016	0.017	0.010	0.000	0.004	0.003	0.010
52 Wentworth Avenue, Little Calumet River	0.003	0.015	0.015	0.012	0.019	0.019	0.016	0.004	0.009	0.009	0.008
54 Joe Orr Road, Thorn Creek	0.001	0.020	0.014	0.008	0.013	0.017	0.010	0.001	0.006	0.005	0.004
97 170th Street, Thorn Creek	0.002	0.017	0.016	0.014	0.016	0.018	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.019	0.014	0.010	0.017	0.021	0.013	0.003	0.008	0.008	0.002
58 Ashland Avenue, Calumet Sag Channel	0.002	0.020	0.011	0.011	0.017	0.017	0.011	0.001	0.006	0.005	0.003
59 Cicero Avenue, Calumet Sag Channel	0.002	0.014	0.011	0.011	0.016	0.018	0.008	0.002	0.008	0.005	0.004
43 Route 83, Calumet Sag Channel	0.002	0.014	0.012	0.013	0.018	0.019	0.009	0.001	0.008	0.008	0.004
Des Plaines River System											
90 Route 19, Poplar Creek	0.001	0.015	0.009	0.012	0.016	0.014	0.006	0.000	0.005	0.004	0.006
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.017	ND	0.019	0.007	0.002	0.005	0.011	0.009
89 Walnut Lane, West Branch DuPage River	0.007	0.021	0.018	0.018	0.023	0.020	0.011	0.006	0.008	0.010	0.011
64 Lake Street, West Branch DuPage River	0.006	0.022	0.016	0.019	0.021	0.019	0.008	0.002	0.010	0.008	0.011
79 Higgins Road, Salt Creek	0.001	0.017	0.011	0.014	0.021	0.014	0.008	0.000	0.003	0.005	0.005
80 Arlington Heights Road, Salt Creek	0.003	0.018	0.013	0.017	0.018	0.021	0.011	0.003	0.005	0.006	0.006
18 Devon Avenue, Salt Creek	0.003	0.021	0.012	0.016	0.019	0.016	0.011	0.004	0.004	0.007	0.007
24 Wolf Road, Salt Creek	0.006	0.020	0.013	0.017	0.020	0.018	0.011	0.004	0.005	0.006	0.012
109 Brookfield Avenue, Salt Creek	0.007	0.020	0.014	0.022	0.024	ND	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	0.013
77 Elmhurst Road, Higgins Creek	0.006	0.016	0.017	0.018	0.019	0.017	0.009	0.003	0.007	0.005	0.011
78 Wille Road, Higgins Creek	0.001	0.017	0.012	0.014	0.018	0.016	0.011	0.000	0.013	0.004	0.007
12 Lake-Cook Road, Buffalo Creek	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.017	0.013	0.016	0.019	0.015	0.010	0.001	0.006	0.007	0.008
17 Oakton Steet, Des Plaines River	0.002	0.016	0.012	0.015	0.018	0.014	0.010	0.001	0.007	0.002	0.006
19 Belmont Avenue, Des Plaines River	0.003	0.019	0.014	0.016	0.021	0.017	0.012	0.001	0.008	0.005	0.007
20 Roosevelt Road, Des Plaines River	0.003	0.017	0.011	0.017	0.022	0.015	0.010	0.002	0.007	0.005	0.008
22 Ogden Avenue, Des Plaines River	0.004	0.020	0.012	0.017	0.020	0.019	0.012	0.001	0.006	0.009	0.008
23 Willow Springs Road, Des Plaines River	0.004	0.021	0.012	0.015	0.023	0.017	0.010	0.001	0.005	0.005	0.009
29 Stephen Street, Des Plaines River	0.004	0.019	0.011	0.016	0.022	0.017	0.011	0.002	0.005	0.004	0.011
91 Material Service Road, Des Plaines River	0.003	0.017	0.014	0.015	0.019	0.019	0.011	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.017	0.012	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-93: TOTAL CHROMIUM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.005	0.009	ND	ND	ND	0.000
106 Dundee Road, West Fork North Branch Chicago River	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	0.000	0.000	0.001	0.007	0.006	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.003	0.000	0.000	0.001	0.006	0.004	0.001	0.001	0.005	0.000	0.001
104 Glenview Road, North Branch Chicago River	0.003	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	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	0.000	0.001	0.002	0.003	0.001	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.000	0.000	0.001	0.007	0.003	0.000	0.000	0.000	0.000	0.001
96 Albany Avenue, North Branch Chicago River	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	0.002	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	0.000	0.000	0.002	0.003	0.004	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.000	0.000	0.005	0.002	0.003	0.000	0.000	0.000	0.001
101 Foster Avenue, North Shore Channel	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	0.000	0.000	0.001	0.006	0.003	0.001	0.000	0.000	0.000	0.002
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.000	0.002	0.004	0.004	0.002	0.000	0.000	0.000	0.001
46 Grand Avenue, North Branch Chicago River	0.002	0.000	0.001	0.003	0.005	0.002	0.002	0.000	0.000	0.002	0.001
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.001	0.003	0.002	0.002	0.000	0.000	0.001	0.004
100 Wells Street, Chicago River	0.001	0.000	0.000	0.001	0.004	0.005	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	0.001	0.002	0.005	0.003	0.003	0.002	0.003	0.000	0.003
108 Loomis Street, South Branch Chicago River	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	0.001	0.000	0.000	0.002	0.008	0.000	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.002	0.000	0.001	0.003	ND	ND	0.002	0.002	0.002	0.001	0.003
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.005	0.004	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.001	0.001	0.003	0.006	0.003	0.005	0.001	0.000	0.000	0.003
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.000	0.001	0.003	0.004	0.005	0.006	0.001	0.001	0.000	0.004
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.000	0.003	0.004	0.005	0.002	0.007	0.001	0.000	0.001	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.002	0.002	0.004	0.004	0.005	0.006	0.001	0.000	0.000	0.004
82 Lockport Trebler, Chicago Sanitary & Ship Canal	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	0.001	0.002	0.003	0.007	0.004	0.002	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.000	0.000	0.000	0.002	0.002	0.003	0.002	0.002	0.000	0.002
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.004	0.002	0.001	0.000	0.000	0.000	0.002
55 130th Street, Calumet River	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	0.009	0.002	0.004	0.003	0.006	0.006	0.002	0.005	0.003	0.035
56 Indiana Avenue, Little Calumet River	0.002	0.000	0.000	0.001	0.006	0.002	0.003	0.001	0.000	0.000	0.003
76 Halsted Street, Little Calumet River	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	0.001	0.001	0.001	0.007	0.003	0.003	0.001	0.000	0.000	0.003
54 Joe Orr Road, Thorn Creek	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	0.001	0.002	0.003	0.005	0.008	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.002	0.002	0.002	0.007	0.003	0.004	0.001	0.000	0.000	0.001
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	0.001	0.002	0.006	0.003	0.003	0.001	0.004	0.000	0.002
59 Cicero Avenue, Calumet Sag Channel	0.002	0.000	0.002	0.003	0.005	0.005	0.004	0.002	0.000	0.000	0.005
43 Route 83, Calumet Sag Channel	0.002	0.000	0.000	0.004	0.005	0.004	0.004	0.002	0.000	0.003	0.004
Des Plaines River System											
90 Route 19, Poplar Creek	0.001	0.000	0.000	0.001	0.003	0.005	0.002	0.000	0.000	0.002	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.000	ND	0.009	0.001	0.002	0.003	0.001	0.002
89 Walnut Lane, West Branch DuPage River	0.001	0.000	0.000	0.001	0.002	0.004	0.001	0.000	0.000	0.002	0.000
64 Lake Street, West Branch DuPage River	0.002	0.000	0.000	0.001	0.003	0.005	0.001	0.000	0.001	0.001	0.000
79 Higgins Road, Salt Creek	0.002	0.001	0.000	0.003	0.009	0.005	0.001	0.000	0.000	0.000	0.001
80 Arlington Heights Road, Salt Creek	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	0.000	0.001	0.001	0.002	0.002	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.003	0.001	0.000	0.004	0.007	0.006	0.004	0.000	0.000	0.001	0.002
109 Brookfield Avenue, Salt Creek	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	0.000	0.006	0.003	0.001	0.000	0.000	0.001
77 Elmhurst Road, Higgins Creek	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	0.000	0.001	0.002	0.004	0.004	0.003	0.000	0.004	0.001	0.003
12 Lake-Cook Road, Buffalo Creek	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.000	0.001	0.001	0.003	0.001	0.000	0.000	0.001	0.001
17 Oakton Steet, Des Plaines River	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	0.013	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	0.004	0.000	0.018	0.004	0.005	0.003	0.001	0.000	0.000	0.001
22 Ogden Avenue, Des Plaines River	0.003	0.002	0.002	0.003	0.004	0.005	0.005	0.000	0.001	0.002	0.001
23 Willow Springs Road, Des Plaines River	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	0.004	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	0.001	0.003	0.004	0.005	0.002	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-94: TOTAL HEXAVALENT CHROMIUM MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-95: TOTAL IRON MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	1.795	3.350	ND	ND	ND	0.690
106 Dundee Road, West Fork North Branch Chicago River	2.559	1.173	1.846	1.601	0.913	1.349	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.142	0.864	0.698	0.823	1.037	0.953	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.924	0.817	0.917	0.922	0.934	1.443	0.634	0.734	0.526	0.710	0.786
104 Glenview Road, North Branch Chicago River	1.421	0.598	0.705	0.847	0.705	0.707	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.756	0.867	0.922	0.683	0.831	1.040	0.565	0.652	0.575	0.492	0.620
105 Frontage Road, Skokie River	0.591	0.476	0.856	0.534	0.580	0.528	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.091	0.697	0.703	0.744	0.889	0.957	0.502	0.521	0.488	0.431	0.435
96 Albany Avenue, North Branch Chicago River	0.917	0.646	0.722	0.701	0.889	0.666	0.320	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.322	0.329	0.297	0.256	0.355	0.357	0.268	0.183	0.180	0.181	0.198
102 Oakton Street, North Shore Channel	0.394	0.358	0.393	0.522	0.466	0.560	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.180	0.209	0.241	0.171	0.310	0.284	0.178	0.136	0.107	0.101	0.139
101 Foster Avenue, North Shore Channel	0.214	0.306	0.320	0.236	0.347	0.295	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.361	0.306	0.385	0.355	0.490	0.450	0.248	0.210	0.178	0.152	0.203
73 Diversey Parkway, North Branch Chicago River	0.401	0.319	0.384	0.509	0.560	0.538	0.305	0.273	0.248	0.208	0.268
46 Grand Avenue, North Branch Chicago River	0.506	0.386	0.637	0.466	0.594	0.531	0.328	0.283	0.223	0.231	0.236
74 Lake Shore Drive, Chicago River	0.099	0.127	0.136	0.158	0.199	0.219	0.192	0.102	0.098	0.133	0.137
100 Wells Street, Chicago River	0.178	0.171	0.180	0.222	0.248	0.347	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.294	0.326	0.394	0.389	0.439	0.550	0.386	0.238	0.199	0.165	0.222
108 Loomis Street, South Branch Chicago River	0.397	0.327	0.382	0.392	0.417	0.481	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.384	0.393	0.462	0.455	0.599	0.822	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.465	0.360	0.488	0.446	ND	ND	0.258	0.269	0.212	0.223	0.246
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.507	0.717	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.494	0.401	0.484	0.493	0.545	0.621	0.379	0.313	0.225	0.243	0.268
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.295	0.256	0.270	0.261	0.330	0.331	0.262	0.210	0.141	0.153	0.161
42 Route 83, Chicago Sanitary & Ship Canal	0.247	0.247	0.293	0.318	0.336	0.324	0.182	0.170	0.132	0.224	0.173
48 Stephen Street, Chicago Sanitary & Ship Canal	0.511	0.473	0.509	0.516	0.429	0.466	0.316	0.222	0.261	0.277	0.333
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.616	1.125	1.165	1.386	0.778
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.477	0.443	0.445	0.434	0.505	0.493	0.320	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.308	0.202	0.293	0.249	0.268	0.429	0.317	0.242	0.213	0.160	0.213
50 Burnham Avenue, Wolf Lake	0.065	0.148	0.100	0.110	0.134	0.203	0.123	0.118	0.134	0.081	0.114
55 130th Street, Calumet River	0.479	0.257	0.244	0.330	0.345	0.437	0.365	0.191	0.203	0.195	0.224
86 Burnham Avenue, Grand Calumet River	1.217	2.100	1.194	1.315	1.335	1.111	1.126	0.766	0.963	0.712	4.656
56 Indiana Avenue, Little Calumet River	0.587	0.684	0.576	0.791	1.014	0.633	0.470	0.395	0.334	0.412	0.551
76 Halsted Street, Little Calumet River	0.380	0.321	0.382	0.330	0.449	0.511	0.329	0.251	0.294	0.347	0.413
52 Wentworth Avenue, Little Calumet River	1.676	1.388	1.469	1.350	1.973	1.504	1.156	0.927	1.442	0.983	1.147
54 Joe Orr Road, Thorn Creek	0.317	2.309	0.681	1.481	0.445	0.594	0.433	0.262	0.447	0.368	0.223
97 170th Street, Thorn Creek	1.217	1.516	1.468	1.088	0.867	1.623	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.126	1.514	1.678	1.084	0.980	1.435	0.642	0.640	0.853	0.669	0.609
58 Ashland Avenue, Calumet Sag Channel	0.461	0.548	0.543	0.787	0.616	0.639	0.439	0.360	0.353	0.718	0.552
59 Cicero Avenue, Calumet Sag Channel	0.780	0.524	0.664	0.745	0.637	0.764	0.478	0.398	0.416	0.510	0.612
43 Route 83, Calumet Sag Channel	0.722	0.514	0.505	0.973	0.751	0.947	0.546	0.388	0.420	0.659	0.690
Des Plaines River System											
90 Route 19, Poplar Creek	1.105	1.031	0.619	0.982	0.846	0.840	0.611	0.627	0.508	0.893	0.931
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	1.353	ND	1.256	0.844	0.672	0.749	0.614	0.955
89 Walnut Lane, West Branch DuPage River	0.333	0.383	0.423	0.608	0.432	0.477	0.417	0.285	0.228	0.220	0.408
64 Lake Street, West Branch DuPage River	1.017	1.009	0.863	1.154	0.894	1.062	0.773	0.577	0.536	0.627	0.734
79 Higgins Road, Salt Creek	1.306	1.534	0.869	1.666	1.448	1.119	0.858	0.760	0.737	0.815	0.971
80 Arlington Heights Road, Salt Creek	0.397	0.344	0.420	0.345	0.343	0.511	0.350	0.375	0.220	0.250	0.229
18 Devon Avenue, Salt Creek	0.488	0.421	0.539	0.590	0.434	0.660	0.518	0.583	0.248	0.425	0.298
24 Wolf Road, Salt Creek	1.287	0.875	0.732	1.312	0.662	0.859	0.621	0.557	0.478	0.598	0.602
109 Brookfield Avenue, Salt Creek	1.371	0.903	0.701	1.580	0.605	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.583	1.204	0.695	0.514	0.457	0.473	0.500
77 Elmhurst Road, Higgins Creek	1.375	0.866	1.061	1.454	1.179	1.127	0.733	0.812	0.748	0.704	1.029
78 Wille Road, Higgins Creek	0.153	0.160	0.184	0.227	0.417	0.334	0.214	0.103	0.415	0.181	0.333
12 Lake-Cook Road, Buffalo Creek	1.086	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.920	0.892	0.757	0.964	0.829	0.992	0.678	0.586	0.537	0.589	0.583
17 Oakton Steet, Des Plaines River	0.875	0.722	0.726	1.499	0.632	1.024	0.770	0.577	0.586	0.688	0.504
19 Belmont Avenue, Des Plaines River	0.892	0.682	0.673	1.145	0.680	0.887	0.631	0.490	0.493	0.670	0.507
20 Roosevelt Road, Des Plaines River	0.871	0.766	0.688	1.292	0.749	0.760	0.632	0.514	0.463	0.648	0.483
22 Ogden Avenue, Des Plaines River	1.161	0.850	0.710	1.300	0.679	0.869	0.611	0.510	0.447	0.643	0.479
23 Willow Springs Road, Des Plaines River	0.932	0.727	0.702	1.068	0.611	1.007	0.652	0.557	0.577	0.596	0.550
29 Stephen Street, Des Plaines River	0.907	0.756	0.805	1.176	0.679	1.195	0.707	0.580	0.868	0.572	0.568
91 Material Service Road, Des Plaines River	0.966	0.790	0.810	1.213	0.754	1.216	0.669	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1.222	1.425	1.342	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-96: TOTAL LEAD MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000
106 Dundee Road, West Fork North Branch Chicago River	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	0.006	0.005	0.007	0.004	0.002	0.010	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.007	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	0.008	0.003	0.006	0.007	0.002	0.002	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.007	0.003	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	0.003	0.007	0.006	0.002	0.000	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.007	0.005	0.006	0.076	0.002	0.003	0.000	0.000	0.000	0.000	0.005
96 Albany Avenue, North Branch Chicago River	0.007	0.005	0.008	0.006	0.002	0.004	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.003	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	0.004	0.004	0.004	0.006	0.002	0.005	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.004	0.003	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	0.003	0.005	0.005	0.001	0.000	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	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	0.004	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	0.007	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	0.004	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	0.010	0.004	0.005	0.004	0.001	0.000	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.010	0.006	0.007	0.006	0.002	0.000	0.003	0.000	0.000	0.004	0.000
108 Loomis Street, South Branch Chicago River	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	0.007	0.007	0.008	0.008	0.003	0.007	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.011	0.007	0.009	0.008	ND	ND	0.009	0.000	0.000	0.003	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.003	0.004	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.011	0.007	0.009	0.009	0.003	0.000	0.006	0.004	0.000	0.003	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	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	0.007	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	0.008	0.007	0.009	0.008	0.002	0.000	0.004	0.000	0.000	0.017	0.008
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.000	0.004	0.005	0.007	0.008
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.006	0.007	0.007	0.003	0.002	0.001	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.004	0.003	0.005	0.004	0.002	0.000	0.000	0.000	0.000	0.017	0.000
50 Burnham Avenue, Wolf Lake	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	0.008	0.004	0.005	0.004	0.002	0.002	0.010	0.000	0.000	0.003	0.000
86 Burnham Avenue, Grand Calumet River	0.013	0.034	0.015	0.014	0.002	0.000	0.005	0.005	0.000	0.003	0.090
56 Indiana Avenue, Little Calumet River	0.006	0.006	0.006	0.007	0.003	0.003	0.003	0.000	0.000	0.009	0.000
76 Halsted Street, Little Calumet River	0.006	0.005	0.007	0.006	0.003	0.000	0.000	0.000	0.000	0.006	0.000
52 Wentworth Avenue, Little Calumet River	0.006	0.005	0.007	0.005	0.003	0.005	0.003	0.000	0.000	0.004	0.000
54 Joe Orr Road, Thorn Creek	0.004	0.016	0.005	0.005	0.000	0.003	0.008	0.000	0.000	0.003	0.000
97 170th Street, Thorn Creek	0.006	0.007	0.010	0.006	0.003	0.000	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.006	0.008	0.011	0.007	0.002	0.000	0.000	0.000	0.000	0.005	0.000
58 Ashland Avenue, Calumet Sag Channel	0.006	0.010	0.007	0.006	0.004	0.003	0.003	0.000	0.000	0.003	0.559
59 Cicero Avenue, Calumet Sag Channel	0.007	0.005	0.009	0.007	0.003	0.001	0.000	0.007	0.000	0.014	0.008
43 Route 83, Calumet Sag Channel	0.008	0.008	0.007	0.009	0.004	0.068	0.006	0.000	0.000	0.008	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	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	0.006	ND	0.000	0.003	0.000	0.000	0.000	0.004
89 Walnut Lane, West Branch DuPage River	0.005	0.003	0.010	0.006	0.009	0.000	0.003	0.000	0.358	0.000	0.003
64 Lake Street, West Branch DuPage River	0.005	0.012	0.008	0.005	0.002	0.000	0.004	0.000	0.000	0.000	0.001
79 Higgins Road, Salt Creek	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	0.005	0.003	0.007	0.004	0.001	0.000	0.008	0.000	0.000	0.000	0.002
18 Devon Avenue, Salt Creek	0.004	0.004	0.006	0.004	0.002	0.000	0.000	0.000	0.000	0.004	0.001
24 Wolf Road, Salt Creek	0.007	0.004	0.008	0.007	0.003	0.005	0.000	0.000	0.000	0.008	0.001
109 Brookfield Avenue, Salt Creek	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	0.000	0.005	0.004	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.008	0.004	0.011	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.003
78 Wille Road, Higgins Creek	0.004	0.004	0.007	0.004	0.003	0.002	0.000	0.000	0.000	0.000	0.003
12 Lake-Cook Road, Buffalo Creek	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.004	0.003	0.022	0.005	0.003	0.027	0.004	0.000	0.000	0.009	0.006
17 Oakton Steet, Des Plaines River	0.005	0.004	0.007	0.006	0.003	0.002	0.004	0.000	0.000	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.006	0.005	0.008	0.006	0.003	0.000	0.012	0.000	0.000	0.000	0.003
20 Roosevelt Road, Des Plaines River	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	0.008	0.005	0.008	0.008	0.002	0.003	0.000	0.000	0.000	0.000	0.002
23 Willow Springs Road, Des Plaines River	0.007	0.005	0.012	0.007	0.003	0.000	0.004	0.000	0.000	0.005	0.095
29 Stephen Street, Des Plaines River	0.006	0.005	0.009	0.008	0.002	0.002	0.000	0.000	0.000	0.003	0.000
91 Material Service Road, Des Plaines River	0.007	0.005	0.009	0.008	0.002	0.007	0.003	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.005	0.004	0.010	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-97: TOTAL NICKEL MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-98: TOTAL MANGANESE MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.122	0.139	ND	ND	ND	0.088
106 Dundee Road, West Fork North Branch Chicago River	0.087	0.083	0.097	0.097	0.067	0.110	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.068	0.087	0.067	0.070	0.091	0.098	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.084	0.128	0.092	0.077	0.148	0.107	0.080	0.217	0.079	0.177	0.183
104 Glenview Road, North Branch Chicago River	0.072	0.080	0.060	0.062	0.060	0.078	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.086	0.124	0.137	0.081	0.096	0.131	0.100	0.162	0.115	0.123	0.163
105 Frontage Road, Skokie River	0.038	0.045	0.086	0.108	0.046	0.057	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.064	0.072	0.065	0.112	0.083	0.098	0.067	0.059	0.067	0.066	0.130
96 Albany Avenue, North Branch Chicago River	0.060	0.059	0.062	0.072	0.057	0.068	0.035	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.019	0.045	0.017	0.020	0.028	0.037	0.021	0.024	0.017	0.026	0.028
102 Oakton Street, North Shore Channel	0.024	0.021	0.025	0.031	0.026	0.036	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.014	0.021	0.019	0.016	0.034	0.038	0.029	0.018	0.015	0.031	0.033
101 Foster Avenue, North Shore Channel	0.015	0.021	0.023	0.019	0.027	0.020	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.022	0.026	0.027	0.030	0.035	0.047	0.042	0.048	0.029	0.028	0.034
73 Diversey Parkway, North Branch Chicago River	0.026	0.026	0.027	0.046	0.036	0.053	0.081	0.027	0.045	0.164	0.042
46 Grand Avenue, North Branch Chicago River	0.031	0.033	0.037	0.038	0.042	0.042	0.044	0.028	0.052	0.026	0.026
74 Lake Shore Drive, Chicago River	0.008	0.012	0.018	0.013	0.017	0.020	0.035	0.010	0.009	0.015	0.010
100 Wells Street, Chicago River	0.013	0.020	0.022	0.020	0.021	0.027	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.022	0.069	0.028	0.028	0.036	0.037	0.039	0.027	0.021	0.019	0.027
108 Loomis Street, South Branch Chicago River	0.027	0.036	0.028	0.027	0.035	0.050	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.026	0.038	0.034	0.032	0.048	0.062	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.029	0.031	0.029	0.035	ND	ND	0.038	0.028	0.024	0.024	0.023
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.041	0.070	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.029	0.029	0.032	0.040	0.045	0.047	0.027	0.022	0.034	0.033
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.031	0.019	0.019	0.017	0.036	0.030	0.046	0.022	0.019	0.018	0.062
42 Route 83, Chicago Sanitary & Ship Canal	0.020	0.021	0.022	0.029	0.039	0.029	0.028	0.025	0.013	0.024	0.025
48 Stephen Street, Chicago Sanitary & Ship Canal	0.039	0.039	0.042	0.039	0.043	0.050	0.049	0.033	0.026	0.040	0.045
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.049	0.083	0.066	0.093	0.078
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.036	0.037	0.047	0.037	0.053	0.045	0.074	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.017	0.016	0.053	0.020	0.022	0.030	0.024	0.029	0.028	0.014	0.042
50 Burnham Avenue, Wolf Lake	0.029	0.054	0.040	0.035	0.028	0.043	0.044	0.058	0.062	0.063	0.070
55 130th Street, Calumet River	0.040	0.033	0.030	0.039	0.031	0.046	0.037	0.031	0.038	0.037	0.082
86 Burnham Avenue, Grand Calumet River	0.144	0.093	0.096	0.158	0.098	0.093	0.090	0.058	0.044	0.052	0.159
56 Indiana Avenue, Little Calumet River	0.029	0.037	0.028	0.039	0.086	0.041	0.040	0.057	0.038	0.040	0.074
76 Halsted Street, Little Calumet River	0.041	0.037	0.036	0.041	0.053	0.068	0.058	0.056	0.045	0.046	0.070
52 Wentworth Avenue, Little Calumet River	0.112	0.115	0.138	0.124	0.134	0.145	0.138	0.130	0.149	0.109	0.196
54 Joe Orr Road, Thorn Creek	0.050	0.131	0.073	0.058	0.073	0.070	0.065	0.062	0.043	0.146	0.056
97 170th Street, Thorn Creek	0.080	0.095	0.111	0.080	0.102	0.100	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.087	0.123	0.128	0.109	0.104	0.126	0.093	0.100	0.098	0.089	0.089
58 Ashland Avenue, Calumet Sag Channel	0.048	0.052	0.048	0.055	0.066	0.071	0.069	0.078	0.053	0.048	0.121
59 Cicero Avenue, Calumet Sag Channel	0.056	0.050	0.071	0.078	0.073	0.078	0.064	0.065	0.058	0.060	0.104
43 Route 83, Calumet Sag Channel	0.054	0.065	0.059	0.094	0.063	0.076	0.063	0.061	0.053	0.064	0.077
Des Plaines River System											
90 Route 19, Poplar Creek	0.080	0.147	0.097	0.083	0.103	0.107	0.155	0.068	0.164	0.208	0.136
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.060	ND	0.151	0.118	0.073	0.174	0.108	0.132
89 Walnut Lane, West Branch DuPage River	0.033	0.044	0.044	0.043	0.074	0.074	0.105	0.038	0.080	0.133	0.053
64 Lake Street, West Branch DuPage River	0.065	0.087	0.071	0.076	0.069	0.092	0.065	0.061	0.068	0.111	0.090
79 Higgins Road, Salt Creek	0.089	0.138	0.124	0.096	0.134	0.124	0.092	0.091	0.092	0.252	0.119
80 Arlington Heights Road, Salt Creek	0.046	0.063	0.057	0.052	0.051	0.051	0.061	0.050	0.064	0.115	0.058
18 Devon Avenue, Salt Creek	0.048	0.053	0.052	0.054	0.052	0.055	0.085	0.069	0.050	0.153	0.061
24 Wolf Road, Salt Creek	0.061	0.059	0.055	0.069	0.066	0.077	0.087	0.065	0.083	0.064	0.087
109 Brookfield Avenue, Salt Creek	0.061	0.065	0.055	0.072	0.042	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.065	0.101	0.061	0.055	0.068	0.058	0.076
77 Elmhurst Road, Higgins Creek	0.107	0.106	0.125	0.115	0.120	0.163	0.133	0.112	0.136	0.111	0.140
78 Wille Road, Higgins Creek	0.030	0.023	0.025	0.033	0.048	0.038	0.064	0.022	0.093	0.043	0.063
12 Lake-Cook Road, Buffalo Creek	0.107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.067	0.086	0.084	0.083	0.089	0.090	0.071	0.065	0.111	0.218	0.094
17 Oakton Steet, Des Plaines River	0.062	0.080	0.067	0.093	0.089	0.102	0.093	0.071	0.098	0.077	0.088
19 Belmont Avenue, Des Plaines River	0.061	0.079	0.061	0.076	0.079	0.090	0.069	0.059	0.096	0.074	0.094
20 Roosevelt Road, Des Plaines River	0.061	0.073	0.062	0.074	0.145	0.077	0.065	0.061	0.080	0.073	0.080
22 Ogden Avenue, Des Plaines River	0.058	0.068	0.058	0.077	0.066	0.075	0.060	0.056	0.068	0.072	0.072
23 Willow Springs Road, Des Plaines River	0.054	0.064	0.075	0.062	0.062	0.083	0.093	0.062	0.083	0.065	0.250
29 Stephen Street, Des Plaines River	0.051	0.066	0.059	0.066	0.060	0.086	0.081	0.064	0.078	0.072	0.078
91 Material Service Road, Des Plaines River	0.054	0.068	0.065	0.068	0.065	0.097	0.061	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.129	0.209	0.126	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-99: TOTAL MERCURY MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000
106 Dundee Road, West Fork North Branch Chicago River	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	0.015	0.039	0.080	0.016	0.045	0.013	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.012	0.013	0.121	0.029	0.015	0.007	0.000	0.019	0.044	0.030	0.125
104 Glenview Road, North Branch Chicago River	0.024	0.034	0.111	0.013	0.034	0.006	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.022	0.029	0.113	0.019	0.040	0.005	0.024	0.035	0.038	0.050	0.000
105 Frontage Road, Skokie River	0.011	0.062	0.160	0.021	0.030	0.010	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.010	0.034	0.125	0.012	0.031	0.000	0.022	0.037	0.040	0.036	0.000
96 Albany Avenue, North Branch Chicago River	0.006	0.064	0.028	0.016	0.023	0.013	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.007	0.016	0.000	0.010	0.038	0.006	0.000	0.012	0.028	0.040	0.000
102 Oakton Street, North Shore Channel	0.009	0.068	0.076	0.000	0.025	0.017	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.011	0.040	0.077	0.018	0.018	0.028	0.017	0.006	0.033	0.058	0.000
101 Foster Avenue, North Shore Channel	0.011	0.046	0.067	0.006	0.026	0.013	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.024	0.041	0.095	0.017	0.024	0.018	0.008	0.016	0.043	0.075	0.000
73 Diversey Parkway, North Branch Chicago River	0.011	0.022	0.016	0.010	0.035	0.013	0.059	0.036	0.043	0.092	0.000
46 Grand Avenue, North Branch Chicago River	0.009	0.018	0.039	0.041	0.046	0.000	0.028	0.021	0.043	0.895	0.008
74 Lake Shore Drive, Chicago River	0.005	0.000	0.122	0.044	0.020	0.000	0.015	0.025	0.044	0.009	0.036
100 Wells Street, Chicago River	0.016	0.030	0.061	0.033	0.013	0.006	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.016	0.011	0.021	0.058	0.031	0.000	0.029	0.028	0.033	0.009	0.000
108 Loomis Street, South Branch Chicago River	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	0.029	0.020	0.053	0.018	0.018	0.039	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.023	0.007	0.021	0.033	ND	ND	0.011	0.017	0.031	0.008	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.018	0.014	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.022	0.029	0.049	0.038	0.011	0.003	0.028	0.022	0.043	0.067	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.000	0.022	0.021	0.015	0.016	0.026	0.018	0.034	0.017	0.025
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.010	0.087	0.023	0.007	0.005	0.015	0.018	0.033	0.050	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.018	0.016	0.093	0.031	0.008	0.000	0.005	0.006	0.026	0.017	0.033
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.007	0.021	0.000	0.008	0.004
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.015	0.017	0.079	0.045	0.026	0.013	0.009	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.008	0.000	0.110	0.013	0.018	0.004	0.013	0.008	0.030	0.033	0.020
50 Burnham Avenue, Wolf Lake	0.015	0.005	0.020	0.038	0.021	0.009	0.010	0.021	0.027	0.033	0.017
55 130th Street, Calumet River	0.015	0.017	0.051	0.009	0.031	0.014	0.000	0.035	0.033	0.067	0.030
86 Burnham Avenue, Grand Calumet River	0.034	0.148	0.068	0.079	0.055	0.032	0.000	0.051	0.128	0.083	1.518
56 Indiana Avenue, Little Calumet River	0.018	0.019	0.000	0.027	0.034	0.021	0.008	0.029	0.041	0.064	0.020
76 Halsted Street, Little Calumet River	0.021	0.018	0.029	0.007	0.047	0.003	0.005	0.038	0.033	0.375	0.000
52 Wentworth Avenue, Little Calumet River	0.015	0.036	0.017	0.027	0.034	0.024	0.015	0.016	0.033	0.050	0.044
54 Joe Orr Road, Thorn Creek	0.018	0.033	0.000	0.053	0.044	0.004	0.000	0.035	0.036	0.042	0.000
97 170th Street, Thorn Creek	0.015	0.031	0.025	0.034	0.018	0.032	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.015	0.044	0.052	0.025	0.041	0.020	0.000	0.040	0.042	0.050	0.011
58 Ashland Avenue, Calumet Sag Channel	0.015	0.010	0.032	0.010	0.009	0.008	0.014	0.014	0.014	0.933	0.008
59 Cicero Avenue, Calumet Sag Channel	0.018	0.019	0.050	0.007	0.021	0.013	0.016	0.013	0.035	0.092	0.000
43 Route 83, Calumet Sag Channel	0.010	0.023	0.017	0.007	0.028	0.018	0.008	0.016	0.040	0.083	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.008	0.045	0.051	0.016	0.028	0.027	0.000	0.021	0.505	0.122	0.018
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.000	ND	0.000	0.000	0.012	0.041	0.030	0.018
89 Walnut Lane, West Branch DuPage River	0.008	0.007	0.042	0.016	0.024	0.009	0.017	0.053	0.328	0.042	0.008
64 Lake Street, West Branch DuPage River	0.009	0.013	0.044	0.044	0.029	0.009	0.007	0.060	0.021	0.058	0.009
79 Higgins Road, Salt Creek	0.000	0.008	0.014	0.032	0.051	0.005	0.018	0.058	0.062	0.055	0.010
80 Arlington Heights Road, Salt Creek	0.013	0.023	0.025	0.041	0.030	0.009	0.000	0.057	0.067	0.050	0.008
18 Devon Avenue, Salt Creek	0.018	0.044	0.058	0.040	0.008	0.012	0.000	0.061	0.035	0.067	0.008
24 Wolf Road, Salt Creek	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	0.013	0.000	0.075	0.035	0.023	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.000	0.009	0.000	0.062	0.019	0.027	0.017
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.040	0.048	0.030	0.015	0.000	0.045	0.053	0.036	0.050
78 Wille Road, Higgins Creek	0.013	0.013	0.032	0.038	0.018	0.017	0.008	0.050	0.019	0.033	0.017
12 Lake-Cook Road, Buffalo Creek	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.020	0.014	0.035	0.021	0.023	0.016	0.000	0.056	0.058	0.045	0.000
17 Oakton Steet, Des Plaines River	0.013	0.017	0.025	0.075	0.028	0.019	0.000	0.079	0.036	0.018	0.033
19 Belmont Avenue, Des Plaines River	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	0.013	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	0.018	0.013	0.050	0.054	0.055	0.017	0.000	0.064	0.012	0.017	0.000
23 Willow Springs Road, Des Plaines River	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	0.047	0.011	0.037	0.016	0.044	0.029	0.000	0.065	0.033	0.017	0.000
91 Material Service Road, Des Plaines River	0.012	0.021	0.017	0.015	0.033	0.016	0.002	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	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
1996 THROUGH 2006

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

ND = No Data

TABLE AII-101: TOTAL ZINC MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.070	0.079	ND	ND	ND	0.033
106 Dundee Road, West Fork North Branch Chicago River	0.045	0.039	0.052	0.045	0.031	0.091	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.026	0.028	0.032	0.028	0.046	0.047	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.029	0.019	0.021	0.022	0.022	0.056	0.020	0.027	0.005	0.019	0.013
104 Glenview Road, North Branch Chicago River	0.049	0.038	0.033	0.038	0.035	0.039	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.036	0.027	0.021	0.024	0.029	0.049	0.024	0.032	0.009	0.020	0.028
105 Frontage Road, Skokie River	0.029	0.035	0.042	0.047	0.043	0.038	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.025	0.031	0.034	0.046	0.042	0.040	0.036	0.058	0.008	0.025	0.035
96 Albany Avenue, North Branch Chicago River	0.024	0.030	0.032	0.036	0.038	0.041	0.038	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.011	0.019	0.020	0.025	0.028	0.023	0.015	0.007	0.001	0.009	0.012
102 Oakton Street, North Shore Channel	0.027	0.030	0.026	0.042	0.037	0.030	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.035	0.042	0.040	0.045	0.058	0.055	0.047	0.037	0.017	0.038	0.043
101 Foster Avenue, North Shore Channel	0.035	0.039	0.047	0.046	0.044	0.047	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.032	0.039	0.042	0.043	0.042	0.055	0.046	0.033	0.013	0.028	0.039
73 Diversey Parkway, North Branch Chicago River	0.032	0.037	0.036	0.058	0.045	0.056	0.062	0.043	0.020	0.057	0.053
46 Grand Avenue, North Branch Chicago River	0.041	0.049	0.051	0.064	0.049	0.049	0.049	0.035	0.015	0.034	0.028
74 Lake Shore Drive, Chicago River	0.018	0.029	0.023	0.024	0.023	0.039	0.031	0.011	0.008	0.025	0.006
100 Wells Street, Chicago River	0.021	0.030	0.028	0.030	0.028	0.044	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.029	0.043	0.046	0.042	0.077	0.061	0.043	0.028	0.011	0.024	0.027
108 Loomis Street, South Branch Chicago River	0.033	0.038	0.042	0.041	0.040	0.045	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.028	0.039	0.040	0.038	0.044	0.055	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.042	0.045	0.047	0.065	ND	ND	0.039	0.023	0.012	0.028	0.023
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.045	0.078	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.035	0.040	0.042	0.041	0.046	0.057	0.046	0.033	0.012	0.032	0.033
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.035	0.041	0.037	0.038	0.038	0.046	0.047	0.036	0.013	0.033	0.036
42 Route 83, Chicago Sanitary & Ship Canal	0.032	0.038	0.045	0.047	0.045	0.048	0.036	0.031	0.018	0.046	0.037
48 Stephen Street, Chicago Sanitary & Ship Canal	0.033	0.044	0.056	0.047	0.046	0.052	0.046	0.028	0.015	0.041	0.043
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	0.075	0.094	0.162	0.141	0.133
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.038	0.049	0.047	0.049	0.050	0.049	0.053	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.016	0.014	0.019	0.018	0.021	0.030	0.022	0.025	0.013	0.008	0.027
50 Burnham Avenue, Wolf Lake	0.008	0.015	0.016	0.019	0.013	0.026	0.015	0.013	0.008	0.007	0.016
55 130th Street, Calumet River	0.053	0.022	0.026	0.022	0.025	0.044	0.022	0.015	0.019	0.012	0.028
86 Burnham Avenue, Grand Calumet River	0.055	0.154	0.062	0.081	0.087	0.075	0.078	0.080	0.103	0.068	0.296
56 Indiana Avenue, Little Calumet River	0.021	0.030	0.032	0.034	0.051	0.034	0.040	0.032	0.028	0.025	0.031
76 Halsted Street, Little Calumet River	0.041	0.051	0.052	0.050	0.065	0.066	0.047	0.027	0.034	0.036	0.133
52 Wentworth Avenue, Little Calumet River	0.027	0.035	0.047	0.036	0.064	0.046	0.045	0.028	0.023	0.031	0.054
54 Joe Orr Road, Thorn Creek	0.050	0.103	0.059	0.040	0.054	0.065	0.060	0.041	0.032	0.054	0.042
97 170th Street, Thorn Creek	0.031	0.046	0.060	0.048	0.054	0.050	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.027	0.059	0.052	0.050	0.041	0.052	0.060	0.031	0.063	0.032	0.026
58 Ashland Avenue, Calumet Sag Channel	0.040	0.069	0.060	0.055	0.055	0.066	0.054	0.030	0.028	0.032	0.095
59 Cicero Avenue, Calumet Sag Channel	0.037	0.044	0.055	0.049	0.053	0.050	0.044	0.036	0.034	0.038	0.054
43 Route 83, Calumet Sag Channel	0.034	0.055	0.046	0.055	0.051	0.064	0.062	0.035	0.042	0.064	0.057
Des Plaines River System											
90 Route 19, Poplar Creek	0.014	0.035	0.017	0.033	0.027	0.024	0.012	0.015	0.015	0.037	0.021
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	0.032	ND	0.041	0.022	0.036	0.023	0.035	0.040
89 Walnut Lane, West Branch DuPage River	0.039	0.051	0.062	0.053	0.069	0.061	0.047	0.042	0.059	0.042	0.038
64 Lake Street, West Branch DuPage River	0.044	0.051	0.048	0.051	0.045	0.066	0.037	0.029	0.039	0.040	0.053
79 Higgins Road, Salt Creek	0.015	0.028	0.022	0.029	0.023	0.027	0.018	0.020	0.006	0.027	0.026
80 Arlington Heights Road, Salt Creek	0.025	0.039	0.078	0.036	0.031	0.039	0.034	0.027	0.016	0.031	0.019
18 Devon Avenue, Salt Creek	0.024	0.042	0.034	0.036	0.035	0.035	0.034	0.033	0.014	0.028	0.017
24 Wolf Road, Salt Creek	0.040	0.049	0.050	0.051	0.061	0.054	0.143	0.052	0.045	0.031	0.032
109 Brookfield Avenue, Salt Creek	0.040	0.050	0.040	0.049	0.045	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.049	0.059	0.038	0.041	0.029	0.026	0.030
77 Elmhurst Road, Higgins Creek	0.042	0.041	0.053	0.050	0.040	0.041	0.032	0.025	0.029	0.015	0.038
78 Wille Road, Higgins Creek	0.049	0.076	0.066	0.066	0.075	0.062	0.067	0.045	0.062	0.043	0.045
12 Lake-Cook Road, Buffalo Creek	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.024	0.036	0.034	0.043	0.039	0.036	0.030	0.023	0.021	0.063	0.028
17 Oakton Steet, Des Plaines River	0.024	0.037	0.032	0.048	0.038	0.037	0.033	0.025	0.024	0.014	0.023
19 Belmont Avenue, Des Plaines River	0.033	0.054	0.040	0.060	0.044	0.041	0.030	0.025	0.031	0.023	0.023
20 Roosevelt Road, Des Plaines River	0.034	0.046	0.037	0.059	0.047	0.038	0.029	0.033	0.023	0.028	0.025
22 Ogden Avenue, Des Plaines River	0.037	0.046	0.036	0.055	0.043	0.050	0.047	0.040	0.025	0.033	0.031
23 Willow Springs Road, Des Plaines River	0.034	0.043	0.037	0.045	0.037	0.048	0.056	0.035	0.033	0.029	0.032
29 Stephen Street, Des Plaines River	0.033	0.042	0.035	0.048	0.041	0.047	0.043	0.031	0.026	0.031	0.030
91 Material Service Road, Des Plaines River	0.033	0.040	0.039	0.052	0.037	0.049	0.046	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.023	0.035	0.031	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-102: TOTAL SELENIUM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)										
	06	05	04	03	02	01	00	99	98	97	96
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000
106 Dundee Road, West Fork North Branch Chicago River	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	0.001	0.006	0.015	0.003	0.007	0.006	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	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	0.001	0.004	0.011	0.002	0.003	0.000	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	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	0.001	0.006	0.012	0.006	0.002	0.002	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	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	0.001	0.004	0.009	0.006	0.006	0.004	0.000	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.007	0.008	0.003	0.008	0.007	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.002	0.004	0.011	0.004	0.002	0.000	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	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	0.001	0.006	0.010	0.006	0.013	0.004	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.007	0.011	0.006	0.017	0.007	0.000	0.000	0.000	0.000	0.008
73 Diversey Parkway, North Branch Chicago River	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	0.001	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	0.006	0.009	0.005	0.009	0.003	0.000	0.000	0.000	0.024	0.000
100 Wells Street, Chicago River	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	0.007	0.009	0.004	0.010	0.003	0.000	0.000	0.000	0.019	0.000
108 Loomis Street, South Branch Chicago River	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	0.006	0.009	0.005	0.010	0.002	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	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	0.008	0.007	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	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	0.008	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	0.007	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	0.007	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	0.000	0.004	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.007	0.011	0.005	0.007	0.009	0.001	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	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	0.004	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	0.005	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	0.005	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	0.005	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	0.006	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	0.004	0.012	0.003	0.012	0.008	0.000	0.000	0.000	0.017	0.000
54 Joe Orr Road, Thorn Creek	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	0.005	0.008	0.005	0.008	0.004	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	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	0.005	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	0.005	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	0.005	0.010	0.004	0.011	0.002	0.000	0.000	0.000	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	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	0.000	ND	0.005	0.000	0.000	0.000	0.003	0.002
89 Walnut Lane, West Branch DuPage River	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	0.008	0.013	0.005	0.007	0.005	0.000	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.002	0.007	0.013	0.001	0.003	0.011	0.000	0.000	0.000	0.018	0.000
80 Arlington Heights Road, Salt Creek	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	0.008	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	0.009	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	0.007	0.011	0.003	0.004	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.020	0.007	0.000	0.000	0.000	0.000	0.001
77 Elmhurst Road, Higgins Creek	0.000	0.010	0.014	0.005	0.008	0.008	0.000	0.000	0.000	0.000	0.003
78 Wille Road, Higgins Creek	0.001	0.008	0.011	0.006	0.010	0.007	0.000	0.000	0.000	0.017	0.000
12 Lake-Cook Road, Buffalo Creek	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.007	0.014	0.006	0.007	0.009	0.000	0.000	0.000	0.000	0.001
17 Oakton Steet, Des Plaines River	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	0.007	0.010	0.004	0.008	0.008	0.000	0.000	0.000	0.000	0.003
20 Roosevelt Road, Des Plaines River	0.000	0.007	0.013	0.002	0.006	0.007	0.000	0.000	0.000	0.000	0.002
22 Ogden Avenue, Des Plaines River	0.000	0.010	0.011	0.007	0.017	0.008	0.000	0.000	0.000	0.000	0.001
23 Willow Springs Road, Des Plaines River	0.000	0.008	0.010	0.004	0.006	0.005	0.000	0.000	0.000	0.000	0.004
29 Stephen Street, Des Plaines River	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	0.002	0.010	0.013	0.005	0.003	0.005	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.009	0.014	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-103: SOLUBLE CALCIUM MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

**TABLE AII-104: SOLUBLE MAGNESIUM MEAN HISTORY
1996 THROUGH 2006**

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

ND = No Data

TABLE AII-105: SOLUBLE SILVER MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

**TABLE AII-106: SOLUBLE ARSENIC MEAN HISTORY
1996 THROUGH 2006**

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

ND = No Data

**TABLE AII-107: SOLUBLE BARIUM MEAN HISTORY
1996 THROUGH 2006**

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

ND = No Data

TABLE AII-108: SOLUBLE BORON MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-109: SOLUBLE CADMIUM MEAN HISTORY
1996 THROUGH 2006

Sampling Station (No. Name)	Annual Means (mg/L)											
	06	05	04	03	02	01	00	99	98	97	96	
Chicago River System												
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	0.001	0.001	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	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	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	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	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	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	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	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	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	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	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	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	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	0.000	ND	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	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	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	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	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	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	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	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.001	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	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.001	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	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	0.000	ND	0.001	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	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	0.001	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	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	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	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	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.000	0.001	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.001	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	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	0.001	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	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	0.001	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	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	0.000	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-110: SOLUBLE COPPER MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-111: SOLUBLE CHROMIUM MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-112: SOLUBLE IRON MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-113: SOLUBLE LEAD MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-114: SOLUBLE NICKEL MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-115: SOLUBLE MANGANESE MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-116: SOLUBLE MERCURY MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-117: SOLUBLE ZINC MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

TABLE AII-118: SOLUBLE SELENIUM MEAN HISTORY
1996 THROUGH 2006

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

ND = No Data

APPENDIX AIII

SIGNIFICANCE TESTS ON 2006 UPSTREAM AND DOWNSTREAM SAMPLE MEANS
SIGNIFICANCE PROBABILITIES ASSOCIATED WITH APPLICABLE TESTS

TABLE AIII-1: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	0.946	0.987	0.000	...	0.526	...
Temp (°C)	1.000	1.000	0.470	0.225	...	...
pH	0.950	0.978	0.224	0.014	...	...
Alk (mg/L)	0.633	0.988	0.102	...	...	0.003
Cl (mg/L)	0.515	1.000	0.343	0.000	...	...
Turb (NTU)	0.742	0.943	0.057	0.088	...	...
TKN (mg/L)	0.794	0.849	0.006	0.000	...	...
NH ₄ -N (mg/L)	0.663	0.801	0.006	...	...	0.001
NH ₃ -N (mg/L)	1.000	0.644	0.004	...	0.134	...
ORG-N (mg/L)	0.982	0.566	0.021	...	0.001	...
NO ₂ + NO ₃ (mg/L)	0.781	1.000	0.000	0.000	...	...
TS (mg/L)	0.917	1.000	0.427	0.000	...	...
TSS (mg/L)	1.000	0.986	0.300	0.245	...	...
VSS (mg/L)	0.707	0.855	0.411	0.182	...	...
TDS (mg/L)	0.819	0.999	0.466	0.000	...	...
Phenol (µg/L)	0.042	0.013	0.337	...	...	0.770
SO ₄ (mg/L)	0.946	0.992	0.109	0.000	...	...
TP (mg/L)	0.978	0.990	0.000	0.000	...	...
WAD-CN (mg/L)	0.824	0.990	0.260	0.020	...	...
F (mg/L)	0.887	1.000	0.004	0.000	...	...
TOC (mg/L)	0.428	0.862	0.407	0.000	...	...
FC (cfu/100mL)	0.987	0.425	0.002	0.000	...	...
EColi (cfu/100mL)	1.000	1.000	0.073	0.040	...	...
Ca (mg/L)	0.868	0.925	0.092	0.000	...	...
Mg (mg/L)	0.421	0.938	0.058	0.000	...	...
Hard (mg/L)	0.701	0.931	0.073	0.000	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
G.Alpha (pCi/L)	0.998	0.937	0.176	0.080	...	...
G.Beta (pCi/L)	0.974	0.686	0.000	0.000	...	...
Chlrphl ($\mu\text{g/L}$)	0.081	0.264	0.000	...	0.455	...
Bnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.904	0.983	0.187	0.545	...	...
B (mg/L)	0.999	0.862	0.021	0.000	...	...
Cd (mg/L)	0.042	0.006	0.321	...	...	0.889
Cu (mg/L)	0.853	0.926	0.032	...	0.068	...
Cr (mg/L)	0.983	0.862	0.362	0.502	...	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.391	0.030	0.312	...	...	0.385
Fe (mg/L)	0.444	0.977	0.005	...	0.065	...
Pb (mg/L)	0.749	0.906	0.234	0.358	...	...
Ni (mg/L)	0.042	0.013	0.051	0.000	...	...
Mn (mg/L)	0.491	1.000	0.001	...	0.412	...
Hg ($\mu\text{g/L}$)	0.042	0.015	0.230	...	...	0.770
Zn (mg/L)	0.449	0.995	0.445	0.000	...	...
Sol.Ca (mg/L)	0.899	0.844	0.183	0.000	...	...
Sol.Mg (mg/L)	0.996	0.978	0.112	0.000	...	...
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.978	0.294	0.131	...	...
Sol.B (mg/L)	0.990	0.608	0.000	0.000	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol.Cd (mg/L)	0.986	0.792	0.130	0.750	...	...
Sol.Cu (mg/L)	0.042	0.013	0.337	...	...	0.770
Sol.Cr (mg/L)	0.042	0.223	0.035	...	...	0.166
Sol.Fe (mg/L)	0.120	0.911	0.000	...	0.651	...
Sol.Pb (mg/L)	0.862	0.848	0.508	0.871	...	...
Sol.Mn (mg/L)	0.816	1.000	0.007	...	0.870	...
Sol.Zn (mg/L)	1.000	0.639	0.036	0.000	...	...
Sol.Se (mg/L)	0.042	0.014	0.094	...	...	0.683

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

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

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

... = Not appropriate Test.

TABLE AIII-2: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 64 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	1.000	0.965	0.027	...	0.013	...
Temp (°C)	0.999	1.000	0.383	0.678	...	...
pH	0.993	0.892	0.391	0.996	...	...
Alk (mg/L)	0.582	0.992	0.000	...	0.171	...
Cl (mg/L)	0.743	0.740	0.046	...	0.737	...
Turb (NTU)	0.461	1.000	0.001	0.000	...	...
TKN (mg/L)	0.836	1.000	0.013	...	0.448	...
NH ₄ -N (mg/L)	0.936	0.945	0.000	...	0.033	...
NH ₃ -N (mg/L)	0.370	0.989	0.000	...	0.108	...
ORG-N (mg/L)	0.666	0.992	0.036	0.679	...	...
NO ₂ + NO ₃ (mg/L)	1.000	1.000	0.006	0.000	...	...
TS (mg/L)	0.919	0.872	0.150	0.422	...	...
TSS (mg/L)	0.852	0.896	0.213	0.016	...	...
VSS (mg/L)	0.646	0.545	0.333	0.413	...	...
TDS (mg/L)	0.936	0.896	0.143	0.352	...	...
Phenol (µg/L)	0.043	0.007	0.070	...	...	0.345
SO ₄ (mg/L)	0.952	0.470	0.129	0.002	...	...
FOG (mg/L)	-	-	-	-	...	...
TP (mg/L)	0.826	0.851	0.113	0.093	...	...
CN (mg/L)	0.017	0.069	0.040	...	...	0.016
WAD-CN (mg/L)	0.581	1.000	0.255	0.265	...	...
F (mg/L)	0.470	0.991	0.415	0.000	...	...
TOC (mg/L)	0.776	0.998	0.003	...	0.251	...
FC (cfu/100mL)	0.622	1.000	0.005	...	0.003	...
EColi (cfu/100mL)	1.000	1.000	0.250	0.005	...	...
Ca (mg/L)	0.981	0.986	0.253	0.450	...	...

TABLE AIII-2 (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 STICKNEY WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Mg (mg/L)	0.598	0.889	0.224	0.444	...	...
Hard (mg/L)	0.893	0.960	0.241	0.447	...	...
G.Alpha (pCi/L)	0.938	0.865	0.334	0.916	...	...
G.Beta (pCi/L)	0.988	0.876	0.358	0.076	...	...
Chlrphl ($\mu\text{g/L}$)	0.824	0.965	0.297	0.076	...	...
Bzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	0.004	0.004	0.166	...	...	1.000
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.633	0.983	0.486	0.012	...	...
B (mg/L)	1.000	0.988	0.148	0.000	...	...
Cd (mg/L)	0.004	0.004	0.500	1.000	...	...
Cu (mg/L)	0.314	0.554	0.471	0.025	...	...
Cr (mg/L)	0.598	0.619	0.442	0.869	...	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.018	0.016	0.271	...	...	0.944
Fe (mg/L)	0.764	0.966	0.048	0.001	...	...
Pb (mg/L)	0.163	0.784	0.120	0.166	...	...
Ni (mg/L)	0.665	0.933	0.015	...	...	0.002
Mn (mg/L)	0.781	0.054	0.000	0.934	...	...
Hg ($\mu\text{g/L}$)	0.082	0.041	0.421	...	...	0.650
Zn (mg/L)	0.546	0.830	0.061	0.906	...	...
Se (mg/L)	-	-	-	-	...	...
Sol.Ca (mg/L)	0.633	0.497	0.064	0.878	...	...
Sol.Mg (mg/L)	0.631	0.468	0.160	0.978	...	...

TABLE AIII-2 (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 STICKNEY WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H ₀)					
	H ₀ :Normal (U)	H ₀ :Normal (D)	H ₀ : $\sigma_u = \sigma_d$ F	H ₀ : $\mu_u = \mu_d$ Exact T	H ₀ : $\mu_u = \mu_d$ Approx T	H ₀ : $\mu_u = \mu_d$ WilCox T
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	0.997	0.819	0.055	0.038	...	...
Sol.B (mg/L)	0.998	0.949	0.002	...	0.020	...
Sol.Cd (mg/L)	0.845	0.743	0.387	0.694	...	...
Sol.Cr (mg/L)	0.039	0.905	0.032	...	...	0.012
Sol.Fe (mg/L)	0.590	0.415	0.083	0.029	...	...
Sol.Pb (mg/L)	0.999	0.784	0.293	0.868	...	...
Sol.Ni (mg/L)	0.570	0.918	0.296	0.005	...	...
Sol.Mn (mg/L)	1.000	0.969	0.036	...	0.108	...
Sol.Zn (mg/L)	0.999	0.721	0.413	0.309	...	...
Sol.Se (mg/L)	-	-	-	-	...	...

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

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

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

...=Not appropriate Test.

TABLE AIII-3: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 63 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	0.679	0.550	0.001	...	0.011	...
Temp (°C)	0.975	0.816	0.237	0.793	...	...
pH	1.000	1.000	0.083	0.181	...	...
Alk (mg/L)	1.000	0.991	0.453	0.000	...	...
Cl (mg/L)	0.916	0.393	0.013	...	0.074	...
Turb (NTU)	0.993	1.000	0.013	0.000	...	...
TKN (mg/L)	0.994	1.000	0.075	0.107	...	...
NH ₄ -N (mg/L)	1.000	0.877	0.126	0.255	...	...
NH ₃ -N (mg/L)	0.083	1.000	0.000	...	0.350	...
ORG-N (mg/L)	0.948	0.996	0.227	0.204	...	...
NO ₂ + NO ₃ (mg/L)	0.995	1.000	0.086	0.000	...	...
TS (mg/L)	0.991	0.999	0.206	0.007	...	...
TSS (mg/L)	0.941	1.000	0.237	0.001	...	...
VSS (mg/L)	0.751	0.815	0.190	0.825	...	...
TDS (mg/L)	0.989	0.998	0.185	0.004	...	...
Phenol (µg/L)	0.012	0.060	0.047	...	...	0.282
SO ₄ (mg/L)	0.775	1.000	0.215	0.133	...	...
FOG (mg/L)	0.028	0.039	0.356	1.000	...	...
TP (mg/L)	0.664	0.997	0.004	0.000	...	...
CN (mg/L)	0.012	0.568	0.005	...	...	0.025
WAD-CN (mg/L)	0.544	0.788	0.080	0.005	...	...
F (mg/L)	1.000	0.943	0.240	0.000	...	...
TOC (mg/L)	0.997	1.000	0.318	0.071	...	...
FC (cfu/100mL)	1.000	1.000	0.005	0.000	...	...
EColi (cfu/100mL)	1.000	1.000	0.088	0.027	...	...
Ca (mg/L)	0.942	0.898	0.348	0.003	...	...

TABLE AIII-3 (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 CALUMET WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Mg (mg/L)	0.951	0.974	0.397	0.010	...	...
Hard (mg/L)	0.864	0.926	0.367	0.005	...	...
G.Alpha (pCi/L)	1.000	0.997	0.346	0.193	...	...
G.Beta (pCi/L)	1.000	0.991	0.439	0.269	...	...
Chlrphl ($\mu\text{g/L}$)	0.593	0.956	0.000	...	0.164	...
Bzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	0.012	0.025	0.489	...	...	0.660
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.793	1.000	0.008	0.000	...	...
B (mg/L)	0.878	0.595	0.431	0.006	...	...
Cd (mg/L)	0.012	0.012	0.287	...	...	1.000
Cu (mg/L)	0.996	0.860	0.033	...	0.137	...
Cr (mg/L)	0.968	0.978	0.327	0.610	...	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.137	0.137	0.500	1.000	...	...
Fe (mg/L)	0.370	0.781	0.226	0.012	...	...
Pb (mg/L)	0.991	0.674	0.451	1.000	...	...
Ni (mg/L)	0.797	0.030	0.007	...	...	0.588
Mn (mg/L)	0.759	0.176	0.003	...	0.262	...
Hg ($\mu\text{g/L}$)	0.026	0.072	0.427	...	...	0.754
Zn (mg/L)	1.000	0.462	0.001	...	0.022	...
Se (mg/L)	-	-	-	-	...	...
Sol.Ca (mg/L)	0.986	0.949	0.338	0.007	...	...
Sol.Mg (mg/L)	0.999	0.998	0.381	0.016	...	...

TABLE AIII-3 (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 CALUMET WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H ₀)					
	H ₀ :Normal (U)	H ₀ :Normal (D)	H ₀ : $\sigma_u = \sigma_d$ F	H ₀ : $\mu_u = \mu_d$ Exact T	H ₀ : $\mu_u = \mu_d$ Approx T	H ₀ : $\mu_u = \mu_d$ WilCox T
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.984	0.049	0.000	...	...
Sol.B (mg/L)	0.950	1.000	0.445	0.003	...	...
Sol.Cd (mg/L)	0.369	0.704	0.302	0.789	...	...
Sol.Cr (mg/L)	0.025	0.505	0.287	...	...	0.135
Sol.Fe (mg/L)	0.972	0.712	0.074	0.000	...	...
Sol.Pb (mg/L)	0.969	0.816	0.332	...	...	0.197
Sol.Mn (mg/L)	0.418	0.887	0.398	0.008	...	...
Sol.Zn (mg/L)	1.000	0.966	0.230	0.001	...	...
Sol.Se (mg/L)	0.025	0.057	0.329	...	...	0.651

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

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

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

...=Not appropriate Test.

TABLE AIII-4: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.935	0.948	0.007	...	0.994	...
Temp (°C)	1.000	0.996	0.252	0.207	...	...
pH	1.000	0.990	0.063	0.005	...	...
Alk (mg/L)	0.892	0.998	0.019	...	0.309	...
Cl (mg/L)	0.999	0.822	0.240	0.913	...	...
Turb (NTU)	0.686	0.947	0.000	...	0.026	...
TKN (mg/L)	0.897	0.934	0.379	0.473	...	...
NH ₄ -N (mg/L)	0.974	0.998	0.165	0.936	...	...
NH ₃ -N (mg/L)	1.000	0.549	0.256	0.022	...	...
ORG-N (mg/L)	0.998	1.000	0.372	0.469	...	...
NO ₂ + NO ₃ (mg/L)	0.999	1.000	0.000	0.000	...	...
TS (mg/L)	0.991	0.947	0.507	0.886	...	...
TSS (mg/L)	0.882	0.972	0.000	...	0.033	...
VSS (mg/L)	0.933	0.998	0.004	...	0.083	...
TDS (mg/L)	0.943	0.943	0.480	0.965	...	...
Phenol (µg/L)	0.042	0.013	0.334	...	...	0.861
SO ₄ (mg/L)	0.856	0.998	0.064	0.808	...	...
TP (mg/L)	1.000	0.946	0.000	0.000	...	...
WAD-CN (mg/L)	0.930	0.999	0.502	0.300	...	...
F (mg/L)	1.000	1.000	0.000	0.000	...	...
TOC (mg/L)	0.616	0.666	0.050	0.051	...	...
FC (cfu/100mL)	0.996	1.000	0.269	0.227	...	...
EColi (cfu/100mL)	1.000	1.000	0.526	0.037	...	...
Ca (mg/L)	0.947	1.000	0.135	0.853	...	...
Mg (mg/L)	0.964	1.000	0.062	0.642	...	...
Hard (mg/L)	0.977	1.000	0.095	...	...	0.915

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
G.Alpha (pCi/L)	0.985	0.530	0.123	0.595	...	...
G.Beta (pCi/L)	0.995	0.859	0.159	0.026	...	...
Chlrphl ($\mu\text{g/L}$)	0.987	0.695	0.101	0.010	...	...
Bnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.968	0.982	0.017	...	0.007	...
B (mg/L)	0.952	0.965	0.001	0.001	...	...
Cu (mg/L)	0.141	1.000	0.108	0.078	...	...
Cr (mg/L)	0.839	0.946	0.014	...	0.031	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.214	0.006	0.014	...	...	0.161
Fe (mg/L)	0.420	0.979	0.000	...	0.030	...
Pb (mg/L)	1.000	0.958	0.150	0.458	...	...
Ni (mg/L)	0.766	0.030	0.009	...	...	0.741
Mn (mg/L)	0.888	0.954	0.125	0.001	...	...
Hg- (ng/L)	0.236	1.000	0.000	...	0.194	...
Zn (mg/L)	0.943	1.000	0.032	...	0.015	...
Se (mg/L)	0.042	0.006	0.000	...	...	0.834
Sol.Ca (mg/L)	0.804	0.999	0.057	0.858	...	...
Sol.Mg (mg/L)	0.979	1.000	0.022	...	0.757	...
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	0.908	0.698	0.118	0.045	...	...
Sol.B (mg/L)	0.964	1.000	0.001	0.001	...	...

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol.Cd (mg/L)	0.231	0.186	0.281	0.991	...	...
Sol.Cr (mg/L)	0.417	0.235	0.281	0.941	...	...
Sol.Fe (mg/L)	0.886	0.948	0.432	0.118	...	...
Sol.Pb (mg/L)	1.000	0.983	0.480	0.811	...	...
Sol.Ni (mg/L)	0.090	0.033	0.285	...	...	0.848
Sol.Mn (mg/L)	0.579	0.185	0.012	...	0.387	...
Sol.Zn (mg/L)	1.000	1.000	0.005	0.000	...	...
Sol.Se (mg/L)	0.042	0.006	0.321	...	...	0.889

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

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

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

...=Not appropriate Test.

TABLE AIII-5: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 58 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	0.999	0.999	0.011	...	0.486	...
Temp (°C)	1.000	0.876	0.161	0.376	...	...
pH	1.000	0.952	0.074	0.505	...	...
Alk (mg/L)	0.950	1.000	0.115	0.005	...	...
Cl (mg/L)	0.713	0.568	0.000	...	0.228	...
Turb (NTU)	0.960	0.919	0.000	...	0.007	...
TKN (mg/L)	1.000	0.973	0.008	...	0.005	...
NH ₄ -N (mg/L)	0.867	0.800	0.076	0.081	...	...
NH ₃ -N (mg/L)	0.979	0.999	0.055	0.054	...	...
ORG-N (mg/L)	0.996	0.997	0.079	0.039	...	...
NO ₂ + NO ₃ (mg/L)	1.000	0.996	0.000	0.000	...	...
TS (mg/L)	0.711	0.849	0.000	...	0.356	...
TSS (mg/L)	0.978	0.312	0.000	...	0.043	...
VSS (mg/L)	0.762	0.530	0.006	...	0.027	...
TDS (mg/L)	0.749	0.865	0.000	...	0.402	...
Phenol (µg/L)	0.673	0.040	0.234	...	...	0.411
SO ₄ (mg/L)	1.000	0.986	0.223	0.000	...	...
TP (mg/L)	0.707	0.225	0.000	...	0.004	...
CN (mg/L)	0.483	0.221	0.000	...	0.688	...
WAD-CN (mg/L)	1.000	0.984	0.429	0.822	...	...
F (mg/L)	0.859	1.000	0.009	0.000	...	...
TOC (mg/L)	1.000	0.971	0.206	0.355	...	...
FC (cfu/100mL)	1.000	0.713	0.025	...	0.014	...
EColi (cfu/100mL)	1.000	1.000	0.032	...	0.297	...
Ca (mg/L)	1.000	1.000	0.031	...	0.122	...
Mg (mg/L)	1.000	1.000	0.036	...	0.093	...

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 58 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Hard (mg/L)	1.000	1.000	0.034	...	0.108	...
G.Alpha (pCi/L)	0.999	1.000	0.001	...	0.156	...
G.Beta (pCi/L)	0.900	1.000	0.466	0.053	...	...
Chlrphl (μ g/L)	1.000	0.863	0.000	...	0.006	...
Ag (mg/L)	-	-	-	-	...	...
As (mg/L)	0.145	0.006	0.509	...	...	0.812
Ba (mg/L)	0.991	0.919	0.000	...	0.006	...
B (mg/L)	0.999	0.979	0.140	0.000	...	...
Cd (mg/L)	-	-	-	-	...	...
Cu (mg/L)	0.996	0.238	0.020	...	0.029	...
Cr (mg/L)	0.994	1.000	0.000	...	0.100	...
Cr ⁺⁶ (μ g/L)	0.329	0.016	0.463	...	...	0.635
Fe (mg/L)	0.999	0.253	0.000	...	0.009	...
Pb (mg/L)	0.940	0.746	0.374	0.004	...	...
Ni (mg/L)	0.871	0.780	0.063	0.000	...	...
Mn (mg/L)	1.000	1.000	0.000	...	0.003	...
Hg- (ng/L)	0.691	0.900	0.000	...	0.036	...
Zn (mg/L)	0.976	0.993	0.057	0.329	...	...
Sol.Ca (mg/L)	1.000	0.989	0.030	...	0.181	...
Sol.Mg (mg/L)	1.000	0.994	0.058	0.043	...	...
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.971	0.000	...	0.021	...
Sol.B (mg/L)	0.834	0.993	0.167	0.000	...	...
Sol.Cd (mg/L)	0.763	0.731	0.311	0.959	...	...
Sol.Cu (mg/L)	0.639	0.014	0.216	...	...	0.274

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 58 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2006

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol.Cr (mg/L)	0.654	0.905	0.000	...	0.311	...
Sol.Fe (mg/L)	0.794	0.838	0.001	...	0.811	...
Sol.Pb (mg/L)	0.998	0.955	0.293	0.632	...	...
Sol.Mn (mg/L)	0.998	1.000	0.001	...	0.055	...
Sol.Zn (mg/L)	0.503	1.000	0.285	0.000	...	...
Sol.Se (mg/L)	-	-	-	-	...	...

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

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

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

...=Not appropriate Test.