

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 03-14

2002 ANNUAL SUMMARY REPORT

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

July 2003

Metropolitan Water Reclamation District of Greater Chicago

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2002 ANNUAL SUMMARY REPORT
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

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Carbonaceous Biochemical-Oxygen Demand	AII-1		AII-45
Chemical Oxygen Demand			AII-46
Dissolved Oxygen	AII-1	AII-14	AII-47
Temperature	AII-1	AII-15	AII-48
pH	AII-1	AII-16	AII-49
Alkalinity (Total)	AII-2		AII-50
Chloride	AII-2	AII-17	AII-51
Turbidity	AII-2		AII-52
Electrical Conductivity			AII-53
Total Kjeldahl Nitrogen	AII-2		AII-54
Ammonium Nitrogen	AII-2	AII-18	AII-55
Un-ionized Ammonia	AII-3	AII-19	AII-56
Organic Nitrogen	AII-3		AII-57
Nitrite Plus Nitrate Nitrogen	AII-3		AII-58
Total Solids	AII-3		AII-59
Total Volatile Solids			AII-60
Total Suspended Solids	AII-3		AII-61
Volatile Suspended Solids	AII-4		AII-62
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Parameter	Sample Means during 2002	Violation History through 2002	Mean History through 2002
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Total Phosphorus	AII-5		AII-68
Soluble Phosphorus			AII-69
Total Cyanide	AII-5	AII-24	AII-70
Weak Acid Dissociable Cyanide	AII-5	AII-25	AII-71
Fluoride	AII-5	AII-26	AII-72
Total Organic Carbon	AII-5		AII-73
Fecal Coliform	AII-6	AII-27	AII-74
Escherichia Coli	AII-6		AII-75
Total Calcium	AII-6		AII-76
Soluble Calcium	AII-6		AII-77
Total Magnesium	AII-6		AII-78
Soluble Magnesium	AII-7		AII-79
Hardness	AII-7		AII-80
Gross Alpha Radioactivity	AII-7		AII-81
Gross Beta Radioactivity	AII-7	AII-28	AII-82
Chlorophyll a	AII-7		AII-83
Total Silver	AII-8	AII-29	AII-84
Soluble Silver	AII-8		AII-85
Total Arsenic	AII-8	AII-30	AII-86
Soluble Arsenic	AII-8		AII-87
Total Barium	AII-8	AII-31	AII-88
Soluble Barium	AII-9		AII-89
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Soluble Boron	AII-9		AII-91

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TABLE LOCATOR IN APPENDIX AII - BY PARAMETER (Continued)

Parameter	Sample Means during 2002	Violation History through 2002	Mean History through 2002
	Page	Page	Page
Total Cadmium	AII-9	AII-33	AII-92
Soluble Cadmium	AII-9		AII-93
Total Copper	AII-10	AII-34	AII-94
Soluble Copper	AII-10		AII-95
Total Chromium	AII-10	AII-35	AII-96
Soluble Chromium	AII-10		AII-97
Total Hexavalent Chromium	AII-10		AII-98
Total Iron	AII-11	AII-36	AII-99
Soluble Iron	AII-11	AII-37	AII-100
Total Lead	AII-11	AII-38	AII-101
Soluble Lead	AII-11		AII-102
Total Nickel	AII-11	AII-39	AII-103
Soluble Nickel	AII-12		AII-104
Total Manganese	AII-12	AII-40	AII-105
Soluble Manganese	AII-12		AII-106
Total Mercury	AII-12	AII-41	AII-107
Soluble Mercury	AII-12		AII-108
Total Zinc	AII-13	AII-42	AII-109
Soluble Zinc	AII-13		AII-110
Total Selenium	AII-13	AII-43	AII-111
Soluble Selenium	AII-13		AII-112

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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 Illinois Pollution Control Board (IPCB) water quality standards for the year 2002. In addition, the District compared these data with data for 2001.

Compliance with Water Quality Standards During 2002

GENERAL USE WATERS

Twenty-eight water quality parameters assayed had applicable IPCB 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 DuPage River System, and the Fox River System (Poplar Creek). Seventeen water quality parameters were in total compliance with the standards in all river systems. They were temperature, ammonium nitrogen, un-ionized ammonia, phenols, weak acid dissociable (WAD) cyanide, gross beta radioactivity, and 11 metals (total arsenic, total barium, total boron, total cadmium, total chromium [trivalent and hexavalent], soluble iron, total lead, total nickel, total mercury, total zinc, and total selenium).

Seven of the remaining 11 parameters, viz., dissolved oxygen, pH, chloride, sulfate, total silver, total copper, and total manganese had compliance rates of greater than 85.1 percent in all river systems. Total dissolved solids had a compliance rate greater than 74.0 percent in all river systems. Fecal coliform had the lowest compliance rate, and it was in the range of 37.9 to 64.1 percent in the Chicago, Calumet, and the Des Plaines River Systems. Fluoride was in total compliance in the Chicago and the Des Plaines River Systems, and it had a compliance rate of 75.0 percent in the Calumet River System. The compliance rates of total iron were 94.1, 77.7, and 79.4 percent in the Chicago, Calumet, and Des Plaines River Systems, respectively.

A comparison of 2002 data with 2001 data indicated that there was no significant difference between 2001 and 2002 compliance rates except for dissolved oxygen, fecal coliform, total silver, total copper, and total iron. The compliance rates for all of these parameters significantly decreased in 2002 except for total iron and fecal coliform, which significantly increased in 2002. In the Chicago River System, the compliance rate of fecal coliform increased from 26.3 percent in 2001 to 37.9 percent in 2002. The compliance rate of total iron also increased from 71.3 percent in 2001 to 84.1 percent

in 2002. The compliance rate of total silver decreased from 98.5 percent in 2001 to 92.9 percent in 2002. The compliance rate of total copper also decreased from 98.5 percent in 2001 to 93.2 percent in 2002. In the Calumet River System, the compliance rate of total silver decreased from total compliance in 2001 to 87.5 percent in 2002. In the Des Plaines River System, the compliance rate of total iron increased from 61.8 percent in 2001 to 79.4 percent in 2002. The compliance rate of dissolved oxygen decreased from 97.8 percent in 2001 to 92.3 percent in 2002. The compliance rate of total silver also decreased from 99.3 percent in 2001 to 95.9 percent in 2002.

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 the Calumet River Systems. Twenty-three water quality parameters measured in the secondary contact waters during 2002 had applicable IPCB standards.

Twenty parameters were in complete compliance with the IPCB standards for the Chicago and the Calumet River Systems in 2002. They were temperature; pH; total dissolved solids; phenols; fats, oils and greases; total cyanide; fluoride; and 13 metals (total

silver, total arsenic, total barium, total cadmium, total copper, total chromium, soluble iron, total lead, total nickel, total manganese, total mercury, total zinc, and total selenium).

The percent compliance of the remaining 3 parameters (dissolved oxygen, un-ionized ammonia, and total iron), which were not in total compliance in both the river systems varied from 89.4 to 99.5 percent.

A comparison of 2002 data with 2001 data indicated that there was no significant difference between the 2001 and 2002 compliance rates in both river systems except for fats, oils, and greases in the Chicago River System. The compliance rate of fats, oils, and greases had significantly increased from 97.8 percent in 2001 to total compliance in 2002.

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 2001. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2002.

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 man-made water courses are: the North Shore Channel, connecting Lake Michigan at Wilmette to the North Branch of the Chicago River; the Chicago Sanitary and Ship Canal (Main Channel), extending from Damen Avenue to the Lockport Powerhouse; and the Calumet-Sag Channel, connecting the Little Calumet River with the Main Channel.

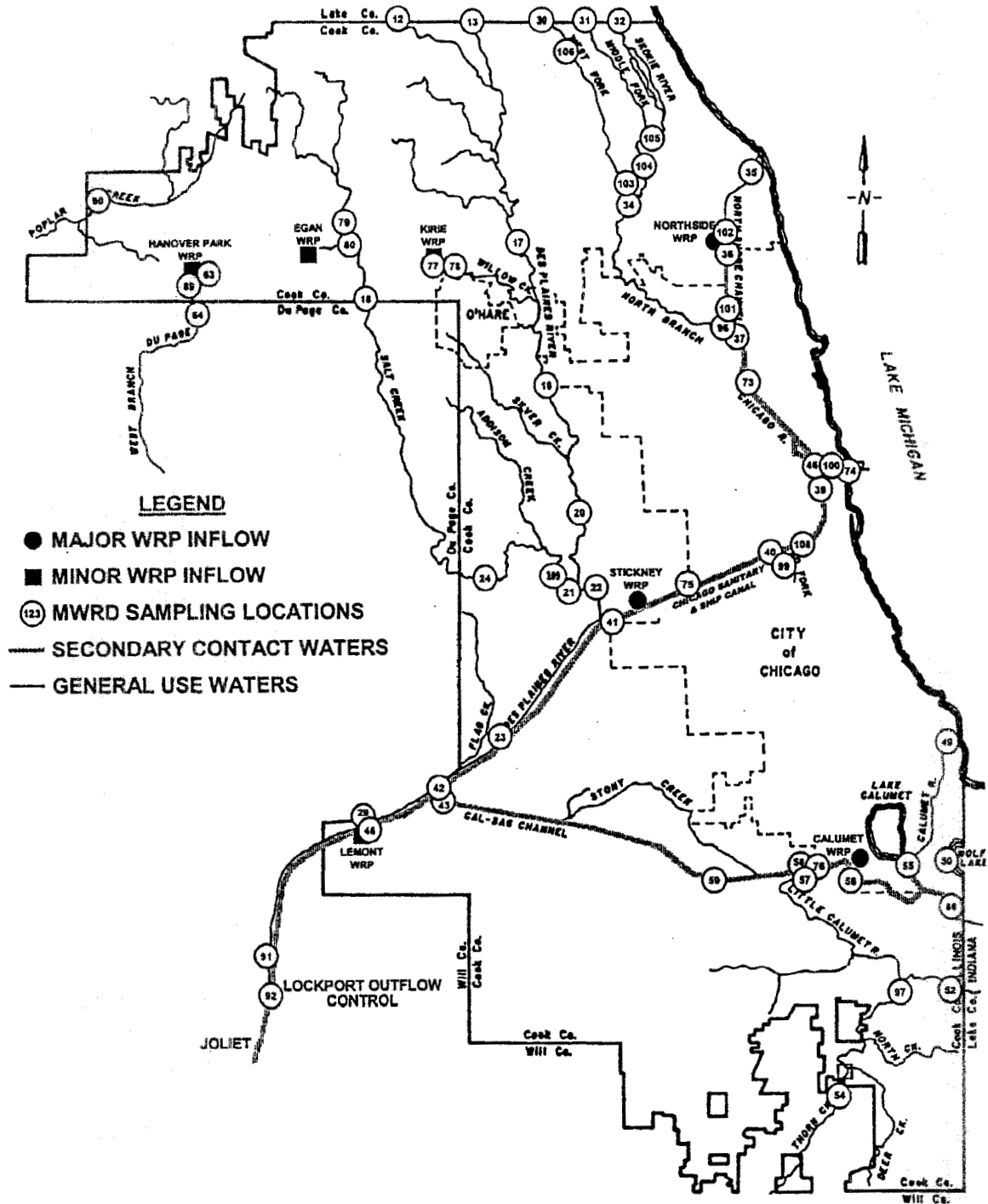
The functions of the canal system are to:

- Provide navigational facilities for boats and barges.
- Serve as receiving waters from 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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 1

WATERWAYS SERVICE AREA AND SAMPLING LOCATION POINTS



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 specifies 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 man-made 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.
- 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 network is shown in Appendix AI. Water quality parameters assayed in 2002 and sampling stations are listed in Tables AI-1 and AI-2, respectively. Some locations have been added and some were discontinued in

2002. Table AI-3 is thus provided to show a complete list of locations sampled in 2001 and 2002.

Summary water quality results for 2002 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-31. Note that Tables AII-2 through AII-31 list the sampling locations where violations occurred during 2002 and their eight-year history.

In comparing data from a historical perspective, it is often desirable to view summary data from past years together with data from the current year. Tables AII-32 through AII-100 (Appendix II) were designed to present the mean values of various parameters for 1992 through 2001, with the 2002 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 2002 as shown in Figure 1. This includes one additional sampling station which was added in 2002. This new location is 109 at Brookfield Avenue, Salt Creek, 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 2002 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 inactive. 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 2001. Sampling at the Lockport Powerhouse was replaced by collecting weekly grab samples at location 92 (Lockport Forebay) in 2001.

Locations sampled in the respective river systems during 2002 are shown without an asterisk in Table AI-2 of Appendix AI.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 1

WATERWAYS (BRIDGE RUNS) TOTAL NUMBER OF SAMPLES
COLLECTED MONTHLY DURING 2002

Month	Chicago River System	Calumet River System	Des Plaines River System
January	25	20	14
February	28	20	16
March	29	20	15
April	30	20	19
May	28	19	18
June	28	20	16
July	28	20	17
August	29	20	19
September	28	19	19
October	29	12	18
November	28	12	16
December	23	10	14

Twenty-six sites were sampled in the Chicago River System, 13 in the Calumet, and 20 in the Des Plaines River System (including 3 locations in the DuPage and Fox River Systems). The waterways system sampling location points correspond to the map numbers shown in Figure 1. The complete waterways sampling stations directory of all 105 stations, of which the 59 sampling locations in 2002 are a subset, are listed in Table AI-2, Appendix A-1.

Water Assays and Water Quality Criteria

The District's laboratories performed 64 types of analyses on water samples taken in District waterways during 2002. A list of 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 numbers 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. However for the purpose of this report, the old standards are used to assess 2002 compliance rates. The 2003 report will incorporate the new standards.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Five-day Biochemical Oxygen Demand</u>	No standard		
<u>Five-day Carbonaceous Biochemical Oxygen Demand</u>	No standard		
<u>Dissolved Oxygen</u>			
General Use Waters ³	6.0 mg/L ⁴ 5.0 mg/L ^{4,5}	302.206 302.206	04/16/72 04/16/72
Secondary Contact Waters ⁶	5.0 mg/L ^{4,5} 4.0 mg/L ^{4,5} 3.0 mg/L ^{5,7}	303.441(j) 302.405 302.405	04/16/72 01/01/78 05/19/88
<u>Temperature</u>			
General Use Waters ³	32°C, Apr. - Nov. ¹⁰ 16°C, Dec. - Mar. ¹⁰	302.211 302.211	04/16/72 04/16/72
Secondary Contact Waters ⁶	34°C ¹¹ 37.8°C ¹¹ (37.8°C) ⁵	302.408 302.408	04/16/72 04/16/72
<u>pH</u>			
General Use Waters ³	6.5-9.0	302.204	04/16/72

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
Secondary Contact waters ⁶	6.0-9.0	302.404	04/16/72
<u>Alkalinity</u>	No standard		
<u>Chloride</u>			
General Use Waters ³	500 mg/L	302.208	04/16/72
Secondary Contact Waters	No standard		
<u>Turbidity</u>	No standard		
<u>Total Kjeldahl Nitrogen</u>	No standard		
<u>Ammonia Nitrogen</u>			
General Use Waters ³	15 mg/L	302.212	12/19/96
Secondary Contact Waters ⁶	No standard		
<u>Un-ionized Ammonia</u>			
General Use Waters ³	0.33 mg/L (Apr. - Oct.) 0.14 mg/L (Nov. - Mar.)	302.212	12/19/96

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
Secondary Contact waters ⁶	0.1 mg/L		
<u>Organic Nitrogen</u>	No standard		
<u>Nitrate plus Nitrate Nitrogen</u>	No standard		
<u>Total Solids</u>	No standard		
<u>Total Suspended Solids</u>	No standard		
<u>Volatile Suspended Solids</u>	No standard		
<u>Total Dissolved Solids</u>			
General Use Waters ³	1,000 mg/L	302.208	04/16/72
Secondary Contact Waters ⁶	1,500 mg/L	302.407	06/21/79
<u>Phenols</u>			
General Use Waters ³	0.1 mg/L	302.208	04/16/72
Secondary Contact Waters ⁶	0.3 mg/L	302.407	05/24/79

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Sulfate</u>			
General Use Waters ³	500 mg/L	302.208	04/16/72
Secondary Contact Waters ⁵	No standard		
<u>Fats, Oils, and Greases</u>			
General Use Waters ³	No standard		
Secondary Contact Waters ⁶	15.0 mg/L ¹²	302.407	05/24/79
<u>Total Phosphorus</u>	No standard		
<u>Total Cyanide</u>			
General Use Waters ^{3,5}	0.025 mg/L	302.208	04/16/72
	No standard		02/01/96
Secondary Contact Waters ⁵	0.1 mg/L	302.407	09/07/78
<u>WAD Cyanide</u>			
General Use Waters ^{3,5}	0.022 mg/L (weak acid dissociable)	302.208	02/01/96

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
Secondary Contact Waters ⁶	No standard		
<u>Fluoride</u>			
General Use Waters ³	1.4 mg/L	302.208	04/16/72
Secondary Contact Waters ⁶	15.0 mg/L	302.407	05/24/79
<u>Total Organic Carbon</u>			
No standard			
<u>Fecal Coliform Indicator⁸</u>			
General Use Waters ³	200 counts/100 ml ⁹	302.209	04/16/72
	400 counts/100 ml ⁹	302.209	04/16/72
	(400 counts/100 ml) ⁵		
Secondary Contact Waters ⁶	No standard		
<u>Escherichia Coli</u>			
No standard			
<u>Total Calcium</u>			
No standard			
<u>Soluble Calcium</u>			
No standard			

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Total Magnesium</u>	No standard		
<u>Soluble Magnesium</u>	No standard		
<u>Hardness</u>	No standard		
<u>Gross Alpha Radioactivity</u>	No standard		
<u>Gross Beta Radioactivity</u>			
General Use Waters ³	100 picocuries/L	302.207	04/16/72
Secondary Contact Waters ⁶	No standard		
<u>Chlorophyll a</u>	No standard		
<u>Total Silver</u>			
General Use Waters ³	0.005 mg/L	302.208	04/16/72
Secondary Contact Waters ⁶	1.1 mg/L	302.407	05/24/79
<u>Soluble Silver</u>	No standard		

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Total Arsenic</u>			
General Use Waters ³	1.0 mg/L 0.36 mg/L	302.208	05/24/79 02/04/90
Secondary Contact Waters ⁶	1.0 mg/L	302.407	05/24/79
<u>Soluble Arsenic</u>	No standard		
<u>Total Barium</u>			
General Use Waters ³	5.0 mg/L	302.208	04/16/72
Secondary Contact Waters ³	5.0 mg/L	302.407	05/24/79
<u>Soluble Barium</u>	No standard		
<u>Total Boron</u>			
General Use Waters	1.0 mg/L		
Secondary Contact Waters	No standard		
<u>Soluble Boron</u>	No standard		
<u>Total Cadmium</u>			

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
General Use Waters ³	0.05 mg/L note ¹⁴	302.208	04/16/72 02/04/90
Secondary Contact Waters ⁵	0.15 mg/L	302.407	05/24/79
<u>Soluble Cadmium</u>	No standard		
<u>Total Copper</u>			
General Use Waters ³	0.02 mg/L note ¹⁵	302.208	04/16/72 02/04/90
Secondary Contact Waters ⁵	1.0 mg/L	302.407	05/24/79
<u>Soluble Copper</u>	No standard		
<u>Total Chromium (Hexavalent and Trivalent)</u>			
General Use Waters ³	1.0 mg/L ⁵ note ¹⁶	302.208	04/16/72 02/04/90
Second Contact Waters ⁶	1.0 mg/L ⁵	302.407	05/24/79
<u>Soluble Chromium</u>	No standard		

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Chromium (Total Hexavalent)¹³</u>			
General Use Waters ³	0.05 mg/L	302.208	04/16/72
	0.016 mg/L		02/04/90
Secondary Contact Waters ⁶	0.3 mg/L	302.407	05/24/79
<u>Total Iron</u>			
General Use Waters ³	1.0 mg/L	302.208	04/16/72
	No standard		08/01/93
Secondary Contact Waters ⁶	2.0 mg/L	302.407	05/24/79
<u>Soluble Iron</u>			
General Use Waters ³	1.0 mg/L	302.208	08/01/93
Secondary Contact Waters ⁶	0.5 mg/L	302.407	05/24/79
<u>Total Lead</u>			
General Use Waters ³	0.1 mg/L note ¹⁷ note ¹⁸	302.208	04/16/72
			02/04/90
			05/16/96
Secondary Contact Waters ⁶	0.1 mg/L	302.407	05/24/79

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Soluble Lead</u>	No standard		
<u>Total Nickel</u>			
General Use Waters ³	1.0 mg/L	302.208	04/16/72
Secondary Con- Waters ⁶	1.0 mg/L	302.407	05/24/79
<u>Soluble Nickel</u>	No standard		
<u>Total Maganese</u>			
General Use Waters ³	1.0 mg/L	302.208	05/24/79
Secondary Con- tact Waters ⁶	1.0 mg/L	302.407	05/24/79
<u>Soluble Manganese</u>	No standard		
<u>Total Mercury</u>			
General Use Waters ³	0.0005 mg/L 0.0026 mg/L	302.208	04/25/71 05/16/96
Secondary Con- tact Waters ⁶	0.0005 mg/L	302.407	05/24/79
<u>Soluble Mercury</u>	No standard		

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
<u>Total Zinc</u>			
General Use Waters ²	1.0 mg/L	302.208	04/16/72
Secondary Contact Waters ³	1.0 mg/L	302.407	05/24/79
<u>Soluble Zinc</u>	No standard		
<u>Total Selenium</u>			
General Use Waters ³	1.0 mg/L	302.208	04/16/72
Secondary Contact Waters ⁶	1.0 mg/L	302.407	05/24/79
<u>Soluble Selenium</u>	No standard		

¹Water Quality Standards from "State of Illinois Rules and Regulations," Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board, January 14, 2000.

²Section number from 1 above.

³General Use Waters Designations, defined in Section 303.201 from 1 above. See Figure 1, for delineation.

⁴The upper value is the standard which must be equaled or exceeded for 16 hours/day and the lower value must be equaled or exceeded at all times.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
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⁵Water quality standard as interpreted by the District. Due to such factors as infrequent sampling, type of assay, etc., strict adherence to IPCB requirements was not possible (see text).

⁶Secondary Contact and Indigenous Aquatic Life Waters Use Designation, defined in Section 303.441 from 1 above. See Figure 1, for delineation.

⁷Cal-Sag Channel only.

⁸Repealed, October 26, 1982, for both General Use and Secondary Contact. However, because of legal difficulties, the indicated standards were in effect for General Use Waters in 1992.

⁹The geometric mean of at least five samples taken over a period not exceeding 30 days shall not exceed the upper values. Not more than 10 percent of the samples taken during any 30-day period shall exceed the lower value.

¹⁰The upper value cannot be exceeded during more than 1 percent of the hours in the preceding 12-month period. The lower value cannot be exceeded at any time.

¹¹The upper value cannot be exceeded more than 5 percent of the time, and the lower value cannot be exceeded at any time.

¹²Oil may be analytically separated into polar and nonpolar components. If such separation is done, neither of the components may exceed 15 mg/L (i.e., 15 mg/L polar materials and 15 mg/L nonpolar materials). Compliance with this numerical standard shall be determined on the basis of 24-hour composite samples, averaged over any monthly period, provided that no single 24-hour composite shall be greater than twice the numerical standard and no grab sample shall be greater than five times the numerical standard.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARDS¹

ASSAYS	STATE STANDARDS	SECTION ²	EFFECTIVE DATE
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¹³This water quality parameter was not assayed by the District, but is included in order to show the basis for interpreting a standard for: total chromium (hexavalent and trivalent).

¹⁴Cadmium = $\min(0.05, \exp(-2.918 + 1.128\ln[H]))$.

¹⁵Copper = $\exp(-1.464 + 0.9422\ln[H])$.

¹⁶Total Chromium = $\exp(3.688 + 0.8190\ln[H])$.

¹⁷Lead = $\min(0.1, \exp(-1.464 + 1.273\ln[H]))$.

¹⁸Lead = $\exp(-1.301 + 1.273\ln[H])$: Where, Hardness, mg equivalent CaCO_3/L $[H] = 2.497(\text{Ca, mg/L}) + 4.118(\text{Mg, mg/L})$.

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 five water quality parameters (dissolved oxygen [DO], fecal coliform, temperature, total chromium, and dissolved iron) with standards 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 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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 3

ILLINOIS POLLUTION CONTROL BOARD WATER QUALITY STANDARDS
AND CORRESPONDING DISTRICT'S INTERPRETATION

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
	≥ 5.0 mg/L anytime	
Secondary Contact Waters	≥ 5.0 mg/L at least 16 hours/day	≥ 4.0 mg/L anytime
Secondary Contact Waters	≥ 4.0 mg/L anytime	
(North Shore Channel)	≥ 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. Fecal Coliform		
General Use Waters	Based on a minimum of five samples in a 30-day period: geometric mean < 200 counts/100 ml; < 400 counts/100 ml in 90% of the samples	≤ 400 counts/ 100 ml anytime

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 3 (Continued)

ILLINOIS POLLUTION CONTROL BOARD WATER QUALITY STANDARDS
AND CORRESPONDING DISTRICT'S INTERPRETATION

Water Use Designation	IPCB Standard	District Interpreted Standard
3. Temperature		
Secondary Contact Waters	<34°C, 95% of the time; <37.8°C, 100% of the time	<37.8°C anytime
4. Total Chromium (Hexavalent and Trivalent)		
General Use Waters	Chromium (total hexa- valent) ≤ 0.016 mg/L Chromium (total tri- valent), see foot- note 16, <u>Table 2</u>	≤ 1.0 mg/L anytime ≤ 1.0 mg/L anytime
Secondary Contact Waters	Chromium (total hexa- valent) ≤ 0.3 mg/L	≤ 1.0 mg/L anytime
	Chromium (total tri- valent) ≤ 1.0 mg/L	≤ 1.0 mg/L anytime

not possible. In view of this, the District interprets the IPCB standard limitation of 400 counts/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 of this metal. The District does not differentiate between oxidation states when assaying for chromium because of the highly reactive nature of the hexavalent chromium, but reports the results as total chromium (trivalent and hexavalent), and interprets the IPCB standards such that the numerical limits for trivalent chromium are applied as total chromium numerical limits. For General Use Waters, the limit for total chromium was revised in 1991. For the purpose of this report, the new limit is calculated as the quantity $\exp(3.688 + 0.8190 \ln[\text{hardness}])$ expressed in mg/L. Before 1990, the limit was 1.0 mg/L, which is also the current applicable limit for Secondary Contact Waters.

The IPCB dropped the water quality standard of 1.0 mg/L for total iron in General Use Waters in 1993, and introduced a standard of 1.0 mg/L for dissolved iron. As for Secondary Contact Waters, both total iron and dissolved iron have pertinent water quality standards of 2.0 mg/L and 0.5 mg/L, respectively.

In addition, it should be noted that in 1996 the General Use standard for cyanide was changed from total cyanide to WAD cyanide. Thus, beginning with the 1996 report, compliance determinations are made in terms of WAD 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 2002 is shown in Table 4. Of the five river systems sampled during 2002, three (Des Plaines, DuPage, and Fox) lie entirely within the General Use classification. The General Use Waters in the Chicago and Calumet River Systems comprise the streams which 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, only one station (Station 90) is considered as General Use. Similarly, in the DuPage River System, data from three sampling locations are considered as General Use; 100 feet upstream (Station 63 not sampled in 2002), 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 DuPage River (Station 64). The frequency of sampling during 2002 was once per month at most locations. Table 4 shows the frequency of sampling at all General Use locations in 2002.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 4

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF
GENERAL USE WATERS IN 2002

Map No ¹ Station Name	Annual No. of Samples
<u>Chicago River System</u>	
106 Dundee Road, West Fork North Branch Chicago River	6
103 Golf Road, West Fork North Branch Chicago River	11
31 Lake-Cook Road, Middle Fork North Branch	10
104 Glenview Road, North Branch Chicago River	9
32 Lake-Cook Road, Skokie River	10
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	11
74 Lake Shore Drive, Chicago River	12
100 Wells Street, Chicago River	12
	<u>126</u>
<u>Calumet River System</u>	
49 Ewing Avenue, Calumet River	21
50 Burnham Avenue, Wolf Lake	12
55 130th Street, Calumet River	21
52 Wentworth Avenue, Little Calumet River	11
54 Joe Orr Road, Thorn Creek	7
97 170th Street, Thorn Creek	12
57 Ashland Avenue, Little Calumet River	12
	<u>96</u>
<u>Des Plaines River System</u>	
79 Higgins Road, Salt Creek	8
80 Arlington Heights Road, Salt Creek	10
18 Devon Avenue, Salt Creek	10
24 Wolf Road, Salt Creek	12
109 Brookfield Avenue, Salt Creek	6
21 First Avenue, Salt Creek	4
77 Elmhurst Road, Higgins Creek	6
78 Wille Road, Higgins Creek	12

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 4 (Continued)

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF
GENERAL USE WATERS IN 2002

Map No ¹ Station Name	Annual No. of Samples
<u>Des Plaines River System</u>	
12 Lake-Cook Road, Buffalo Creek	7
13 Lake-Cook Road, Des Plaines River	12
17 Oakton Steet, Des Plaines River	11
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	10
29 Stephen Street, Des Plaines River	12
91 Material Service Road, Des Plaines River	<u>12</u>
	168
<u>DuPage River System</u>	
89 Walnut Lane, West Branch DuPage River	12
64 Lake Street, West Branch DuPage River	<u>12</u>
	24
<u>Fox River System</u>	
90 Route 19, Poplar Creek	<u>9</u>
	9

¹Refer to Figure 1.

River System Compliance Data

In the General Use Waters sampled during 2002, 28 parameters were covered by the State of Illinois Water Quality Standards. Summary results, including means, number of observations, and number of violations of standards are shown in Appendix AII at each sampling station of each of the three river systems.

The 17 parameters which were in 100 percent compliance in all river systems were: temperature, ammonium nitrogen, un-ionized ammonia, phenols, weak acid dissociable cyanide, gross beta radioactivity, total arsenic, total barium, total boron, total cadmium, total chromium (trivalent and hexavalent), soluble iron, total lead, total nickel, total mercury, total zinc, and total selenium.

The 11 water quality parameters, which were in less than complete compliance with General Use Water Quality Standards during 2002, 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. Location 30 was not sampled in 2002.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 5

WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE
IN GENERAL USE WATERS OF
ALL RIVER SYSTEMS IN 2002

Parameter	Estimated Percent Compliance*		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	91.6	92.8	92.3
pH	100.0	98.8	98.9
Chloride	97.2	100.0	89.9
Total Dissolved Solids	92.2	74.0	87.0
Sulfate	100.0	85.1	100.0
Fluoride	100.0	75.0	100.0
Fecal Coliform	37.9	64.1	48.9
Total Silver	92.7	87.5	95.9
Total Copper	93.2	95.8	97.4
Total Iron	84.1	77.7	79.4
Total Manganese	100.0	100.0	99.5

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

Twenty-one parameters were in 100 percent compliance at each of the locations. In addition to the 17 parameters listed above, pH, sulfate, fluoride, and total manganese were the other 4 parameters also in total compliance. Many violations of the pertinent standards of the remaining 7 parameters (dissolved oxygen, chloride, total dissolved solids, fecal coliform, total silver, total copper, and total iron) occurred at all 12 sampling locations of General Use waters.

The compliance rate for the fecal coliform standard was 37.9 percent. The compliance rate of total iron for the river system was 84.1 percent. The compliance rates of other parameters (dissolved oxygen, chloride, total dissolved solids, total silver, and total copper) ranged from 91.6 percent to 97.2 percent.

The 11 violations of dissolved oxygen occurred in various months of 2002. Location 31 had 3 violations, 1 each in July, October, and November. Locations 103, 32, and 34 had 2 violations each in July and August. Locations 96 and 35 had 1 violation each in November. Chloride had 3 violations, 1 each at locations 106, 103, and 96 in April, February, and December, respectively. Total dissolved solids had 9 violations. Locations 106 and 103 had 3 violations each, 1 violation each in February, March, and April. Locations 34 and 96 had 1 violation each in December.

Fecal coliform had 79 violations, which occurred in every month of 2002. Location 34 had 11 violations, 1 each in every month except January. Location 96 also had 11 violations, 1 each in every month except June. Location 103 had 9 violations, 1 each in every month except July, August, and December. Location 31 also had 9 violations, 1 each in every month except January, October, and December. Location 102 had 8 violations, 1 each in every month except February, May, July, and September. Location 104 had 7 violations, 1 each month except March, April, June, July, and December. Location 32 had 6 violations, 1 each in February, April through July, and November. Location 35 also had 6 violations, 1 each in May through September, and November. Location 105 had 5 violations, 1 each in May, July through September, and November. Location 106 also had 5 violations, 1 each in February through June. Location 100 had 2 violations, 1 each in October and November.

Total silver had 10 violations. Location 100 had 3 violations, 1 each in April, August, and September. Location 31 had 2 violations, 1 each in May and September. Location 103, 104, and 32 had 1 violation, each occurred in March, August, and May, respectively. Locations 105 and 34 also had 1 violation, each in September.

Total copper had 9 violations. Location 35 had 4 violations, 1 each in May and August through October. Location 102 had 2 violations, 1 each in July and September. Location 100 also had 2 violations, 1 each in September and October. Location 74 had only 1 violation in September.

Total iron had 21 violations, which occurred in every month of 2002 except July, September, November, and December. Location 103 had 5 violations, 1 each in January, February, May, June, and October. Location 96 also had 5 violations, 1 each in February through June. Location 34 had 4 violations, 1 each in February, May, June, and August. Location 31 had 3 violations, 1 each in May, June, and August. Location 106 had 2 violations, 1 each in February and May. Location 104 and 32 had 1 violation each in May.

Overall, there was no significant difference between the 2002 and 2001 compliance rates except for fecal coliform, total silver, total copper, and total iron. The compliance rate of fecal coliform increased from 26.3 percent in 2001 to 37.9 percent in 2002. The compliance rate of total silver decreased from 98.5 percent in 2001 to 92.7 percent in 2002. The compliance rate of total copper also decreased from 98.5 in 2001 to 93.2 percent in 2002. The compliance rate of total iron increased from 71.3 percent in 2001 to 84.1 percent in 2002.

CALUMET RIVER SYSTEM

Seven sampling locations i.e., 49, 50, 55, 52, 54, 97, and 57 are in the General Use section of the river system. In addition to the 17 parameters previously listed, which were in complete compliance in all river systems, 2 more parameters (chloride and total manganese) were in total compliance for the General Use section of the Calumet River System.

However, the compliance rates for dissolved oxygen, pH, total dissolved solids, sulfate, fluoride, fecal coliform, total silver, total copper, and total iron were 92.8, 98.8, 74.0, 85.1, 75.0, 64.1, 87.5, 95.8, and 77.7 percent, respectively.

Dissolved oxygen had 7 violations. Location 52 had 4 violations, 1 each month in May through August. Location 57 had 3 violations, 1 each month in July, September, and November. One violation of pH occurred at location 55 in June.

Total dissolved solids had 21 violations. Location 97 had 9 violations, 1 each month in January, March, and May through November. Location 54 had 7 violations, 1 each in January through April, and June through August. Location 57 had 4 violations, 1 each month in January, March, July, and October. Location 52 had only 1 violation in June.

Sulfate had 12 violations. Location 54 had 6 violations, 1 each month in January through March, and June through August. Location 97 also had 6 violations, 1 each month, June through November.

Fluoride had 19 violations. Location 52 had 10 violations, 1 each month in January, and March through November. Locations 57 had 8 violations, 1 each month in January, March, June, July, and September through December. Location 97 had 1 violation in December.

Fecal coliform had 28 violations. Location 52 had 10 violations, 1 each month in January through June, and August through November. Location 57 had 8 violations, 1 each month except March, June, July, and October. Location 97 had 6 violations, 1 each month in January through April, November, and December. Location 54 had 4 violations, 1 each month in January through April.

Total silver had 10 violations. Location 52 had 3 violations, 1 each month in June, July, and September. Locations 49 and 97 had 2 violations each. These violations occurred in July and September. Locations 50 and 54 had 1 violation each in June, and Location 57 also had 1 violation in July.

Total Copper had 3 violations, 1 each in locations 49, 50, and 55 in September.

Total iron had 17 violations. Location 52 had 10 violations, 1 each month in January through June, and August through November. Location 57 had 4 violations, 1 each month in February, May, August, and September. Location 97 had 3 violations, 1 each month in February, May, and December.

Overall, there was no significant difference between the 2002 and 2001 compliance rates except for total silver. The compliance rate of total silver decreased from complete compliance in 2001 to 87.5 percent in 2002.

DES PLAINES RIVER SYSTEM

Twenty sampling locations i.e., 90, 89, 64, 79, 80, 18, 24, 109, 21, 77, 78, 12, 13, 17, 19, 20, 22, 23, 29, and 91 are in the General Use section of the river system. Two sampling locations (89, 64) on DuPage River and 1 sampling location (90) on Poplar Creek are included in the General Use sampling locations.

In addition to the 17 parameters previously listed, which were in total compliance in all river systems, 2 other parameters (sulfate and fluoride) were also in total compliance. The compliance rates of the remaining 9 parameters i.e., dissolved oxygen, pH, chloride, total dissolved solids, fecal coliform, total silver, total copper, total iron, and total manganese

were 92.3, 98.9, 89.9, 87.0, 48.9, 95.9, 97.4, 79.4, and 99.5 percent, respectively.

Dissolved oxygen had 17 violations. Location 19 had 4 violations, 1 each month in June through September. Location 20 had 3 violations in June, August, and September. Locations 109 and 23 had 2 violations, each occurred in August and September at each location. Locations 90, 79, 24, 77, and 17 had 1 violation, each occurred in August. Location 13 also had 1 violation in September.

Two violations of pH occurred, 1 each at locations 13 and 22 in January and April, respectively.

Chloride had 19 violations, 2 each at locations 77, 20, 22, 29; and 1 each at locations 90, 89, 64, 79, 24, 21, 78, 17, 19, 23, and 91.

Total dissolved solids had 25 violations, 3 at location 21; 2 each at locations 24, 77, 78, 19, 20, 22, and 29; and 1 each at locations 90, 89, 64, 79, 80, 17, 23, and 91.

Fecal coliform had 102 violations, 9 at location 64; 8 each at locations 89, 18, 19, and 22; 7 each at locations 78 and 20; 6 each at locations 24 and 29; 5 at location 80; 4 each at location 109, 77, 12, and 17; 3 each at location 21 and 23; and 2 each at locations 90, 79, 13, and 91.

Total silver had 9 violations, 2 at location 13; 1 each at locations 90, 79, 78, 12, 19, 22, and 33.

Total copper had 6 violations, 2 at location 77; 1 each at locations 109, 19, 20, and 22.

Total iron had 43 violations; 6 at location 79; 5 at location 13; 4 each at locations 12 and 91; 3 each at locations 90, 77, 20, and 22; 2 each at locations 64, 24, 17, 19, and 29, 1 each at locations 89 and 78.

Total manganese had only 1 violation at location 12 in May.

The compliance rates of all parameters in 2002 were not significantly different from those in 2001 except for dissolved oxygen, total silver, and total iron. The compliance rate of dissolved oxygen decreased from 97.8 percent in 2001 to 92.3 percent in 2002. The compliance rate of total silver also decreased from 99.3 percent in 2001 to 95.9 percent in 2002. The compliance rate of total iron increased from 61.8 percent in 2001 to 79.4 percent in 2002.

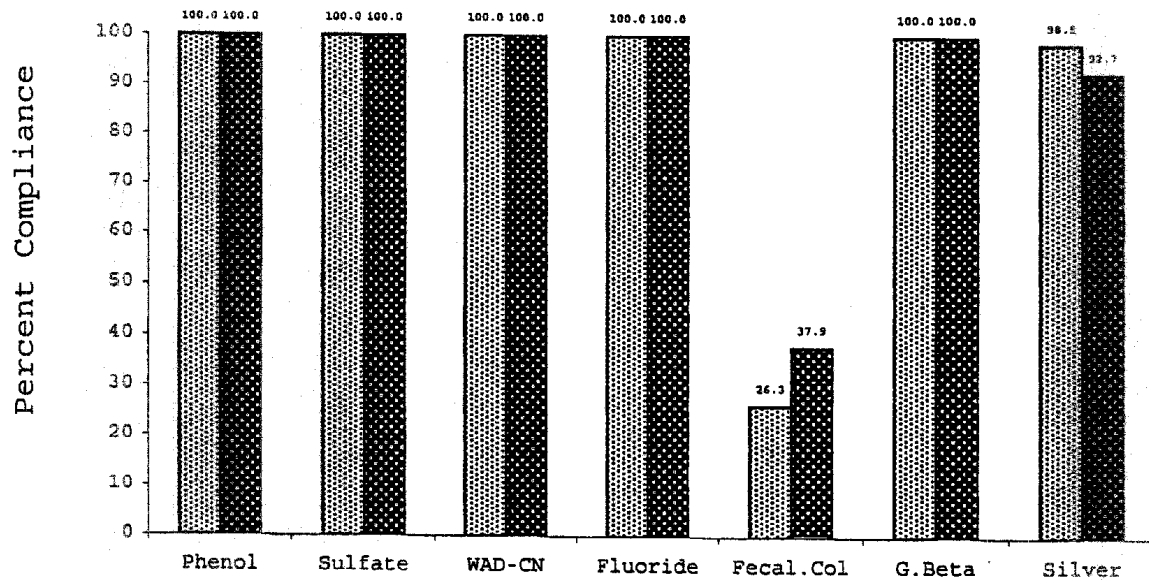
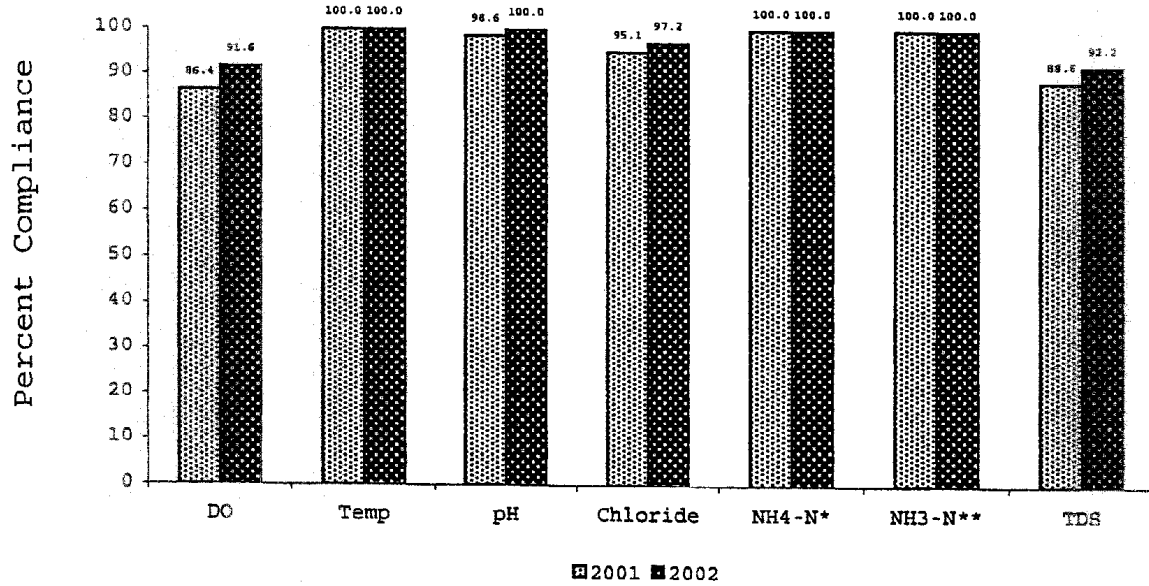
The compliance rates of 28 water quality parameters for the Chicago, the Calumet, and the Des Plaines River Systems are presented in Figures 2, 3, and 4, respectively.

The ratio of violations (number of violations/total number of observations) that occurred at each sampling location on the three river systems for the last eight years, 1995 through 2002) are presented in Appendix II, Tables AII-2 through AII-31.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 2

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF CHICAGO RIVER IN 2001 AND 2002

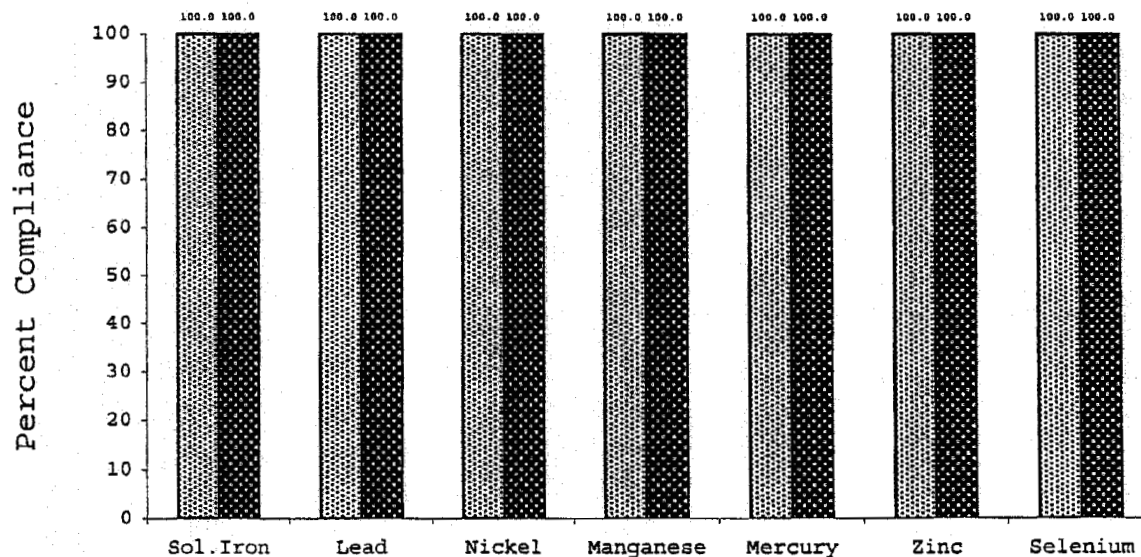
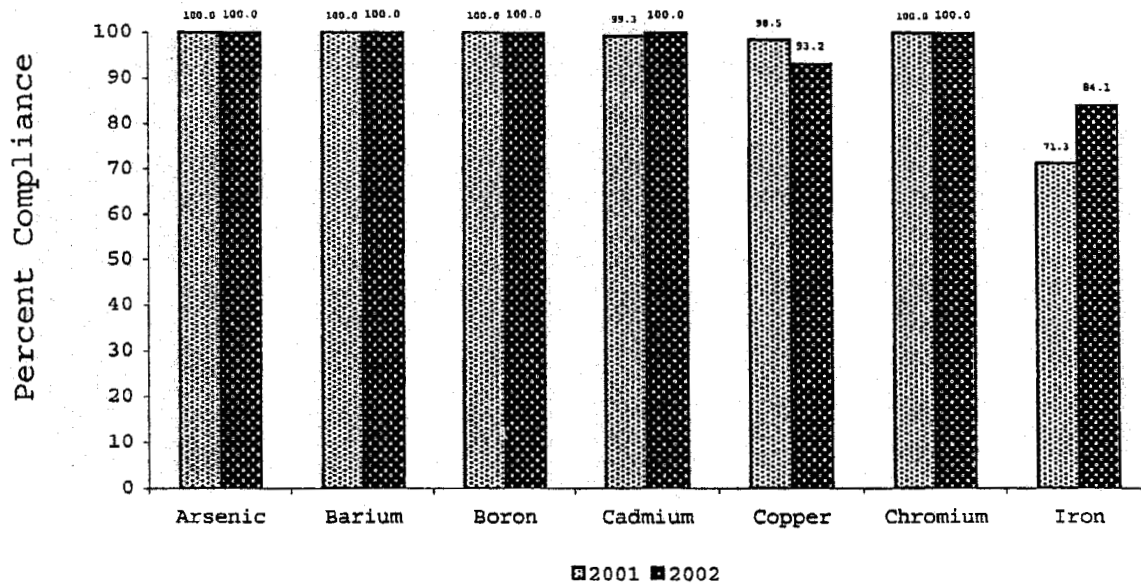


*NH4-N = Ammonium Nitrogen
 **NH3-N = Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 2 (Continued)

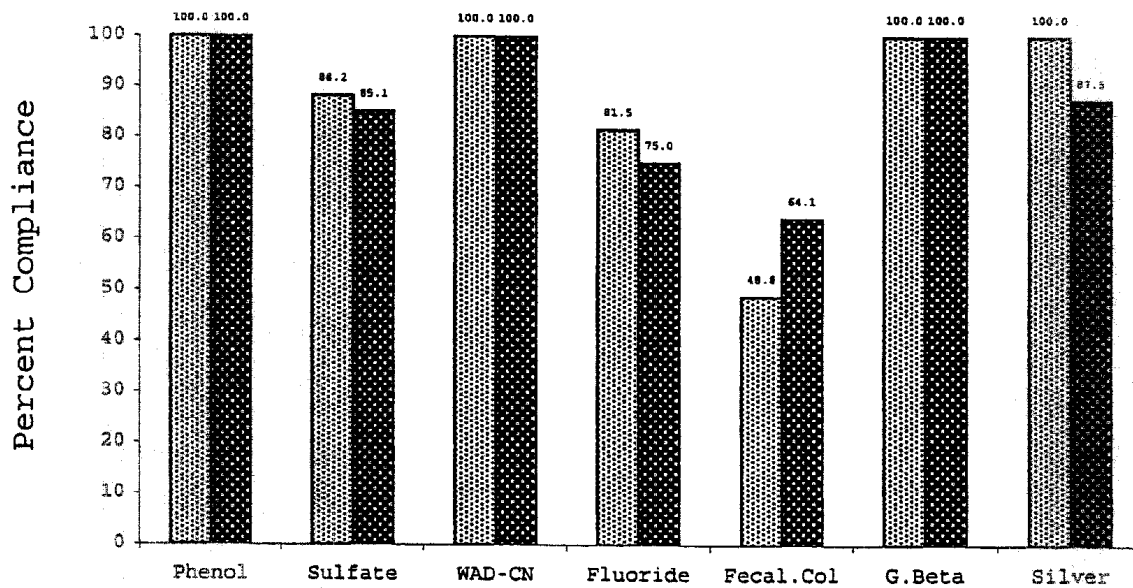
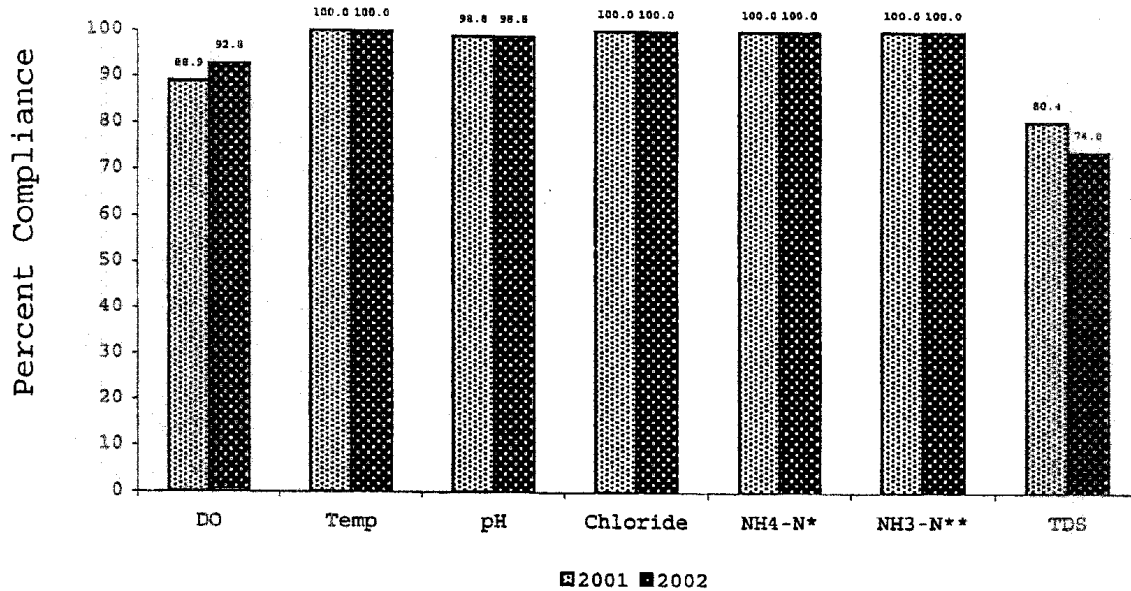
COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF CHICAGO RIVER IN 2001 AND 2002



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 3

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF CALUMET RIVER IN 2001 AND 2002

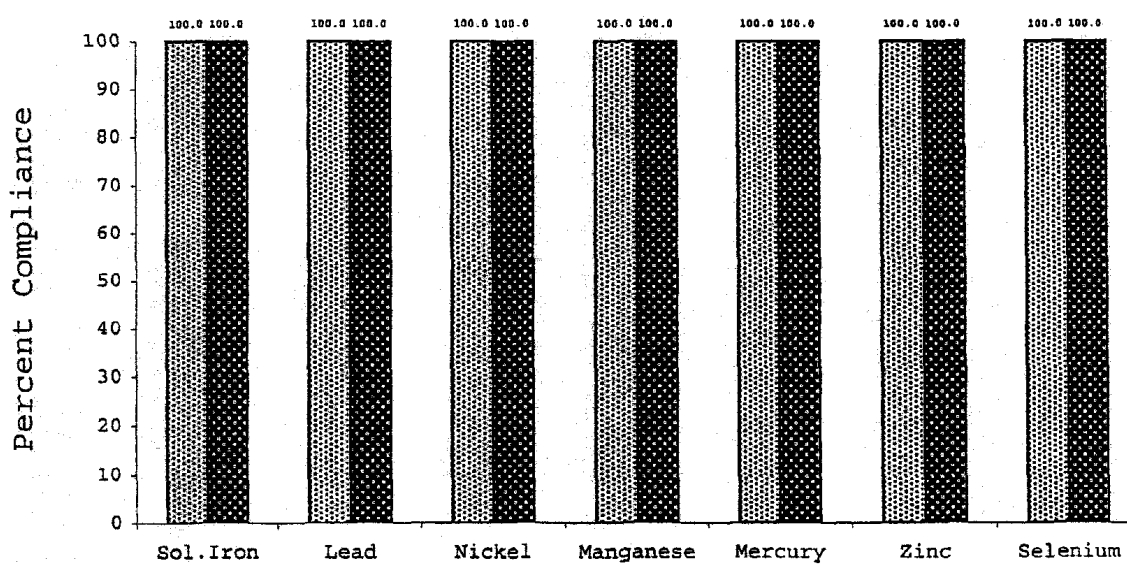
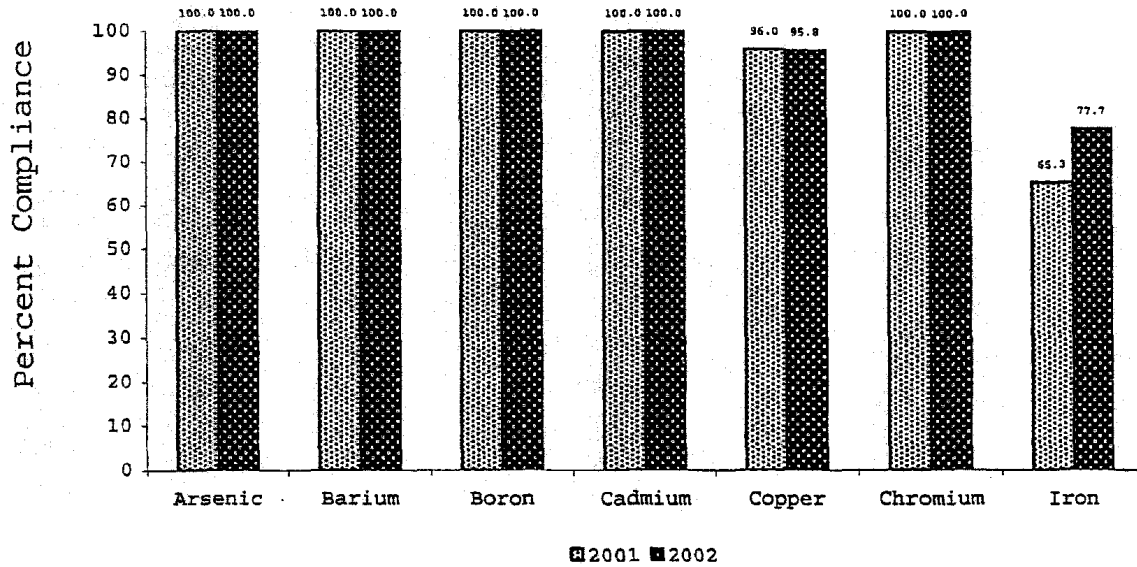


*NH4-N = Ammonium Nitrogen
 **NH3-N = Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 3 (Continued)

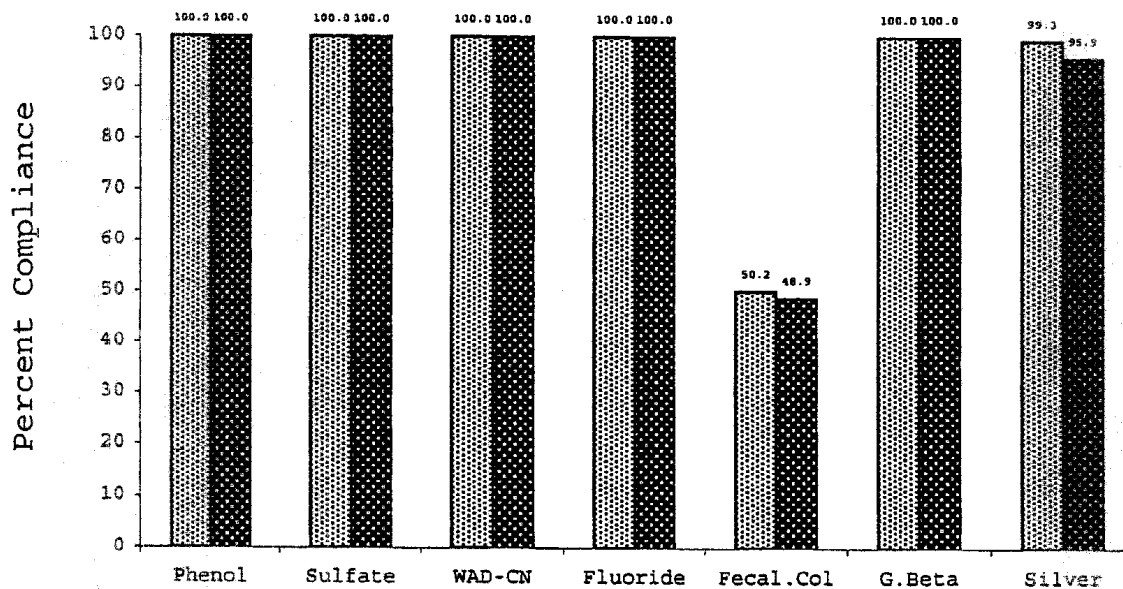
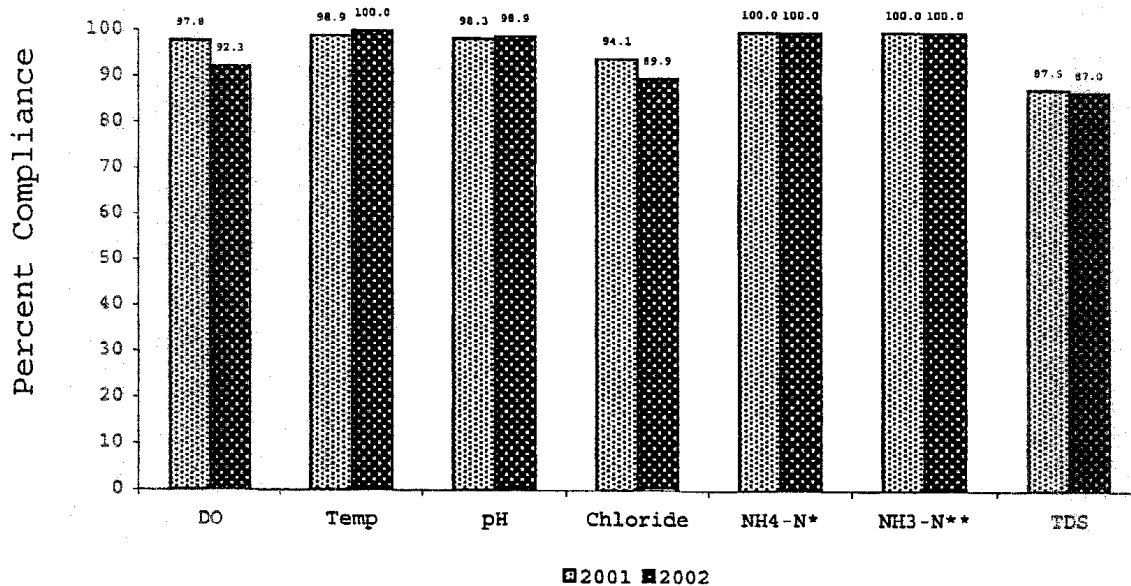
COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF CALUMET RIVER IN 2001 AND 2002



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 4

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF DES PLAINES RIVER IN 2001 AND 2002

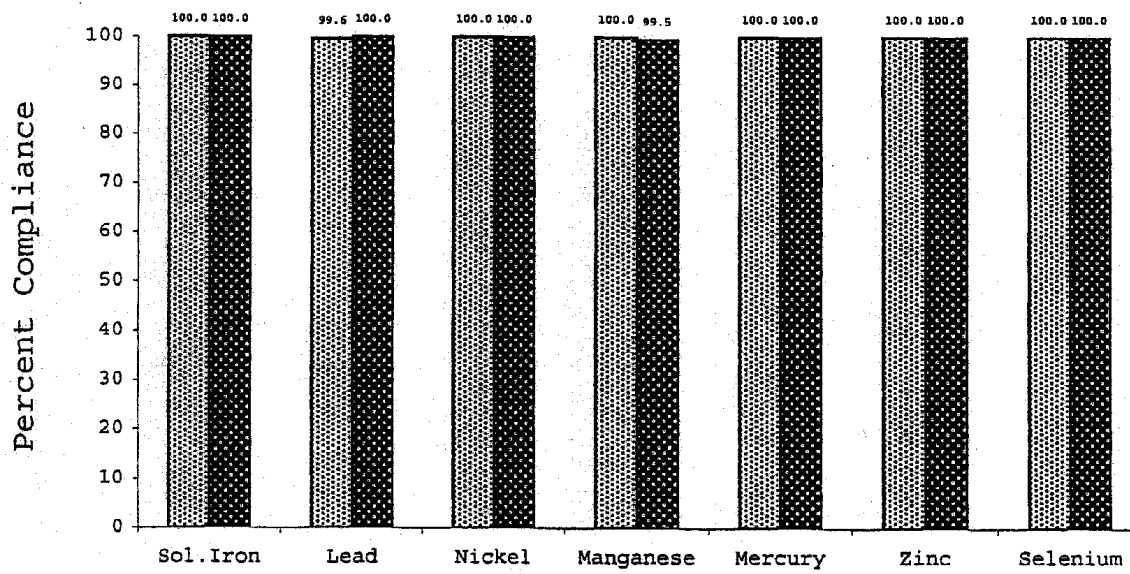
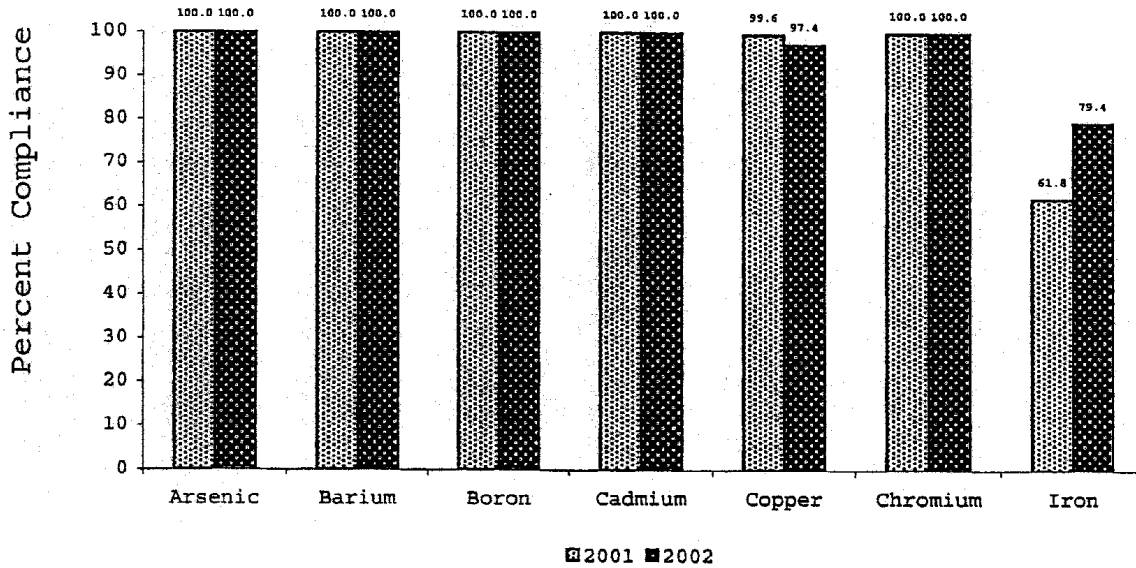


*NH4-N = Ammonium Nitrogen
 **NH3-N = Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 4 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF DES PLAINES RIVER IN 2001 AND 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 2002, and the annual frequencies of sampling are shown in Table 6. Also, Tables AII-2 through AII-31 show the number of violations and the annual frequencies of sampling. Thirteen stations were sampled routinely once a month in the Chicago River System. In 2001, grab samples were collected at the Lockport Powerhouse (Chicago River System) once per week, but sampling at this location was discontinued after April 2001. Sampling at the Lockport Powerhouse was replaced by collecting weekly grab samples at location 92 (Lockport Forebay) in 2001, as noted previously. In the Calumet River System, location 86 was sampled 11 times, while locations 56, 76, 58, 59, and 43 were sampled 21 times each in 2002.

River System Compliance Data

In Secondary Contact Waters sampled during 2002, 23 parameters had IPCB Water Quality Standards. Summary results,

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 6

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF
SECONDARY CONTACT WATERS IN 2002

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	12
107 Western 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	<u>51</u>
	207
<u>Calumet River System</u>	
86 Burnham Avenue, Grand Calumet River	11
56 Indiana Avenue, Little Calumet River	21
76 Halsted Street, Little Calumet River	21
58 Ashland Avenue, Calumet Sag Channel	21
59 Cicero Avenue, Calumet Sag Channel	21
43 Route 83, Calumet Sag Channel	<u>21</u>
	116

¹Refer to Figure 1.

including means and compliance standards, are shown in Appendix II for the Chicago and Calumet River Systems.

Generally, compliance with IPCB standards was high in 2002 in both the Chicago and Calumet River Systems. Twenty water quality parameters were in complete compliance in both of these river systems. They were temperature; pH; total dissolved solids; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total chromium; soluble iron; total lead; total nickel; total manganese; total mercury; total zinc; and total selenium.

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

<u>Parameters</u>	<u>Percent Compliance Rate</u>	
	<u>Chicago</u>	<u>Calumet</u>
Dissolved Oxygen	89.4	97.0
Un-ionized Ammonia	99.5	97.9
Total Iron	99.0	97.2

CHICAGO RIVER SYSTEM

In addition to the 20 parameters previously listed, which were in complete compliance in Chicago and Calumet River Systems, no other parameter had complete compliance. The 3 parameters

(dissolved oxygen, un-ionized ammonia, and total iron), which were not in total compliance, had a compliance rate in the range of 89.4 to 99.5 percent.

Dissolved oxygen had 22 violations, 11 at location 92 in June through October; 6 at location 99; 2 at locations 75; and 1 each at locations 46, 107, and 42.

Un-ionized ammonia had only 1 violation at location 75 in June.

Total iron had 2 violations, 1 each at locations 73 and 92 in May and February respectively.

The compliance rates of all parameters in 2002 were not significantly different from those in 2001 except for fats, oils, and greases. The compliance rate of fats, oils, and greases significantly increased from 97.8 percent in 2001 to complete compliance in 2002.

CALUMET RIVER SYSTEM

In addition to the 20 parameters previously listed, which were in complete compliance in the Chicago and the Calumet River Systems, no other parameter had complete compliance. However, the compliance rates for dissolved oxygen, un-ionized ammonia, and total iron were 97.0, 97.9, and 97.2 percent, respectively.

Dissolved oxygen had 4 violations at location 86, 1 each month in May, June, August, and September.

Un-ionized ammonia had only 1 violation at location 86 in September.

Total iron had 2 violations, 1 each at locations 86 and 56 in May and August, respectively.

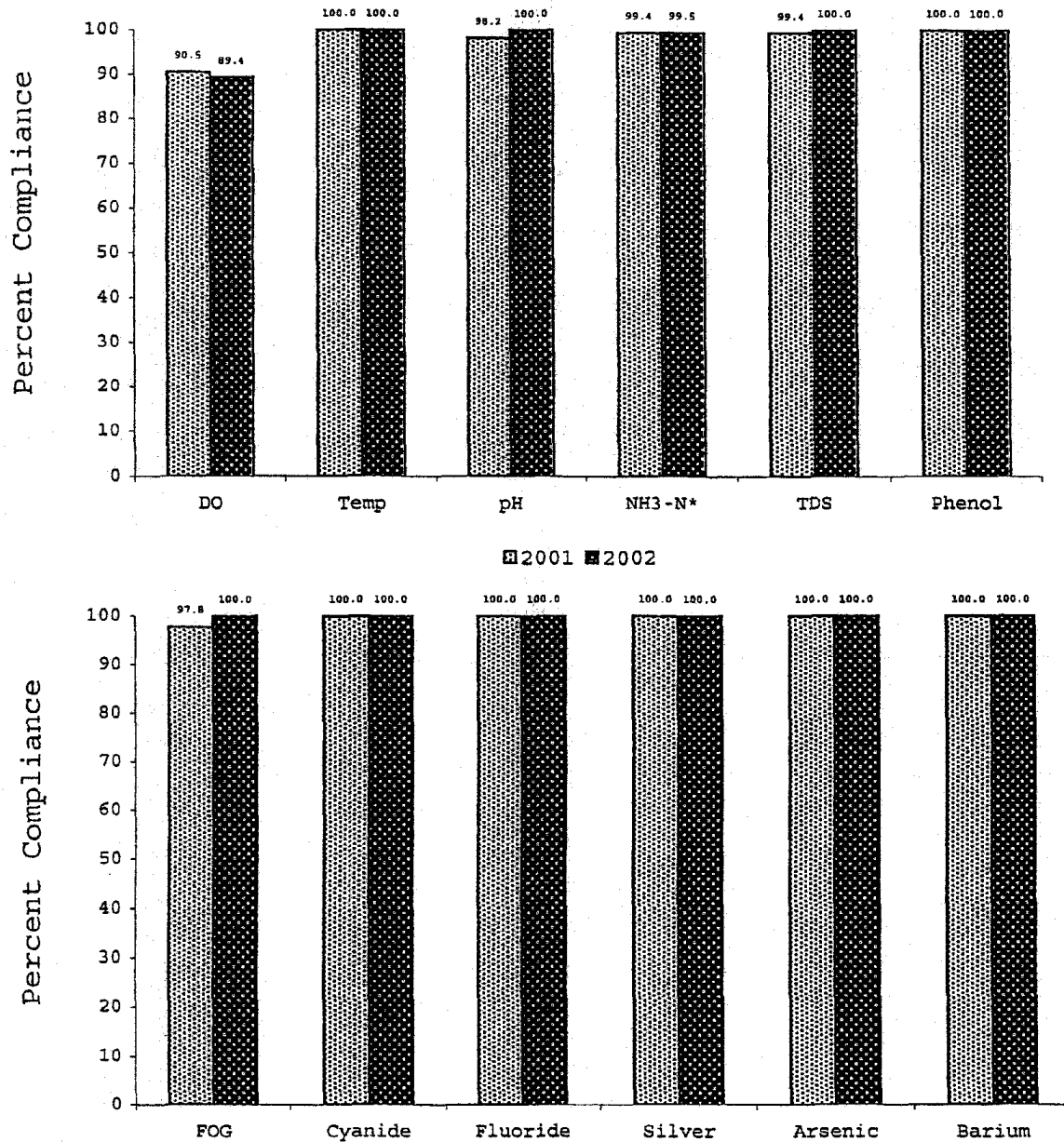
The compliance rates of all parameters in 2002 are not significantly different from those in 2001.

The compliance rates of 23 water quality parameters for Secondary Contact Waters of the two river systems during 2001 and 2002 are presented in Figures 5 and 6. The number of violations, which occurred in each sampling location of the three river systems for the last eight years, are presented in Appendix II, Tables AII-2 through AII-31.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 5

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATERS SECTION OF CHICAGO RIVER IN 2001 AND 2002

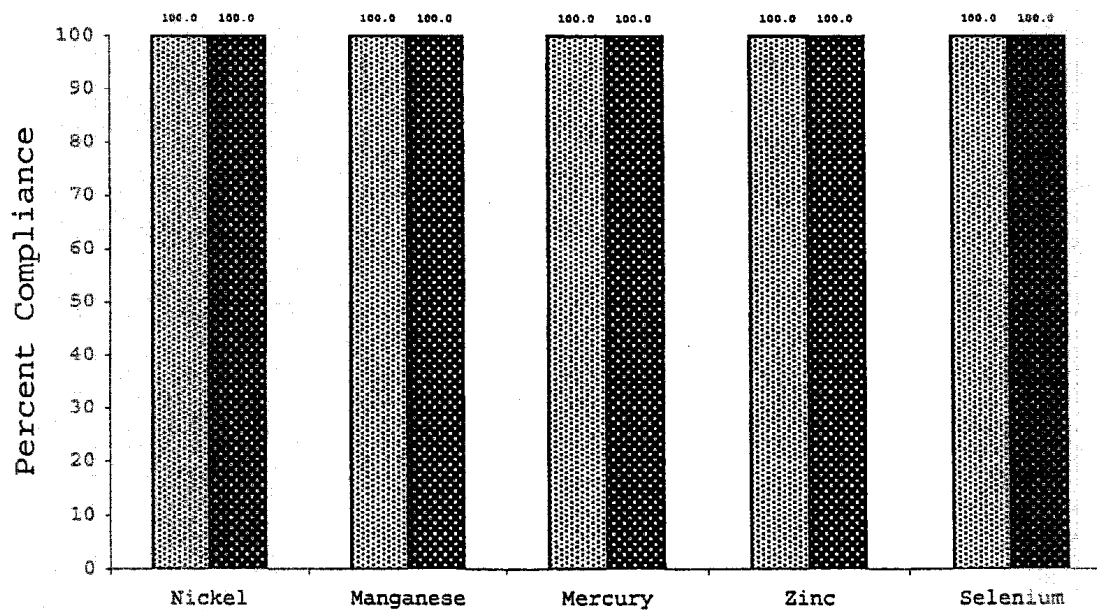
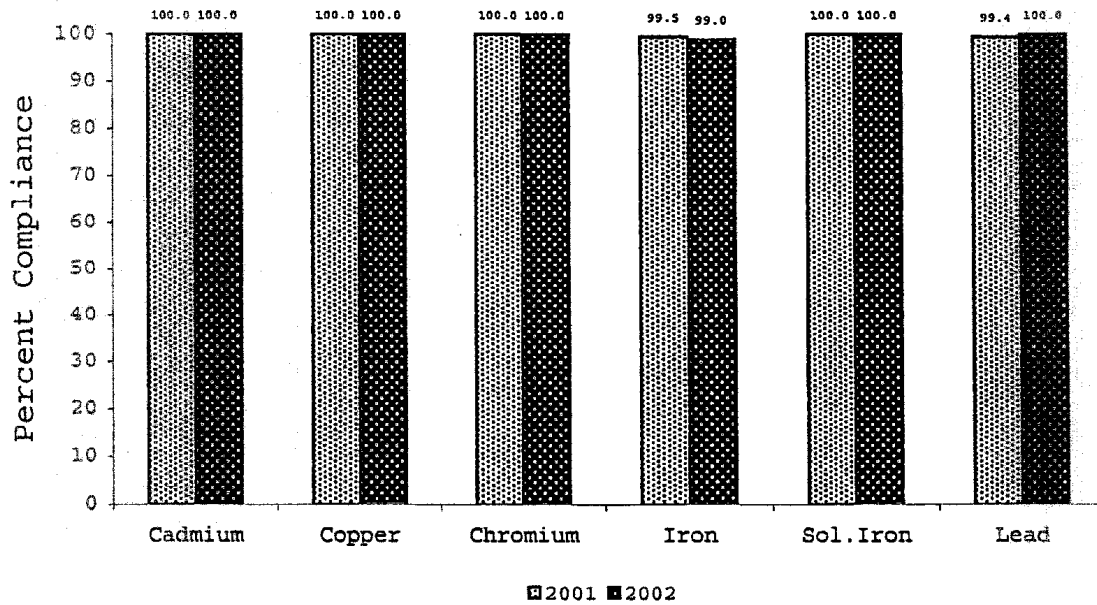


*NH3-N = Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 5 (Continued)

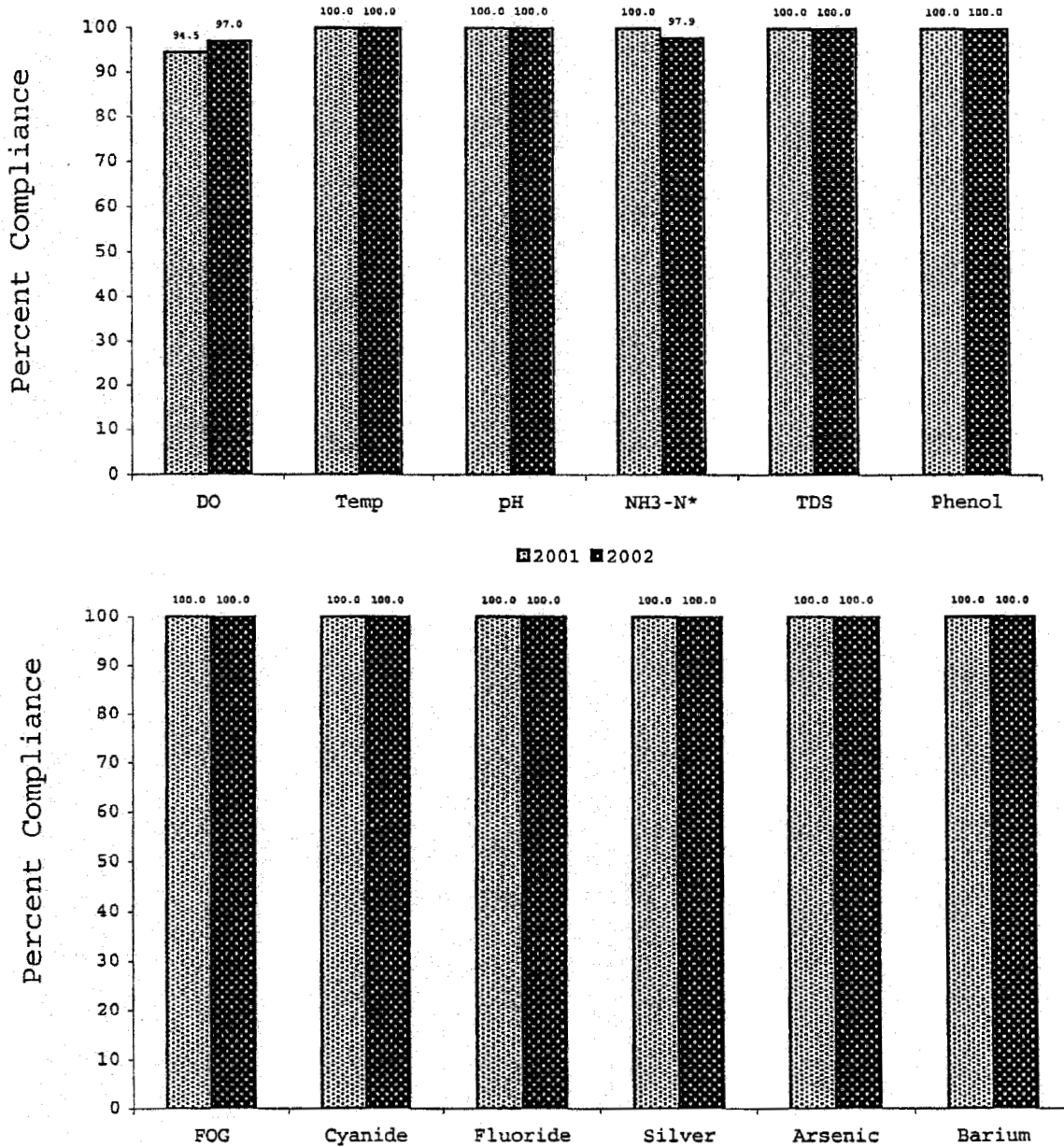
COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATERS SECTION OF CHICAGO RIVER IN 2001 AND 2002



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 6

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATERS SECTION OF CALUMET RIVER IN 2001 AND 2002

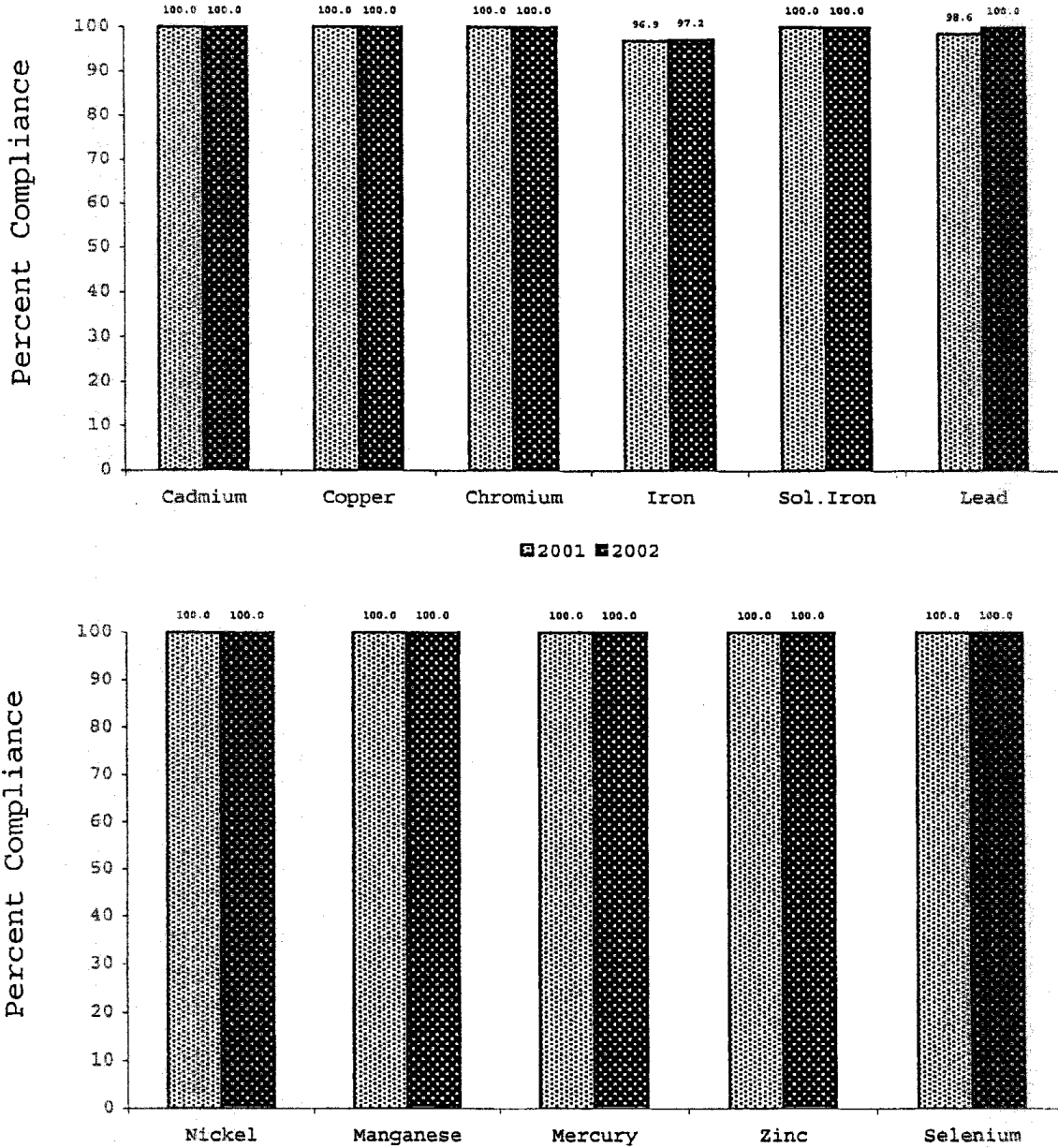


*NH3-N = Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 6 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATERS SECTION OF CALUMET RIVER IN 2001 AND 2002



RECEIVING WATER QUALITY STANDARDS COMPLIANCE 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 2002. 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 into waters classified as Secondary Contact Water. During 2002, 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 7. No samples at location 63 upstream of the Hanover Park WRP were taken in 2002 because the water level was too low to obtain a representative sample without being contaminated by sediments.

The outfalls for Hanover Park, John E. Egan, and James C. Kirie WRPs are located in the West Branch of the DuPage River, Salt Creek, and Higgins Creek, respectively. These streams fall within the General Use Waters classification with the respective sampling locations upstream and downstream as

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 7

ANNUAL SAMPLING FREQUENCIES AT
UPSTREAM AND DOWNSTREAM LOCATIONS OF DISTRICT
WATER RECLAMATION PLANTS IN 2002

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	21	Halsted Street, Little Calumet River	76	21
John E. Egan	Higgins Road, Salt Creek	79	8	Arlington Heights Road, Salt Creek	80	10
James C. Kirie	Elmhurst Road, Higgins Creek	77	6	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.

shown in Table 7. More specifically, the General Use outfalls 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 Visitor's Road "A" Bridge, 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 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.

Annual Summary Results for Water Quality Upstream and
Downstream of District Outfalls

Several statistical analyses were performed to evaluate the effect of the outfalls of each of the WRPs on the corresponding receiving streams. The sample values of each parameter at the upstream and downstream locations were first tested to see if they exhibited a normal distribution and then tested for equality of variances. If the sample data of upstream and

downstream locations came from a normally distributed population with equal variances, an exact t-test is used for testing the equality of upstream and downstream means. Otherwise, an approximate t-test is used if the data came from two different normally distributed populations. If the upstream and downstream data did not come from normally distributed populations, a Wilcoxon rank-sum test is used to test for the equality of upstream and downstream means.

The mean levels of each parameter measured at the upstream and downstream locations of each WRP, and the corresponding significance probability associated with the exact t-test/approximate t-test or Wilcoxon rank-sum test are tabulated in Tables 8 through 12. Tables AIII-1 through AIII-5 in Appendix AIII show in detail the significance probability due to a normality test and an equal variance test on the upstream and downstream data, and the significance probability for the equality of upstream and downstream means due to Wilcoxon rank-sum test and exact t-test/approximate t-test.

Comparison of the upstream and downstream mean concentrations of all the 64 parameters (including the 30 parameters which have IPCB standards and the remaining 34 parameters which do not have standards) show that the downstream mean concentrations are statistically different from the upstream

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 8

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR NORTH SIDE WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Biochemical Oxygen Demand	BOD ₅ (mg/L)	2.56		6.58	0.002
Carbonaceous Biochemical- Oxygen Demand	CBOD ₅ (mg/L)	1.11		2.00	0.296
Dissolved Oxygen	DO (mg/L)	7.34		6.90	0.529
Temperature	Temp (°C)	14.3		16.5	0.517
pH	pH	7.90		7.38	0.046
Alkalinity (Total)	Alk (mg/L)	119		149	0.025
Chloride	Cl (mg/L)	64		105	0.030
Turbidity	Turb (NTU)	10.6		8.1	0.286
Total Kjeldahl Nitrogen	TKN (mg/L)	1.02		2.60	0.001
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.313		0.987	0.003
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.008		0.013	0.880
Organic Nitrogen	ORG-N (mg/L)	0.71		1.61	0.004
Nitrite + Nitrate Nitrogen	NO ₂ +NO ₃ (mg/L)	0.34		5.58	0.000
Total Solids	TS (mg/L)	321		461	0.105
Total Suspended Solids	TSS (mg/L)	12.8		15.3	0.803
Volatile Suspended Solids	VSS (mg/L)	3.78		5.08	0.087
Total Dissolved Solids	TDS (mg/L)	309		446	0.110
Phenols	Phenol (µg/L)	4.5		9.0	0.056
Sulfate	SO ₄ (mg/L)	34.9		53.3	0.003
Fats, Oils, and Greases	FOG (mg/L)	-		5.54	-
Total Phosphorus	T.P (mg/L)	0.101		1.057	0.000
Total Cyanide	CN (mg/L)	0.000		0.004	0.003
WAD Cyanide	WAD-CN (mg/L)	0.000		0.001	0.000
Fluoride	F (mg/L)	0.307		0.749	0.004

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 8 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR NORTH SIDE WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Total Organic Carbon	TOC (mg/L)	5.33		8.83	0.000
Fecal Coliform*	FC (#/100 ml)	483		8349	0.001
Escherichia Coli*	EColi (#/100 ml)	4382		9539	0.086
Total Calcium	Ca (mg/L)	43.6		58.5	0.014
Soluble Calcium	Sol.Ca (mg/L)	39.5		54.8	0.010
Total Magnesium	Mg (mg/L)	15.2		21.2	0.026
Soluble Magnesium	Sol.Mg (mg/L)	13.8		19.9	0.022
Hardness	Hard (mg/L)	171		233	0.018
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.40		3.72	0.428
Gross Beta Radioactivity	G.Beta (pCi/L)	6.79		7.94	0.025
Chlorophyll a	Chlrphl (µg/L)	12.5		1.5	0.188
Total Silver	Ag (mg/L)	0.001		0.002	0.349
Soluble Silver	Sol.Ag (mg/L)	0.001		0.001	0.924
Total Arsenic	As (mg/L)	0.002		0.002	0.944
Soluble Arsenic	Sol.As (mg/L)	0.000		0.000	1.000
Total Barium	Ba (mg/L)	0.030		0.024	0.049
Soluble Barium	Sol.Ba (mg/L)	0.022		0.019	0.110
Total Boron	B (mg/L)	0.052		0.185	0.000
Soluble Boron	Sol.B (mg/L)	0.030		0.169	0.000
Total Cadmium	Cd (mg/L)	0.000		0.001	0.125
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.374
Total Copper	Cu (mg/L)	0.023		0.024	0.831
Soluble Copper	Sol.Cu (mg/L)	0.006		0.006	0.717
Total Chromium	Cr (mg/L)	0.008		0.004	0.899

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 8 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR NORTH SIDE WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Soluble Chromium	Sol.Cr (mg/L)	0.003		0.002	0.966
Total Hexavalent Chromium	Cr ⁺⁶ (µg/L)	0.000		0.000	1.000
Total Iron	Fe (mg/L)	0.355		0.310	0.517
Soluble Iron	Sol.Fe (mg/L)	0.076		0.093	0.360
Total Lead	Pb (mg/L)	0.002		0.001	0.716
Soluble Lead	Sol.Pb (mg/L)	0.001		0.001	0.849
Total Nickel	Ni (mg/L)	0.002		0.004	0.074
Soluble Nickel	Sol.Ni (mg/L)	0.001		0.003	0.026
Total Manganese	Mn (mg/L)	0.028		0.034	0.644
Soluble Manganese	Sol.Mn (mg/L)	0.012		0.017	0.110
Total Mercury	Hg (µg/L)	0.038		0.018	0.221
Soluble Mercury	Sol.Hg (µg/L)	0.008		0.030	0.223
Total Zinc	Zn (mg/L)	0.028		0.058	0.020
Soluble Zinc	Sol.Zn (mg/L)	0.007		0.032	0.000
Total Selenium	Se (mg/L)	0.008		0.008	0.966
Soluble Selenium	Sol.Se (mg/L)	0.005		0.005	1.000

¹Significance probability ≤ 0.05 indicates that up and down population means are not equal.

*Geometric Mean

- = No data or statistics, or applicable test exists.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 9

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR STICKNEY WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Biochemical Oxygen Demand	BOD ₅ (mg/L)	2.58		2.25	0.762
Carbonaceous Biochemical- Oxygen Demand	CBOD ₅ (mg/L)	0.75		0.50	0.652
Dissolved Oxygen	DO (mg/L)	5.18		6.95	0.003
Temperature	Temp (°C)	18.8		16.9	0.463
pH	pH	7.16		7.17	0.988
Alkalinity (Total)	Alk (mg/L)	153		137	0.470
Chloride	Cl (mg/L)	130		124	0.795
Turbidity	Turb (NTU)	10.6		8.3	0.008
Total Kjeldahl Nitrogen	TKN (mg/L)	2.15		1.68	0.194
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.869		0.534	0.023
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.019		0.003	0.117
Organic Nitrogen	ORG-N (mg/L)	1.28		1.15	0.477
Nitrite + Nitrate Nitrogen	NO ₂ +NO ₃ (mg/L)	4.30		6.81	0.011
Total Solids	TS (mg/L)	498		506	0.544
Total Suspended Solids	TSS (mg/L)	15.1		11.6	0.029
Volatile Suspended Solids	VSS (mg/L)	3.00		2.92	0.667
Total Dissolved Solids	TDS (mg/L)	483		495	0.507
Phenols	Phenol (µg/L)	7.7		6.8	0.431
Sulfate	SO ₄ (mg/L)	54.3		69.4	0.021
Fats, Oils, and Greases	FOG (mg/L)	5.57		5.16	0.583
Total Phosphorus	T.P (mg/L)	0.723		0.984	0.184
Total Cyanide	CN (mg/L)	0.003		0.005	0.139
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	1.000
Fluoride	F (mg/L)	0.578		0.743	0.026

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 9 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR STICKNEY WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Total Organic Carbon	TOC (mg/L)	7.50		7.92	0.467
Fecal Coliform*	FC (#/100 ml)	245		3609	0.000
Escherichia Coli*	EColi (#/100 ml)	224		2925	0.014
Total Calcium	Ca (mg/L)	59.9		57.3	0.817
Soluble Calcium	Sol.Ca (mg/L)	52.5		52.4	0.981
Total Magnesium	Mg (mg/L)	21.9		21.1	0.885
Soluble Magnesium	Sol.Mg (mg/L)	19.6		19.3	0.901
Hardness	Hard (mg/L)	240		230	0.977
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.70		3.66	0.791
Gross Beta Radioactivity	G.Beta (pCi/L)	6.80		6.66	0.872
Chlorophyll a	Chlrphl (µg/L)	5.0		2.4	0.006
Total Silver	Ag (mg/L)	0.003		0.002	0.139
Soluble Silver	Sol.Ag (mg/L)	0.001		0.001	0.684
Total Arsenic	As (mg/L)	0.005		0.005	1.000
Soluble Arsenic	Sol.As (mg/L)	0.000		0.002	0.166
Total Barium	Ba (mg/L)	0.029		0.023	0.005
Soluble Barium	Sol.Ba (mg/L)	0.020		0.017	0.045
Total Boron	B (mg/L)	0.145		0.184	0.023
Soluble Boron	Sol.B (mg/L)	0.130		0.169	0.027
Total Cadmium	Cd (mg/L)	0.001		0.001	0.761
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.829
Total Copper	Cu (mg/L)	0.020		0.016	0.154
Soluble Copper	Sol.Cu (mg/L)	0.005		0.003	0.592
Total Chromium	Cr (mg/L)	0.006		0.004	0.338

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 9 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR STICKNEY WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.001	0.491
Total Hexavalent Chromium	Cr ⁺⁶ (μg/L)	0.000		0.000	1.000
Total Iron	Fe (mg/L)	0.545		0.330	0.000
Soluble Iron	Sol.Fe (mg/L)	0.091		0.095	0.707
Total Lead	Pb (mg/L)	0.003		0.002	0.879
Soluble Lead	Sol.Pb (mg/L)	0.001		0.001	1.000
Total Nickel	Ni (mg/L)	0.006		0.008	0.074
Soluble Nickel	Sol.Ni (mg/L)	0.005		0.005	0.488
Total Manganese	Mn (mg/L)	0.040		0.036	0.004
Soluble Manganese	Sol.Mn (mg/L)	0.022		0.013	0.005
Total Mercury	Hg (μg/L)	0.011		0.015	0.684
Soluble Mercury	Sol.Hg (μg/L)	0.000		0.033	0.317
Total Zinc	Zn (mg/L)	0.046		0.038	0.306
Soluble Zinc	Sol.Zn (mg/L)	0.021		0.022	0.764
Total Selenium	Se (mg/L)	0.010		0.006	0.353
Soluble Selenium	Sol.Se (mg/L)	0.004		0.001	0.305

¹Significance probability ≤ 0.05 indicates that up and down population means are not equal.

*Geometric Mean

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 10

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR CALUMET WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Biochemical Oxygen Demand	BOD ₅ (mg/L)	2.42		1.58	0.216
Carbonaceous Biochemical- Oxygen Demand	CBOD ₅ (mg/L)	1.92		0.67	0.073
Dissolved Oxygen	DO (mg/L)	8.69		6.92	0.001
Temperature	Temp (°C)	13.6		14.8	0.665
pH	pH	7.63		7.35	0.151
Alkalinity (Total)	Alk (mg/L)	138		156	0.120
Chloride	Cl (mg/L)	109		127	0.464
Turbidity	Turb (NTU)	18.9		10.3	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.02		1.38	0.009
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.115		0.188	0.052
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.002	1.000
Organic Nitrogen	ORG-N (mg/L)	0.90		1.20	0.027
Nitrite + Nitrate Nitrogen	NO ₂ +NO ₃ (mg/L)	2.38		5.36	0.000
Total Solids	TS (mg/L)	475		547	0.287
Total Suspended Solids	TSS (mg/L)	27.8		15.2	0.010
Volatile Suspended Solids	VSS (mg/L)	4.58		3.67	0.303
Total Dissolved Solids	TDS (mg/L)	447		532	0.202
Phenols	Phenol (µg/L)	4.1		9.4	0.000
Sulfate	SO ₄ (mg/L)	78.9		91.2	0.308
Fats, Oils, and Greases	FOG (mg/L)	4.87		4.39	0.528
Total Phosphorus	T.P (mg/L)	0.495		2.037	0.000
Total Cyanide	CN (mg/L)	0.002		0.005	0.030
WAD Cyanide	WAD-CN (mg/L)	0.000		0.001	0.000
Fluoride	F (mg/L)	0.394		0.632	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 10 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR CALUMET WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Total Organic Carbon	TOC (mg/L)	6.42		8.33	0.030
Fecal Coliform*	FC (#/100 ml)	89		2024	0.000
Escherichia Coli*	EColi (#/100 ml)	101		1815	0.011
Total Calcium	Ca (mg/L)	58.6		64.8	0.329
Soluble Calcium	Sol.Ca (mg/L)	51.7		60.1	0.146
Total Magnesium	Mg (mg/L)	23.8		23.0	0.840
Soluble Magnesium	Sol.Mg (mg/L)	21.2		21.5	0.406
Hardness	Hard (mg/L)	244		256	0.285
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.57		3.72	0.430
Gross Beta Radioactivity	G.Beta (pCi/L)	6.80		9.00	0.039
Chlorophyll a	Chlrphl (µg/L)	26.4		9.1	0.001
Total Silver	Ag (mg/L)	0.001		0.003	0.161
Soluble Silver	Sol.Ag (mg/L)	0.002		0.001	0.175
Total Arsenic	As (mg/L)	0.006		0.010	0.406
Soluble Arsenic	Sol.As (mg/L)	0.002		0.004	0.929
Total Barium	Ba (mg/L)	0.037		0.024	0.000
Soluble Barium	Sol.Ba (mg/L)	0.028		0.018	0.000
Total Boron	B (mg/L)	0.161		0.201	0.174
Soluble Boron	Sol.B (mg/L)	0.145		0.186	0.141
Total Cadmium	Cd (mg/L)	0.001		0.001	0.688
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	1.000
Total Copper	Cu (mg/L)	0.020		0.016	0.310
Soluble Copper	Sol.Cu (mg/L)	0.003		0.003	0.711
Total Chromium	Cr (mg/L)	0.006		0.001	0.079

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 10 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR CALUMET WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Soluble Chromium	Sol.Cr (mg/L)	0.007		0.003	0.167
Total Hexavalent Chromium	Cr ⁺⁶ (µg/L)	0.000		0.000	1.000
Total Iron	Fe (mg/L)	1.014		0.449	0.026
Soluble Iron	Sol.Fe (mg/L)	0.078		0.107	0.136
Total Lead	Pb (mg/L)	0.003		0.002	0.849
Soluble Lead	Sol.Pb (mg/L)	0.001		0.001	1.000
Total Nickel	Ni (mg/L)	0.006		0.004	0.883
Soluble Nickel	Sol.Ni (mg/L)	0.004		0.003	0.639
Total Manganese	Mn (mg/L)	0.086		0.053	0.795
Soluble Manganese	Sol.Mn (mg/L)	0.010		0.031	0.000
Total Mercury	Hg (µg/L)	0.034		0.047	0.586
Soluble Mercury	Sol.Hg (µg/L)	0.020		0.019	0.923
Total Zinc	Zn (mg/L)	0.051		0.065	0.272
Soluble Zinc	Sol.Zn (mg/L)	0.015		0.032	0.015
Total Selenium	Se (mg/L)	0.009		0.006	0.618
Soluble Selenium	Sol.Se (mg/L)	0.004		0.003	0.801

¹Significance probability ≤ 0.05 indicates that up and down population means are not equal.

*Geometric Mean

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 11

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Biochemical Oxygen Demand	BOD ₅ (mg/L)	-		-	-
Carbonaceous Biochemical- Oxygen Demand	CBOD ₅ (mg/L)	-		-	-
Dissolved Oxygen	DO (mg/L)	7.59		8.07	0.621
Temperature	Temp (°C)	18.9		14.2	0.263
pH	pH	7.74		7.56	0.592
Alkalinity (Total)	Alk (mg/L)	166		151	0.405
Chloride	Cl (mg/L)	260		213	0.505
Turbidity	Turb (NTU)	24.6		6.8	0.001
Total Kjeldahl Nitrogen	TKN (mg/L)	1.60		1.83	0.824
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.090		0.299	0.824
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.004		0.002	0.634
Organic Nitrogen	ORG-N (mg/L)	1.51		1.53	0.884
Nitrite + Nitrate Nitrogen	NO ₂ +NO ₃ (mg/L)	0.23		7.69	0.000
Total Solids	TS (mg/L)	746		666	0.506
Total Suspended Solids	TSS (mg/L)	38.0		8.3	0.002
Volatile Suspended Solids	VSS (mg/L)	9.38		3.30	0.001
Total Dissolved Solids	TDS (mg/L)	708		658	0.667
Phenols	Phenol (µg/L)	6.1		6.6	0.696
Sulfate	SO ₄ (mg/L)	76.0		79.3	0.678
Fats, Oils, and Greases	FOG (mg/L)	-		-	-
Total Phosphorus	T.P (mg/L)	0.109		1.992	0.000
Total Cyanide	CN (mg/L)	0.002		0.005	0.001
WAD Cyanide	WAD-CN (mg/L)	0.001		0.002	0.040
Fluoride	F (mg/L)	0.237		0.602	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 11 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
 FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Total Organic Carbon	TOC (mg/L)	10.00		10.50	0.179
Fecal Coliform*	FC (#/100 ml)	82		303	0.148
Escherichia Coli*	EColi (#/100 ml)	61		209	0.221
Total Calcium	Ca (mg/L)	67.5		68.7	0.880
Soluble Calcium	Sol.Ca (mg/L)	59.0		63.8	0.467
Total Magnesium	Mg (mg/L)	31.2		27.0	0.268
Soluble Magnesium	Sol.Mg (mg/L)	27.4		25.5	0.555
Hardness	Hard (mg/L)	297		283	0.673
Gross Alpha Radioactivity	G.Alpha (pCi/L)	4.23		4.00	0.596
Gross Beta Radioactivity	G.Beta (pCi/L)	8.09		9.12	0.267
Chlorophyll a	Chlrphl (µg/L)	30.6		12.9	0.020
Total Silver	Ag (mg/L)	0.001		0.000	0.871
Soluble Silver	Sol.Ag (mg/L)	0.002		0.002	1.000
Total Arsenic	As (mg/L)	0.000		0.002	0.434
Soluble Arsenic	Sol.As (mg/L)	0.000		0.004	0.222
Total Barium	Ba (mg/L)	0.048		0.030	0.003
Soluble Barium	Sol.Ba (mg/L)	0.035		0.024	0.020
Total Boron	B (mg/L)	0.100		0.207	0.003
Soluble Boron	Sol.B (mg/L)	0.077		0.185	0.001
Total Cadmium	Cd (mg/L)	0.001		0.001	0.714
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.671
Total Copper	Cu (mg/L)	0.021		0.018	0.329
Soluble Copper	Sol.Cu (mg/L)	0.003		0.009	0.007
Total Chromium	Cr (mg/L)	0.009		0.003	0.289

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 11 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Soluble Chromium	Sol.Cr (mg/L)	0.004		0.002	0.266
Total Hexavalent Chromium	Cr ⁺⁶ (µg/L)	0.000		0.000	1.000
Total Iron	Fe (mg/L)	1.448		0.343	0.000
Soluble Iron	Sol.Fe (mg/L)	0.124		0.152	0.091
Total Lead	Pb (mg/L)	0.002		0.001	0.373
Soluble Lead	Sol.Pb (mg/L)	0.001		0.000	0.538
Total Nickel	Ni (mg/L)	0.006		0.005	0.447
Soluble Nickel	Sol.Ni (mg/L)	0.003		0.003	0.617
Total Manganese	Mn (mg/L)	0.134		0.051	0.002
Soluble Manganese	Sol.Mn (mg/L)	0.034		0.018	0.824
Total Mercury	Hg (µg/L)	0.051		0.030	0.448
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.020	0.131
Total Zinc	Zn (mg/L)	0.023		0.031	0.128
Soluble Zinc	Sol.Zn (mg/L)	0.003		0.019	0.001
Total Selenium	Se (mg/L)	0.002		0.016	0.206
Soluble Selenium	Sol.Se (mg/L)	0.006		0.004	0.573

¹Significance probability ≤ 0.05 indicates that up and down population means are not equal.

*Geometric Mean

- = No data or statistics, or applicable test exists.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 12

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Biochemical Oxygen Demand	BOD ₅ (mg/L)	-	-	-	-
Carbonaceous Biochemical- Oxygen Demand	CBOD ₅ (mg/L)	-	-	-	-
Dissolved Oxygen	DO (mg/L)	8.22		8.55	0.794
Temperature	Temp (°C)	15.0		16.0	0.797
pH	pH	7.35		7.14	0.285
Alkalinity (Total)	Alk (mg/L)	139		181	0.071
Chloride	Cl (mg/L)	460		259	1.000
Turbidity	Turb (NTU)	22.2		6.9	0.002
Total Kjeldahl Nitrogen	TKN (mg/L)	1.31		1.65	0.127
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.107		0.211	0.072
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.001		0.001	0.960
Organic Nitrogen	ORG-N (mg/L)	1.20		1.44	0.231
Nitrite + Nitrate Nitrogen	NO ₂ +NO ₃ (mg/L)	0.41		5.67	0.000
Total Solids	TS (mg/L)	958		764	0.743
Total Suspended Solids	TSS (mg/L)	36.0		7.0	0.001
Volatile Suspended Solids	VSS (mg/L)	6.83		2.58	0.005
Total Dissolved Solids	TDS (mg/L)	922		757	1.000
Phenols	Phenol (µg/L)	5.8		11.3	0.010
Sulfate	SO ₄ (mg/L)	47.8		97.1	0.000
Fats, Oils, and Greases	FOG (mg/L)	-		-	-
Total Phosphorus	T.P (mg/L)	0.117		0.864	0.001
Total Cyanide	CN (mg/L)	0.004		0.005	0.221
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	0.532
Fluoride	F (mg/L)	0.208		0.788	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 12 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Total Organic Carbon	TOC (mg/L)	9.83		9.83	0.141
Fecal Coliform*	FC (#/100 ml)	2395		475	0.307
Escherichia Coli*	EColi (#/100 ml)	2097		425	0.322
Total Calcium	Ca (mg/L)	63.2		74.4	0.398
Soluble Calcium	Sol.Ca (mg/L)	57.1		70.5	0.426
Total Magnesium	Mg (mg/L)	22.5		27.9	0.326
Soluble Magnesium	Sol.Mg (mg/L)	20.1		26.1	0.543
Hardness	Hard (mg/L)	250		301	0.365
Gross Alpha Radioactivity	G.Alpha (pCi/L)	6.03		4.43	0.673
Gross Beta Radioactivity	G.Beta (pCi/L)	8.82		15.24	0.003
Chlorophyll a	Chlrphl (µg/L)	14.3		2.8	0.002
Total Silver	Ag (mg/L)	0.001		0.002	0.473
Soluble Silver	Sol.Ag (mg/L)	0.002		0.001	0.248
Total Arsenic	As (mg/L)	0.000		0.002	0.556
Soluble Arsenic	Sol.As (mg/L)	0.000		0.002	0.556
Total Barium	Ba (mg/L)	0.060		0.030	0.006
Soluble Barium	Sol.Ba (mg/L)	0.048		0.022	0.006
Total Boron	B (mg/L)	0.074		0.335	0.001
Soluble Boron	Sol.B (mg/L)	0.057		0.306	0.001
Total Cadmium	Cd (mg/L)	0.002		0.001	0.469
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.001	0.377
Total Copper	Cu (mg/L)	0.019		0.018	0.706
Soluble Copper	Sol.Cu (mg/L)	0.007		0.006	0.872
Total Chromium	Cr (mg/L)	0.004		0.004	0.797

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 12 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2002

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob ¹
Soluble Chromium	Sol.Cr (mg/L)	0.002		0.003	0.709
Total Hexavalent Chromium	Cr ⁺⁶ (μg/L)	0.000		0.000	1.000
Total Iron	Fe (mg/L)	1.179		0.417	0.004
Soluble Iron	Sol.Fe (mg/L)	0.123		0.134	0.482
Total Lead	Pb (mg/L)	0.002		0.002	1.000
Soluble Lead	Sol.Pb (mg/L)	0.000		0.001	0.607
Total Nickel	Ni (mg/L)	0.005		0.009	0.073
Soluble Nickel	Sol.Ni (mg/L)	0.002		0.007	0.022
Total Manganese	Mn (mg/L)	0.120		0.048	0.009
Soluble Manganese	Sol.Mn (mg/L)	0.073		0.022	0.010
Total Mercury	Hg (μg/L)	0.030		0.018	0.371
Soluble Mercury	Sol.Hg (μg/L)	0.033		0.005	0.242
Total Zinc	Zn (mg/L)	0.040		0.075	0.013
Soluble Zinc	Sol.Zn (mg/L)	0.013		0.048	0.000
Total Selenium	Se (mg/L)	0.008		0.010	0.789
Soluble Selenium	Sol.Se (mg/L)	0.002		0.006	0.440

¹Significance probability ≤ 0.05 indicates that up and down population means are not equal.

*Geometric Mean

- = No data or statistics, or applicable test exists.

concentrations for some parameters, and about the same for the other parameters. This is indicated by the value of significance probability given in Tables 8 through 12. A value of 0.05 or smaller indicates that the two means are significantly different, and a value greater than 0.05 indicates no difference between means.

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

1. Identify the type of parameters which 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.

A study of the concentrations of various water quality parameters presented in Tables 8 through 12, and the Appendix II tables reveal that the quality of effluents from the District's

WRPs is high in most cases. This conclusion is based on the interpretation of the statistical inferences.

In general, statistically significant differences exist between upstream and downstream locations for those parameters that are affected by the wastewater treatment technology. 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 which have a water quality limit to comply with, are identified for each WRP.

NORTH SIDE WRP

Location 35 of the North Side WRP is classified as General Use Waters, and location 36 is classified as Secondary Contact Waters sections of the Chicago River System. The following 27 water quality parameters mean concentrations are significantly different between upstream and downstream locations:

- Biochemical oxygen demand, pH, alkalinity (total), chloride, total Kjeldahl nitrogen, ammonium nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, sulfate, total phosphorus,

total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium, soluble calcium, total magnesium, soluble magnesium, hardness, gross beta radioactivity, total barium, total boron, soluble boron, soluble nickel, total zinc, and soluble zinc.

The downstream average concentrations of all parameters were significantly higher than the upstream averages except for pH, and total barium, which have a significantly lower average concentration downstream than upstream.

Among the 27 parameters listed above, 12 parameters have either IPCB General Use or Secondary Contact Water quality limits. These parameters are:

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

At location 35, 10 parameters were in total compliance:

- pH, chloride, ammonium nitrogen, sulfate, weak acid dissociable cyanide, fluoride, gross beta

radioactivity, total barium, total boron and total zinc.

The percent compliance for fecal coliform was 33.3 percent. General Use waters do not have an IPCB cyanide water quality limit.

At location 36, 5 parameters have Secondary Contact Water quality limits. These parameters are:

- pH, total cyanide, fluoride, total barium, and total zinc.

All 5 parameters were in total compliance with IPCB standards.

STICKNEY WRP

Both locations of Stickney (75 and 41) are classified as Secondary Contact Waters sections of the Chicago River Systems. Seventeen water quality parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Dissolved oxygen, turbidity, ammonium nitrogen, nitrite plus nitrate nitrogen, total suspended solids, sulfate, fluoride, fecal coliform, escherichia coli, chlorophyll a, total barium, soluble barium, total boron, soluble boron,

total iron, total manganese, and soluble manganese.

The downstream averages of 8 parameters were significantly higher than the upstream averages. These parameters were:

- Dissolved oxygen, nitrite plus nitrate nitrogen, sulfate, fluoride, fecal coliform, escherichia coli, total boron, and soluble boron.

Nine parameters had a significantly lower average downstream than upstream. These parameters were:

- Turbidity, ammonia nitrogen, total suspended solids, chlorophyll a, total barium, soluble barium, total iron, total manganese, and soluble manganese.

Among the 17 parameters listed above, dissolved oxygen, fluoride, total barium, total iron, and total manganese have Secondary Contact Water quality limits. Dissolved oxygen had 83.3 percent compliance at the upstream location and total compliance at the downstream location. Fluoride, total barium, total copper, total iron, and total manganese were in complete compliance at both locations.

CALUMET WRP

Locations 56 and 76 are classified as Secondary Contact Waters of Calumet River System. Twenty-one water quality parameters had significantly different mean concentrations between upstream and downstream locations. These parameters were:

- Dissolved oxygen, turbidity, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total suspended solids, phenols, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, escherichia coli, gross beta activity, chlorophyll a, total barium, soluble barium, total iron, soluble manganese, and soluble zinc.

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

- total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, phenols, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal

coliform, escherichia coli, gross beta activity, soluble manganese, and soluble zinc.

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

- Dissolved oxygen, turbidity, total suspended solids, chlorophyll a, total barium, soluble barium, and total iron.

Among the 21 parameters listed above, 6 parameters have Secondary Contact Water quality limits. These parameters were:

- Dissolved oxygen, phenols, total cyanide, fluoride, total barium, and total iron.

Total iron had 91.7 percent compliance at the upstream location, and total compliance at the downstream location. The remaining 5 parameters had complete compliance at both locations.

JOHN E. EGAN WRP

Both locations (79 and 80) of John E. Egan WRP are classified as General Use Waters of the Des Plaines River System. Seventeen water quality parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, chlorophyll a, total barium, soluble barium, total boron, soluble boron, soluble copper, total iron, total manganese, and soluble zinc.

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

- Nitrite plus nitrate nitrogen, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total boron, soluble boron, soluble copper, and soluble zinc.

Eight parameters had significantly lower mean concentrations at the downstream location than the upstream location. These parameters were:

- Turbidity, total suspended solids, volatile suspended solids, chlorophyll a, total barium, soluble barium, total iron, and total manganese.

Among the 17 parameters listed above which had significantly different mean concentrations between the upstream and

the downstream locations, 6 parameters have applicable General Use Water quality limits. These parameters are:

- Weak acid dissociable cyanide, fluoride, total barium, total boron, total iron, and total manganese.

Total iron had 25.0 percent compliance at the upstream location, and complete compliance at the downstream location. Each of the remaining five parameters had complete compliance at both locations.

JAMES C. KIRIE WRP

Locations 77 and 78 of the James C. Kirie WRP are classified as General Use Waters of the Des Plaines River System.

Twenty parameters had significantly different mean concentrations between the upstream and the downstream locations.

These parameters were:

- Turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, phenols, sulfate, total phosphorus, fluoride, gross beta radioactivity, chlorophyll a, total barium, soluble barium, total boron, soluble boron, total iron, soluble nickel, total manga-

nese, soluble manganese, total zinc, and soluble zinc.

Eleven parameters had significantly higher mean concentrations at the downstream location than the upstream location. These parameters were:

- Nitrite plus nitrate nitrogen, phenols, sulfate, total phosphorus, fluoride, gross beta radioactivity, total boron, soluble boron, soluble nickel, total zinc, and soluble zinc.

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

- Turbidity, total suspended solids, volatile suspended solids, Chlorophyll a, total barium, soluble barium, total iron, total manganese, and soluble manganese.

Among the 20 parameters listed above, 9 parameters have General Use Water quality limits. These parameters are:

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

Total iron had 50.0 percent compliance at the upstream location and 91.7 percent compliance at the downstream loca-

tion. Each of the remaining 8 parameters had complete compliance at both locations.

HANOVER PARK WRP

Both locations (63 and 89) of the Hanover Park WRP are classified as General Use Waters of the Des Plaines River System. No sample was taken at location 63, the upstream location of Hanover Park WRP in 2002, because the water level at this location was too low to obtain a representative water sample without being contaminated by sediments. Therefore, no comparison of mean concentrations between upstream and downstream locations was made.

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APPENDIX I

WATERWAYS DATA MANAGEMENT SYSTEM DESCRIPTION

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1

DIRECTORY OF WATER QUALITY PARAMETERS ASSAYED IN 2002

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
BOD ₅	Biochemical Oxygen Demand	mg/L	None	None
CBOD ₅	Carbonaceous Biochemical-Oxygen Demand	mg/L	None	None
DO	Dissolved Oxygen	mg/L	5.00	4.00
Temp	Temperature	°C	16.0 (32.0 Apr-Nov)	37.8
pH	pH		6.5-9.0	6.0-9.0
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	15.000	None
NH ₃ -N	Un-ionized Ammonia	mg/L	0.14 (0.33 Apr-Oct)	0.100
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	100.0	300.0
SO ₄	Sulfate	mg/L	500.0	None
FOG	Fats, Oils, and Greases	mg/L	None	15.00
T.P	Total Phosphorus	mg/L	None	None
CN	Total Cyanide	mg/L	None	0.100
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.022	None
F	Fluoride	mg/L	1.400	15.000
TOC	Total Organic Carbon	mg/L	None	None
FC	Fecal Coliform	#/100 ml	400	None
EColi	Escherichia Coli	#/100 ml	None	None
Ca	Total Calcium	mg/L	None	None
Sol.Ca	Soluble Calcium	mg/L	None	None
Mg	Total Magnesium	mg/L	None	None
Sol.Mg	Soluble Magnesium	mg/L	None	None
Hard	Hardness	mg/L	None	None
G.Alpha	Gross Alpha Radioactivity	pCi/L	None	None
G.Beta	Gross Beta Radioactivity	pCi/L	100.00	None

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1 (Continued)

DIRECTORY OF WATER QUALITY PARAMETERS ASSAYED IN 2002

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Chlrphl	Chlorophyll a	µg/L	None	None
Ag	Total Silver	mg/L	0.005	1.100
Sol.Ag	Soluble Silver	mg/L	None	None
As	Total Arsenic	mg/L	0.360	1.000
Sol.As	Soluble Arsenic	mg/L	None	None
Ba	Total Barium	mg/L	5.000	5.000
Sol.Ba	Soluble Barium	mg/L	None	None
B	Total Boron	mg/L	1.000	None
Sol.B	Soluble Boron	mg/L	None	None
Cd	Total Cadmium	mg/L	$\min(e^{-2.918+1.128 \cdot \ln(\text{Hard})}/1000, 0.05)$	0.150
Sol.Cd	Soluble Cadmium	mg/L	None	None
Cu	Total Copper	mg/L	$e^{-1.464+0.942 \cdot \ln(\text{Hard})}/1000$	1.000
Sol.Cu	Soluble Copper	mg/L	None	None
Cr	Total Chromium	mg/L	$e^{3.588+0.819 \cdot \ln(\text{Hard})}/1000$	1.000
Sol.Cr	Soluble Chromium	mg/L	None	None
Cr ⁶	Total Hexavalent Chromium	µg/L	None	None
Fe	Total Iron	mg/L	1.000	2.000
Sol.Fe	Soluble Iron	mg/L	1.000	0.500
Pb	Total Lead	mg/L	$e^{-1.301+1.273 \cdot \ln(\text{Hard})}/1000$	0.100
Sol.Pb	Soluble Lead	mg/L	None	None
Ni	Total Nickel	mg/L	1.000	1.000
Sol.Ni	Soluble Nickel	mg/L	None	None
Mn	Total Manganese	mg/L	1.000	1.000
Sol.Mn	Soluble Manganese	mg/L	None	None
Hg	Total Mercury	µg/L	2.600	0.500
Sol.Hg	Soluble Mercury	µg/L	None	None
Zn	Total Zinc	mg/L	1.000	1.000
Sol.Zn	Soluble Zinc	mg/L	None	None
Se	Total Selenium	mg/L	1.000	1.000
Sol.Se	Soluble Selenium	mg/L	None	None

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-2

DIRECTORY OF SAMPLING STATIONS IN WATER QUALITY NETWORK

<u>Sampling Station</u>		Type	Water	River
No.	Name	Sample	Use	System
1	Wilmette Harbor*	Auto	GEN	Chicago
2	Outer Drive Bridge*	Auto	GEN	Chicago
3	South District Water Filtration Plant*	Auto	GEN	Chicago
4	O'Brien Locks*	Auto	SEC	Chicago
5	Ohio Street*	Auto	SEC	Chicago
6	Willow Springs Road*	Auto	SEC	Chicago
7	Highway 83 and Archer*	Auto	SEC	Chicago
9	North Side WRP, Outfall*	Auto	EFF	Chicago
10	Southwest WRP, Outfall*	Auto	EFF	Chicago
11	Calumet WRP, Outfall*	Auto	EFF	Calumet
12	Lake-Cook Road, Buffalo Creek	Grab	GEN	Des Plaines
13	Lake-Cook Road, Des Plaines River	Grab	GEN	Des Plaines
14	Hintz Road, Wheeling Drain Ditch*	Grab	GEN	Des Plaines
15	Palatine Road, Des Plaines River*	Grab	GEN	Des Plaines
16	Central Road, Des Plaines River*	Grab	GEN	Des Plaines
17	Oakton 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 and Des Plaines River*	Grab	GEN	Des Plaines
29	Stephen Street, Des Plaines River	Grab	GEN	Des Plaines
30	Lake-Cook Road, West Fork North Branch*	Grab	GEN	Chicago
31	Lake-Cook Road, Middle Fork North Branch	Grab	GEN	Chicago
32	Lake-Cook Road, Skokie River	Grab	GEN	Chicago
33	East Lake Avenue, Middle Fork North Branch*	Grab	GEN	Chicago
34	Dempster Street, North Branch Chicago River	Grab	GEN	Chicago
35	Central Street, North Shore Channel	Grab	GEN	Chicago
36	Touhy Avenue, North Shore Channel	Grab	SEC	Chicago
37	Wilson Avenue, North Branch Chicago River	Grab	SEC	Chicago
38	Ohio Street, North Branch Chicago River*	Grab	SEC	Chicago

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-2 (Continued)

DIRECTORY OF SAMPLING STATIONS IN WATER QUALITY NETWORK

<u>Sampling Station</u>		Type	Water	River
No.	Name	Sample	Use	System
39	Madison Street, South Branch Chicago River	Grab	SEC	Chicago
40	Damen Avenue, Chicago Sanitary and Ship Canal*	Grab	SEC	Chicago
41	Harlem Avenue, Chicago Sanitary and Ship Canal	Grab	SEC	Chicago
42	Route 83, Chicago Sanitary and 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 and 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 and Ship Canal*	Grab	SEC	Chicago
63	Longmeadow Lane, West Branch Du Page River*	Grab	GEN	Des Plaines
64	Lake Street, West Branch Du Page River	Grab	GEN	Des Plaines
65	Oltendorf Road, Poplar Creek*	Grab	GEN	Des Plaines
66	Bartlett Road, Poplar Creek*	Grab	GEN	Des Plaines
67	171st Street, Union Drainage Ditch*	Grab	GEN	Calumet
68	Park Street, Union Drainage Ditch*	Grab	GEN	Calumet
69	Lincoln Highway, Deer Creek*	Grab	GEN	Calumet
70	Joe Orr Road, Deer Creek*	Grab	GEN	Calumet
71	Route 83, Chicago Sanitary and Ship Canal*	Grab	SEC	Chicago
72	Stephen Street, Chicago Sanitary and 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 and Ship Canal	Grab	SEC	Chicago

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-2 (Continued)

DIRECTORY OF SAMPLING STATIONS IN WATER QUALITY NETWORK

Sampling Station		Type	Water	River
No.	Name	Sample	Use	System
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 and 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 Du Page 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 and Ship Canal	Grab	SEC	Chicago
93	Jefferson Street, Joliet, Des Plaines River ¹	Grab	SEC	Des Plaines
94	Empress Casino, Des Plaines River ¹	Grab	SEC	Des Plaines
95	I-55, Des Plaines River ¹	Grab	SEC	Des Plaines
96	Albany Avenue, North Branch Chicago River	Grab	GEN	Chicago
97	170th Street, Thorn Creek	Grab	GEN	Calumet
99	Archer Avenue, South Fork South Branch Chicago River	Grab	SEC	Chicago
100	Wells Street, Chicago River	Grab	GEN	Chicago
101	Foster Avenue, North Shore Channel	Grab	SEC	Chicago
102	Oakton Street, North Shore Channel	Grab	GEN	Chicago
103	Golf Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
104	Glenview Road, North Branch Chicago River	Grab	GEN	Chicago
105	Frontage Road, Skokie River	Grab	GEN	Chicago
106	Dundee Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
107	Western Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
108	Loomis Street, South Branch Chicago River	Grab	SEC	Chicago
109	Brookfield Avenue, Salt Creek	Grab	GEN	Des Plaines

GEN: General Use; SEC: Secondary Contact; EFF: Effluent.

*Excluded in 2002 Sampling.

¹Kept for Special Studies Separately.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-3

DIRECTORY OF SAMPLING LOCATIONS IN 2001 AND 2002

Location No.	Location Sampled in 2001	Location Sampled in 2002
<u>Chicago River System</u>		
30	Lake-Cook Road, West Fork North Branch	Not Sampled
106	Dundee Road, West Fork North Branch Chicago River	Dundee Road, West Fork North Branch Chicago River
103	Golf Road, West Fork North Branch Chicago River	Golf Road, West Fork North Branch Chicago River
31	Lake-Cook Road, Middle Fork North Branch	Lake-Cook Road, Middle Fork North Branch
104	Glenview Road, North Branch Chicago River	Glenview Road, North Branch Chicago River
32	Lake-Cook Road, Skokie River	Lake-Cook Road, Skokie River
105	Frontage Road, Skokie River	Frontage Road, Skokie River
34	Dempster Street, North Branch Chicago River	Dempster Street, North Branch Chicago River
96	Albany Avenue, North Branch Chicago River	Albany Avenue, North Branch Chicago River
35	Central Street, North Shore Channel	Central Street, North Shore Channel
102	Oakton Street, North Shore Channel	Oakton Street, North Shore Channel
36	Touhy Avenue, North Shore Channel	Touhy Avenue, North Shore Channel
101	Foster Avenue, North Shore Channel	Foster Avenue, North Shore Channel
37	Wilson Avenue, North Branch Chicago River	Wilson Avenue, North Branch Chicago River
73	Diversey Parkway, North Branch Chicago River	Diversey Parkway, North Branch Chicago River
46	Grand Avenue, North Branch Chicago River	Grand Avenue, North Branch Chicago River
74	Lake Shore Drive, Chicago River	Lake Shore Drive, Chicago River
100	Wells Street, Chicago River	Wells Street, Chicago River
39	Madison Street, South Branch Chicago River	Madison Street, South Branch Chicago River
108	Loomis Street, South Branch Chicago River	Loomis Street, South Branch Chicago River
99	Archer Avenue, South Fork South Branch Chicago Ri	Archer Avenue, South Fork South Branch Chicago River
107	Western Avenue, Chicago Sanitary & Ship Canal	Western Avenue, Chicago Sanitary & Ship Canal
75	Cicero Avenue, Chicago Sanitary & Ship Canal	Cicero Avenue, Chicago Sanitary & Ship Canal
41	Harlem Avenue, Chicago Sanitary & Ship Canal	Harlem Avenue, Chicago Sanitary & Ship Canal
42	Route 83, Chicago Sanitary & Ship Canal	Route 83, Chicago Sanitary & Ship Canal
48	Stephen Street, Chicago Sanitary & Ship Canal	Stephen Street, Chicago Sanitary & Ship Canal
92	Lockport Forebay, Chicago Sanitary & Ship Canal	Lockport Forebay, Chicago Sanitary & Ship Canal
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	Ewing Avenue, Calumet River
50	Burnham Avenue, Wolf Lake	Burnham Avenue, Wolf Lake
55	130th Street, Calumet River	130th Street, Calumet River
86	Burnham Avenue, Grand Calumet River	Burnham Avenue, Grand Calumet River
56	Indiana Avenue, Little Calumet River	Indiana Avenue, Little Calumet River
76	Halsted Street, Little Calumet River	Halsted Street, Little Calumet River
52	Wentworth Avenue, Little Calumet River	Wentworth Avenue, Little Calumet River
54	Joe Orr Road, Thorn Creek	Joe Orr Road, Thorn Creek
97	170th Street, Thorn Creek	170th Street, Thorn Creek
57	Ashland Avenue, Little Calumet River	Ashland Avenue, Little Calumet River
58	Ashland Avenue, Cal-Sag Channel	Ashland Avenue, Calumet Sag Channel
59	Cicero Avenue, Cal-Sag Channel	Cicero Avenue, Calumet Sag Channel
43	Route 83, Cal-Sag Channel	Route 83, Calumet Sag Channel
<u>Des Plaines River System</u>		
90	Route 19, Poplar Creek	Route 19, Poplar Creek
63	Longmeadow Lane, West Branch Du Page River	Not Sampled
89	Walnut Lane, West Branch Du Page River	Walnut Lane, West Branch Du Page River
64	Lake Street, West Branch Du Page River	Lake Street, West Branch Du Page River
79	Higgins Road, Salt Creek	Higgins Road, Salt Creek
80	Arlington Heights Road, Salt Creek	Arlington Heights Road, Salt Creek
18	Devon Avenue, Salt Creek	Devon Avenue, Salt Creek
24	Wolf Road, Salt Creek	Wolf Road, Salt Creek
21	First Avenue, Salt Creek	First Avenue, Salt Creek
109	Did not exist	Brookfield Avenue, Salt Creek
77	Elmhurst Road, Higgins Creek	Elmhurst Road, Higgins Creek
78	Wille Road, Higgins Creek	Wille Road, Higgins Creek
12	Lake-Cook Road, Buffalo Creek	Lake-Cook Road, Buffalo Creek
13	Lake-Cook Road, Des Plaines River	Lake-Cook Road, Des Plaines River
17	Oakton Street, Des Plaines River	Oakton Street, Des Plaines River
19	Belmont Avenue, Des Plaines River	Belmont Avenue, Des Plaines River
20	Roosevelt Road, Des Plaines River	Roosevelt Road, Des Plaines River
22	Ogden Avenue, Des Plaines River	Ogden Avenue, Des Plaines River
23	Willow Springs Road, Des Plaines River	Willow Springs Road, Des Plaines River
29	Stephen Street, Des Plaines River	Stephen Street, Des Plaines River
91	Material Service Road, Des Plaines River	Material Service Road, Des Plaines River
93	Jefferson Street, Joliet, Des Plaines River ¹	Not Sampled ¹
94	Empress Casino, Des Plaines River ¹	Not Sampled ¹
95	I-55, Des Plaines River ¹	Not Sampled ¹

¹Kept for Special Studies Separately.

APPENDIX II

WATER QUALITY RESULTS

ANNUAL MEAN, STANDARD COMPLIANCE VIOLATION HISTORY, AND
MEAN HISTORY

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>	BOD ₅	CBOD ₅	DO	Temp	pH
No. Name	mg/L	mg/L	mg/L	°C	
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	9.12	10.8	7.54
103 Golf Road, West Fork North Branch Chicago River	ND	ND	7.10	12.5	7.77
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	6.55	11.7	7.44
104 Glenview Road, North Branch Chicago River	ND	ND	8.08	10.4	7.73
32 Lake-Cook Road, Skokie River	ND	ND	7.14	11.9	7.43
105 Frontage Road, Skokie River	ND	ND	8.15	12.7	7.69
34 Dempster Street, North Branch Chicago River	ND	ND	7.75	12.3	7.59
96 Albany Avenue, North Branch Chicago River	3.50	2.36	7.71	12.9	7.81
35 Central Street, North Shore Channel	2.56	1.11	7.34	14.3	7.90
102 Oakton Street, North Shore Channel	3.45	1.91	6.58	14.9	7.36
36 Touhy Avenue, North Shore Channel	6.58	2.00	6.90	16.5	7.38
101 Foster Avenue, North Shore Channel	6.58	2.33	6.53	15.3	7.28
37 Wilson Avenue, North Branch Chicago River	4.92	2.08	6.74	15.1	7.44
73 Diverssy Parkway, North Branch Chicago River	3.00	1.33	5.74	15.2	7.45
46 Grand Avenue, North Branch Chicago River	1.83	0.50	5.86	15.3	7.36
74 Lake Shore Drive, Chicago River	2.08	1.50	9.02	12.8	7.43
100 Wells Street, Chicago River	2.33	1.64	7.82	13.9	7.22
39 Madison Street, South Branch Chicago River	2.58	1.42	6.38	14.1	7.23
108 Loomis Street, South Branch Chicago River	2.92	1.50	5.86	17.8	7.25
99 Archer Avenue, South Fork South Branch Chicago River	4.83	2.25	3.91	17.2	7.13
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	3.75	1.75	5.60	17.1	7.10
75 Cicero Avenue, Chicago Sanitary & Ship Canal	2.58	0.75	5.18	18.8	7.16
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.25	0.50	6.95	16.9	7.17
42 Route 83, Chicago Sanitary & Ship Canal	2.58	0.58	6.09	16.6	7.22
48 Stephen Street, Chicago Sanitary & Ship Canal	1.25	0.50	5.73	16.4	7.26
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.74	0.40	5.32	18.7	7.27
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.92	0.83	9.65	12.7	7.55
50 Burnham Avenue, Wolf Lake	ND	ND	9.77	12.1	7.91
55 130th Street, Calumet River	1.67	1.25	9.17	12.3	7.87
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	6.22	12.9	7.73
56 Indiana Avenue, Little Calumet River	2.42	1.92	8.69	13.6	7.63
76 Halsted Street, Little Calumet River	1.58	0.67	6.92	14.8	7.35
52 Westworth Avenue, Little Calumet River	ND	ND	6.47	13.1	7.56
54 Joe Orr Road, Thorn Creek	ND	ND	8.54	15.0	7.37
97 170th Street, Thorn Creek	ND	ND	8.37	14.4	7.57
57 Ashland Avenue, Little Calumet River	2.17	1.58	7.29	12.9	7.55
58 Ashland Avenue, Calumet Sag Channel	1.25	0.67	6.48	14.5	7.37
59 Cicero Avenue, Calumet Sag Channel	2.50	0.92	6.85	16.3	7.07
43 Route 83, Calumet Sag Channel	1.58	0.83	6.93	14.9	6.99
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	ND	ND	8.94	16.3	7.64
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	ND	ND	7.64	15.5	7.46
64 Lake Street, West Branch Du Page River	ND	ND	8.38	14.7	7.66
79 Higgins Road, Salt Creek	ND	ND	7.59	18.9	7.74
80 Arlington Heights Road, Salt Creek	ND	ND	8.07	14.2	7.56
18 Devon Avenue, Salt Creek	ND	ND	7.96	14.6	7.26
24 Wolf Road, Salt Creek	ND	ND	7.79	12.3	7.45
109 Brookfield Avenue, Salt Creek	ND	ND	5.98	15.9	7.13
21 First Avenue, Salt Creek	ND	ND	10.90	3.4	7.40
77 Blmhurst Road, Higgins Creek	ND	ND	8.22	15.8	7.35
78 Wille Road, Higgins Creek	ND	ND	8.55	16.0	7.14
12 Lake-Cook Road, Buffalo Creek	ND	ND	8.60	13.7	7.80
13 Lake-Cook Road, Des Plaines River	ND	ND	9.35	12.2	7.52
27 Oakton Street, Des Plaines River	ND	ND	8.17	14.4	7.34
19 Belmont Avenue, Des Plaines River	ND	ND	7.74	12.1	7.40
20 Roosevelt Road, Des Plaines River	ND	ND	7.96	12.2	7.32
22 Ogden Avenue, Des Plaines River	ND	ND	9.34	11.3	7.49
23 Willow Springs Road, Des Plaines River	ND	ND	8.99	14.4	7.60
29 Stephen Street, Des Plaines River	ND	ND	9.52	12.3	7.82
91 Material Service Road, Des Plaines River	ND	ND	10.31	12.5	7.85

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

Sampling Station No. Name	Alk mg/L	Cl mg/L	Turb NTU	TKN mg/L	NH ₄ -N mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	187	293	19.2	1.52	0.145
103 Golf Road, West Fork North Branch Chicago River	185	244	20.7	2.01	0.797
31 Lake-Cook Road, Middle Fork North Branch	213	185	16.6	1.26	0.124
104 Glenview Road, North Branch Chicago River	183	171	15.3	1.21	0.086
32 Lake-Cook Road, Skokie River	210	190	13.4	1.18	0.110
105 Frontage Road, Skokie River	178	162	12.5	1.26	0.058
34 Dempster Street, North Branch Chicago River	180	205	18.0	1.58	0.361
96 Albany Avenue, North Branch Chicago River	176	223	14.5	1.39	0.241
35 Central Street, North Shore Channel	119	64	10.6	1.02	0.313
102 Oakton Street, North Shore Channel	130	99	14.1	1.81	0.696
36 Touhy Avenue, North Shore Channel	149	105	8.1	2.60	0.987
101 Foster Avenue, North Shore Channel	149	111	9.5	2.98	1.428
37 Wilson Avenue, North Branch Chicago River	148	133	11.3	2.60	1.153
73 Diversey Parkway, North Branch Chicago River	144	136	12.4	2.33	0.959
46 Grand Avenue, North Branch Chicago River	147	133	13.2	2.51	1.171
74 Lake Shore Drive, Chicago River	120	69	6.0	0.67	0.238
100 Wells Street, Chicago River	130	88	6.8	1.10	0.500
39 Madison Street, South Branch Chicago River	141	102	11.6	2.46	1.142
108 Loomis Street, South Branch Chicago River	154	122	10.0	2.03	0.988
99 Archer Avenue, South Fork South Branch Chicago River	148	127	10.4	2.62	1.122
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	150	122	11.0	2.20	0.968
75 Cicero Avenue, Chicago Sanitary & Ship Canal	153	130	10.6	2.15	0.869
41 Harlem Avenue, Chicago Sanitary & Ship Canal	137	124	8.3	1.68	0.534
42 Route 83, Chicago Sanitary & Ship Canal	140	144	8.6	1.97	0.655
48 Stephen Street, Chicago Sanitary & Ship Canal	158	156	9.9	1.91	0.717
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	141	151	10.0	1.66	0.502
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	110	40	7.5	0.35	0.063
50 Burnham Avenue, Wolf Lake	96	43	5.2	0.49	0.018
55 130th Street, Calumet River	117	68	9.4	0.71	0.098
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	176	200	9.3	2.89	0.952
56 Indiana Avenue, Little Calumet River	138	109	18.9	1.02	0.115
76 Halsted Street, Little Calumet River	156	127	10.3	1.38	0.188
52 Wentworth Avenue, Little Calumet River	225	189	22.6	1.58	0.230
54 Joe Orr Road, Thorn Creek	183	191	8.0	1.47	0.116
97 170th Street, Thorn Creek	190	194	14.9	1.46	0.253
57 Ashland Avenue, Little Calumet River	194	173	16.6	1.42	0.182
58 Ashland Avenue, Calumet Sag Channel	167	147	12.0	1.35	0.186
59 Cicero Avenue, Calumet Sag Channel	157	145	14.6	1.49	0.252
43 Route 83, Calumet Sag Channel	152	144	16.2	1.50	0.317
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	209	220	11.9	0.87	0.034
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	158	169	7.5	1.83	0.117
64 Lake Street, West Branch Du Page River	157	190	18.6	2.05	0.287
79 Higgins Road, Salt Creek	166	260	24.6	1.60	0.090
80 Arlington Heights Road, Salt Creek	151	213	6.8	1.83	0.299
18 Devon Avenue, Salt Creek	147	204	9.2	1.87	0.360
24 Wolf Road, Salt Creek	154	254	13.8	1.44	0.218
109 Brookfield Avenue, Salt Creek	128	135	12.9	1.40	0.178
21 First Avenue, Salt Creek	185	654	12.9	1.56	0.347
77 Elmhurst Road, Higgins Creek	139	460	22.2	1.31	0.107
78 Wille Road, Higgins Creek	181	259	6.9	1.65	0.211
12 Lake-Cook Road, Buffalo Creek	222	189	23.5	1.52	0.117
13 Lake-Cook Road, Des Plaines River	214	188	15.8	1.78	0.091
17 Oakton Street, Des Plaines River	206	224	15.6	1.52	0.071
19 Belmont Avenue, Des Plaines River	192	236	17.1	1.42	0.117
20 Roosevelt Road, Des Plaines River	199	265	16.1	1.35	0.097
22 Ogden Avenue, Des Plaines River	181	269	15.0	1.36	0.107
23 Willow Springs Road, Des Plaines River	177	226	15.8	1.57	0.072
29 Stephen Street, Des Plaines River	181	267	15.9	1.50	0.100
91 Material Service Road, Des Plaines River	185	251	16.9	1.49	0.057

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>		Un-ionized				TSS
		NH ₃ -N	ORG-N	NO ₂ +NO ₃	TS	
No.	Name	mg/L	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>						
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.001	1.38	4.00	926	39.8
103	Golf Road, West Fork North Branch Chicago River	0.008	1.21	4.03	749	28.5
31	Lake-Cook Road, Middle Fork North Branch	0.001	1.14	0.38	693	30.6
104	Glenview Road, North Branch Chicago River	0.001	1.12	4.67	631	25.9
32	Lake-Cook Road, Skokie River	0.001	1.07	0.46	661	18.1
105	Frontage Road, Skokie River	0.001	1.20	5.83	606	21.6
34	Dempster Street, North Branch Chicago River	0.003	1.22	4.57	688	30.2
96	Albany Avenue, North Branch Chicago River	0.004	1.15	4.24	724	24.4
35	Central Street, North Shore Channel	0.008	0.71	0.34	321	12.8
102	Oakton Street, North Shore Channel	0.006	1.11	3.66	416	20.5
36	Touhy Avenue, North Shore Channel	0.013	1.61	5.58	461	15.3
101	Poster Avenue, North Shore Channel	0.011	1.55	6.11	478	15.4
37	Wilson Avenue, North Branch Chicago River	0.010	1.45	5.84	520	18.5
73	Diversey Parkway, North Branch Chicago River	0.007	1.37	5.29	514	19.3
46	Grand Avenue, North Branch Chicago River	0.011	1.34	5.47	503	18.3
74	Lake Shore Drive, Chicago River	0.002	0.43	1.38	314	4.0
100	Wells Street, Chicago River	0.003	0.60	2.31	366	6.3
39	Madison Street, South Branch Chicago River	0.007	1.32	4.37	469	18.4
108	Loomis Street, South Branch Chicago River	0.014	1.04	4.27	475	12.2
99	Archer Avenue, South Fork South Branch Chicago River	0.010	1.50	3.55	476	14.4
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	0.009	1.23	4.24	482	19.3
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.019	1.28	4.10	498	15.1
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	1.15	6.81	506	11.6
42	Route 83, Chicago Sanitary & Ship Canal	0.004	1.31	6.24	557	11.5
48	Stephen Street, Chicago Sanitary & Ship Canal	0.005	1.19	5.77	582	13.4
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	1.16	5.94	576	15.1
<u>Calumet River System</u>						
49	Bwing Avenue, Calumet River	0.002	0.28	0.50	268	7.1
50	Burnham Avenue, Wolf Lake	0.001	0.47	0.10	247	3.6
55	130th Street, Calumet River	0.004	0.61	0.57	341	12.5
51	INB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.024	1.94	8.56	874	16.2
56	Indiana Avenue, Little Calumet River	0.002	0.90	2.38	475	27.8
76	Halsted Street, Little Calumet River	0.002	1.20	5.36	547	15.2
52	Wentworth Avenue, Little Calumet River	0.003	1.35	5.39	838	30.5
54	Joe Orr Road, Thorn Creek	0.001	1.36	9.86	1602	7.4
97	170th Street, Thorn Creek	0.004	1.21	7.13	1285	24.1
57	Ashland Avenue, Little Calumet River	0.002	1.24	4.35	913	23.0
58	Ashland Avenue, Calumet Sag Channel	0.002	1.16	5.39	708	17.3
59	Cicero Avenue, Calumet Sag Channel	0.001	1.24	5.39	618	21.1
43	Route 83, Calumet Sag Channel	0.001	1.18	4.67	621	25.9
<u>Des Plaines River System</u>						
90	Route 19, Poplar Creek	0.001	0.83	0.28	711	18.9
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.001	1.71	7.13	591	16.1
64	Lake Street, West Branch Du Page River	0.006	1.77	6.70	661	33.2
79	Higgins Road, Salt Creek	0.004	1.51	0.23	746	38.0
80	Arlington Heights Road, Salt Creek	0.002	1.53	7.69	666	8.3
18	Devon Avenue, Salt Creek	0.002	1.51	7.32	648	15.7
24	Wolf Road, Salt Creek	0.003	1.23	7.66	774	23.4
109	Brookfield Avenue, Salt Creek	0.000	1.23	8.16	565	18.7
21	First Avenue, Salt Creek	0.001	1.22	5.09	1387	20.7
77	Elmhurst Road, Higgins Creek	0.001	1.20	0.41	958	36.0
78	Wille Road, Higgins Creek	0.001	1.44	5.67	764	7.0
12	Lake-Cook Road, Buffalo Creek	0.005	1.40	0.22	764	32.4
13	Lake-Cook Road, Des Plaines River	0.002	1.69	6.05	707	28.7
17	Oakton Street, Des Plaines River	0.001	1.45	4.84	733	28.8
19	Belmont Avenue, Des Plaines River	0.001	1.30	4.62	758	28.5
20	Roosevelt Road, Des Plaines River	0.001	1.25	4.50	774	31.0
22	Ogden Avenue, Des Plaines River	0.001	1.26	5.21	833	23.2
23	Willow Springs Road, Des Plaines River	0.001	1.50	4.93	732	24.0
29	Stephen Street, Des Plaines River	0.002	1.40	5.18	754	28.3
91	Material Service Road, Des Plaines River	0.002	1.43	4.98	788	30.1

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>	VSS	TDS	Phenol	SO ₄	FOG
No. Name	mg/L	mg/L	µg/L	mg/L	mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	6.50	886	5.5	61.8	ND
103 Golf Road, West Fork North Branch Chicago River	5.64	721	7.6	64.5	ND
31 Lake-Cook Road, Middle Fork North Branch	6.00	663	11.6	72.3	ND
104 Glenview Road, North Branch Chicago River	5.22	605	5.2	64.1	ND
32 Lake-Cook Road, Skokie River	4.70	643	9.1	62.3	ND
105 Frontage Road, Skokie River	4.58	584	5.4	64.8	ND
34 Dempster Street, North Branch Chicago River	6.08	658	7.3	61.9	ND
96 Albany Avenue, North Branch Chicago River	5.33	700	6.6	69.0	ND
35 Central Street, North Shore Channel	3.78	309	4.5	34.9	ND
102 Oakton Street, North Shore Channel	5.27	395	6.0	43.3	ND
36 Touby Avenue, North Shore Channel	5.08	446	9.0	53.3	5.54
101 Foster Avenue, North Shore Channel	5.50	463	9.0	50.6	4.84
37 Wilson Avenue, North Branch Chicago River	4.75	501	8.3	57.1	5.45
73 Diversey Parkway, North Branch Chicago River	5.08	495	8.6	55.6	3.85
46 Grand Avenue, North Branch Chicago River	4.50	485	8.5	56.3	4.72
74 Lake Shore Drive, Chicago River	1.25	310	2.7	32.0	ND
100 Wells Street, Chicago River	1.67	360	3.8	36.6	ND
39 Madison Street, South Branch Chicago River	4.25	450	6.7	49.1	5.70
108 Loomis Street, South Branch Chicago River	2.33	463	7.4	49.3	4.68
99 Archer Avenue, South Fork South Branch Chicago River	4.25	462	9.5	51.6	4.41
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	4.50	463	7.5	49.5	4.37
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.00	483	7.7	54.3	5.57
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.92	495	6.8	69.4	5.16
42 Route 83, Chicago Sanitary & Ship Canal	2.42	546	8.7	78.5	5.31
48 Stephen Street, Chicago Sanitary & Ship Canal	2.58	566	8.3	88.1	4.10
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.48	561	7.5	88.7	4.76
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	1.42	261	1.7	28.4	ND
50 Burnham Avenue, Wolf Lake	1.58	243	3.8	36.6	ND
55 130th Street, Calumet River	2.67	329	1.8	54.7	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	7.09	858	6.1	219.9	5.76
56 Indiana Avenue, Little Calumet River	4.58	447	4.1	78.9	4.87
76 Halsted Street, Little Calumet River	3.67	532	9.4	91.2	4.39
52 Wentworth Avenue, Little Calumet River	5.45	808	16.5	146.0	ND
54 Joe Orr Road, Thorn Creek	2.71	1594	9.0	724.5	ND
97 170th Street, Thorn Creek	4.17	1261	8.0	445.9	ND
57 Ashland Avenue, Little Calumet River	4.75	890	8.4	241.9	ND
58 Ashland Avenue, Calumet Sag Channel	3.58	683	8.8	146.2	5.32
59 Cicero Avenue, Calumet Sag Channel	4.25	597	9.3	118.2	4.45
43 Route 83, Calumet Sag Channel	5.50	595	10.2	109.3	4.38
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	4.78	692	5.3	62.8	ND
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	4.58	575	7.8	65.3	ND
64 Lake Street, West Branch Du Page River	7.33	627	6.3	68.0	ND
79 Higgins Road, Salt Creek	9.38	708	6.1	76.0	ND
80 Arlington Heights Road, Salt Creek	3.30	658	6.6	79.3	ND
18 Devon Avenue, Salt Creek	4.10	632	5.1	79.5	ND
24 Wolf Road, Salt Creek	5.25	750	5.7	95.0	ND
109 Brookfield Avenue, Salt Creek	3.67	547	5.7	84.5	ND
21 First Avenue, Salt Creek	5.00	1366	4.7	95.8	ND
77 Elmhurst Road, Higgins Creek	6.83	922	5.8	47.8	ND
78 Wille Road, Higgins Creek	2.58	757	11.3	97.1	ND
12 Lake-Cook Road, Buffalo Creek	7.00	731	9.1	95.7	ND
13 Lake-Cook Road, Des Plaines River	7.50	678	4.6	84.9	ND
17 Oakton Street, Des Plaines River	7.09	704	6.4	86.3	ND
19 Belmont Avenue, Des Plaines River	5.75	730	5.3	85.6	ND
20 Roosevelt Road, Des Plaines River	6.08	743	5.3	87.4	ND
22 Ogden Avenue, Des Plaines River	5.33	790	5.0	87.5	ND
23 Willow Springs Road, Des Plaines River	6.00	708	5.6	90.0	ND
29 Stephen Street, Des Plaines River	6.58	726	5.2	90.6	ND
91 Material Service Road, Des Plaines River	7.50	758	5.1	95.8	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>	T.P	Tot-CN	WAD-CN	F	TOC
No. Name	mg/L	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.963	0.003	0.001	0.433	9.50
103 Golf Road, West Fork North Branch Chicago River	0.752	0.003	0.001	0.425	9.36
31 Lake-Cook Road, Middle Fork North Branch	0.155	0.002	0.000	0.343	11.40
104 Glenview Road, North Branch Chicago River	1.256	0.003	0.000	0.617	8.00
32 Lake-Cook Road, Skokie River	0.187	0.002	0.001	0.354	10.60
105 Frontage Road, Skokie River	1.477	0.002	0.000	0.792	8.92
34 Dempster Street, North Branch Chicago River	1.153	0.008	0.000	0.635	8.50
96 Albany Avenue, North Branch Chicago River	1.037	0.002	0.000	0.567	8.92
35 Central Street, North Shore Channel	0.101	0.000	0.000	0.307	5.33
102 Oakton Street, North Shore Channel	0.655	0.004	0.001	0.512	7.27
36 Touhy Avenue, North Shore Channel	1.057	0.004	0.001	0.745	8.83
101 Foster Avenue, North Shore Channel	1.148	0.004	0.001	0.745	8.67
37 Wilson Avenue, North Branch Chicago River	1.043	0.004	0.001	0.693	9.17
73 Diversay Parkway, North Branch Chicago River	0.905	0.003	0.001	0.684	9.25
46 Grand Avenue, North Branch Chicago River	0.953	0.004	0.001	0.717	8.50
74 Lake Shore Drive, Chicago River	0.191	0.001	0.000	0.238	4.42
100 Wells Street, Chicago River	0.429	0.002	0.001	0.423	5.33
39 Madison Street, South Branch Chicago River	0.756	0.004	0.001	0.590	7.75
108 Loomis Street, South Branch Chicago River	0.732	0.003	0.001	0.581	7.00
99 Archer Avenue, South Fork South Branch Chicago River	0.719	0.003	0.001	0.565	8.17
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.738	0.003	0.001	0.532	7.58
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.723	0.003	0.001	0.570	7.50
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.984	0.005	0.001	0.743	7.92
42 Route 83, Chicago Sanitary & Ship Canal	0.918	0.005	0.001	0.809	8.83
48 Stephen Street, Chicago Sanitary & Ship Canal	1.180	0.006	0.001	0.809	8.67
82 Lockport Treblez, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.197	0.005	0.001	0.802	8.26
<u>Calumet River System</u>					
49 Hwing Avenue, Calumet River	0.060	0.001	0.000	0.288	3.75
50 Burnham Avenue, Wolf Lake	0.035	0.001	0.000	0.213	5.50
55 130th Street, Calumet River	0.039	0.001	0.000	0.248	4.92
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.613	0.006	0.001	0.873	11.36
56 Indiana Avenue, Little Calumet River	0.495	0.002	0.000	0.394	6.42
76 Halsted Street, Little Calumet River	2.037	0.005	0.001	0.632	8.33
52 Wentworth Avenue, Little Calumet River	0.595	0.006	0.001	12.390	10.73
54 Joe Orr Road, Thorn Creek	5.909	0.006	0.001	0.745	10.43
97 170th Street, Thorn Creek	2.607	0.004	0.001	1.612	9.17
57 Ashland Avenue, Little Calumet River	1.481	0.005	0.001	2.865	9.00
58 Ashland Avenue, Calumet Sag Channel	2.070	0.005	0.001	1.188	8.75
59 Cicero Avenue, Calumet Sag Channel	2.129	0.005	0.001	0.935	8.67
43 Route 83, Calumet Sag Channel	1.814	0.004	0.001	0.925	8.25
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.066	0.002	0.001	0.234	9.22
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	2.602	0.007	0.003	0.744	11.75
64 Lake Street, West Branch Du Page River	2.245	0.005	0.001	0.631	10.25
79 Higgins Road, Salt Creek	0.109	0.002	0.001	0.237	10.00
80 Arlington Heights Road, Salt Creek	1.992	0.005	0.002	0.602	10.50
18 Devon Avenue, Salt Creek	1.955	0.005	0.002	0.578	9.80
24 Wolf Road, Salt Creek	1.773	0.004	0.001	0.634	8.45
109 Brookfield Avenue, Salt Creek	1.943	0.003	0.001	0.698	8.83
21 First Avenue, Salt Creek	1.043	0.006	0.001	0.447	9.67
77 Elmhurst Road, Higgins Creek	0.117	0.004	0.001	0.208	9.83
78 Wille Road, Higgins Creek	0.864	0.005	0.001	0.788	9.83
12 Lake-Cook Road, Buffalo Creek	0.120	0.001	0.000	0.324	12.29
13 Lake-Cook Road, Des Plaines River	1.268	0.003	0.001	0.508	9.25
17 Oakton Street, Des Plaines River	1.033	0.003	0.001	0.489	9.55
19 Belmont Avenue, Des Plaines River	0.883	0.003	0.001	0.502	9.67
20 Roosevelt Road, Des Plaines River	0.875	0.004	0.001	0.516	9.33
22 Ogden Avenue, Des Plaines River	1.095	0.003	0.001	0.541	9.25
23 Willow Springs Road, Des Plaines River	1.060	0.003	0.001	0.557	9.00
29 Stephen Street, Des Plaines River	0.998	0.004	0.001	0.516	9.00
91 Material Service Road, Des Plaines River	0.969	0.004	0.001	0.518	8.83

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u> No. Name	FC [*] #/100ml	EColi [*] #/100ml	Ca mg/L	Sol.Ca mg/L	Mg mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1344	ND	79.0	73.3	34.0
103 Golf Road, West Fork North Branch Chicago River	704	506	72.8	66.2	30.5
31 Lake-Cook Road, Middle Fork North Branch	1143	429	71.9	65.9	33.0
104 Glenview Road, North Branch Chicago River	904	254	69.0	63.7	29.6
32 Lake-Cook Road, Skokie River	718	581	75.4	69.8	33.5
105 Frontage Road, Skokie River	357	387	67.7	62.0	29.2
34 Dempster Street, North Branch Chicago River	924	534	70.0	63.1	29.8
96 Albany Avenue, North Branch Chicago River	1508	1553	69.2	64.7	29.3
35 Central Street, North Shore Channel	483	4382	43.6	39.5	15.2
102 Oakton Street, North Shore Channel	1954	1409	51.9	47.4	17.9
36 Touhy Avenue, North Shore Channel	8349	9539	58.5	54.8	21.2
101 Foster Avenue, North Shore Channel	10250	14164	58.8	54.4	21.3
37 Wilson Avenue, North Branch Chicago River	7358	9158	60.9	55.8	22.8
73 Diversay Parkway, North Branch Chicago River	5833	6747	61.7	55.1	23.1
46 Grand Avenue, North Branch Chicago River	1919	2128	60.2	55.1	22.5
74 Lake Shore Drive, Chicago River	36	20	43.1	40.2	14.7
100 Wells Street, Chicago River	288	307	49.3	43.9	17.4
39 Madison Street, South Branch Chicago River	800	565	57.3	53.3	21.1
108 Loomis Street, South Branch Chicago River	253	176	56.8	52.9	21.0
99 Archer Avenue, South Fork South Branch Chicago River	548	173	56.7	50.9	20.6
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	180	342	57.8	53.0	21.4
75 Cicero Avenue, Chicago Sanitary & Ship Canal	245	224	59.9	52.5	21.9
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3609	2925	57.3	52.4	21.1
42 Route 83, Chicago Sanitary & Ship Canal	460	715	58.7	54.1	21.8
48 Stephen Street, Chicago Sanitary & Ship Canal	419	530	61.6	55.8	22.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	159	177	62.6	56.4	23.0
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	12	10	41.1	36.4	13.2
50 Burnham Avenue, Wolf Lake	13	12	35.9	30.4	14.4
55 130th Street, Calumet River	19	14	47.2	42.4	15.9
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	488	449	79.6	75.5	67.1
56 Indiana Avenue, Little Calumet River	89	101	58.6	51.7	23.8
76 Halsted Street, Little Calumet River	2024	1815	64.8	60.1	23.0
52 Wentworth Avenue, Little Calumet River	976	846	94.5	87.2	38.4
54 Joe Orr Road, Thorn Creek	1083	721	85.5	79.1	38.4
97 170th Street, Thorn Creek	637	529	100.8	85.8	49.1
57 Ashland Avenue, Little Calumet River	576	615	86.5	80.2	37.3
58 Ashland Avenue, Calumet Sag Channel	1157	690	73.7	63.4	27.9
59 Cicero Avenue, Calumet Sag Channel	471	500	68.2	62.3	25.4
43 Route 83, Calumet Sag Channel	93	75	69.8	60.8	26.0
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	113	82	77.0	72.1	34.6
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	1600	1366	63.1	58.2	23.9
64 Lake Street, West Branch Du Page River	1532	1150	65.0	60.3	24.8
79 Higgins Road, Salt Creek	82	61	67.5	59.0	31.2
80 Arlington Heights Road, Salt Creek	303	209	68.7	63.8	27.0
18 Devon Avenue, Salt Creek	939	1146	68.2	63.5	26.6
24 Wolf Road, Salt Creek	440	336	73.7	69.6	30.1
109 Brookfield Avenue, Salt Creek	2056	ND	58.5	55.4	24.0
21 First Avenue, Salt Creek	782	330	92.5	84.9	37.4
77 Elmhurst Road, Higgins Creek	2395	2097	63.2	57.1	22.5
78 Wille Road, Higgins Creek	475	425	74.4	70.5	27.9
12 Lake-Cook Road, Buffalo Creek	485	101	83.1	76.2	39.0
13 Lake-Cook Road, Des Plaines River	284	569	76.8	70.2	35.1
17 Oakton Steet, Des Plaines River	345	553	75.6	68.7	33.9
19 Belmont Avenue, Des Plaines River	709	1018	74.7	68.5	33.0
20 Roosevelt Road, Des Plaines River	913	903	74.7	69.8	33.0
22 Ogden Avenue, Des Plaines River	900	837	73.8	69.2	31.6
23 Willow Springs Road, Des Plaines River	351	506	70.8	66.9	31.0
29 Stephen Street, Des Plaines River	276	641	76.6	70.4	32.7
91 Material Service Road, Des Plaines River	122	90	74.9	70.4	32.5

ND = No Data
*Geometric Mean

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

Sampling Station No. Name	Sol.Mg mg/L	Hard mg/L	Alpha pCi/L	Beta pCi/L	Chlrphl µg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	31.8	337	4.49	8.00	9.6
103 Golf Road, West Fork North Branch Chicago River	27.8	307	4.41	9.99	14.4
31 Lake-Cook Road, Middle Fork North Branch	30.6	316	3.82	6.64	11.6
104 Glenview Road, North Branch Chicago River	27.8	294	3.72	12.84	18.1
32 Lake-Cook Road, Skokie River	31.0	326	3.78	6.70	11.5
105 Frontage Road, Skokie River	27.2	289	3.79	8.46	21.5
34 Dempster Street, North Branch Chicago river	27.0	297	4.15	9.49	16.2
96 Albany Avenue, North Branch Chicago River	27.3	293	4.39	8.47	11.7
35 Central Street, North Shore Channel	13.8	171	3.40	6.79	12.5
102 Oakton Street, North Shore Channel	16.4	203	3.64	6.70	17.0
36 Touhy Avenue, North Shore Channel	19.9	233	3.72	7.94	1.5
101 Foster Avenue, North Shore Channel	19.7	235	ND	ND	1.9
37 Wilson Avenue, North Branch Chicago River	20.9	246	ND	ND	4.9
73 Diversey Parkway, North Branch Chicago River	20.4	249	ND	ND	3.9
46 Grand Avenue, North Branch Chicago River	20.3	243	ND	ND	3.6
74 Lake Shore Drive, Chicago River	13.7	168	3.27	4.87	2.7
100 Wells Street, Chicago River	15.5	195	3.45	5.36	3.0
39 Madison Street, South Branch Chicago River	19.8	230	ND	ND	4.6
108 Loomis Street, South Branch Chicago River	19.7	228	ND	ND	3.4
99 Archer Avenue, South Fork South Branch Chicago River	18.5	226	ND	ND	9.2
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	19.8	233	ND	ND	3.2
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.6	240	3.70	6.80	5.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.3	230	3.66	6.66	2.4
42 Route 83, Chicago Sanitary & Ship Canal	20.0	236	ND	ND	4.2
48 Stephen Street, Chicago Sanitary & Ship Canal	20.8	248	ND	ND	3.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	20.9	251	3.83	8.31	5.3
<u>Calumet River System</u>					
49 Zwing Avenue, Calumet River	11.8	157	3.00	4.31	1.7
50 Burnham Avenue, Wolf Lake	12.6	149	2.95	4.77	3.8
55 130th Street, Calumet River	14.5	183	3.30	5.72	9.9
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	64.5	475	ND	ND	31.1
56 Indiana Avenue, Little Calumet River	21.2	244	3.57	6.80	26.4
76 Halsted Street, Little Calumet River	21.5	256	3.72	9.00	9.1
52 Wentworth Avenue, Little Calumet River	35.5	394	4.46	12.46	5.7
54 Joe Orr Road, Thorn Creek	35.9	371	8.21	12.05	9.2
97 170th Street, Thorn Creek	42.6	454	5.67	12.41	10.4
57 Ashland Avenue, Little Calumet River	34.7	370	4.68	10.76	11.2
58 Ashland Avenue, Calumet Sag Channel	24.2	299	ND	ND	11.5
59 Cicero Avenue, Calumet Sag Channel	23.3	275	ND	ND	11.8
43 Route 83, Calumet Sag Channel	23.3	282	ND	ND	15.8
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	32.5	335	4.37	5.70	15.9
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	22.2	256	4.07	10.82	5.9
64 Lake Street, West Branch Du Page River	23.0	264	4.18	10.72	24.9
79 Higgins Road, Salt Creek	27.4	297	4.23	8.09	30.6
80 Arlington Heights Road, Salt Creek	25.5	283	4.00	9.12	12.9
18 Devon Avenue, Salt Creek	25.1	280	3.96	9.77	16.2
24 Wolf Road, Salt Creek	28.6	308	4.79	10.71	13.7
109 Brookfield Avenue, Salt Creek	22.9	245	3.38	10.31	12.8
21 First Avenue, Salt Creek	33.6	385	7.16	10.68	22.8
77 Elmhurst Road, Higgins Creek	20.1	250	6.03	8.82	14.3
78 Wille Road, Higgins Creek	26.1	301	4.43	15.24	2.8
12 Lake-Cook Road, Buffalo Creek	36.1	368	4.26	7.42	35.4
13 Lake-Cook Road, Des Plaines River	32.3	336	4.10	9.94	27.3
17 Oakton Street, Des Plaines River	31.4	328	4.50	9.39	20.5
19 Belmont Avenue, Des Plaines River	30.2	322	4.56	10.73	11.2
20 Roosevelt Road, Des Plaines River	30.9	323	4.92	10.38	10.0
22 Ogden Avenue, Des Plaines River	29.9	314	4.62	10.33	12.9
23 Willow Springs Road, Des Plaines River	29.5	305	4.17	10.28	20.6
29 Stephen Street, Des Plaines River	30.2	326	4.74	10.53	34.5
91 Material Service Road, Des Plaines River	30.8	321	4.13	9.88	35.3

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>	Ag	Sol.Ag	As	Sol.As	Ba
No. Name	mg/L	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	0.003	0.002	0.054
103 Golf Road, West Fork North Branch Chicago River	0.003	0.001	0.000	0.001	0.051
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.000	0.000	0.002	0.045
104 Glenview Road, North Branch Chicago River	0.002	0.001	0.003	0.001	0.035
32 Lake-Cook Road, Skokie River	0.002	0.001	0.004	0.001	0.047
105 Frontage Road, Skokie River	0.002	0.002	0.002	0.002	0.032
34 Dempster Street, North Branch Chicago River	0.001	0.001	0.000	0.000	0.040
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.000	0.001	0.043
35 Central Street, North Shore Channel	0.001	0.001	0.002	0.000	0.030
102 Oakton Street, North Shore Channel	0.000	0.001	0.002	0.000	0.025
36 Touhy Avenue, North Shore Channel	0.002	0.001	0.002	0.000	0.024
101 Foster Avenue, North Shore Channel	0.001	0.001	0.000	0.001	0.024
37 Wilson Avenue, North Branch Chicago River	0.002	0.000	0.002	0.003	0.028
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.002	0.002	0.029
45 Grand Avenue, North Branch Chicago River	0.001	0.001	0.000	0.002	0.028
74 Lake Shore Drive, Chicago River	0.000	0.001	0.002	0.001	0.025
100 Wells Street, Chicago River	0.003	0.001	0.000	0.002	0.027
39 Madison Street, South Branch Chicago River	0.001	0.001	0.000	0.001	0.027
108 Loomis Street, South Branch Chicago River	0.003	0.002	0.000	0.000	0.027
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.001	0.006	0.001	0.029
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.002	0.002	0.029
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.001	0.005	0.000	0.029
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.001	0.005	0.002	0.023
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.002	0.000	0.003	0.023
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.002	0.002	0.004	0.024
82 Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.005	0.002	0.026
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.002	0.001	0.002	0.004	0.026
50 Burnham Avenue, Wolf Lake	0.001	0.001	0.006	0.001	0.029
55 130th Street, Calumet River	0.001	0.003	0.008	0.003	0.035
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.002	0.001	0.002	0.003	0.029
56 Indiana Avenue, Little Calumet River	0.001	0.002	0.006	0.002	0.037
76 Halsted Street, Little Calumet River	0.003	0.001	0.010	0.004	0.024
52 Wentworth Avenue, Little Calumet River	0.004	0.001	0.000	0.001	0.045
54 Joe Orr Road, Thorn Creek	0.003	0.000	0.017	0.003	0.030
97 170th Street, Thorn Creek	0.003	0.002	0.010	0.005	0.041
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.002	0.002	0.040
58 Ashland Avenue, Calumet Sag Channel	0.003	0.002	0.004	0.002	0.029
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	0.009	0.003	0.028
43 Route 83, Calumet Sag Channel	0.001	0.000	0.005	0.003	0.030
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.001	0.001	0.003	0.000	0.071
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.001	0.000	0.002	0.001	0.031
64 Lake Street, West Branch Du Page River	0.001	0.001	0.004	0.000	0.037
79 Higgins Road, Salt Creek	0.001	0.002	0.000	0.000	0.048
80 Arlington Heights Road, Salt Creek	0.000	0.002	0.002	0.004	0.030
18 Devon Avenue, Salt Creek	0.001	0.001	0.002	0.001	0.031
24 Wolf Road, Salt Creek	0.001	0.000	0.007	0.000	0.036
109 Brookfield Avenue, Salt Creek	0.000	0.002	0.000	0.000	0.028
21 First Avenue, Salt Creek	0.000	0.000	0.000	0.002	0.046
77 Elmhurst Road, Higgins Creek	0.001	0.002	0.000	0.000	0.060
78 Wille Road, Higgins Creek	0.002	0.001	0.002	0.002	0.030
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	0.000	0.055
13 Lake-Cook Road, Des Plaines River	0.003	0.000	0.007	0.002	0.044
17 Oakton Street, Des Plaines River	0.000	0.001	0.005	0.002	0.044
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.004	0.001	0.040
20 Roosevelt Road, Des Plaines River	0.000	0.002	0.000	0.000	0.042
22 Ogden Avenue, Des Plaines River	0.001	0.002	0.002	0.002	0.040
23 Willow Springs Road, Des Plaines River	0.001	0.001	0.003	0.000	0.038
29 Stephen Street, Des Plaines River	0.000	0.001	0.004	0.000	0.040
91 Material Service Road, Des Plaines River	0.000	0.001	0.003	0.001	0.039

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>	Sol.Ba	B	Sol.B	Cd	Sol.Cd
No. Name	mg/L	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.044	0.139	0.118	0.001	0.001
103 Golf Road, West Fork North Branch Chicago River	0.040	0.159	0.139	0.001	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.036	0.122	0.101	0.001	0.000
104 Glenview Road, North Branch Chicago River	0.027	0.167	0.148	0.001	0.000
32 Lake-Cook Road, Skokie River	0.039	0.120	0.102	0.001	0.000
105 Frontage Road, Skokie River	0.025	0.186	0.167	0.001	0.000
34 Dempster Street, North Branch Chicago River	0.030	0.172	0.151	0.001	0.000
96 Albany Avenue, North Branch Chicago River	0.032	0.169	0.148	0.001	0.000
35 Central Street, North Shore Channel	0.022	0.052	0.030	0.000	0.000
102 Oakton Street, North Shore Channel	0.019	0.118	0.104	0.001	0.000
36 Touhy Avenue, North Shore Channel	0.019	0.185	0.169	0.001	0.000
101 Foster Avenue, North Shore Channel	0.018	0.176	0.158	0.001	0.000
37 Wilson Avenue, North Branch Chicago River	0.021	0.160	0.144	0.001	0.000
73 Diversey Parkway, North Branch Chicago River	0.020	0.161	0.141	0.001	0.000
46 Grand Avenue, North Branch Chicago River	0.019	0.161	0.146	0.001	0.000
74 Lake Shore Drive, Chicago River	0.021	0.054	0.044	0.001	0.000
100 Wells Street, Chicago River	0.021	0.080	0.068	0.000	0.000
39 Madison Street, South Branch Chicago River	0.020	0.140	0.125	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.020	0.136	0.123	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.020	0.135	0.121	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.020	0.136	0.123	0.001	0.001
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.145	0.130	0.001	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.184	0.169	0.001	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.232	0.218	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.227	0.211	0.001	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.018	0.206	0.185	0.001	0.000
<u>Calumet River System</u>					
49 Swing Avenue, Calumet River	0.021	0.039	0.029	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.024	0.104	0.088	0.001	0.000
55 130th Street, Calumet River	0.029	0.120	0.108	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.017	0.383	0.358	0.001	0.000
56 Indiana Avenue, Little Calumet River	0.028	0.161	0.145	0.001	0.000
76 Halsted Street, Little Calumet River	0.018	0.201	0.186	0.001	0.000
52 Wentworth Avenue, Little Calumet River	0.032	0.321	0.296	0.001	0.001
54 Joe Orr Road, Thorn Creek	0.026	0.353	0.327	0.002	0.001
97 170th Street, Thorn Creek	0.029	0.332	0.290	0.001	0.000
57 Ashland Avenue, Little Calumet River	0.030	0.269	0.247	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.020	0.226	0.208	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.019	0.207	0.188	0.001	0.000
43 Route 83, Calumet Sag Channel	0.020	0.194	0.172	0.001	0.000
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.061	0.056	0.041	0.001	0.000
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.024	0.285	0.262	0.001	0.000
64 Lake Street, West Branch Du Page River	0.028	0.224	0.203	0.001	0.001
79 Higgins Road, Salt Creek	0.035	0.100	0.077	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.024	0.207	0.185	0.001	0.000
18 Devon Avenue, Salt Creek	0.024	0.192	0.174	0.001	0.000
24 Wolf Road, Salt Creek	0.028	0.227	0.198	0.001	0.000
109 Brookfield Avenue, Salt Creek	0.022	0.247	0.227	0.001	0.000
21 First Avenue, Salt Creek	0.037	0.179	0.159	0.004	0.001
77 Elmhurst Road, Higgins Creek	0.048	0.074	0.057	0.002	0.000
78 Wille Road, Higgins Creek	0.022	0.335	0.306	0.001	0.001
12 Lake-Cook Road, Buffalo Creek	0.044	0.101	0.085	0.001	0.000
13 Lake-Cook Road, Des Plaines River	0.034	0.189	0.162	0.002	0.001
17 Oakton Street, Des Plaines River	0.035	0.191	0.152	0.001	0.001
19 Belmont Avenue, Des Plaines River	0.033	0.207	0.178	0.002	0.000
20 Roosevelt Road, Des Plaines River	0.034	0.218	0.189	0.001	0.000
22 Ogden Avenue, Des Plaines River	0.032	0.214	0.191	0.001	0.000
23 Willow Springs Road, Des Plaines River	0.031	0.219	0.203	0.001	0.001
29 Stephen Street, Des Plaines River	0.032	0.204	0.182	0.001	0.000
91 Material Service Road, Des Plaines River	0.031	0.213	0.193	0.001	0.000

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>		Cu	Sol.Cu	Cr	Sol.Cr	Cr ⁺⁶
No.	Name	mg/L	mg/L	mg/L	mg/L	µg/L
<u>Chicago River System</u>						
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106	Dundas Road, West Fork North Branch Chicago River	0.023	0.010	0.006	0.000	0.000
103	Golf Road, West Fork North Branch Chicago River	0.024	0.007	0.007	0.001	0.000
31	Lake-Cook Road, Middle Fork North Branch	0.022	0.007	0.006	0.001	0.000
104	Glenview Road, North Branch Chicago River	0.020	0.006	0.005	0.002	0.000
32	Lake-Cook Road, Skokie River	0.019	0.007	0.001	0.002	0.000
105	Frontage Road, Skokie River	0.020	0.007	0.003	0.001	0.000
34	Dempster Street, North Branch Chicago River	0.021	0.006	0.007	0.004	0.000
96	Albany Avenue, North Branch Chicago River	0.022	0.006	0.001	0.002	0.000
35	Central Street, North Shore Channel	0.023	0.006	0.008	0.003	0.000
102	Oakton Street, North Shore Channel	0.021	0.004	0.003	0.001	0.000
36	Touhy Avenue, North Shore Channel	0.024	0.006	0.004	0.002	0.000
101	Foster Avenue, North Shore Channel	0.023	0.003	0.003	0.003	0.000
37	Wilson Avenue, North Branch Chicago River	0.023	0.006	0.006	0.004	0.000
73	Diversey Parkway, North Branch Chicago River	0.022	0.005	0.004	0.003	0.000
46	Grand Avenue, North Branch Chicago River	0.022	0.006	0.005	0.002	0.000
74	Lake Shore Drive, Chicago River	0.013	0.004	0.002	0.002	0.000
100	Wells Street, Chicago River	0.019	0.004	0.004	0.001	0.167
39	Madison Street, South Branch Chicago River	0.020	0.004	0.005	0.003	0.000
108	Loomis Street, South Branch Chicago River	0.020	0.005	0.005	0.002	0.167
99	Archer Avenue, South Fork South Branch Chicago River	0.017	0.006	0.008	0.002	0.000
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	0.021	0.005	0.005	0.002	0.000
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.005	0.006	0.001	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.016	0.003	0.004	0.001	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.017	0.004	0.005	0.001	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.005	0.004	0.003	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.020	0.005	0.007	0.002	0.000
<u>Calumet River System</u>						
49	Ewing Avenue, Calumet River	0.015	0.002	0.002	0.001	0.000
50	Burnham Avenue, Wolf Lake	0.013	0.002	0.004	0.003	0.000
55	130th Street, Calumet River	0.014	0.003	0.003	0.006	0.000
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.020	0.004	0.003	0.004	0.000
56	Indiana Avenue, Little Calumet River	0.020	0.003	0.006	0.007	0.000
76	Halsted Street, Little Calumet River	0.016	0.003	0.001	0.003	0.000
52	Wentworth Avenue, Little Calumet River	0.019	0.006	0.007	0.003	0.000
54	Joe Orr Road, Thorn Creek	0.013	0.005	0.005	0.004	0.000
97	170th Street, Thorn Creek	0.016	0.002	0.005	0.003	0.000
57	Ashland Avenue, Little Calumet River	0.017	0.004	0.007	0.007	0.000
58	Ashland Avenue, Calumet Sag Channel	0.017	0.004	0.006	0.007	0.000
59	Cicero Avenue, Calumet Sag Channel	0.016	0.004	0.005	0.005	0.000
43	Route 83, Calumet Sag Channel	0.018	0.002	0.005	0.005	0.000
<u>Des Plaines River System</u>						
90	Route 19, Poplar Creek	0.016	0.004	0.003	0.003	0.000
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.023	0.010	0.002	0.001	0.000
64	Lake Street, West Branch Du Page River	0.021	0.008	0.003	0.002	0.000
79	Higgins Road, Salt Creek	0.021	0.003	0.009	0.004	0.000
80	Arlington Heights Road, Salt Creek	0.018	0.009	0.003	0.002	0.000
18	Devon Avenue, Salt Creek	0.019	0.007	0.001	0.002	0.000
24	Wolf Road, Salt Creek	0.020	0.008	0.007	0.003	0.000
109	Brookfield Avenue, Salt Creek	0.024	0.007	0.007	0.005	0.000
21	First Avenue, Salt Creek	0.016	0.010	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.019	0.007	0.004	0.002	0.000
78	Wille Road, Higgins Creek	0.018	0.006	0.004	0.003	0.000
12	Lake-Cook Road, Buffalo Creek	0.017	0.004	0.010	0.002	0.000
13	Lake-Cook Road, Des Plaines River	0.019	0.006	0.001	0.002	0.000
17	Oakton Steet, Des Plaines River	0.018	0.005	0.004	0.002	0.000
19	Belmont Avenue, Des Plaines River	0.021	0.007	0.002	0.002	0.000
20	Roosevelt Road, Des Plaines River	0.022	0.007	0.004	0.002	0.000
22	Ogden Avenue, Des Plaines River	0.020	0.006	0.004	0.001	0.000
23	Willow Springs Road, Des Plaines River	0.023	0.007	0.002	0.000	0.000
29	Stephen Street, Des Plaines River	0.022	0.007	0.001	0.001	0.000
91	Material Service Road, Des Plaines River	0.019	0.007	0.004	0.003	0.000

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

Sampling Station No. Name	Fe mg/L	Sol.Fe mg/L	Pb mg/L	Sol.Pb mg/L	Ni mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.913	0.173	0.000	0.000	0.005
103 Golf Road, West Fork North Branch Chicago River	1.037	0.123	0.002	0.001	0.006
31 Lake-Cook Road, Middle Fork North Branch	0.934	0.192	0.002	0.001	0.005
104 Glenview Road, North Branch Chicago River	0.705	0.124	0.002	0.001	0.004
32 Lake-Cook Road, Skokie River	0.831	0.168	0.002	0.001	0.005
105 Frontage Road, Skokie River	0.580	0.119	0.002	0.001	0.004
14 Dempster Street, North Branch Chicago River	0.889	0.120	0.002	0.001	0.004
96 Albany Avenue, North Branch Chicago River	0.889	0.120	0.002	0.001	0.005
35 Central Street, North Shore Channel	0.355	0.076	0.002	0.001	0.002
102 Oakton Street, North Shore Channel	0.466	0.075	0.002	0.001	0.005
36 Touhy Avenue, North Shore Channel	0.310	0.093	0.001	0.001	0.004
101 Foster Avenue, North Shore Channel	0.347	0.107	0.001	0.001	0.006
37 Wilson Avenue, North Branch Chicago River	0.490	0.104	0.001	0.001	0.005
73 Diversey Parkway, North Branch Chicago River	0.560	0.108	0.001	0.001	0.009
46 Grand Avenue, North Branch Chicago River	0.594	0.105	0.002	0.001	0.008
74 Lake Shore Drive, Chicago River	0.199	0.055	0.001	0.001	0.003
100 Wells Street, Chicago River	0.248	0.068	0.001	0.001	0.004
39 Madison Street, South Branch Chicago River	0.439	0.098	0.002	0.001	0.007
108 Loomis Street, South Branch Chicago River	0.417	0.095	0.002	0.001	0.007
99 Archer Avenue, South Fork South Branch Chicago River	0.599	0.105	0.003	0.001	0.006
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.507	0.094	0.003	0.001	0.006
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.545	0.091	0.003	0.001	0.006
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.330	0.095	0.002	0.001	0.008
42 Route 83, Chicago Sanitary & Ship Canal	0.336	0.100	0.002	0.002	0.009
48 Stephen Street, Chicago Sanitary & Ship Canal	0.429	0.103	0.002	0.001	0.009
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.505	0.100	0.003	0.001	0.008
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.268	0.044	0.002	0.001	0.002
50 Burnham Avenue, Wolf Lake	0.134	0.050	0.002	0.001	0.000
55 130th Street, Calumet River	0.345	0.054	0.002	0.001	0.002
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.335	0.220	0.002	0.001	0.009
56 Indiana Avenue, Little Calumet River	1.014	0.078	0.003	0.001	0.006
76 Halsted Street, Little Calumet River	0.449	0.107	0.002	0.001	0.004
52 Wentworth Avenue, Little Calumet River	1.973	0.155	0.003	0.001	0.005
54 Joe Orr Road, Thorn Creek	0.445	0.191	0.000	0.000	0.005
97 170th Street, Thorn Creek	0.867	0.156	0.003	0.001	0.007
57 Ashland Avenue, Little Calumet River	0.980	0.135	0.002	0.001	0.010
58 Ashland Avenue, Calumet Sag Channel	0.616	0.112	0.004	0.001	0.004
59 Cicero Avenue, Calumet Sag Channel	0.637	0.102	0.003	0.001	0.005
43 Route 83, Calumet Sag Channel	0.751	0.099	0.004	0.001	0.006
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.846	0.151	0.002	0.001	0.003
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.432	0.119	0.009	0.001	0.005
64 Lake Street, West Branch Du Page River	0.894	0.108	0.002	0.001	0.004
79 Higgins Road, Salt Creek	1.448	0.124	0.002	0.001	0.006
80 Arlington Heights Road, Salt Creek	0.343	0.152	0.001	0.000	0.005
18 Devon Avenue, Salt Creek	0.434	0.136	0.002	0.001	0.004
24 Wolf Road, Salt Creek	0.662	0.127	0.002	0.001	0.009
109 Brookfield Avenue, Salt Creek	0.605	0.084	0.005	0.003	0.011
21 First Avenue, Salt Creek	0.582	0.184	0.000	0.000	0.003
77 Blmhurst Road, Higgins Creek	1.179	0.123	0.002	0.000	0.005
78 Wille Road, Higgins Creek	0.417	0.134	0.002	0.001	0.009
12 Lake-Cook Road, Buffalo Creek	1.066	0.153	0.001	0.000	0.006
13 Lake-Cook Road, Des Plaines River	0.829	0.127	0.002	0.001	0.005
17 Oakton Street, Des Plaines River	0.632	0.124	0.003	0.001	0.005
19 Belmont Avenue, Des Plaines River	0.679	0.123	0.002	0.001	0.006
20 Roosevelt Road, Des Plaines River	0.749	0.126	0.002	0.001	0.007
22 Ogden Avenue, Des Plaines River	0.679	0.121	0.002	0.001	0.008
23 Willow Springs Road, Des Plaines River	0.611	0.112	0.003	0.002	0.007
29 Stephen Street, Des Plaines River	0.679	0.118	0.002	0.001	0.007
91 Material Service Road, Des Plaines River	0.754	0.120	0.002	0.001	0.007

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

<u>Sampling Station</u>	Sol.Ni	Mn	Sol.Mn	Hg	Sol.Hg
No. Name	mg/L	mg/L	mg/L	µg/L	µg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.067	0.034	0.028	0.000
103 Golf Road, West Fork North Branch Chicago River	0.003	0.091	0.047	0.045	0.008
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.148	0.111	0.015	0.010
104 Glenview Road, North Branch Chicago River	0.003	0.060	0.023	0.034	0.000
32 Lake-Cook Road, Skokie River	0.003	0.096	0.066	0.040	0.013
105 Frontage Road, Skokie River	0.002	0.046	0.033	0.030	0.032
54 Dempster Street, North Branch Chicago River	0.003	0.083	0.032	0.031	0.012
96 Albany Avenue, North Branch Chicago River	0.002	0.057	0.023	0.023	0.058
35 Central Street, North Shore Channel	0.001	0.028	0.012	0.038	0.008
102 Oakton Street, North Shore Channel	0.003	0.026	0.013	0.025	0.038
36 Touhy Avenue, North Shore Channel	0.003	0.034	0.017	0.018	0.030
101 Foster Avenue, North Shore Channel	0.004	0.027	0.015	0.026	0.008
37 Wilson Avenue, North Branch Chicago River	0.004	0.035	0.018	0.024	0.000
73 Diversey Parkway, North Branch Chicago River	0.004	0.036	0.019	0.035	0.027
46 Grand Avenue, North Branch Chicago River	0.006	0.042	0.023	0.046	0.025
74 Lake Shore Drive, Chicago River	0.001	0.017	0.009	0.020	0.090
100 Wells Street, Chicago River	0.002	0.021	0.012	0.013	0.030
39 Madison Street, South Branch Chicago River	0.005	0.036	0.023	0.031	0.030
108 Loomis Street, South Branch Chicago River	0.004	0.035	0.023	0.018	0.020
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.048	0.033	0.018	0.023
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.003	0.041	0.025	0.018	0.010
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.040	0.022	0.011	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	0.036	0.013	0.015	0.033
42 Route 83, Chicago Sanitary & Ship Canal	0.007	0.039	0.016	0.007	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.006	0.043	0.024	0.007	0.000
82 Lockport Trehler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.053	0.030	0.026	0.013
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.001	0.022	0.006	0.018	0.027
50 Burnham Avenue, Wolf Lake	0.001	0.028	0.006	0.021	0.000
55 130th Street, Calumet River	0.002	0.031	0.004	0.031	0.020
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.006	0.098	0.078	0.055	0.026
56 Indiana Avenue, Little Calumet River	0.004	0.086	0.010	0.034	0.020
76 Halsted Street, Little Calumet River	0.003	0.053	0.031	0.047	0.019
52 Wentworth Avenue, Little Calumet River	0.003	0.134	0.094	0.034	0.020
54 Joe Orr Road, Thorn Creek	0.004	0.073	0.054	0.044	0.020
97 170th Street, Thorn Creek	0.006	0.102	0.046	0.018	0.000
57 Ashland Avenue, Little Calumet River	0.004	0.104	0.063	0.041	0.018
58 Ashland Avenue, Calumet Sag Channel	0.003	0.066	0.043	0.009	0.023
59 Cicero Avenue, Calumet Sag Channel	0.003	0.073	0.044	0.021	0.022
43 Route 83, Calumet Sag Channel	0.004	0.063	0.034	0.027	0.028
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.003	0.103	0.057	0.028	0.013
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.003	0.074	0.048	0.024	0.007
64 Lake Street, West Branch Du Page River	0.002	0.069	0.036	0.029	0.003
79 Higgins Road, Salt Creek	0.003	0.134	0.034	0.051	0.000
80 Arlington Heights Road, Salt Creek	0.003	0.051	0.018	0.030	0.020
18 Devon Avenue, Salt Creek	0.003	0.052	0.020	0.008	0.000
24 Wolf Road, Salt Creek	0.008	0.066	0.035	0.045	0.004
109 Brookfield Avenue, Salt Creek	0.009	0.042	0.023	0.023	0.005
21 First Avenue, Salt Creek	0.002	0.065	0.037	0.000	ND
77 Elmhurst Road, Higgins Creek	0.002	0.120	0.073	0.030	0.033
78 Wille Road, Higgins Creek	0.007	0.048	0.022	0.018	0.005
12 Lake-Cook Road, Buffalo Creek	0.003	0.458	0.054	0.039	0.025
13 Lake-Cook Road, Des Plaines River	0.004	0.089	0.029	0.023	0.047
17 Oakton Street, Des Plaines River	0.003	0.089	0.034	0.028	0.020
19 Belmont Avenue, Des Plaines River	0.005	0.079	0.052	0.041	0.002
20 Roosevelt Road, Des Plaines River	0.005	0.145	0.050	0.038	0.015
22 Ogden Avenue, Des Plaines River	0.006	0.066	0.027	0.055	0.004
23 Willow Springs Road, Des Plaines River	0.005	0.062	0.028	0.090	0.018
29 Stephen Street, Des Plaines River	0.005	0.060	0.021	0.044	0.002
91 Material Service Road, Des Plaines River	0.006	0.065	0.016	0.032	0.018

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2002

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

ND = NO DATA

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-2

DISSOLVED OXYGEN VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		02	01	00	99	98	97	96	95
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	1/ 9
106	Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	2/ 11	4/ 10	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	3/ 10	4/ 11	4/ 10	3/ 10	6/ 12	2/ 10	4/ 8	5/ 10
104	Glenview Road, North Branch Chicago River	0/ 9	1/ 10	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	2/ 10	3/ 11	3/ 10	6/ 11	2/ 12	2/ 10	1/ 8	4/ 9
105	Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	2/ 12	2/ 12	1/ 11	1/ 11	0/ 12	2/ 11	0/ 12	3/ 10
96	Albany Avenue, North Branch Chicago River	1/ 12	1/ 12	1/ 6	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	1/ 9	0/ 9	1/ 8	2/ 10	2/ 9	0/ 10	2/ 9	1/ 8
102	Oakton Street, North Shore Channel	0/ 11	3/ 10	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12
101	Foster Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	ND	ND	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	Diversay Parkway, North Branch Chicago River	0/ 12	0/ 12	1/ 12	1/ 12	1/ 12	0/ 12	0/ 12	1/ 12
46	Grand Avenue, North Branch Chicago River	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108	Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	6/ 12	6/ 10	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	2/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107	Western Avenue, Chicago Sanitary & Ship Canal	1/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	2/ 12	1/ 12	2/ 12	2/ 12	1/ 12	0/ 12	0/ 12	0/ 12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	1/ 12	2/ 12	0/ 11	1/ 12	1/ 12	0/ 10	0/ 12	0/ 12
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	2/ 12	0/ 11	0/ 11	1/ 12	0/ 12	0/ 12	0/ 12
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	11/ 50	9/ 54	8/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	0/ 21	0/ 23	0/ 24	0/ 24	0/ 24	0/ 23	0/ 15	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 21	0/ 21	1/ 23	0/ 22	0/ 24	1/ 23	0/ 15	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	4/ 11	6/ 10	4/ 11	3/ 11	2/ 12	2/ 12	9/ 11	10/ 13
56	Indiana Avenue, Little Calumet River	0/ 21	0/ 17	0/ 23	0/ 23	0/ 23	0/ 22	0/ 15	0/ 11
76	Halsted Street, Little Calumet River	0/ 21	0/ 23	1/ 24	0/ 23	0/ 24	0/ 24	0/ 4	0/ 12
52	Wentworth Avenue, Little Calumet River	4/ 11	5/ 11	5/ 11	5/ 11	2/ 12	5/ 12	3/ 9	4/ 10
54	Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
97	170th Street, Thorn Creek	0/ 12	2/ 10	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	3/ 12	5/ 10	4/ 11	5/ 11	5/ 12	4/ 12	4/ 9	4/ 11
58	Ashland Avenue, Calumet Sag Channel	0/ 21	0/ 23	1/ 24	0/ 23	0/ 16	0/ 15	0/ 17	0/ 11
59	Cicero Avenue, Calumet Sag Channel	0/ 20	0/ 23	0/ 24	0/ 23	0/ 24	0/ 24	0/ 16	0/ 12
43	Route 83, Calumet Sag Channel	0/ 21	1/ 22	0/ 23	0/ 23	0/ 24	0/ 24	0/ 16	0/ 12
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	1/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	1/ 11	1/ 10
63	Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	1/ 11	0/ 12
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12
64	Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	1/ 12	0/ 11	0/ 12
79	Higgins Road, Salt Creek	1/ 8	1/ 10	4/ 10	1/ 10	1/ 10	1/ 11	1/ 10	0/ 10
80	Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	1/ 12	0/ 12	0/ 12	0/ 12
18	Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	1/ 11	0/ 12	0/ 12	2/ 11	0/ 12
24	Wolf Road, Salt Creek	1/ 12	1/ 12	0/ 10	1/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109	Brookfield Avenue, Salt Creek	2/ 6	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0/ 3	1/ 12	1/ 10	1/ 11	2/ 12	3/ 11	3/ 12	2/ 12
77	Elmhurst Road, Higgins Creek	1/ 6	0/ 11	1/ 10	0/ 11	2/ 12	2/ 11	1/ 12	1/ 12
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12	Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	2/ 12	0/ 12
13	Lake-Cook Road, Des Plaines River	1/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	1/ 12	0/ 12
17	Oakton Street, Des Plaines River	1/ 11	0/ 12	0/ 10	1/ 11	0/ 12	2/ 11	1/ 12	0/ 11
19	Belmont Avenue, Des Plaines River	4/ 12	1/ 12	2/ 10	4/ 11	4/ 12	2/ 12	1/ 12	2/ 12
20	Roosevelt Road, Des Plaines River	3/ 12	1/ 12	2/ 10	4/ 11	5/ 12	2/ 12	2/ 12	2/ 12
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	2/ 11	0/ 12	0/ 12	0/ 13	1/ 12
23	Willow Springs Road, Des Plaines River	2/ 10	0/ 12	1/ 10	0/ 11	0/ 12	1/ 11	1/ 11	0/ 11
29	Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12
91	Material Service Road, Des Plaines River	0/ 12	1/ 52	0/ 49	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-3

TEMPERATURE VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 7	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 7	0/ 9	0/ 8	0/ 9	0/ 9	0/ 8	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 10	0/ 12	0/ 12
101 Foster Avenue, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
73 Diversey Parkway, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
46 Grand Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 9	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 11	0/ 12	0/ 10	0/ 12	0/ 7	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 7	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 10	0/ 12	0/ 10	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 9	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 7	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 10	0/ 12	0/ 9	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 46	0/ 54	0/ 48	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 10	0/ 13	0/ 11	0/ 20	0/ 24	0/ 23	0/ 14	0/ 10
50 Burnham Avenue, Wolf Lake	0/ 10	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 16	0/ 11
55 130th Street, Calumet River	0/ 10	0/ 13	0/ 10	0/ 18	0/ 24	0/ 23	0/ 14	0/ 10
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 9	0/ 9	0/ 10	0/ 10	0/ 12	0/ 12	0/ 10	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 19	0/ 23	0/ 22	0/ 14	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 14	0/ 11	0/ 19	0/ 24	0/ 24	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 10	0/ 10	0/ 12	0/ 12	0/ 8	0/ 9
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 11	0/ 10	0/ 10	0/ 11	0/ 12	0/ 12	0/ 8	0/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 11	0/ 14	0/ 11	0/ 20	0/ 16	0/ 15	0/ 15	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 9	0/ 14	0/ 11	0/ 20	0/ 24	0/ 24	0/ 14	0/ 12
43 Route 83, Calumet Sag Channel	0/ 10	0/ 14	0/ 11	0/ 20	0/ 24	0/ 24	0/ 13	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 8	0/ 11	0/ 7	0/ 9	1/ 11	0/ 8	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	1/ 8	0/ 8	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 10	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 7	0/ 10	0/ 10	0/ 9	1/ 10	0/ 9	0/ 10	1/ 10
80 Arlington Heights Road, Salt Creek	0/ 9	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12
24 Wolf Road, Salt Creek	0/ 11	0/ 12	0/ 10	0/ 11	1/ 6	0/ 8	0/ 11	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 4	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 3	0/ 12	0/ 10	0/ 11	1/ 12	0/ 9	0/ 11	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	1/ 11	0/ 10	0/ 11	1/ 12	0/ 7	0/ 13	0/ 12
78 Wille Road, Higgins Creek	0/ 11	0/ 12	0/ 11	0/ 11	1/ 12	0/ 8	0/ 11	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 6	1/ 11	0/ 10	0/ 10	1/ 11	0/ 10	0/ 11	0/ 11
13 Lake-Cook Road, Des Plaines River	0/ 10	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12
17 Oakton Street, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 8	0/ 11	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 11	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 11	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 12	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 9	0/ 12	0/ 10	0/ 11	1/ 12	0/ 7	0/ 11	0/ 10
29 Stephen Street, Des Plaines River	0/ 11	0/ 12	0/ 9	0/ 11	1/ 12	0/ 8	0/ 11	0/ 11
91 Material Service Road, Des Plaines River	0/ 11	1/ 52	0/ 48	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-4

pH VIOLATION HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>								
		No. Name	02	01	00	99	98	97	96	95
<u>Chicago River System</u>										
30	Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	0/ 5	ND	ND	ND	ND	ND	ND	
103	Golf Road, West Fork North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	
31	Lake-Cook Road, Middle Fork North Branch	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	1/ 8	0/ 8	0/ 10	
104	Glenview Road, North Branch Chicago River	0/ 7	0/ 10	ND	ND	ND	ND	ND	ND	
32	Lake-Cook Road, Skokie River	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	1/ 8	0/ 8	0/ 9	
105	Frontage Road, Skokie River	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND	
34	Dempster Street, North Branch Chicago River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	1/ 10	1/ 12	0/ 10	
96	Albany Avenue, North Branch Chicago River	0/ 11	1/ 12	0/ 6	ND	ND	ND	ND	ND	
35	Central Street, North Shore Channel	0/ 6	0/ 9	0/ 8	1/ 9	2/ 9	1/ 8	1/ 9	1/ 8	
102	Oakton Street, North Shore Channel	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND	
36	Touhy Avenue, North Shore Channel	0/ 11	0/ 12	0/ 12	0/ 11	1/ 12	1/ 10	0/ 12	0/ 11	
101	Foster Avenue, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	
37	Wilson Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	2/ 12	1/ 11	1/ 12	0/ 12	
73	Diversey Parkway, North Branch Chicago River	0/ 11	0/ 12	1/ 12	0/ 11	2/ 12	3/ 11	1/ 12	0/ 12	
46	Grand Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	1/ 9	0/ 12	0/ 7	
74	Lake Shore Drive, Chicago River	0/ 12	0/ 11	0/ 12	0/ 10	1/ 12	0/ 7	1/ 11	1/ 10	
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	
39	Madison Street, South Branch Chicago River	0/ 12	0/ 11	0/ 12	1/ 11	1/ 12	0/ 7	0/ 12	0/ 11	
108	Loomis Street, South Branch Chicago River	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	
99	Archer Avenue, South Fork South Branch Chicago River	0/ 11	1/ 10	ND	ND	ND	ND	ND	ND	
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 10	3/ 12	0/ 10	0/ 12	0/ 9	
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 12	1/ 12	2/ 12	1/ 10	0/ 12	0/ 12	
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 10	1/ 12	0/ 9	1/ 12	1/ 12	
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	1/ 12	0/ 7	1/ 12	0/ 12	
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 10	1/ 12	0/ 9	1/ 12	0/ 12	
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 150	
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 46	2/ 52	2/ 48	ND	ND	ND	ND	ND	
<u>Calumet River System</u>										
49	Ewing Avenue, Calumet River	0/ 10	0/ 14	1/ 11	3/ 20	1/ 24	2/ 23	3/ 13	0/ 10	
50	Burnham Avenue, Wolf Lake	0/ 10	0/ 11	1/ 10	0/ 11	1/ 12	2/ 12	4/ 11	0/ 11	
55	130th Street, Calumet River	1/ 10	0/ 12	0/ 9	1/ 18	2/ 24	2/ 23	5/ 13	1/ 10	
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	
86	Burnham Avenue, Grand Calumet River	0/ 9	0/ 10	0/ 9	0/ 10	1/ 12	0/ 12	0/ 10	0/ 12	
56	Indiana Avenue, Little Calumet River	0/ 12	0/ 10	1/ 10	1/ 19	3/ 23	0/ 22	3/ 13	0/ 11	
76	Halsted Street, Little Calumet River	0/ 12	0/ 14	0/ 12	1/ 19	2/ 24	2/ 23	0/ 4	0/ 12	
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 9	0/ 10	0/ 12	0/ 12	3/ 8	0/ 9	
54	Joe Orr Road, Thorn Creek	0/ 7	0/ 12	1/ 12	2/ 11	1/ 12	1/ 12	0/ 11	0/ 12	
97	170th Street, Thorn Creek	0/ 12	1/ 9	ND	ND	ND	ND	ND	ND	
57	Ashland Avenue, Little Calumet River	0/ 11	0/ 10	1/ 11	1/ 11	1/ 12	2/ 12	1/ 8	0/ 11	
58	Ashland Avenue, Calumet Sag Channel	0/ 11	0/ 14	0/ 12	1/ 20	2/ 16	1/ 14	1/ 15	0/ 11	
59	Cicero Avenue, Calumet Sag Channel	0/ 10	0/ 14	0/ 12	1/ 20	4/ 24	2/ 23	1/ 14	0/ 12	
43	Route 83, Calumet Sag Channel	0/ 10	0/ 14	0/ 12	1/ 20	3/ 24	3/ 23	1/ 14	0/ 12	
<u>Des Plaines River System</u>										
90	Route 19, Poplar Creek	0/ 8	0/ 11	0/ 7	0/ 8	1/ 11	0/ 8	0/ 11	0/ 10	
63	Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 8	2/ 8	0/ 8	0/ 11	0/ 12	
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	1/ 12	0/ 9	0/ 12	0/ 10	0/ 12	0/ 12	
64	Lake Street, West Branch Du Page River	0/ 12	0/ 11	1/ 10	1/ 9	2/ 12	0/ 10	0/ 11	0/ 12	
79	Higgins Road, Salt Creek	0/ 7	0/ 10	1/ 10	2/ 8	2/ 10	0/ 9	0/ 10	0/ 10	
80	Arlington Heights Road, Salt Creek	0/ 9	0/ 12	1/ 12	0/ 9	1/ 12	0/ 10	0/ 12	0/ 12	
18	Devon Avenue, Salt Creek	0/ 10	1/ 12	1/ 12	0/ 9	0/ 12	0/ 10	0/ 12	0/ 12	
24	Wolf Road, Salt Creek	0/ 11	0/ 12	0/ 10	0/ 11	0/ 6	2/ 8	3/ 11	0/ 12	
109	Brookfield Avenue, Salt Creek	0/ 4	ND	ND	ND	ND	ND	ND	ND	
21	First Avenue, Salt Creek	0/ 3	0/ 12	0/ 10	1/ 11	0/ 12	0/ 9	0/ 11	1/ 12	
77	Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	1/ 11	0/ 12	1/ 7	1/ 11	0/ 12	
78	Wille Road, Higgins Creek	0/ 11	0/ 12	0/ 11	0/ 11	0/ 12	4/ 8	1/ 11	0/ 12	
12	Lake-Cook Road, Buffalo Creek	0/ 6	0/ 11	3/ 10	1/ 9	4/ 11	2/ 10	1/ 12	1/ 12	
13	Lake-Cook Road, Des Plaines River	1/ 10	0/ 12	1/ 12	0/ 9	3/ 12	0/ 10	1/ 12	1/ 12	
17	Oakton Street, Des Plaines River	0/ 10	0/ 12	0/ 10	1/ 11	0/ 12	0/ 8	1/ 11	1/ 11	
19	Belmont Avenue, Des Plaines River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	1/ 10	0/ 11	0/ 12	
20	Roosevelt Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	1/ 12	
22	Ogden Avenue, Des Plaines River	1/ 10	0/ 12	0/ 10	3/ 11	0/ 12	1/ 10	0/ 12	1/ 12	
23	Willow Springs Road, Des Plaines River	0/ 9	0/ 12	0/ 10	0/ 11	0/ 12	2/ 7	2/ 11	0/ 10	
29	Stephen Street, Des Plaines River	0/ 11	0/ 12	0/ 9	1/ 11	0/ 12	2/ 8	3/ 11	0/ 11	
91	Material Service Road, Des Plaines River	0/ 11	3/ 50	2/ 48	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-5

CHLORIDE VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	1/ 2	1/ 1	ND	ND	ND	0/ 4	0/ 9	
106 Dundas Road, West Fork North Branch Chicago River	1/ 6	1/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	1/ 11	0/ 12	0/ 10	0/ 8	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	2/ 10	1/ 11	0/ 12	1/ 10	1/ 8	0/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	1/ 12	1/ 11	1/ 11	0/ 12	1/ 11	1/ 12	0/ 10	
96 Albany Avenue, North Branch Chicago River	1/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	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
73 Diversey Parkway, North Branch Chicago River	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
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	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
99 Archer Avenue, South Fork South Branch Chicago River	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
107 Western Avenue, Chicago Sanitary & Ship Canal	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
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 81, Chicago Sanitary & Ship Canal	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
82 Lockport Trebler, Chicago Sanitary & Ship Canal	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
<u>Calumet River System</u>									
49 Bwing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 81, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	1/ 9	0/ 11	0/ 7	0/ 10	1/ 11	1/ 9	1/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	1/ 9	0/ 8	2/ 10	3/ 11	0/ 12	
89 Walnut Lane, West Branch Du Page River	1/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	1/ 12	1/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
79 Higgins Road, Salt Creek	1/ 8	3/ 10	2/ 10	0/ 10	0/ 10	1/ 11	2/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	1/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	1/ 12	1/ 12	0/ 11	0/ 12	2/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	1/ 12	1/ 12	1/ 10	0/ 11	1/ 6	1/ 12	0/ 12	0/ 12	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	1/ 3	1/ 12	1/ 10	0/ 11	1/ 12	0/ 11	0/ 12	0/ 12	
77 Elmhurst Road, Higgins Creek	2/ 6	3/ 11	2/ 10	3/ 11	3/ 12	3/ 11	3/ 12	0/ 12	
78 Wille Road, Higgins Creek	1/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	1/ 12	0/ 12	
12 Lake-Cook Road, Buffalo Creek	0/ 7	2/ 11	0/ 10	0/ 11	0/ 11	0/ 11	1/ 12	0/ 12	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	1/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17 Oakton Street, Des Plaines River	1/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	
19 Belmont Avenue, Des Plaines River	1/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	2/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	2/ 12	0/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 13	0/ 12	
23 Willow Springs Road, Des Plaines River	1/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	2/ 12	0/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 12	0/ 12	
91 Material Service Road, Des Plaines River	1/ 12	2/ 52	2/ 50	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-6

AMMONIUM NITROGEN VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	1/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	1/ 12	1/ 12	2/ 12	0/ 12
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	2/ 12	2/ 12	3/ 12	0/ 12
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	2/ 12	2/ 12	2/ 12	0/ 12
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	2/ 12	0/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	1/ 12	0/ 11	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	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
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	1/ 12	1/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	1/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	1/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	1/ 12	0/ 12	0/ 12	1/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0/ 52	0/ 51	0/ 52	0/146
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 20	0/ 24	0/ 23	0/ 15	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 18	0/ 24	0/ 23	0/ 15	0/ 11
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	0/ 12	0/ 12	4/ 11	1/ 13
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	1/ 23	0/ 22	4/ 15	1/ 11
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	0/ 24	1/ 24	0/ 4	1/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	1/ 16	1/ 15	0/ 17	0/ 11
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	0/ 24	2/ 24	1/ 16	1/ 12
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	3/ 24	3/ 24	0/ 16	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	1/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 3	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12
91 Material Service Road, Des Plaines River	0/ 12	0/ 52	0/ 50	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-7

UN-IONIZED AMMONIA VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 6	ND	
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8	ND	ND
104 Glenview Road, North Branch Chicago River	0/ 7	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	1/ 8	ND	ND
105 Frontage Road, Skokie River	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 12	ND	ND
96 Albany Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 6	0/ 9	0/ 8	0/ 9	0/ 9	0/ 8	2/ 9	ND	ND
102 Oakton Street, North Shore Channel	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 11	0/ 12	1/ 12	1/ 11	1/ 12	1/ 10	2/ 12	ND	ND
101 Foster Avenue, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 11	0/ 12	1/ 12	2/ 11	2/ 12	2/ 11	3/ 12	ND	ND
73 Diversey Parkway, North Branch Chicago River	0/ 11	0/ 12	1/ 12	0/ 11	2/ 12	2/ 11	2/ 12	ND	ND
46 Grand Avenue, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	2/ 12	0/ 9	0/ 12	ND	ND
74 Lake Shore Drive, Chicago River	0/ 12	0/ 11	0/ 12	0/ 10	0/ 12	0/ 7	0/ 11	ND	ND
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 11	0/ 12	1/ 11	1/ 12	0/ 7	0/ 12	ND	ND
108 Loomis Street, South Branch Chicago River	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 11	1/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	1/ 10	3/ 12	0/ 10	0/ 12	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1/ 11	0/ 12	0/ 12	1/ 12	1/ 12	1/ 10	0/ 12	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 10	1/ 12	0/ 9	0/ 12	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	1/ 12	0/ 7	0/ 12	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 10	1/ 12	0/ 9	0/ 12	ND	ND
82 Lockport Trawler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 46	0/ 52	1/ 48	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 10	0/ 11	0/ 11	0/ 19	0/ 24	0/ 23	1/ 13	ND	ND
50 Burnham Avenue, Wolf Lake	0/ 10	0/ 10	0/ 10	0/ 11	0/ 12	0/ 12	0/ 11	ND	ND
55 130th Street, Calumet River	0/ 10	0/ 10	0/ 9	0/ 17	0/ 24	0/ 23	4/ 13	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/ 9	0/ 9	2/ 9	1/ 10	0/ 12	0/ 12	4/ 10	ND	ND
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	1/ 10	0/ 18	1/ 23	0/ 22	4/ 13	ND	ND
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 18	0/ 24	1/ 23	0/ 4	ND	ND
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 9	0/ 10	0/ 12	0/ 12	3/ 8	ND	ND
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 11	0/ 11	0/ 12	1/ 12	0/ 11	ND	ND
97 170th Street, Thorn Creek	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 11	0/ 10	0/ 10	0/ 11	0/ 12	1/ 12	0/ 8	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/ 11	0/ 12	0/ 11	1/ 19	1/ 16	1/ 14	0/ 15	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0/ 9	0/ 12	0/ 11	0/ 19	0/ 24	2/ 23	1/ 14	ND	ND
43 Route 83, Calumet Sag Channel	0/ 10	0/ 12	0/ 11	1/ 19	3/ 24	3/ 23	0/ 14	ND	ND
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 8	0/ 11	0/ 7	0/ 8	0/ 11	0/ 8	0/ 11	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 8	0/ 8	0/ 8	1/ 11	ND	ND
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	1/ 12	0/ 9	0/ 12	0/ 10	1/ 12	ND	ND
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	1/ 10	0/ 9	0/ 12	0/ 10	1/ 11	ND	ND
79 Higgins Road, Salt Creek	0/ 7	0/ 10	1/ 10	0/ 8	0/ 10	0/ 9	0/ 10	ND	ND
80 Arlington Heights Road, Salt Creek	0/ 9	0/ 12	1/ 12	0/ 9	0/ 12	1/ 10	0/ 12	ND	ND
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	1/ 12	0/ 9	0/ 12	0/ 10	0/ 12	ND	ND
24 Wolf Road, Salt Creek	0/ 11	0/ 12	0/ 10	0/ 11	0/ 6	0/ 8	0/ 11	ND	ND
109 Brookfield Avenue, Salt Creek	0/ 4	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 3	0/ 12	0/ 10	0/ 11	0/ 12	0/ 9	1/ 11	ND	ND
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 7	0/ 11	ND	ND
78 Wille Road, Higgins Creek	0/ 11	0/ 12	0/ 11	0/ 11	0/ 12	1/ 8	0/ 11	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/ 6	0/ 11	0/ 10	0/ 9	0/ 11	0/ 10	0/ 12	ND	ND
13 Lake-Cook Road, Des Plaines River	0/ 10	0/ 12	0/ 12	0/ 9	0/ 12	0/ 10	1/ 12	ND	ND
17 Oakton Street, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 8	0/ 11	ND	ND
19 Belmont Avenue, Des Plaines River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	ND	ND
20 Roosevelt Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	ND	ND
22 Ogden Avenue, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	1/ 10	0/ 12	ND	ND
23 Willow Springs Road, Des Plaines River	0/ 9	0/ 12	0/ 10	0/ 11	0/ 12	0/ 7	0/ 11	ND	ND
29 Stephen Street, Des Plaines River	0/ 11	0/ 12	0/ 9	0/ 11	0/ 12	0/ 8	1/ 11	ND	ND
91 Material Service Road, Des Plaines River	0/ 11	0/ 50	0/ 48	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-8

TOTAL DISSOLVED SOLIDS VIOLATION HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>								
		<u>No. Name</u>	02	01	00	99	98	97	96	95
<u>Chicago River System</u>										
30	Lake-Cook Road, West Fork North Branch	ND	1/ 2	1/ 1	ND	ND	ND	1/ 3	1/ 9	
106	Dundee Road, West Fork North Branch Chicago River	3/ 6	1/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	3/ 11	1/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	3/ 10	1/ 11	0/ 12	1/ 10	2/ 7	1/ 10	
104	Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 10	2/ 11	4/ 10	1/ 11	1/ 12	1/ 10	2/ 7	0/ 9	
105	Frontage Road, Skokie River	1/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1/ 12	2/ 12	4/ 11	1/ 11	1/ 12	1/ 11	3/ 11	1/ 10	
96	Albany Avenue, North Branch Chicago River	1/ 12	2/ 12	1/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 8	0/ 8	
102	Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	1/ 12	
101	Foster Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	1/ 12	1/ 12	0/ 12	0/ 12	0/ 11	1/ 12	
73	Diversey Parkway, North Branch Chicago River	0/ 12	0/ 12	1/ 12	1/ 12	0/ 12	0/ 12	0/ 11	0/ 12	
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 7	
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 10	
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11	
108	Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 11	0/ 9	
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 147	
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 50	1/ 53	1/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>										
49	Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12	0/ 10	0/ 11	
50	Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55	130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	
56	Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52	Wentworth Avenue, Little Calumet River	1/ 11	0/ 11	3/ 11	2/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54	Joe Orr Road, Thorn Creek	7/ 7	10/ 12	6/ 12	7/ 12	8/ 12	9/ 12	5/ 12	3/ 12	
97	170th Street, Thorn Creek	9/ 12	2/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	4/ 12	2/ 10	6/ 11	4/ 11	4/ 12	3/ 12	2/ 9	0/ 11	
58	Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59	Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11	0/ 11	
43	Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 11	
<u>Des Plaines River System</u>										
90	Route 19, Poplar Creek	1/ 9	0/ 11	0/ 7	0/ 10	1/ 11	1/ 9	1/ 11	1/ 10	
63	Longmeadow Lane, West Branch Du Page River	ND	1/ 4	1/ 9	3/ 9	2/ 8	5/ 10	2/ 11	4/ 12	
89	Walnut Lane, West Branch Du Page River	1/ 12	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	2/ 12	1/ 12	
64	Lake Street, West Branch Du Page River	1/ 12	1/ 11	0/ 11	0/ 11	1/ 12	0/ 12	2/ 11	1/ 12	
79	Higgins Road, Salt Creek	1/ 8	3/ 10	3/ 10	2/ 10	2/ 10	2/ 11	2/ 10	2/ 10	
80	Arlington Heights Road, Salt Creek	1/ 10	2/ 12	1/ 12	1/ 11	1/ 12	1/ 12	3/ 12	2/ 12	
18	Devon Avenue, Salt Creek	0/ 10	1/ 12	2/ 12	1/ 11	1/ 12	2/ 12	3/ 12	1/ 12	
24	Wolf Road, Salt Creek	2/ 12	2/ 12	2/ 10	1/ 11	3/ 6	1/ 12	4/ 12	4/ 12	
109	Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	3/ 3	2/ 12	2/ 10	1/ 11	3/ 12	0/ 11	3/ 12	2/ 12	
77	Elmhurst Road, Higgins Creek	2/ 6	3/ 11	3/ 10	3/ 11	4/ 12	4/ 11	4/ 12	3/ 12	
78	Wille Road, Higgins Creek	2/ 12	1/ 12	2/ 12	0/ 11	2/ 12	1/ 12	1/ 12	0/ 12	
12	Lake-Cook Road, Buffalo Creek	0/ 7	2/ 11	2/ 10	0/ 11	2/ 11	1/ 11	3/ 12	1/ 12	
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17	Oakton Street, Des Plaines River	1/ 11	1/ 12	0/ 10	0/ 11	1/ 12	0/ 11	1/ 12	0/ 11	
19	Belmont Avenue, Des Plaines River	2/ 12	1/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 12	0/ 12	
20	Roosevelt Road, Des Plaines River	2/ 12	1/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 12	1/ 12	
22	Ogden Avenue, Des Plaines River	2/ 12	1/ 12	1/ 10	0/ 11	1/ 12	2/ 12	1/ 13	1/ 12	
23	Willow Springs Road, Des Plaines River	1/ 10	1/ 12	0/ 10	0/ 11	1/ 12	0/ 11	0/ 11	0/ 11	
29	Stephen Street, Des Plaines River	2/ 12	1/ 12	1/ 10	0/ 11	1/ 12	1/ 12	1/ 12	1/ 12	
91	Material Service Road, Des Plaines River	1/ 12	4/ 52	7/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-9

PHENOLS VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 8	
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 9	0/ 8	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 9	0/ 8	0/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 10	0/ 11	0/ 10	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 8	0/ 9	0/ 9	0/ 10	0/ 9	0/ 9	0/ 9	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
101 Foster Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
73 Diversay Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 7	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 11	
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 11	0/ 12	0/ 9	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
41 Barlow Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	0/ 12	0/ 12	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 51	0/ 151	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 50	0/ 54	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 10	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 6	0/ 10	0/ 9	0/ 8	0/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 7	0/ 9	0/ 11	0/ 12	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 10	0/ 11	0/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 8	0/ 10	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 11	0/ 11	0/ 11	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 3	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 11	
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 12	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 11	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 10	0/ 12	0/ 11	
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 11	0/ 11	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 11	0/ 11	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11	0/ 11	0/ 11	0/ 11	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 12	0/ 12	
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 10	0/ 9	0/ 10	0/ 10	
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 11	0/ 11	
91 Material Service Road, Des Plaines River	0/ 12	0/ 52	0/ 50	ND	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-10

SULFATE VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		02	01	00	99	98	97	96	95
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106	Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104	Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105	Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 7
102	Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	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
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 10	0/ 12	0/ 12	0/ 9	0/ 10
54	Joe Orr Road, Thorn Creek	6/ 7	8/ 12	2/ 12	3/ 12	4/ 12	4/ 12	3/ 12	0/ 12
97	170th Street, Thorn Creek	6/ 12	0/ 10	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11
58	Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 8
63	Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 10
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
64	Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 10
79	Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 8
80	Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10
18	Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10
24	Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 10
109	Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0/ 3	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
77	Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
12	Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 10
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
17	Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 9
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 10
23	Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 9
29	Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10
91	Material Service Road, Des Plaines River	0/ 12	0/ 52	0/ 50	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-11

FATS, OILS, AND GREASES VIOLATION HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>							
		02	01	00	99	98	97	96	95
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
34	Deepster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	0/ 3	1/ 12	0/ 12	1/ 12
101	Foster Avenue, North Shore Channel	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0/ 12	0/ 10	ND	ND	0/ 3	2/ 12	1/ 12	0/ 12
73	Diversey Parkway, North Branch Chicago River	0/ 12	2/ 10	ND	ND	0/ 2	2/ 12	0/ 12	0/ 12
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 10	ND	ND	0/ 2	2/ 11	1/ 12	1/ 7
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 12	0/ 10	ND	ND	0/ 2	0/ 11	0/ 12	1/ 11
108	Loomis Street, South Branch Chicago River	0/ 12	1/ 9	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0/ 2	0/ 12	0/ 12	2/ 9
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	0/ 2	1/ 12	0/ 12	3/ 12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	0/ 2	1/ 12	0/ 12	2/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	0/ 2	1/ 10	0/ 12	1/ 12
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	0/ 2	2/ 12	0/ 12	3/ 12
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 50	1/ 45	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	ND	ND	ND	ND	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/ 9	ND	ND	0/ 3	2/ 12	1/ 11	1/ 12
56	Indiana Avenue, Little Calumet River	0/ 12	0/ 8	ND	ND	0/ 3	1/ 11	0/ 9	0/ 10
76	Halsted Street, Little Calumet River	0/ 12	0/ 10	ND	ND	0/ 3	2/ 12	0/ 4	0/ 11
52	Westworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 10	ND	ND	ND	1/ 6	0/ 12	0/ 10
59	Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 10	ND	ND	0/ 3	0/ 12	1/ 11	1/ 11
43	Route 83, Calumet Sag Channel	0/ 12	0/ 10	ND	ND	0/ 3	0/ 12	0/ 11	1/ 10
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	ND	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	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-12

TOTAL CYANIDE VIOLATION HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>							
<u>No.</u>	<u>Name</u>	<u>02</u>	<u>01</u>	<u>00</u>	<u>99</u>	<u>98</u>	<u>97</u>	<u>96</u>	<u>95</u>
<u>Chicago River System</u>									
10	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	0/ 9
106	Dundee Road, West Fork North Branch Chicago River	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
31	Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	0/ 10
104	Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	0/ 9
105	Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 10
96	Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	0/ 8
102	Oakton Street, North Shore Channel	ND	ND	ND	ND	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/ 10	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	0/ 2	0/ 9
100	Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108	Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 50	0/ 54	0/ 48	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	0/ 1	0/ 11
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	0/ 3	1/ 12
55	130th Street, Calumet River	ND	ND	ND	ND	ND	ND	0/ 1	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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56	Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76	Balsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	2/ 10
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
97	170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	1/ 11
58	Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59	Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43	Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	0/ 2	0/ 10
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	0/ 2	1/ 12
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	0/ 3	1/ 12
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	0/ 2	0/ 12
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	0/ 1	0/ 10
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	0/ 2	1/ 12
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
109	Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 11
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 2	0/ 11
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	0/ 3	0/ 12
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-13

WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND	ND
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND	ND
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	ND	ND
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	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
73 Diversey Parkway, North Branch Chicago River	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
74 Lake Shore Drive, Chicago River	0/ 11	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	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
99 Archer Avenue, South Fork South Branch Chicago River	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
107 Western Avenue, Chicago Sanitary & Ship Canal	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
41 Harlem Avenue, Chicago Sanitary & Ship Canal	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
48 Stephen Street, Chicago Sanitary & Ship Canal	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
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 9	ND	ND
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 9	ND	ND
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	1/ 11	2/ 11	0/ 12	0/ 12	0/ 9	ND	ND
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 9	ND	ND
97 170th Street, Thorn Creek	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 9	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 8	0/ 8	0/ 8	0/ 10	0/ 9	ND	ND
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 10	0/ 12	0/ 12	0/ 9	ND	ND
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 10	0/ 10	0/ 12	0/ 12	0/ 9	ND	ND
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 9	0/ 10	0/ 10	0/ 11	0/ 9	ND	ND
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 9	0/ 10	0/ 6	0/ 12	0/ 9	ND	ND
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 3	0/ 12	0/ 9	0/ 10	0/ 12	0/ 11	0/ 9	ND	ND
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 9	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
78 Wille Road, Higgins Creek	0/ 11	0/ 12	0/ 11	1/ 11	0/ 12	0/ 12	0/ 9	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 9	0/ 11	0/ 11	0/ 11	0/ 9	ND	ND
13 Lake-Cook Road, Des Plaines River	0/ 11	0/ 12	0/ 11	1/ 11	0/ 12	0/ 11	0/ 9	ND	ND
17 Oakton Street, Des Plaines River	0/ 10	0/ 12	0/ 9	1/ 11	0/ 12	0/ 11	0/ 9	ND	ND
19 Belmont Avenue, Des Plaines River	0/ 11	0/ 12	0/ 9	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
20 Roosevelt Road, Des Plaines River	0/ 11	0/ 12	0/ 9	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 9	0/ 10	0/ 12	0/ 12	0/ 10	ND	ND
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 9	0/ 10	0/ 12	0/ 11	0/ 9	ND	ND
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 9	0/ 10	0/ 12	0/ 12	0/ 9	ND	ND
91 Material Service Road, Des Plaines River	0/ 12	0/ 52	0/ 48	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-14

FLUORIDE VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
16 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/ 10	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 49	0/ 48	0/ 51	0/ 30	0/ 95
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 50	0/ 54	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	10/ 11	11/ 11	7/ 11	4/ 11	2/ 12	6/ 12	2/ 9	3/ 10
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thora Creek	1/ 12	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	8/ 12	4/ 10	5/ 11	0/ 11	2/ 12	1/ 12	0/ 9	1/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 9	0/ 8	0/ 11	0/ 9
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 6	0/ 10	0/ 11	0/ 11
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	1/ 10	0/ 11	0/ 11	0/ 11
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 8	0/ 10	0/ 10	0/ 9
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	1/ 10	0/ 11	0/ 12	0/ 11
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 5	0/ 11	0/ 12	0/ 11
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 3	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 10	0/ 10	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 9	0/ 10	0/ 12	0/ 11
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 10	1/ 10	0/ 12	0/ 11
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 12	0/ 9
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 13	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 10
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11
91 Material Service Road, Des Plaines River	0/ 12	0/ 52	0/ 50	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-15

FECAL COLIFORM VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	2/ 2	1/ 1	ND	ND	ND	4/ 4	9/2	
106 Dundee Road, West Fork North Branch Chicago River	5/ 6	5/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	9/ 11	9/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	9/ 10	10/ 11	7/ 10	9/ 11	10/ 12	7/ 10	7/ 8	8/ 10	
104 Glenview Road, North Branch Chicago River	7/ 9	7/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	6/ 10	11/ 11	8/ 10	11/ 11	10/ 12	9/ 10	8/ 8	9/2	
105 Frontage Road, Skokie River	5/ 12	6/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	11/ 12	10/ 12	11/ 11	11/ 11	11/ 12	5/ 11	9/ 12	8/ 10	
96 Albany Avenue, North Branch Chicago River	11/ 12	12/ 12	6/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	6/ 9	5/ 9	5/ 9	2/ 10	3/ 9	1/ 10	4/ 9	4/ 8	
102 Oakton Street, North Shore Channel	8/ 11	7/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	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
73 Diversey Parkway, North Branch Chicago River	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
74 Lake Shore Drive, Chicago River	0/ 12	1/ 12	2/ 12	0/ 11	2/ 12	0/ 11	1/ 11	1/ 10	
100 Wells Street, Chicago River	2/ 12	4/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	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
99 Archer Avenue, South Fork South Branch Chicago River	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
107 Western Avenue, Chicago Sanitary & Ship Canal	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
41 Harlem Avenue, Chicago Sanitary & Ship Canal	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
48 Stephen Street, Chicago Sanitary & Ship Canal	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
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12	0/ 12	1/ 10	1/ 10
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	3/ 11	2/ 11	1/ 11	0/ 12	0/ 12	1/ 10	1/ 11	
51 IHE Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	10/ 11	11/ 11	10/ 11	10/ 11	11/ 12	12/ 12	8/ 9	9/ 10	
54 Joe Orr Road, Thorn Creek	4/ 7	10/ 12	9/ 12	10/ 12	8/ 12	12/ 12	12/ 12	10/ 12	
97 170th Street, Thorn Creek	6/ 12	9/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	8/ 12	7/ 10	8/ 11	10/ 11	9/ 12	10/ 12	7/ 9	9/ 11	
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	2/ 9	1/ 11	3/ 7	4/ 10	3/ 11	6/ 9	4/ 11	6/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	4/ 4	8/ 9	8/ 9	5/ 8	8/ 10	10/ 11	9/ 12	
89 Walnut Lane, West Branch Du Page River	8/ 12	8/ 12	8/ 12	6/ 11	6/ 12	10/ 12	11/ 12	9/ 12	
64 Lake Street, West Branch Du Page River	9/ 12	10/ 11	8/ 11	7/ 11	7/ 12	11/ 12	10/ 11	10/ 12	
79 Higgins Road, Salt Creek	2/ 8	1/ 10	5/ 10	0/ 10	0/ 10	3/ 11	3/ 10	2/ 10	
80 Arlington Heights Road, Salt Creek	5/ 10	6/ 12	8/ 12	3/ 11	5/ 12	8/ 12	7/ 12	8/ 12	
18 Devon Avenue, Salt Creek	8/ 10	9/ 12	9/ 12	7/ 11	10/ 12	8/ 12	12/ 12	10/ 12	
24 Wolf Road, Salt Creek	6/ 12	7/ 12	8/ 10	5/ 11	5/ 6	11/ 12	11/ 12	12/ 12	
109 Brookfield Avenue, Salt Creek	4/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	3/ 3	10/ 12	9/ 10	9/ 11	8/ 12	8/ 11	10/ 12	10/ 12	
77 Elmhurst Road, Higgins Creek	4/ 6	6/ 11	6/ 10	6/ 11	3/ 12	7/ 11	11/ 12	9/ 12	
78 Wille Road, Higgins Creek	7/ 12	7/ 12	7/ 12	5/ 11	6/ 12	7/ 12	9/ 12	7/ 12	
12 Lake-Cook Road, Buffalo Creek	4/ 7	4/ 11	4/ 10	3/ 11	4/ 11	5/ 11	7/ 12	4/ 12	
13 Lake-Cook Road, Des Plaines River	2/ 12	4/ 12	6/ 12	5/ 11	5/ 12	7/ 11	8/ 12	7/ 12	
17 Oakton Street, Des Plaines River	4/ 11	5/ 12	6/ 10	8/ 11	5/ 12	7/ 11	11/ 12	5/ 11	
19 Belmont Avenue, Des Plaines River	8/ 12	6/ 12	8/ 10	8/ 11	9/ 12	12/ 12	11/ 12	11/ 12	
20 Roosevelt Road, Des Plaines River	7/ 12	6/ 12	8/ 10	9/ 11	11/ 12	11/ 12	10/ 12	11/ 12	
22 Ogden Avenue, Des Plaines River	8/ 12	7/ 12	8/ 10	7/ 11	7/ 12	10/ 12	12/ 13	11/ 12	
23 Willow Springs Road, Des Plaines River	3/ 10	5/ 12	8/ 10	5/ 11	5/ 12	7/ 11	6/ 11	5/ 11	
29 Stephen Street, Des Plaines River	6/ 12	3/ 12	7/ 10	4/ 11	4/ 12	9/ 12	6/ 12	7/ 12	
91 Material Service Road, Des Plaines River	2/ 12	23/ 52	19/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-16

GROSS BETA RADIOACTIVITY VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year								
		02	01	00	99	98	97	96	95	
<u>Chicago River System</u>										
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 4	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 9	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0/ 9	0/ 9	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 10	0/ 9	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 7	0/ 9	0/ 10	ND	0/ 10	0/ 9	0/ 8	ND
102	Oakton Street, North Shore Channel	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	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
73	Diversey Parkway, North Branch Chicago River	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
74	Lake Shore Drive, Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	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
99	Archer Avenue, South Fork South Branch Chicago River	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
107	Western Avenue, Chicago Sanitary & Ship Canal	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
41	Harlem Avenue, Chicago Sanitary & Ship Canal	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
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trehler, Chicago Sanitary & Ship Canal	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
<u>Calumet River System</u>										
49	Ewing Avenue, Calumet River	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 8	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0/ 10	0/ 9	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0/ 7	0/ 9	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0/ 11	0/ 9	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 11	0/ 8	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>										
90	Route 19, Poplar Creek	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	0/ 3	0/ 9	0/ 9	ND	0/ 10	0/ 11	0/ 11	ND
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 10	0/ 12	0/ 11	ND	0/ 12	0/ 12	0/ 11	ND
64	Lake Street, West Branch Du Page River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	ND	0/ 10	0/ 10	0/ 10	ND
80	Arlington Heights Road, Salt Creek	0/ 10	0/ 10	0/ 12	0/ 11	ND	0/ 12	0/ 12	0/ 11	ND
18	Devon Avenue, Salt Creek	0/ 10	0/ 10	ND	ND	ND	0/ 1	ND	ND	ND
24	Wolf Road, Salt Creek	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0/ 3	0/ 10	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0/ 6	0/ 9	0/ 10	0/ 11	ND	0/ 11	0/ 12	0/ 10	ND
78	Wille Road, Higgins Creek	0/ 12	0/ 10	0/ 12	0/ 11	ND	0/ 12	0/ 12	0/ 11	ND
12	Lake-Cook Road, Buffalo Creek	0/ 7	0/ 9	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0/ 10	0/ 10	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0/ 12	0/ 43	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-17

TOTAL SILVER VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1/ 11	1/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	2/ 10	0/ 11	1/ 10	1/ 11	1/ 12	0/ 10	1/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	1/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1/ 10	0/ 11	1/ 10	0/ 11	1/ 12	0/ 10	1/ 8	0/ 9
105 Frontage Road, Skokie River	1/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1/ 12	1/ 12	0/ 11	1/ 11	2/ 12	0/ 11	1/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	1/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 11	0/ 10	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 11	1/ 11	0/ 10
100 Wells Street, Chicago River	3/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108 Locms Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	2/ 12	0/ 12	2/ 12	0/ 12	2/ 12	3/ 12	1/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	1/ 12	0/ 11	0/ 12	0/ 12	2/ 12	1/ 12	1/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	1/ 12	0/ 12	1/ 10	0/ 11
51 IHN 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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	3/ 11	0/ 11	2/ 11	0/ 11	2/ 12	0/ 12	2/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	1/ 7	0/ 12	1/ 12	0/ 12	2/ 12	0/ 12	2/ 12	0/ 12
97 170th Street, Thorn Creek	2/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1/ 12	0/ 10	2/ 11	0/ 11	0/ 12	1/ 12	2/ 9	0/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	1/ 9	0/ 11	0/ 7	0/ 10	1/ 11	3/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	3/ 10	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	3/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	1/ 11	0/ 11	1/ 12	4/ 12	1/ 11	0/ 12
79 Higgins Road, Salt Creek	1/ 8	0/ 10	0/ 10	0/ 10	1/ 10	4/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	3/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	4/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	1/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	1/ 10	0/ 11	0/ 12	1/ 11	1/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	4/ 11	1/ 12	0/ 12
78 Wille Road, Higgins Creek	1/ 12	0/ 12	0/ 12	0/ 11	0/ 12	2/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	1/ 7	0/ 11	0/ 10	0/ 11	0/ 11	4/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	2/ 12	0/ 12	0/ 12	0/ 11	0/ 12	3/ 11	0/ 12	0/ 12
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	1/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	1/ 12	1/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	1/ 12	0/ 12	0/ 10	1/ 11	0/ 12	3/ 12	1/ 13	0/ 12
23 Willow Springs Road, Des Plaines River	1/ 10	0/ 12	0/ 10	0/ 11	0/ 12	2/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12
91 Material Service Road, Des Plaines River	0/ 12	1/ 51	2/ 50	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-18

TOTAL ARSENIC VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Branch Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11
51 IHS 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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-19

TOTAL BARIUM VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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 Diversy Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-20

TOTAL BORON VIOLATION HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>							
No.	Name	02	01	00	99	98	97	96	95
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	ND
106	Dundas Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND
104	Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND
105	Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	ND
102	Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 9	ND
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	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
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 7	ND
50	Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 7	ND
55	130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 7	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	1/ 12	0/ 7	ND
54	Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 7	ND
97	170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	1/ 12	0/ 7	ND
58	Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 9	ND
63	Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 9	ND
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND
64	Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND
79	Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 9	ND
80	Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND
18	Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND
24	Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 9	ND
109	Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND
77	Blmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND
12	Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 9	ND
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 9	ND
17	Oakton Steet, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 9	ND
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 9	ND
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 10	ND
23	Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND
29	Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 9	ND
91	Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-21

TOTAL CADMIUM VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	1/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11
51 IHS 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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND

ND = NO DATA

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-22

TOTAL COPPER VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	3/ 9	ND
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	2/ 10	ND
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	0/ 12	0/ 10	0/ 8	2/ 10	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	2/ 9	ND
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	2/ 10	ND
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	1/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	4/ 9	1/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	2/ 8	ND
102 Oakton Street, North Shore Channel	2/ 11	1/ 10	ND	ND	ND	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	0/ 12
101 Foster Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	ND	ND	ND	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	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	0/ 12
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7	ND
74 Lake Shore Drive, Chicago River	1/ 12	0/ 12	1/ 12	0/ 11	0/ 12	0/ 11	0/ 11	1/ 10	ND
100 Wells Street, Chicago River	2/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	ND
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	1/ 52	0/ 51	0/ 52	0/ 48	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	1/ 12	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12	0/ 10	2/ 11	ND
50 Burnham Avenue, Wolf Lake	1/ 12	2/ 11	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	1/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	1/ 11	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	ND
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	ND
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	ND
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	1/ 11	0/ 11	0/ 12	0/ 12	0/ 9	1/ 10	ND
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	ND
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	ND
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	ND
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	ND
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	1/ 10	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	5/ 12	ND
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	ND
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	2/ 12	ND
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	2/ 10	ND
80 Arlington Heights Road, Salt Creek	0/ 10	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	ND
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	ND
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	1/ 12	ND
109 Brookfield Avenue, Salt Creek	1/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	ND
77 Elmhurst Road, Higgins Creek	2/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	ND
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	ND
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	1/ 12	ND
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	2/ 12	ND
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 11	ND
19 Belmont Avenue, Des Plaines River	1/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	ND
20 Roosevelt Road, Des Plaines River	1/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	ND
22 Ogden Avenue, Des Plaines River	1/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	2/ 12	ND
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	2/ 11	ND
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	ND
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-23

TOTAL CHROMIUM VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	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/ 10	ND	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Treblez, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54 Joe Orr Road, Thora Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-24

TOTAL IRON VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	2/ 2	1/ 1	ND	ND	ND	1/ 4	1/ 9	
106 Dundee Road, West Fork North Branch Chicago River	2/ 6	4/ 5	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	5/ 11	5/ 10	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	3/ 10	9/ 11	0/ 10	1/ 11	0/ 12	1/ 10	2/ 8	3/ 10	
104 Glenview Road, North Branch Chicago River	1/ 9	1/ 10	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	1/ 10	3/ 11	0/ 10	0/ 11	0/ 12	0/ 10	1/ 8	2/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	4/ 12	5/ 12	0/ 11	1/ 11	0/ 12	0/ 11	1/ 12	1/ 10	
96 Albany Avenue, North Branch Chicago River	5/ 12	1/ 12	0/ 6	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	1/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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	1/ 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/ 11	0/ 12	0/ 7	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	1/ 10	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	6/ 50	9/ 52	10/ 51	3/ 52	0/ 48	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	1/ 12	1/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	1/ 11	0/ 10	0/ 11	0/ 11	1/ 12	0/ 12	4/ 11	4/ 13	
56 Indiana Avenue, Little Calumet River	1/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52 Wentworth Avenue, Little Calumet River	10/ 11	8/ 11	8/ 11	4/ 11	8/ 12	5/ 12	5/ 9	1/ 10	
54 Joe Orr Road, Thorn Creek	0/ 7	2/ 12	2/ 12	0/ 12	1/ 12	2/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	1/ 11	9/ 10	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	4/ 12	8/ 10	1/ 11	2/ 11	2/ 12	2/ 12	1/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59 Cicero Avenue, Calumet Sag Channel	0/ 12	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
43 Route 83, Calumet Sag Channel	0/ 12	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	3/ 9	2/ 11	1/ 7	0/ 10	0/ 11	2/ 9	4/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	4/ 4	2/ 9	1/ 9	2/ 8	0/ 10	4/ 11	2/ 12	
89 Walnut Lane, West Branch Du Page River	1/ 12	1/ 12	0/ 12	1/ 11	0/ 12	0/ 12	1/ 12	1/ 12	
64 Lake Street, West Branch Du Page River	2/ 12	5/ 11	2/ 11	0/ 11	0/ 12	2/ 12	3/ 11	2/ 12	
79 Higgins Road, Salt Creek	6/ 8	5/ 10	4/ 10	1/ 10	1/ 10	2/ 11	3/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	1/ 12	0/ 12	1/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	2/ 12	1/ 12	2/ 11	0/ 12	1/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	2/ 12	5/ 12	0/ 10	1/ 11	0/ 6	1/ 12	0/ 12	2/ 12	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	0/ 4	2/ 12	1/ 10	0/ 11	1/ 12	0/ 11	1/ 12	1/ 12	
77 Elmhurst Road, Higgins Creek	3/ 6	6/ 11	1/ 10	3/ 11	2/ 12	2/ 11	5/ 12	4/ 12	
78 Wille Road, Higgins Creek	1/ 12	1/ 12	0/ 12	0/ 11	1/ 12	0/ 12	1/ 12	2/ 12	
12 Lake-Cook Road, Buffalo Creek	4/ 7	3/ 11	4/ 10	3/ 11	0/ 11	0/ 11	3/ 12	0/ 12	
13 Lake-Cook Road, Des Plaines River	5/ 12	6/ 12	2/ 12	1/ 11	1/ 12	0/ 11	1/ 12	0/ 12	
17 Oakton Street, Des Plaines River	2/ 11	4/ 12	2/ 10	1/ 11	0/ 12	1/ 11	0/ 12	0/ 11	
19 Belmont Avenue, Des Plaines River	2/ 12	4/ 12	0/ 10	0/ 11	0/ 12	1/ 12	1/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	3/ 12	1/ 12	1/ 10	0/ 11	0/ 12	2/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	3/ 12	2/ 12	0/ 10	0/ 11	0/ 12	2/ 12	0/ 13	0/ 12	
23 Willow Springs Road, Des Plaines River	0/ 10	8/ 12	1/ 10	0/ 11	0/ 12	1/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	2/ 12	9/ 12	1/ 10	0/ 11	1/ 12	0/ 12	1/ 12	0/ 12	
91 Material Service Road, Des Plaines River	4/ 12	31/ 51	7/ 50	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-25

SOLUBLE IRON VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	ND	ND
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	ND	ND
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	ND	ND
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	ND	ND
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND
101 Foster Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND
73 Diversey Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	ND	ND
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	ND	ND
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	ND	ND
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND
42 Route #3, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	1/ 52	0/ 51	0/ 52	0/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	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	1/ 11	0/ 11	1/ 12	0/ 12	ND	ND
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	ND	ND
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	1/ 12	0/ 12	ND	ND
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12	ND	ND
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	1/ 12	0/ 12	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	1/ 6	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	ND	ND
43 Route #3, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	ND	ND
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	1/ 9	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	ND	ND
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	ND	ND
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	ND	ND
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	ND	ND
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	ND	ND
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-26

TOTAL LEAD VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	2/ 10	
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	1/ 10	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	
101 Poster Avenue, North Shore Channel	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	
73 Diversey Parkway, North Branch Chicago River	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	1/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	1/ 51	2/ 52	0/ 48	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	3/ 11	0/ 13	
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	1/ 12	0/ 11	
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11	0/ 12	
43 Route 83, Calumet Sag Channel	0/ 12	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
79 Higgins Road, Salt Creek	0/ 8	1/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	1/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	
77 Bluhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17 Oakton Steet, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 11	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	1/ 12	
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-27

TOTAL NICKEL VIOLATION HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>								
<u>No.</u>	<u>Name</u>	<u>02</u>	<u>01</u>	<u>00</u>	<u>99</u>	<u>98</u>	<u>97</u>	<u>96</u>	<u>95</u>	
<u>Chicago River System</u>										
30	Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	
106	Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	
103	Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	
31	Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	
104	Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	
32	Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 5	0/ 9	
105	Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	
102	Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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	Diverssy 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/ 11	0/ 12	0/ 7	
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	
100	Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	
39	Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
108	Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	
99	Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	
<u>Calumet River System</u>										
49	Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	
50	Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55	130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	
56	Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54	Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97	170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	
57	Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58	Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59	Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
43	Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
<u>Des Plaines River System</u>										
90	Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	
63	Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
64	Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
79	Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	
80	Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
18	Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
24	Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	
109	Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	
21	First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
77	Elmhurst Road, Higgins Creek	0/ 6	0/ 14	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
12	Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17	Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
23	Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	
29	Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
91	Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-28

TOTAL MANGANESE VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	1/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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	1/ 12	0/ 12	0/ 12
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	1/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	1/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	1/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 11	0/ 12	0/ 12
17 Oakton Steet, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	1/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 49	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-29

TOTAL MERCURY VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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	1/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	1/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 10
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	3/ 11	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 11	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 10
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 4	0/ 11
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 9
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	1/ 6	0/ 12	0/ 10
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11	0/ 11
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	1/ 11	0/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	1/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12
29 Stephen Street, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-30

TOTAL ZINC VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	02	01	00	99	98	97	96	95
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	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/ 10	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	1/ 52	0/ 48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	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/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
43 Route 83, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12
17 Oakton Steet, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11
29 Stephan Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-31

TOTAL SELENIUM VIOLATION HISTORY THROUGH 2002

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	02	01	00	99	98	97	96	95	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	
106 Dundee Road, West Fork North Branch Chicago River	0/ 6	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 9	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	
105 Frontage Road, Skokie River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 5	0/ 8	
102 Oakton Street, North Shore Channel	0/ 11	0/ 10	ND	ND	ND	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/ 10	ND	ND	ND	ND	ND	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/ 11	0/ 12	0/ 7	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	
100 Wells Street, Chicago River	0/ 12	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 51	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	
56 Indiana Avenue, Little Calumet River	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	
54 Joe Orr Road, Thorn Creek	0/ 7	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 11	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	
58 Ashland Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	
59 Cicero Avenue, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
43 Route 81, Calumet Sag Channel	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	
63 Longmeadow Lane, West Branch Du Page River	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	
79 Higgins Road, Salt Creek	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
18 Devon Avenue, Salt Creek	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	
109 Brookfield Avenue, Salt Creek	0/ 6	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0/ 4	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
77 Elmhurst Road, Higgins Creek	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
12 Lake-Cook Road, Buffalo Creek	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	
17 Oakton Street, Des Plaines River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
91 Material Service Road, Des Plaines River	0/ 12	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-32

BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00
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	3.00
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	2.00
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	4.00
96	Albany Avenue, North Branch Chicago River	3.50	3.30	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	2.56	1.56	ND	ND	ND	ND	ND	ND	ND	ND	4.00
102	Oakton Street, North Shore Channel	3.45	2.30	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	6.58	6.90	ND	ND	ND	ND	ND	ND	ND	ND	14.00
101	Pouter Avenue, North Shore Channel	6.58	4.90	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	4.92	4.10	ND	ND	ND	ND	ND	ND	ND	ND	8.00
73	Diversey Parkway, North Branch Chicago River	3.00	3.80	ND	ND	ND	ND	ND	ND	ND	ND	4.00
46	Grand Avenue, North Branch Chicago River	1.83	4.00	ND	ND	ND	ND	ND	ND	ND	ND	6.00
74	Lake Shore Drive, Chicago River	2.08	0.80	ND	ND	ND	ND	ND	ND	ND	ND	4.00
100	Wells Street, Chicago River	2.33	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	2.58	2.50	ND	ND	ND	ND	ND	ND	ND	ND	5.00
108	Loomis Street, South Branch Chicago River	2.92	1.89	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	4.83	4.80	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	8.00
107	Western Avenue, Chicago Sanitary & Ship Canal	3.75	4.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	2.58	2.20	ND	ND	ND	ND	ND	ND	ND	ND	4.00
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2.25	2.90	ND	ND	ND	ND	ND	ND	ND	ND	7.00
42	Route 83, Chicago Sanitary & Ship Canal	2.58	2.90	ND	ND	ND	ND	ND	ND	ND	ND	4.00
48	Stephen Street, Chicago Sanitary & Ship Canal	1.25	1.67	ND	ND	ND	ND	ND	ND	ND	ND	7.00
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	6.60	6.20	5.29	7.10	6.19	4.41	4.77	4.76	5.04
92	Lockport Forebay, Chicago Sanitary & Ship Canal	1.74	2.82	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.92	0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	0.00	ND	ND	ND	ND	ND	ND	ND	ND	7.00
55	130th Street, Calumet River	1.67	0.60	ND	ND	ND	ND	ND	ND	ND	ND	5.00
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	4.50	ND	ND	ND	ND	ND	ND	ND	ND	7.00
56	Indiana Avenue, Little Calumet River	2.42	2.75	ND	ND	ND	ND	ND	ND	ND	ND	6.00
76	Halsted Street, Little Calumet River	1.58	2.90	ND	ND	ND	ND	ND	ND	ND	ND	7.00
52	Wentworth Avenue, Little Calumet River	ND	3.00	ND	ND	ND	ND	ND	ND	ND	ND	6.00
54	Joe Orr Road, Thorn Creek	ND	2.00	ND	ND	ND	ND	ND	ND	ND	ND	12.00
97	170th Street, Thorn Creek	ND	3.50	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	2.17	3.33	ND	ND	ND	ND	ND	ND	ND	ND	4.00
58	Ashland Avenue, Calumet Sag Channel	1.25	2.50	ND	ND	ND	ND	ND	ND	ND	ND	6.00
59	Cicero Avenue, Calumet Sag Channel	2.50	2.30	ND	ND	ND	ND	ND	ND	ND	ND	6.00
43	Route 83, Calumet Sag Channel	1.56	2.30	ND	ND	ND	ND	ND	ND	ND	ND	7.00
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.00
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.00
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	3.00
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00
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	4.00
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.00
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.00
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.00
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-33

CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundas 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	2.364	2.300	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	1.111	0.222	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	1.909	2.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	2.000	2.200	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	2.333	1.300	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	2.083	1.400	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	1.333	1.200	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.500	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	1.500	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	1.636	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1.417	1.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	1.500	0.889	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	2.250	3.500	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	1.750	1.400	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.750	1.300	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.500	1.300	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.583	1.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.500	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trencher, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.400	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Bwing Avenue, Calumet River	0.833	0.600	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	1.250	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	3.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	1.917	1.375	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.667	1.400	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	ND	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	2.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	ND	2.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.583	1.778	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	0.667	1.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	0.917	1.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	0.833	0.700	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page 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	Wills Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Maternal Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-34

CHEMICAL OXYGEN DEMAND MEAN HISTORY THROUGH 2002

No.	Sampling Station Name	Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	26.3	31.5	38.2	32.8
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	21.0	33.3	33.8	28.5
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	23.7	33.3	29.9	27.7
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	17.5	48.8	25.6	26.3
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	8.7	12.5	12.4	11.7
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	22.8	27.8	22.4	22.8
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	26.6	26.0	21.4	22.3
73	Diverser Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	16.4	24.7	22.3	20.0
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	24.0	25.0	21.3	22.0
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	5.8	10.4	13.4	9.8
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	19.8	15.8	15.8	17.9
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	31.7	20.7	16.1	18.0
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	17.2	22.0	18.8	16.8
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	18.4	26.3	21.6	25.4
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	16.8	26.6	20.4	20.8
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	29.8	26.7	25.3	27.6
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	22.3	28.4	26.7	23.9
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	9.6	10.2	9.7	14.9
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	14.3	23.9	19.2	19.7
55	130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	12.8	13.6	13.8	13.0
51	IHB Rail Road Bridge, Grand 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	49.3	59.9	60.7	90.4
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	26.0	25.8	28.2	20.0
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	29.2	29.3	27.6	30.0
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	27.5	37.2	37.9	35.1
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	27.0	33.9	34.5	27.0
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	27.4	33.8	32.1	31.1
58	Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	31.6	30.6	29.2	30.9
59	Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	32.0	31.1	31.4	27.6
43	Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	31.3	31.5	33.4	26.2
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	35.8	33.3	33.8	27.7
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	62.5	40.7	40.3	36.1
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	54.0	40.9	34.8	35.6
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	51.0	44.4	41.8	35.1
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	38.6	40.8	34.1	30.6
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	28.5	29.9	25.0	27.8
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	30.8	35.4	29.1	27.9
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	33.8	39.2	32.0	31.6
109	Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Firat Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	31.0	37.7	36.8	30.3
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	39.8	57.4	33.8	35.2
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	37.2	35.1	29.1	29.3
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	34.3	37.5	37.4	30.7
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	28.0	36.3	32.2	29.4
17	Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	36.5	34.0	30.0	34.3
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	45.0	45.4	32.3	34.2
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	31.7	40.0	30.9	37.0
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	31.2	42.2	34.3	32.5
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	30.7	40.4	30.0	32.6
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	35.2	44.4	36.0	36.6
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-35

DISSOLVED OXYGEN MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	10.75	10.50	ND	ND	ND	8.73	7.51	9.35	6.37	7.54
106	Dundee Road, West Fork North Branch Chicago River	9.12	9.54	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	7.10	6.98	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	6.55	6.91	6.99	6.72	6.56	7.44	6.51	5.74	6.04	6.86	6.90
104	Glenview Road, North Branch Chicago River	8.08	7.36	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	7.14	7.65	7.25	6.59	7.56	7.49	7.91	6.63	6.11	7.41	7.40
105	Frontage Road, Skokie River	8.15	7.49	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	7.75	7.29	7.50	7.93	8.04	8.18	8.45	6.88	7.66	7.33	7.83
96	Albany Avenue, North Branch Chicago River	7.71	7.42	6.80	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	7.34	8.03	7.48	7.51	7.20	9.69	6.36	8.18	9.20	9.23	9.47
102	Oakton Street, North Shore Channel	6.58	5.80	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	6.90	7.39	7.24	7.43	7.31	7.85	7.35	6.45	7.58	7.65	7.39
101	Foster Avenue, North Shore Channel	6.53	6.87	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	6.74	7.13	6.88	6.75	7.04	7.36	6.82	6.37	6.65	7.29	7.43
73	Diversey Parkway, North Branch Chicago River	5.74	6.18	5.84	5.81	6.05	6.36	6.27	6.08	6.67	6.58	6.96
46	Grand Avenue, North Branch Chicago River	5.86	6.00	6.13	6.53	6.35	5.92	6.95	6.93	5.98	5.65	5.83
74	Lake Shore Drive, Chicago River	9.03	7.99	8.04	9.26	9.36	9.79	10.15	9.68	9.68	9.76	9.17
100	Wells Street, Chicago River	7.83	7.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	6.38	6.32	6.67	6.89	7.38	7.82	8.75	8.02	8.36	7.03	7.82
108	Loomis Street, South Branch Chicago River	5.86	5.79	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	3.91	2.62	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	5.43	6.19	7.00	7.48	8.21	7.08	7.65	6.03	7.39
107	Western Avenue, Chicago Sanitary & Ship Canal	5.60	5.34	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	5.18	5.28	4.98	5.99	6.21	7.16	6.85	7.00	6.81	5.88	6.64
41	Harlem Avenue, Chicago Sanitary & Ship Canal	6.95	6.60	6.52	7.16	7.13	6.96	7.16	6.97	7.20	6.23	6.84
42	Route 83, Chicago Sanitary & Ship Canal	6.09	5.46	5.46	5.76	5.90	6.23	6.35	6.10	6.10	5.50	6.43
48	Stephen Street, Chicago Sanitary & Ship Canal	5.73	5.38	5.40	5.63	6.03	6.07	6.40	5.88	5.88	5.27	5.42
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	5.32	5.34	5.65	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	9.65	8.99	9.44	9.81	9.36	10.17	9.53	9.99	8.85	10.56	9.63
50	Burnham Avenue, Wolf Lake	9.77	8.70	9.33	9.45	9.25	9.73	10.25	9.56	8.99	9.92	9.69
55	130th Street, Calumet River	9.17	8.41	8.43	8.97	8.56	8.95	8.97	9.92	9.95	9.63	8.18
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	6.22	4.19	4.43	5.14	5.63	5.25	3.19	3.55	2.50	3.27	3.16
56	Indiana Avenue, Little Calumet River	8.69	8.59	8.20	8.48	7.84	8.16	8.72	8.00	6.59	7.34	8.38
76	Halsted Street, Little Calumet River	6.92	6.69	6.60	6.69	6.60	6.53	7.35	6.29	6.09	5.84	6.31
52	Wentworth Avenue, Little Calumet River	6.47	6.20	6.52	6.23	6.91	6.47	6.08	6.43	6.01	7.43	6.43
54	Joe Orr Road, Thorn Creek	8.54	8.27	8.28	8.85	8.61	8.03	8.36	8.58	8.33	7.72	8.18
97	170th Street, Thorn Creek	8.37	7.29	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	7.29	5.75	6.28	5.80	6.14	6.08	5.56	6.77	6.25	6.93	6.70
58	Ashland Avenue, Calumet Sag Channel	6.48	6.41	6.37	6.21	5.61	6.66	6.31	5.85	6.34	6.18	6.25
59	Cicero Avenue, Calumet Sag Channel	6.85	5.93	6.35	6.12	6.04	6.44	6.26	6.29	5.81	6.68	5.91
43	Route 81, Calumet Sag Channel	6.93	6.04	6.17	5.95	5.64	6.04	5.83	5.24	5.99	5.64	5.64
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	8.94	9.52	7.91	10.15	8.40	9.26	9.09	9.71	10.03	8.67	9.88
63	Longmeadow Lane, West Branch Du Page River	ND	8.18	7.50	10.04	8.36	9.38	7.76	9.29	8.62	8.76	8.33
89	Walnut Lane, West Branch Du Page River	7.64	6.82	7.01	8.20	7.33	8.22	7.61	8.43	8.92	7.63	8.98
64	Lake Street, West Branch Du Page River	8.38	8.25	7.79	8.74	7.79	7.71	7.37	8.47	9.10	8.49	9.22
79	Higgins Road, Salt Creek	7.59	8.88	7.09	9.07	7.77	8.94	7.35	9.28	8.34	7.65	9.31
80	Arlington Heights Road, Salt Creek	8.07	8.29	7.79	7.97	7.31	8.43	7.74	8.42	8.27	8.58	8.80
18	Devon Avenue, Salt Creek	7.96	8.24	7.78	7.93	7.66	8.98	7.26	8.85	8.10	8.64	9.98
24	Wolf Road, Salt Creek	7.79	8.50	7.74	9.04	9.70	9.73	8.89	8.94	9.32	9.63	9.73
109	Brookfield Avenue, Salt Creek	5.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	10.90	7.98	6.72	7.65	6.48	7.07	7.08	7.49	7.63	7.42	8.11
77	Elmhurst Road, Higgins Creek	8.22	8.42	7.71	9.39	7.97	9.23	7.95	8.28	8.75	9.94	9.06
78	Wille Road, Higgins Creek	8.55	8.93	8.43	8.61	7.80	8.97	8.26	8.36	8.07	8.88	8.56
12	Lake-Cook Road, Buffalo Creek	8.60	9.93	7.97	8.60	8.47	8.63	8.50	10.18	8.85	9.42	10.28
13	Lake-Cook Road, Des Plaines River	9.35	9.02	8.04	8.46	8.01	8.55	7.06	8.86	8.97	8.15	8.58
17	Oakton Street, Des Plaines River	8.17	9.00	7.66	8.32	8.11	8.49	7.94	8.14	8.50	6.33	8.27
19	Belmont Avenue, Des Plaines River	7.74	8.59	6.41	7.26	6.58	8.26	7.18	7.38	6.38	7.14	7.70
20	Roosevelt Road, Des Plaines River	7.96	8.31	6.44	7.24	6.44	6.05	7.28	7.63	7.28	7.53	8.28
22	Ogden Avenue, Des Plaines River	9.34	9.20	7.72	8.43	8.40	9.18	8.25	8.61	8.23	8.55	9.26
23	Willow Springs Road, Des Plaines River	8.99	9.44	7.65	8.68	8.41	9.14	8.42	8.85	9.06	7.93	8.89
29	Stephen Street, Des Plaines River	9.53	9.98	7.81	9.15	9.11	9.74	8.82	8.43	9.78	8.12	9.54
91	Material Service Road, Des Plaines River	10.31	8.71	8.42	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-36

TEMPERATURE MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (°C)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	4.1	1.1	ND	ND	ND	15.0	16.3	21.1	14.3	14.3
106	Dundee Road, West Fork North Branch Chicago River	10.8	16.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	12.5	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	11.7	14.2	15.5	13.9	12.2	11.6	13.4	12.8	13.3	11.7	12.9
104	Glenview Road, North Branch Chicago River	10.4	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	11.9	14.4	15.5	14.0	11.9	12.1	13.1	14.9	15.6	12.1	13.5
105	Frontage Road, Skokie River	12.7	16.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	12.3	14.2	15.3	14.5	13.2	12.4	10.9	14.0	13.6	12.7	12.7
96	Albany Avenue, North Branch Chicago River	12.9	15.3	16.0	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	14.3	15.3	18.0	15.9	16.2	12.0	13.9	15.0	16.2	11.8	12.4
102	Oakton Street, North Shore Channel	14.9	16.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	16.5	16.9	15.8	16.9	15.8	12.8	14.7	14.2	15.2	15.1	14.9
101	Poster Avenue, North Shore Channel	15.3	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	15.1	15.1	14.9	16.0	15.2	12.4	13.7	13.0	14.6	10.6	14.9
73	Diversey Parkway, North Branch Chicago River	15.2	15.3	15.4	16.5	15.4	12.4	13.7	13.5	15.1	14.8	15.1
46	Grand Avenue, North Branch Chicago River	15.3	15.6	14.4	15.1	15.0	14.6	12.1	8.8	14.5	12.2	14.0
74	Lake Shore Drive, Chicago River	12.8	14.0	13.8	14.9	13.3	11.5	10.6	12.4	13.6	9.7	11.4
100	Wells Street, Chicago River	14.0	16.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	14.1	15.0	14.7	14.7	13.8	12.1	10.8	12.2	10.9	11.1	12.7
108	Loomis Street, South Branch Chicago River	17.8	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	17.2	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	18.3	16.8	15.4	13.3	11.6	14.9	13.8	12.8	13.1
107	Western Avenue, Chicago Sanitary & Ship Canal	17.1	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	18.8	18.1	18.7	15.6	18.0	12.5	13.5	14.1	14.3	14.5	13.7
41	Harlem Avenue, Chicago Sanitary & Ship Canal	16.9	17.1	17.0	17.9	16.7	13.9	13.5	13.7	15.1	13.6	14.1
42	Route 83, Chicago Sanitary & Ship Canal	16.6	16.9	19.1	18.0	17.2	15.0	14.7	14.8	14.5	14.5	14.7
48	Stephen Street, Chicago Sanitary & Ship Canal	16.4	16.9	18.3	18.5	16.6	14.6	14.2	14.4	14.9	13.3	14.5
82	Lockport Treblec, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	18.7	18.3	19.1	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	12.7	13.0	13.4	13.5	14.8	12.6	13.3	13.1	13.3	11.7	13.1
50	Burnham Avenue, Wolf Lake	12.1	14.1	13.5	13.6	15.0	12.4	12.5	13.1	14.0	12.7	12.8
55	130th Street, Calumet River	12.3	15.1	14.8	15.7	15.5	13.3	14.8	15.3	14.6	12.8	12.8
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	12.9	15.5	15.1	15.3	15.6	13.7	13.9	14.3	15.4	14.3	14.5
56	Indiana Avenue, Little Calumet River	13.6	17.8	15.2	15.7	16.7	14.1	14.7	14.4	15.2	13.3	14.1
76	Halsted Street, Little Calumet River	14.8	15.0	16.2	16.5	16.4	13.6	4.3	14.9	14.5	14.8	15.5
52	Wentworth Avenue, Little Calumet River	13.1	13.9	14.6	15.3	14.3	11.9	14.7	14.7	14.3	12.5	12.7
54	Joe Orr Road, Thorn Creek	15.0	15.9	17.3	15.0	15.8	13.2	14.0	15.4	14.7	15.2	16.4
97	170th Street, Thorn Creek	14.4	15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	12.9	15.7	15.6	16.0	14.6	11.2	15.2	13.6	15.5	13.5	13.9
58	Ashland Avenue, Calumet Sag Channel	14.5	14.7	15.7	16.7	19.1	14.1	13.6	15.5	13.7	13.8	14.4
59	Cicero Avenue, Calumet Sag Channel	16.3	14.5	15.5	16.6	16.0	13.1	14.4	13.9	14.1	13.8	14.6
43	Route 83, Calumet Sag Channel	14.9	14.2	15.5	16.5	15.5	14.0	14.9	13.5	13.3	14.2	14.2
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	16.3	14.0	17.7	13.1	17.1	14.6	13.7	15.3	13.2	13.1	13.3
63	Longmeadow Lane, West Branch Du Page River	ND	11.3	16.2	13.9	17.8	10.6	13.4	13.2	15.4	12.5	12.6
89	Walnut Lane, West Branch Du Page River	15.5	15.8	15.2	16.1	18.3	15.1	14.3	15.5	14.0	14.3	15.0
64	Lake Street, West Branch Du Page River	14.2	16.0	15.5	14.7	17.9	13.9	14.7	14.1	14.8	15.0	14.3
79	Higgins Road, Salt Creek	18.9	16.8	15.9	14.4	19.1	14.2	14.5	16.1	16.1	14.1	12.8
80	Arlington Heights Road, Salt Creek	14.2	14.5	14.2	15.2	17.6	14.2	15.2	14.4	12.7	14.1	14.0
18	Devon Avenue, Salt Creek	14.6	14.5	14.5	14.8	17.5	13.5	14.8	14.7	15.0	14.0	19.8
24	Wolf Road, Salt Creek	12.3	13.8	16.3	14.8	9.9	9.6	14.2	13.9	14.3	13.6	12.7
109	Brookfield Avenue, Salt Creek	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Firat Avenue, Salt Creek	1.4	13.5	15.3	13.5	14.8	11.6	13.5	12.5	13.0	12.1	10.7
77	Elmhurst Road, Higgins Creek	15.0	14.5	15.2	14.0	15.3	9.2	12.3	12.7	13.1	12.2	12.2
78	Wille Road, Higgins Creek	16.0	15.6	16.3	16.1	17.3	11.5	15.3	15.4	15.4	14.7	14.6
12	Lake-Cook Road, Buffalo Creek	13.7	13.4	15.4	12.9	16.9	12.1	13.2	14.6	15.7	13.1	11.4
13	Lake-Cook Road, Des Plaines River	12.2	13.3	13.3	12.9	15.7	11.6	13.8	13.1	12.7	12.3	12.4
17	Oakton Street, Des Plaines River	14.4	13.5	15.1	13.8	15.1	10.0	13.3	13.6	2.1	12.8	12.4
19	Belmont Avenue, Des Plaines River	12.1	13.5	15.1	13.7	15.3	10.7	13.4	13.0	12.8	12.7	11.8
20	Roosevelt Road, Des Plaines River	12.2	13.8	15.0	13.3	15.2	10.6	13.5	12.4	12.5	12.2	11.5
22	Ogden Avenue, Des Plaines River	11.3	13.9	15.5	14.1	14.8	11.2	14.6	13.1	14.3	13.0	13.2
23	Willow Springs Road, Des Plaines River	14.4	13.6	16.1	14.8	16.2	10.0	14.2	13.8	14.1	13.3	12.7
29	Stephen Street, Des Plaines River	12.3	14.2	16.6	14.9	16.7	9.0	14.5	13.5	14.7	13.6	12.9
91	Material Service Road, Des Plaines River	12.5	16.2	15.1	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-37

pH MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Means										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	7.50	8.00	ND	ND	ND	7.94	8.01	7.86	7.37	7.45
106	Dundee Road, West Fork North Branch Chicago River	7.54	7.38	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	7.77	7.75	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	7.44	7.60	7.79	7.87	7.77	6.75	7.93	8.04	7.67	7.58	7.38
104	Glenview Road, North Branch Chicago River	7.73	7.63	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	7.43	7.61	7.95	7.96	7.82	6.67	7.94	8.10	7.55	7.36	7.50
105	Frontage Road, Skokie River	7.69	7.70	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	7.59	7.62	7.78	7.84	7.72	6.79	7.73	7.88	7.39	7.36	7.44
96	Albany Avenue, North Branch Chicago River	7.81	7.40	7.65	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	7.90	7.77	8.31	8.12	8.24	7.03	8.07	8.37	8.05	7.95	7.88
102	Oakton Street, North Shore Channel	7.36	7.37	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	7.38	7.19	7.63	7.56	7.50	6.95	7.59	7.64	7.47	7.51	7.62
101	Foster Avenue, North Shore Channel	7.28	7.14	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	7.44	7.29	7.57	7.58	7.68	6.99	7.71	7.38	7.03	7.21	7.49
73	Diversey Parkway, North Branch Chicago River	7.45	7.12	7.59	7.41	7.84	7.16	7.94	7.24	7.28	7.54	7.18
46	Grand Avenue, North Branch Chicago River	7.36	7.09	7.60	7.74	7.82	6.48	7.55	7.60	7.51	7.56	7.17
74	Lake Shore Drive, Chicago River	7.43	7.95	7.70	8.09	8.15	7.96	7.88	7.53	8.08	8.02	7.65
100	Wells Street, Chicago River	7.23	7.66	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	7.23	7.39	7.54	7.89	7.89	7.75	7.52	7.38	7.65	7.69	7.34
108	Loomis Street, South Branch Chicago River	7.25	7.02	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	7.13	7.03	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	7.45	7.72	8.06	7.48	7.68	7.27	7.85	7.60	7.53
107	Western Avenue, Chicago Sanitary & Ship Canal	7.10	7.06	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	7.16	7.23	7.27	7.85	8.02	7.90	7.82	7.24	7.61	7.21	7.18
41	Harlem Avenue, Chicago Sanitary & Ship Canal	7.17	7.19	7.42	7.67	7.97	7.44	7.38	7.10	7.45	7.38	7.34
42	Route 43, Chicago Sanitary & Ship Canal	7.22	7.13	7.32	7.71	7.98	7.54	7.51	7.33	7.53	7.44	7.33
48	Stephen Street, Chicago Sanitary & Ship Canal	7.26	7.23	7.48	7.62	7.97	7.58	7.49	7.48	7.54	7.54	7.29
82	Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	7.75	7.61	7.65	7.80	7.64	7.45	7.72	7.40	7.52
92	Lockport Forebay, Chicago Sanitary & Ship Canal	7.27	7.11	7.28	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	7.55	7.47	7.96	8.19	8.25	7.88	8.00	7.66	7.86	7.70	7.44
50	Burnham Avenue, Wolf Lake	7.91	7.76	8.06	8.29	8.34	7.93	8.31	8.12	7.72	7.65	7.83
55	130th Street, Calumet River	7.87	7.41	7.72	8.21	8.12	7.91	8.35	8.27	7.87	7.36	7.53
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	7.73	7.39	7.74	7.79	7.94	7.47	8.02	7.55	7.22	7.50	7.37
56	Indiana Avenue, Little Calumet River	7.63	7.79	7.73	8.10	8.03	7.75	8.32	8.16	7.37	7.19	7.16
76	Halsted Street, Little Calumet River	7.35	7.21	7.47	7.82	7.56	7.49	7.32	7.66	7.55	7.38	7.51
52	Wentworth Avenue, Little Calumet River	7.56	7.31	7.84	7.95	8.09	7.70	8.65	7.98	7.58	7.53	7.60
54	Joe Orr Road, Thorn Creek	7.37	7.12	7.51	8.10	7.53	7.07	7.51	7.65	7.34	7.44	7.68
97	170th Street, Thorn Creek	7.58	7.14	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	7.55	7.20	7.41	7.91	7.65	7.03	7.29	7.61	7.41	7.53	7.38
58	Ashland Avenue, Calumet Sag Channel	7.37	7.26	7.31	7.78	7.92	7.78	7.27	7.68	7.58	7.44	7.48
59	Cicero Avenue, Calumet Sag Channel	7.07	7.19	7.17	7.79	7.74	7.43	7.45	7.54	7.37	7.46	7.27
43	Route 43, Calumet Sag Channel	6.99	7.16	7.17	7.72	7.74	7.63	7.39	7.26	7.36	7.30	6.94
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	7.64	7.54	8.08	8.16	8.17	7.93	7.94	8.00	7.90	7.73	7.73
63	Longmeadow Lane, West Branch Du Page River	ND	7.43	7.95	7.90	8.13	7.66	7.94	7.95	7.81	7.46	7.63
89	Walnut Lane, West Branch Du Page River	7.46	7.42	8.13	7.89	7.90	7.67	7.92	7.85	7.76	7.54	7.53
64	Lake Street, West Branch Du Page River	7.66	7.50	8.30	7.71	8.06	7.88	8.06	7.87	7.82	7.63	7.62
79	Higgins Road, Salt Creek	7.74	7.50	8.16	8.24	8.23	8.09	7.73	8.11	7.65	7.85	7.59
80	Arlington Heights Road, Salt Creek	7.56	7.44	8.16	7.87	7.97	7.94	7.75	8.00	7.82	7.91	7.52
18	Devon Avenue, Salt Creek	7.26	7.58	8.03	7.85	7.87	7.82	7.73	7.89	7.35	7.56	7.52
24	Wolf Road, Salt Creek	7.45	7.63	7.78	8.05	7.91	6.77	7.73	8.18	7.92	6.63	7.93
109	Brookfield Avenue, Salt Creek	7.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	7.40	7.43	7.40	7.68	7.65	7.65	7.87	7.64	7.64	6.94	7.32
77	Elmhurst Road, Higgins Creek	7.35	7.65	7.81	8.02	7.75	6.87	7.84	8.07	7.62	7.08	7.79
78	Wille Road, Higgins Creek	7.14	7.72	7.60	7.77	7.75	6.66	7.81	8.13	7.77	6.96	7.68
12	Lake-Cook Road, Buffalo Creek	7.80	7.70	7.85	7.75	7.87	7.81	7.63	7.85	7.02	7.71	7.21
13	Lake-Cook Road, Des Plaines River	7.52	7.68	7.92	7.80	7.93	7.92	8.02	7.73	7.36	7.71	7.19
17	Oakton Street, Des Plaines River	7.34	7.69	7.75	7.89	7.78	7.92	8.00	8.18	8.09	6.96	7.68
19	Belmont Avenue, Des Plaines River	7.40	7.65	7.64	7.78	7.74	8.05	8.09	7.74	7.81	6.93	7.58
20	Roosevelt Road, Des Plaines River	7.32	7.59	7.68	7.77	7.70	7.78	7.93	7.92	7.62	7.03	7.53
22	Ogden Avenue, Des Plaines River	7.49	7.55	7.12	7.43	7.65	7.95	7.88	7.43	7.52	7.23	7.02
23	Willow Springs Road, Des Plaines River	7.60	7.66	7.83	8.13	7.87	6.47	7.95	8.26	8.07	6.63	7.79
29	Stephen Street, Des Plaines River	7.82	7.71	7.82	8.12	7.96	6.74	8.02	8.41	8.17	6.72	7.52
91	Material Service Road, Des Plaines River	7.85	7.40	7.65	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-38

ALKALINITY (TOTAL) MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	196	170	ND	ND	ND	152	148	106	278	174
106 Dundee Road, West Fork North Branch Chicago River	187	180	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	185	177	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	213	201	189	205	209	183	206	197	202	209	210
104 Glenview Road, North Branch Chicago River	183	189	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	210	210	200	191	231	200	237	199	200	222	220
105 Frontage Road, Skokie River	178	182	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	180	179	163	171	194	180	177	184	184	183	194
96 Albany Avenue, North Branch Chicago River	176	186	161	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	119	111	126	129	126	119	140	121	119	118	114
102 Oakton Street, North Shore Channel	130	119	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	149	151	137	142	152	144	151	171	159	154	150
101 Foeter Avenue, North Shore Channel	149	142	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	148	156	141	152	161	162	157	174	151	168	160
73 Diversy Parkway, North Branch Chicago River	144	155	138	150	161	149	156	165	157	158	155
46 Grand Avenue, North Branch Chicago River	147	157	143	151	167	149	160	178	158	155	155
74 Lake Shore Drive, Chicago River	120	125	123	117	120	115	114	122	122	114	114
100 Wells Street, Chicago River	130	132	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	141	147	137	144	148	131	136	140	133	140	136
108 Loomis Street, South Branch Chicago River	154	137	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	148	157	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	136	149	152	132	139	133	143	143	135
107 Western Avenue, Chicago Sanitary & Ship Canal	150	139	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	153	141	135	140	144	133	134	148	144	142	135
41 Harlem Avenue, Chicago Sanitary & Ship Canal	137	139	121	129	137	131	122	142	138	142	136
42 Route 83, Chicago Sanitary & Ship Canal	140	137	126	131	140	137	133	145	148	147	140
48 Stephen Street, Chicago Sanitary & Ship Canal	158	144	158	139	142	143	137	152	156	157	147
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	143	135	149	244	480	212	179	182	154
92 Lockport Forebay, Chicago Sanitary & Ship Canal	141	148	137	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	110	112	115	115	111	116	111	120	119	114	114
50 Burnham Avenue, Wolf Lake	96	96	101	98	102	106	102	109	156	104	111
55 130th Street, Calumet River	117	116	116	117	114	118	129	119	127	119	115
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	176	165	168	155	141	158	212	221	219	185	153
56 Indiana Avenue, Little Calumet River	138	126	127	129	129	130	133	146	149	151	138
76 Halsted Street, Little Calumet River	156	159	154	158	153	153	154	170	165	170	166
52 Wentworth Avenue, Little Calumet River	225	190	195	193	200	215	215	214	203	220	241
54 Joe Orr Road, Thorn Creek	183	195	172	175	203	216	223	238	202	215	204
97 170th Street, Thorn Creek	190	182	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	194	174	190	184	179	199	201	215	187	196	216
58 Ashland Avenue, Calumet Sag Channel	167	163	159	156	142	164	162	180	168	191	170
59 Cicero Avenue, Calumet Sag Channel	157	161	161	156	156	159	160	187	165	179	177
43 Route 83, Calumet Sag Channel	152	161	162	159	156	161	161	173	176	183	175
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	209	207	196	239	230	182	213	230	211	191	233
63 Longmeadow Lane, West Branch Du Page River	ND	195	156	192	184	160	137	192	163	177	189
89 Walnut Lane, West Branch Du Page River	158	165	155	163	154	140	138	157	153	178	172
64 Lake Street, West Branch Du Page River	157	162	146	153	152	141	133	156	145	163	179
79 Higgins Road, Salt Creek	166	182	161	158	171	142	159	180	161	166	184
80 Arlington Heights Road, Salt Creek	151	147	136	166	145	140	150	160	254	160	162
18 Devon Avenue, Salt Creek	147	145	132	139	144	145	144	160	144	154	161
24 Wolf Road, Salt Creek	154	159	144	153	178	139	155	173	155	156	175
109 Brookfield Avenue, Salt Creek	128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	185	161	150	150	161	140	148	178	162	150	181
77 Elmhurst Road, Higgins Creek	139	168	140	172	196	144	140	175	139	145	190
78 Wille Road, Higgins Creek	181	195	171	190	173	168	168	191	173	178	209
12 Lake-Cook Road, Buffalo Creek	222	210	174	188	206	189	191	219	195	214	217
13 Lake-Cook Road, Des Plaines River	214	210	191	253	207	184	196	221	197	198	209
17 Oakton Street, Des Plaines River	206	201	175	180	205	169	192	212	165	189	204
19 Belmont Avenue, Des Plaines River	192	203	172	177	199	176	188	211	192	195	208
20 Roosevelt Road, Des Plaines River	199	202	171	173	195	178	191	211	182	176	207
22 Ogden Avenue, Des Plaines River	181	190	160	164	183	167	179	200	168	165	198
23 Willow Springs Road, Des Plaines River	177	189	157	165	185	169	180	205	170	166	195
29 Stephen Street, Des Plaines River	181	188	165	166	184	176	180	192	175	187	191
91 Material Service Road, Des Plaines River	185	183	172	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-39

CHLORIDE MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
30 Lake-Cook Road, West Fork North Branch	ND	856	847	ND	ND	ND	198	182	116	247	152	
106 Dundee Road, West Fork North Branch Chicago River	293	371	ND	ND	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	244	227	ND	ND	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	185	203	217	177	180	211	198	199	164	133	136	
104 Glenview Road, North Branch Chicago River	171	177	ND	ND	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	190	218	242	185	183	250	215	172	167	165	163	
105 Frontage Road, Skokie River	162	167	ND	ND	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	205	249	269	199	182	263	260	184	228	163	168	
96 Albany Avenue, North Branch Chicago River	223	228	163	ND	ND	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	64	16	60	43	34	23	49	22	14	76	13	
102 Oakton Street, North Shore Channel	99	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	
36 Touhy Avenue, North Shore Channel	105	152	150	154	110	116	115	149	123	84	66	
101 Foster Avenue, North Shore Channel	111	121	ND	ND	ND	ND	ND	ND	ND	ND	ND	
37 Wilson Avenue, North Branch Chicago River	133	192	202	193	133	178	139	178	130	203	81	
73 Diversey Parkway, North Branch Chicago River	136	199	190	188	129	184	143	149	126	150	84	
46 Grand Avenue, North Branch Chicago River	133	191	148	153	150	133	161	167	121	110	92	
74 Lake Shore Drive, Chicago River	69	98	81	53	64	28	27	31	23	82	24	
100 Wells Street, Chicago River	88	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	102	179	126	113	108	78	86	88	69	88	60	
108 Loomis Street, South Branch Chicago River	122	96	ND	ND	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	127	117	ND	ND	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	134	107	136	98	122	84	99	94	83	
107 Western Avenue, Chicago Sanitary & Ship Canal	122	138	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	130	148	124	106	149	105	114	114	98	120	58	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	124	170	166	155	143	137	130	136	116	107	75	
42 Route #3, Chicago Sanitary & Ship Canal	144	203	139	171	147	157	145	138	137	107	84	
48 Stephen Street, Chicago Sanitary & Ship Canal	156	202	126	139	149	155	158	132	137	130	98	
82 Lockport Trehlar, Chicago Sanitary & Ship Canal	ND	ND	225	151	134	153	124	155	152	153	122	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	151	187	179	ND	ND	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	40	59	51	42	31	23	24	27	27	35	62	
50 Burnham Avenue, Wolf Lake	43	45	32	30	30	35	31	34	40	38	34	
55 130th Street, Calumet River	68	93	74	67	53	57	57	58	55	74	66	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	200	180	177	198	192	190	267	259	222	178	203	
56 Indiana Avenue, Little Calumet River	109	95	103	95	99	100	86	92	94	117	105	
76 Halsted Street, Little Calumet River	127	152	150	139	122	136	163	132	127	138	105	
52 Wentworth Avenue, Little Calumet River	189	137	155	143	109	136	119	128	151	136	163	
54 Joe Orr Road, Thorn Creek	191	187	162	156	152	171	187	168	175	154	156	
97 170th Street, Thorn Creek	194	163	ND	ND	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	173	168	190	171	139	185	151	164	132	131	150	
58 Ashland Avenue, Calumet Sag Channel	147	167	164	131	101	191	135	131	129	155	109	
59 Cicero Avenue, Calumet Sag Channel	145	167	168	136	136	166	139	132	129	145	114	
43 Route #3, Calumet Sag Channel	144	179	168	130	135	143	145	126	153	166	117	
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	220	229	143	157	199	197	209	175	156	139	147	
63 Longmeadow Lane, West Branch Du Page River	ND	283	189	257	220	321	388	315	217	586	249	
89 Walnut Lane, West Branch Du Page River	169	171	153	127	131	142	199	167	157	188	154	
64 Lake Street, West Branch Du Page River	190	198	160	133	152	166	198	191	160	211	162	
79 Higgins Road, Salt Creek	260	327	278	218	201	290	323	288	289	244	236	
80 Arlington Heights Road, Salt Creek	213	234	219	177	178	235	256	195	212	198	197	
18 Devon Avenue, Salt Creek	204	247	223	178	188	271	250	200	192	216	201	
24 Wolf Road, Salt Creek	254	268	220	186	267	231	263	239	210	221	228	
109 Brookfield Avenue, Salt Creek	135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	654	260	213	184	216	214	253	241	204	221	244	
77 Elmhurst Road, Higgins Creek	460	479	336	294	364	348	378	354	515	355	363	
78 Willie Road, Higgins Creek	259	221	191	168	193	234	215	190	163	153	172	
12 Lake-Cook Road, Buffalo Creek	189	302	194	153	174	207	240	197	206	223	205	
13 Lake-Cook Road, Des Plaines River	188	158	152	184	151	154	171	145	148	105	124	
17 Oakton Street, Des Plaines River	224	182	141	137	151	167	194	155	147	128	134	
19 Belmont Avenue, Des Plaines River	236	188	153	146	160	187	203	182	207	161	166	
20 Roosevelt Road, Des Plaines River	265	190	157	146	160	193	200	180	184	159	243	
22 Ogden Avenue, Des Plaines River	269	205	170	153	172	214	206	197	162	157	202	
23 Willow Springs Road, Des Plaines River	226	204	177	160	178	191	201	178	166	149	182	
29 Stephen Street, Des Plaines River	267	199	175	157	183	232	222	193	166	155	166	
91 Material Service Road, Des Plaines River	251	198	202	ND	ND	ND	ND	ND	ND	ND	ND	

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-40

TURBIDITY MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (NTU)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	25.5	81.0	ND	ND	ND	47.0	27.8	24.5	31.0	32.8
106 Dundee Road, West Fork North Branch Chicago River	19.2	24.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	20.7	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	16.6	22.3	16.8	19.7	14.6	18.3	24.6	24.7	19.4	35.7	22.5
104 Glenview Road, North Branch Chicago River	15.3	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	13.4	15.6	13.0	17.6	13.4	12.2	18.5	22.7	14.3	26.6	21.5
105 Frontage Road, Skokie River	12.5	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	18.0	18.1	18.5	20.2	21.2	20.2	18.3	23.3	17.3	25.8	28.3
96 Albany Avenue, North Branch Chicago River	14.5	13.3	11.0	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	10.6	10.3	11.8	9.1	8.7	10.3	10.8	12.6	9.5	13.0	13.0
102 Oakton Street, North Shore Channel	14.1	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	8.1	6.7	8.1	7.5	6.8	7.0	8.4	9.1	8.7	5.8	9.3
101 Foster Avenue, North Shore Channel	9.5	8.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	11.3	11.4	9.7	10.1	8.7	9.5	10.2	10.3	10.2	8.1	9.2
73 Diversey Parkway, North Branch Chicago River	12.4	11.8	10.1	11.7	11.3	9.1	13.8	12.0	9.3	10.8	9.1
46 Grand Avenue, North Branch Chicago River	13.2	12.0	12.6	12.7	10.8	9.9	12.7	11.9	10.2	10.9	10.3
74 Lake Shore Drive, Chicago River	6.0	5.9	8.3	7.0	6.8	8.5	8.7	8.8	8.6	12.1	7.3
100 Wells Street, Chicago River	6.8	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	11.6	12.5	10.5	11.2	10.3	10.5	10.1	12.6	11.0	10.3	8.2
108 Loomis Street, South Branch Chicago River	10.0	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	10.4	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	12.7	11.2	10.6	11.2	11.4	18.1	9.8	10.3	11.5
107 Western Avenue, Chicago Sanitary & Ship Canal	11.0	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	10.6	13.6	12.8	13.8	10.8	11.8	11.1	11.8	11.0	10.1	11.2
41 Harlem Avenue, Chicago Sanitary & Ship Canal	8.3	8.5	9.3	9.7	7.2	3.9	8.8	9.5	12.2	7.3	6.9
42 Route 83, Chicago Sanitary & Ship Canal	8.6	8.0	8.2	7.8	9.5	8.3	7.7	10.2	10.1	6.3	7.4
48 Stephen Street, Chicago Sanitary & Ship Canal	9.9	10.4	11.1	9.4	11.7	11.9	13.2	16.8	11.8	10.3	15.7
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	10.0	11.4	11.5	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	7.5	9.8	10.6	9.8	9.8	9.5	10.5	10.5	9.1	7.3	8.0
50 Burnham Avenue, Wolf Lake	5.2	6.6	6.4	5.8	7.4	6.8	6.7	7.0	12.1	6.8	6.1
55 130th Street, Calumet River	9.4	10.8	13.5	8.0	9.4	10.7	9.7	10.5	12.1	7.4	5.7
51 IKB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	9.3	10.0	12.5	11.1	8.4	10.5	35.5	18.5	14.6	16.1	7.8
56 Indiana Avenue, Little Calumet River	18.9	17.9	15.8	14.7	13.0	17.5	27.1	25.0	27.5	24.9	19.5
76 Halsted Street, Little Calumet River	10.3	11.1	10.3	8.8	11.2	15.2	16.0	14.8	18.8	14.0	11.2
52 Wentworth Avenue, Little Calumet River	22.6	24.7	33.0	30.1	30.6	43.8	41.9	18.1	50.1	46.6	28.9
54 Joe Orr Road, Thorn Creek	8.0	10.3	22.0	10.4	14.8	14.5	12.8	9.5	16.0	36.5	6.2
97 170th Street, Thorn Creek	14.9	27.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	16.6	26.2	21.3	22.5	37.8	34.3	24.1	19.2	27.7	37.5	19.7
58 Ashland Avenue, Calumet Sag Channel	12.0	14.8	13.3	13.8	12.9	26.2	20.6	18.3	19.4	23.8	13.5
59 Cicero Avenue, Calumet Sag Channel	14.6	15.2	13.3	14.8	16.4	21.1	25.8	22.8	22.0	22.7	16.6
43 Route 83, Calumet Sag Channel	16.2	22.0	18.5	15.4	17.1	26.4	29.8	21.3	23.9	31.9	19.6
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	11.9	13.2	18.6	16.2	11.8	40.0	105.5	20.2	17.4	16.1	16.4
63 Longmeadow Lane, West Branch Du Page River	ND	20.3	21.8	17.7	14.6	21.3	39.5	43.9	17.9	25.0	16.1
89 Walnut Lane, West Branch Du Page River	7.5	9.0	13.5	12.4	7.0	11.4	26.8	29.8	12.7	16.5	13.8
64 Lake Street, West Branch Du Page River	18.6	21.3	27.6	22.0	19.7	25.8	38.5	30.2	24.4	27.4	20.3
79 Higgins Road, Salt Creek	24.6	22.5	29.4	23.7	21.1	33.5	61.8	25.2	22.0	32.8	16.5
80 Arlington Heights Road, Salt Creek	6.9	9.8	10.8	11.2	7.0	12.3	8.8	9.7	11.1	9.9	7.7
18 Devon Avenue, Salt Creek	9.2	11.8	15.6	15.7	9.7	18.2	14.5	11.1	14.4	11.9	9.0
24 Wolf Road, Salt Creek	13.8	17.2	22.6	20.7	13.7	31.5	25.9	27.2	28.6	24.3	37.5
109 Brookfield Avenue, Salt Creek	13.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	12.9	18.1	23.0	22.0	14.9	29.8	24.5	18.8	28.3	29.2	22.1
77 Elmhurst Road, Higgins Creek	22.2	18.8	27.7	22.1	17.3	23.5	77.4	80.8	69.6	37.6	31.7
78 Wille Road, Higgins Creek	6.9	7.3	7.2	5.4	7.9	7.8	17.5	22.4	18.6	7.8	3.7
12 Lake-Cook Road, Buffalo Creek	23.5	17.7	45.9	25.8	18.9	28.3	36.8	21.8	11.6	27.3	20.1
11 Lake-Cook Road, Des Plaines River	15.8	16.9	23.9	22.0	18.6	30.1	22.1	18.8	20.3	25.7	20.0
17 Oakton Street, Des Plaines River	15.6	18.4	27.5	24.5	23.6	39.9	24.2	25.9	33.3	26.5	22.2
19 Belmont Avenue, Des Plaines River	17.1	16.7	20.4	19.3	16.7	34.8	25.5	25.8	29.5	27.2	22.3
20 Roosevelt Road, Des Plaines River	16.1	16.9	22.3	19.8	17.3	32.2	23.3	22.8	24.7	32.8	21.8
22 Ogden Avenue, Des Plaines River	15.0	17.3	23.6	19.7	17.6	33.7	23.5	20.6	32.9	35.0	23.4
23 Willow Springs Road, Des Plaines River	15.8	22.9	26.0	22.5	23.7	30.6	29.4	26.2	34.1	29.6	27.3
29 Stephen Street, Des Plaines River	15.9	26.0	26.5	24.4	24.3	30.1	31.8	25.3	36.3	32.9	29.8
91 Material Service Road, Des Plaines River	16.9	24.7	24.5	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-41

ELECTRICAL CONDUCTIVITY MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (µmhos)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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 Trestle, Chicago Sanitary & Ship Canal	ND	ND	1235	935	930	1109	1172	1034	982	993	821
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
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
51 IHB Rail Road Bridge, Grand 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
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page 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 Willie Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-42

TOTAL KJELDAHL NITROGEN MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Means (mg/L)										
		No. Name	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	1.32	2.18	ND	ND	ND	1.94	1.61	1.34	2.58	1.92
106	Dundee Road, West Fork North Branch Chicago River	1.52	2.16	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	2.01	1.50	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	1.26	1.34	1.67	1.13	0.98	1.22	1.05	1.10	1.29	1.02	1.33
104	Glenview Road, North Branch Chicago River	1.21	1.43	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	1.18	1.17	1.09	1.02	0.80	1.16	1.10	1.11	1.14	0.99	1.17
105	Frontage Road, Skokie River	1.26	1.36	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1.58	1.71	1.45	1.21	1.03	1.47	1.43	1.16	1.45	1.32	1.47
96	Albany Avenue, North Branch Chicago River	1.40	1.96	1.60	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	1.02	0.63	1.05	1.27	0.76	0.38	2.25	0.52	0.38	0.79	0.38
102	Oakton Street, North Shore Channel	1.81	1.10	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	2.60	2.66	2.65	2.48	2.08	2.83	4.17	2.87	3.28	2.29	2.84
101	Foster Avenue, North Shore Channel	2.98	2.70	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	2.60	2.66	3.10	3.34	2.20	2.93	4.17	3.03	3.36	3.07	3.19
73	Diversey Parkway, North Branch Chicago River	2.33	2.43	2.52	2.20	1.58	2.44	3.37	2.04	2.35	2.32	2.93
46	Grand Avenue, North Branch Chicago River	2.51	2.34	2.40	2.18	1.94	2.27	3.06	2.93	2.83	2.43	2.64
74	Lake Shore Drive, Chicago River	0.67	1.01	1.10	0.63	0.43	0.50	0.43	0.34	0.36	0.42	0.36
100	Wells Street, Chicago River	1.10	1.08	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	2.46	1.94	2.36	1.75	1.67	1.36	1.72	1.27	1.38	1.56	1.30
108	Loomis Street, South Branch Chicago River	2.03	1.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	2.62	1.35	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	2.31	1.80	1.31	1.85	2.03	1.44	2.01	1.62	1.75
107	Western Avenue, Chicago Sanitary & Ship Canal	2.20	2.02	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	2.15	1.92	1.99	1.64	1.48	1.51	2.31	2.07	2.00	1.72	1.83
41	Hazlem Avenue, Chicago Sanitary & Ship Canal	1.68	1.91	1.72	1.43	1.50	2.05	2.86	2.44	2.14	1.86	1.81
42	Route 83, Chicago Sanitary & Ship Canal	1.97	1.94	1.65	1.70	1.86	2.48	2.80	2.40	2.80	1.98	2.26
48	Stephen Street, Chicago Sanitary & Ship Canal	1.91	1.87	1.93	1.71	1.49	2.05	2.49	2.75	3.07	2.12	2.63
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	1.96	1.77	1.71	1.90	2.26	2.30	2.32	2.55	2.40
92	Lockport Forebay, Chicago Sanitary & Ship Canal	1.66	1.86	1.83	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.35	0.41	0.51	0.59	0.48	0.37	0.76	0.43	0.52	0.37	0.41
50	Burnham Avenue, Wolf Lake	0.49	0.62	0.73	0.47	0.55	0.72	0.68	0.61	0.69	0.64	0.79
55	130th Street, Calumet River	0.71	0.85	0.66	0.69	0.49	0.51	0.67	0.62	0.67	0.82	0.77
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	2.89	2.98	4.32	3.34	2.10	1.98	6.36	6.16	8.14	3.77	5.67
56	Indiana Avenue, Little Calumet River	1.02	1.05	1.01	1.10	1.00	1.20	1.74	1.78	2.99	2.59	2.87
76	Halsted Street, Little Calumet River	1.39	1.58	1.50	1.38	1.27	1.66	2.66	3.11	4.06	3.55	4.79
52	Wentworth Avenue, Little Calumet River	1.58	1.73	2.03	2.39	2.65	1.53	1.76	1.27	1.80	1.49	1.75
54	Joe Orr Road, Thorn Creek	1.47	1.53	1.92	1.43	1.23	1.38	2.02	1.60	2.77	2.33	1.49
97	170th Street, Thorn Creek	1.46	1.58	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.42	1.60	1.46	1.44	1.42	1.40	1.42	1.74	2.15	1.79	1.38
58	Ashland Avenue, Calumet Sag Channel	1.35	1.55	1.50	1.37	1.11	1.62	1.83	2.78	3.08	2.42	4.56
59	Cicero Avenue, Calumet Sag Channel	1.49	1.67	2.22	1.46	1.37	1.83	2.27	3.74	3.89	3.50	4.77
43	Route 83, Calumet Sag Channel	1.50	1.94	1.45	1.42	1.25	1.92	2.49	3.18	3.86	3.27	3.74
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.87	1.03	1.31	1.78	0.74	1.22	1.14	1.10	1.09	1.16	0.93
63	Longmeadow Lane, West Branch Du Page River	ND	1.88	1.66	1.81	1.66	1.82	2.19	1.92	1.78	1.35	1.67
89	Walnut Lane, West Branch Du Page River	1.83	2.30	2.37	2.64	2.34	2.12	2.12	1.97	2.00	2.25	2.07
64	Lake Street, West Branch Du Page River	2.05	2.53	2.70	2.25	2.52	2.42	2.24	2.10	2.10	2.25	2.69
79	Higgins Road, Salt Creek	1.60	1.49	1.82	1.17	1.31	1.36	1.27	1.52	1.38	1.32	1.00
80	Arlington Heights Road, Salt Creek	1.83	1.64	1.74	1.46	1.45	1.58	1.55	1.66	1.49	1.13	1.43
18	Devon Avenue, Salt Creek	1.87	1.74	1.73	1.47	1.33	1.51	1.86	1.91	1.60	1.17	1.38
24	Wolf Road, Salt Creek	1.44	1.52	1.61	1.23	1.12	1.56	1.84	1.67	1.69	1.37	1.37
109	Brookfield Avenue, Salt Creek	1.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	1.56	1.39	1.62	1.42	1.05	1.50	1.47	1.43	1.58	1.46	1.27
77	Elmhurst Road, Higgins Creek	1.31	1.34	1.41	1.29	0.82	0.92	1.23	1.21	1.49	1.00	1.04
78	Wille Road, Higgins Creek	1.65	1.85	2.35	1.74	1.37	2.10	1.44	1.66	1.75	1.56	1.54
12	Lake-Cook Road, Buffalo Creek	1.52	1.22	1.49	1.12	0.98	1.23	1.29	1.10	1.40	1.64	1.24
13	Lake-Cook Road, Des Plaines River	1.78	1.48	1.82	1.22	1.26	1.33	1.12	1.25	1.72	1.47	1.35
17	Oakton Street, Des Plaines River	1.52	1.55	1.58	1.18	1.24	1.36	1.49	1.66	1.26	1.28	1.40
19	Belmont Avenue, Des Plaines River	1.42	1.66	2.27	1.13	1.26	1.54	1.58	1.72	1.96	1.36	1.48
20	Roosevelt Road, Des Plaines River	1.35	1.56	1.57	1.14	1.29	1.58	1.58	1.51	1.70	1.32	1.50
22	Ogden Avenue, Des Plaines River	1.36	1.60	1.49	1.11	1.48	1.75	1.52	1.49	1.68	1.49	1.33
23	Willow Springs Road, Des Plaines River	1.57	1.69	1.67	1.08	1.39	1.39	1.57	1.48	1.76	1.35	1.43
29	Stephen Street, Des Plaines River	1.50	1.87	1.35	1.15	1.52	1.67	1.62	1.85	1.95	1.43	1.52
91	Material Service Road, Des Plaines River	1.49	1.63	1.63	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-43

AMMONIUM NITROGEN MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.300	0.470	ND	ND	ND	0.238	0.209	0.165	1.358	0.375
106 Dundee Road, West Fork North Branch Chicago River	0.145	0.445	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.797	0.277	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.124	0.139	0.169	0.038	0.048	0.109	0.074	0.134	0.165	0.109	0.228
104 Glenview Road, North Branch Chicago River	0.086	0.103	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.110	0.190	0.187	0.077	0.083	0.091	0.184	0.189	0.129	0.150	0.209
105 Frontage Road, Skokie River	0.058	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.361	0.336	0.158	0.039	0.064	0.099	0.224	0.125	0.201	0.275	0.220
96 Albany Avenue, North Branch Chicago River	0.241	0.477	0.413	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.313	0.183	0.301	0.348	0.413	0.020	1.197	0.127	0.073	0.375	0.050
102 Oakton Street, North Shore Channel	0.696	0.376	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.987	1.063	1.273	0.921	0.911	1.470	2.474	1.576	1.660	1.199	1.603
101 Foster Avenue, North Shore Channel	1.428	1.185	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.153	1.083	1.653	1.772	1.158	1.701	2.609	1.663	2.038	2.156	1.970
73 Diversey Parkway, North Branch Chicago River	0.959	0.863	1.227	0.883	0.583	1.368	1.923	1.016	1.078	1.287	1.579
46 Grand Avenue, North Branch Chicago River	1.171	0.968	1.201	0.954	0.992	1.272	1.799	1.706	1.626	1.578	1.523
74 Lake Shore Drive, Chicago River	0.238	0.413	0.372	0.215	0.137	0.067	0.153	0.109	0.068	0.114	0.099
100 Wells Street, Chicago River	0.500	0.462	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	1.142	0.879	0.906	0.822	0.538	0.607	0.837	0.642	0.753	0.994	0.707
108 Loomis Street, South Branch Chicago River	0.988	0.587	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.123	1.715	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	1.116	0.847	0.524	0.920	1.090	0.585	1.183	0.984	1.041
107 Western Avenue, Chicago Sanitary & Ship Canal	0.968	0.878	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.869	0.769	0.843	0.793	0.403	0.721	1.256	1.036	1.122	0.983	1.100
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.534	0.754	0.438	0.357	0.495	0.716	1.318	1.217	0.925	0.893	0.706
42 Route 83, Chicago Sanitary & Ship Canal	0.655	0.756	0.630	0.604	0.636	1.184	1.416	1.193	1.440	1.183	1.152
48 Stephon Street, Chicago Sanitary & Ship Canal	0.718	0.721	0.692	0.601	0.486	0.858	1.281	1.352	1.606	1.161	1.495
82 Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	0.619	0.449	0.343	0.444	0.614	0.809	0.733	1.031	1.112
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.502	0.654	0.595	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.063	0.108	0.113	0.056	0.044	0.010	0.051	0.077	0.080	0.082	0.076
50 Burnham Avenue, Wolf Lake	0.018	0.087	0.092	0.056	0.018	0.003	0.045	0.045	0.072	0.051	0.099
55 130th Street, Calumet River	0.098	0.214	0.195	0.124	0.114	0.083	0.162	0.135	0.184	0.323	0.315
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.952	0.934	1.586	1.059	0.417	0.632	3.459	3.950	4.840	1.738	2.745
56 Indiana Avenue, Little Calumet River	0.115	0.127	0.307	0.276	0.307	0.396	0.755	0.919	1.889	1.507	1.677
76 Halsted Street, Little Calumet River	0.188	0.355	0.332	0.332	0.348	0.488	2.410	1.912	2.503	2.339	3.423
52 Wentworth Avenue, Little Calumet River	0.230	0.274	0.278	0.297	0.161	0.181	0.201	0.197	0.287	0.368	0.438
54 Joe Orr Road, Thorn Creek	0.116	0.110	0.380	0.057	0.034	0.124	0.734	0.324	1.084	1.017	0.209
97 170th Street, Thorn Creek	0.253	0.275	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.182	0.248	0.295	0.232	0.183	0.204	0.212	0.629	0.798	0.756	0.343
58 Ashland Avenue, Calumet Sag Channel	0.186	0.415	0.374	0.346	0.291	0.484	0.962	1.601	1.662	1.363	2.955
55 Cicero Avenue, Calumet Sag Channel	0.252	0.448	0.490	0.406	0.336	0.526	1.011	2.458	2.418	2.353	3.233
43 Route 83, Calumet Sag Channel	0.317	0.513	0.336	0.375	0.309	0.659	0.892	2.032	2.311	2.033	2.474
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.034	0.105	0.106	0.067	0.075	0.074	0.073	0.047	0.079	0.054	0.061
63 Longmeadow Lane, West Branch Du Page River	ND	0.305	0.154	0.131	0.135	0.225	0.368	0.196	0.160	0.151	0.365
89 Walnut Lane, West Branch Du Page River	0.117	0.294	0.341	0.367	0.192	0.191	0.258	0.145	0.104	0.653	0.377
64 Lake Street, West Branch Du Page River	0.287	0.460	0.645	0.421	0.601	0.415	0.387	0.228	0.232	0.643	0.996
79 Higgins Road, Salt Creek	0.090	0.106	0.172	0.067	0.118	0.076	0.156	0.226	0.075	0.107	0.074
80 Arlington Heights Road, Salt Creek	0.299	0.192	0.145	0.090	0.178	0.137	0.285	0.246	0.195	0.106	0.348
18 Devon Avenue, Salt Creek	0.360	0.228	0.161	0.093	0.243	0.132	0.358	0.205	0.199	0.113	0.203
24 Wolf Road, Salt Creek	0.218	0.171	0.196	0.127	0.155	0.131	0.208	0.160	0.153	0.106	0.153
109 Brookfield Avenue, Salt Creek	0.178	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.347	0.160	0.192	0.105	0.134	0.121	0.207	0.120	0.145	0.196	0.145
77 Elmhurst Road, Higgins Creek	0.107	0.187	0.134	0.116	0.158	0.107	0.186	0.192	0.238	0.147	0.200
78 Wille Road, Higgins Creek	0.211	0.250	0.396	0.245	0.297	0.515	0.151	0.259	0.355	0.370	0.311
12 Lake-Cook Road, Buffalo Creek	0.117	0.108	0.134	0.071	0.088	0.056	0.092	0.067	0.097	0.087	0.120
13 Lake-Cook Road, Des Plaines River	0.091	0.104	0.143	0.108	0.177	0.083	0.127	0.436	0.198	0.236	0.175
17 Oakton Street, Des Plaines River	0.071	0.093	0.107	0.075	0.100	0.075	0.108	0.103	0.210	0.150	0.125
19 Belmont Avenue, Des Plaines River	0.118	0.157	0.177	0.116	0.223	0.171	0.184	0.276	0.360	0.199	0.177
20 Roosevelt Road, Des Plaines River	0.097	0.140	0.145	0.093	0.183	0.205	0.136	0.135	0.219	0.208	0.209
22 Ogden Avenue, Des Plaines River	0.107	0.127	0.150	0.089	0.128	0.190	0.142	0.092	0.158	0.240	0.152
23 Willow Springs Road, Des Plaines River	0.072	0.134	0.160	0.089	0.175	0.080	0.101	0.090	0.168	0.196	0.127
29 Stephon Street, Des Plaines River	0.100	0.121	0.146	0.077	0.151	0.128	0.150	0.330	0.182	0.172	0.141
91 Material Service Road, Des Plaines River	0.057	0.115	0.140	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-44

UN-IONIZED AMMONIA MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.001	0.004	ND	ND	ND	0.007	0.009	0.020	0.007	0.007
106	Dundee Road, West Fork North Branch Chicago River	0.001	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.008	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.002	0.006	0.001	0.002	0.002	0.003	0.005	0.002	0.003	0.004
104	Glenview Road, North Branch Chicago River	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.003	0.007	0.002	0.001	0.002	0.016	0.014	0.003	0.002	0.004
105	Frontage Road, Skokie River	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.003	0.003	0.005	0.001	0.001	0.003	0.003	0.003	0.001	0.003	0.003
96	Albany Avenue, North Branch Chicago River	0.004	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.008	0.004	0.020	0.008	0.030	0.002	0.022	0.009	0.011	0.004	0.003
102	Oakton Street, North Shore Channel	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.013	0.007	0.051	0.021	0.035	0.027	0.035	0.017	0.029	0.017	0.034
101	Foster Avenue, North Shore Channel	0.011	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.010	0.011	0.058	0.033	0.052	0.050	0.045	0.015	0.030	0.012	0.041
73	Diversey Parkway, North Branch Chicago River	0.007	0.003	0.037	0.015	0.082	0.053	0.095	0.012	0.009	0.035	0.032
46	Grand Avenue, North Branch Chicago River	0.011	0.004	0.017	0.023	0.049	0.009	0.017	0.017	0.029	0.017	0.009
74	Lake Shore Drive, Chicago River	0.002	0.008	0.005	0.005	0.007	0.003	0.002	0.001	0.004	0.003	0.001
100	Wells Street, Chicago River	0.003	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.007	0.008	0.011	0.051	0.023	0.007	0.010	0.007	0.006	0.017	0.005
108	Loomis Street, South Branch Chicago River	0.014	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.010	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.012	0.026	0.081	0.013	0.015	0.006	0.035	0.009	0.011
107	Western Avenue, Chicago Sanitary & Ship Canal	0.009	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.019	0.005	0.007	0.031	0.051	0.051	0.022	0.005	0.029	0.007	0.025
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.005	0.006	0.006	0.021	0.010	0.016	0.004	0.010	0.009	0.009
42	Route 83, Chicago Sanitary & Ship Canal	0.004	0.004	0.006	0.019	0.031	0.016	0.016	0.008	0.021	0.013	0.039
48	Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.004	0.008	0.015	0.020	0.009	0.017	0.028	0.060	0.033	0.059
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	0.004	0.008	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.002	0.005	0.003	0.003	0.000	0.006	0.001	0.001	0.001	0.001
50	Burnham Avenue, Wolf Lake	0.001	0.003	0.005	0.003	0.001	0.000	0.004	0.001	0.001	0.000	0.002
55	130th Street, Calumet River	0.004	0.002	0.004	0.005	0.005	0.001	0.032	0.009	0.005	0.002	0.004
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.024	0.009	0.048	0.028	0.009	0.003	0.120	0.028	0.031	0.019	0.018
56	Indiana Avenue, Little Calumet River	0.002	0.004	0.024	0.012	0.014	0.006	0.062	0.033	0.012	0.008	0.006
76	Halsted Street, Little Calumet River	0.002	0.002	0.005	0.009	0.007	0.017	0.011	0.032	0.025	0.025	0.045
52	Wentworth Avenue, Little Calumet River	0.003	0.003	0.011	0.007	0.010	0.003	0.052	0.010	0.005	0.006	0.007
54	Joe Orr Road, Thorn Creek	0.001	0.001	0.006	0.005	0.001	0.010	0.006	0.006	0.032	0.047	0.003
97	170th Street, Thorn Creek	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.002	0.002	0.003	0.012	0.007	0.020	0.003	0.007	0.004	0.006	0.003
58	Ashland Avenue, Calumet Sag Channel	0.002	0.003	0.004	0.012	0.021	0.020	0.006	0.024	0.055	0.023	0.051
59	Cicero Avenue, Calumet Sag Channel	0.001	0.006	0.003	0.015	0.012	0.022	0.022	0.030	0.024	0.030	0.025
43	Route 83, Calumet Sag Channel	0.001	0.009	0.003	0.030	0.023	0.043	0.009	0.017	0.019	0.013	0.007
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.001	0.007	0.004	0.003	0.002	0.002	0.001	0.001	0.002	0.002
63	Longmeadow Lane, West Branch Du Page River	ND	0.002	0.011	0.003	0.014	0.003	0.036	0.007	0.003	0.008	0.004
89	Walnut Lane, West Branch Du Page River	0.001	0.004	0.038	0.018	0.006	0.002	0.015	0.004	0.002	0.003	0.004
64	Lake Street, West Branch Du Page River	0.006	0.006	0.148	0.018	0.025	0.008	0.020	0.005	0.006	0.007	0.015
79	Higgins Road, Salt Creek	0.004	0.001	0.024	0.007	0.011	0.002	0.005	0.046	0.003	0.005	0.002
80	Arlington Heights Road, Salt Creek	0.002	0.002	0.024	0.003	0.008	0.010	0.005	0.014	0.006	0.002	0.003
18	Devon Avenue, Salt Creek	0.002	0.011	0.029	0.003	0.011	0.003	0.004	0.007	0.002	0.002	0.012
24	Wolf Road, Salt Creek	0.003	0.003	0.004	0.012	0.003	0.003	0.008	0.005	0.015	0.002	0.018
109	Brookfield Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.001	0.002	0.002	0.013	0.003	0.002	0.006	0.001	0.003	0.002	0.001
77	Elmhurst Road, Higgins Creek	0.001	0.004	0.004	0.016	0.005	0.003	0.006	0.012	0.007	0.003	0.004
78	Wille Road, Higgins Creek	0.001	0.005	0.006	0.022	0.007	0.059	0.006	0.014	0.011	0.007	0.005
12	Lake-Cook Road, Buffalo Creek	0.005	0.002	0.012	0.004	0.007	0.001	0.003	0.004	0.001	0.006	0.001
13	Lake-Cook Road, Des Plaines River	0.002	0.002	0.014	0.007	0.011	0.002	0.012	0.009	0.009	0.014	0.001
17	Oakton Street, Des Plaines River	0.001	0.002	0.002	0.016	0.002	0.002	0.005	0.008	0.013	0.002	0.003
19	Belmont Avenue, Des Plaines River	0.001	0.003	0.002	0.017	0.005	0.005	0.007	0.007	0.009	0.001	0.004
20	Roosevelt Road, Des Plaines River	0.001	0.002	0.004	0.014	0.003	0.002	0.005	0.004	0.006	0.001	0.003
22	Ogden Avenue, Des Plaines River	0.001	0.002	0.001	0.011	0.003	0.027	0.004	0.001	0.008	0.004	0.001
23	Willow Springs Road, Des Plaines River	0.001	0.002	0.004	0.010	0.004	0.003	0.007	0.006	0.014	0.004	0.007
29	Stephen Street, Des Plaines River	0.002	0.002	0.005	0.010	0.005	0.004	0.011	0.022	0.016	0.003	0.006
91	Material Service Road, Des Plaines River	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-45

ORGANIC NITROGEN MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
30 Lake-Cook Road, West Fork North Branch	ND	1.02	1.71	ND	ND	ND	1.70	1.40	1.17	1.22	1.54	
106 Dundee Road, West Fork North Branch Chicago River	1.38	1.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	1.21	1.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	1.14	1.20	1.50	1.09	0.93	1.11	0.98	0.97	1.12	0.91	1.10	
104 Glenview Road, North Branch Chicago River	1.12	1.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	1.07	0.98	0.91	0.95	0.72	1.07	0.92	0.92	1.01	0.84	0.96	
105 Frontage Road, Skokie River	1.20	1.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	1.22	1.38	1.29	1.17	0.97	1.37	1.20	1.04	1.23	1.05	1.25	
96 Albany Avenue, North Branch Chicago River	1.15	1.48	1.19	ND	ND	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0.71	0.44	0.75	0.92	0.42	0.36	1.06	0.39	0.31	0.41	0.33	
102 Oakton Street, North Shore Channel	1.11	0.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	
36 Touhy Avenue, North Shore Channel	1.61	1.60	1.37	1.56	1.17	1.36	1.70	1.29	1.62	1.09	1.24	
101 Foster Avenue, North Shore Channel	1.55	1.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	
37 Wilson Avenue, North Branch Chicago River	1.45	1.57	1.45	1.56	1.04	1.23	1.56	1.37	1.35	0.92	1.22	
73 Diversby Parkway, North Branch Chicago River	1.37	1.57	1.30	1.31	1.00	1.07	1.45	1.02	1.27	1.04	1.35	
46 Grand Avenue, North Branch Chicago River	1.34	1.37	1.20	1.23	0.95	0.99	1.26	1.23	1.21	0.85	1.12	
74 Lake Shore Drive, Chicago River	0.43	0.59	0.73	0.41	0.31	0.44	0.28	0.23	0.28	0.30	0.26	
100 Wells Street, Chicago River	0.60	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	1.32	1.06	1.46	0.93	1.13	0.76	0.88	0.63	0.59	0.57	0.60	
108 Loomis Street, South Branch Chicago River	1.04	1.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	1.50	1.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	1.20	0.95	0.79	0.93	0.94	0.85	0.63	0.64	0.71	
107 Western Avenue, Chicago Sanitary & Ship Canal	1.23	1.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.28	1.15	1.14	0.85	1.07	0.87	1.05	1.04	0.88	0.74	0.73	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.15	1.16	1.28	1.07	1.01	1.33	1.54	1.22	1.23	0.97	1.10	
42 Route 83, Chicago Sanitary & Ship Canal	1.31	1.18	1.02	1.09	1.22	1.30	1.38	1.21	1.34	0.80	1.11	
48 Stephen Street, Chicago Sanitary & Ship Canal	1.19	1.15	1.24	1.11	1.00	1.19	1.21	1.40	1.16	0.96	1.13	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	1.35	1.33	1.37	1.45	1.64	0.63	1.62	ND	1.28	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.16	1.21	1.24	ND	ND	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	0.29	0.30	0.40	0.57	0.44	0.36	0.71	0.35	0.47	0.29	0.34	
50 Burnham Avenue, Wolf Lake	0.47	0.53	0.64	0.46	0.53	0.72	0.63	0.56	0.82	0.58	0.69	
55 130th Street, Calumet River	0.61	0.64	0.46	0.56	0.38	0.43	0.51	0.49	0.48	0.49	0.46	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	1.94	1.64	2.73	2.29	1.69	1.35	2.90	2.21	3.20	2.04	2.92	
56 Indiana Avenue, Little Calumet River	0.90	0.92	0.70	0.82	0.69	0.80	0.99	0.86	1.10	1.09	1.19	
76 Halsted Street, Little Calumet River	1.20	1.23	1.17	1.05	0.92	1.17	1.41	1.20	1.55	1.21	1.37	
52 Wentworth Avenue, Little Calumet River	1.35	1.46	1.75	2.09	2.49	1.35	1.55	1.08	1.51	1.13	1.31	
54 Joe Orr Road, Thorn Creek	1.36	1.42	1.54	1.37	1.19	1.25	1.43	1.27	1.69	1.31	1.28	
97 170th Street, Thorn Creek	1.21	1.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	1.24	1.35	1.16	1.21	1.24	1.20	1.21	1.12	1.36	1.03	1.04	
58 Ashland Avenue, Calumet Sag Channel	1.16	1.13	1.12	1.03	0.82	1.13	1.18	1.30	1.41	1.06	1.60	
59 Cicero Avenue, Calumet Sag Channel	1.24	1.22	1.73	1.06	1.04	1.31	1.26	1.28	1.47	1.14	1.54	
43 Route 83, Calumet Sag Channel	1.19	1.43	1.12	1.05	0.94	1.26	1.60	1.15	1.35	1.24	1.27	
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	0.83	0.92	1.20	1.71	0.66	1.14	1.07	1.05	1.01	1.11	0.87	
63 Longmeadow Lane, West Branch Du Page River	ND	1.58	1.50	1.68	1.52	1.60	1.82	1.72	1.62	1.20	1.30	
89 Walnut Lane, West Branch Du Page River	1.71	2.00	2.03	2.27	2.15	1.93	1.86	1.83	1.90	1.60	1.69	
64 Lake Street, West Branch Du Page River	1.77	2.07	2.06	1.83	1.92	2.01	1.85	1.87	1.86	1.60	1.69	
79 Higgins Road, Salt Creek	1.51	1.38	1.65	1.11	1.19	1.29	1.11	1.44	1.30	1.21	0.93	
80 Arlington Heights Road, Salt Creek	1.53	1.45	1.60	1.37	1.27	1.44	1.38	1.41	1.29	1.02	1.08	
18 Devon Avenue, Salt Creek	1.51	1.52	1.57	1.38	1.09	1.37	1.66	1.70	1.49	1.06	1.17	
24 Wolf Road, Salt Creek	1.23	1.35	1.41	1.10	0.97	1.43	1.81	1.51	1.54	1.26	1.22	
109 Brookfield Avenue, Salt Creek	1.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	1.22	1.23	1.43	1.32	0.92	1.38	1.39	1.31	1.43	1.27	1.13	
77 Elmhurst Road, Higgins Creek	1.20	1.16	1.28	1.17	0.66	0.81	1.04	1.12	1.25	0.85	0.84	
78 Wille Road, Higgins Creek	1.44	1.60	1.95	1.50	1.07	1.58	1.29	1.40	1.40	1.19	1.23	
12 Lake-Cook Road, Buffalo Creek	1.40	1.11	1.36	1.04	0.90	1.18	1.20	1.04	1.30	1.56	1.12	
13 Lake-Cook Road, Des Plaines River	1.69	1.38	1.68	1.12	1.08	1.25	1.00	1.17	1.52	1.24	1.17	
17 Oakton Street, Des Plaines River	1.45	1.45	1.48	1.11	1.14	1.28	1.38	1.56	1.05	1.13	1.28	
19 Belmont Avenue, Des Plaines River	1.30	1.51	2.09	1.01	1.03	1.37	1.40	1.45	1.66	1.16	1.31	
20 Roosevelt Road, Des Plaines River	1.25	1.42	1.43	1.04	1.10	1.38	1.44	1.37	1.48	1.11	1.29	
22 Ogden Avenue, Des Plaines River	1.26	1.47	1.34	1.02	1.35	1.56	1.37	1.40	1.52	1.28	1.18	
23 Willow Springs Road, Des Plaines River	1.90	1.56	1.51	0.99	1.22	1.31	1.47	1.40	1.59	1.16	1.30	
29 Stephen Street, Des Plaines River	1.40	1.74	1.20	1.08	1.36	1.54	1.47	1.52	1.77	1.26	1.38	
91 Material Service Road, Des Plaines River	1.44	1.51	1.49	ND	ND	ND	ND	ND	ND	ND	ND	

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-46

NITRITE PLUS NITRATE NITROGEN MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	2.60	7.57	ND	ND	ND	9.14	7.84	13.94	4.30	9.22
106 Dundee Road, West Fork North Branch Chicago River	4.00	5.14	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.03	3.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.38	0.37	0.35	0.41	0.51	0.43	0.37	0.47	0.38	0.42	0.51
104 Glenview Road, North Branch Chicago River	4.67	3.22	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.46	0.46	0.52	0.55	0.58	0.80	0.50	0.68	1.03	0.86	1.53
105 Frontage Road, Skokie River	5.83	3.87	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	4.57	2.65	4.51	4.93	3.85	5.13	5.01	3.39	4.44	3.44	4.69
96 Albany Avenue, North Branch Chicago River	4.24	3.05	5.37	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.34	0.28	0.29	0.32	0.22	0.25	0.20	0.24	0.25	0.55	0.26
102 Oakton Street, North Shore Channel	3.66	1.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.58	5.57	5.55	5.67	5.74	5.56	4.85	4.16	4.39	5.02	4.01
101 Foster Avenue, North Shore Channel	6.11	6.69	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	5.84	5.94	6.17	6.28	6.38	5.87	5.61	4.99	4.51	4.91	3.86
73 Diversey Parkway, North Branch Chicago River	5.29	5.48	5.49	6.23	5.46	5.16	5.44	4.51	5.17	4.42	4.98
46 Grand Avenue, North Branch Chicago River	5.47	4.86	5.63	5.51	5.27	4.74	4.92	4.71	4.03	3.60	3.99
74 Lake Shore Drive, Chicago River	1.38	1.93	1.84	1.08	0.96	0.39	0.42	0.31	0.35	0.40	0.36
100 Wells Street, Chicago River	2.31	2.33	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.37	3.61	4.28	4.33	3.41	2.39	2.58	2.19	2.04	2.40	2.17
108 Loomis Street, South Branch Chicago River	4.27	3.45	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.55	2.55	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	4.42	3.42	3.21	2.84	2.75	2.47	2.56	2.46	2.03
107 Western Avenue, Chicago Sanitary & Ship Canal	4.24	3.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.30	3.54	4.30	3.58	3.04	2.89	2.54	2.52	2.34	2.37	2.05
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.81	6.26	7.00	7.01	6.97	6.18	6.83	5.52	5.51	4.95	5.08
42 Route 83, Chicago Sanitary & Ship Canal	6.24	5.61	5.84	5.80	5.64	5.57	6.37	4.90	4.11	4.19	4.29
48 Stephen Street, Chicago Sanitary & Ship Canal	5.77	5.27	5.15	5.10	5.10	5.07	5.20	4.43	3.84	3.86	3.61
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	6.13	4.87	4.48	4.59	5.11	4.66	4.00	4.03	4.17
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.94	5.31	5.52	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.50	0.46	0.38	0.36	0.34	0.31	0.33	0.28	0.28	0.33	0.53
50 Burnham Avenue, Wolf Lake	0.10	0.16	0.09	0.78	0.12	0.23	0.16	0.10	0.09	0.15	0.83
55 130th Street, Calumet River	0.57	0.67	0.56	0.53	0.48	0.52	0.48	0.39	0.48	0.64	0.55
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	8.56	9.06	8.48	8.48	12.32	11.89	8.16	6.74	3.72	6.23	12.69
56 Indiana Avenue, Little Calumet River	2.39	1.95	1.86	1.79	3.18	4.04	1.64	1.04	1.04	2.19	1.53
76 Halsted Street, Little Calumet River	5.36	4.80	4.32	4.27	4.14	4.55	3.55	2.55	2.55	3.15	2.51
52 Wentworth Avenue, Little Calumet River	5.39	3.32	4.18	4.53	3.82	3.75	4.20	3.89	3.76	2.62	2.97
54 Joe Orr Road, Thorn Creek	9.86	6.81	7.92	7.68	6.80	6.79	7.59	8.58	8.76	6.95	8.50
97 170th Street, Thorn Creek	7.13	4.04	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4.35	3.07	4.31	3.71	2.82	3.64	3.56	3.65	3.61	2.56	3.13
58 Ashland Avenue, Calumet Sag Channel	5.39	4.57	4.22	3.32	3.59	3.78	3.34	2.53	2.39	2.60	2.75
59 Cicero Avenue, Calumet Sag Channel	5.39	4.26	4.26	3.40	3.78	3.91	3.26	2.39	2.32	2.62	2.42
43 Route 83, Calumet Sag Channel	4.67	4.25	4.20	3.37	3.50	3.97	3.33	2.76	2.48	2.56	2.52
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.28	0.49	0.39	0.46	0.44	1.81	0.47	0.34	0.45	0.44	0.43
63 Longmeadow Lane, West Branch Du Page River	ND	1.32	0.63	2.88	2.57	2.13	1.84	1.73	3.56	1.02	3.73
89 Walnut Lane, West Branch Du Page River	7.13	7.24	6.98	8.01	8.34	8.89	7.91	8.58	10.73	5.71	8.76
64 Lake Street, West Branch Du Page River	6.70	6.79	5.78	6.86	6.52	7.87	8.24	8.72	9.83	5.33	8.16
79 Higgins Road, Salt Creek	0.23	0.28	0.47	0.26	0.51	0.29	0.33	0.29	0.25	0.35	1.27
80 Arlington Heights Road, Salt Creek	7.69	6.92	6.27	7.07	7.46	5.18	5.13	5.81	6.11	3.56	5.98
18 Devon Avenue, Salt Creek	7.32	7.22	6.40	7.31	7.24	4.70	5.32	5.53	6.17	3.77	6.12
24 Wolf Road, Salt Creek	7.86	5.87	5.27	6.67	6.97	5.84	6.49	6.51	6.73	5.24	7.01
109 Brookfield Avenue, Salt Creek	8.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	5.10	5.34	4.80	6.35	6.94	6.57	5.75	6.14	6.27	5.08	6.37
77 Elmhurst Road, Higgins Creek	0.41	0.58	0.46	0.34	0.34	0.45	0.73	0.32	0.58	0.75	0.52
78 Willie Road, Higgins Creek	5.67	5.44	4.25	4.99	6.96	5.85	4.41	5.02	5.42	4.04	5.18
12 Lake-Cook Road, Buffalo Creek	0.22	0.48	0.51	0.41	0.44	0.33	0.51	0.39	0.32	1.25	1.01
13 Lake-Cook Road, Des Plaines River	6.05	4.94	5.24	5.02	4.92	4.35	5.14	4.30	6.80	3.58	5.77
17 Oakton Street, Des Plaines River	4.84	4.18	3.80	5.32	4.23	3.66	4.56	4.16	3.42	3.04	5.02
19 Belmont Avenue, Des Plaines River	4.62	3.87	3.54	4.54	4.00	3.87	4.16	3.98	4.52	3.06	4.38
20 Roosevelt Road, Des Plaines River	4.50	3.69	3.42	4.26	3.83	3.75	4.03	3.88	4.41	2.85	4.06
22 Ogden Avenue, Des Plaines River	5.21	3.98	3.78	5.02	4.75	4.45	4.20	4.35	4.61	3.44	4.66
23 Willow Springs Road, Des Plaines River	4.93	3.85	3.89	4.77	4.58	4.44	4.29	4.16	4.25	3.49	4.25
29 Stephen Street, Des Plaines River	5.18	3.70	3.91	4.61	4.64	4.55	4.27	4.51	4.26	3.59	4.16
91 Material Service Road, Des Plaines River	4.98	3.68	4.52	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-47

TOTAL SOLIDS MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	1941	1948	ND	ND	ND	811	696	567	800	714
106	Dundee Road, West Fork North Branch Chicago River	926	941	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	749	741	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	693	708	770	693	749	727	763	689	670	718	648
104	Glenview Road, North Branch Chicago River	631	631	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	661	737	828	704	772	840	819	693	758	699	718
105	Frontage Road, Skokie River	606	611	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dampster Street, North Branch Chicago River	688	754	863	726	729	859	860	692	760	673	707
96	Albany Avenue, North Branch Chicago River	724	674	616	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	321	230	363	299	276	246	320	240	207	355	225
102	Oakton Street, North Shore Channel	416	270	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	461	542	574	573	529	512	511	552	486	435	567
101	Poster Avenue, North Shore Channel	478	473	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	520	616	654	663	596	585	557	611	522	665	428
73	Diversey Parkway, North Branch Chicago River	514	642	654	655	592	622	590	565	514	577	446
46	Grand Avenue, North Branch Chicago River	503	602	587	596	620	547	618	617	506	496	453
74	Lake Shore Drive, Chicago River	314	403	402	297	320	235	237	220	216	320	226
100	Wells Street, Chicago River	366	378	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	469	565	517	484	492	370	418	391	355	405	346
108	Loomis Street, South Branch Chicago River	476	419	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	476	451	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	552	486	536	435	500	391	429	439	388
107	Western Avenue, Chicago Sanitary & Ship Canal	482	488	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	498	522	517	478	547	435	525	499	424	432	338
41	Harlem Avenue, Chicago Sanitary & Ship Canal	506	584	619	613	608	555	569	544	503	522	439
42	Route 83, Chicago Sanitary & Ship Canal	557	636	566	608	595	580	585	554	566	486	437
48	Stephen Street, Chicago Sanitary & Ship Canal	580	630	633	581	623	617	628	580	596	608	507
82	Lockport, Trebley, Chicago Sanitary & Ship Canal	ND	ND	812	634	632	658	638	623	584	603	522
92	Lockport, Forebay, Chicago Sanitary & Ship Canal	576	643	680	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	268	302	282	260	327	222	262	240	257	247	299
50	Burnham Avenue, Wolf Lake	247	265	255	231	286	265	272	245	270	261	258
55	110th Street, Calumet River	341	395	364	342	341	328	344	349	396	369	384
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	874	799	934	913	990	940	1364	1183	1113	968	1063
56	Indiana Avenue, Little Calumet River	475	414	489	461	514	523	516	459	571	607	494
76	Halsted Street, Little Calumet River	547	622	697	664	589	647	734	649	673	714	625
52	Wentworth Avenue, Little Calumet River	838	706	835	772	740	814	818	662	867	780	825
54	Joe Ori Road, Thorn Creek	1602	1230	1140	1096	1182	1273	1090	943	844	834	875
97	170th Street, Thorn Creek	1285	861	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	913	779	965	905	782	918	923	817	714	724	814
58	Ashland Avenue, Calumet Sag Channel	700	668	753	641	605	739	748	646	643	710	674
59	Cicero Avenue, Calumet Sag Channel	618	656	775	663	639	734	721	686	641	697	658
43	Route 83, Calumet Sag Channel	621	674	760	664	673	717	733	643	691	781	760
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	711	733	657	672	810	776	845	709	648	625	694
63	Longmeadow Lane, West Branch Du Page River	ND	888	698	869	827	1020	963	1027	770	1372	871
89	Walnut Lane, West Branch Du Page River	591	645	651	622	615	628	755	692	660	700	659
64	Lake Street, West Branch Du Page River	661	710	658	630	684	709	772	742	681	771	690
79	Higgins Road, Salt Creek	746	896	895	734	776	852	959	906	909	803	821
80	Arlington Heights Road, Salt Creek	666	743	749	670	709	781	828	721	746	675	726
18	Devon Avenue, Salt Creek	648	754	771	693	734	861	846	719	639	724	745
24	Wolf Road, Salt Creek	774	783	821	757	955	833	943	846	790	826	883
109	Brookfield Avenue, Salt Creek	565	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	1387	810	806	731	854	816	872	827	783	741	886
77	Elmhurst Road, Higgins Creek	958	1120	879	858	1015	930	1081	992	1297	922	1024
78	Wills Road, Higgins Creek	764	785	733	700	786	833	828	758	675	752	719
12	Lake-Cook Road, Buffalo Creek	764	860	810	716	753	802	842	777	778	919	817
13	Lake-Cook Road, Des Plaines River	707	676	709	627	714	713	731	695	740	606	684
17	Oakton Street, Des Plaines River	733	711	679	642	738	717	808	698	607	614	684
19	Belmont Avenue, Des Plaines River	758	702	675	637	720	765	802	747	762	657	727
20	Roosevelt Road, Des Plaines River	774	703	681	639	724	775	793	750	750	638	743
22	Ogden Avenue, Des Plaines River	813	743	713	665	745	804	805	779	705	637	769
23	Willow Springs Road, Des Plaines River	732	724	732	673	761	772	815	742	703	629	764
29	Stephen Street, Des Plaines River	754	733	734	671	768	846	850	789	718	678	745
91	Material Service Road, Des Plaines River	788	712	798	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-48

TOTAL VOLATILE SOLIDS MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	11.7	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	4.3	6.6	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	3.9	6.7	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	5.8	5.0	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	2.8	4.5	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	4.6	5.0	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	3.6	4.4	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	3.3	4.5	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	3.3	4.7	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	2.2	3.9	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	2.3	3.5	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	3.1	3.5	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	3.2	5.8	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.7	4.8	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.0	3.5	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	3.6	3.8	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	138.9	112.8	135.8	15.2	14.0	ND	ND	135.0	129.9
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	2.0	2.6	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	4.3	4.7	ND	ND	ND	ND
55	130th Street, Calumet River	ND	ND	ND	ND	ND	2.8	2.7	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	6.1	63.1	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	4.4	5.8	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	6.3	3.0	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	9.3	9.0	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	3.1	3.3	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	7.8	5.0	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	6.2	4.9	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	5.0	6.3	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	9.2	6.9	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	9.1	15.9	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	7.0	14.9	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	6.9	15.8	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	8.7	17.3	ND	ND	ND	ND
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	9.4	14.0	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	4.4	7.2	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	6.6	15.8	ND	ND	ND	ND
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	8.6	13.8	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	9.5	16.3	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	5.9	16.4	ND	ND	ND	ND
78	Wills Road, Higgins Creek	ND	ND	ND	ND	ND	4.5	10.0	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	7.1	13.4	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	7.3	9.4	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	8.6	12.8	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	9.2	11.8	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	9.3	10.4	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	9.6	10.8	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	7.5	13.8	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	8.4	13.8	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-49

TOTAL SUSPENDED SOLIDS MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	71.0	120.0	ND	ND	ND	97.0	40.6	41.0	42.7	63.8
106	Dundee Road, West Fork North Branch Chicago River	39.8	46.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	28.5	32.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	30.6	38.8	21.6	24.7	36.2	22.7	32.0	30.9	20.3	47.7	31.0
104	Glenview Road, North Branch Chicago River	25.9	22.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	18.1	21.8	14.3	24.0	15.2	13.2	23.9	32.6	13.8	47.9	33.5
105	Frontage Road, Skokie River	21.6	22.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	30.2	25.8	28.6	29.6	31.8	27.4	22.5	31.0	20.8	38.5	40.3
96	Albany Avenue, North Branch Chicago River	24.4	21.6	15.0	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	12.8	9.8	13.6	9.9	8.9	10.8	11.6	15.3	8.1	15.8	15.7
102	Oakton Street, North Shore Channel	20.5	16.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	15.3	8.5	10.8	10.3	10.3	9.4	11.5	13.7	12.2	12.0	17.7
101	Poster Avenue, North Shore Channel	15.4	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	18.5	16.8	15.0	13.0	10.6	12.3	13.1	14.8	9.6	13.8	13.9
73	Diversey Parkway, North Branch Chicago River	19.3	17.9	15.3	16.5	14.9	11.8	18.7	16.3	10.0	21.8	16.2
46	Grand Avenue, North Branch Chicago River	18.3	17.6	15.2	17.2	12.0	13.4	18.6	15.7	11.3	16.1	18.6
74	Lake Shore Drive, Chicago River	4.0	4.8	12.8	6.0	5.3	8.6	14.9	11.2	6.3	19.1	10.2
100	Wells Street, Chicago River	6.3	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Hudson Street, South Branch Chicago River	18.4	16.8	15.2	16.3	12.3	11.1	14.8	21.1	11.4	18.2	17.0
108	Loomis Street, South Branch Chicago River	12.2	17.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	14.4	19.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	19.1	14.0	13.4	13.8	13.6	28.8	12.0	14.8	17.1
107	Western Avenue, Chicago Sanitary & Ship Canal	19.3	19.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	15.1	20.8	16.5	18.5	13.7	14.2	16.8	18.5	16.1	19.7	17.9
41	Harlem Avenue, Chicago Sanitary & Ship Canal	11.6	10.8	11.5	13.2	10.0	12.2	14.3	11.8	15.7	10.2	21.5
42	Route 83, Chicago Sanitary & Ship Canal	11.5	12.1	8.8	8.3	10.5	11.2	9.0	19.3	15.5	17.1	18.3
48	Stephen Street, Chicago Sanitary & Ship Canal	13.4	15.2	16.8	11.5	15.3	15.9	17.5	29.3	18.5	29.3	29.8
82	Lockport Traylor, Chicago Sanitary & Ship Canal	ND	ND	19.2	37.0	57.4	64.3	38.3	12.1	15.3	15.5	16.2
92	Lockport Foxebay, Chicago Sanitary & Ship Canal	15.1	15.5	15.6	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Bwing Avenue, Calumet River	7.1	11.3	12.6	12.3	15.3	10.8	14.5	27.7	17.8	10.5	17.6
50	Burnham Avenue, Wolf Lake	3.6	7.4	4.7	5.4	10.7	8.2	14.3	14.2	22.3	8.1	12.9
55	130th Street, Calumet River	12.5	20.7	14.0	8.6	10.4	12.3	12.8	10.7	15.8	11.3	7.3
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	16.2	16.9	23.5	16.4	18.2	14.6	182.6	30.9	38.1	38.8	64.2
56	Indiana Avenue, Little Calumet River	27.8	29.6	22.2	26.4	18.0	24.5	37.3	53.4	43.2	40.1	33.7
76	Halsted Street, Little Calumet River	15.2	15.4	11.6	12.7	20.7	26.3	17.3	26.6	29.7	24.0	22.1
52	Wentworth Avenue, Little Calumet River	30.5	53.5	55.4	67.3	94.4	67.2	64.1	33.6	74.3	55.3	43.5
54	Joe Orr Road, Thorn Creek	7.4	11.6	24.1	16.6	15.2	14.6	9.8	19.5	26.5	38.4	12.0
97	170th Street, Thorn Creek	24.1	38.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	23.0	39.4	28.5	34.9	57.3	42.0	31.9	32.0	54.2	44.7	30.1
58	Ashland Avenue, Calumet Sag Channel	17.3	27.7	17.9	18.2	18.9	35.4	29.7	29.2	35.5	38.2	19.3
59	Cicero Avenue, Calumet Sag Channel	21.1	20.7	19.8	22.3	27.6	28.5	39.7	48.2	44.7	39.4	27.4
43	Route 83, Calumet Sag Channel	25.9	35.8	28.2	23.7	24.3	40.0	46.6	39.9	45.4	66.2	32.6
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	18.9	18.2	36.4	23.1	17.7	49.6	122.1	25.8	21.7	36.2	26.9
63	Longsadow Lane, West Branch Du Page River	ND	30.3	40.0	21.1	22.6	25.6	83.0	85.0	29.9	35.8	23.7
89	Walnut Lane, West Branch Du Page River	16.1	18.8	23.5	19.6	13.5	16.8	74.1	55.0	27.3	28.3	18.9
64	Lake Street, West Branch Du Page River	33.2	42.0	45.9	35.5	32.8	37.7	86.5	48.7	42.3	44.1	32.4
79	Higgins Road, Salt Creek	38.0	33.9	41.2	33.7	29.0	41.0	77.5	37.4	34.9	43.1	27.5
80	Arlington Heights Road, Salt Creek	8.3	11.3	11.7	14.4	8.5	14.8	17.5	16.4	12.1	14.5	11.3
18	Devon Avenue, Salt Creek	15.7	23.1	27.4	31.3	13.8	35.8	47.1	18.2	18.9	20.8	12.5
24	Wolf Road, Salt Creek	23.4	31.0	37.6	33.0	24.7	48.4	66.6	51.5	47.8	58.6	54.9
109	Brookfield Avenue, Salt Creek	18.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Pier Avenue, Salt Creek	20.7	29.3	40.6	33.6	26.3	52.9	83.0	28.6	50.5	78.3	39.3
77	Elmhurst Road, Higgins Creek	36.0	28.2	39.3	43.9	22.8	30.1	105.9	83.5	113.1	48.1	40.9
78	Wille Road, Higgins Creek	7.0	5.5	12.4	5.0	11.9	12.8	42.3	34.7	26.0	18.1	11.6
12	Lake-Cook Road, Buffalo Creek	32.4	33.3	74.6	54.2	27.4	36.7	72.3	30.5	46.6	48.2	29.3
13	Lake-Cook Road, Des Plaines River	28.7	29.8	33.8	32.8	32.3	42.4	45.2	28.3	36.2	41.1	29.7
17	Oakton Street, Des Plaines River	28.8	29.8	45.9	36.2	40.5	50.3	60.9	44.8	40.3	43.3	40.2
19	Belmont Avenue, Des Plaines River	28.5	26.3	31.2	27.7	24.0	53.3	60.3	44.8	50.6	45.4	35.8
20	Roosevelt Road, Des Plaines River	31.0	26.6	31.0	27.3	25.0	50.1	51.1	37.1	41.1	49.3	35.0
22	Ogden Avenue, Des Plaines River	23.2	27.3	34.3	29.7	27.6	56.9	52.2	36.0	45.9	61.1	35.3
23	Willow Springs Road, Des Plaines River	24.0	33.2	43.9	30.5	37.9	44.1	59.9	37.9	46.3	41.3	38.4
29	Stephen Street, Des Plaines River	28.3	44.1	42.5	39.4	38.6	46.1	70.0	42.6	56.4	57.4	49.8
91	Material Service Road, Des Plaines River	30.1	45.1	38.7	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-50

VOLATILE SUSPENDED SOLIDS MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	12.00	19.00	ND	ND	ND	ND	ND	ND	7.22	9.50
106 Dundee Road, West Fork North Branch Chicago River	6.50	7.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Golf Road, West Fork North Branch Chicago River	5.64	6.20	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.00	6.36	4.60	5.09	6.25	ND	ND	ND	ND	8.83	6.36
104 Glenview Road, North Branch Chicago River	5.22	5.30	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	4.70	4.45	3.50	4.64	3.50	ND	ND	ND	ND	8.75	8.09
105 Frontage Road, Skokie River	4.58	5.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	6.08	5.67	6.45	5.82	6.42	ND	ND	ND	ND	7.50	8.33
96 Albany Avenue, North Branch Chicago River	5.33	6.33	4.50	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.78	2.22	3.56	2.80	2.33	ND	ND	ND	ND	2.83	2.73
102 Oakton Street, North Shore Channel	5.27	3.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.08	3.83	4.50	4.08	4.08	ND	ND	ND	ND	5.36	5.67
101 Foster Avenue, North Shore Channel	5.50	3.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.75	4.92	4.83	3.58	3.00	ND	ND	ND	ND	4.50	5.25
73 Diversey Parkway, North Branch Chicago River	5.08	5.08	3.75	3.75	3.33	ND	ND	ND	ND	5.58	4.08
46 Grand Avenue, North Branch Chicago River	4.50	4.25	3.75	3.67	2.83	ND	ND	ND	ND	4.58	4.67
74 Lake Shore Drive, Chicago River	1.25	1.42	4.67	1.64	1.50	ND	ND	ND	ND	4.25	2.67
100 Wells Street, Chicago River	1.67	3.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.25	3.33	3.75	3.83	3.25	ND	ND	ND	ND	4.08	4.42
108 Loomis Street, South Branch Chicago River	2.33	3.89	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.25	7.70	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	4.11	3.18	3.17	ND	ND	ND	ND	3.67	4.08
107 Western Avenue, Chicago Sanitary & Ship Canal	4.50	4.40	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.00	5.00	3.67	3.83	3.17	ND	ND	ND	ND	4.25	3.58
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.92	3.17	3.58	3.64	3.17	ND	ND	ND	ND	3.42	5.25
42 Route 83, Chicago Sanitary & Ship Canal	2.42	3.17	2.36	2.75	3.08	ND	ND	ND	ND	4.67	5.67
48 Stephen Street, Chicago Sanitary & Ship Canal	2.58	3.42	3.82	2.73	3.42	ND	ND	ND	ND	5.92	6.00
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	4.71	7.39	12.08	ND	ND	5.34	6.29	6.43	6.06
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.48	3.57	3.68	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	1.42	1.58	2.00	2.05	2.21	ND	ND	ND	ND	2.33	3.00
50 Burnham Avenue, Wolf Lake	1.58	3.45	2.08	2.25	4.33	ND	ND	ND	ND	4.50	5.42
55 130th Street, Calumet River	2.67	4.09	2.73	1.94	1.96	ND	ND	ND	ND	3.67	2.00
51 IHR Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	7.09	5.90	10.00	5.55	7.83	ND	ND	ND	ND	13.75	9.42
56 Indiana Avenue, Little Calumet River	4.58	5.38	3.92	4.74	3.39	ND	ND	ND	ND	7.67	5.08
76 Halsted Street, Little Calumet River	3.67	4.25	2.75	3.00	7.46	ND	ND	ND	ND	5.83	4.83
52 Wentworth Avenue, Little Calumet River	5.45	9.55	9.91	19.73	17.00	ND	ND	ND	ND	8.00	6.58
54 Joe Orr Road, Thorn Creek	2.71	2.58	4.83	3.25	4.17	ND	ND	ND	ND	5.42	3.33
97 170th Street, Thorn Creek	4.17	5.90	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4.75	6.70	4.91	5.91	9.33	ND	ND	ND	ND	6.27	6.08
58 Ashland Avenue, Calumet Sag Channel	3.58	5.83	3.50	3.63	3.44	ND	ND	ND	ND	7.33	4.00
59 Cicero Avenue, Calumet Sag Channel	4.25	4.17	3.25	4.00	5.00	ND	ND	ND	ND	6.42	5.83
43 Route 83, Calumet Sag Channel	5.50	6.25	5.00	4.00	4.33	ND	ND	ND	ND	8.42	5.75
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	4.78	4.45	6.29	4.70	4.00	ND	ND	ND	ND	7.00	5.91
63 Longmeadow Lane, West Branch Du Page River	ND	4.00	9.00	5.22	6.25	ND	ND	ND	ND	8.02	7.27
89 Walnut Lane, West Branch Du Page River	4.58	4.75	6.42	5.91	5.50	ND	ND	ND	ND	6.83	4.58
64 Lake Street, West Branch Du Page River	7.33	9.00	10.55	7.82	8.17	ND	ND	ND	ND	9.58	7.50
79 Higgins Road, Salt Creek	9.38	9.30	10.10	10.30	8.70	ND	ND	ND	ND	9.36	6.45
80 Arlington Heights Road, Salt Creek	3.30	3.75	3.67	3.73	3.67	ND	ND	ND	ND	4.42	3.83
18 Devon Avenue, Salt Creek	4.10	5.00	5.33	5.27	3.42	ND	ND	ND	ND	6.42	4.17
24 Wolf Road, Salt Creek	5.25	5.50	6.60	5.55	5.17	ND	ND	ND	ND	10.08	8.58
109 Brookfield Avenue, Salt Creek	3.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	5.00	4.75	6.80	5.91	4.50	ND	ND	ND	ND	12.33	7.27
77 Elmhurst Road, Higgins Creek	6.83	6.36	8.60	9.55	4.92	ND	ND	ND	ND	8.42	7.64
78 Wille Road, Higgins Creek	2.58	2.75	4.00	2.55	3.83	ND	ND	ND	ND	4.67	3.92
12 Lake-Cook Road, Buffalo Creek	7.00	7.00	11.40	8.64	5.64	ND	ND	ND	ND	10.67	6.42
13 Lake-Cook Road, Des Plaines River	7.50	6.92	6.50	5.64	6.50	ND	ND	ND	ND	7.42	5.67
17 Oakton Street, Des Plaines River	7.09	6.17	8.80	6.45	8.33	ND	ND	ND	ND	8.75	7.73
19 Belmont Avenue, Des Plaines River	5.75	5.83	5.60	4.82	5.08	ND	ND	ND	ND	8.25	6.83
20 Roosevelt Road, Des Plaines River	6.08	5.75	5.70	5.00	4.50	ND	ND	ND	ND	8.67	6.67
22 Ogden Avenue, Des Plaines River	5.33	5.92	6.10	5.09	5.42	ND	ND	ND	ND	11.00	6.50
23 Willow Springs Road, Des Plaines River	6.00	6.75	7.80	5.64	7.25	ND	ND	ND	ND	8.25	8.83
29 Stephen Street, Des Plaines River	6.58	9.50	7.30	7.45	8.42	ND	ND	ND	ND	11.08	10.50
91 Material Service Road, Des Plaines River	7.50	8.98	8.05	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-51

TOTAL DISSOLVED SOLIDS MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	1870	1828	ND	ND	ND	729	655	526	757	651
106 Dundee Road, West Fork North Branch Chicago River	886	894	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	721	709	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	663	669	747	669	713	705	715	658	650	671	617
104 Glenview Road, North Branch Chicago River	605	608	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	643	715	814	680	757	827	795	661	744	651	685
105 Frontage Road, Skokie River	584	589	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	658	729	835	697	697	832	858	661	739	635	667
96 Albany Avenue, North Branch Chicago River	700	652	601	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	309	220	350	289	267	235	316	225	198	339	210
102 Oakton Street, North Shore Channel	395	254	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	446	534	563	563	519	502	503	539	475	423	549
101 Foster Avenue, North Shore Channel	463	463	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	501	600	639	650	585	572	551	597	512	651	414
73 Diversely Parkway, North Branch Chicago River	495	624	639	639	577	610	578	549	504	555	429
46 Grand Avenue, North Branch Chicago River	485	585	572	579	608	533	610	601	486	480	434
74 Lake Shore Drive, Chicago River	310	398	389	291	315	227	221	219	209	300	216
100 Wells Street, Chicago River	360	368	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	450	548	502	467	480	359	410	370	344	387	329
108 Loomis Street, South Branch Chicago River	463	401	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	462	431	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	533	472	522	421	501	362	417	424	370
107 Western Avenue, Chicago Sanitary & Ship Canal	463	469	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	483	502	501	459	533	421	510	480	408	413	320
41 Harlem Avenue, Chicago Sanitary & Ship Canal	495	574	607	600	598	543	557	532	486	512	417
42 Route 83, Chicago Sanitary & Ship Canal	546	524	558	600	585	569	578	538	550	468	419
48 Stephen Street, Chicago Sanitary & Ship Canal	566	615	616	570	607	601	624	551	577	579	478
82 Lockport Trehler, Chicago Sanitary & Ship Canal	ND	ND	792	597	574	594	599	611	568	ND	505
92 Lockport Forebay, Chicago Sanitary & Ship Canal	561	628	665	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	261	290	269	247	313	211	249	213	239	236	282
50 Burnham Avenue, Wolf Lake	243	258	250	226	275	257	258	231	248	253	245
55 130th Street, Calumet River	329	374	350	334	329	318	333	338	291	357	376
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	858	782	911	897	972	925	1181	1152	1078	930	999
56 Indiana Avenue, Little Calumet River	447	385	466	440	496	503	479	405	527	567	460
76 Halsted Street, Little Calumet River	532	606	685	651	564	626	717	622	643	690	603
52 Wentworth Avenue, Little Calumet River	808	653	780	705	645	747	754	628	812	725	781
54 Joe Orr Road, Thorn Creek	1594	1218	1116	1080	1167	1258	1080	923	818	795	863
97 170th Street, Thorn Creek	1361	822	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	890	739	937	870	725	876	891	785	720	679	783
58 Ashland Avenue, Calumet Sag Channel	683	641	735	622	588	708	719	617	607	671	655
59 Cicero Avenue, Calumet Sag Channel	597	636	756	639	614	706	682	636	596	658	630
43 Route 83, Calumet Sag Channel	595	638	732	638	649	675	688	604	646	715	727
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	692	715	620	649	792	726	723	683	626	588	667
63 Longmeadow Lane, West Branch Du Page River	ND	858	658	848	804	994	880	942	740	1336	847
89 Walnut Lane, West Branch Du Page River	575	626	628	603	602	611	681	637	632	672	640
64 Lake Street, West Branch Du Page River	627	668	612	595	651	671	685	693	639	727	658
79 Higgins Road, Salt Creek	708	862	854	700	747	811	882	869	874	760	793
80 Arlington Heights Road, Salt Creek	658	732	738	655	701	766	811	704	734	660	715
18 Devon Avenue, Salt Creek	632	731	743	662	721	825	799	701	620	703	733
24 Wolf Road, Salt Creek	750	752	784	724	931	785	877	794	742	767	828
109 Brookfield Avenue, Salt Creek	547	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	1366	780	765	697	828	763	789	798	733	666	847
77 Elmhurst Road, Higgins Creek	922	1092	840	814	992	900	975	909	1184	874	983
78 Wille Road, Higgins Creek	757	780	721	695	774	821	786	723	649	734	708
12 Lake-Cook Road, Buffalo Creek	731	827	735	662	726	765	769	747	731	771	788
13 Lake-Cook Road, Des Plaines River	678	646	675	594	682	670	685	666	704	565	654
17 Oakton Street, Des Plaines River	704	681	633	606	697	667	747	653	557	571	644
19 Belmont Avenue, Des Plaines River	730	676	643	609	696	712	742	703	711	612	692
20 Roosevelt Road, Des Plaines River	743	676	650	611	699	725	742	713	709	589	708
22 Ogden Avenue, Des Plaines River	790	716	679	635	718	747	753	743	659	576	734
23 Willow Springs Road, Des Plaines River	708	690	688	642	733	728	755	703	657	588	726
29 Stephen Street, Des Plaines River	726	689	692	632	729	800	780	747	662	621	695
91 Material Service Road, Des Plaines River	758	667	759	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-52

TOTAL DISSOLVED VOLATILE SOLIDS MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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 Trehler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Swing 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
51 IHB Rail Road Bridge, Grand 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
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-53

PHENOLS MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (µg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	21.0	10.0	ND	ND	ND	10.5	11.6	7.0	15.4	7.4
106 Dundee Road, West Fork North Branch Chicago River	5.5	18.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.6	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	11.6	16.5	24.5	26.0	14.8	17.3	19.3	12.0	18.8	16.8	7.4
104 Glenview Road, North Branch Chicago River	5.2	11.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	9.1	15.3	19.6	21.0	13.4	15.8	14.8	13.1	13.9	19.9	7.5
105 Frontage Road, Skokie River	5.4	10.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.3	11.7	18.0	16.0	9.6	11.2	11.8	9.6	11.8	14.0	6.6
96 Albany Avenue, North Branch Chicago River	6.6	13.1	14.5	ND	ND	ND	ND	ND	ND	ND	ND
15 Central Street, North Shore Channel	4.5	4.6	13.3	12.4	10.3	8.8	15.1	10.0	8.9	6.6	3.8
102 Oakton Street, North Shore Channel	6.0	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	9.0	14.3	22.2	20.4	13.4	13.5	12.3	9.3	12.9	14.3	7.8
101 Foster Avenue, North Shore Channel	9.0	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	8.3	13.3	20.6	18.7	11.4	12.6	13.0	9.5	13.9	13.0	7.8
73 Diversley Parkway, North Branch Chicago River	8.6	13.8	20.8	17.8	12.1	13.2	11.3	9.3	11.1	14.2	7.6
46 Grand Avenue, North Branch Chicago River	8.5	15.0	21.4	18.8	14.1	13.1	11.8	9.9	12.3	14.3	10.8
74 Lake Shore Drive, Chicago River	2.7	7.3	15.6	9.2	9.3	7.0	7.2	5.5	9.9	6.5	5.9
100 Wells Street, Chicago River	3.8	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	6.7	10.9	23.0	15.8	12.7	9.3	8.0	6.8	7.9	11.6	6.5
108 Loomis Street, South Branch Chicago River	7.4	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	9.5	17.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	23.0	15.6	11.3	12.1	8.8	9.7	11.7	10.8	8.4
107 Western Avenue, Chicago Sanitary & Ship Canal	7.5	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.7	11.7	17.5	16.0	13.6	11.1	10.4	11.8	9.8	9.8	7.6
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.8	14.8	18.5	15.3	12.5	14.1	12.4	8.4	16.8	15.2	7.5
42 Route 83, Chicago Sanitary & Ship Canal	8.7	13.4	19.1	17.4	13.4	10.4	10.8	10.7	13.3	15.1	6.7
48 Stephen Street, Chicago Sanitary & Ship Canal	8.3	12.8	21.8	17.9	14.9	12.7	11.6	13.5	14.8	17.8	9.4
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	15.3	10.5	12.6	10.9	10.2	8.2	10.3	13.5	9.6
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.5	10.9	18.5	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	1.7	3.3	7.3	7.2	5.7	8.0	6.8	5.6	8.8	8.4	4.0
50 Burnham Avenue, Wolf Lake	3.8	5.0	11.6	10.0	10.8	8.6	9.3	7.5	10.1	10.8	4.8
55 130th Street, Calumet River	1.8	5.0	10.5	8.2	6.9	8.0	7.5	7.5	13.1	10.0	4.8
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	6.1	8.0	22.8	20.0	14.4	10.4	34.5	12.0	20.6	19.2	12.3
56 Indiana Avenue, Little Calumet River	4.1	6.0	13.1	15.3	7.4	7.6	6.2	8.0	9.5	13.0	19.3
76 Halsted Street, Little Calumet River	9.4	11.4	24.1	46.6	13.8	12.8	13.3	12.1	17.4	53.0	12.7
52 Wentworth Avenue, Little Calumet River	16.5	12.5	21.5	23.1	13.4	12.5	12.9	14.8	13.3	17.7	8.8
54 Joe Orr Road, Thorn Creek	9.0	10.2	19.7	18.8	11.2	15.2	14.4	10.4	14.3	18.7	7.8
97 170th Street, Thorn Creek	8.0	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	8.4	11.9	19.9	21.1	15.8	14.0	14.4	11.4	15.4	21.7	8.3
58 Ashland Avenue, Calumet Sag Channel	8.8	11.8	21.1	22.6	17.5	15.3	13.7	13.1	14.8	20.1	13.1
59 Cicero Avenue, Calumet Sag Channel	9.3	13.5	20.6	26.3	15.4	14.2	20.0	13.1	15.7	23.9	14.8
43 Route 83, Calumet Sag Channel	10.2	11.5	19.1	21.5	16.1	12.7	13.8	12.3	14.6	22.9	11.7
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	5.3	10.4	17.3	16.3	14.2	16.1	11.1	8.8	10.1	13.7	7.0
63 Longmeadow Lane, West Branch Du Page River	ND	18.0	20.1	18.8	14.3	14.4	17.9	9.6	19.6	14.3	9.2
89 Walnut Lane, West Branch Du Page River	7.8	17.1	19.7	20.1	16.9	13.0	14.7	9.2	13.7	15.9	6.8
64 Lake Street, West Branch Du Page River	6.3	15.8	22.5	19.3	15.3	13.6	14.7	10.5	15.7	15.0	9.0
79 Higgins Road, Salt Creek	6.1	13.4	17.1	16.6	15.3	12.8	12.1	8.1	10.1	13.0	5.6
80 Arlington Heights Road, Salt Creek	6.6	15.3	18.2	20.3	13.2	12.8	12.0	8.9	11.1	14.8	7.0
18 Devon Avenue, Salt Creek	5.1	16.2	17.6	19.5	13.7	13.3	22.0	9.8	10.3	14.2	7.3
24 Wolf Road, Salt Creek	5.7	12.4	17.1	16.3	9.5	12.7	10.2	9.6	11.6	14.8	7.1
109 Brookfield Avenue, Salt Creek	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	4.7	11.9	20.1	16.3	11.9	11.5	10.5	9.6	11.0	14.3	7.2
77 Elmhurst Road, Higgins Creek	5.8	14.9	28.4	21.6	14.4	17.0	12.8	9.1	9.3	13.8	6.2
78 Wille Road, Higgins Creek	11.3	19.0	26.6	25.0	14.8	16.7	12.1	9.1	11.3	17.2	7.9
12 Lake-Cook Road, Buffalo Creek	9.1	10.6	21.7	20.1	15.0	12.9	13.2	7.9	12.2	13.2	7.7
13 Lake-Cook Road, Des Plaines River	4.6	11.4	18.3	16.7	12.4	12.6	10.2	7.2	8.9	16.2	8.1
17 Oakton Street, Des Plaines River	6.4	11.5	19.6	17.0	12.6	12.9	10.2	9.3	8.7	17.2	7.5
19 Belmont Avenue, Des Plaines River	5.3	11.8	20.3	17.9	13.5	13.3	10.4	8.7	12.4	16.5	9.3
20 Roosevelt Road, Des Plaines River	5.3	11.3	19.7	18.7	13.2	13.6	10.0	9.7	10.8	15.7	8.0
22 Ogden Avenue, Des Plaines River	5.0	12.5	19.6	16.9	11.5	13.9	11.3	8.4	14.0	14.7	8.3
23 Willow Springs Road, Des Plaines River	5.6	11.5	16.9	16.1	12.2	13.8	10.9	9.3	12.2	16.6	8.8
29 Stephen Street, Des Plaines River	5.2	14.8	16.3	18.1	13.6	13.0	9.9	10.3	14.1	15.3	9.0
91 Material Service Road, Des Plaines River	5.1	9.9	18.2	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-54

SULFATE MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	74.5	77.0	ND	ND	ND	63.6	70.3	57.0	90.9	82.3
106	Dundee Road, West Fork North Branch Chicago River	61.8	67.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	64.5	61.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	72.3	69.0	72.0	71.9	77.9	62.9	72.5	81.2	82.0	82.7	98.6
104	Glenview Road, North Branch Chicago River	64.1	64.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	62.3	70.4	74.4	79.2	87.6	78.6	89.2	78.0	90.1	90.8	106.8
105	Frontage Road, Skokie River	64.8	62.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	61.9	63.2	76.1	72.4	77.9	79.4	81.7	88.5	96.4	79.8	97.5
96	Albany Avenue, North Branch Chicago River	69.0	65.8	59.1	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	34.9	25.6	12.5	34.3	34.1	32.1	34.3	39.4	36.8	42.8	38.8
102	Oakton Street, North Shore Channel	43.3	28.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	53.3	79.8	53.8	51.3	54.2	45.0	51.4	55.1	56.9	57.5	54.9
101	Foster Avenue, North Shore Channel	50.6	49.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	57.1	57.3	53.8	55.7	56.9	52.2	56.7	61.8	57.6	68.5	62.5
73	Diverses Parkway, North Branch Chicago River	55.6	58.2	55.8	68.5	56.5	48.8	61.1	64.7	56.5	65.2	68.1
46	Grand Avenue, North Branch Chicago River	56.3	56.3	55.4	59.2	60.1	53.1	60.2	76.6	58.7	65.3	62.9
74	Lake Shore Drive, Chicago River	32.0	32.0	39.3	32.6	29.9	24.8	28.1	40.2	34.9	40.9	37.4
100	Wells Street, Chicago River	36.6	36.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	49.1	45.8	50.4	51.3	47.2	37.1	39.7	50.1	46.6	57.4	47.8
108	Loomis Street, South Branch Chicago River	49.3	43.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	51.6	51.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	51.9	51.1	50.5	45.0	47.5	46.1	48.0	55.8	54.9
107	Western Avenue, Chicago Sanitary & Ship Canal	49.6	43.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	54.3	46.8	51.6	50.0	45.5	39.0	47.1	60.9	50.6	55.3	54.7
41	Harlem Avenue, Chicago Sanitary & Ship Canal	69.5	63.6	72.3	75.6	75.7	64.5	74.0	71.6	66.8	72.3	69.6
42	Route 83, Chicago Sanitary & Ship Canal	78.5	67.1	70.8	72.2	69.6	68.8	70.6	73.9	75.4	78.5	69.2
48	Stephen Street, Chicago Sanitary & Ship Canal	88.1	88.9	92.3	91.5	80.7	84.9	89.4	95.7	95.2	103.8	98.9
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	100.9	89.5	97.1	85.0
92	Lockport Forebay, Chicago Sanitary & Ship Canal	88.7	91.1	96.2	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	28.4	28.3	29.8	29.8	25.1	23.9	27.5	50.8	43.0	44.2	35.7
50	Burnham Avenue, Wolf Lake	36.6	38.9	38.6	35.3	32.2	33.0	31.5	63.2	44.9	48.1	42.2
55	130th Street, Calumet River	54.7	63.3	49.8	50.6	43.4	52.2	46.1	72.4	53.1	70.8	84.9
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	219.9	184.3	177.2	157.5	195.7	173.8	229.5	247.4	299.3	225.0	278.4
56	Indiana Avenue, Little Calumet River	78.9	73.4	77.8	72.4	88.2	83.9	76.4	103.6	98.7	108.8	96.2
76	Halsted Street, Little Calumet River	91.2	113.3	143.1	125.0	119.0	112.8	154.5	163.2	142.3	153.5	165.3
52	Wentworth Avenue, Little Calumet River	146.0	122.5	145.1	131.2	122.0	128.8	143.7	144.9	162.5	150.0	178.7
54	Joe Orr Road, Thorn Creek	724.5	521.3	342.4	380.1	355.8	391.1	312.9	205.8	173.5	162.8	178.0
97	170th Street, Thorn Creek	445.9	255.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	241.9	161.0	190.1	229.8	158.0	179.7	216.8	174.1	161.0	138.7	177.1
58	Ashland Avenue, Calumet Sag Channel	146.2	110.3	163.6	133.2	133.6	94.2	139.6	147.1	139.3	144.8	145.5
59	Cicero Avenue, Calumet Sag Channel	118.2	124.3	151.8	133.9	139.3	130.7	143.1	156.8	137.8	146.2	149.2
43	Route 83, Calumet Sag Channel	109.3	116.6	144.1	132.4	135.7	126.7	134.4	127.0	141.5	146.4	151.7
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	62.8	63.0	60.4	58.0	71.2	54.6	58.9	85.6	82.4	81.0	114.8
63	Longmeadow Lane, West Branch Du Page River	ND	83.5	71.7	87.1	79.9	76.9	60.2	90.7	89.4	90.4	137.4
89	Walnut Lane, West Branch Du Page River	65.4	73.5	69.3	68.7	67.9	61.0	61.0	79.2	75.1	76.4	87.8
64	Lake Street, West Branch Du Page River	68.0	77.8	68.5	70.5	71.3	64.7	65.8	122.5	78.7	77.5	101.3
79	Higgins Road, Salt Creek	76.0	89.5	79.5	74.9	78.4	67.0	73.8	91.6	97.6	90.5	127.7
80	Arlington Heights Road, Salt Creek	79.3	84.4	73.9	83.6	81.3	72.7	79.2	88.5	91.0	85.6	119.3
18	Devon Avenue, Salt Creek	79.5	82.4	74.0	74.5	76.3	77.0	68.9	97.4	92.9	86.8	114.8
24	Wolf Road, Salt Creek	95.0	98.7	89.4	94.5	108.9	87.4	100.9	107.1	103.8	100.4	126.7
109	Brookfield Avenue, Salt Creek	84.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	95.8	94.2	86.2	90.1	104.4	87.2	81.2	112.5	102.5	92.7	124.1
77	Elmhurst Road, Higgins Creek	47.8	60.9	47.0	55.4	66.4	48.9	81.9	84.8	68.4	72.3	92.1
78	Wille Road, Higgins Creek	97.1	107.8	94.5	99.3	96.5	88.7	96.3	103.0	101.6	97.0	116.0
12	Lake-Cook Road, Buffalo Creek	95.7	98.4	106.5	103.8	92.9	83.9	87.5	117.3	101.2	98.2	135.2
13	Lake-Cook Road, Des Plaines River	84.9	76.8	81.0	71.1	87.9	80.6	89.1	119.2	117.6	92.7	130.8
17	Oakton Street, Des Plaines River	86.3	85.8	75.5	73.4	83.4	75.3	88.2	114.0	80.5	84.2	121.5
19	Belmont Avenue, Des Plaines River	85.6	79.5	78.1	78.3	86.3	76.1	88.2	120.5	107.5	85.3	124.8
20	Roosevelt Road, Des Plaines River	87.4	80.5	78.5	75.6	84.3	75.4	91.0	105.4	105.5	85.8	120.1
22	Ogden Avenue, Des Plaines River	87.5	98.9	79.2	77.7	87.7	78.2	84.2	112.5	94.0	86.3	122.5
23	Willow Springs Road, Des Plaines River	90.0	83.8	85.5	82.2	90.6	81.6	97.2	105.3	105.5	87.3	125.8
29	Stephen Street, Des Plaines River	90.6	82.9	83.4	79.6	90.0	87.2	95.1	106.6	104.4	95.3	129.3
91	Material Service Road, Des Plaines River	95.8	81.2	89.1	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-55

FATS, OILS, AND GREASES MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	4.50	7.44	4.00	9.89	6.73
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	11.63	5.49	3.13	5.50	10.40	13.25	10.45
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	4.37	5.74	1.88	8.33	7.11	12.17	8.00
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	3.63	6.06	2.42	8.20	5.82	12.50	7.33
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	6.01	2.00	5.38	5.06	13.83	8.09
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.54	4.79	ND	ND	3.97	6.50	1.92	9.33	9.27	12.00	7.42
101 Foster Avenue, North Shore Channel	4.84	3.96	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	5.45	4.56	ND	ND	4.27	8.40	5.08	6.67	8.06	13.98	7.33
73 Diversey Parkway, North Branch Chicago River	3.85	8.94	ND	ND	2.45	7.27	3.08	6.00	6.75	12.42	11.08
46 Grand Avenue, North Branch Chicago River	4.72	3.88	ND	ND	2.75	9.51	4.25	13.14	7.67	13.17	15.67
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	2.00	2.91	2.91	8.10	6.76	11.75	7.00
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	5.70	4.16	ND	ND	4.85	3.65	2.17	7.36	4.40	10.58	6.92
108 Loomis Street, South Branch Chicago River	4.68	4.79	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.41	4.03	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	5.25	3.87	2.67	8.67	8.42	13.67	7.00
107 Western Avenue, Chicago Sanitary & Ship Canal	4.37	3.89	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.57	4.09	ND	ND	2.55	7.41	3.42	9.92	8.17	11.83	7.33
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5.16	4.09	ND	ND	2.65	6.26	1.92	7.67	6.47	9.67	6.42
42 Route 83, Chicago Sanitary & Ship Canal	5.31	5.79	ND	ND	3.00	6.58	3.83	7.42	7.84	10.67	6.25
48 Stephen Street, Chicago Sanitary & Ship Canal	4.10	3.37	ND	ND	1.85	8.13	2.00	11.17	8.33	10.25	7.83
82 Lockport Trencher, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.76	3.92	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	3.00	4.70	3.56	4.91	9.18	12.83	5.57
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	4.63	7.42	2.25	5.82	6.83	10.58	6.00
55 130th Street, Calumet River	ND	ND	ND	ND	2.33	5.42	3.80	5.18	6.91	11.00	5.08
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	5.76	3.17	ND	ND	3.20	11.05	8.91	7.00	6.92	10.67	7.00
56 Indiana Avenue, Little Calumet River	4.87	3.39	ND	ND	3.97	4.98	3.78	6.90	6.27	11.00	6.42
76 Halsted Street, Little Calumet River	4.39	4.54	ND	ND	3.80	7.47	1.50	5.91	5.83	11.50	5.08
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	3.60	6.83	1.67	5.00	5.45	12.92	5.75
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	12.80	8.18	2.73	7.91	5.58	10.56	8.75
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	3.00	5.43	4.11	6.82	4.50	12.00	6.08
58 Ashland Avenue, Calumet Sag Channel	5.33	4.20	ND	ND	ND	7.50	2.91	6.00	5.42	10.42	4.67
59 Cicero Avenue, Calumet Sag Channel	4.45	3.92	ND	ND	5.07	4.83	5.73	5.36	6.17	13.42	4.42
43 Route 83, Calumet Sag Channel	4.38	4.33	ND	ND	5.53	4.58	5.00	6.60	5.45	12.00	4.08
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	ND	ND	ND	ND	2.55	7.27	7.91	4.70	10.99	10.91	9.73
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	3.50	8.50	4.55	7.00	7.30	12.55	7.73
89 Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	5.35	4.60	6.58	6.33	8.33	9.83	8.33
64 Lake Street, West Branch Du Page River	ND	ND	ND	ND	5.30	7.49	7.55	5.92	7.00	10.83	6.42
79 Higgins Road, Salt Creek	ND	ND	ND	ND	2.50	7.07	6.10	5.50	8.20	9.55	7.45
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	14.20	6.21	8.42	5.18	6.90	9.83	8.25
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	9.20	7.16	9.18	7.09	7.25	9.73	8.67
24 Wolf Road, Salt Creek	ND	ND	ND	ND	5.55	5.30	5.58	6.08	5.73	10.92	9.25
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	5.45	6.70	5.92	7.18	6.27	11.67	6.64
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	3.35	4.25	10.58	11.42	7.18	11.33	6.73
78 Willie Road, Higgins Creek	ND	ND	ND	ND	4.05	4.67	9.83	7.08	7.09	13.42	9.17
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	3.05	8.94	7.92	7.08	6.40	10.67	8.42
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	4.15	6.26	7.25	7.73	6.89	9.75	8.42
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	3.70	6.23	6.67	5.10	6.00	12.33	8.09
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	5.45	4.75	6.50	5.58	6.17	10.00	7.33
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	6.40	4.65	5.58	6.58	7.42	10.42	7.50
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	5.45	5.20	6.54	6.58	5.73	12.75	6.58
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	4.80	6.09	5.18	6.18	6.00	12.25	6.08
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	3.00	4.56	6.67	5.92	6.09	12.58	4.92
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-56

TOTAL PHOSPHORUS MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
30 Lake-Cook Road, West Fork North Branch	ND	0.545	2.200	ND	ND	ND	2.365	2.019	3.165	1.067	2.251	
106 Dundee Road, West Fork North Branch Chicago River	0.963	1.102	ND	ND	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	0.752	0.663	ND	ND	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	0.155	0.141	0.185	0.245	0.183	0.198	0.186	0.174	0.204	0.170	0.123	
104 Glenview Road, North Branch Chicago River	1.256	0.844	ND	ND	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	0.187	0.150	0.224	0.196	0.152	0.219	0.191	0.206	0.347	0.228	0.401	
105 Frontage Road, Skokie River	1.477	0.932	ND	ND	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	1.153	0.624	1.147	1.208	0.777	1.237	1.093	0.889	1.235	0.819	1.069	
96 Albany Avenue, North Branch Chicago River	1.037	0.718	1.312	ND	ND	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0.101	0.058	0.183	0.215	0.129	0.067	0.392	0.140	0.035	0.108	0.085	
102 Oakton Street, North Shore Channel	0.655	0.221	ND	ND	ND	ND	ND	ND	ND	ND	ND	
36 Touhy Avenue, North Shore Channel	1.057	1.259	1.214	1.351	1.185	1.189	1.132	0.838	0.958	0.814	0.765	
101 Foster Avenue, North Shore Channel	1.148	1.406	ND	ND	ND	ND	ND	ND	ND	ND	ND	
37 Wilson Avenue, North Branch Chicago River	1.043	1.198	1.301	1.388	1.086	1.033	1.039	0.839	0.998	0.831	0.863	
73 Diverser Parkway, North Branch Chicago River	0.905	0.889	1.102	1.116	0.843	0.943	0.814	0.623	0.749	0.649	0.796	
46 Grand Avenue, North Branch Chicago River	0.953	0.800	1.130	1.120	0.863	0.870	0.938	0.761	0.798	0.717	0.778	
74 Lake Shore Drive, Chicago River	0.191	0.291	0.373	0.206	0.202	0.099	0.120	0.100	0.050	0.118	0.087	
100 Wells Street, Chicago River	0.429	0.387	ND	ND	ND	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	0.756	0.611	1.130	0.839	0.605	0.465	0.393	0.380	0.346	0.461	0.381	
108 Loomis Street, South Branch Chicago River	0.732	0.573	ND	ND	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0.719	0.610	ND	ND	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	1.046	0.727	0.528	0.570	0.406	0.375	0.542	0.402	0.479	
107 Western Avenue, Chicago Sanitary & Ship Canal	0.738	0.609	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.723	0.671	0.965	0.690	0.550	0.573	0.458	0.443	0.549	0.390	0.557	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.984	0.990	1.120	1.044	0.853	0.888	0.757	0.731	0.798	0.533	0.583	
42 Route 83, Chicago Sanitary & Ship Canal	0.918	0.760	0.755	0.643	0.661	0.678	0.548	0.552	0.771	0.488	0.510	
48 Stephen Street, Chicago Sanitary & Ship Canal	1.180	1.096	1.355	1.098	0.859	1.063	0.873	0.828	0.991	0.693	0.950	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	1.485	1.545	1.211	1.236	1.165	1.088	1.099	0.898	0.984	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.197	1.032	1.414	ND	ND	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	0.060	0.081	0.131	0.145	0.081	0.088	0.155	0.143	0.054	0.030	0.020	
50 Burnham Avenue, Wolf Lake	0.035	0.070	0.075	0.234	0.056	0.095	0.094	0.074	0.061	0.054	0.069	
55 130th Street, Calumet River	0.039	0.127	0.088	0.197	0.151	0.094	0.092	0.074	0.066	0.069	0.037	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	0.613	0.666	0.537	0.857	0.704	0.465	1.038	0.513	0.662	0.768	1.649	
56 Indiana Avenue, Little Calumet River	0.495	0.554	0.373	0.324	0.214	0.152	0.143	0.156	0.230	0.262	0.215	
76 Halsted Street, Little Calumet River	2.038	1.386	1.193	2.595	1.885	1.758	1.243	1.623	1.455	1.249	1.640	
52 Wentworth Avenue, Little Calumet River	0.595	0.495	0.752	1.168	0.815	0.553	0.528	0.478	0.565	0.376	0.556	
54 Joe Orr Road, Thorn Creek	5.909	5.645	5.208	3.000	8.043	8.065	6.090	5.159	4.173	4.538	5.296	
97 170th Street, Thorn Creek	2.607	2.296	ND	ND	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	1.481	1.537	2.170	1.522	1.619	1.992	1.736	1.409	1.626	0.946	1.428	
58 Ashland Avenue, Calumet Sag Channel	2.070	1.442	3.038	2.190	1.948	1.445	1.470	1.587	1.389	0.946	1.884	
59 Cicero Avenue, Calumet Sag Channel	2.129	1.511	3.119	2.396	2.118	1.930	1.623	1.771	1.604	1.278	2.018	
43 Route 83, Calumet Sag Channel	1.814	1.619	2.642	2.453	1.832	2.012	1.631	1.521	1.596	1.300	1.623	
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	0.066	0.060	0.181	0.430	0.101	0.424	0.165	0.142	0.102	0.114	0.093	
63 Longmeadow Lane, West Branch Du Page River	ND	0.225	0.184	0.952	0.770	0.547	0.535	0.555	0.811	0.250	0.909	
89 Walnut Lane, West Branch Du Page River	2.603	2.428	2.109	2.742	2.903	2.453	2.163	2.271	2.318	1.399	2.420	
64 Lake Street, West Branch Du Page River	2.245	2.030	1.649	2.205	2.385	2.007	1.811	1.979	2.025	1.318	2.142	
79 Higgins Road, Salt Creek	0.109	0.106	0.249	0.128	0.176	0.169	0.148	0.139	0.109	0.114	0.324	
80 Arlington Heights Road, Salt Creek	1.992	1.687	1.688	2.224	1.974	1.575	1.583	1.994	1.802	0.883	1.628	
18 Devon Avenue, Salt Creek	1.955	1.810	1.710	2.231	1.855	1.410	1.752	2.052	1.795	0.913	1.548	
24 Wolf Road, Salt Creek	1.773	1.227	1.407	1.745	1.497	1.441	1.513	1.502	1.628	1.051	1.411	
109 Brookfield Avenue, Salt Creek	1.943	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	1.043	1.073	1.239	1.595	1.517	1.469	1.198	1.255	1.443	1.033	1.225	
77 Elmhurst Road, Higgins Creek	0.117	0.112	0.184	0.221	0.111	0.115	0.152	0.181	0.215	0.151	0.115	
78 Wille Road, Higgins Creek	0.864	0.508	0.578	0.671	1.058	0.988	0.525	0.592	0.551	0.393	0.726	
12 Lake-Cook Road, Buffalo Creek	0.120	0.075	0.222	0.235	0.150	0.156	0.158	0.125	0.154	0.258	0.203	
13 Lake-Cook Road, Des Plaines River	1.268	0.826	0.984	1.261	0.916	0.736	0.700	0.701	1.179	0.780	0.805	
17 Oakton Street, Des Plaines River	1.033	0.691	0.705	0.971	0.764	0.615	0.644	0.671	0.527	0.515	0.742	
19 Belmont Avenue, Des Plaines River	0.883	0.590	0.914	0.780	0.684	0.630	0.525	0.578	0.795	0.466	0.576	
20 Roosevelt Road, Des Plaines River	0.875	0.546	0.581	0.701	0.660	0.667	0.598	0.553	0.751	0.450	0.568	
22 Ogden Avenue, Des Plaines River	1.095	0.658	0.732	0.963	0.849	0.885	0.702	0.738	0.935	0.653	0.792	
23 Willow Springs Road, Des Plaines River	1.060	0.618	0.762	0.887	0.797	0.816	0.718	0.688	0.858	0.584	0.696	
29 Stephen Street, Des Plaines River	0.998	0.672	0.742	0.940	0.788	0.862	0.763	0.828	0.893	0.626	0.737	
91 Material Service Road, Des Plaines River	0.969	0.679	0.914	ND	ND	ND	ND	ND	ND	ND	ND	

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-57

SOLUBLE PHOSPHORUS MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
30 Lake-Cook Road, West Fork North Branch	ND	0.340	1.610	ND	ND	ND	2.010	1.847	2.065	0.938	2.006	
106 Dundee Road, West Fork North Branch Chicago River	ND	0.910	ND	ND	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	ND	0.448	ND	ND	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	ND	0.028	0.082	0.109	0.116	0.127	0.163	0.100	0.106	0.058	0.053	
104 Glenview Road, North Branch Chicago River	ND	0.530	ND	ND	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	ND	0.026	0.111	0.108	0.095	0.158	0.118	0.104	0.251	0.112	0.311	
105 Frontage Road, Skokie River	ND	0.633	ND	ND	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	ND	0.418	0.889	0.920	0.705	0.994	0.857	0.795	1.129	0.676	0.897	
96 Albany Avenue, North Branch Chicago River	ND	0.525	1.103	ND	ND	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	ND	0.053	0.044	0.098	0.103	0.038	0.271	0.058	0.011	0.073	0.015	
102 Oakton Street, North Shore Channel	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
16 Touhy Avenue, North Shore Channel	ND	0.928	0.989	1.066	1.058	0.955	0.872	0.687	0.933	0.741	0.647	
101 Foster Avenue, North Shore Channel	ND	1.168	ND	ND	ND	ND	ND	ND	ND	ND	ND	
37 Wilson Avenue, North Branch Chicago River	ND	0.830	0.904	1.160	0.977	0.888	0.801	0.738	0.913	0.709	0.761	
73 Diversy Parkway, North Branch Chicago River	ND	0.707	0.814	0.917	0.743	0.761	0.606	0.559	0.578	0.530	0.697	
46 Grand Avenue, North Branch Chicago River	ND	0.682	0.865	0.853	0.873	0.707	0.658	0.692	0.686	0.606	0.649	
74 Lake Shore Drive, Chicago River	ND	0.390	0.270	0.157	0.150	0.057	0.089	0.065	0.020	0.031	0.048	
100 Wells Street, Chicago River	ND	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	ND	0.594	0.730	0.646	0.501	0.345	0.273	0.270	0.298	0.388	0.303	
108 Loomis Street, South Branch Chicago River	ND	0.555	ND	ND	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	ND	0.490	ND	ND	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.703	0.492	0.423	0.426	0.289	0.278	0.457	0.331	0.390	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	0.537	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	0.646	0.672	0.459	0.378	0.402	0.320	0.348	0.421	0.283	0.451	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	0.618	0.834	0.754	0.737	0.636	0.528	0.634	0.707	0.433	0.482	
42 Route #3, Chicago Sanitary & Ship Canal	ND	0.646	0.571	0.478	0.502	0.512	0.418	0.451	0.864	0.400	0.409	
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.970	1.071	0.798	0.717	0.888	0.647	0.689	0.876	0.596	0.790	
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	0.846	1.156	ND	ND	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	ND	0.046	0.053	0.060	0.041	0.059	0.156	0.090	0.025	0.014	0.009	
50 Burnham Avenue, Wolf Lake	ND	0.032	0.040	0.064	0.041	0.063	0.075	0.047	0.029	0.035	0.032	
55 130th Street, Calumet River	ND	0.013	0.045	0.080	0.062	0.058	0.093	0.062	0.031	0.021	0.013	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	ND	0.155	0.121	0.191	0.329	0.222	0.258	0.127	0.201	0.219	0.448	
56 Indiana Avenue, Little Calumet River	ND	0.090	0.277	0.110	0.161	0.076	0.110	0.061	0.132	0.141	0.123	
76 Halsted Street, Little Calumet River	ND	1.372	2.923	2.684	1.533	1.276	1.033	1.457	1.338	1.103	1.503	
52 Wentworth Avenue, Little Calumet River	ND	0.240	0.384	0.398	0.296	0.313	0.312	0.269	0.346	0.371	0.328	
54 Joe Orr Road, Thorn Creek	ND	5.608	4.875	2.556	7.365	6.853	5.017	4.926	4.028	4.358	5.121	
97 170th Street, Thorn Creek	ND	1.620	ND	ND	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	ND	0.915	1.882	1.229	1.275	1.697	1.467	1.231	1.424	0.792	1.272	
58 Ashland Avenue, Calumet Sag Channel	ND	1.300	2.720	2.077	1.736	1.045	0.906	1.391	1.217	0.797	1.704	
59 Cicero Avenue, Calumet Sag Channel	ND	1.312	2.794	2.314	1.888	1.586	1.124	1.511	1.393	1.091	1.818	
43 Route #3, Calumet Sag Channel	ND	1.046	2.306	2.348	1.834	1.738	1.386	1.315	1.388	1.088	1.448	
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	ND	0.020	0.064	0.070	0.074	0.330	0.117	0.070	0.048	0.029	0.028	
63 Longmeadow Lane, West Branch Du Page River	ND	0.137	0.060	0.729	0.684	0.608	0.401	0.360	0.725	0.173	0.843	
89 Walnut Lane, West Branch Du Page River	ND	1.970	1.910	2.243	2.198	2.120	1.728	2.031	2.163	3.272	2.214	
64 Lake Street, West Branch Du Page River	ND	1.772	1.383	1.712	2.048	1.772	1.461	1.708	1.849	1.143	1.894	
79 Higgins Road, Salt Creek	ND	0.000	0.039	0.074	0.109	0.068	0.086	0.056	0.039	0.021	0.271	
80 Arlington Heights Road, Salt Creek	ND	1.265	1.488	1.843	1.751	1.227	1.294	1.743	1.748	0.800	1.254	
18 Devon Avenue, Salt Creek	ND	1.287	1.447	1.868	1.686	1.098	1.440	1.778	1.706	0.830	1.435	
24 Wolf Road, Salt Creek	ND	0.987	1.094	1.369	1.240	1.150	1.058	1.241	1.445	0.861	1.227	
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	ND	0.937	0.945	1.275	1.300	1.187	0.848	1.066	1.259	0.803	1.045	
77 Elmhurst Road, Higgins Creek	ND	0.026	0.044	0.071	0.073	0.104	0.078	0.068	0.047	0.068	0.012	
78 Wille Road, Higgins Creek	ND	0.265	0.385	0.506	0.823	0.713	0.363	0.480	0.495	0.328	0.540	
12 Lake-Cook Road, Buffalo Creek	ND	0.030	0.037	0.081	0.062	0.075	0.083	0.066	0.048	0.113	0.051	
13 Lake-Cook Road, Des Plaines River	ND	0.412	0.716	1.047	0.736	0.575	0.552	0.603	1.066	0.492	0.690	
17 Oakton Street, Des Plaines River	ND	0.352	0.480	0.741	0.563	0.440	0.458	0.505	0.440	0.390	0.578	
19 Belmont Avenue, Des Plaines River	ND	0.315	0.420	0.609	0.503	0.448	0.387	0.420	0.622	0.331	0.438	
20 Roosevelt Road, Des Plaines River	ND	0.313	0.415	0.562	0.523	0.462	0.387	0.407	0.615	0.308	0.421	
22 Ogden Avenue, Des Plaines River	ND	0.443	0.557	0.769	0.688	0.634	0.459	0.596	0.759	0.469	0.596	
23 Willow Springs Road, Des Plaines River	ND	0.443	0.544	0.679	0.629	0.621	0.459	0.511	0.671	0.432	0.515	
29 Stephen Street, Des Plaines River	ND	0.488	0.575	0.664	0.588	0.641	0.484	0.644	0.698	0.438	0.511	
91 Material Service Road, Des Plaines River	ND	0.380	0.711	ND	ND	ND	ND	ND	ND	ND	ND	

ND = NO data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-58

TOTAL CYANIDE MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.006	0.009	ND	ND	ND	0.007	0.008	0.011	0.006	0.012
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.001	0.002	0.002	0.002	0.002	0.006	0.002	0.004	0.003	0.002
104 Glenview Road, North Branch Chicago River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.002	0.002	0.003	0.003	0.001	0.002	0.001	0.002	0.003	0.003	0.004
105 Frontage Road, Skokie River	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.008	0.004	0.006	0.005	0.004	0.005	0.004	0.003	0.005	0.005	0.005
96 Albany Avenue, North Branch Chicago River	0.002	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.001
102 Oakton Street, North Shore Channel	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.004	0.006	0.006	0.005	0.006	0.007	0.006	0.004	0.006	0.006	0.006
101 Foster Avenue, North Shore Channel	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.004	0.005	0.006	0.007	0.006	0.005	0.005	0.005	0.006	0.006	0.006
73 Diversey Parkway, North Branch Chicago River	0.003	0.006	0.012	0.008	0.005	0.008	0.005	0.004	0.006	0.007	0.006
46 Grand Avenue, North Branch Chicago River	0.004	0.005	0.006	0.007	0.007	0.005	0.005	0.004	0.008	0.009	0.007
74 Lake Shore Drive, Chicago River	0.001	0.002	0.003	0.001	0.002	0.000	0.001	0.000	0.002	0.002	0.001
100 Wells Street, Chicago River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.004	0.004	0.005	0.005	0.004	0.003	0.002	0.002	0.004	0.006	0.006
108 Loomis Street, South Branch Chicago River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.005	0.005	0.004	0.004	0.004	0.003	0.004	0.005	0.005
107 Western Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	0.004	0.005	0.004	0.003	0.004	0.003	0.004	0.006	0.004
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	0.006	0.007	0.006	0.007	0.006	0.007	0.005	0.008	0.008	0.007
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.006	0.007	0.007	0.007	0.009	0.007	0.008	0.008	0.008	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	0.005	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.001	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.003	0.002	0.002
50 Burnham Avenue, Wolf Lake	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.002	0.002
55 130th Street, Calumet River	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.003	0.003	0.002
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.006	0.010	0.009	0.008	0.011	0.010	0.009	0.013	0.010	0.009	0.013
56 Indiana Avenue, Little Calumet River	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.005	0.005	0.004
76 Halsted Street, Little Calumet River	0.005	0.007	0.010	0.010	0.008	0.006	0.013	0.013	0.014	0.019	0.016
52 Wentworth Avenue, Little Calumet River	0.006	0.009	0.061	0.040	0.027	0.005	0.015	0.014	0.015	0.009	0.011
54 Joe Orr Road, Thorn Creek	0.006	0.005	0.008	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.010
97 170th Street, Thorn Creek	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.005	0.005	0.008	0.009	0.008	0.005	0.007	0.009	0.009	0.007	0.006
58 Ashland Avenue, Calumet Sag Channel	0.005	0.007	0.009	0.009	0.008	0.006	0.010	0.012	0.011	0.010	0.014
59 Cicero Avenue, Calumet Sag Channel	0.005	0.006	0.008	0.008	0.009	0.006	0.009	0.013	0.012	0.011	0.015
43 Route 83, Calumet Sag Channel	0.004	0.006	0.007	0.007	0.009	0.006	0.008	0.010	0.010	0.010	0.012
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002	0.003	0.002
63 Longmeadow Lane, West Branch Du Page River	ND	0.004	0.002	0.007	0.005	0.004	0.005	0.006	0.007	0.008	0.007
89 Walnut Lane, West Branch Du Page River	0.007	0.010	0.008	0.012	0.011	0.010	0.008	0.011	0.011	0.008	0.011
64 Lake Street, West Branch Du Page River	0.005	0.008	0.007	0.009	0.009	0.008	0.008	0.010	0.011	0.010	0.010
79 Higgins Road, Salt Creek	0.002	0.003	0.002	0.004	0.002	0.002	0.003	0.004	0.002	0.005	0.003
80 Arlington Heights Road, Salt Creek	0.005	0.008	0.007	0.010	0.009	0.006	0.007	0.007	0.007	0.006	0.007
18 Devon Avenue, Salt Creek	0.005	0.008	0.006	0.009	0.008	0.006	0.007	0.007	0.007	0.007	0.007
24 Wolf Road, Salt Creek	0.004	0.006	0.004	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.008
109 Brookfield Avenue, Salt Creek	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.006	0.005	0.004	0.006	0.006	0.006	0.005	0.006	0.006	0.006	0.007
77 Elmhurst Road, Higgins Creek	0.004	0.003	0.004	0.003	0.003	0.003	0.004	0.003	0.004	0.005	0.003
78 Wille Road, Higgins Creek	0.005	0.007	0.006	0.011	0.008	0.008	0.006	0.008	0.010	0.007	0.010
12 Lake-Cook Road, Buffalo Creek	0.001	0.003	0.002	0.003	0.002	0.001	0.002	0.002	0.002	0.004	0.003
13 Lake-Cook Road, Des Plaines River	0.003	0.006	0.005	0.010	0.005	0.005	0.005	0.006	0.007	0.011	0.007
17 Oakton Street, Des Plaines River	0.003	0.005	0.004	0.009	0.005	0.004	0.005	0.006	0.003	0.006	0.009
19 Belmont Avenue, Des Plaines River	0.003	0.005	0.004	0.005	0.004	0.005	0.005	0.006	0.006	0.005	0.007
20 Roosevelt Road, Des Plaines River	0.004	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.006	0.005	0.008
22 Ogden Avenue, Des Plaines River	0.003	0.005	0.003	0.006	0.005	0.005	0.004	0.005	0.006	0.006	0.006
23 Willow Springs Road, Des Plaines River	0.003	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.008	0.005	0.006
29 Stephen Street, Des Plaines River	0.004	0.004	0.004	0.005	0.006	0.005	0.005	0.006	0.005	0.006	0.006
91 Material Service Road, Des Plaines River	0.004	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-59

WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.000	0.001	ND	ND	ND	0.001	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	ND	ND	ND	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	0.001	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.001	ND	ND	ND	ND	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	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.000	0.001	0.001	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.003	0.001	0.000	0.002	0.001	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.000	ND	ND	ND	ND	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	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	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	ND	ND	ND	ND
41 Harles Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
82 Lockport Treble, 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	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.000	0.001	0.001	0.000	0.000	0.000	0.001	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.001	0.002	0.003	0.001	0.001	0.003	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.001	0.009	0.008	0.004	0.001	0.004	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.002	0.001	0.001	0.001	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.002	0.003	0.001	0.001	0.002	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.002	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	0.002	0.001	0.001	0.001	0.002	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.001	0.001	0.002	0.001	0.001	0.001	0.002	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.003	0.002	0.001	0.002	0.001	0.002	0.001	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.001	0.001	0.000	0.002	0.000	0.001	0.001	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.002	0.001	0.002	0.002	0.001	0.002	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.002	0.001	0.001	0.001	0.001	0.001	0.002	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.001	0.001	0.001	0.005	0.001	0.002	0.001	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.000	0.004	0.000	0.001	0.001	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.001	0.001	0.000	0.006	0.000	0.000	0.001	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = NO DATA

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-60

FLUORIDE MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	<u>02</u>	<u>01</u>	<u>00</u>	<u>99</u>	<u>98</u>	<u>97</u>	<u>96</u>	<u>95</u>	<u>94</u>	<u>93</u>	<u>92</u>
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch		0.240	0.710	ND	ND	ND	0.572	0.609	0.820	0.470	0.626
106	Dundee Road, West Fork North Branch Chicago River	0.433	0.408	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.425	0.387	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.343	0.266	0.310	0.312	0.306	0.430	0.337	0.277	0.373	0.328	0.355
104	Glenview Road, North Branch Chicago River	0.617	0.464	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.354	0.247	0.315	0.373	0.286	0.391	0.342	0.311	0.359	0.355	0.340
105	Frontage Road, Skokie River	0.703	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.605	0.378	0.577	0.604	0.488	0.625	0.525	0.469	0.594	0.437	0.513
96	Albany Avenue, North Branch Chicago River	0.567	0.446	0.642	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.307	0.138	0.187	0.184	0.158	0.200	0.187	0.134	0.110	0.215	0.165
102	Oakton Street, North Shore Channel	0.512	0.238	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.749	0.694	0.812	0.781	0.778	0.705	0.760	0.562	0.767	0.570	0.625
101	Poster Avenue, North Shore Channel	0.745	0.722	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.693	0.623	0.779	0.758	0.748	0.728	0.725	0.604	0.683	0.709	0.620
73	Diversey Parkway, North Branch Chicago River	0.684	0.648	0.765	0.765	0.740	0.634	0.730	0.601	0.704	0.613	0.603
46	Grand Avenue, North Branch Chicago River	0.717	0.665	0.783	0.768	0.697	0.752	0.713	0.621	0.744	0.665	0.656
74	Lake Shore Drive, Chicago River	0.238	0.353	0.358	0.235	0.195	0.260	0.136	0.122	0.124	0.247	0.197
100	Wells Street, Chicago River	0.423	0.363	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.590	0.537	0.645	0.607	0.475	0.372	0.380	0.380	0.426	0.388	0.402
108	Loomis Street, South Branch Chicago River	0.581	0.543	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.565	0.595	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.667	0.537	0.468	0.456	0.427	0.408	0.526	0.423	0.412
107	Western Avenue, Chicago Sanitary & Ship Canal	0.532	0.538	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.578	0.471	0.617	0.513	0.434	0.437	0.448	0.401	0.478	0.446	0.417
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.743	0.633	0.781	0.743	0.705	0.701	0.667	0.594	0.691	0.592	0.623
42	Route 83, Chicago Sanitary & Ship Canal	0.809	0.715	0.806	0.778	0.742	0.726	0.724	0.635	0.726	0.647	0.658
48	Stephen Street, Chicago Sanitary & Ship Canal	0.809	0.752	0.799	0.729	0.697	0.742	0.682	0.633	0.750	0.650	0.648
82	Lockport Treblar, Chicago Sanitary & Ship Canal	ND	ND	0.914	0.865	0.791	0.725	0.744	0.789	0.765	0.699	0.627
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.802	0.751	0.810	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.188	0.144	0.148	0.135	0.216	0.187	0.136	0.125	0.153	0.236	0.174
50	Burnham Avenue, Wolf Lake	0.213	0.208	0.200	0.237	0.198	0.267	0.177	0.213	0.401	0.272	0.295
55	130th Street, Calumet River	0.248	0.247	0.230	0.301	0.243	0.238	0.199	0.207	0.223	0.343	0.272
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.873	0.783	0.823	0.711	0.845	0.940	0.927	0.935	0.851	0.697	0.760
56	Indiana Avenue, Little Calumet River	0.394	0.375	0.382	0.317	0.422	0.439	0.314	0.281	0.446	0.437	0.383
76	Halsted Street, Little Calumet River	0.633	0.730	0.891	0.759	0.760	0.790	0.752	0.756	0.798	0.713	0.815
52	Wentworth Avenue, Little Calumet River	12.390	4.096	4.255	1.980	1.061	1.534	1.146	1.507	1.912	1.009	0.579
54	Joe Orr Road, Thorn Creek	0.746	0.674	0.737	0.596	0.594	0.747	0.692	0.639	0.663	0.593	0.682
97	170th Street, Thorn Creek	1.613	0.520	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	2.865	1.627	1.609	0.722	0.730	0.784	0.628	0.747	0.772	0.563	0.547
58	Ashland Avenue, Calumet Sag Channel	1.188	0.828	0.935	0.631	0.750	0.810	0.799	0.685	0.705	0.600	0.752
59	Cicero Avenue, Calumet Sag Channel	0.935	0.935	0.916	0.647	0.737	0.678	0.715	0.715	0.733	0.667	0.722
43	Route 83, Calumet Sag Channel	0.925	0.805	0.827	0.650	0.652	0.726	0.681	0.596	0.681	0.609	0.642
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.234	0.257	0.171	0.192	0.191	0.237	0.185	0.190	0.165	0.197	0.222
63	Longmeadow Lane, West Branch Du Page River	ND	0.295	0.303	0.419	0.453	0.235	0.300	0.375	0.334	0.302	0.474
89	Walnut Lane, West Branch Du Page River	0.744	0.721	0.723	0.719	0.844	0.650	0.572	0.718	0.702	0.533	0.708
64	Lake Street, West Branch Du Page River	0.631	0.540	0.587	0.598	1.061	0.538	0.557	0.657	0.680	0.495	0.720
79	Higgins Road, Salt Creek	0.238	0.253	0.294	0.282	0.328	0.203	0.215	0.217	0.220	0.255	0.370
80	Arlington Heights Road, Salt Creek	0.602	0.573	0.643	0.595	0.851	0.617	0.576	0.597	0.538	0.354	0.491
18	Devon Avenue, Salt Creek	0.578	0.558	0.608	0.628	0.744	0.474	0.576	0.572	0.528	0.356	0.481
24	Wolf Road, Salt Creek	0.634	0.523	0.542	0.600	0.586	0.504	0.583	0.591	0.532	0.411	0.570
109	Brookfield Avenue, Salt Creek	0.698	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.447	0.499	0.486	0.607	0.753	0.531	0.551	0.600	0.520	0.416	0.522
77	Elmhurst Road, Higgins Creek	0.208	0.315	0.317	0.207	0.257	0.184	0.185	0.211	0.186	0.224	0.319
78	Wille Road, Higgins Creek	0.788	0.762	0.746	0.745	0.773	0.750	0.635	0.813	0.833	0.663	0.769
12	Lake-Cook Road, Buffalo Creek	0.224	0.252	0.259	0.207	0.346	0.180	0.199	0.189	0.182	0.279	0.288
13	Lake-Cook Road, Des Plaines River	0.508	0.393	0.402	0.458	0.560	0.450	0.466	0.427	0.530	0.355	0.428
17	Oakton Street, Des Plaines River	0.459	0.367	0.400	0.472	0.497	0.328	0.397	0.380	0.260	0.355	0.434
19	Belmont Avenue, Des Plaines River	0.302	0.425	0.459	0.506	0.563	0.384	0.435	0.465	0.507	0.371	0.453
20	Roosevelt Road, Des Plaines River	0.516	0.464	0.526	0.455	0.546	0.384	0.451	0.455	0.513	0.339	0.461
22	Ogden Avenue, Des Plaines River	0.541	0.408	0.410	0.514	0.524	0.418	0.446	0.483	0.502	0.363	0.488
23	Willow Springs Road, Des Plaines River	0.557	0.420	0.488	0.488	0.485	0.415	0.478	0.483	0.480	0.379	0.457
29	Stephen Street, Des Plaines River	0.516	0.386	0.486	0.514	0.543	0.429	0.461	0.525	0.498	0.391	0.446
91	Material Service Road, Des Plaines River	0.518	0.377	0.490	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-61

TOTAL ORGANIC CARBON MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	7.50	7.00	ND	ND	ND	10.75	8.56	8.00	16.56	11.33
106	Dundas Road, West Fork North Branch Chicago River	9.50	12.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	9.36	8.40	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	11.40	9.73	12.40	13.36	11.67	11.40	15.25	10.70	10.90	10.93	11.73
104	Glenview Road, North Branch Chicago River	8.00	8.10	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	10.60	9.36	12.30	11.27	13.83	12.80	13.75	10.89	11.00	9.83	10.82
105	Frontage Road, Skokie River	8.92	7.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	8.50	7.83	10.73	9.82	11.58	12.82	12.83	8.90	9.27	9.17	9.83
96	Albany Avenue, North Branch Chicago River	8.92	8.33	8.33	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	5.33	3.33	5.67	6.30	7.00	7.70	9.11	5.00	4.25	4.33	4.91
102	Oakton Street, North Shore Channel	7.27	4.20	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	8.83	8.00	10.58	9.92	9.08	14.00	11.92	8.17	8.73	8.18	9.25
101	Foster Avenue, North Shore Channel	8.67	7.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	9.17	7.75	10.17	9.08	9.25	11.92	13.00	8.25	8.08	9.25	10.17
73	Diversey Parkway, North Branch Chicago River	9.25	7.92	10.33	9.25	9.17	13.25	12.08	8.42	8.33	8.58	9.17
46	Grand Avenue, North Branch Chicago River	8.50	7.83	9.92	8.83	9.00	10.36	12.17	9.00	8.91	11.17	9.25
74	Lake Shore Drive, Chicago River	4.42	4.98	6.58	4.91	5.17	7.91	6.27	4.70	4.20	4.25	5.25
100	Wells Street, Chicago River	5.33	4.71	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	7.75	6.67	9.08	8.00	7.33	7.82	9.92	6.00	8.46	7.42	7.00
108	Loomis Street, South Branch Chicago River	7.00	6.22	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	8.17	8.50	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	12.78	8.00	7.83	10.67	10.50	7.00	6.75	7.33	7.75
107	Western Avenue, Chicago Sanitary & Ship Canal	7.58	6.90	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	7.50	6.58	8.58	7.25	10.33	9.45	10.67	7.00	6.82	7.17	7.42
41	Harless Avenue, Chicago Sanitary & Ship Canal	7.92	7.25	9.75	8.45	13.67	11.18	12.17	7.67	8.25	8.58	8.83
42	Route 83, Chicago Sanitary & Ship Canal	8.83	7.67	12.55	8.83	11.83	15.00	12.33	7.83	8.80	8.67	8.83
48	Stephen Street, Chicago Sanitary & Ship Canal	8.67	7.92	10.09	9.36	12.08	11.82	12.25	9.00	9.00	9.58	9.58
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Farabay, Chicago Sanitary & Ship Canal	8.26	7.59	9.62	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	3.75	3.25	6.67	4.00	4.39	7.32	6.67	4.91	4.36	4.33	5.00
50	Burnham Avenue, Wolf Lake	5.50	5.18	6.92	6.42	6.67	8.25	8.67	7.33	8.25	7.42	8.50
55	130th Street, Calumet River	4.92	4.73	6.27	5.61	5.61	7.43	6.87	5.45	5.00	5.58	6.25
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	11.36	9.90	14.18	12.18	11.17	18.25	19.45	14.31	15.33	13.33	15.42
56	Indiana Avenue, Little Calumet River	6.42	5.75	7.67	6.68	6.73	11.24	9.27	6.91	7.73	8.33	7.83
76	Halsted Street, Little Calumet River	8.33	7.50	10.92	9.26	9.13	13.52	13.75	9.42	9.92	10.00	10.92
52	Wentworth Avenue, Little Calumet River	10.73	10.18	12.82	11.64	11.75	18.25	15.44	11.10	11.00	11.42	12.75
54	Joe Orr Road, Thorn Creek	10.43	9.08	12.75	10.25	11.17	13.50	16.17	12.00	11.92	12.08	12.17
97	170th Street, Thorn Creek	9.17	9.10	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	9.00	9.10	12.73	11.09	10.08	13.42	14.44	10.55	11.00	10.91	12.25
58	Ashland Avenue, Calumet Sag Channel	8.75	8.25	11.58	9.42	8.67	14.47	11.94	9.64	9.33	9.75	11.25
59	Cicero Avenue, Calumet Sag Channel	8.67	8.17	11.50	9.74	10.00	13.38	12.75	11.08	10.42	10.25	11.33
43	Route 83, Calumet Sag Channel	8.25	8.25	17.25	9.37	9.65	12.29	11.88	11.08	10.00	10.00	10.75
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	9.22	8.82	12.29	8.70	9.90	10.88	13.73	11.40	10.27	10.82	10.91
63	Longmeadow Lane, West Branch Du Page River	ND	12.75	13.78	12.67	14.43	14.40	15.18	12.00	13.30	12.83	14.00
89	Walnut Lane, West Branch Du Page River	11.75	11.17	12.75	11.45	14.09	12.36	14.17	11.00	11.75	11.75	11.83
64	Lake Street, West Branch Du Page River	10.25	10.64	12.64	10.73	12.00	12.73	13.36	10.75	11.82	11.58	12.00
79	Higgins Road, Salt Creek	10.00	9.20	11.40	10.50	11.22	12.10	15.60	10.80	10.90	9.73	10.36
80	Arlington Heights Road, Salt Creek	10.50	9.83	10.67	9.82	11.00	12.27	13.58	10.50	9.90	9.92	10.58
18	Devon Avenue, Salt Creek	9.80	9.42	10.58	9.91	10.82	12.55	14.09	10.08	9.92	10.00	10.67
24	Wolf Road, Salt Creek	8.45	8.33	10.80	8.64	10.50	10.09	13.33	9.75	9.55	9.33	10.17
109	Brookfield Avenue, Salt Creek	8.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	9.67	8.50	10.10	8.27	10.00	9.90	12.67	9.42	9.55	8.83	10.18
77	Elmhurst Road, Higgins Creek	9.83	10.09	11.80	10.82	11.00	11.00	14.50	10.50	11.09	8.50	10.55
78	Wille Road, Higgins Creek	9.83	9.92	12.08	10.18	12.00	12.82	13.00	11.25	10.73	10.17	10.58
12	Lake-Cook Road, Buffalo Creek	12.29	9.55	11.90	10.00	12.30	12.20	15.17	11.92	11.10	11.67	11.50
13	Lake-Cook Road, Des Plaines River	9.25	8.67	11.17	9.73	11.00	12.80	13.33	11.67	10.44	10.50	12.00
17	Oakton Street, Des Plaines River	9.55	8.83	11.40	9.82	10.82	12.80	13.50	11.00	9.67	10.00	11.64
19	Belmont Avenue, Des Plaines River	9.67	8.92	11.10	9.55	11.18	11.73	14.00	10.75	10.83	10.00	11.92
20	Roosevelt Road, Des Plaines River	9.33	8.75	11.20	9.91	11.36	11.91	14.17	11.08	10.92	9.75	13.08
22	Ogden Avenue, Des Plaines River	9.25	8.50	10.80	9.73	10.82	12.36	14.23	10.50	10.18	9.83	11.08
23	Willow Springs Road, Des Plaines River	9.00	9.67	10.40	9.27	10.55	12.10	11.91	9.91	10.64	9.33	10.67
29	Stephen Street, Des Plaines River	9.00	9.25	9.60	9.09	11.36	13.45	13.58	10.55	10.45	9.58	10.42
91	Material Service Road, Des Plaines River	8.83	8.63	11.46	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-62

FECAL COLIFORM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Geometric Means (#/100 ml)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	2683	4000	ND	ND	ND	2228	2476	3098	3103	670
106 Dundee Road, West Fork North Branch Chicago River	1344	1782	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	704	854	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1143	767	1050	1697	1210	2139	1556	1815	2089	1799	1433
104 Glenview Road, North Branch Chicago River	904	1112	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	718	1750	1131	1919	1718	2903	2578	6993	8480	25862	5746
105 Frontage Road, Skokie River	357	490	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	924	1377	1484	1498	878	769	1851	1507	1083	1459	1329
96 Albany Avenue, North Branch Chicago River	1508	2517	4238	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	483	356	270	130	241	88	366	642	107	200	32
102 Oakton Street, North Shore Channel	1954	580	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	8349	4211	9424	7866	6963	10671	12203	11261	12771	7266	10352
101 Foster Avenue, North Shore Channel	10250	8703	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7358	5958	7677	7686	7000	7034	7007	10755	10780	7966	12231
73 Diversey Parkway, North Branch Chicago River	5813	3832	5539	4607	3796	4454	4773	5378	8197	8528	8180
46 Grand Avenue, North Branch Chicago River	1919	1840	1715	1522	1636	3288	1711	2413	2986	5927	3029
74 Lake Shore Drive, Chicago River	36	66	91	23	62	37	38	59	54	47	34
100 Wells Street, Chicago River	288	159	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	800	1622	1090	642	800	838	380	1491	1110	2188	1279
108 Loomis Street, South Branch Chicago River	253	325	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	548	1530	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	160	282	510	543	441	1444	369	1169	1307
107 Western Avenue, Chicago Sanitary & Ship Canal	180	393	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	245	303	154	327	352	245	481	1037	352	1053	1317
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3609	4126	5043	4970	5427	5730	5361	3750	3231	8150	5962
42 Route 83, Chicago Sanitary & Ship Canal	460	1580	1046	886	1300	1941	951	1815	1407	1520	1716
48 Stephen Street, Chicago Sanitary & Ship Canal	419	812	537	781	849	867	948	1160	1154	1197	2379
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	159	291	256	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	12	20	18	12	27	13	21	49	66	36	12
50 Burnham Avenue, Wolf Lake	13	32	24	15	13	18	9	13	18	15	16
55 130th Street, Calumet River	19	82	53	23	26	30	47	54	118	40	17
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	488	2056	3323	4100	4325	1849	3383	3551	2874	3904	2431
56 Indiana Avenue, Little Calumet River	89	364	124	55	130	78	167	120	192	265	75
76 Halsted Street, Little Calumet River	2024	2550	4774	3792	3747	2927	7302	4806	6861	7964	6254
52 Wentworth Avenue, Little Calumet River	976	2211	3501	1701	2033	1402	1242	1264	1416	4149	2452
54 Joe Orr Road, Thorn Creek	1083	1083	2617	2173	1132	6513	3287	3992	2555	3651	7213
97 170th Street, Thorn Creek	637	1197	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	576	1623	3088	5189	1724	2531	1683	1328	2040	3258	759
58 Ashland Avenue, Calumet Sag Channel	1157	3095	3170	2660	2220	4858	4189	6904	4932	5363	4224
59 Cicero Avenue, Calumet Sag Channel	471	1057	656	673	749	2165	2823	1964	3140	2911	2848
43 Route 83, Calumet Sag Channel	93	298	79	87	201	227	654	466	629	1054	437
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	113	129	948	146	136	355	388	776	410	417	125
63 Longmeadow Lane, West Branch Du Page River	ND	1075	2538	386	603	1624	6965	1113	1478	1575	445
89 Walnut Lane, West Branch Du Page River	1600	1273	1943	590	666	1816	7295	1903	2319	2612	518
64 Lake Street, West Branch Du Page River	1532	1739	1889	658	1083	1564	6738	1750	3409	3522	973
79 Higgins Road, Salt Creek	82	49	305	45	52	97	307	69	112	1041	138
80 Arlington Heights Road, Salt Creek	303	426	623	265	260	725	632	1050	552	490	640
18 Devon Avenue, Salt Creek	939	1140	807	687	1154	845	2137	1431	2030	1248	894
24 Wolf Road, Salt Creek	440	507	1109	468	1038	2552	2257	2166	1198	2655	705
109 Brookfield Avenue, Salt Creek	2056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	782	599	1459	1320	653	1211	2706	1070	1282	7453	1341
77 Elmhurst Road, Higgins Creek	2395	598	636	369	267	498	2404	1333	1016	795	120
78 Wille Road, Higgins Creek	475	255	536	223	181	489	1019	399	804	858	100
12 Lake-Cook Road, Buffalo Creek	485	287	279	230	186	504	722	402	718	301	97
13 Lake-Cook Road, Des Plaines River	284	269	440	350	392	735	945	698	637	780	82
17 Oakton Street, Des Plaines River	345	492	915	765	360	876	1652	613	894	1377	208
19 Belmont Avenue, Des Plaines River	709	440	734	1210	574	1780	4059	3442	2511	3047	963
20 Roosevelt Road, Des Plaines River	913	422	790	1224	725	1979	3175	3101	1762	5012	1178
22 Ogden Avenue, Des Plaines River	960	519	1121	609	538	1722	4029	1666	848	5337	1162
23 Willow Springs Road, Des Plaines River	351	232	835	367	423	533	1020	458	696	2856	678
29 Stephen Street, Des Plaines River	276	275	528	270	241	921	405	305	325	2006	335
91 Material Service Road, Des Plaines River	122	367	295	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-63

ESCHERICHIA COLI MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Geometric Means (#/100 ml)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dunder Road, West Fork North Branch Chicago River	ND	1232	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	506	541	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	429	467	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	254	629	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	581	905	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	387	634	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	534	812	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	1553	9471	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	4382	139	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	1409	217	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	9539	861	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	14164	8842	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	9158	3387	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	6747	2627	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	2128	1123	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	20	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	307	175	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	565	417	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	176	183	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	173	810	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	342	77	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	224	67	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2925	3795	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	715	2345	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	530	922	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebey, Chicago Sanitary & Ship Canal	177	69	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	12	9	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	14	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	449	220	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	101	228	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	1815	3240	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	846	3688	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	721	1339	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	529	2237	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	615	1622	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	690	2661	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	500	271	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	75	145	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	82	251	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	1259	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	1366	395	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	1150	1102	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	61	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	209	294	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	1146	3950	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	336	30	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	330	375	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	2097	687	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	425	71	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	101	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	569	163	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	553	185	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	1018	202	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	903	419	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	837	515	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	506	253	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	641	273	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	90	644	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-64

TOTAL CALCIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	106.6	80.3	ND	ND	ND	71.0	61.3	127.0	82.1	74.8
106 Dundee Road, West Fork North Branch Chicago River	79.0	79.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	72.8	71.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	71.9	74.2	66.0	69.1	71.3	65.5	73.1	62.6	76.6	70.6	75.6
104 Glenview Road, North Branch Chicago River	69.0	68.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	73.4	79.4	73.1	70.0	82.2	76.6	83.8	64.9	79.8	79.2	79.5
105 Frontage Road, Skokie River	67.7	66.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	70.0	70.6	63.8	64.7	69.0	70.2	71.5	62.2	72.8	65.5	74.8
96 Albany Avenue, North Branch Chicago River	69.2	72.8	56.6	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	43.6	37.7	43.4	43.4	45.1	42.6	48.2	39.6	39.0	39.3	37.5
102 Oakton Street, North Shore Channel	51.9	42.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	58.5	61.8	52.9	56.5	58.7	55.3	56.0	55.7	59.0	55.2	53.1
101 Foster Avenue, North Shore Channel	58.8	57.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	60.9	63.9	55.6	57.8	62.8	58.6	59.8	58.4	60.6	58.9	55.8
73 Diversey Parkway, North Branch Chicago River	61.7	65.3	54.9	58.5	62.5	58.2	61.1	58.0	61.5	57.6	57.4
46 Grand Avenue, North Branch Chicago River	60.2	64.3	55.4	56.5	61.9	57.4	58.2	62.2	61.3	55.9	57.8
74 Lake Shore Drive, Chicago River	43.1	46.1	44.2	39.9	41.1	39.3	40.7	37.2	39.8	37.1	37.5
100 Wells Street, Chicago River	49.3	49.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	57.3	58.4	53.3	55.7	54.3	48.5	52.1	45.2	50.2	48.8	47.6
108 Loomis Street, South Branch Chicago River	56.8	51.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	56.7	58.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	53.0	56.5	55.0	51.7	52.4	44.8	53.8	50.5	48.4
107 Western Avenue, Chicago Sanitary & Ship Canal	57.8	56.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	59.9	55.7	53.3	54.4	52.8	52.6	50.7	48.5	54.6	49.8	47.2
41 Harlem Avenue, Chicago Sanitary & Ship Canal	57.3	59.6	54.3	56.8	56.1	56.0	54.0	53.3	59.3	50.2	55.7
42 Route 83, Chicago Sanitary & Ship Canal	58.7	59.8	53.6	54.9	56.1	56.9	56.6	54.3	63.0	55.2	53.4
48 Stephen Street, Chicago Sanitary & Ship Canal	61.6	63.4	58.5	57.4	57.8	61.5	60.2	57.0	63.7	59.0	58.6
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	65.2	66.5	84.8	68.6
92 Lockport Forebay, Chicago Sanitary & Ship Canal	62.6	63.8	57.3	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	41.1	40.2	39.7	39.5	39.0	38.6	40.7	38.9	41.1	37.8	35.1
50 Burnham Avenue, Wolf Lake	35.9	34.5	34.3	32.5	35.8	38.2	37.3	33.9	42.8	35.5	38.0
55 130th Street, Calumet River	47.2	48.8	44.9	43.4	43.9	44.8	45.7	43.9	45.8	46.1	44.4
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	79.6	85.6	73.3	71.0	73.4	75.0	96.7	84.1	88.0	82.8	86.4
56 Indiana Avenue, Little Calumet River	58.8	52.5	49.7	50.4	54.2	55.3	53.9	52.2	57.2	62.1	52.4
76 Halsted Street, Little Calumet River	64.8	71.1	63.6	62.1	63.7	66.8	70.3	68.8	71.7	73.7	69.2
92 Wentworth Avenue, Little Calumet River	94.5	82.8	85.9	75.0	80.5	88.5	97.3	82.0	101.1	90.8	103.8
54 Joe Orr Road, Thorn Creek	85.5	85.5	72.8	75.6	76.9	80.0	84.1	81.3	87.8	84.0	82.8
97 170th Street, Thorn Creek	100.8	88.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	86.5	79.0	84.5	75.2	72.8	81.9	91.1	86.5	89.2	81.4	95.5
58 Ashland Avenue, Calumet Sag Channel	73.7	76.2	67.1	64.0	61.0	68.7	71.3	70.9	70.9	74.0	70.7
59 Cicero Avenue, Calumet Sag Channel	68.2	72.7	68.1	65.2	66.6	68.8	73.1	73.8	69.2	75.1	74.0
43 Route 83, Calumet Sag Channel	69.8	72.5	70.4	66.1	65.7	70.5	72.1	70.6	73.2	75.8	71.8
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	77.0	78.0	64.8	74.1	80.4	70.6	78.2	79.4	80.5	69.8	80.9
63 Longmeadow Lane, West Branch Du Page River	ND	99.6	63.8	76.9	76.9	79.3	65.6	84.4	76.8	74.6	83.2
89 Walnut Lane, West Branch Du Page River	63.1	67.8	59.3	61.9	61.2	60.0	59.9	67.3	69.4	67.0	67.3
64 Lake Street, West Branch Du Page River	65.0	69.3	59.9	60.9	65.3	63.8	63.1	68.1	69.3	63.7	69.3
79 Higgins Road, Salt Creek	67.5	79.3	65.9	60.0	69.6	65.1	70.8	74.5	77.7	68.6	76.8
80 Arlington Heights Road, Salt Creek	68.7	69.2	59.4	58.4	63.1	63.7	67.6	68.8	69.5	63.8	69.1
18 Devon Avenue, Salt Creek	68.2	68.9	58.8	60.1	63.7	67.2	66.1	68.3	66.8	62.8	69.0
24 Wolf Road, Salt Creek	73.7	75.3	67.7	66.9	85.3	69.0	77.9	76.8	76.5	73.0	80.8
109 Brookfield Avenue, Salt Creek	58.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	92.5	80.7	65.5	65.1	75.8	68.0	75.3	76.8	74.5	66.5	82.3
77 Elmhurst Road, Higgins Creek	63.2	79.6	62.4	67.5	79.4	66.5	68.8	75.4	74.4	61.6	80.2
78 Wille Road, Higgins Creek	74.4	80.9	67.6	72.3	80.1	73.6	74.3	74.2	70.9	70.7	79.6
12 Lake-Cook Road, Buffalo Creek	83.1	81.7	71.3	70.5	75.2	73.5	75.5	82.1	86.8	76.2	82.7
13 Lake-Cook Road, Des Plaines River	76.8	76.5	67.3	60.5	73.9	70.7	75.5	78.3	83.3	69.5	77.8
17 Oakton Street, Des Plaines River	75.6	81.1	67.1	63.7	76.4	70.0	77.1	75.3	70.3	67.2	76.8
19 Belmont Avenue, Des Plaines River	74.7	77.9	65.5	62.1	73.4	71.4	75.3	79.5	140.5	65.4	79.1
20 Roosevelt Road, Des Plaines River	74.7	75.4	64.2	61.5	73.6	72.0	76.3	76.7	75.0	64.5	79.0
22 Ogden Avenue, Des Plaines River	73.8	75.4	65.2	63.6	74.1	70.8	76.0	79.3	73.2	65.1	75.9
23 Willow Springs Road, Des Plaines River	70.8	75.5	66.0	62.6	74.2	70.9	76.0	76.5	70.6	65.2	78.8
29 Stephen Street, Des Plaines River	76.6	76.6	67.2	63.1	75.1	75.3	77.3	75.4	73.9	70.7	79.5
91 Material Service Road, Des Plaines River	74.9	73.0	69.3	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-65

SOLUBLE CALCIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	73.297	70.330	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	66.160	66.061	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	65.896	65.622	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	63.709	62.993	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	69.844	73.849	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	62.046	61.846	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	63.101	61.104	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	64.680	63.309	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	39.534	34.710	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	47.432	39.658	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	54.804	52.707	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	54.386	53.508	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Wilson Avenue, North Branch Chicago River	55.787	55.577	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversay Parkway, North Branch Chicago River	55.074	56.383	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	55.054	56.536	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	40.201	41.389	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	43.907	46.357	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	53.291	48.880	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	52.901	48.551	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	50.928	48.612	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	53.003	47.943	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	52.535	48.892	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	52.444	50.687	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	54.094	51.636	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	55.817	56.738	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	56.448	56.956	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	36.400	35.431	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	30.398	28.423	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	42.443	43.045	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	75.513	69.188	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	51.738	48.476	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	60.140	63.145	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	87.155	70.142	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	79.067	74.132	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	85.754	74.735	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	80.203	67.749	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	63.358	62.910	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	62.278	62.558	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	60.809	63.986	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	72.104	66.946	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	84.637	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	58.204	58.793	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	60.275	62.092	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	59.000	72.061	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	63.759	59.974	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	63.946	61.787	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	69.631	66.212	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	55.387	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	64.870	66.051	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	57.127	64.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	70.495	76.114	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	76.223	73.306	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	70.209	68.781	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	68.729	69.102	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	68.468	67.848	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	69.751	68.063	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	69.187	66.235	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	66.856	66.617	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	70.360	67.287	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	70.366	64.557	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-66

TOTAL MAGNESIUM MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	46.1	32.8	ND	ND	ND	29.0	24.9	46.0	44.1	32.4
106	Dundas Road, West Fork North Branch Chicago River	34.0	17.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	30.5	31.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	33.0	33.9	30.0	31.6	33.3	30.8	33.5	28.1	29.3	30.8	34.5
104	Glenview Road, North Branch Chicago River	29.6	31.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	33.5	35.4	32.8	31.4	37.8	35.2	39.3	26.6	32.4	36.8	36.5
105	Frontage Road, Skokie River	29.2	30.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	29.8	31.8	27.9	27.8	31.9	31.7	30.7	26.7	27.9	27.4	33.7
96	Albany Avenue, North Branch Chicago River	29.3	31.4	23.2	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	15.2	12.2	15.7	15.4	14.9	14.4	15.9	13.6	11.3	12.0	12.2
102	Oakton Street, North Shore Channel	17.9	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	21.2	23.2	19.3	19.9	21.8	20.3	19.8	19.2	18.3	19.3	17.8
101	Poster Avenue, North Shore Channel	21.3	21.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	22.8	25.1	21.0	21.5	24.9	22.3	22.0	20.9	19.6	21.4	20.3
73	Diversey Parkway, North Branch Chicago River	23.1	25.6	20.8	21.6	24.4	21.7	22.5	20.8	19.5	20.5	21.2
46	Grand Avenue, North Branch Chicago River	22.5	24.8	20.9	20.9	24.2	21.5	21.2	22.1	19.4	20.5	19.6
74	Lake Shore Drive, Chicago River	14.7	16.1	15.7	13.4	14.3	12.9	13.6	11.8	11.7	12.2	12.2
100	Wells Street, Chicago River	17.4	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	21.1	22.2	19.4	20.5	20.7	17.4	18.3	15.8	14.0	17.8	15.8
108	Loomis Street, South Branch Chicago River	21.0	19.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	20.6	21.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	20.0	21.3	21.4	18.5	18.7	16.0	16.5	18.5	16.8
107	Western Avenue, Chicago Sanitary & Ship Canal	21.4	21.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	21.9	21.3	19.7	20.3	20.0	18.7	17.8	16.8	16.5	18.3	16.5
41	Harlem Avenue, Chicago Sanitary & Ship Canal	21.1	23.1	20.1	21.0	21.8	20.1	19.3	18.7	17.5	18.6	18.8
42	Route 83, Chicago Sanitary & Ship Canal	21.8	23.0	19.8	20.2	21.5	20.4	20.1	19.0	19.8	19.9	18.4
48	Stephen Street, Chicago Sanitary & Ship Canal	22.9	24.6	21.9	21.2	22.4	22.6	21.6	19.7	20.8	23.3	20.4
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	24.8	25.1	27.1	21.5
92	Lockport Forebay, Chicago Sanitary & Ship Canal	23.0	24.9	21.8	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	13.2	13.1	13.1	13.4	13.4	12.9	13.2	12.1	12.1	11.9	11.4
50	Burnham Avenue, Wolf Lake	14.4	12.6	13.0	13.2	13.3	12.9	13.0	11.6	13.0	11.9	12.3
55	130th Street, Calumet River	15.9	16.8	15.5	15.0	14.9	15.4	14.6	13.5	13.5	15.8	14.6
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	67.1	57.1	57.7	54.5	59.8	51.2	69.4	77.3	80.8	52.6	55.3
56	Indiana Avenue, Little Calumet River	23.8	20.1	22.3	21.6	27.8	26.5	24.0	23.1	28.0	29.4	22.4
76	Halsted Street, Little Calumet River	23.0	26.5	23.4	22.4	25.7	25.6	24.0	23.5	25.0	26.8	23.8
52	Wentworth Avenue, Little Calumet River	38.4	33.6	35.3	40.1	34.0	36.8	38.2	32.0	38.5	36.2	42.2
54	Joe Orr Road, Thorn Creek	38.4	39.3	34.2	36.3	36.0	36.8	38.2	36.5	35.8	36.3	37.0
97	170th Street, Thorn Creek	49.1	41.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	37.3	35.1	38.8	33.8	32.2	36.5	40.1	36.0	36.0	33.1	41.6
58	Ashland Avenue, Calumet Sag Channel	27.9	28.3	26.0	24.5	24.3	26.5	25.9	25.0	26.6	29.1	25.3
59	Cicero Avenue, Calumet Sag Channel	25.4	27.7	26.4	24.8	26.8	26.8	26.5	25.8	25.3	28.9	27.0
43	Route 83, Calumet Sag Channel	26.0	27.8	26.9	25.4	26.9	28.0	26.4	24.6	26.8	28.8	27.4
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	34.6	36.7	31.3	36.5	37.9	31.8	35.0	35.3	32.0	30.1	37.4
63	Longmeadow Lane, West Branch Du Page River	ND	41.5	24.1	51.0	31.1	30.9	23.3	31.8	25.7	25.8	33.0
89	Walnut Lane, West Branch Du Page River	23.9	26.8	23.7	24.7	23.2	23.3	22.2	24.9	22.1	24.8	26.3
64	Lake Street, West Branch Du Page River	24.8	27.8	23.6	24.0	25.2	25.6	23.5	25.5	22.1	23.2	26.5
79	Higgins Road, Salt Creek	31.2	36.7	28.9	27.8	30.6	28.9	30.1	31.7	29.5	27.8	33.2
80	Arlington Heights Road, Salt Creek	27.0	28.6	24.1	23.5	25.1	26.1	26.6	26.1	24.2	24.3	27.3
18	Devon Avenue, Salt Creek	26.6	28.5	23.6	24.1	25.8	27.7	25.8	25.8	22.9	24.7	28.1
24	Wolf Road, Salt Creek	30.1	32.5	28.3	28.7	34.2	28.8	30.9	29.9	26.2	28.8	31.9
109	Brookfield Avenue, Salt Creek	24.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	37.4	34.6	27.7	28.0	32.0	29.2	29.9	30.8	24.5	26.5	33.1
77	Elmhurst Road, Higgins Creek	22.5	32.5	22.9	28.5	33.7	26.8	26.8	30.9	22.5	23.6	31.3
78	Wille Road, Higgins Creek	27.9	32.6	25.8	28.2	29.5	28.6	28.7	27.8	21.8	26.8	28.8
12	Lake-Cook Road, Buffalo Creek	39.0	38.3	33.2	34.5	34.4	34.9	34.0	37.9	33.9	34.2	38.3
13	Lake-Cook Road, Des Plaines River	35.1	36.1	31.6	27.7	33.4	32.8	34.0	35.2	31.6	30.7	36.7
17	Oakton Street, Des Plaines River	33.9	37.7	30.7	28.6	34.8	32.4	33.9	34.1	27.0	30.3	34.9
19	Belmont Avenue, Des Plaines River	33.0	35.8	29.7	27.6	33.1	32.1	32.7	33.8	53.3	28.3	34.1
20	Roosevelt Road, Des Plaines River	33.0	35.0	29.3	27.6	34.2	32.3	33.3	33.1	27.3	27.4	34.5
22	Ogden Avenue, Des Plaines River	31.6	33.8	29.1	28.4	32.7	31.0	32.8	33.3	25.8	27.8	33.4
23	Willow Springs Road, Des Plaines River	31.0	34.4	29.7	28.3	33.4	32.0	33.0	33.5	25.8	27.5	33.8
29	Stephen Street, Des Plaines River	32.7	35.7	30.0	28.0	33.8	33.3	32.9	31.4	27.0	29.7	34.5
91	Material Service Road, Des Plaines River	32.5	32.8	31.0	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-67

SOLUBLE MAGNESIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundas Road, West Fork North Branch Chicago River	31.806	33.968	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	27.803	30.760	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	30.563	30.811	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	27.786	29.426	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	31.043	31.471	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	27.197	28.810	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	27.045	27.183	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	27.292	28.821	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	13.808	11.347	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	16.440	14.562	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	19.910	19.810	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	19.738	20.126	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.937	21.664	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	20.408	22.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	20.348	21.897	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	13.681	14.318	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	15.518	17.089	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	19.793	18.370	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	19.672	17.922	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.525	17.875	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	19.755	18.084	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.554	18.300	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.308	19.211	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	19.972	19.807	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	20.795	21.672	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	20.888	22.310	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	11.759	11.443	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	12.554	11.164	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	14.487	15.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	54.465	49.388	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	21.214	19.064	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	21.544	23.440	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	35.508	29.515	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	35.855	35.167	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	42.594	36.499	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	34.655	30.679	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	24.212	23.903	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	23.342	24.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	23.345	24.855	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	32.503	32.337	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	34.760	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	22.185	23.670	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	22.999	24.462	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	27.437	33.993	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	25.495	24.481	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	25.132	25.260	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	28.552	29.114	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	22.932	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	33.616	28.679	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	20.150	26.287	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	26.055	30.449	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	36.056	34.821	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	32.297	32.482	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	31.422	32.967	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	30.224	31.376	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	30.855	31.823	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	29.947	30.234	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	29.502	30.715	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	30.183	30.490	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	30.827	29.331	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-68

HARDNESS MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Means (mg/L)										
		No. Name	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	456	335	ND	ND	ND	297	256	507	387	320
106	Dundee Road, West Fork North Branch Chicago River	337	354	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	307	307	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	316	325	288	303	315	290	321	272	312	303	331
104	Glenview Road, North Branch Chicago River	294	301	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	326	344	318	304	361	336	371	272	333	349	349
105	Frontage Road, Skokie River	289	291	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	297	307	274	276	304	306	305	265	297	276	325
96	Albany Avenue, North Branch Chicago River	293	311	237	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	171	144	173	172	174	166	186	155	144	147	144
102	Oakton Street, North Shore Channel	203	166	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	233	250	211	223	236	221	222	218	223	217	206
101	Foster Avenue, North Shore Channel	235	231	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	246	263	225	233	260	238	240	232	232	235	223
73	Diversey Parkway, North Branch Chicago River	249	268	223	235	257	234	245	230	234	228	231
46	Grand Avenue, North Branch Chicago River	243	263	224	227	254	232	232	247	233	224	225
74	Lake Shore Drive, Chicago River	168	182	175	155	162	151	158	142	148	143	144
100	Wells Street, Chicago River	195	198	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	230	237	213	223	221	192	205	178	183	195	184
108	Loomis Street, South Branch Chicago River	228	207	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	226	234	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	214	229	226	205	208	178	202	202	190
107	Western Avenue, Chicago Sanitary & Ship Canal	233	228	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	240	227	214	219	214	208	200	190	204	200	186
41	Harlem Avenue, Chicago Sanitary & Ship Canal	230	244	218	228	230	223	214	210	220	202	217
42	Route 83, Chicago Sanitary & Ship Canal	236	244	215	220	229	226	224	214	239	220	209
48	Stephen Street, Chicago Sanitary & Ship Canal	248	260	236	230	237	247	239	223	245	243	230
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	265	269	323
92	Lockport Forebay, Chicago Sanitary & Ship Canal	251	262	233	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	157	154	153	154	153	150	156	147	152	143	135
50	Burnham Avenue, Wolf Lake	149	138	139	136	144	148	147	132	160	138	145
55	130th Street, Calumet River	183	191	176	170	171	175	174	165	170	180	171
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	475	449	421	402	430	398	527	528	553	423	443
56	Indians Avenue, Little Calumet River	244	214	216	215	250	247	233	225	258	276	223
76	Halsted Street, Little Calumet River	256	287	255	247	265	272	274	269	282	294	271
52	Wentworth Avenue, Little Calumet River	394	345	360	352	341	372	400	337	411	376	433
54	Joe Orr Road, Thorn Creek	371	375	323	338	340	351	367	353	366	359	359
97	170th Street, Thorn Creek	454	391	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	370	342	371	327	314	355	393	364	371	339	410
58	Ashland Avenue, Calumet Sag Channel	299	307	275	261	252	281	285	280	287	305	281
59	Cicero Avenue, Calumet Sag Channel	275	296	279	265	276	282	292	291	277	307	296
43	Route 83, Calumet Sag Channel	282	295	286	270	275	291	289	277	293	308	292
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	335	346	291	335	357	307	339	344	333	298	356
63	Longmeadow Lane, West Branch Du Page River	ND	419	258	402	320	325	260	342	298	293	344
89	Walnut Lane, West Branch Du Page River	256	280	246	256	248	246	241	271	264	269	277
64	Lake Street, West Branch Du Page River	264	287	247	251	267	265	254	275	264	254	282
79	Higgins Road, Salt Creek	297	349	284	264	300	282	301	317	315	286	328
80	Arlington Heights Road, Salt Creek	283	290	248	242	261	266	278	279	273	259	285
18	Devon Avenue, Salt Creek	280	289	244	249	265	282	271	277	261	258	288
24	Wolf Road, Salt Creek	308	322	286	285	354	291	322	315	299	296	333
109	Brookfield Avenue, Salt Creek	245	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	385	344	277	278	321	290	311	318	287	275	342
77	Elmhurst Road, Higgins Creek	250	332	250	286	337	276	282	316	278	251	329
78	Wille Road, Higgins Creek	301	336	275	297	321	301	303	300	267	287	317
12	Lake-Cook Road, Buffalo Creek	368	362	315	318	329	327	329	361	356	331	364
13	Lake-Cook Road, Des Plaines River	336	340	298	265	322	312	329	340	338	300	345
17	Oakton Street, Des Plaines River	328	358	294	277	334	308	332	328	287	293	336
19	Belmont Avenue, Des Plaines River	322	342	286	269	320	310	323	318	270	280	338
20	Roosevelt Road, Des Plaines River	323	333	281	267	324	313	328	328	299	274	339
22	Ogden Avenue, Des Plaines River	314	327	282	276	320	304	325	335	289	277	327
23	Willow Springs Road, Des Plaines River	305	330	287	273	323	309	326	329	283	276	336
29	Stephen Street, Des Plaines River	326	338	291	273	325	325	329	318	296	299	341
91	Material Service Road, Des Plaines River	321	317	301	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-69

GROSS ALPHA RADIOACTIVITY MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (pCi/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93
106 Dundee Road, West Fork North Branch Chicago River	4.49	4.77	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.41	4.67	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	3.82	6.05	ND	ND	ND	ND	ND	ND	ND	ND	1.27
104 Glenview Road, North Branch Chicago River	3.72	4.57	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	3.78	4.86	ND	ND	ND	ND	ND	ND	ND	ND	0.98
105 Frontage Road, Skokie River	3.79	4.53	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	4.15	4.88	ND	ND	ND	ND	ND	ND	ND	ND	0.86
96 Albany Avenue, North Branch Chicago River	4.39	4.71	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.40	3.45	4.23	3.40	ND	2.44	3.55	0.20	0.05	0.24	0.17
102 Oakton Street, North Shore Channel	3.64	4.03	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	3.72	4.29	4.21	3.49	ND	3.09	3.13	0.28	0.29	0.25	0.14
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	0.43
73 Diversay Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37
74 Lake Shore Drive, Chicago River	3.27	4.01	ND	ND	ND	ND	ND	ND	ND	ND	0.17
100 Wells Street, Chicago River	3.45	4.25	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	0.32
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	0.40
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.70	4.32	4.22	3.96	ND	2.90	2.94	0.31	0.26	0.36	0.37
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.66	4.49	4.26	3.64	ND	3.07	3.12	0.31	0.32	0.34	0.34
42 Route 33, Chicago Sanitary & Ship Canal	ND	ND	4.36	3.57	ND	3.31	3.47	0.22	0.23	0.63	0.38
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	4.25	3.53	ND	3.06	3.35	0.49	0.34	0.49	0.45
82 Lockport Treblar, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.83	4.50	4.44	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	3.00	3.79	ND	ND	ND	ND	ND	ND	ND	ND	0.31
50 Burnham Avenue, Wolf Lake	2.95	3.44	ND	ND	ND	ND	ND	ND	ND	ND	0.33
55 130th Street, Calumet River	3.30	3.76	ND	ND	ND	ND	ND	ND	ND	ND	0.32
51 IHB Rail Road Bridge, Grand 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	0.86
56 Indiana Avenue, Little Calumet River	3.57	4.25	4.30	3.51	ND	2.95	3.09	0.36	0.72	0.56	0.32
76 Halsted Street, Little Calumet River	3.72	4.34	4.39	3.70	ND	3.17	2.43	0.36	0.42	0.44	0.37
52 Wentworth Avenue, Little Calumet River	4.46	4.43	ND	ND	ND	ND	ND	ND	ND	ND	2.08
54 Joe Orr Road, Thorn Creek	8.21	5.73	ND	ND	ND	ND	ND	ND	ND	ND	0.21
97 170th Street, Thorn Creek	5.67	4.99	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4.68	4.63	ND	ND	ND	ND	ND	ND	ND	ND	0.87
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41
43 Route 83, Calumet Sag Channel	ND	ND	4.41	3.62	ND	3.59	3.32	0.38	0.79	1.07	0.53
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	4.37	5.63	ND	ND	ND	ND	ND	ND	ND	ND	0.65
63 Longmeadow Lane, West Branch Du Page River	ND	5.23	4.21	4.14	ND	4.15	5.07	2.07	0.81	1.96	1.41
89 Walnut Lane, West Branch Du Page River	4.07	4.53	4.13	3.59	ND	3.87	3.53	0.51	0.50	0.72	0.55
64 Lake Street, West Branch Du Page River	4.18	4.91	ND	ND	ND	ND	ND	ND	ND	ND	0.94
79 Higgins Road, Salt Creek	4.23	5.54	4.37	3.64	ND	4.00	4.71	1.16	0.93	1.25	1.11
80 Arlington Heights Road, Salt Creek	4.00	5.07	4.19	3.53	ND	4.04	3.55	0.39	0.64	0.64	0.63
18 Devon Avenue, Salt Creek	3.97	5.06	ND	ND	ND	2.79	ND	ND	ND	ND	0.88
24 Wolf Road, Salt Creek	4.79	4.45	ND	ND	ND	ND	ND	ND	ND	ND	1.25
109 Brookfield Avenue, Salt Creek	3.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	7.16	4.98	ND	ND	ND	ND	ND	ND	ND	ND	1.24
77 Elmhurst Road, Higgins Creek	6.04	5.82	4.42	3.77	ND	4.37	4.85	1.68	3.93	1.18	1.04
78 Wille Road, Higgins Creek	4.43	5.44	4.24	3.69	ND	3.42	3.69	0.72	0.71	0.62	0.35
12 Lake-Cook Road, Buffalo Creek	4.26	4.98	ND	ND	ND	ND	ND	ND	ND	ND	1.14
13 Lake-Cook Road, Des Plaines River	4.10	5.26	ND	ND	ND	ND	ND	ND	ND	ND	0.88
17 Oakton Street, Des Plaines River	4.50	5.26	ND	ND	ND	ND	ND	ND	ND	ND	0.78
19 Belmont Avenue, Des Plaines River	4.56	4.69	ND	ND	ND	ND	ND	ND	ND	ND	1.03
20 Roosevelt Road, Des Plaines River	4.92	4.80	ND	ND	ND	ND	ND	ND	ND	ND	0.96
22 Ogden Avenue, Des Plaines River	4.62	4.83	ND	ND	ND	ND	ND	ND	ND	ND	1.07
23 Willow Springs Road, Des Plaines River	4.17	4.85	ND	ND	ND	ND	ND	ND	ND	ND	1.02
29 Stephen Street, Des Plaines River	4.74	4.86	ND	ND	ND	ND	ND	ND	ND	ND	1.42
91 Material Service Road, Des Plaines River	4.13	5.12	4.54	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-70

GROSS BETA RADIOACTIVITY MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (pCi/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.87
106 Dundee Road, West Fork North Branch Chicago River	8.00	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	9.99	7.77	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.64	7.80	ND	ND	ND	ND	ND	ND	ND	ND	7.64
104 Glenview Road, North Branch Chicago River	12.84	7.59	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	6.70	6.56	ND	ND	ND	ND	ND	ND	ND	ND	7.95
105 Frontage Road, Skokie River	8.46	7.77	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	9.49	7.41	ND	ND	ND	ND	ND	ND	ND	ND	9.70
96 Albany Avenue, North Branch Chicago River	8.47	7.24	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	6.79	4.44	6.67	5.97	ND	5.03	7.76	3.08	1.61	2.55	2.17
102 Oakton Street, North Shore Channel	6.70	5.43	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.94	7.12	11.30	8.46	ND	8.21	7.23	6.45	7.15	6.53	5.58
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	6.35
73 Diversay Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.81
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.53
74 Lake Shore Drive, Chicago River	4.87	5.82	ND	ND	ND	ND	ND	ND	ND	ND	2.63
100 Wells Street, Chicago River	5.36	7.03	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	4.48
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	5.11
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	6.80	8.01	9.05	7.36	ND	6.07	6.34	5.90	6.25	4.98	4.31
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.66	8.32	9.33	9.18	ND	6.93	6.57	7.16	7.71	6.33	5.52
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	9.04	9.32	ND	7.70	6.64	6.97	7.85	6.31	5.34
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	9.65	10.26	ND	7.06	7.22	7.34	8.32	7.83	7.14
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	8.31	7.93	9.11	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	4.31	4.92	ND	ND	ND	ND	ND	ND	ND	ND	3.49
50 Burnham Avenue, Wolf Lake	4.77	4.89	ND	ND	ND	ND	ND	ND	ND	ND	3.67
55 130th Street, Calumet River	5.72	6.36	ND	ND	ND	ND	ND	ND	ND	ND	5.12
51 IHR Rail Road Bridge, Grand 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	15.87
56 Indiana Avenue, Little Calumet River	6.80	8.20	7.59	7.07	ND	6.48	6.50	6.78	7.96	9.61	7.16
76 Halsted Street, Little Calumet River	9.00	7.44	10.27	9.25	ND	8.50	9.10	9.21	9.99	10.17	7.98
52 Wentworth Avenue, Little Calumet River	12.46	9.42	ND	ND	ND	ND	ND	ND	ND	ND	14.01
54 Joe Orr Road, Thorn Creek	12.05	7.95	ND	ND	ND	ND	ND	ND	ND	ND	12.03
97 170th Street, Thorn Creek	12.41	8.40	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	10.76	8.89	ND	ND	ND	ND	ND	ND	ND	ND	10.62
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.62
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.66
43 Route 83, Calumet Sag Channel	ND	ND	9.40	8.97	ND	8.74	7.89	9.39	10.21	10.67	8.85
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	5.70	5.91	ND	ND	ND	ND	ND	ND	ND	ND	6.66
63 Longmeadow Lane, West Branch Du Page River	ND	7.02	7.30	8.49	ND	8.53	8.86	11.98	9.12	7.43	10.83
69 Walnut Lane, West Branch Du Page River	10.82	9.50	9.61	10.64	ND	10.63	9.23	11.10	9.80	9.10	10.79
64 Lake Street, West Branch Du Page River	10.72	10.14	ND	ND	ND	ND	ND	ND	ND	ND	10.25
79 Higgins Road, Salt Creek	8.09	7.05	7.01	6.06	ND	7.21	8.02	8.41	9.52	7.92	8.67
80 Arlington Heights Road, Salt Creek	9.12	9.32	9.75	11.95	ND	8.84	7.79	9.91	10.02	7.34	9.01
18 Devon Avenue, Salt Creek	9.77	8.27	ND	ND	ND	11.00	ND	ND	ND	ND	10.05
24 Wolf Road, Salt Creek	10.71	9.13	ND	ND	ND	ND	ND	ND	ND	ND	13.25
109 Brookfield Avenue, Salt Creek	10.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	10.68	9.41	ND	ND	ND	ND	ND	ND	ND	ND	11.05
77 Elmhurst Road, Higgins Creek	8.82	7.32	7.37	7.18	ND	6.88	8.69	12.58	14.53	7.83	8.83
78 Wille Road, Higgins Creek	15.24	15.72	16.49	16.83	ND	13.15	9.28	15.08	14.52	9.82	11.51
12 Lake-Cook Road, Buffalo Creek	7.42	6.44	ND	ND	ND	ND	ND	ND	ND	ND	10.26
13 Lake-Cook Road, Des Plaines River	9.94	8.21	ND	ND	ND	ND	ND	ND	ND	ND	8.74
17 Oakton Street, Des Plaines River	9.39	7.81	ND	ND	ND	ND	ND	ND	ND	ND	10.59
19 Belmont Avenue, Des Plaines River	10.73	8.37	ND	ND	ND	ND	ND	ND	ND	ND	9.63
20 Roosevelt Road, Des Plaines River	10.38	7.89	ND	ND	ND	ND	ND	ND	ND	ND	9.74
22 Ogden Avenue, Des Plaines River	10.33	7.92	ND	ND	ND	ND	ND	ND	ND	ND	10.54
23 Willow Springs Road, Des Plaines River	10.28	8.78	ND	ND	ND	ND	ND	ND	ND	ND	10.72
29 Stephen Street, Des Plaines River	10.53	8.36	ND	ND	ND	ND	ND	ND	ND	ND	10.27
91 Material Service Road, Des Plaines River	9.88	8.77	9.21	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-71

CHLOROPHYLL a MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (µg/L)</u>										
<u>No.</u>	<u>Name</u>	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundas Road, West Fork North Branch Chicago River	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	11.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	18.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	21.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	16.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	11.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	17.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	9.2	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	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trehler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	31.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	26.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	9.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	24.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	30.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	16.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	13.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	12.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	22.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	14.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	35.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	27.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	20.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	20.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	34.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	35.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-72

TOTAL SILVER MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.000	0.000	ND	ND	ND	0.000	0.010	0.000	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.002	0.000	0.001	0.001	0.001	0.000	0.001	0.008	0.000	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.002	0.000	0.001	0.000	0.001	0.000	0.001	0.008	0.000	0.000	0.000
105	Frontage Road, Skokie River	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.001	0.001	0.001	0.001	0.002	0.000	0.001	0.008	0.000	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.002	0.001	0.001	0.000	0.003	0.000	0.002	0.007	0.000	0.000	0.000
101	Foster Avenue, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.002	0.007	0.000	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.001	0.001	0.000	0.001	0.002	0.000	0.000	0.007	0.000	0.000	0.000
74	Lake Shore Drive, Chicago River	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.007	0.000	0.000	0.000
100	Wells Street, Chicago River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.007	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.001	0.001	0.000	0.002	0.000	0.001	0.008	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.000	0.001	0.000	0.001	0.001	0.000	0.007	0.000	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.001	0.001	0.002	0.000	0.008	0.000	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.000	0.001	0.000	0.001	0.001	0.001	0.007	0.000	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.001	0.001	0.000	0.002	0.005	0.003	0.005	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.001	0.002	0.001	0.000	0.004	0.003	0.002	0.003	0.000	0.000	0.000
55	130th Street, Calumet River	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.004	0.002	0.000	0.000
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.002	0.002	0.000	0.001	0.003	0.003	0.005	0.000	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.001	0.002	0.001	0.000	0.000	0.000	0.003	0.005	0.000	0.000	0.000
76	Malsted Street, Little Calumet River	0.003	0.001	0.001	0.000	0.001	0.001	0.003	0.003	0.000	0.000	0.003
52	Wentworth Avenue, Little Calumet River	0.004	0.001	0.001	0.000	0.002	0.000	0.003	0.006	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.003	0.001	0.001	0.000	0.002	0.000	0.003	0.004	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.001	0.001	0.002	0.000	0.000	0.001	0.003	0.004	0.002	0.000	0.000
58	Ashland Avenue, Calumet Sag Channel	0.003	0.003	0.000	0.000	0.003	0.002	0.003	0.004	0.001	0.000	0.000
59	Cicero Avenue, Calumet Sag Channel	0.001	0.002	0.000	0.000	0.002	0.006	0.003	0.004	0.000	0.000	0.000
43	Route 83, Calumet Sag Channel	0.001	0.001	0.001	0.000	0.002	0.003	0.002	0.004	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.001	0.000	0.000	0.001	0.007	0.000	0.008	0.001	0.000	0.000
63	Longmeadow Lane, West Branch Du Page River	ND	0.002	0.000	0.000	0.000	0.006	0.000	0.010	0.000	0.000	0.000
89	Walnut Lane, West Branch Du Page River	0.001	0.001	0.000	0.000	0.000	0.005	0.000	0.008	0.000	0.000	0.000
64	Lake Street, West Branch Du Page River	0.001	0.001	0.001	0.000	0.001	0.006	0.001	0.008	0.000	0.000	0.000
79	Higgins Road, Salt Creek	0.001	0.001	0.000	0.000	0.001	0.006	0.000	0.009	0.000	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.008	0.000	0.000	0.000
18	Devon Avenue, Salt Creek	0.001	0.001	0.000	0.000	0.000	0.006	0.000	0.006	0.001	0.000	0.000
24	Wolf Road, Salt Creek	0.001	0.001	0.000	0.000	0.000	0.002	0.000	0.007	0.000	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.000	0.001	0.001	0.000	0.000	0.002	0.001	0.006	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.001	0.001	0.000	0.000	0.000	0.006	0.001	0.008	0.001	0.000	0.000
78	Wille Road, Higgins Creek	0.002	0.001	0.000	0.000	0.000	0.003	0.000	0.008	0.001	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	0.000	0.000	0.006	0.000	0.008	0.000	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.003	0.001	0.001	0.000	0.000	0.005	0.000	0.009	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.007	0.000	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.002	0.000	0.008	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.008	0.000	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.001	0.001	0.000	0.001	0.000	0.007	0.001	0.008	0.000	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.001	0.001	0.000	0.000	0.000	0.005	0.000	0.006	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.008	0.001	0.000	0.000
91	Material Service Road, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-73

SOLUBLE SILVER MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	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	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Treblett, 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	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Hill Road, Higgins Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-74

TOTAL ARSENIC MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.010	0.000	ND	ND	ND	0.000	0.000	0.000	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.003	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.004	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	Frontage Road, Skokie River	0.002	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.003	0.007	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.000	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.002	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.003	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	Foster Avenue, North Shore Channel	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.003	0.010	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.003	0.005	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74	Lake Shore Drive, Chicago River	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	Wells Street, Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.000	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82	Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.006	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	130th Street, Calumet River	0.008	0.005	0.005	0.027	0.000	0.023	0.000	0.000	0.000	0.000	0.000
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.006	0.004	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76	Halsted Street, Little Calumet River	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.017	0.006	0.007	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.010	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.003	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	Ashland Avenue, Calumet Sag Channel	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	Cicero Avenue, Calumet Sag Channel	0.009	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43	Route 83, Calumet Sag Channel	0.005	0.006	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.003	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	Longmeadow Lane, West Branch Du Page River	ND	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89	Walnut Lane, West Branch Du Page River	0.002	0.006	0.000	0.000	0.017	0.000	0.000	0.008	0.000	0.000	0.000
64	Lake Street, West Branch Du Page River	0.004	0.005	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	Higgins Road, Salt Creek	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	Devon Avenue, Salt Creek	0.002	0.006	0.005	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000
24	Wolf Road, Salt Creek	0.007	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.000	0.003	0.007	0.000	0.000	0.000	0.001	0.008	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78	Wille Road, Higgins Creek	0.002	0.002	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.008	0.003	0.012	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.004	0.003	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.002	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.004	0.002	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000
91	Material Service Road, Des Plaines River	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-75

SOLUBLE ARSENIC MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundas Road, West Fork North Branch Chicago River	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
95	Albany Avenue, North Branch Chicago River	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversy Parkway, North Branch Chicago River	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.001	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.005	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	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	0.001	ND	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
21	First Avenue, Salt Creek	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.002	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-76

TOTAL BARIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
30 Lake-Cook Road, West Fork North Branch	ND	0.089	0.083	ND	ND	ND	0.038	0.030	0.050	0.067	0.000	
106 Dundee Road, West Fork North Branch Chicago River	0.054	0.072	ND	ND	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	0.051	0.052	ND	ND	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	0.045	0.054	0.041	0.039	0.040	0.039	0.041	0.043	0.010	0.000	0.000	
104 Glenview Road, North Branch Chicago River	0.035	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	0.047	0.053	0.042	0.040	0.044	0.044	0.046	0.046	0.022	0.000	0.000	
105 Frontage Road, Skokie River	0.032	0.036	ND	ND	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	0.040	0.047	0.033	0.032	0.034	0.036	0.036	0.024	0.000	0.000	0.000	
96 Albany Avenue, North Branch Chicago River	0.043	0.044	0.029	ND	ND	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0.030	0.026	0.023	0.023	0.022	0.024	0.026	0.023	0.000	0.000	0.000	
102 Oakton Street, North Shore Channel	0.025	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND	
36 Touhy Avenue, North Shore Channel	0.024	0.027	0.017	0.020	0.021	0.022	0.020	0.016	0.000	0.000	0.000	
101 Foster Avenue, North Shore Channel	0.024	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND	
27 Wilson Avenue, North Branch Chicago River	0.028	0.031	0.021	0.022	0.040	0.023	0.023	0.016	0.000	0.000	0.000	
73 Diversey Parkway, North Branch Chicago River	0.029	0.033	0.020	0.048	0.023	0.023	0.023	0.017	0.000	0.000	0.000	
46 Grand Avenue, North Branch Chicago River	0.028	0.031	0.021	0.021	0.023	0.025	0.023	0.013	0.000	0.000	0.000	
74 Lake Shore Drive, Chicago River	0.025	0.026	0.023	0.020	0.021	0.022	0.022	0.018	0.000	0.000	0.000	
100 Wells Street, Chicago River	0.027	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	0.027	0.031	0.022	0.024	0.024	0.023	0.023	0.027	0.000	0.000	0.000	
108 Loomis Street, South Branch Chicago River	0.027	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0.029	0.036	ND	ND	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.019	0.024	0.025	0.023	0.024	0.024	0.000	0.000	0.000	
107 Western Avenue, Chicago Sanitary & Ship Canal	0.029	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.031	0.023	0.023	0.023	0.023	0.023	0.016	0.000	0.000	0.000	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.023	0.026	0.018	0.019	0.020	0.022	0.021	0.014	0.000	0.000	0.000	
42 Route 83, Chicago Sanitary & Ship Canal	0.023	0.025	0.017	0.018	0.019	0.024	0.021	0.014	0.000	0.000	0.000	
48 Stephen Street, Chicago Sanitary & Ship Canal	0.024	0.027	0.020	0.018	0.020	0.023	0.024	0.014	0.000	0.000	0.000	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0.027	0.032	0.036	0.039	0.032	0.031	0.025	0.034	0.009	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.026	0.028	0.019	ND	ND	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	0.026	0.030	0.022	0.024	0.019	0.022	0.023	0.019	0.000	0.000	0.000	
50 Burnham Avenue, Wolf Lake	0.029	0.031	0.024	0.024	0.028	0.028	0.028	0.022	0.008	0.000	0.000	
55 130th Street, Calumet River	0.035	0.040	0.028	0.029	0.028	0.028	0.026	0.023	0.000	0.000	0.000	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	0.029	0.030	0.025	0.026	0.027	0.028	0.116	0.053	0.000	0.000	0.000	
56 Indiana Avenue, Little Calumet River	0.037	0.035	0.029	0.032	0.028	0.032	0.032	0.027	0.000	0.000	0.000	
76 Halsted Street, Little Calumet River	0.024	0.030	0.015	0.020	0.018	0.023	0.023	0.017	0.000	0.000	0.000	
52 Wentworth Avenue, Little Calumet River	0.045	0.047	0.040	0.037	0.045	0.045	0.051	0.036	0.009	0.000	0.000	
54 Joe Orr Road, Thorn Creek	0.030	0.032	0.019	0.023	0.025	0.025	0.023	0.016	0.000	0.000	0.000	
97 170th Street, Thorn Creek	0.041	0.043	ND	ND	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	0.040	0.044	0.034	0.033	0.036	0.037	0.038	0.030	0.000	0.000	0.000	
58 Ashland Avenue, Calumet Sag Channel	0.029	0.030	0.022	0.023	0.021	0.032	0.027	0.022	0.000	0.000	0.000	
59 Cicero Avenue, Calumet Sag Channel	0.028	0.035	0.021	0.023	0.024	0.027	0.028	0.020	0.000	0.000	0.000	
43 Route 83, Calumet Sag Channel	0.030	0.034	0.024	0.024	0.026	0.025	0.031	0.020	0.000	0.000	0.000	
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	0.071	0.067	0.053	0.102	0.063	0.071	0.085	0.067	0.018	0.000	0.000	
63 Longmeadow Lane, West Branch Du Page River	ND	0.072	0.044	0.045	0.049	0.056	0.055	0.061	0.000	0.000	0.000	
89 Walnut Lane, West Branch Du Page River	0.031	0.035	0.025	0.025	0.023	0.022	0.031	0.035	0.008	0.000	0.000	
64 Lake Street, West Branch Du Page River	0.037	0.042	0.035	0.032	0.032	0.035	0.038	0.047	0.000	0.000	0.000	
79 Higgins Road, Salt Creek	0.048	0.061	0.040	0.042	0.044	0.045	0.050	0.055	0.020	0.000	0.000	
80 Arlington Heights Road, Salt Creek	0.030	0.035	0.026	0.023	0.023	0.029	0.030	0.021	0.000	0.000	0.000	
18 Devon Avenue, Salt Creek	0.031	0.035	0.028	0.026	0.023	0.035	0.030	0.021	0.000	0.000	0.000	
24 Wolf Road, Salt Creek	0.036	0.042	0.034	0.030	0.035	0.034	0.037	0.029	0.009	0.000	0.000	
109 Brookfield Avenue, Salt Creek	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	0.046	0.048	0.033	0.030	0.033	0.034	0.035	0.030	0.000	0.000	0.000	
77 Elmhurst Road, Higgins Creek	0.060	0.072	0.047	0.054	0.060	0.054	0.057	0.055	0.036	0.000	0.000	
78 Wille Road, Higgins Creek	0.030	0.032	0.023	0.022	0.028	0.027	0.036	0.024	0.000	0.000	0.000	
12 Lake-Cook Road, Buffalo Creek	0.055	0.056	0.046	0.048	0.046	0.048	0.053	0.054	0.030	0.017	0.000	
13 Lake-Cook Road, Des Plaines River	0.044	0.044	0.036	0.060	0.037	0.036	0.037	0.033	0.011	0.000	0.000	
17 Oakton Street, Des Plaines River	0.044	0.047	0.039	0.035	0.040	0.038	0.041	0.045	0.000	0.000	0.000	
19 Belmont Avenue, Des Plaines River	0.040	0.045	0.034	0.032	0.037	0.038	0.039	0.043	0.000	0.000	0.000	
20 Roosevelt Road, Des Plaines River	0.042	0.043	0.034	0.033	0.038	0.038	0.038	0.032	0.000	0.000	0.000	
22 Ogden Avenue, Des Plaines River	0.040	0.045	0.034	0.032	0.035	0.039	0.036	0.033	0.000	0.000	0.000	
23 Willow Springs Road, Des Plaines River	0.038	0.045	0.031	0.060	0.036	0.038	0.037	0.034	0.000	0.000	0.000	
29 Stephen Street, Des Plaines River	0.040	0.045	0.034	0.059	0.038	0.038	0.038	0.029	0.000	0.000	0.000	
91 Material Service Road, Des Plaines River	0.039	0.044	0.032	ND	ND	ND	ND	ND	ND	ND	ND	

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-77

SOLUBLE BARIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	0.044	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.040	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.036	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.027	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.039	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.025	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.030	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.032	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.022	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.019	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.019	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.018	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.021	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diverser Parkway, North Branch Chicago River	0.020	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.019	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.021	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.021	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.020	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.020	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.020	0.023	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	0.020	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Treblier, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forsbay, Chicago Sanitary & Ship Canal	0.018	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.021	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.024	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.029	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.017	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.028	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.018	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.032	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.026	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.029	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.030	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.020	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.019	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.020	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.061	0.055	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.058	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.024	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.028	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.035	0.048	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.024	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.024	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.028	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.037	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.048	0.056	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.022	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.044	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.034	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.035	0.035	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.033	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.034	0.034	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.032	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.031	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.032	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Services Road, Des Plaines River	0.031	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-78

TOTAL BORON MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
30 Lake-Cook Road, West Fork North Branch	ND	0.171	0.208	ND	ND	ND	0.328	ND	ND	ND	ND	
106 Dundee Road, West Fork North Branch Chicago River	0.139	0.186	ND	ND	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	0.159	0.151	ND	ND	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	0.122	0.104	0.134	0.132	0.113	0.133	0.164	ND	ND	ND	ND	
104 Glenview Road, North Branch Chicago River	0.167	0.156	ND	ND	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	0.120	0.122	0.161	0.125	0.155	0.188	0.199	ND	ND	ND	ND	
105 Frontage Road, Skokie River	0.186	0.166	ND	ND	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	0.172	0.132	0.194	0.178	0.167	0.227	0.234	ND	ND	ND	ND	
96 Albany Avenue, North Branch Chicago River	0.169	0.157	0.243	ND	ND	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0.052	0.030	0.050	0.015	0.039	0.064	0.117	ND	ND	ND	ND	
102 Oakton Street, North Shore Channel	0.118	0.058	ND	ND	ND	ND	ND	ND	ND	ND	ND	
36 Touhy Avenue, North Shore Channel	0.185	0.211	0.233	0.208	0.215	0.274	0.233	ND	ND	ND	ND	
101 Foster Avenue, North Shore Channel	0.176	0.201	ND	ND	ND	ND	ND	ND	ND	ND	ND	
37 Wilson Avenue, North Branch Chicago River	0.160	0.183	0.201	0.188	0.180	0.243	0.233	ND	ND	ND	ND	
73 Diversey Parkway, North Branch Chicago River	0.161	0.173	0.205	0.193	0.175	0.227	0.233	ND	ND	ND	ND	
46 Grand Avenue, North Branch Chicago River	0.161	0.178	0.214	0.189	0.181	0.223	0.230	ND	ND	ND	ND	
74 Lake Shore Drive, Chicago River	0.055	0.082	0.091	0.025	0.047	0.055	0.092	ND	ND	ND	ND	
100 Wells Street, Chicago River	0.080	0.091	ND	ND	ND	ND	ND	ND	ND	ND	ND	
39 Madison Street, South Branch Chicago River	0.140	0.135	0.178	0.156	0.120	0.155	0.172	ND	ND	ND	ND	
108 Loomis Street, South Branch Chicago River	0.136	0.128	ND	ND	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0.135	0.148	ND	ND	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.162	0.141	0.119	0.193	0.168	ND	ND	ND	ND	
107 Western Avenue, Chicago Sanitary & Ship Canal	0.136	0.129	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.145	0.143	0.174	0.133	0.113	0.188	0.169	ND	ND	ND	ND	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.184	0.199	0.200	0.175	0.173	0.243	0.210	ND	ND	ND	ND	
42 Route 83, Chicago Sanitary & Ship Canal	0.232	0.206	0.219	0.183	0.188	0.262	0.232	ND	ND	ND	ND	
48 Stephen Street, Chicago Sanitary & Ship Canal	0.227	0.219	0.247	0.197	0.185	0.280	0.229	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	0.206	0.209	0.224	ND	ND	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	0.039	0.045	0.033	0.002	0.053	0.092	0.100	ND	ND	ND	ND	
50 Burnham Avenue, Wolf Lake	0.104	0.100	0.069	0.035	0.096	0.153	0.169	ND	ND	ND	ND	
55 130th Street, Calumet River	0.120	0.146	0.084	0.061	0.091	0.150	0.140	ND	ND	ND	ND	
51 IHD Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	0.383	0.370	0.371	0.386	0.338	0.388	0.506	ND	ND	ND	ND	
56 Indiana Avenue, Little Calumet River	0.161	0.152	0.159	0.123	0.168	0.214	0.189	ND	ND	ND	ND	
76 Halsted Street, Little Calumet River	0.201	0.228	0.286	0.244	0.253	0.293	0.340	ND	ND	ND	ND	
52 Wentworth Avenue, Little Calumet River	0.321	0.209	0.276	0.235	0.238	0.345	0.296	ND	ND	ND	ND	
54 Joe Orr Road, Thorn Creek	0.353	0.351	0.410	0.353	0.357	0.428	0.413	ND	ND	ND	ND	
97 170th Street, Thorn Creek	0.332	0.254	ND	ND	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	0.270	0.212	0.321	0.267	0.259	0.421	0.329	ND	ND	ND	ND	
58 Ashland Avenue, Calumet Sag Channel	0.226	0.232	0.280	0.227	0.260	0.332	0.261	ND	ND	ND	ND	
59 Cicero Avenue, Calumet Sag Channel	0.207	0.228	0.277	0.230	0.257	0.298	0.279	ND	ND	ND	ND	
43 Route 83, Calumet Sag Channel	0.194	0.215	0.250	0.235	0.243	0.298	0.283	ND	ND	ND	ND	
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	0.056	0.063	0.059	0.012	0.058	0.143	0.158	ND	ND	ND	ND	
63 Longmeadow Lane, West Branch Du Page River	ND	0.083	0.069	0.128	0.180	0.223	0.197	ND	ND	ND	ND	
89 Walnut Lane, West Branch Du Page River	0.285	0.296	0.285	0.311	0.328	0.393	0.339	ND	ND	ND	ND	
64 Lake Street, West Branch Du Page River	0.224	0.243	0.203	0.238	0.266	0.309	0.296	ND	ND	ND	ND	
79 Higgins Road, Salt Creek	0.100	0.099	0.086	0.071	0.092	0.169	0.186	ND	ND	ND	ND	
80 Arlington Heights Road, Salt Creek	0.207	0.223	0.207	0.225	0.233	0.278	0.279	ND	ND	ND	ND	
18 Devon Avenue, Salt Creek	0.192	0.211	0.195	0.213	0.218	0.257	0.268	ND	ND	ND	ND	
24 Wolf Road, Salt Creek	0.227	0.184	0.182	0.203	0.195	0.273	0.277	ND	ND	ND	ND	
109 Brookfield Avenue, Salt Creek	0.247	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
21 First Avenue, Salt Creek	0.179	0.196	0.176	0.200	0.233	0.306	0.267	ND	ND	ND	ND	
77 Elmhurst Road, Higgins Creek	0.074	0.116	0.083	0.124	0.148	0.202	0.237	ND	ND	ND	ND	
78 Wille Road, Higgins Creek	0.335	0.377	0.367	0.376	0.373	0.436	0.404	ND	ND	ND	ND	
12 Lake-Cook Road, Buffalo Creek	0.101	0.095	0.101	0.117	0.099	0.173	0.184	ND	ND	ND	ND	
13 Lake-Cook Road, Des Plaines River	0.189	0.167	0.166	0.166	0.176	0.250	0.297	ND	ND	ND	ND	
17 Oakton Street, Des Plaines River	0.191	0.158	0.146	0.166	0.171	0.235	0.296	ND	ND	ND	ND	
19 Belmont Avenue, Des Plaines River	0.207	0.178	0.176	0.215	0.208	0.271	0.238	ND	ND	ND	ND	
20 Roosevelt Road, Des Plaines River	0.218	0.169	0.181	0.205	0.213	0.285	0.313	ND	ND	ND	ND	
22 Ogden Avenue, Des Plaines River	0.214	0.169	0.178	0.201	0.233	0.321	0.308	ND	ND	ND	ND	
23 Willow Springs Road, Des Plaines River	0.219	0.172	0.185	0.196	0.208	0.317	0.279	ND	ND	ND	ND	
29 Stephen Street, Des Plaines River	0.204	0.172	0.182	0.185	0.201	0.324	0.274	ND	ND	ND	ND	
91 Material Service Road, Des Plaines River	0.213	0.165	0.215	ND	ND	ND	ND	ND	ND	ND	ND	

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-79

SOLUBLE BORON MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundas Road, West Fork North Branch Chicago River	0.118	0.158	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.139	0.139	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.101	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.148	0.143	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.103	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.167	0.148	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Deerpater Street, North Branch Chicago River	0.151	0.111	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.148	0.129	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.030	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.104	0.060	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.169	0.196	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foeter Avenue, North Shore Channel	0.158	0.186	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.144	0.169	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversay Parkway, North Branch Chicago River	0.141	0.160	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.146	0.168	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.044	0.064	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.068	0.081	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.125	0.117	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.123	0.119	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.121	0.121	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	0.123	0.115	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.130	0.119	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.169	0.163	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.218	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.211	0.205	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.185	0.187	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.029	0.037	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.088	0.097	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.108	0.124	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.358	0.327	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.145	0.143	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.186	0.194	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.296	0.185	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.327	0.324	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.290	0.228	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.247	0.198	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	0.208	0.203	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	0.188	0.194	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	0.172	0.195	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.041	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	0.068	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.262	0.296	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	0.203	0.222	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.077	0.090	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.185	0.217	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.174	0.208	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.198	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.159	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.057	0.103	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wills Road, Higgins Creek	0.306	0.384	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.085	0.086	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.162	0.159	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.152	0.151	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.178	0.169	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.189	0.164	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.191	0.161	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.203	0.161	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.182	0.154	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.193	0.155	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-80

TOTAL CADMIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.002	0.000	ND	ND	ND	0.000	0.001	0.040	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.004	0.000	0.001	0.004	0.000	0.000	0.003	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.003	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
73 Diversay Parkway, North Branch Chicago River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.002	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002
56 Indiana Avenue, Little Calumet River	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.000	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	ND	0.001	0.000	0.001	0.001	0.001	0.000	0.003	0.002	0.000	0.000
85 Walnut Lane, West Branch Du Page River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
64 Lake Street, West Branch Du Page River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.000
79 Higgins Road, Salt Creek	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000
18 Devon Avenue, Salt Creek	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
24 Wolf Road, Salt Creek	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.002	0.001	0.000	0.000	0.002	0.000	0.000	0.001	0.001	0.000	0.000
78 Wille Road, Higgins Creek	0.001	0.001	0.000	0.000	0.003	0.000	0.000	0.001	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
17 Oakton Street, Des Plaines River	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.003	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-81

SOLUBLE CADMIUM MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	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	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 33, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
62	Lockport Trebley, 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	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 33, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	0.000	ND	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
21	First Avenue, Salt Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-82

TOTAL COPPER MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.030	0.035	ND	ND	ND	0.020	0.024	0.245	0.004	0.005
106	Dundee Road, West Fork North Branch Chicago River	0.023	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.024	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.022	0.022	0.011	0.003	0.007	0.007	0.003	0.012	0.001	0.003	0.001
104	Glenview Road, North Branch Chicago River	0.020	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.019	0.020	0.011	0.004	0.007	0.005	0.006	0.013	0.001	0.002	0.003
105	Frontage Road, Skokie River	0.020	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.021	0.020	0.011	0.003	0.008	0.008	0.005	0.012	0.002	0.002	0.001
96	Albany Avenue, North Branch Chicago River	0.022	0.021	0.024	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.023	0.016	0.007	0.001	0.004	0.004	0.002	0.013	0.000	0.002	0.000
102	Oakton Street, North Shore Channel	0.021	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.024	0.018	0.012	0.003	0.004	0.004	0.005	0.007	0.002	0.003	0.001
101	Poster Avenue, North Shore Channel	0.023	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.023	0.019	0.014	0.002	0.005	0.003	0.005	0.007	0.001	0.001	0.000
73	Diversey Parkway, North Branch Chicago River	0.022	0.021	0.015	0.003	0.008	0.006	0.007	0.008	0.001	0.003	0.001
46	Grand Avenue, North Branch Chicago River	0.022	0.017	0.012	0.006	0.006	0.006	0.006	0.000	0.000	0.000	0.000
74	Lake Shore Drive, Chicago River	0.013	0.015	0.011	0.002	0.005	0.005	0.002	0.007	0.000	0.000	0.002
100	Wells Street, Chicago River	0.019	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.020	0.016	0.010	0.001	0.005	0.004	0.006	0.008	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.020	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.017	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.008	0.002	0.005	0.006	0.004	0.011	0.000	0.002	0.002
107	Western Avenue, Chicago Sanitary & Ship Canal	0.021	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.020	0.012	0.002	0.004	0.007	0.009	0.008	0.000	0.001	0.001
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.016	0.014	0.012	0.001	0.004	0.003	0.008	0.006	0.001	0.000	0.001
42	Route 83, Chicago Sanitary & Ship Canal	0.017	0.017	0.009	0.001	0.004	0.004	0.008	0.006	0.003	0.002	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.015	0.011	0.001	0.003	0.003	0.006	0.006	0.000	0.000	0.002
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0.027	0.049	0.110	0.051	0.032	0.023	0.006	ND	0.006
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.020	0.016	0.009	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.015	0.015	0.009	0.007	0.008	0.005	0.003	0.015	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.013	0.018	0.007	0.001	0.005	0.004	0.010	0.007	0.001	0.000	0.000
55	130th Street, Calumet River	0.015	0.017	0.008	0.001	0.006	0.005	0.002	0.008	0.002	0.001	0.002
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.020	0.022	0.023	0.013	0.018	0.013	0.020	0.030	0.008	0.003	0.019
56	Indiana Avenue, Little Calumet River	0.020	0.014	0.010	0.003	0.007	0.005	0.005	0.007	0.002	0.001	0.000
76	Halsted Street, Little Calumet River	0.016	0.017	0.010	0.000	0.004	0.003	0.010	0.007	0.002	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.019	0.019	0.016	0.004	0.009	0.009	0.008	0.012	0.005	0.003	0.004
54	Joe Orr Road, Thorn Creek	0.013	0.017	0.010	0.001	0.006	0.005	0.004	0.006	0.001	0.000	0.001
97	170th Street, Thorn Creek	0.016	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.017	0.021	0.013	0.003	0.008	0.008	0.002	0.006	0.000	0.000	0.000
58	Ashland Avenue, Calumet Sag Channel	0.017	0.017	0.011	0.001	0.006	0.005	0.003	0.008	0.002	0.002	0.001
59	Cicero Avenue, Calumet Sag Channel	0.016	0.018	0.008	0.002	0.008	0.005	0.004	0.005	0.002	0.002	0.002
43	Route 83, Calumet Sag Channel	0.018	0.019	0.009	0.001	0.008	0.008	0.004	0.007	0.003	0.000	0.001
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.016	0.014	0.006	0.000	0.005	0.004	0.006	0.011	0.004	0.003	0.006
63	Longmeadow Lane, West Branch Du Page River	ND	0.019	0.007	0.002	0.005	0.011	0.009	0.020	0.002	0.006	0.001
89	Walnut Lane, West Branch Du Page River	0.023	0.020	0.011	0.006	0.008	0.010	0.011	0.015	0.004	0.006	0.007
64	Lake Street, West Branch Du Page River	0.021	0.019	0.008	0.002	0.010	0.008	0.011	0.013	0.004	0.006	0.007
79	Higgins Road, Salt Creek	0.021	0.014	0.008	0.000	0.003	0.005	0.005	0.010	0.002	0.005	0.001
80	Arlington Heights Road, Salt Creek	0.018	0.021	0.011	0.003	0.005	0.006	0.006	0.007	0.004	0.005	0.001
18	Devon Avenue, Salt Creek	0.019	0.016	0.011	0.004	0.004	0.007	0.007	0.008	0.003	0.001	0.001
24	Wolf Road, Salt Creek	0.020	0.018	0.011	0.004	0.005	0.006	0.012	0.009	0.009	0.007	0.001
109	Brookfield Avenue, Salt Creek	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.016	0.022	0.011	0.005	0.008	0.006	0.013	0.012	0.007	0.016	0.000
77	Elmhurst Road, Higgins Creek	0.019	0.017	0.009	0.003	0.007	0.005	0.011	0.007	0.006	0.007	0.004
78	Wille Road, Higgins Creek	0.018	0.016	0.011	0.000	0.013	0.004	0.007	0.007	0.003	0.003	0.000
12	Lake-Cook Road, Buffalo Creek	0.017	0.014	0.006	0.001	0.005	0.006	0.008	0.008	0.007	0.003	0.001
13	Lake-Cook Road, Des Plaines River	0.019	0.015	0.010	0.001	0.006	0.007	0.008	0.010	0.001	0.002	0.001
17	Oakton Street, Des Plaines River	0.018	0.014	0.010	0.001	0.007	0.002	0.006	0.007	0.010	0.004	0.001
19	Belmont Avenue, Des Plaines River	0.021	0.017	0.012	0.001	0.008	0.005	0.007	0.008	0.004	0.005	0.001
20	Roosevelt Road, Des Plaines River	0.022	0.015	0.010	0.002	0.007	0.005	0.008	0.008	0.006	0.006	0.001
22	Ogden Avenue, Des Plaines River	0.020	0.019	0.012	0.001	0.006	0.009	0.008	0.010	0.005	0.008	0.003
23	Willow Springs Road, Des Plaines River	0.023	0.017	0.010	0.001	0.005	0.005	0.009	0.007	0.007	0.008	0.003
29	Stephen Street, Des Plaines River	0.022	0.017	0.011	0.002	0.005	0.004	0.011	0.009	0.007	0.008	0.003
91	Material Service Road, Des Plaines River	0.019	0.019	0.011	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-83

SOLUBLE COPPER MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	0.010	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.007	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.008	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversy Parkway, North Branch Chicago River	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.004	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	0.005	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trailier, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Porebay, Chicago Sanitary & Ship Canal	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IKB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
72 Wentworth Avenue, Little Calumet River	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.010	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.008	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.009	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.008	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.010	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.007	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.008	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-84

TOTAL CHROMIUM MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.005	0.009	ND	ND	ND	0.000	0.018	0.155	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.007	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.006	0.004	0.001	0.001	0.005	0.000	0.001	0.011	0.004	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.005	0.002	0.001	0.000	0.000	0.000	0.013	0.004	0.000	0.000
105	Frontage Road, Skokie River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.007	0.003	0.000	0.000	0.000	0.000	0.001	0.012	0.007	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.001	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.008	0.003	0.000	0.001	0.000	0.000	0.000	0.010	0.005	0.007	0.000
102	Oakton Street, North Shore Channel	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.005	0.002	0.003	0.000	0.000	0.000	0.001	0.013	0.011	0.000	0.000
101	Poster Avenue, North Shore Channel	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.006	0.003	0.001	0.000	0.000	0.000	0.002	0.011	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.004	0.004	0.002	0.000	0.000	0.000	0.001	0.009	0.003	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.005	0.002	0.002	0.000	0.000	0.002	0.001	0.007	0.003	0.000	0.000
74	Lake Shore Drive, Chicago River	0.003	0.002	0.002	0.000	0.000	0.001	0.004	0.011	0.002	0.000	0.003
100	Wells Street, Chicago River	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.005	0.003	0.003	0.002	0.003	0.000	0.003	0.009	0.010	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.002	0.002	0.002	0.001	0.003	0.011	0.005	0.000	0.003
107	Western Avenue, Chicago Sanitary & Ship Canal	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.006	0.003	0.005	0.001	0.000	0.000	0.003	0.009	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.005	0.006	0.001	0.001	0.000	0.004	0.008	0.002	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.005	0.002	0.007	0.001	0.000	0.001	0.007	0.012	0.000	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.005	0.006	0.001	0.000	0.000	0.004	0.009	0.004	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.006	0.003	0.002	0.002	0.000	0.000	0.002	0.002
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.002	0.003	0.002	0.002	0.000	0.002	0.005	0.002	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.004	0.002	0.001	0.000	0.000	0.000	0.002	0.006	0.001	0.000	0.000
55	130th Street, Calumet River	0.003	0.000	0.002	0.001	0.000	0.001	0.001	0.005	0.000	0.000	0.000
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.003	0.006	0.006	0.002	0.005	0.003	0.035	0.018	0.001	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.006	0.002	0.003	0.001	0.000	0.000	0.003	0.005	0.001	0.000	0.000
76	Halsted Street, Little Calumet River	0.001	0.004	0.003	0.001	0.000	0.000	0.000	0.005	0.001	0.000	0.003
52	Wentworth Avenue, Little Calumet River	0.007	0.003	0.003	0.001	0.000	0.000	0.003	0.006	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.005	0.002	0.003	0.001	0.000	0.002	0.002	0.006	0.002	0.000	0.000
97	170th Street, Thorn Creek	0.005	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.007	0.003	0.004	0.001	0.000	0.000	0.001	0.005	0.000	0.002	0.000
58	Ashland Avenue, Calumet Sag Channel	0.006	0.003	0.003	0.001	0.004	0.000	0.002	0.004	0.000	0.000	0.000
59	Cicero Avenue, Calumet Sag Channel	0.005	0.005	0.004	0.002	0.000	0.000	0.005	0.006	0.000	0.000	0.000
43	Route 83, Calumet Sag Channel	0.005	0.004	0.004	0.002	0.000	0.003	0.004	0.008	0.001	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.003	0.005	0.002	0.000	0.000	0.002	0.000	0.015	0.000	0.000	0.000
63	Longmeadow Lane, West Branch Du Page River	ND	0.009	0.001	0.002	0.003	0.001	0.002	0.016	0.000	0.000	0.000
89	Walnut Lane, West Branch Du Page River	0.002	0.004	0.001	0.000	0.000	0.002	0.000	0.012	0.000	0.000	0.000
64	Lake Street, West Branch Du Page River	0.003	0.005	0.001	0.000	0.001	0.001	0.000	0.011	0.000	0.001	0.000
79	Higgins Road, Salt Creek	0.009	0.005	0.001	0.000	0.000	0.000	0.001	0.014	0.001	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.003	0.005	0.001	0.001	0.002	0.000	0.000	0.009	0.000	0.000	0.000
18	Devon Avenue, Salt Creek	0.001	0.002	0.002	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000
24	Wolf Road, Salt Creek	0.007	0.006	0.004	0.000	0.000	0.001	0.002	0.009	0.000	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.000	0.006	0.003	0.001	0.000	0.000	0.001	0.009	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.004	0.001	0.002	0.000	0.003	0.001	0.001	0.009	0.000	0.000	0.000
78	Wille Road, Higgins Creek	0.004	0.004	0.003	0.000	0.004	0.001	0.003	0.013	0.000	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.010	0.002	0.001	0.000	0.000	0.000	0.001	0.011	0.000	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.001	0.003	0.001	0.000	0.000	0.001	0.001	0.008	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.004	0.005	0.003	0.000	0.001	0.000	0.000	0.011	0.000	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.002	0.005	0.003	0.000	0.001	0.001	0.001	0.011	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.004	0.005	0.003	0.001	0.000	0.000	0.001	0.009	0.000	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.004	0.005	0.005	0.000	0.001	0.002	0.001	0.011	0.000	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.002	0.005	0.003	0.000	0.000	0.001	0.001	0.010	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.001	0.005	0.005	0.000	0.000	0.000	0.000	0.008	0.000	0.005	0.000
91	Material Service Road, Des Plaines River	0.004	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-85

SOLUBLE CHROMIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)											
	02	01	00	99	98	97	96	95	94	93	92	
<u>Chicago River System</u>												
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	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversy Parkway, North Branch Chicago River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.000	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	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trail, 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	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49 Ewing Avenue, Calumet River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.006	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.007	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.005	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90 Route 19, Poplar Creek	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Willie Road, Higgins Creek	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-86

TOTAL HEXAVALENT CHROMIUM MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		Annual Means (µg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.167	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.167	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	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	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	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	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Walsted Street, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Calumet Sag Channel	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109	Brockfield Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-87

TOTAL IRON MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	1.795	1.350	ND	ND	ND	0.690	0.626	0.500	1.100	0.683
106	Dundee Road, West Fork North Branch Chicago River	0.913	1.349	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	1.037	0.953	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.934	1.443	0.634	0.734	0.526	0.710	0.786	0.782	0.610	0.725	0.655
104	Glenview Road, North Branch Chicago River	0.705	0.707	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.831	1.040	0.565	0.652	0.575	0.492	0.620	0.643	0.500	0.708	0.709
105	Frontage Road, Skokie River	0.580	0.528	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.889	0.957	0.502	0.521	0.488	0.431	0.435	0.546	0.383	0.475	0.550
96	Albany Avenue, North Branch Chicago River	0.889	0.666	0.320	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.355	0.357	0.268	0.183	0.180	0.181	0.198	0.249	0.125	0.183	0.173
102	Oakton Street, North Shore Channel	0.466	0.560	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.310	0.284	0.178	0.136	0.107	0.101	0.139	0.137	0.118	0.118	0.075
101	Foster Avenue, North Shore Channel	0.347	0.295	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.490	0.450	0.248	0.210	0.178	0.152	0.203	0.233	0.158	0.150	0.150
73	Diversity Parkway, North Branch Chicago River	0.560	0.538	0.305	0.273	0.248	0.208	0.268	0.261	0.183	0.283	0.158
46	Grand Avenue, North Branch Chicago River	0.594	0.531	0.328	0.283	0.223	0.231	0.236	0.290	0.250	0.275	0.300
74	Lake Shore Drive, Chicago River	0.199	0.219	0.192	0.102	0.098	0.133	0.137	0.149	0.080	0.108	0.067
100	Wells Street, Chicago River	0.248	0.347	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.439	0.550	0.386	0.238	0.199	0.165	0.222	0.250	0.140	0.258	0.142
108	Loomis Street, South Branch Chicago River	0.417	0.461	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.599	0.822	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.258	0.269	0.212	0.223	0.246	0.447	0.183	0.358	0.250
107	Western Avenue, Chicago Sanitary & Ship Canal	0.507	0.717	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.545	0.621	0.379	0.313	0.225	0.243	0.268	0.278	0.225	0.275	0.217
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.330	0.331	0.262	0.210	0.141	0.153	0.161	0.239	0.192	0.167	0.183
42	Route 81, Chicago Sanitary & Ship Canal	0.336	0.324	0.182	0.170	0.132	0.224	0.173	0.274	0.364	0.167	0.158
48	Stephen Street, Chicago Sanitary & Ship Canal	0.429	0.466	0.316	0.222	0.261	0.277	0.333	0.370	0.283	0.350	0.492
82	Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	0.616	1.125	1.165	1.386	0.778	0.373	0.352	0.622	0.480
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.505	0.493	0.320	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.268	0.429	0.317	0.242	0.213	0.160	0.213	0.213	0.182	0.175	0.186
50	Burnham Avenue, Wolf Lake	0.134	0.203	0.123	0.118	0.134	0.081	0.114	0.115	0.183	0.092	0.133
55	130th Street, Calumet River	0.345	0.437	0.365	0.191	0.203	0.195	0.224	0.202	0.182	0.158	0.317
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	1.335	1.111	1.126	0.766	0.963	0.712	4.656	1.579	1.192	1.083	2.508
56	Indiana Avenue, Little Calumet River	1.014	0.633	0.470	0.395	0.334	0.412	0.551	0.564	0.545	0.625	0.433
76	Walstead Street, Little Calumet River	0.449	0.511	0.329	0.251	0.294	0.347	0.413	0.380	0.375	0.317	0.450
52	Wentworth Avenue, Little Calumet River	1.973	1.504	1.156	0.927	1.442	0.983	1.147	0.778	1.173	1.400	1.433
54	Joe Orr Road, Thorn Creek	0.445	0.594	0.433	0.262	0.447	0.368	0.223	0.266	0.242	0.475	0.325
97	170th Street, Thorn Creek	0.867	1.623	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.980	1.435	0.642	0.640	0.853	0.669	0.609	0.506	0.630	0.827	0.625
58	Ashland Avenue, Calumet Sag Channel	0.616	0.639	0.439	0.360	0.353	0.718	0.552	0.494	0.467	0.717	0.367
59	Cicero Avenue, Calumet Sag Channel	0.637	0.764	0.478	0.398	0.416	0.510	0.612	0.658	0.375	0.683	0.458
43	Route 83, Calumet Sag Channel	0.751	0.947	0.546	0.388	0.420	0.659	0.690	0.583	0.548	0.767	0.542
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.846	0.840	0.611	0.627	0.508	0.893	0.931	0.645	0.548	0.836	0.600
63	Longmeadow Lane, West Branch Du Page River	ND	1.256	0.844	0.672	0.749	0.614	0.955	0.944	0.590	0.792	0.627
89	Walnut Lane, West Branch Du Page River	0.432	0.477	0.417	0.285	0.228	0.220	0.408	0.548	0.300	0.342	0.317
64	Lake Street, West Branch Du Page River	0.894	1.062	0.773	0.577	0.536	0.627	0.734	0.666	0.473	0.583	0.433
79	Higgins Road, Salt Creek	1.448	1.119	0.858	0.760	0.737	0.815	0.971	0.668	0.590	0.864	0.564
80	Arlington Heights Road, Salt Creek	0.343	0.511	0.350	0.375	0.220	0.250	0.229	0.213	0.258	0.267	0.208
18	Devon Avenue, Salt Creek	0.434	0.660	0.518	0.583	0.248	0.425	0.298	0.278	0.317	0.300	0.250
24	Wolf Road, Salt Creek	0.662	0.859	0.621	0.557	0.478	0.598	0.602	0.542	0.658	0.658	0.517
109	Brookfield Avenue, Salt Creek	0.605	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.583	1.204	0.695	0.514	0.457	0.473	0.500	0.439	0.592	0.783	0.491
77	Elmhurst Road, Higgins Creek	1.179	1.127	0.733	0.812	0.748	0.704	1.029	0.956	1.055	0.708	0.645
78	Wille Road, Higgins Creek	0.417	0.334	0.214	0.103	0.415	0.181	0.333	0.337	0.273	0.225	0.050
12	Lake-Cook Road, Buffalo Creek	1.066	0.949	1.027	0.839	0.629	0.599	0.786	0.536	0.780	0.675	0.583
13	Lake-Cook Road, Des Plaines River	0.829	0.992	0.678	0.586	0.637	0.589	0.583	0.431	0.900	0.633	0.483
17	Oakton Street, Des Plaines River	0.632	1.024	0.770	0.577	0.586	0.688	0.504	0.541	0.700	0.667	0.545
19	Belmont Avenue, Des Plaines River	0.680	0.887	0.631	0.490	0.493	0.670	0.507	0.508	0.892	0.600	0.458
20	Roosevelt Road, Des Plaines River	0.749	0.760	0.632	0.514	0.463	0.648	0.483	0.460	0.533	0.667	0.450
22	Ogden Avenue, Des Plaines River	0.679	0.869	0.611	0.510	0.447	0.643	0.479	0.474	0.582	0.800	0.533
23	Willow Springs Road, Des Plaines River	0.611	1.007	0.652	0.557	0.577	0.596	0.550	0.507	0.473	0.617	0.525
29	Stephen Street, Des Plaines River	0.679	1.195	0.707	0.580	0.868	0.572	0.568	0.476	0.618	0.700	0.517
91	Material Service Road, Des Plaines River	0.754	1.216	0.669	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-88

SOLUBLE IRON MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.120	0.020	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.173	0.099	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.123	0.090	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.192	0.120	0.185	0.291	0.177	0.206	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.124	0.097	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.168	0.115	0.183	0.212	0.178	0.204	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.139	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.120	0.083	0.108	0.111	0.108	0.134	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.120	0.086	0.092	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.076	0.042	0.072	0.074	0.070	0.057	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.075	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.093	0.070	0.041	0.047	0.031	0.042	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.107	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.104	0.084	0.055	0.068	0.054	0.063	ND	ND	ND	ND	ND
73 Diverser Parkway, North Branch Chicago River	0.108	0.080	0.067	0.073	0.057	0.068	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.106	0.081	0.058	0.073	0.054	0.072	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.055	0.047	0.038	0.034	0.025	0.037	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.068	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.098	0.076	0.051	0.079	0.067	0.060	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.096	0.079	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.105	0.112	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.061	0.077	0.073	0.056	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.094	0.065	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.091	0.073	0.048	0.085	0.064	0.053	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.096	0.106	0.045	0.053	0.047	0.050	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.100	0.074	0.043	0.053	0.043	0.053	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.103	0.078	0.056	0.060	0.075	0.063	ND	ND	ND	ND	ND
82 Lockport Treblier, Chicago Sanitary & Ship Canal	ND	ND	0.058	0.062	0.123	0.025	0.019	0.006	0.008	0.049	0.026
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.100	0.079	0.048	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Swing Avenue, Calumet River	0.044	0.032	0.038	0.028	0.067	0.039	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.050	0.035	0.028	0.030	0.032	0.026	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.054	0.044	0.041	0.037	0.044	0.050	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.220	0.142	0.248	0.198	0.273	0.181	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.078	0.057	0.053	0.052	0.059	0.084	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.107	0.082	0.068	0.065	0.059	0.087	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.155	0.120	0.255	0.232	0.459	0.328	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.191	0.116	0.124	0.083	0.268	0.180	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.156	0.121	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.136	0.104	0.110	0.145	0.355	0.238	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.112	0.087	0.088	0.090	0.124	0.262	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.102	0.087	0.065	0.084	0.165	0.160	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.099	0.087	0.069	0.081	0.123	0.153	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.151	0.109	0.127	0.195	0.191	0.403	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.185	0.249	0.217	0.306	0.305	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.119	0.096	0.088	0.066	0.059	0.103	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.108	0.085	0.148	0.119	0.123	0.198	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.125	0.095	0.183	0.198	0.192	0.295	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.152	0.107	0.116	0.126	0.091	0.119	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.136	0.111	0.133	0.136	0.093	0.137	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.127	0.094	0.099	0.125	0.075	0.164	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.084	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.184	0.096	0.116	0.121	0.084	0.139	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.123	0.098	0.147	0.259	0.226	0.247	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.134	0.108	0.057	0.048	0.081	0.073	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.183	0.109	0.178	0.228	0.179	0.211	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.127	0.100	0.149	0.166	0.108	0.187	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.124	0.112	0.158	0.152	0.110	0.218	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.123	0.098	0.126	0.137	0.114	0.185	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.127	0.096	0.167	0.126	0.110	0.165	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.121	0.105	0.132	0.135	0.098	0.164	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.112	0.098	0.121	0.139	0.100	0.146	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.118	0.110	0.108	0.135	0.097	0.123	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.120	0.094	0.093	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-89

TOTAL LEAD MEAN HISTORY THROUGH 2002

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.000	0.000	ND	ND	ND	0.000	0.009	0.530	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.002	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.002	0.006	0.004	0.000	0.000	0.000	0.000	0.024	0.001	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.002	0.001	0.004	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000
105	Frontage Road, Skokie River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.002	0.003	0.000	0.000	0.000	0.000	0.005	0.027	0.004	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.002	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
102	Oakton Street, North Shore Channel	0.002	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.001	0.005	0.001	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000
101	Foster Avenue, North Shore Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.001	0.027	0.001	0.000	0.000	0.000	0.000	0.015	0.003	0.000	0.000
46	Grant Avenue, North Branch Chicago River	0.002	0.006	0.005	0.000	0.000	0.000	0.000	0.023	0.005	0.000	0.000
74	Lake Shore Drive, Chicago River	0.001	0.000	0.003	0.000	0.000	0.000	0.000	0.015	0.003	0.000	0.000
100	Wells Street, Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.002	0.000	0.003	0.000	0.000	0.004	0.000	0.005	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.003	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.009	0.000	0.000	0.003	0.000	0.006	0.002	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.000	0.006	0.004	0.000	0.003	0.000	0.031	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.003	0.254	0.000	0.003	0.000	0.000	0.011	0.000	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.002	0.000	0.003	0.000	0.000	0.000	0.000	0.019	0.004	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.000	0.004	0.000	0.000	0.017	0.008	0.010	0.000	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.004	0.005	0.007	0.008	0.000	0.001	0.004	0.004
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	130th Street, Calumet River	0.002	0.002	0.010	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.000	0.005	0.005	0.000	0.003	0.090	0.017	0.000	0.000	0.010
56	Indiana Avenue, Little Calumet River	0.003	0.003	0.003	0.000	0.000	0.009	0.000	0.005	0.000	0.000	0.000
76	Halsted Street, Little Calumet River	0.003	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.003	0.005	0.003	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000
54	Joe Cyr Road, Thorn Creek	0.000	0.003	0.008	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.002	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000
58	Ashland Avenue, Calumet Sag Channel	0.004	0.003	0.003	0.000	0.000	0.003	0.559	0.000	0.000	0.000	0.000
59	Cicero Avenue, Calumet Sag Channel	0.003	0.001	0.000	0.007	0.000	0.014	0.008	0.000	0.000	0.000	0.000
43	Route 83, Calumet Sag Channel	0.004	0.068	0.006	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.002	0.000	0.000	0.000	0.553	0.000	0.000	0.015	0.004	0.000	0.000
63	Longmeadow Lane, West Branch Du Page River	ND	0.000	0.003	0.000	0.000	0.000	0.004	0.023	0.002	0.000	0.000
89	Walnut Lane, West Branch Du Page River	0.009	0.000	0.003	0.000	0.358	0.000	0.003	0.017	0.000	0.000	0.000
64	Lake Street, West Branch Du Page River	0.002	0.000	0.004	0.000	0.000	0.000	0.001	0.018	0.005	0.000	0.000
79	Higgins Road, Salt Creek	0.003	0.052	0.004	0.000	0.000	0.000	0.000	0.019	0.008	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.001	0.000	0.008	0.000	0.000	0.000	0.002	0.011	0.000	0.000	0.000
18	Devon Avenue, Salt Creek	0.002	0.000	0.000	0.000	0.000	0.004	0.001	0.019	0.003	0.000	0.000
24	Wolf Road, Salt Creek	0.003	0.005	0.000	0.000	0.000	0.008	0.001	0.008	0.000	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.002	0.000	0.000	0.000	0.000	0.000	0.003	0.019	0.000	0.000	0.000
78	Wille Road, Higgins Creek	0.003	0.002	0.000	0.000	0.000	0.000	0.003	0.015	0.000	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.004	0.001	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.003	0.027	0.004	0.000	0.000	0.009	0.006	0.009	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.003	0.002	0.004	0.000	0.000	0.000	0.001	0.018	0.017	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.003	0.000	0.012	0.000	0.000	0.000	0.003	0.008	0.001	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.014	0.001	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.002	0.003	0.000	0.000	0.000	0.000	0.002	0.038	0.004	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.003	0.000	0.004	0.000	0.000	0.005	0.005	0.018	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.002	0.002	0.000	0.000	0.000	0.003	0.000	0.020	0.000	0.000	0.000
91	Material Service Road, Des Plaines River	0.002	0.007	0.003	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-90

SOLUBLE LEAD MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.000	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	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Traylor, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Indiana Avenue, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-91

TOTAL NICKEL MEAN HISTORY THROUGH 2002

Sampling Station No. Name		Annual Means (mg/L)										
		02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	0.005	0.020	ND	ND	ND	0.010	0.011	0.200	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.005	0.006	0.000	0.000	0.005	0.002	0.003	0.014	0.000	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.005	0.006	0.000	0.000	0.003	0.003	0.000	0.020	0.000	0.000	0.000
105	Frontage Road, Skokie River	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.004	0.004	0.001	0.000	0.003	0.003	0.001	0.016	0.000	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.005	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.002	0.003	0.000	0.000	0.003	0.001	0.001	0.010	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.004	0.006	0.004	0.000	0.005	0.008	0.001	0.009	0.000	0.000	0.000
101	Foster Avenue, North Shore Channel	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.005	0.007	0.007	0.000	0.005	0.005	0.002	0.013	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.009	0.008	0.004	0.000	0.006	0.008	0.006	0.017	0.000	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.008	0.007	0.004	0.000	0.008	0.009	0.004	0.013	0.000	0.000	0.000
74	Lake Shore Drive, Chicago River	0.003	0.007	0.003	0.000	0.007	0.005	0.002	0.010	0.000	0.000	0.000
100	Wells Street, Chicago River	0.004	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.007	0.008	0.004	0.003	0.004	0.004	0.004	0.016	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.003	0.000	0.005	0.005	0.002	0.013	0.000	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.006	0.005	0.005	0.001	0.003	0.003	0.003	0.012	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.008	0.005	0.003	0.000	0.003	0.004	0.006	0.014	0.000	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.009	0.006	0.005	0.003	0.004	0.006	0.005	0.020	0.000	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.009	0.006	0.005	0.000	0.005	0.006	0.003	0.018	0.000	0.000	0.000
82	Lockport Trebier, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.003	0.001	0.001	0.001	0.000	0.000	0.002	0.026
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.008	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.003	0.003	0.002	0.004	0.003	0.001	0.006	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.000	0.001	0.000	0.000	0.003	0.002	0.001	0.003	0.000	0.000	0.000
55	130th Street, Calumet River	0.002	0.004	0.001	0.002	0.002	0.003	0.000	0.005	0.000	0.000	0.000
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.009	0.006	0.002	0.003	0.003	0.006	0.007	0.018	0.000	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.006	0.002	0.003	0.002	0.004	0.007	0.001	0.005	0.000	0.000	0.000
76	Malstad Street, Little Calumet River	0.004	0.003	0.004	0.003	0.003	0.008	0.000	0.004	0.000	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.005	0.004	0.000	0.003	0.002	0.006	0.003	0.007	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.005	0.002	0.002	0.002	0.002	0.007	0.002	0.000	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.010	0.005	0.001	0.002	0.003	0.007	0.001	0.008	0.000	0.000	0.000
58	Ashland Avenue, Calumet Sag Channel	0.004	0.004	0.003	0.002	0.005	0.003	0.001	0.006	0.000	0.000	0.000
59	Cicero Avenue, Calumet Sag Channel	0.005	0.004	0.002	0.002	0.003	0.006	0.000	0.013	0.000	0.000	0.000
43	Route 83, Calumet Sag Channel	0.006	0.005	0.003	0.003	0.004	0.004	0.002	0.006	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.002	0.002	0.000	0.000	0.004	0.008	0.001	0.014	0.000	0.000	0.018
63	Longsadow Lane, West Branch Du Page River	ND	0.004	0.000	0.002	0.011	0.005	0.001	0.018	0.000	0.000	0.009
89	Walnut Lane, West Branch Du Page River	0.005	0.002	0.000	0.000	0.006	0.006	0.001	0.016	0.000	0.000	0.008
64	Lake Street, West Branch Du Page River	0.004	0.003	0.002	0.000	0.006	0.005	0.000	0.018	0.000	0.000	0.008
79	Higgins Road, Salt Creek	0.006	0.004	0.000	0.000	0.005	0.006	0.001	0.011	0.000	0.000	0.009
80	Arlington Heights Road, Salt Creek	0.005	0.003	0.000	0.000	0.006	0.007	0.001	0.014	0.000	0.000	0.008
18	Devon Avenue, Salt Creek	0.004	0.002	0.000	0.000	0.004	0.010	0.001	0.006	0.000	0.000	0.008
24	Wolf Road, Salt Creek	0.009	0.004	0.002	0.000	0.008	0.006	0.002	0.011	0.000	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.003	0.009	0.002	0.000	0.008	0.006	0.003	0.018	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.005	0.004	0.000	0.000	0.008	0.008	0.001	0.017	0.000	0.000	0.000
78	Wille Road, Higgins Creek	0.009	0.008	0.003	0.000	0.006	0.006	0.003	0.016	0.000	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.006	0.003	0.000	0.000	0.005	0.009	0.002	0.017	0.000	0.000	0.008
13	Lake-Cook Road, Des Plaines River	0.005	0.003	0.000	0.000	0.006	0.008	0.001	0.016	0.000	0.000	0.008
17	Oakton Street, Des Plaines River	0.005	0.003	0.000	0.000	0.004	0.003	0.001	0.010	0.000	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.006	0.003	0.000	0.000	0.005	0.003	0.000	0.016	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.007	0.003	0.002	0.000	0.003	0.005	0.002	0.018	0.000	0.000	0.042
22	Ogden Avenue, Des Plaines River	0.008	0.004	0.000	0.000	0.002	0.008	0.000	0.012	0.000	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.007	0.004	0.002	0.000	0.003	0.005	0.000	0.011	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.007	0.003	0.002	0.000	0.004	0.004	0.001	0.019	0.000	0.000	0.008
91	Material Service Road, Des Plaines River	0.007	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-92

SOLUBLE NICKEL MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.002	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.003	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	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.008	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.007	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-93

TOTAL MANGANESE MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.122	0.139	ND	ND	ND	0.088	0.077	1.945	0.089	0.084
106 Dundee Road, West Fork North Branch Chicago River	0.067	0.110	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.091	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.148	0.107	0.080	0.217	0.079	0.177	0.183	0.094	0.132	0.090	0.122
104 Glenview Road, North Branch Chicago River	0.060	0.078	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.096	0.131	0.100	0.162	0.115	0.123	0.163	0.082	0.101	0.103	0.104
105 Frontage Road, Skokie River	0.046	0.057	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.083	0.098	0.067	0.059	0.067	0.066	0.130	0.057	0.065	0.073	0.078
96 Albany Avenue, North Branch Chicago River	0.057	0.068	0.035	ND	ND	ND	ND	ND	ND	ND	ND
15 Central Street, North Shore Channel	0.028	0.037	0.021	0.024	0.017	0.026	0.028	0.019	0.008	0.013	0.009
102 Oakton Street, North Shore Channel	0.026	0.036	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.034	0.038	0.029	0.018	0.015	0.031	0.033	0.019	0.014	0.013	0.008
101 Foster Avenue, North Shore Channel	0.027	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.035	0.047	0.042	0.048	0.029	0.028	0.034	0.024	0.025	0.025	0.022
73 Diversay Parkway, North Branch Chicago River	0.036	0.053	0.081	0.027	0.045	0.164	0.042	0.024	0.025	0.043	0.017
46 Grand Avenue, North Branch Chicago River	0.042	0.042	0.044	0.026	0.052	0.026	0.026	0.034	0.021	0.033	0.030
74 Lake Shore Drive, Chicago River	0.017	0.020	0.035	0.010	0.009	0.015	0.010	0.017	0.007	0.032	0.009
100 Wells Street, Chicago River	0.021	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.036	0.037	0.039	0.027	0.021	0.019	0.027	0.025	0.022	0.023	0.011
108 Loomis Street, South Branch Chicago River	0.035	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.048	0.062	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.038	0.028	0.024	0.024	0.023	0.034	0.023	0.031	0.023
107 Western Avenue, Chicago Sanitary & Ship Canal	0.041	0.070	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.040	0.045	0.047	0.027	0.022	0.034	0.033	0.029	0.024	0.033	0.014
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.036	0.030	0.046	0.022	0.019	0.018	0.062	0.024	0.029	0.028	0.013
42 Route 43, Chicago Sanitary & Ship Canal	0.039	0.029	0.028	0.025	0.013	0.024	0.025	0.048	0.053	0.032	0.018
48 Stephen Street, Chicago Sanitary & Ship Canal	0.043	0.050	0.049	0.033	0.026	0.040	0.045	0.036	0.050	0.053	0.042
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	0.049	0.083	0.066	0.093	0.078	0.035	0.019	0.046	0.032
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.053	0.045	0.074	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.022	0.030	0.024	0.029	0.028	0.014	0.042	0.082	0.021	0.019	0.019
50 Burnham Avenue, Wolf Lake	0.028	0.043	0.044	0.058	0.062	0.063	0.070	0.046	0.066	0.082	0.058
55 130th Street, Calumet River	0.031	0.046	0.037	0.031	0.038	0.037	0.082	0.035	0.028	0.029	0.032
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.098	0.093	0.090	0.058	0.044	0.052	0.159	0.118	0.196	0.113	0.165
56 Indiana Avenue, Little Calumet River	0.086	0.041	0.040	0.057	0.038	0.040	0.074	0.053	0.077	0.108	0.061
76 Halsted Street, Little Calumet River	0.053	0.068	0.058	0.056	0.045	0.046	0.070	0.078	0.068	0.087	0.094
52 Wentworth Avenue, Little Calumet River	0.134	0.145	0.138	0.130	0.149	0.109	0.196	0.104	0.172	0.160	0.175
54 Joe Orr Road, Thorn Creek	0.073	0.070	0.065	0.062	0.043	0.146	0.056	0.041	0.058	0.080	0.106
97 170th Street, Thorn Creek	0.102	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.104	0.126	0.093	0.100	0.098	0.089	0.089	0.082	0.098	0.130	0.117
58 Ashland Avenue, Calumet Sag Channel	0.066	0.071	0.069	0.078	0.053	0.048	0.121	0.096	0.073	0.096	0.077
59 Cicero Avenue, Calumet Sag Channel	0.073	0.078	0.064	0.065	0.058	0.060	0.104	0.080	0.078	0.092	0.079
43 Route 43, Calumet Sag Channel	0.063	0.076	0.063	0.061	0.053	0.064	0.077	0.066	0.085	0.093	0.071
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.103	0.107	0.155	0.068	0.164	0.208	0.136	0.113	0.104	0.119	0.120
63 Longmeadow Lane, West Branch Du Page River	ND	0.151	0.118	0.073	0.174	0.108	0.132	0.128	0.092	0.093	0.115
89 Walnut Lane, West Branch Du Page River	0.074	0.074	0.105	0.038	0.080	0.133	0.053	0.065	0.044	0.050	0.046
64 Lake Street, West Branch Du Page River	0.069	0.092	0.065	0.061	0.068	0.111	0.090	0.067	0.075	0.074	0.056
79 Higgins Road, Salt Creek	0.134	0.124	0.092	0.091	0.092	0.252	0.119	0.093	0.107	0.105	0.117
80 Arlington Heights Road, Salt Creek	0.051	0.051	0.061	0.050	0.064	0.115	0.058	0.051	0.063	0.058	0.048
18 Devon Avenue, Salt Creek	0.052	0.055	0.085	0.069	0.050	0.153	0.061	0.048	0.059	0.063	0.054
24 Wolf Road, Salt Creek	0.066	0.077	0.087	0.065	0.063	0.064	0.087	0.065	0.081	0.068	0.049
109 Brookfield Avenue, Salt Creek	0.042	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.065	0.101	0.061	0.055	0.068	0.058	0.076	0.063	0.084	0.075	0.056
77 Elmhurst Road, Higgins Creek	0.120	0.163	0.133	0.112	0.136	0.111	0.140	0.135	0.164	0.106	0.165
78 Wille Road, Higgins Creek	0.048	0.038	0.064	0.022	0.093	0.043	0.063	0.038	0.032	0.031	0.023
12 Lake-Cook Road, Buffalo Creek	0.458	0.116	0.148	0.168	0.165	0.195	0.197	0.137	0.178	0.128	0.123
13 Lake-Cook Road, Des Plaines River	0.089	0.090	0.071	0.065	0.111	0.218	0.094	0.069	0.092	0.091	0.073
17 Oakton Street, Des Plaines River	0.089	0.102	0.093	0.071	0.098	0.077	0.088	0.083	0.073	0.094	0.086
19 Belmont Avenue, Des Plaines River	0.079	0.090	0.069	0.059	0.096	0.074	0.094	0.080	0.093	0.080	0.077
20 Roosevelt Road, Des Plaines River	0.145	0.077	0.065	0.061	0.080	0.073	0.080	0.070	0.091	0.089	0.078
22 Ogden Avenue, Des Plaines River	0.066	0.075	0.060	0.056	0.068	0.072	0.072	0.091	0.118	0.093	0.066
23 Willow Springs Road, Des Plaines River	0.062	0.083	0.093	0.062	0.083	0.065	0.250	0.085	0.077	0.063	0.072
29 Stephen Street, Des Plaines River	0.060	0.086	0.081	0.064	0.078	0.072	0.078	0.073	0.086	0.076	0.083
91 Material Service Road, Des Plaines River	0.065	0.097	0.061	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-94

SOLUBLE MANGANESE MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	0.034	0.057	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.047	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.111	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.023	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Skokie River	0.066	0.073	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.013	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.032	0.037	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.023	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.012	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.013	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.017	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.018	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversy Parkway, North Branch Chicago River	0.019	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.023	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.009	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.012	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.023	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.023	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.033	0.042	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	0.025	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.022	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.024	0.028	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	0.030	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.004	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.078	0.057	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.011	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.031	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.094	0.089	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.054	0.038	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.046	0.043	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.063	0.058	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.043	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.044	0.044	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.034	0.043	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.057	0.063	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.048	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.036	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.034	0.041	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.018	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.020	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.035	0.034	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.037	0.035	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.073	0.099	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.022	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.054	0.048	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.029	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.034	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.052	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.050	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.027	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.028	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.021	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.016	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-95

TOTAL MERCURY MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (µg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.000	0.000	ND	ND	ND	0.000	0.033	0.106	0.044	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.028	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.045	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.015	0.007	0.000	0.019	0.044	0.030	0.125	0.030	0.040	0.017	0.000
104 Glenview Road, North Branch Chicago River	0.034	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.040	0.005	0.024	0.035	0.038	0.050	0.000	0.022	0.044	0.033	0.000
105 Frontage Road, Skokie River	0.030	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.031	0.000	0.022	0.037	0.040	0.036	0.000	0.030	0.036	0.033	0.000
96 Albany Avenue, North Branch Chicago River	0.023	0.013	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.038	0.006	0.000	0.012	0.028	0.040	0.000	0.000	0.025	0.017	0.000
102 Oakton Street, North Shore Channel	0.025	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.018	0.028	0.017	0.006	0.033	0.058	0.000	0.042	0.045	0.000	0.000
101 Foster Avenue, North Shore Channel	0.026	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.024	0.018	0.008	0.016	0.043	0.075	0.000	0.025	0.032	0.025	0.000
73 Diversy Parkway, North Branch Chicago River	0.035	0.013	0.059	0.036	0.043	0.092	0.000	0.033	0.025	0.017	0.000
46 Grand Avenue, North Branch Chicago River	0.046	0.000	0.028	0.021	0.043	0.095	0.008	0.086	0.009	0.033	0.000
74 Lake Shore Drive, Chicago River	0.020	0.000	0.015	0.025	0.044	0.009	0.036	0.000	0.010	0.017	0.000
100 Wells Street, Chicago River	0.013	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.031	0.000	0.029	0.028	0.033	0.009	0.000	0.000	0.040	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.018	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.018	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.011	0.017	0.031	0.008	0.000	0.022	0.025	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.018	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.011	0.003	0.028	0.022	0.043	0.067	0.000	0.008	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.015	0.016	0.026	0.018	0.034	0.017	0.025	0.000	0.000	0.033	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.007	0.005	0.015	0.018	0.033	0.050	0.000	0.025	0.045	0.017	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.008	0.000	0.005	0.006	0.026	0.017	0.033	0.008	0.008	0.033	0.000
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	0.007	0.021	0.000	0.008	0.004	0.017	0.006	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.026	0.013	0.009	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.018	0.004	0.013	0.008	0.030	0.033	0.020	0.050	0.027	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.021	0.009	0.010	0.021	0.027	0.033	0.017	0.064	0.058	0.000	0.000
55 130th Street, Calumet River	0.031	0.014	0.000	0.035	0.033	0.067	0.030	0.060	0.045	0.033	0.000
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.055	0.032	0.000	0.051	0.128	0.083	1.518	0.133	0.100	0.042	0.100
56 Indiana Avenue, Little Calumet River	0.034	0.021	0.008	0.029	0.041	0.064	0.020	0.000	0.018	0.017	0.000
76 Halsted Street, Little Calumet River	0.047	0.003	0.005	0.038	0.033	0.375	0.000	0.036	0.050	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.034	0.024	0.015	0.016	0.033	0.050	0.044	0.022	0.045	0.017	0.025
54 Joe Orr Road, Thorn Creek	0.044	0.004	0.000	0.035	0.036	0.042	0.000	0.009	0.067	0.000	0.000
97 170th Street, Thorn Creek	0.018	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.041	0.020	0.000	0.040	0.042	0.050	0.011	0.010	0.020	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.009	0.008	0.014	0.014	0.014	0.933	0.008	0.020	0.033	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.021	0.013	0.016	0.013	0.035	0.092	0.000	0.064	0.042	0.033	0.000
43 Route 83, Calumet Sag Channel	0.028	0.018	0.008	0.016	0.040	0.083	0.000	0.018	0.027	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.028	0.027	0.000	0.021	0.505	0.122	0.018	0.030	0.036	0.018	0.000
63 Longmeadow Lane, West Branch Du Page River	ND	0.000	0.000	0.012	0.041	0.030	0.018	0.017	0.040	0.033	0.000
89 Walnut Lane, West Branch Du Page River	0.024	0.009	0.017	0.053	0.328	0.042	0.008	0.017	0.017	0.000	0.000
64 Lake Street, West Branch Du Page River	0.029	0.009	0.007	0.060	0.021	0.058	0.009	0.025	0.045	0.033	0.000
79 Higgins Road, Salt Creek	0.051	0.005	0.018	0.058	0.062	0.055	0.010	0.000	0.010	0.055	0.000
80 Arlington Heights Road, Salt Creek	0.030	0.009	0.000	0.057	0.067	0.050	0.008	0.025	0.030	0.000	0.000
18 Devon Avenue, Salt Creek	0.008	0.012	0.000	0.061	0.035	0.067	0.008	0.017	0.017	0.000	0.000
24 Wolf Road, Salt Creek	0.045	0.014	0.000	0.044	0.077	0.033	0.033	0.042	0.000	0.017	0.000
109 Brookfield Avenue, Salt Creek	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.000	0.009	0.000	0.062	0.019	0.027	0.017	0.017	0.064	0.050	0.000
77 Elmhurst Road, Higgins Creek	0.030	0.015	0.000	0.045	0.053	0.036	0.050	0.008	0.012	0.000	0.000
78 Wille Road, Higgins Creek	0.018	0.017	0.008	0.050	0.019	0.033	0.017	0.008	0.015	0.033	0.000
12 Lake-Cook Road, Buffalo Creek	0.039	0.010	0.000	0.068	0.045	0.055	0.008	0.025	0.030	0.017	0.000
13 Lake-Cook Road, Des Plaines River	0.023	0.016	0.000	0.056	0.058	0.045	0.000	0.050	0.067	0.017	0.000
17 Oakton Street, Des Plaines River	0.028	0.019	0.000	0.079	0.036	0.018	0.033	0.009	0.000	0.050	0.000
19 Belmont Avenue, Des Plaines River	0.041	0.000	0.000	0.062	0.052	0.025	0.025	0.000	0.025	0.017	0.000
20 Roosevelt Road, Des Plaines River	0.038	0.011	0.000	0.064	0.051	0.025	0.025	0.000	0.042	0.017	0.000
22 Ogden Avenue, Des Plaines River	0.055	0.017	0.000	0.064	0.012	0.017	0.000	0.033	0.045	0.033	0.000
23 Willow Springs Road, Des Plaines River	0.090	0.033	0.000	0.095	0.025	0.055	0.055	0.000	0.045	0.033	0.000
29 Stephen Street, Des Plaines River	0.044	0.029	0.000	0.065	0.033	0.017	0.000	0.017	0.055	0.033	0.000
91 Material Service Road, Des Plaines River	0.033	0.016	0.002	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-96

SOLUBLE MERCURY MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (µg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.013	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.032	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.058	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.038	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.030	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversay Parkway, North Branch Chicago River	0.027	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.090	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.030	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.000	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	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.033	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	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	0.013	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.028	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.026	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Malated Street, Little Calumet River	0.019	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.018	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.023	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.022	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.028	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.013	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.007	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.003	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.033	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.005	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.025	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.048	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.020	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.015	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.004	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.018	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.003	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.018	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-97

TOTAL ZINC MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.070	0.079	ND	ND	ND	0.033	0.024	0.000	0.000	0.025
106 Dundee Road, West Fork North Branch Chicago River	0.031	0.091	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.046	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.022	0.056	0.020	0.027	0.005	0.019	0.013	0.006	0.000	0.000	0.009
104 Glenview Road, North Branch Chicago River	0.035	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.029	0.049	0.024	0.032	0.009	0.020	0.028	0.010	0.000	0.008	0.018
105 Frontage Road, Skokie River	0.043	0.038	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.042	0.040	0.036	0.058	0.008	0.025	0.035	0.012	0.018	0.008	0.017
96 Albany Avenue, North Branch Chicago River	0.038	0.041	0.038	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.028	0.023	0.015	0.007	0.001	0.009	0.012	0.004	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.037	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.058	0.055	0.047	0.037	0.017	0.038	0.043	0.014	0.027	0.000	0.025
101 Foster Avenue, North Shore Channel	0.044	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.042	0.055	0.046	0.033	0.013	0.028	0.039	0.015	0.008	0.013	0.017
73 Diversey Parkway, North Branch Chicago River	0.045	0.056	0.062	0.043	0.020	0.057	0.053	0.013	0.000	0.000	0.017
46 Grand Avenue, North Branch Chicago River	0.049	0.049	0.049	0.035	0.015	0.034	0.028	0.023	0.017	0.008	0.017
74 Lake Shore Drive, Chicago River	0.023	0.039	0.031	0.011	0.008	0.025	0.006	0.006	0.000	0.000	0.000
100 Wells Street, Chicago River	0.028	0.044	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.077	0.061	0.043	0.028	0.011	0.024	0.027	0.016	0.000	0.017	0.017
108 Loomis Street, South Branch Chicago River	0.040	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.044	0.055	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.039	0.023	0.012	0.028	0.023	0.039	0.017	0.017	0.008
107 Western Avenue, Chicago Sanitary & Ship Canal	0.045	0.078	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.046	0.057	0.046	0.033	0.012	0.032	0.033	0.016	0.025	0.008	0.008
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.038	0.046	0.047	0.036	0.013	0.033	0.036	0.021	0.042	0.008	0.033
42 Route 83, Chicago Sanitary & Ship Canal	0.045	0.048	0.036	0.031	0.018	0.046	0.037	0.023	0.036	0.017	0.008
48 Stephen Street, Chicago Sanitary & Ship Canal	0.046	0.052	0.046	0.028	0.015	0.041	0.043	0.024	0.025	0.017	0.025
82 Lockport Trebier, Chicago Sanitary & Ship Canal	ND	ND	0.075	0.094	0.162	0.141	0.133	0.069	0.049	0.057	0.023
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.050	0.049	0.053	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.021	0.030	0.022	0.025	0.013	0.008	0.027	0.011	0.009	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.013	0.026	0.015	0.013	0.008	0.007	0.016	0.003	0.008	0.000	0.000
55 130th Street, Calumet River	0.025	0.044	0.022	0.015	0.019	0.032	0.028	0.014	0.009	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.087	0.075	0.078	0.080	0.103	0.068	0.296	0.102	0.075	0.075	0.213
56 Indiana Avenue, Little Calumet River	0.051	0.034	0.040	0.032	0.028	0.025	0.031	0.018	0.009	0.017	0.000
76 Halsted Street, Little Calumet River	0.065	0.066	0.047	0.027	0.034	0.036	0.133	0.056	0.033	0.017	0.025
52 Wentworth Avenue, Little Calumet River	0.064	0.046	0.045	0.028	0.023	0.031	0.054	0.021	0.018	0.000	0.033
54 Joe Orr Road, Thorn Creek	0.054	0.065	0.060	0.041	0.032	0.054	0.042	0.025	0.025	0.008	0.017
97 170th Street, Thorn Creek	0.054	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.041	0.052	0.060	0.031	0.063	0.032	0.026	0.018	0.010	0.027	0.008
58 Ashland Avenue, Calumet Sag Channel	0.055	0.066	0.064	0.030	0.028	0.032	0.095	0.063	0.008	0.033	0.033
59 Cicero Avenue, Calumet Sag Channel	0.053	0.050	0.044	0.036	0.034	0.038	0.054	0.046	0.042	0.033	0.025
43 Route 83, Calumet Sag Channel	0.051	0.064	0.062	0.035	0.042	0.064	0.057	0.030	0.045	0.050	0.033
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.027	0.024	0.012	0.015	0.015	0.037	0.021	0.019	0.000	0.009	0.000
63 Longmeadow Lane, West Branch Du Page River	ND	0.041	0.022	0.036	0.023	0.035	0.040	0.043	0.000	0.017	0.000
89 Walnut Lane, West Branch Du Page River	0.069	0.061	0.047	0.042	0.059	0.042	0.038	0.058	0.008	0.017	0.017
64 Lake Street, West Branch Du Page River	0.045	0.066	0.037	0.029	0.039	0.040	0.053	0.038	0.018	0.033	0.017
79 Higgins Road, Salt Creek	0.023	0.027	0.018	0.020	0.006	0.027	0.026	0.020	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.031	0.039	0.034	0.027	0.016	0.031	0.019	0.022	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.035	0.035	0.034	0.033	0.014	0.028	0.017	0.023	0.000	0.008	0.000
24 Wolf Road, Salt Creek	0.061	0.054	0.143	0.052	0.045	0.031	0.032	0.032	0.027	0.006	0.008
109 Brookfield Avenue, Salt Creek	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.049	0.059	0.038	0.041	0.029	0.026	0.030	0.031	0.027	0.025	0.009
77 Elmhurst Road, Higgins Creek	0.040	0.041	0.032	0.025	0.029	0.015	0.038	0.032	0.036	0.000	0.009
78 Wille Road, Higgins Creek	0.075	0.062	0.067	0.045	0.062	0.043	0.045	0.050	0.036	0.033	0.033
12 Lake-Cook Road, Buffalo Creek	0.032	0.035	0.020	0.023	0.011	0.026	0.012	0.020	0.020	0.008	0.000
13 Lake-Cook Road, Des Plaines River	0.039	0.036	0.030	0.023	0.021	0.063	0.028	0.022	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.038	0.037	0.033	0.025	0.024	0.014	0.023	0.029	0.033	0.008	0.000
19 Belmont Avenue, Des Plaines River	0.044	0.041	0.030	0.025	0.031	0.023	0.021	0.030	0.017	0.008	0.008
20 Roosevelt Road, Des Plaines River	0.047	0.038	0.029	0.033	0.023	0.028	0.025	0.033	0.017	0.017	0.017
22 Ogden Avenue, Des Plaines River	0.043	0.050	0.047	0.040	0.025	0.033	0.031	0.033	0.018	0.008	0.008
23 Willow Springs Road, Des Plaines River	0.037	0.048	0.056	0.035	0.033	0.039	0.032	0.025	0.009	0.017	0.008
29 Stephen Street, Des Plaines River	0.041	0.047	0.043	0.031	0.026	0.031	0.030	0.040	0.036	0.033	0.000
91 Material Service Road, Des Plaines River	0.037	0.049	0.046	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-98

SOLUBLE ZINC MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundas Road, West Fork North Branch Chicago River	0.010	0.035	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.012	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.017	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.009	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.021	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.017	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.017	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.020	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.032	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.027	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.025	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.025	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.028	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.013	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.014	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.023	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.023	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.019	0.013	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	0.023	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.021	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Karlov Avenue, Chicago Sanitary & Ship Canal	0.022	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.028	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.025	0.020	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	0.025	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.031	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.015	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.032	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.018	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.036	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.030	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.014	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.024	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.025	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.023	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.036	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.026	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.019	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.019	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.029	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.028	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.013	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.048	0.043	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.007	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.017	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.016	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.024	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.023	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.022	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.019	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.020	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.018	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-99

TOTAL SELENIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	0.000	0.000	ND	ND	ND	0.000	0.000	0.000	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.007	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.009	0.002	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.006	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.013	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.017	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73 Diversay Parkway, North Branch Chicago River	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.009	0.003	0.000	0.000	0.000	0.024	0.000	0.024	0.000	0.000	0.000
100 Wells Street, Chicago River	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.010	0.003	0.000	0.000	0.000	0.019	0.000	0.007	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.010	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.008	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.010	0.007	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.006	0.004	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.008	0.005	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.009	0.007	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000
82 Lockport Trawler, Chicago Sanitary & Ship Canal	ND	ND	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.009	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.008	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
51 IHS Nail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.009	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.006	0.008	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.012	0.008	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.009	0.003	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.008	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.012	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.011	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.010	0.004	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	ND	0.005	0.000	0.000	0.000	0.003	0.002	0.013	0.000	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.010	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64 Lake Street, West Branch Du Page River	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.003	0.011	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.016	0.010	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.003	0.012	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.020	0.007	0.000	0.000	0.000	0.000	0.001	0.020	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.008	0.008	0.000	0.000	0.000	0.000	0.003	0.023	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.010	0.007	0.000	0.000	0.000	0.017	0.000	0.007	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.007	0.010	0.020	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.007	0.009	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.010	0.003	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.008	0.008	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.006	0.007	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.017	0.008	0.000	0.000	0.000	0.000	0.001	0.007	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.006	0.005	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.003	0.005	0.005	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-100

SOLUBLE SELENIUM MEAN HISTORY THROUGH 2002

Sampling Station No. Name	Annual Means (mg/L)										
	02	01	00	99	98	97	96	95	94	93	92
<u>Chicago River System</u>											
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	0.007	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.007	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.000	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	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 170th Street, Thorn Creek	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 Ashland Avenue, Little Calumet River	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch Du Page River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

APPENDIX III

SIGNIFICANCE TESTS ON 2001 UPSTREAM AND DOWNSTREAM SAMPLE MEANS

SIGNIFICANCE PROBABILITIES ASSOCIATED WITH APPROPRIATE TEST

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-1

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
 FOR NORTH SIDE WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
BOD ₅ (mg/L)	2.56	6.58	0.322	0.288	0.002	0.003	0.002
CBOD ₅ (mg/L)	1.11	2.00	0.000	-	-	0.296	0.296
DO (mg/L)	7.34	6.90	0.859	0.030	0.529	0.722	0.529
Temp (°C)	14.3	16.5	0.060	0.313	0.517	0.365	0.517
pH	7.90	7.38	0.077	0.455	0.046	0.038	0.046
Alk (mg/L)	119	149	0.034	-	-	0.025	0.025
Cl (mg/L)	64	105	0.025	-	-	0.030	0.030
Turb (NTU)	10.6	8.1	0.000	-	-	0.286	0.286
TKN (mg/L)	1.02	2.60	0.198	0.339	0.001	0.007	0.001
NH ₄ -N (mg/L)	0.313	0.987	0.041	-	-	0.003	0.003
NH ₃ -N (mg/L)	0.008	0.013	0.000	-	-	0.880	0.880
ORG-N (mg/L)	0.71	1.61	0.220	0.097	0.004	0.006	0.004
NO ₂ +NO ₃ (mg/L)	0.34	5.58	0.004	-	-	0.000	0.000
TS (mg/L)	321	461	0.170	0.025	0.105	0.030	0.105
TSS (mg/L)	12.8	15.3	0.001	-	-	0.803	0.803
VSS (mg/L)	3.78	5.08	0.025	-	-	0.087	0.087
TDS (mg/L)	309	446	0.157	0.033	0.110	0.030	0.110
Phenol (µg/L)	4.5	9.0	0.664	0.014	0.056	0.022	0.056
SO ₄ (mg/L)	34.9	53.3	0.488	0.075	0.003	0.014	0.003
FOG (mg/L)	-	5.54	0.629	-	-	-	-
T.P (mg/L)	0.101	1.057	0.028	-	-	0.000	0.000
CN (mg/L)	0.000	0.004	0.002	-	-	0.003	0.003
WAD-CN (mg/L)	0.000	0.001	0.045	-	-	0.000	0.000
F (mg/L)	0.307	0.749	0.088	0.010	0.004	0.003	0.004

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-1 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
 FOR NORTH SIDE WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
TOC (mg/L)	5.33	8.83	0.092	0.241	0.000	0.003	0.000
FC (#/100 ml)*	483	8349	0.002	-	-	0.001	0.001
EColi (#/100 ml)*	4382	9539	0.803	0.211	0.086	0.105	0.086
Ca (mg/L)	43.6	58.5	0.281	0.424	0.014	0.012	0.014
Sol.Ca (mg/L)	39.5	54.8	0.224	0.381	0.010	0.012	0.010
Mg (mg/L)	15.2	21.2	0.098	0.482	0.026	0.012	0.026
Sol.Mg (mg/L)	13.8	19.9	0.067	0.383	0.022	0.012	0.022
Hard (mg/L)	171	233	0.194	0.445	0.018	0.012	0.018
G.Alpha (pCi/L)	3.40	3.72	0.620	0.162	0.428	0.286	0.428
G.Beta (pCi/L)	6.79	7.94	0.000	-	-	0.025	0.025
Chlrphl (µg/L)	12.5	1.5	0.000	-	-	0.188	0.188
Ag (mg/L)	0.001	0.002	0.000	-	-	0.349	0.349
Sol.Ag (mg/L)	0.001	0.001	0.000	-	-	0.924	0.924
As (mg/L)	0.002	0.002	0.000	-	-	0.944	0.944
Sol.As (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Ba (mg/L)	0.030	0.024	0.110	0.375	0.049	0.017	0.049
Sol.Ba (mg/L)	0.022	0.019	0.046	-	-	0.110	0.110
B (mg/L)	0.052	0.185	0.016	-	-	0.000	0.000
Sol.B (mg/L)	0.030	0.169	0.007	-	-	0.000	0.000
Cd (mg/L)	0.000	0.001	0.000	-	-	0.125	0.125
Sol.Cd (mg/L)	0.000	0.000	0.000	-	-	0.374	0.374
Cu (mg/L)	0.023	0.024	0.001	-	-	0.831	0.831
Sol.Cu (mg/L)	0.006	0.006	0.022	-	-	0.717	0.717
Cr (mg/L)	0.008	0.004	0.000	-	-	0.899	0.899

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-1 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR NORTH SIDE WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
Sol.Cr (mg/L)	0.003	0.002	0.000	-	-	0.966	0.966
Cr ⁺⁶ (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	0.355	0.310	0.057	0.119	0.517	0.859	0.517
Sol.Fe (mg/L)	0.076	0.093	0.635	0.345	0.360	0.434	0.360
Pb (mg/L)	0.002	0.001	0.000	-	-	0.716	0.716
Sol.Pb (mg/L)	0.001	0.001	0.000	-	-	0.849	0.849
Ni (mg/L)	0.002	0.004	0.097	0.319	0.074	0.091	0.074
Sol.Ni (mg/L)	0.001	0.003	0.024	-	-	0.026	0.026
Mn (mg/L)	0.028	0.034	0.000	-	-	0.644	0.644
Sol.Mn (mg/L)	0.012	0.017	0.000	-	-	0.110	0.110
Hg (µg/L)	0.038	0.018	0.000	-	-	0.221	0.221
Sol.Hg (µg/L)	0.008	0.030	0.001	-	-	0.223	0.223
Zn (mg/L)	0.028	0.058	0.000	-	-	0.020	0.020
Sol.Zn (mg/L)	0.007	0.032	0.192	0.057	0.000	0.000	0.000
Se (mg/L)	0.008	0.008	0.000	-	-	0.966	0.966
Sol.Se (mg/L)	0.005	0.005	0.000	-	-	1.000	1.000

¹Significance probability <=0.05 indicates that up and down populations are not normal.

²Significance probability <=0.05 indicates that Variances are unequal.

³Significance probability <=0.05 indicates that means are unequal if t-test is used.

⁴Significance probability <=0.05 indicates that means are unequal if Wilcoxon test is used.

⁵Significance probability <=0.05 indicates that means are unequal using applicable test.

*Geometric Mean

- = No data or statistics, or applicable test exists.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-2

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR STICKNEY WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
BOD ₅ (mg/L)	2.58	2.25	0.002	-	-	0.762	0.762
CBOD ₅ (mg/L)	0.75	0.50	0.000	-	-	0.652	0.652
DO (mg/L)	5.18	6.95	0.248	0.479	0.003	0.006	0.003
Temp (°C)	18.8	16.9	0.094	0.360	0.463	0.424	0.463
pH	7.16	7.17	0.204	0.021	0.988	0.804	0.988
Alk (mg/L)	153	137	0.000	-	-	0.470	0.470
Cl (mg/L)	130	124	0.016	-	-	0.795	0.795
Turb (NTU)	10.6	8.3	0.852	0.138	0.008	0.008	0.008
TKN (mg/L)	2.15	1.68	0.010	-	-	0.194	0.194
NH ₄ -N (mg/L)	0.869	0.534	0.001	-	-	0.023	0.023
NH ₃ -N (mg/L)	0.019	0.003	0.000	-	-	0.117	0.117
ORG-N (mg/L)	1.28	1.15	0.078	0.003	0.477	0.470	0.477
NO ₂ +NO ₃ (mg/L)	4.30	6.81	0.407	0.252	0.011	0.026	0.011
TS (mg/L)	498	506	0.047	-	-	0.544	0.544
TSS (mg/L)	15.1	11.6	0.328	0.227	0.029	0.031	0.029
VSS (mg/L)	3.00	2.92	0.002	-	-	0.667	0.667
TDS (mg/L)	483	495	0.048	-	-	0.507	0.507
Phenol (µg/L)	7.7	6.8	0.312	0.473	0.431	0.620	0.431
SO ₄ (mg/L)	54.3	69.4	0.608	0.492	0.021	0.021	0.021
FOG (mg/L)	5.57	5.16	0.004	-	-	0.583	0.583
T.P (mg/L)	0.723	0.984	0.021	-	-	0.184	0.184
CN (mg/L)	0.003	0.005	0.000	-	-	0.139	0.139
WAD-CN (mg/L)	0.001	0.001	0.048	-	-	1.000	1.000
F (mg/L)	0.578	0.743	0.542	0.174	0.026	0.040	0.026

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-2 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR STICKNEY WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
TOC (mg/L)	7.50	7.92	0.052	0.264	0.467	0.527	0.467
FC (#/100 ml)*	245	3609	0.074	0.012	0.000	0.000	0.000
EColi (#/100 ml)*	224	2925	0.763	0.259	0.014	0.030	0.014
Ca (mg/L)	59.9	57.3	0.003	-	-	0.817	0.817
Sol.Ca (mg/L)	52.5	52.4	0.661	0.045	0.981	0.862	0.981
Mg (mg/L)	21.9	21.1	0.001	-	-	0.885	0.885
Sol.Mg (mg/L)	19.6	19.3	0.093	0.074	0.901	0.840	0.901
Hard (mg/L)	240	230	0.002	-	-	0.977	0.977
G.Alpha (pCi/L)	3.70	3.66	0.898	0.141	0.791	0.908	0.791
G.Beta (pCi/L)	6.80	6.66	0.222	0.373	0.872	0.931	0.872
Chlrphl (µg/L)	5.0	2.4	0.023	-	-	0.006	0.006
Ag (mg/L)	0.003	0.002	0.000	-	-	0.139	0.139
Sol.Ag (mg/L)	0.001	0.001	0.000	-	-	0.684	0.684
As (mg/L)	0.005	0.005	0.000	-	-	1.000	1.000
Sol.As (mg/L)	0.000	0.002	0.000	-	-	0.166	0.166
Ba (mg/L)	0.029	0.023	0.301	0.084	0.005	0.006	0.005
Sol.Ba (mg/L)	0.020	0.017	0.714	0.108	0.045	0.060	0.045
B (mg/L)	0.145	0.184	0.202	0.447	0.023	0.035	0.023
Sol.B (mg/L)	0.130	0.169	0.401	0.390	0.027	0.023	0.027
Cd (mg/L)	0.001	0.001	0.000	-	-	0.761	0.761
Sol.Cd (mg/L)	0.000	0.000	0.000	-	-	0.829	0.829
Cu (mg/L)	0.020	0.016	0.519	0.487	0.154	0.139	0.154
Sol.Cu (mg/L)	0.005	0.003	0.002	-	-	0.592	0.592
Cr (mg/L)	0.006	0.004	0.000	-	-	0.338	0.338

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-2 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR STICKNEY WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
Sol.Cr (mg/L)	0.001	0.001	0.000	-	-	0.491	0.491
Cr ⁺⁶ (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	0.545	0.330	0.020	-	-	0.000	0.000
Sol.Fe (mg/L)	0.091	0.095	0.039	-	-	0.707	0.707
Pb (mg/L)	0.003	0.002	0.000	-	-	0.879	0.879
Sol.Pb (mg/L)	0.001	0.001	0.000	-	-	1.000	1.000
Ni (mg/L)	0.006	0.008	0.000	-	-	0.074	0.074
Sol.Ni (mg/L)	0.005	0.005	0.226	0.229	0.488	0.483	0.488
Mn (mg/L)	0.040	0.036	0.000	-	-	0.004	0.004
Sol.Mn (mg/L)	0.022	0.013	0.002	-	-	0.005	0.005
Hg (µg/L)	0.011	0.015	0.000	-	-	0.684	0.684
Sol.Hg (µg/L)	0.000	0.033	0.006	-	-	0.317	0.317
Zn (mg/L)	0.046	0.038	0.172	0.399	0.306	0.236	0.306
Sol.Zn (mg/L)	0.021	0.022	0.396	0.397	0.764	0.603	0.764
Se (mg/L)	0.010	0.006	0.000	-	-	0.353	0.353
Sol.Se (mg/L)	0.004	0.001	0.000	-	-	0.305	0.305

¹Significance probability <=0.05 indicates that up and down populations are not normal.

²Significance probability <=0.05 indicates that Variances are unequal.

³Significance probability <=0.05 indicates that means are unequal if t-test is used.

⁴Significance probability <=0.05 indicates that means are unequal if Wilcoxon test is used.

⁵Significance probability <=0.05 indicates that means are unequal using applicable test.

*Geometric Mean

- = No data or statistics, or applicable test exists.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-3

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR CALUMET WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
BOD ₅ (mg/L)	2.42	1.58	0.000	-	-	0.216	0.216
CBOD ₅ (mg/L)	1.92	0.67	0.000	-	-	0.073	0.073
DO (mg/L)	8.69	6.92	0.002	-	-	0.001	0.001
Temp (°C)	13.6	14.8	0.013	-	-	0.665	0.665
pH	7.63	7.35	0.529	0.420	0.151	0.117	0.151
Alk (mg/L)	138	156	0.081	0.265	0.120	0.094	0.120
Cl (mg/L)	109	127	0.502	0.055	0.464	0.285	0.464
Turb (NTU)	18.9	10.3	0.015	-	-	0.000	0.000
TKN (mg/L)	1.02	1.38	0.109	0.009	0.009	0.023	0.009
NH ₄ -N (mg/L)	0.115	0.188	0.397	0.178	0.052	0.069	0.052
NH ₃ -N (mg/L)	0.002	0.002	0.000	-	-	1.000	1.000
ORG-N (mg/L)	0.90	1.20	0.560	0.027	0.027	0.061	0.027
NO ₂ +NO ₃ (mg/L)	2.38	5.36	0.543	0.266	0.000	0.002	0.000
TS (mg/L)	475	547	0.155	0.102	0.287	0.326	0.287
TSS (mg/L)	27.8	15.2	0.005	-	-	0.010	0.010
VSS (mg/L)	4.58	3.67	0.014	-	-	0.303	0.303
TDS (mg/L)	447	532	0.211	0.119	0.202	0.175	0.202
Phenol (µg/L)	4.1	9.4	0.697	0.357	0.000	0.000	0.000
SO ₄ (mg/L)	78.9	91.2	0.710	0.016	0.308	0.403	0.308
FOG (mg/L)	4.87	4.39	0.829	0.257	0.528	0.470	0.528
T.P (mg/L)	0.495	2.037	0.053	0.036	0.000	0.000	0.000
CN (mg/L)	0.002	0.005	0.038	-	-	0.030	0.030
WAD-CN (mg/L)	0.000	0.001	0.011	-	-	0.000	0.000
F (mg/L)	0.394	0.632	0.872	0.465	0.001	0.004	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-3 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR CALUMET WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
TOC (mg/L)	6.42	8.33	0.272	0.113	0.030	0.051	0.030
FC (#/100 ml)*	89	2024	0.015	-	-	0.000	0.000
EColi (#/100 ml)*	101	1815	0.057	0.056	0.011	0.029	0.011
Ca (mg/L)	58.6	64.8	0.099	0.383	0.329	0.194	0.329
Sol.Ca (mg/L)	51.7	60.1	0.327	0.282	0.146	0.117	0.146
Mg (mg/L)	23.8	23.0	0.013	-	-	0.840	0.840
Sol.Mg (mg/L)	21.2	21.5	0.019	-	-	0.406	0.406
Hard (mg/L)	244	256	0.035	-	-	0.285	0.285
G.Alpha (pCi/L)	3.57	3.72	0.037	-	-	0.430	0.430
G.Beta (pCi/L)	6.80	9.00	0.536	0.440	0.039	0.053	0.039
Chlrphl (µg/L)	26.4	9.1	0.000	-	-	0.001	0.001
Ag (mg/L)	0.001	0.003	0.000	-	-	0.161	0.161
Sol.Ag (mg/L)	0.002	0.001	0.000	-	-	0.175	0.175
As (mg/L)	0.006	0.010	0.000	-	-	0.406	0.406
Sol.As (mg/L)	0.002	0.004	0.000	-	-	0.929	0.929
Ba (mg/L)	0.037	0.024	0.129	0.020	0.000	0.000	0.000
Sol.Ba (mg/L)	0.028	0.018	0.105	0.114	0.000	0.000	0.000
B (mg/L)	0.161	0.201	0.231	0.009	0.174	0.285	0.174
Sol.B (mg/L)	0.145	0.186	0.225	0.006	0.141	0.157	0.141
Cd (mg/L)	0.001	0.001	0.000	-	-	0.688	0.688
Sol.Cd (mg/L)	0.000	0.000	0.000	-	-	1.000	1.000
Cu (mg/L)	0.020	0.016	0.009	-	-	0.310	0.310
Sol.Cu (mg/L)	0.003	0.003	0.000	-	-	0.711	0.711
Cr (mg/L)	0.006	0.001	0.000	-	-	0.079	0.079

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-3 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR CALUMET WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
Sol.Cr (mg/L)	0.007	0.003	0.000	-	-	0.167	0.167
Cr ⁺⁶ (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	1.014	0.449	0.000	-	-	0.026	0.026
Sol.Fe (mg/L)	0.078	0.107	0.296	0.369	0.136	0.157	0.136
Pb (mg/L)	0.003	0.002	0.000	-	-	0.849	0.849
Sol.Pb (mg/L)	0.001	0.001	0.000	-	-	1.000	1.000
Ni (mg/L)	0.006	0.004	0.000	-	-	0.883	0.883
Sol.Ni (mg/L)	0.004	0.003	0.015	-	-	0.639	0.639
Mn (mg/L)	0.086	0.053	0.000	-	-	0.795	0.795
Sol.Mn (mg/L)	0.010	0.031	0.151	0.057	0.000	0.000	0.000
Hg (µg/L)	0.034	0.047	0.000	-	-	0.586	0.586
Sol.Hg (µg/L)	0.020	0.019	0.001	-	-	0.923	0.923
Zn (mg/L)	0.051	0.065	0.013	-	-	0.272	0.272
Sol.Zn (mg/L)	0.015	0.032	0.031	-	-	0.015	0.015
Se (mg/L)	0.009	0.006	0.000	-	-	0.618	0.618
Sol.Se (mg/L)	0.004	0.003	0.000	-	-	0.801	0.801

¹Significance probability <=0.05 indicates that up and down populations are not normal.

²Significance probability <=0.05 indicates that Variances are unequal.

³Significance probability <=0.05 indicates that means are unequal if t-test is used.

⁴Significance probability <=0.05 indicates that means are unequal if Wilcoxon test is used.

⁵Significance probability <=0.05 indicates that means are unequal using applicable test.

^{*}Geometric Mean

- = No data or statistics, or applicable test exists.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-4

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
 FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
BOD ₅ (mg/L)	-	-	-	-	-	-	-
CBOD ₅ (mg/L)	-	-	-	-	-	-	-
DO (mg/L)	7.59	8.07	0.998	0.059	0.621	0.477	0.621
Temp (°C)	18.9	14.2	0.212	0.508	0.263	0.244	0.263
pH	7.74	7.56	0.402	0.107	0.592	0.832	0.592
Alk (mg/L)	166	151	0.318	0.310	0.405	0.504	0.405
Cl (mg/L)	260	213	0.019	-	-	0.505	0.505
Turb (NTU)	24.6	6.8	0.002	-	-	0.001	0.001
TKN (mg/L)	1.60	1.83	0.037	-	-	0.824	0.824
NH ₄ -N (mg/L)	0.090	0.299	0.000	-	-	0.824	0.824
NH ₃ -N (mg/L)	0.004	0.002	0.001	-	-	0.634	0.634
ORG-N (mg/L)	1.51	1.53	0.145	0.251	0.884	0.756	0.884
NO ₂ +NO ₃ (mg/L)	0.23	7.69	0.003	-	-	0.000	0.000
TS (mg/L)	746	666	0.473	0.144	0.506	0.657	0.506
TSS (mg/L)	38.0	8.3	0.003	-	-	0.002	0.002
VSS (mg/L)	9.38	3.30	0.009	-	-	0.001	0.001
TDS (mg/L)	708	658	0.593	0.171	0.667	0.894	0.667
Phenol (µg/L)	6.1	6.6	0.080	0.162	0.696	0.928	0.696
SO ₄ (mg/L)	76.0	79.3	0.816	0.009	0.678	0.564	0.678
FOG (mg/L)	-	-	-	-	-	-	-
T.P (mg/L)	0.109	1.992	0.001	-	-	0.000	0.000
CN (mg/L)	0.002	0.005	0.435	0.153	0.001	0.002	0.001
WAD-CN (mg/L)	0.001	0.002	0.000	-	-	0.040	0.040
F (mg/L)	0.237	0.602	0.015	-	-	0.001	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-4 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
 FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
TOC (mg/L)	10.00	10.50	0.006	-	-	0.179	0.179
FC (#/100 ml)*	82	303	0.467	0.172	0.148	0.130	0.148
EColi (#/100 ml)*	61	209	0.300	0.196	0.221	0.209	0.221
Ca (mg/L)	67.5	68.7	0.370	0.253	0.880	0.859	0.880
Sol.Ca (mg/L)	59.0	63.8	0.765	0.232	0.467	0.267	0.467
Mg (mg/L)	31.2	27.0	0.777	0.091	0.268	0.307	0.268
Sol.Mg (mg/L)	27.4	25.5	0.687	0.088	0.555	0.564	0.555
Hard (mg/L)	297	283	0.330	0.188	0.673	0.689	0.673
G.Alpha (pCi/L)	4.23	4.00	0.415	0.011	0.596	0.689	0.596
G.Beta (pCi/L)	8.09	9.12	0.508	0.088	0.267	0.399	0.267
Chlrphl (µg/L)	30.6	12.9	0.004	-	-	0.020	0.020
Ag (mg/L)	0.001	0.000	0.000	-	-	0.871	0.871
Sol.Ag (mg/L)	0.002	0.002	0.000	-	-	1.000	1.000
As (mg/L)	0.000	0.002	0.000	-	-	0.434	0.434
Sol.As (mg/L)	0.000	0.004	0.000	-	-	0.222	0.222
Ba (mg/L)	0.048	0.030	0.994	0.435	0.003	0.007	0.003
Sol.Ba (mg/L)	0.035	0.024	0.925	0.470	0.020	0.019	0.020
B (mg/L)	0.100	0.207	0.041	-	-	0.003	0.003
Sol.B (mg/L)	0.077	0.185	0.034	-	-	0.001	0.001
Cd (mg/L)	0.001	0.001	0.020	-	-	0.714	0.714
Sol.Cd (mg/L)	0.000	0.000	0.000	-	-	0.671	0.671
Cu (mg/L)	0.021	0.018	0.347	0.229	0.329	0.305	0.329
Sol.Cu (mg/L)	0.003	0.009	0.167	0.200	0.007	0.007	0.007
Cr (mg/L)	0.009	0.003	0.000	-	-	0.289	0.289

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-4 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
Sol.Cr (mg/L)	0.004	0.002	0.000	-	-	0.266	0.266
Cr ⁺⁶ (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	1.448	0.343	0.001	-	-	0.000	0.000
Sol.Fe (mg/L)	0.124	0.152	0.003	-	-	0.091	0.091
Pb (mg/L)	0.002	0.001	0.000	-	-	0.373	0.373
Sol.Pb (mg/L)	0.001	0.000	0.000	-	-	0.538	0.538
Ni (mg/L)	0.006	0.005	0.954	0.209	0.447	0.687	0.447
Sol.Ni (mg/L)	0.003	0.003	0.044	-	-	0.617	0.617
Mn (mg/L)	0.134	0.051	0.026	-	-	0.002	0.002
Sol.Mn (mg/L)	0.034	0.018	0.000	-	-	0.824	0.824
Hg (µg/L)	0.051	0.030	0.000	-	-	0.448	0.448
Sol.Hg (µg/L)	0.000	0.020	0.000	-	-	0.131	0.131
Zn (mg/L)	0.023	0.031	0.448	0.241	0.128	0.197	0.128
Sol.Zn (mg/L)	0.003	0.019	0.023	-	-	0.001	0.001
Se (mg/L)	0.002	0.016	0.000	-	-	0.206	0.206
Sol.Se (mg/L)	0.006	0.004	0.000	-	-	0.573	0.573

¹Significance probability <=0.05 indicates that up and down populations are not normal.

²Significance probability <=0.05 indicates that Variances are unequal.

³Significance probability <=0.05 indicates that means are unequal if t-test is used.

⁴Significance probability <=0.05 indicates that means are unequal if Wilcoxon test is used.

⁵Significance probability <=0.05 indicates that means are unequal using applicable test.

*Geometric Mean

- = No data or statistics, or applicable test exists.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-5

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
 FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
BOD ₅ (mg/L)	-	-	-	-	-	-	-
CBOD ₅ (mg/L)	-	-	-	-	-	-	-
DO (mg/L)	8.22	8.55	0.282	0.009	0.794	0.963	0.794
Temp (°C)	15.0	16.0	0.464	0.256	0.797	0.920	0.797
pH	7.35	7.14	0.845	0.282	0.285	0.362	0.285
Alk (mg/L)	139	181	0.431	0.318	0.071	0.083	0.071
Cl (mg/L)	460	259	0.000	-	-	1.000	1.000
Turb (NTU)	22.2	6.9	0.001	-	-	0.002	0.002
TKN (mg/L)	1.31	1.65	0.270	0.295	0.127	0.174	0.127
NH ₄ -N (mg/L)	0.107	0.211	0.148	0.101	0.072	0.044	0.072
NH ₃ -N (mg/L)	0.001	0.001	0.005	-	-	0.960	0.960
ORG-N (mg/L)	1.20	1.44	0.422	0.173	0.231	0.374	0.231
NO ₂ +NO ₃ (mg/L)	0.41	5.67	0.065	0.000	0.000	0.001	0.000
TS (mg/L)	958	764	0.026	-	-	0.743	0.743
TSS (mg/L)	36.0	7.0	0.000	-	-	0.001	0.001
VSS (mg/L)	6.83	2.58	0.002	-	-	0.005	0.005
TDS (mg/L)	922	757	0.023	-	-	1.000	1.000
Phenol (µg/L)	5.8	11.3	0.012	-	-	0.010	0.010
SO ₄ (mg/L)	47.8	97.1	0.307	0.142	0.000	0.002	0.000
FOG (mg/L)	-	-	-	-	-	-	-
T.P (mg/L)	0.117	0.864	0.020	-	-	0.001	0.001
CN (mg/L)	0.004	0.005	0.002	-	-	0.221	0.221
WAD-CN (mg/L)	0.001	0.001	0.630	0.033	0.532	0.206	0.532
F (mg/L)	0.208	0.788	0.037	-	-	0.001	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-5 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
TOC (mg/L)	9.83	9.83	0.000	-	-	0.141	0.141
FC (#/100 ml)*	2395	475	0.403	0.070	0.307	0.373	0.307
EColi (#/100 ml)*	2097	425	0.383	0.097	0.322	0.365	0.322
Ca (mg/L)	63.2	74.4	0.051	0.045	0.398	0.543	0.398
Sol. Ca (mg/L)	57.1	70.5	0.024	-	-	0.426	0.426
Mg (mg/L)	22.5	27.9	0.103	0.044	0.326	0.543	0.326
Sol. Mg (mg/L)	20.1	26.1	0.045	-	-	0.543	0.543
Hard (mg/L)	250	301	0.062	0.042	0.365	0.606	0.365
G. Alpha (pCi/L)	6.03	4.43	0.000	-	-	0.673	0.673
G. Beta (pCi/L)	8.82	15.24	0.457	0.288	0.003	0.013	0.003
Chlrphl (µg/L)	14.3	2.8	0.009	-	-	0.002	0.002
Ag (mg/L)	0.001	0.002	0.000	-	-	0.473	0.473
Sol. Ag (mg/L)	0.002	0.001	0.000	-	-	0.248	0.248
As (mg/L)	0.000	0.002	0.000	-	-	0.556	0.556
Sol. As (mg/L)	0.000	0.002	0.000	-	-	0.556	0.556
Ba (mg/L)	0.060	0.030	0.007	-	-	0.006	0.006
Sol. Ba (mg/L)	0.048	0.022	0.003	-	-	0.006	0.006
B (mg/L)	0.074	0.335	0.023	-	-	0.001	0.001
Sol. B (mg/L)	0.057	0.306	0.029	-	-	0.001	0.001
Cd (mg/L)	0.002	0.001	0.000	-	-	0.469	0.469
Sol. Cd (mg/L)	0.000	0.001	0.006	-	-	0.377	0.377
Cu (mg/L)	0.019	0.018	0.707	0.357	0.706	0.606	0.706
Sol. Cu (mg/L)	0.007	0.006	0.129	0.258	0.872	0.963	0.872
Cr (mg/L)	0.004	0.004	0.000	-	-	0.797	0.797

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TABLE AIII-5 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2002

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob ¹	Equal Variance Sig Prob ²	t-test Sig Prob ³	Wilcoxon Sig Prob ⁴	Equal Means Sig Prob ⁵
Sol.Cr (mg/L)	0.002	0.003	0.000	-	-	0.709	0.709
Cr ⁺⁶ (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	1.179	0.417	0.017	-	-	0.004	0.004
Sol.Fe (mg/L)	0.123	0.134	0.012	-	-	0.482	0.482
Pb (mg/L)	0.002	0.002	0.000	-	-	1.000	1.000
Sol.Pb (mg/L)	0.000	0.001	0.000	-	-	0.607	0.607
Ni (mg/L)	0.005	0.009	0.009	-	-	0.073	0.073
Sol.Ni (mg/L)	0.002	0.007	0.068	0.046	0.022	0.066	0.022
Mn (mg/L)	0.120	0.048	0.046	-	-	0.009	0.009
Sol.Mn (mg/L)	0.073	0.022	0.001	-	-	0.010	0.010
Hg (µg/L)	0.030	0.018	0.000	-	-	0.371	0.371
Sol.Hg (µg/L)	0.033	0.005	0.022	-	-	0.242	0.242
Zn (mg/L)	0.040	0.075	0.000	-	-	0.013	0.013
Sol.Zn (mg/L)	0.013	0.048	0.320	0.059	0.000	0.002	0.000
Se (mg/L)	0.008	0.010	0.000	-	-	0.789	0.789
Sol.Se (mg/L)	0.002	0.006	0.000	-	-	0.440	0.440

¹Significance probability <=0.05 indicates that up and down populations are not normal.

²Significance probability <=0.05 indicates that Variances are unequal.

³Significance probability <=0.05 indicates that means are unequal if t-test is used.

⁴Significance probability <=0.05 indicates that means are unequal if Wilcoxon test is used.

⁵Significance probability <=0.05 indicates that means are unequal using applicable test.

*Geometric Mean

- = No data or statistics, or applicable test exists.