

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

**RESEARCH AND DEVELOPMENT  
DEPARTMENT**

**REPORT NO. 02-14**

**2001 ANNUAL SUMMARY REPORT**

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

**December 2002**

**Metropolitan Water Reclamation District of Greater Chicago**  
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**2001 ANNUAL SUMMARY REPORT  
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF  
THE METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO**

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Temperature	AII-1	AII-15	AII-47
pH	AII-1	AII-16	AII-48
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Alkalinity (Total)	AII-2		AII-52
Total Kjeldahl Nitrogen	AII-2		AII-53
Ammonium Nitrogen	AII-2	AII-18	AII-54
Un-ionized Ammonia	AII-3	AII-19	AII-55
Organic Nitrogen	AII-3		AII-56
Nitrite Plus Nitrate Nitrogen	AII-3		AII-57
Total Solids	AII-3		AII-58
Total Volatile Solids			AII-59
Total Suspended Solids	AII-3		AII-60
Volatile Suspended Solids	AII-4		AII-61
Total Dissolved Solids	AII-4	AII-20	AII-62
Total Dissolved Volatile Solids			AII-63
Phenols	AII-4	AII-21	AII-64
Sulfate	AII-4	AII-22	AII-65
Fats, Oils, and Greases	AII-4	AII-23	AII-66
Total Phosphorus	AII-5		AII-67

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TABLE LOCATOR IN APPENDIX AII - BY PARAMETER (Continued)

Parameter	Sample Means during 2001	Violation History through 2001	Mean History through 2001
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Soluble Phosphorus	AII-5		AII-68
Total Cyanide	AII-5	AII-24	AII-69
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Fluoride	AII-5	AII-26	AII-71
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Gross Beta Radioactivity	AII-7	AII-28	AII-78
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Soluble Boron	AII-9		
Total Cadmium	AII-9	AII-33	AII-83
Soluble Cadmium	AII-9		
Total Copper	AII-10	AII-34	AII-84

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TABLE LOCATOR IN APPENDIX AII - BY PARAMETER (Continued)

Parameter	Sample Means during 2001	Violation History through 2001	Mean History through 2001
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Total Iron	AII-11	AII-36	AII-86
Soluble Iron	AII-11	AII-37	AII-87
Total Lead	AII-11	AII-38	AII-88
Soluble Lead	AII-11		
Total Nickel	AII-11	AII-39	AII-89
Soluble Nickel	AII-12		
Total Manganese	AII-12	AII-40	AII-90
Soluble Manganese	AII-12		
Total Mercury	AII-12	AII-41	AII-91
Soluble Mercury	AII-12		
Total Zinc	AII-13	AII-42	AII-92
Soluble Zinc	AII-13		
Total Selenium	AII-13	AII-43	AII-93
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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 2001. In addition, the District compared these data with data for 2000.

### Compliance with Water Quality Standards During 2001

#### 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). Fifteen water quality parameters were in total compliance with the standards in all river systems. They were ammonium nitrogen, un-ionized ammonia, weak acid dissociable (WAD) cyanide, gross beta radioactivity, phenols, and 10 metals (total arsenic, total barium, total boron, total chromium [trivalent and hexavalent], soluble iron, total nickel, total manganese, total mercury, total zinc, and total selenium).

Nine of the remaining 13 parameters, viz., dissolved oxygen, temperature, pH, chloride, sulfate, total silver, total cadmium, total copper, and total lead had compliance rates of greater than 86.4 percent in all river systems. Total dissolved solids had a compliance rate greater than 80.4 percent in all river systems. Fecal coliform had the lowest compliance rate, and it was in the range of 26.3 to 50.2 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 had a compliance rate of 81.5 percent in the Calumet River System. The compliance rates of total iron were 71.3, 65.3, and 61.8 percent in the Chicago, Calumet, and Des Plaines River Systems, respectively.

A comparison of 2001 data with 2000 data indicated that there was no significant difference between 2000 and 2001 compliance rates except for pH, total dissolved solids, un-ionized ammonia, fecal coliform, total silver, and total iron. The compliance rates for all of these parameters significantly increased in 2001 except for total iron, which significantly decreased in 2001. In the Chicago River System, the compliance rate of total dissolved solids increased from 72.4 percent in 2000 to 88.6 percent in 2001, while the compliance rate of total iron decreased from 97.2 percent in 2000



to 71.3 percent in 2001. In the Calumet River System, the compliance rate of total silver increased from 90.3 percent in 2000 to total compliance in 2001, and the compliance rate of total iron decreased from 83.3 percent in 2000 to 65.3 percent in 2001. In the Des Plaines River System, the compliance rate of pH increased from 95.1 percent in 2000 to 98.3 percent in 2001. The compliance rate of un-ionized ammonia increased from 95.1 percent in 2000 to 98.3 percent in 2001, the compliance rate of fecal coliform also increased from 34.8 percent in 2000 to 50.2 percent in 2001, and the compliance rate of total iron decreased from 88.6 percent in 2000 to 61.8 percent in 2001.

#### 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 2001 had applicable IPCB standards.

Sixteen parameters were in complete compliance with the IPCB standards for the Chicago and the Calumet River Systems in 2001. They were temperature, phenols, total cyanide, fluoride, and 12 metals (total silver, total arsenic, total barium, total cadmium,

total copper, total chromium, soluble iron, total nickel, total manganese, total mercury, total zinc, and total selenium).

The percent compliance of the remaining 7 parameters (dissolved oxygen; pH; un-ionized ammonia; total dissolved solids; fats, oils, and greases; total iron; and total lead) which were not in total compliance in both the river systems varied from 90.5 to 100 percent.

A comparison of 2001 data with 2000 data indicated that there was no significant difference between the 2000 and 2001 compliance rates in both river systems.

## INTRODUCTION

It is the responsibility of the District to conduct monitoring of the water quality of the streams and canals within its jurisdiction. Detailed annual water quality summaries (similar to this report) of all water quality data collected have been published by the District for the years 1972 through 2000. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2001.

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

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

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

## WATER QUALITY NETWORK

### Description of Waterways

The District is responsible for monitoring the quality of the waterways that are impacted by its operations. A map depicting the waterways is shown in Figure 1. These include both man-made and natural waterways.

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

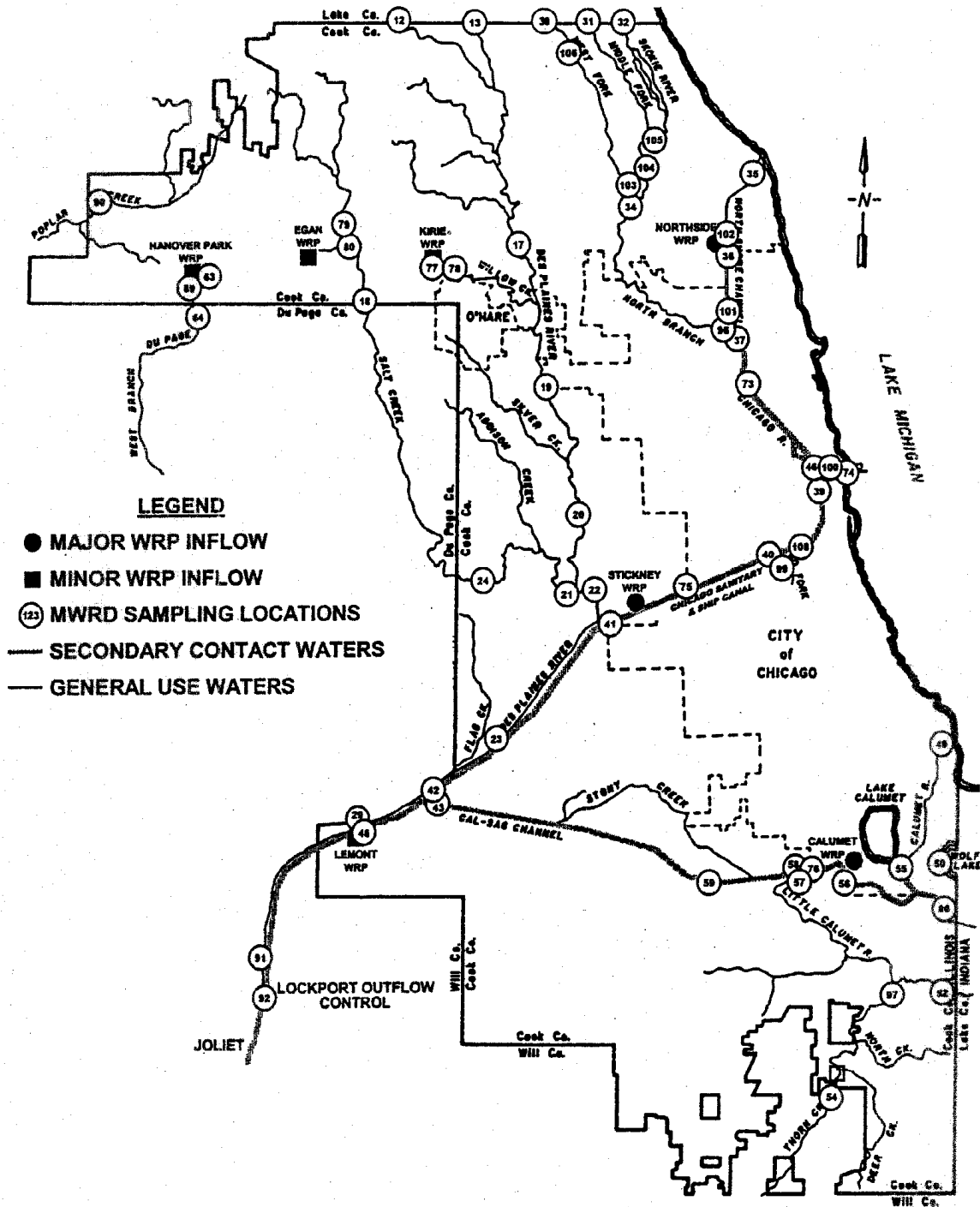
The functions of the canal system are to:

- Provide navigational facilities for boats and barges.
- Serve as receiving waters from the tributary streams and water reclamation plant (WRP) effluents, combined sewer overflows, and storm water 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 and sampling stations are listed in Tables AI-1 and AI-2, respectively. Some locations have been added and some were discontinued in 2001. Table AI-3 is thus provided to show a complete list of locations sampled in 2000 and 2001.



Summary water quality results for 2001 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 2001 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-81 (Appendix II) were designed to present the mean values of various parameters for 1990 through 2000, with the 2001 mean values for each parameter and all locations sampled.

Finally, Tables AIII-1 through AIII-6 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 63 locations during 2001 as shown in Figure 1. This includes eleven additional sampling stations which were added in 2001. These are locations 106 (Dundee Road, West Fork North Branch of Chicago River), 103 (Golf Road, West Fork North Branch of Chicago River), 104 (Glenview Road, North Branch of Chicago River), 105 (Frontage Road, Skokie River), 102 (Oakton Street, North Shore Channel), 101 (Foster Avenue, North Shore Channel), 100 (Wells Street, Chicago River), 108 (Loomis Street, North Branch of Chicago River), 99 (Archer Avenue, South Fork, South Branch of Chicago River), 107 (Western Avenue, Chicago Sanitary and Ship Canal), and 97 (107<sup>th</sup> Street, Thorn 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 2001 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.

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TABLE 1

WATERWAYS (BRIDGE RUNS) TOTAL NUMBER OF SAMPLES  
COLLECTED MONTHLY DURING 2001

Month	Chicago River System	Calumet River System	Des Plaines River System
January	17	12	18
February	19	17	21
March	28	12	23
April	29	18	21
May	30	20	24
June	29	20	23
July	28	20	21
August	29	20	23
September	28	20	23
October	28	20	22
November	29	20	24
December	28	17	23

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 2001 are shown without an asterisk in Table AI-2, Appendix AI. Twenty-seven sites were sampled in the Chicago River System, 13 in the Calumet, and 23 in the Des Plaines River System (including 4 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 104 stations, of which the 63 sampling locations in 2001 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 2001. A list of these assays appears in Table 2.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	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 <sup>3</sup>	6.0 mg/L <sup>4</sup> 5.0 mg/L <sup>4,5</sup>	302.206 302.206	04/16/72 04/16/72
Secondary Contact Waters <sup>6</sup>	5.0 mg/L <sup>4,5</sup> 4.0 mg/L <sup>4,5</sup> 3.0 mg/L <sup>5,7</sup>	303.441(j) 302.405 302.405	04/16/72 01/01/78 05/19/88
<u>Temperature</u>			
General Use Waters <sup>3</sup>	32°C, Apr.- Nov. <sup>10</sup> 16°C, Dec.- Mar. <sup>10</sup>	302.211 302.211	04/16/72 04/16/72
Secondary Contact Waters <sup>6</sup>	34°C <sup>11</sup> 37.8°C <sup>11</sup> (37.8°C) <sup>5</sup>	302.408 302.408	04/16/72 04/16/72
<u>pH</u>			
General Use Waters <sup>3</sup>	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 STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
Secondary Contact waters <sup>6</sup>	6.0-9.0	302.404	04/16/72
<u>Chloride</u>			
General Use Waters <sup>3</sup>	500 mg/L	302.208	04/16/72
Secondary Contact Waters	No standard		
<u>Turbidity</u>	No standard		
<u>Alkalinity</u>	No standard		
<u>Total Kjeldahl Nitrogen</u>	No standard		
<u>Ammonia Nitrogen</u>			
General Use Waters <sup>3</sup>	15 mg/L with un-ionized ammonia <0.33 mg/L Apr.-Oct. and <0.14 mg/L Nov.-Mar	302.212	12/19/96
Secondary Contact Waters <sup>6</sup>	2.5 mg/L Apr.-Oct. 4.0 mg/L Nov.-Mar. 0.10 mg/L un-ionized ammonia	302.407	06/21/79 05/19/88

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<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 <sup>3</sup>	1,000 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>6</sup>	1,500 mg/L	302.407	06/21/79
<u>Phenols</u>			
General Use Waters <sup>3</sup>	0.1 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>6</sup>	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 STANDARDS<sup>1</sup>

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



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<u>WAD Cyanide</u>			
General Use Waters <sup>3,5</sup>	0.022 mg/L (weak acid dissociable)	302.208	02/01/96
Secondary Contact Waters <sup>6</sup>	No standard		
<u>Fluoride</u>			
General Use Waters <sup>3</sup>	1.4 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>6</sup>	15.0 mg/L	302.407	05/24/79
<u>Total Organic Carbon</u>	No standard		
<u>Fecal Coliform Indicator<sup>8</sup></u>			
General Use Waters <sup>3</sup>	200 counts/100 ml <sup>9</sup>	302.209	04/16/72
	400 counts/100 ml <sup>9</sup> (400 counts/100 ml) <sup>5</sup>	302.209	04/16/72
Secondary Contact Waters <sup>6</sup>	No standard		

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<u>Escherichia Coli</u>	No standard		
<u>Total Calcium</u>	No standard		
<u>Soluble Calcium</u>	No standard		
<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 <sup>3</sup>	100 picocuries/L	302.207	04/16/72
Secondary Contact Waters <sup>6</sup>	No standard		
<u>Total Silver</u>			
General Use Waters <sup>3</sup>	0.005 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>6</sup>	1.1 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 STANDARDS<sup>1</sup>

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<u>Total Cadmium</u>			
General Use Waters <sup>3</sup>	0.05 mg/L note <sup>14</sup>	302.208	04/16/72 02/04/90
Secondary Contact Waters <sup>6</sup>	0.15 mg/L	302.407	05/24/79
<u>Soluble Cadmium</u>	No standard		
<u>Total Copper</u>			
General Use Waters <sup>3</sup>	0.02 mg/L note <sup>15</sup>	302.208	04/16/72 02/04/90
Secondary Contact Waters <sup>6</sup>	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 <sup>3</sup>	1.0 mg/L <sup>5</sup> note <sup>16</sup>	302.208	04/16/72 02/04/90
Second Contact Waters <sup>6</sup>	1.0 mg/L <sup>5</sup>	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 STANDARDS<sup>1</sup>

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
Secondary Contact Waters <sup>6</sup>	0.5 mg/L	302.407	05/24/79
<u>Total Lead</u>			
General Use Waters <sup>3</sup>	0.1 mg/L note <sup>17</sup> note <sup>18</sup>	302.208	04/16/72 02/04/90 05/16/96
Secondary Contact Waters <sup>6</sup>	0.1 mg/L	302.407	05/24/79
<u>Soluble Lead</u>	No standard		
<u>Total Nickel</u>			
General Use Waters <sup>3</sup>	1.0 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>6</sup>	1.0 mg/L	302.407	05/24/79
<u>Soluble Nickel</u>	No standard		
<u>Total Manganese</u>			
General Use Waters <sup>3</sup>	1.0 mg/L	302.208	05/24/79
Secondary Contact Waters <sup>6</sup>	1.0 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 STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<u>Soluble Manganese</u>	No standard		
<u>Total Mercury</u>			
General Use Waters <sup>3</sup>	0.0005 mg/L	302.208	04/25/71
	0.0026 mg/L		05/16/96
Secondary Contact Waters <sup>6</sup>	0.0005 mg/L	302.407	05/24/79
<u>Soluble Mercury</u>	No standard		
<u>Total Zinc</u>			
General Use Waters <sup>2</sup>	1.0 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>3</sup>	1.0 mg/L	302.407	05/24/79
<u>Soluble Zinc</u>	No standard		
<u>Total Selenium</u>			
General Use Waters <sup>3</sup>	1.0 mg/L	302.208	04/16/72
Secondary Contact Waters <sup>6</sup>	1.0 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 STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<u>Soluble Selenium</u>	No standard		

<sup>1</sup> Water 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.

<sup>2</sup> Section number from 1 above.

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

<sup>4</sup> The 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.

<sup>5</sup> Water 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).

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

<sup>7</sup> Cal-Sag Channel only.

<sup>8</sup> Repealed, 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.

<sup>9</sup> The 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.



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARDS<sup>1</sup>

ASSAYS	STATE STANDARDS	SECTION <sup>2</sup>	EFFECTIVE DATE
<sup>10</sup> The 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.			
<sup>11</sup> The upper value cannot be exceeded more than 5 percent of the time, and the lower value cannot be exceeded at any time.			
<sup>12</sup> Oil 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.			
<sup>13</sup> This 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).			
<sup>14</sup> Cadmium = $\min(0.05, \exp(-2.918 + 1.128\ln[H]))$ .			
<sup>15</sup> Copper = $\exp(-1.464 + 0.9422\ln[H])$ .			
<sup>16</sup> Total Chromium = $\exp(3.688 + 0.8190\ln[H])$ .			
<sup>17</sup> Lead = $\min(0.1, \exp(-1.464 + 1.273\ln[H]))$ .			
<sup>18</sup> Lead = $\exp(-1.301 + 1.273\ln[H])$ : Where, Hardness, mg equivalent CaCO <sub>3</sub> /L [H] = 2.497(Ca, mg/L) + 4.118(Mg, mg/L).			

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.

## 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	$\geq 6.0$ mg/L at least 16 hours/day	$\geq 5.0$ mg/L anytime
	$\geq 5.0$ mg/L anytime	
Secondary Contact Waters	$\geq 4.0$ mg/L anytime	$\geq 4.0$ mg/L anytime
Secondary Contact Waters	$\geq 5.0$ mg/L at least 16 hours/day	
(North Shore Channel)	$\geq 4.0$ mg/L anytime	$\geq 4.0$ mg/L anytime
(Calumet-Sag Channel effective 5/19/88)	$\geq 3.0$ mg/L anytime	$\geq 3.0$ 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	$\leq 400$ 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) $\leq 0.016$ mg/L Chromium (total tri- valent), see foot- note 16, <u>Table 2</u>	$\leq 1.0$ mg/L anytime $\leq 1.0$ mg/L anytime
Secondary Contact Waters	Chromium (total hexa- valent) $\leq 0.3$ mg/L	$\leq 1.0$ mg/L anytime
	Chromium (total tri- valent) $\leq 1.0$ mg/L	$\leq 1.0$ mg/L anytime
5. Dissolved Iron		
General Use Waters	$\leq 1.0$ mg/L	$\leq 1.0$ mg/L of total iron
Secondary Contact Waters	$\leq 0.5$ mg/L	$\leq 2.0$ mg/L of total iron

not possible. In view of this, the District interprets the IPCB standard limitation of 400 count/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. The District does not assay water samples from bridge runs for dissolved iron, but measures total iron in all samples. Therefore, the District does not assess the compliance with the dissolved iron standards in either General Use Waters or Secondary Contact Waters. Instead, the District assesses the compliance of total iron with 1.0 mg/L in General Use Waters and 2.0 mg/L in Secondary Contact Waters.

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 2001 is shown in Table 4. Of the five river systems sampled during 2001, 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 manmade 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 Du Page River System, data from three sampling locations are considered as General Use; 100 feet upstream (Station 63), 1,000 feet downstream (Station 89), and 7,900 feet downstream of the Hanover Park WRP treated effluent discharge into the West Branch of the Du Page River (Station 64).

The frequency of sampling during 2001 was once per month at most locations. Table 4 shows the frequency of sampling at all General Use locations in 2001.



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 4

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF  
GENERAL USE WATERS IN 2001

Map No <sup>1</sup> Station Name	Annual No. of Samples
<u>Chicago River System</u>	
30 Lake-Cook Road, West Fork North Branch	2
106 Dundee Road, West Fork North Branch Chicago River	5
103 Golf Road, West Fork North Branch Chicago River	10
31 Lake-Cook Road, Middle Fork North Branch	11
104 Glenview Road, North Branch Chicago River	10
32 Lake-Cook Road, Skokie River	11
105 Frontage Road, Skokie River	10
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	10
74 Lake Shore Drive, Chicago River	12
100 Wells Street, Chicago River	7
	<u>121</u>
<u>Calumet River System</u>	
49 Ewing Avenue, Calumet River	23
50 Burnham Avenue, Wolf Lake	11
55 130th Street, Calumet River	21
52 Wentworth Avenue, Little Calumet River	11
54 Joe Orr Road, Thorn Creek	12
97 170th Street, Thorn Creek	10
57 Ashland Avenue, Little Calumet River	10
	<u>98</u>
<u>Des Plaines River System</u>	
79 Higgins Road, Salt Creek	10
80 Arlington Heights Road, Salt Creek	12
18 Devon Avenue, Salt Creek	12
24 Wolf Road, Salt Creek	12
21 First Avenue, Salt Creek	12
77 Elmhurst Road, Higgins Creek	11
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 2001

Map No <sup>1</sup> Station Name	Annual No. of Samples
<u>Des Plaines River System</u>	
12 Lake-Cook Road, Buffalo Creek	11
13 Lake-Cook Road, Des Plaines River	12
17 Oakton Steet, Des Plaines River	12
19 Belmont Avenue, Des Plaines River	12
20 Roosevelt Road, Des Plaines River	12
22 Ogden Avenue, Des Plaines River	12
23 Willow Springs Road, Des Plaines River	12
29 Stephen Street, Des Plaines River	12
91 Material Service Road, Des Plaines River	<u>52</u>
	228
<u>Du Page River System</u>	
63 Longmeadow Lane, West Branch Du Page River	4
89 Walnut Lane, West Branch Du Page River	12
64 Lake Street, West Branch Du Page River	<u>11</u>
	27
<u>Fox River System</u>	
90 Route 19, Poplar Creek	<u>11</u>
	11

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

## River System Compliance Data

In the General Use Waters sampled during 2001, 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 15 parameters which were in 100 percent compliance in all river systems were: ammonium nitrogen, un-ionized ammonia, phenols, weak acid dissociable cyanide, gross beta radioactivity, total arsenic, total barium, total boron, total chromium (trivalent and hexavalent), soluble iron, total nickel, total manganese, total mercury, total zinc, and total selenium.

The 13 water quality parameters, which were in less than complete compliance with General Use Water Quality Standards during 2001, 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. Nineteen parameters were in 100 percent compliance at each of the locations. In addition to the 15

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 2001

Parameter	Estimated Percent Compliance*		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	86.4	88.9	97.8
Temperature	100.0	100.0	98.9
pH	98.6	98.8	98.3
Chloride	95.1	100.0	94.1
Total Dissolved Solids	88.6	80.4	87.5
Sulfate	100.0	88.2	100.0
Fluoride	100.0	81.5	100.0
Fecal Coliform	26.3	48.8	50.2
Total Silver	98.5	100.0	99.3
Total Cadmium	99.3	100.0	100.0
Total Copper	98.5	96.0	99.6
Total Iron	71.3	65.3	61.8
Total Lead	100.0	100.0	99.6

ND = No Data

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

parameters listed above, temperature, sulfate, fluoride, and total lead were the other 4 parameters also in total compliance. Many violations of the pertinent standards of the remaining 9 parameters (dissolved oxygen, pH, chloride, total dissolved solids, fecal coliform, total silver, total cadmium, total copper, and total iron) occurred at all 13 sampling locations of General Use waters.

The compliance rate for the fecal coliform standard was 26.3 percent. The compliance rate of total iron for the river system was 71.3 percent. The compliance rates of other parameters (dissolved oxygen, pH, chloride, total dissolved solids, total silver, total cadmium, and total copper) ranged from 86.4 percent to 99.3 percent.

The 18 violations of dissolved oxygen occurred in various months of 2001. Location 103 had 4 monthly violations, 1 violation each in June through September. Location 31 had 4 violations, 1 violation each in June, August, September, and November. Locations 32 and 102 had 3 violations, 1 each in July, August and September. Location 34 had 2 violations, 1 violation each in September and December. Locations 96 and 104 had 1 violation each in August and September, respectively.

One pH violation occurred at location 96 in February.

Chloride had 3 violations, 1 each at locations 30 and 34 in January, and 1 at location 106 in March.

Total dissolved solids had 9 violations in various months. Location 32 had 2 violations, 1 each in February and March; location 34 had 2 violations, 1 each in January and April; location 96 also had 2 violations, 1 each in January and March; and locations 30, 103, and 106 had 1 violation each in March.

Fecal coliform had 89 violations, which occurred in every month of 2001. Location 96 had 12 violations, 1 in each month. Location 32 had 11 violations, 1 in each month except January. Location 31 had 10 violations, 1 violation in each month from March through December. Location 34 also had 10 violations, 1 each month from January through April, July through October, and December. Location 103 had 9 violations, 1 each month in March, April, and July through December. Location 104 had 7 violations, 1 each month in March and from July through December. Location 102 also had 7 violations, 1 each month in April, May, July through October, and December. Location 105 had 6 violations, 1 each month in March, April, and July through October. Location 106 had 5 violations, 1 each month in March through June and in September. Location 35 also had 5 violations, 1 each month in April, July through September, and November. Location 100 had 4 violations, 1 each in March, April, May, and December. Location

30 had 2 violations, 1 each in January and February. Location 74 had only 1 violation in October.

Total silver had 2 violations, 1 each in December at locations 103 and 34.

Total copper had 2 violations, 1 each in February at locations 35 and 102.

Total iron had 31 violations, which occurred in every month of 2001. Location 31 had 9 violations, 1 each month in February, March, May, and July through December. Location 34 had 5 violations, 1 each in January, February, April, September, and October. Location 103 also had 5 violations, 1 each in March, April, May, October, and November. Location 106 had 4 violations, 1 each in March, April, May and September. Location 30 had 2 violations, 1 each in January and February. Locations 96, 102, and 104 had 1 violation each in May, April, and October, respectively.

Overall, there was no significant difference between the 2001 and 2000 compliance rates except for total dissolved solids and total iron. The compliance rate of total dissolved solids increased from 72.4 percent in 2000 to 88.6 percent in 2001. The compliance rate of total iron decreased from 97.2 percent in 2000 to 71.3 percent in 2001.

## 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 15 parameters previously listed, which were in complete compliance in all river systems, 5 more parameters (temperature, chloride, total silver, total cadmium, and total lead) 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 copper, and total iron were 88.9, 98.8, 80.4, 88.2, 81.5, 48.8, 96.0, and 65.3 percent, respectively.

Dissolved oxygen had 12 violations. Location 52 had 5 violations, 1 each month May through September. Location 57 also had 5 violations, 1 each month in May through August, and November. Location 97 had 2 violations, 1 each in July and August. One violation of pH occurred at location 97 in April.

Total dissolved solids had 14 violations. Location 54 had 10 violations, 1 each month in January through April, June, and August through December. Location 57 had 2 violations, 1 each in February and March, and location 97 also had 2 violations, 1 each in June and December.



Sulfate had 8 violations at location 54, 1 each in January, February, March, June, August, September, November, and December.

Fluoride had 15 violations, 11 at location 52 in all months except January, and 4 at location 57 with 1 violation in June and 1 monthly from September through November.

Fecal coliform had 40 violations, 11 at location 52, 10 at location 54, 9 at location 97, 7 at location 57, and 3 at location 55, covering all months of the year.

Total copper had 2 violations, at location 50 in January and October.

Total iron had 28 violations, location 97 had 9 violations, locations 52 and 57 had 8 violations each, location 54 had 2 violations, and location 49 had 1 violation.

Overall, there was no significant difference between the 2001 and 2000 compliance rates except for total iron and total silver. The compliance rate of total iron decreased from 83.3 percent in 2000 to 65.3 percent in 2001, and the compliance rate of total silver increased from 90.3 percent in 2000 to total compliance in 2001.

## DES PLAINES RIVER SYSTEM

Twenty sampling locations i.e., 90, 63, 89, 64, 79, 80, 18, 24, 21, 77, 78, 12, 13, 17, 19, 20, 22, 23, 29, and 91 are in the General Use section the river system. Three sampling locations on Du Page River and 1 sampling location on Poplar Creek are included in the General Use sampling locations.

In addition to the 15 parameters previously listed, which were in total compliance in all river systems, 3 other parameters (sulfate, fluoride, and total cadmium) were also in total compliance. However, the remaining 10 parameters were less than 100 percent compliance.

The compliance rate of fecal coliform was 50.2 percent.

The compliance rates for dissolved oxygen, temperature, pH, chloride, total dissolved solids, total silver, total copper, total iron, and total lead were 97.8, 98.9, 98.3, 94.1, 87.5, 99.3, 99.6, 61.8, and 99.6 percent, respectively.

Dissolved oxygen had 6 violations, 1 each at locations 19, 20, 21, 24, 79, and 91. These violations of dissolved oxygen occurred in May through September.

Temperature had 3 violations, 1 each at locations 12, 77, and 91 in August.

Four violations of pH occurred, 3 at locations 91, and 1 at location 18.

Chloride had 14 violations, 3 each at locations 77 and 79; 2 each at locations 12 and 91; and 1 each at locations 18, 21, 24, and 64.

Total dissolved solids had 29 violations, 4 at location 91; 3 each at locations 77 and 79; 2 each at locations 12, 21, 24, and 80; and 1 each at locations 17, 18, 19, 20, 22, 23, 29, 63, 64, 78, 89.

Fecal coliform had 132 violations, 23 at location 91; 10 each at locations 64 and 21; 9 at location 18; 8 at location 89; 7 each at locations 22, 24, and 78; 6 each at locations 19, 20, 77, and 80; 5 each at locations 17 and 23; 4 at locations 12, 13, and 63; 3 at location 29; and 1 each at locations 79 and 90.

Total silver had 2 violations, 1 each at location 19 and 91.

Total copper had only 1 violation at location 80.

Total iron had 102 violations, 31 at location 91; 9 at location 29; 8 at location 23; 6 each at locations 13 and 77; 5 each at locations 24, 64, and 79; 4 each at locations 17, 19 and 63; 3 at location 12; 2 each at locations 18, 21, 22, and 90; and 1 each at locations 20, 78, 80, and 89. Total lead had only 1 violation at location 79.

The compliance rates of all parameters in 2001 were not significantly different from those in 2000 except for pH,

un-ionized ammonia, fecal coliform, and total iron. The compliance rate of pH increased from 95.1 percent in 2000 to 98.3 percent in 2001, and the compliance rate of un-ionized ammonia increased from 98.0 percent in 2000 to total compliance in 2001. The compliance rate of fecal coliform also increased from 34.8 percent in 2000 to 50.2 percent in 2001. The compliance rate of total iron decreased from 88.6 percent in 2000 to 61.8 percent in 2001.

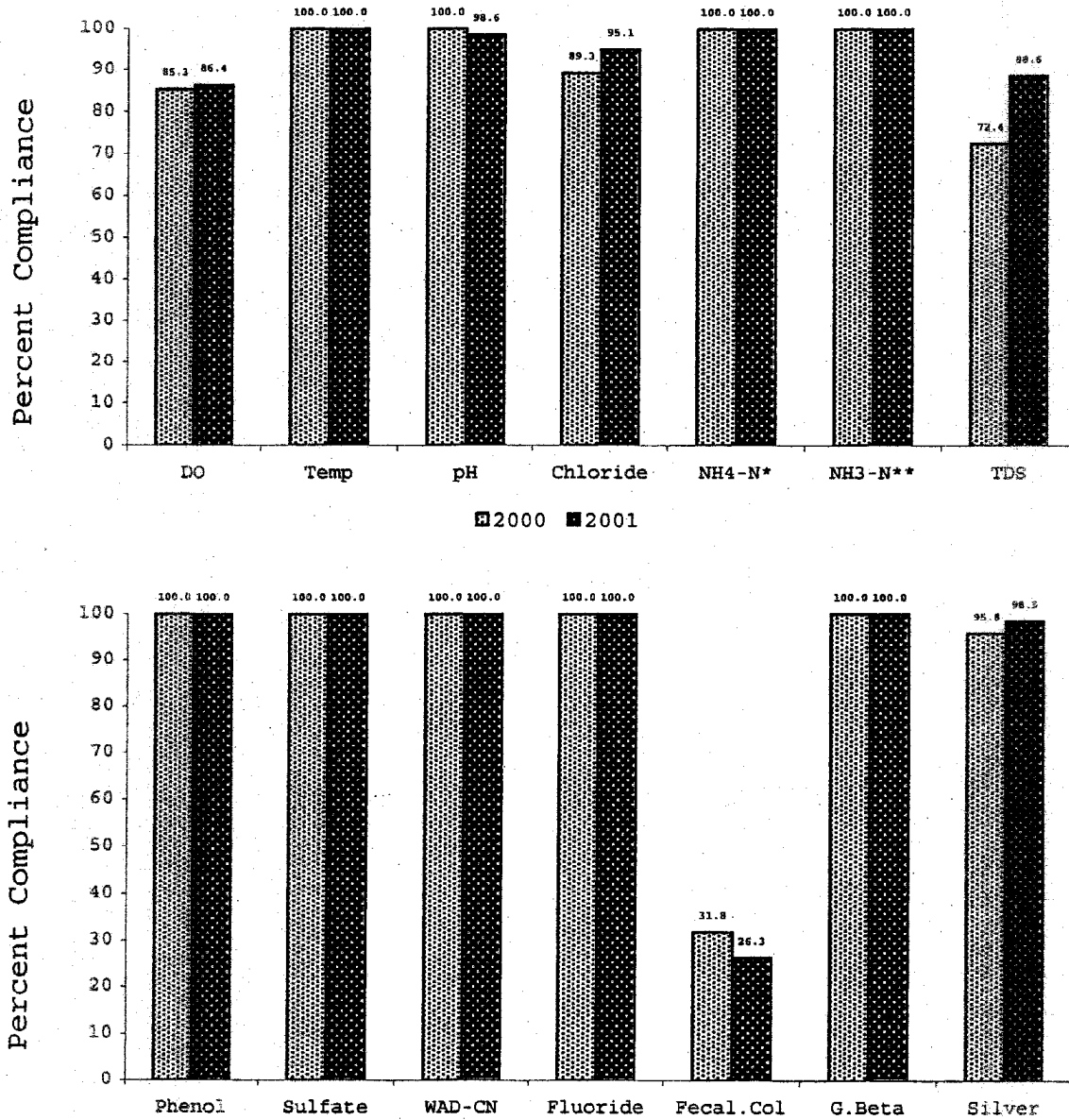
The compliance rates of 28 water quality parameters for the Chicago and the Des Plaines River Systems are presented in Figures 2 and 4, respectively. Since no samples are taken for gross beta radioactivity in the Calumet River System in 2000, the compliance rates of 27 water quality parameters are presented in Figure 3.

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, 1993 through 2001) 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 2000 AND 2001

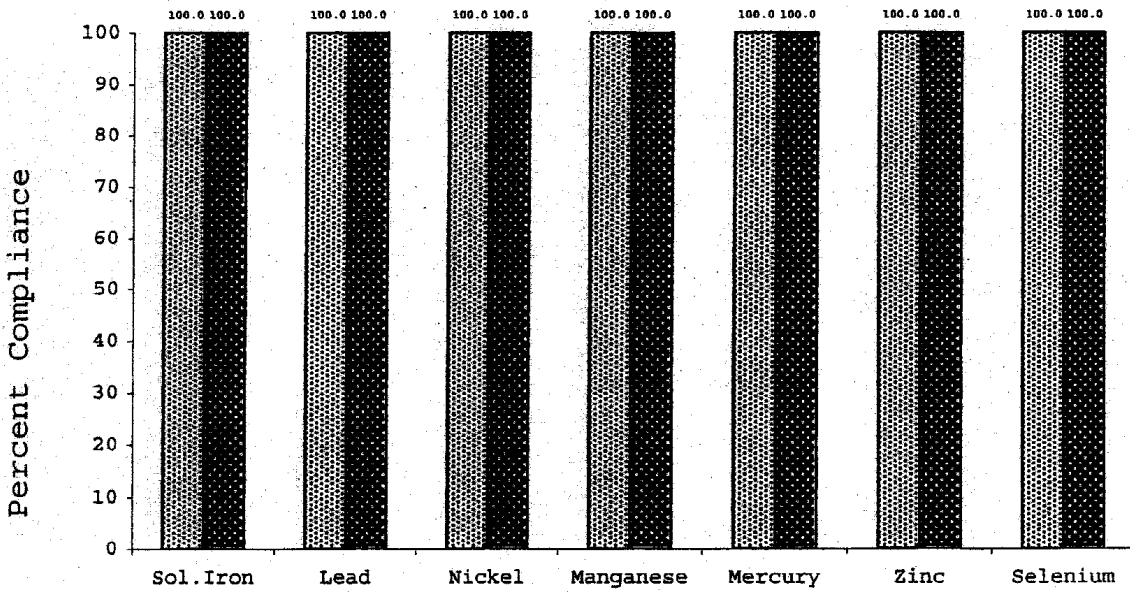
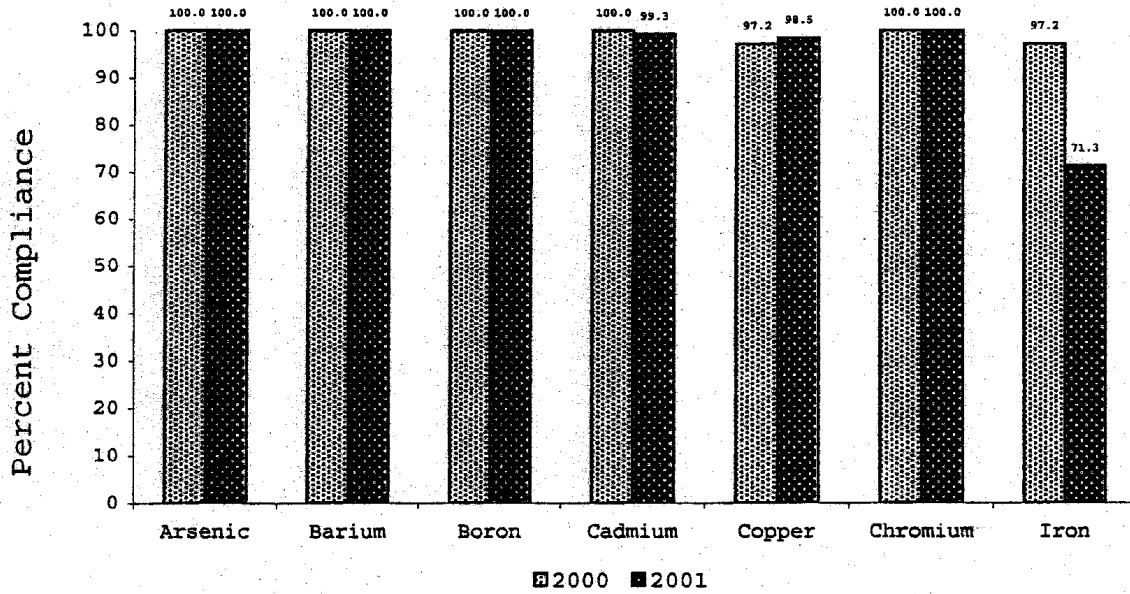


\*NH4-N = Ammonium Nitrogen  
 \*\*NH3-N = Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 2 (Continued)

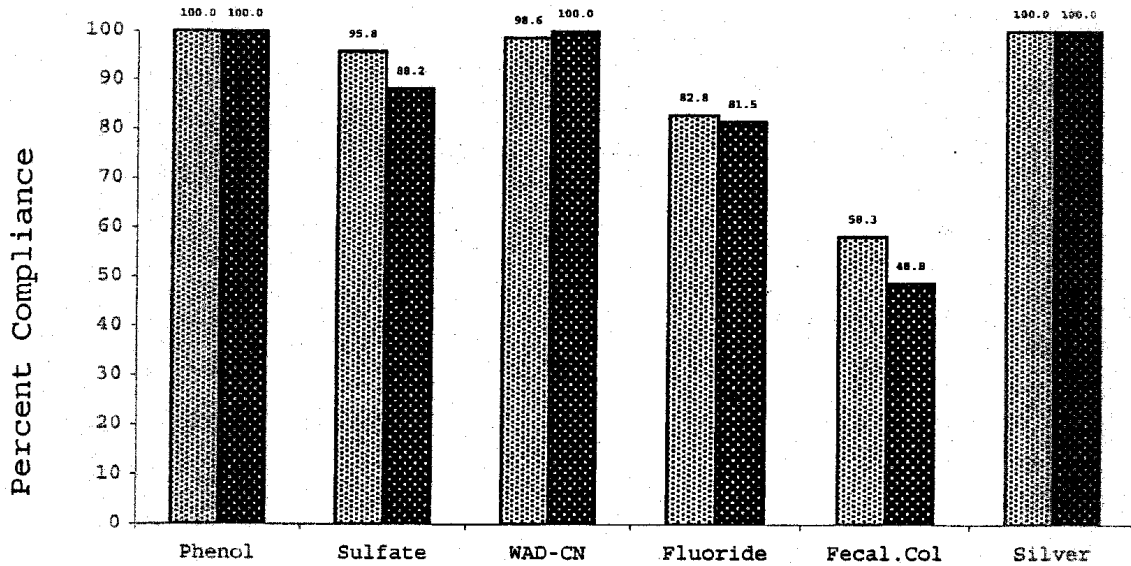
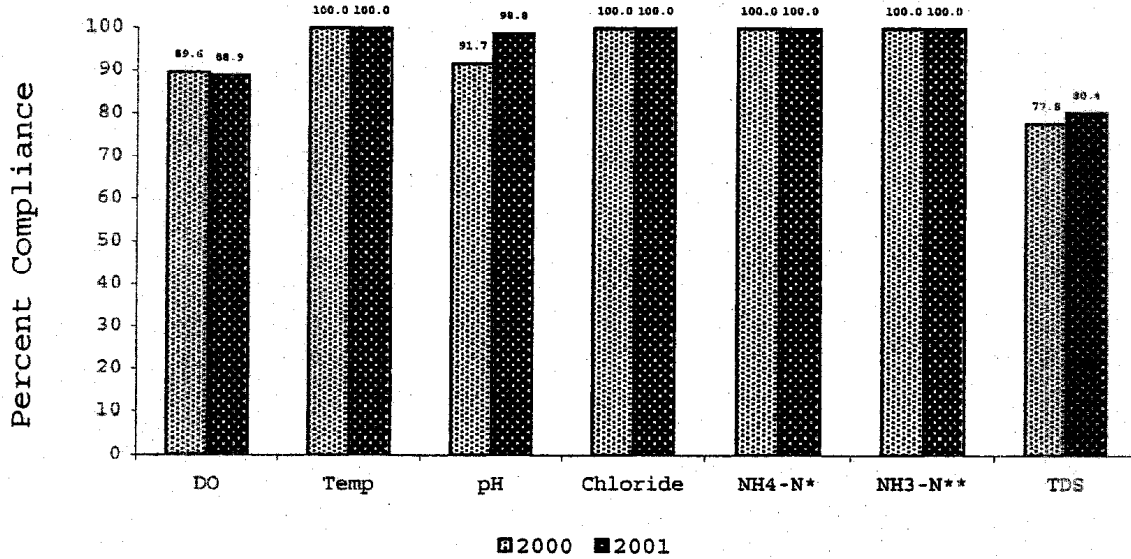
COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF CHICAGO RIVER IN 2000 AND 2001



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 3

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF CALUMET RIVER IN 2000 AND 2001

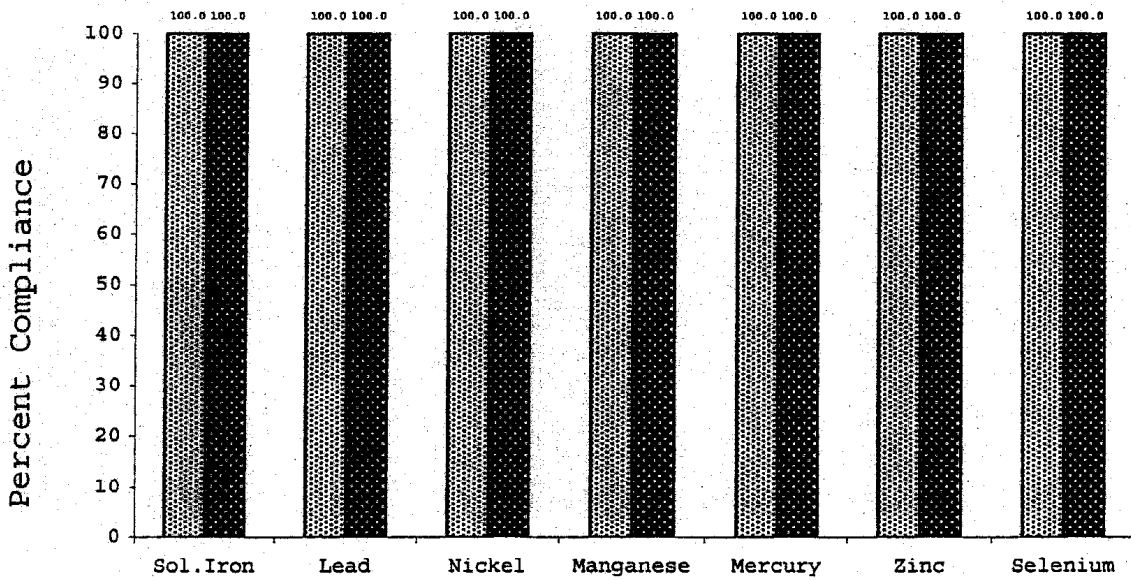
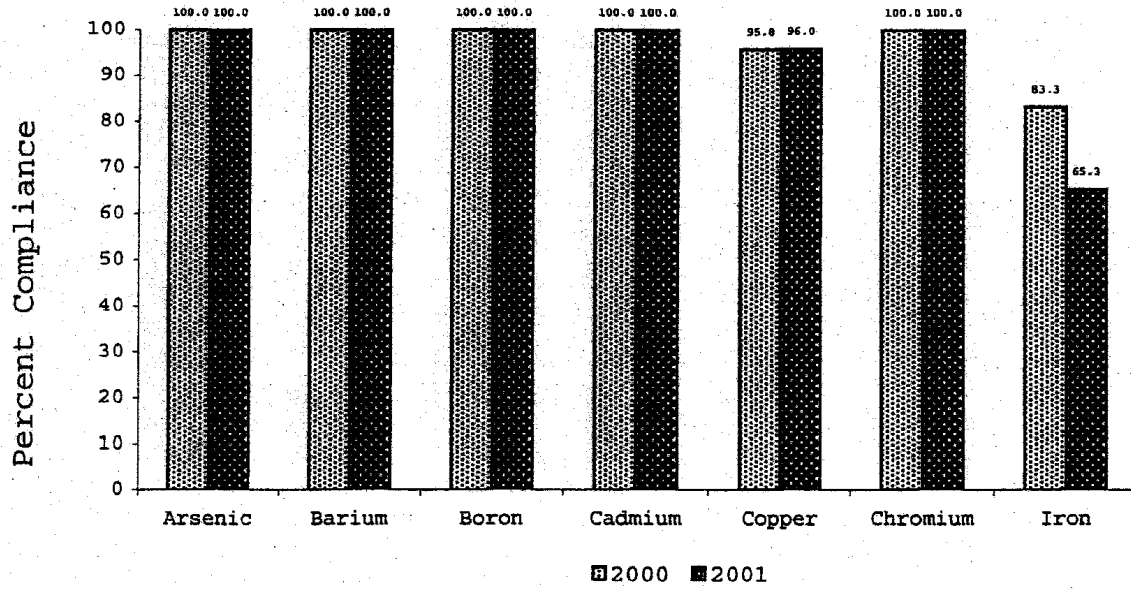


\*NH4-N = Ammonium Nitrogen  
 \*\*NH3-N = Un-ionized Ammonia

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 2000 AND 2001

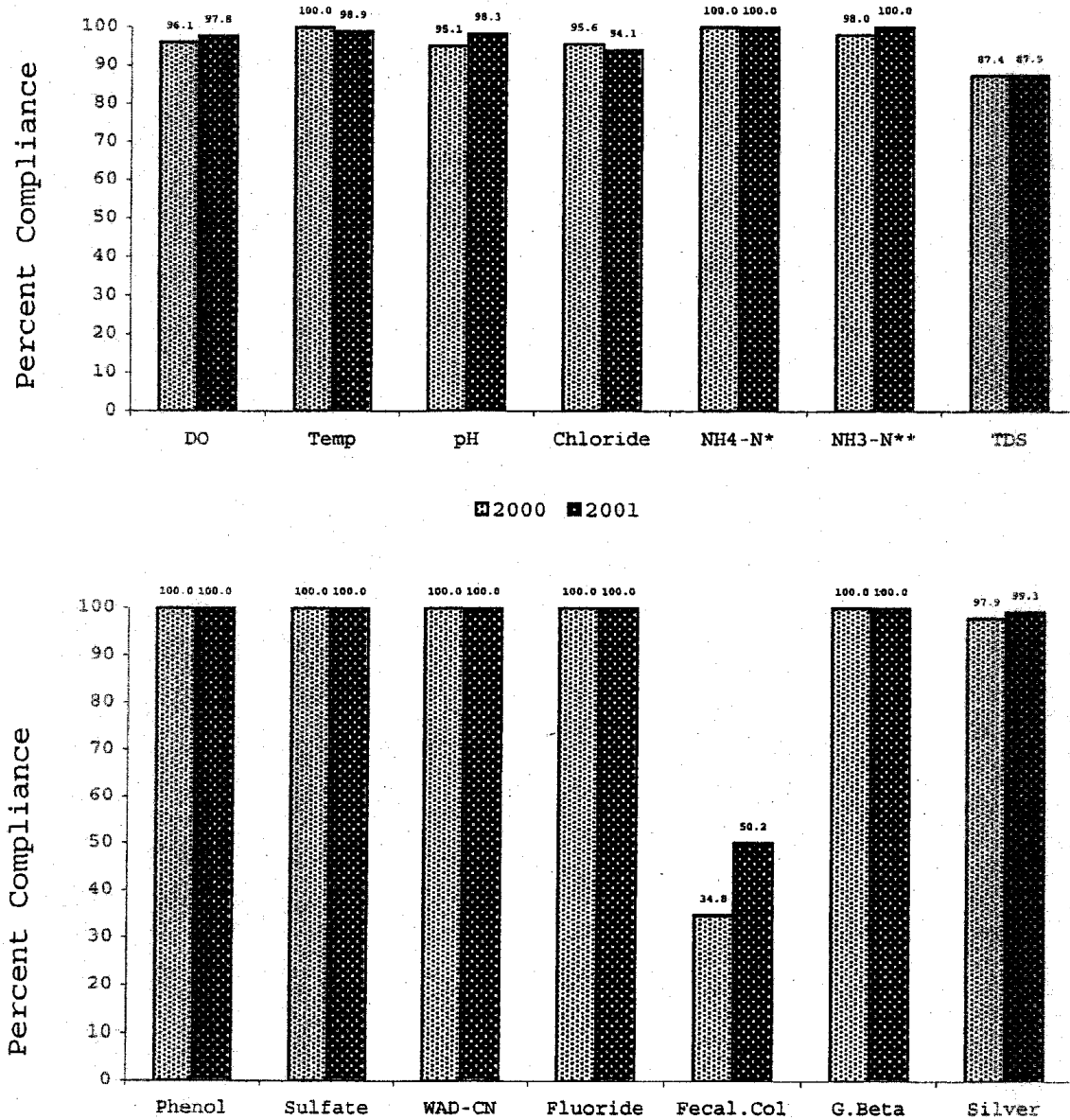




METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 4

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF DES PLAINES RIVER IN 2000 AND 2001

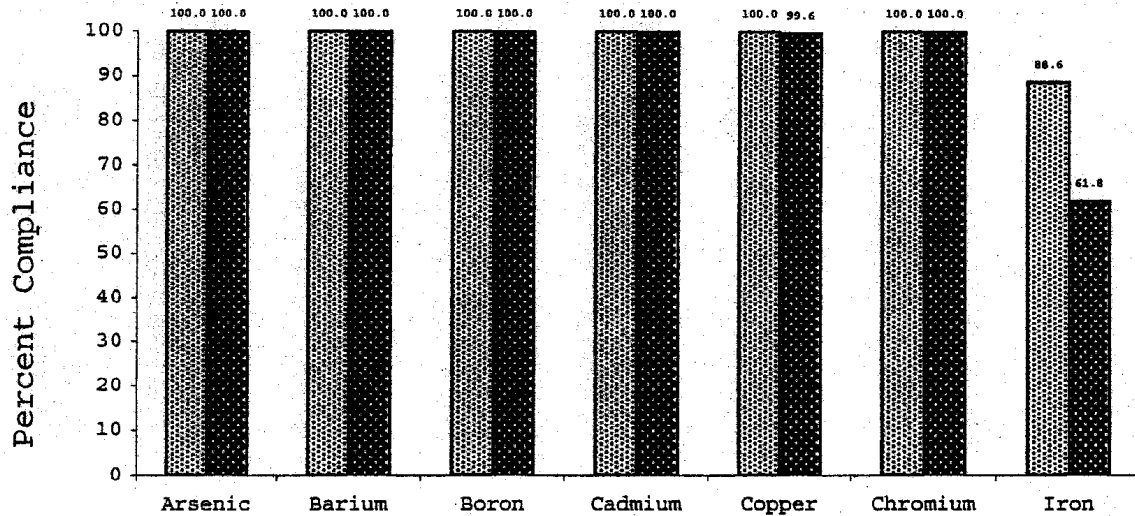


\*NH4-N = Ammonium Nitrogen  
 \*\*NH3-N = Un-ionized Ammonia

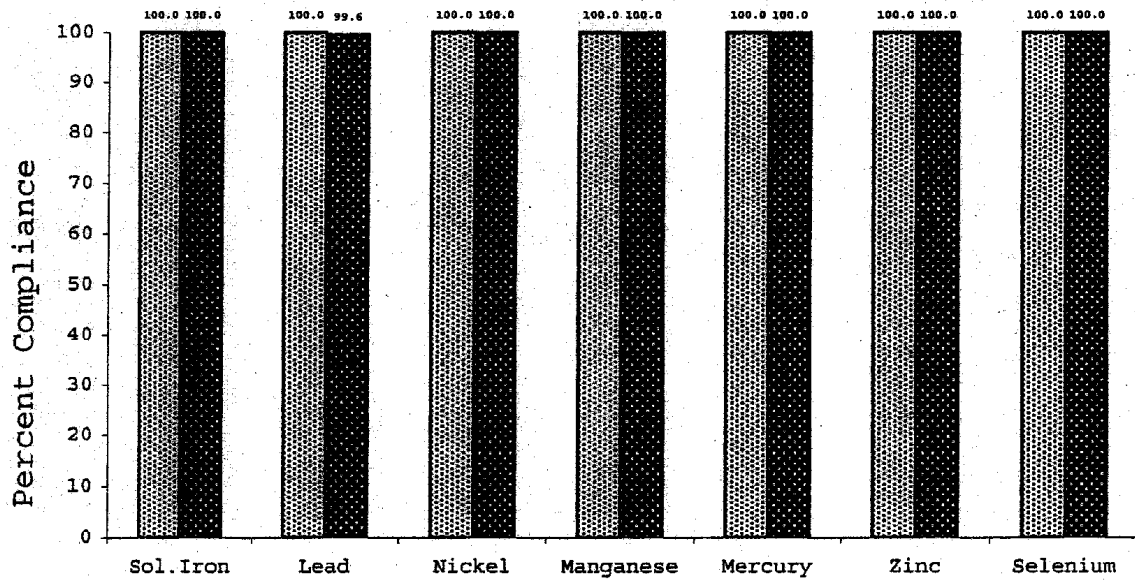
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 4 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR GENERAL USE WATERS SECTION OF DES PLAINES RIVER IN 2000 AND 2001



▨ 2000 ■ 2001



## 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 manmade canals in the Chicago and Calumet River Systems. The sampling locations used during 2001, 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, while six stations were sampled monthly in the Calumet 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.

### River System Compliance Data

In Secondary Contact Waters sampled during 2001, 23 parameters had IPCB Water Quality Standards. Summary results, including means and compliance standards, are shown in Appendix II for the Chicago and Calumet River Systems.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 6

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF  
SECONDARY CONTACT WATERS IN 2001

Map No <sup>1</sup> Station Name	Annual No. of Samples
<u>Chicago River System</u>	
36 Touhy Avenue, North Shore Channel	12
101 Foster Avenue, North Shore Channel	10
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	9
99 Archer Avenue, South Fork South Branch Chicago River	10
107 Western Avenue, Chicago Sanitary & Ship Canal	10
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>54</u>
	201
<u>Calumet River System</u>	
86 Burnham Avenue, Grand Calumet River	10
56 Indiana Avenue, Little Calumet River	17
76 Halsted Street, Little Calumet River	23
58 Ashland Avenue, Cal-Sag Channel	23
59 Cicero Avenue, Cal-Sag Channel	23
43 Route 83, Cal-Sag Channel	<u>22</u>
	118

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

Generally, compliance with IPCB standards was high in 2001 in both the Chicago and Calumet River Systems. Sixteen water quality parameters were in complete compliance in both of these river systems. They were temperature, phenols, total cyanide, fluoride, total silver, total arsenic, total barium, total cadmium, total copper, total chromium, soluble iron, total nickel, total manganese, total mercury, total zinc, and total selenium.

Seven 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	90.5	94.5
pH	98.2	100.0
Un-ionized Ammonia	99.4	100.0
Total Dissolved Solids	99.4	100.0
Fats, Oils, and Greases	97.8	100.0
Total Iron	99.5	96.9
Total Lead	99.4	98.6

#### CHICAGO RIVER SYSTEM

In addition to the 16 parameters previously listed, which were in complete compliance in Chicago and Calumet River Systems,

no other parameter had complete compliance. The 7 parameters (dissolved oxygen; pH; un-ionized ammonia; total dissolved solids; fats, oils, and greases; total iron; and total lead), which were not in total compliance, had a compliance rate in the range of 90.5 to 99.5 percent.

Dissolved oxygen had 20 violations, 9 at location 92 in May through October; 6 at location 99; 2 each at locations 42 and 48; and 1 at location 75.

Three pH violations occurred, 2 at location 92 in January and February, and 1 at location 99 in September.

Un-ionized ammonia had only 1 violation at location 99 in March.

Total dissolved solids also had 1 violation at location 92 in January.

Fats, oils, and greases had 4 violations, 2 at location 73, and 1 each at locations 92 and 108.

Total iron had only 1 violation at location 107 in August.

Total lead also had 1 violation at location 73 in January.

The compliance rates of all parameters in 2001 were not significantly different from those in 2000.

## CALUMET RIVER SYSTEM

In addition to the 16 parameters previously listed, which were in complete compliance in the Chicago and the Calumet River Systems, 4 more parameters (pH; un-ionized ammonia; total dissolved solids; and fats, oils, and greases) had complete compliance. However, the compliance rates for dissolved oxygen, total iron, and total lead were 94.5, 96.9, and 98.6 respectively.

Dissolved oxygen had 7 violations, 6 at location 86 in April through June, and August through October; and 1 at location 43 in August.

Total iron had 2 violations, 1 at location 43 in September, and 1 at location 59 in February.

Total lead had only 1 violation at location 43 in May.

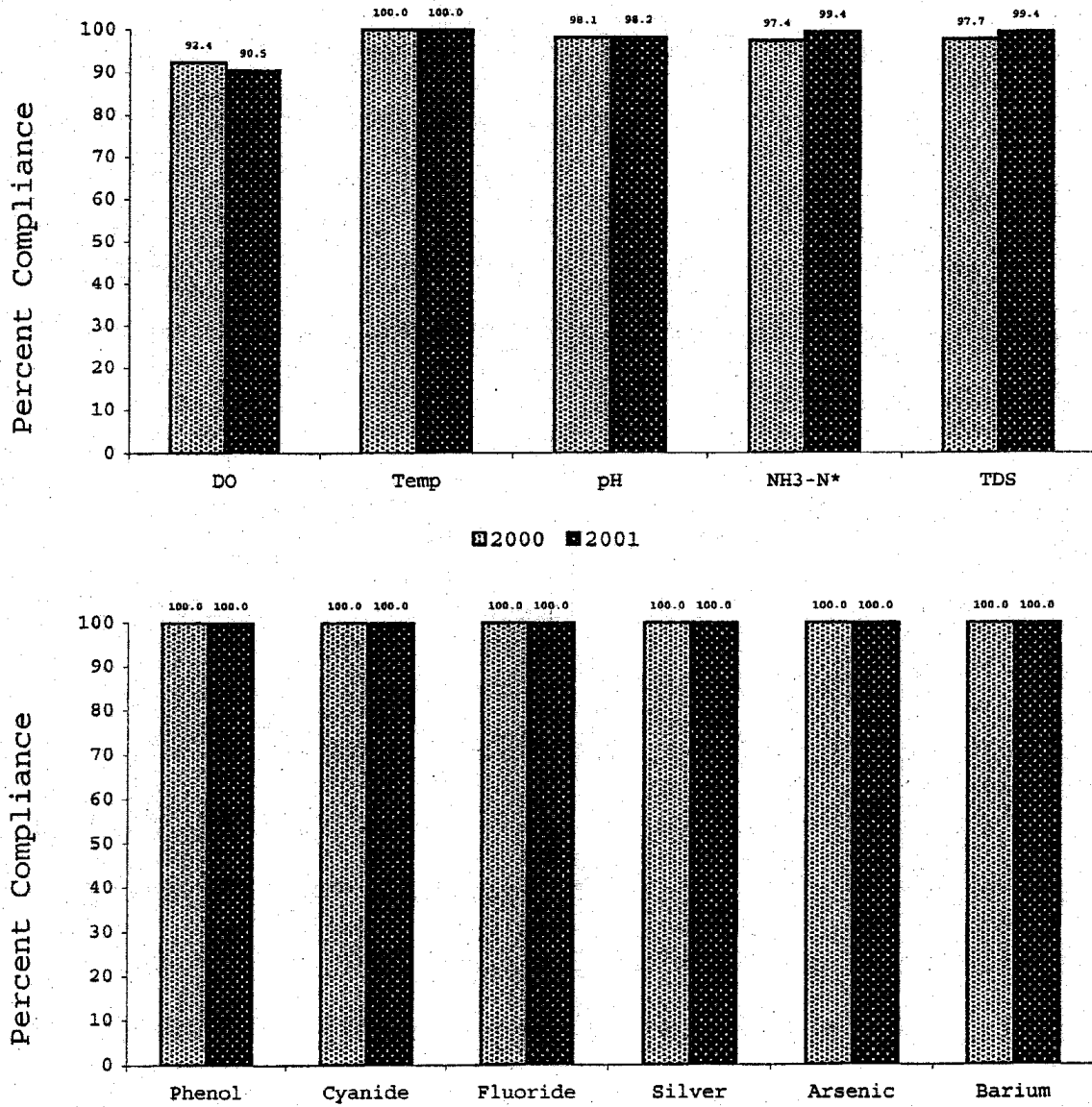
The compliance rates of all parameters in 2001 are not significantly different from those in 2000.

The compliance rates of 22 water quality parameters for Secondary Contact Waters of the two river systems during 2000 and 2001 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 2000 AND 2001



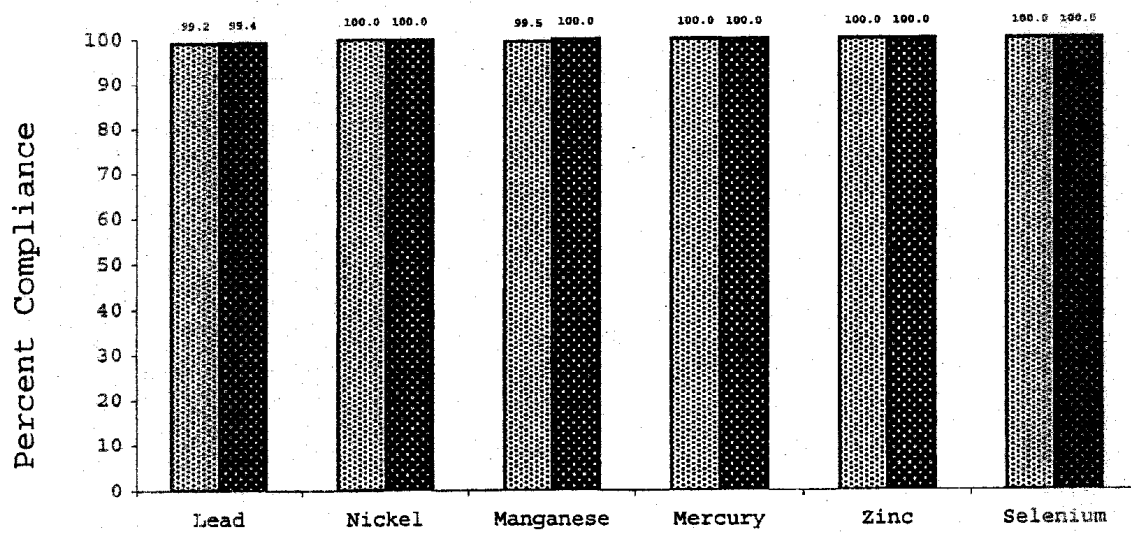
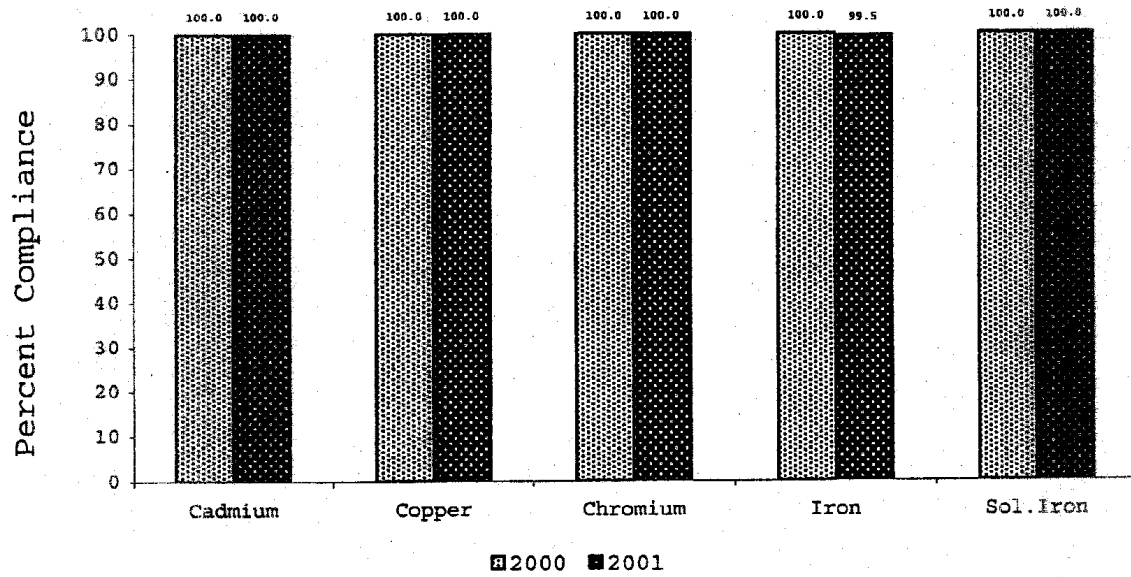
\*NH3-N = Un-ionized Ammonia



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 5 (Continued)

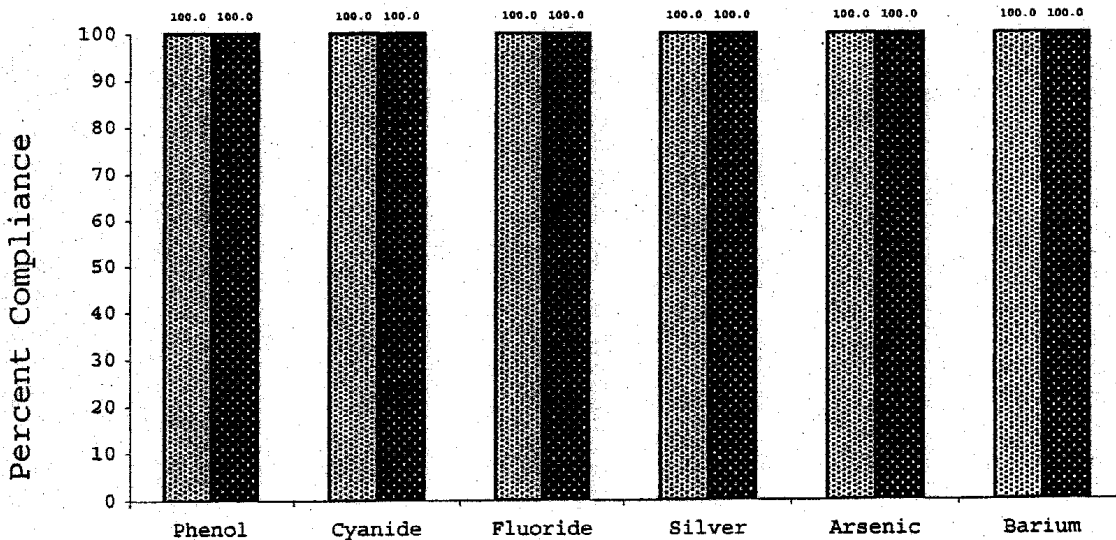
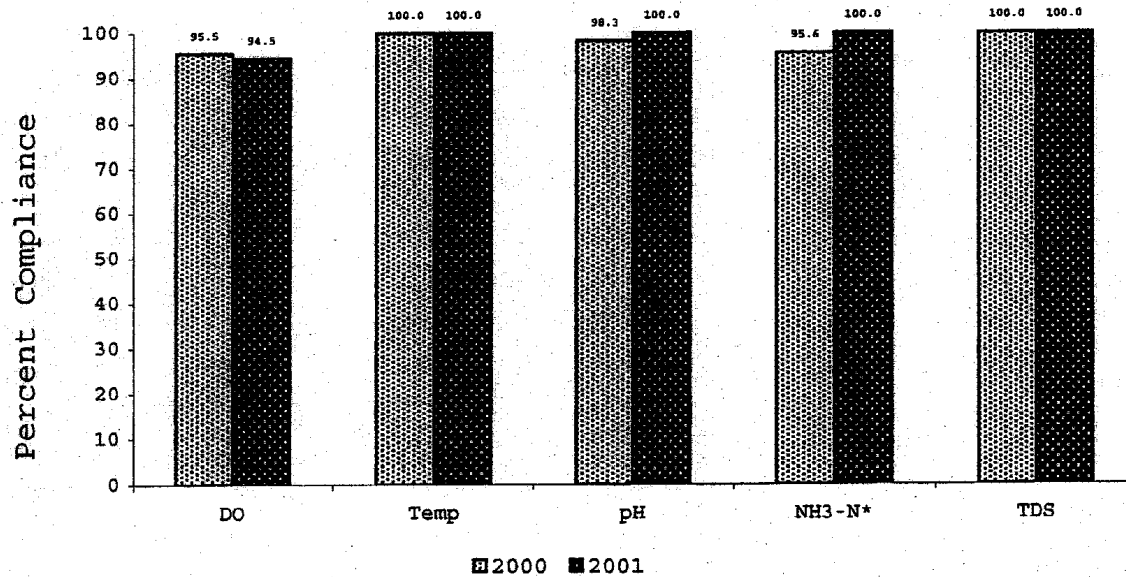
COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATERS SECTION OF CHICAGO RIVER IN 2000 AND 2001



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 6

COMPLIANCE RATES OF WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATERS SECTION OF CALUMET RIVER IN 2000 AND 2001

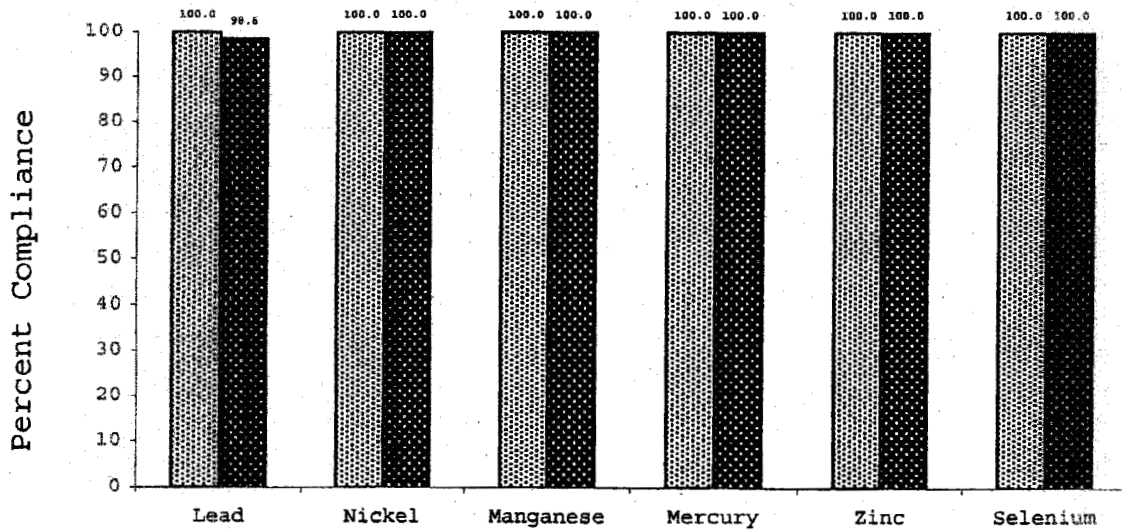
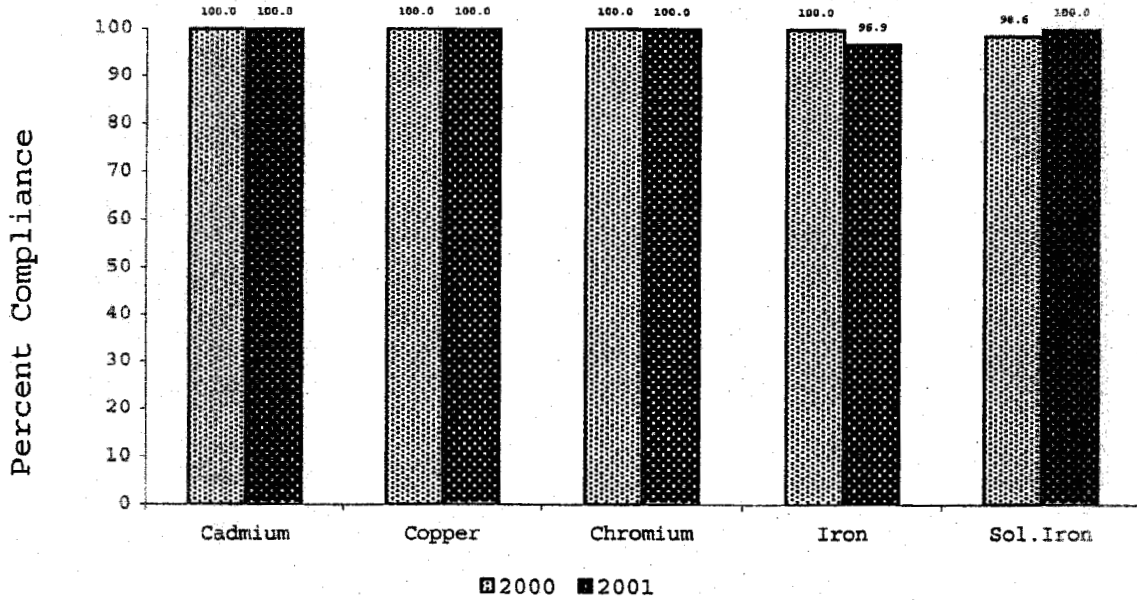


\*NH3-N = Un-ionized Ammonia

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 2000 AND 2001



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 2001. 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 2001, 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.

The outfalls for Hanover Park, John E. Egan, and James C. Kirie WRPs are located in the West Branch of the Du Page River, Salt Creek, and Higgins Creek, respectively. These streams fall within the General Use Waters classification with the respective sampling locations upstream and downstream as shown in Table 7. More specifically, the General Use outfalls are located as follows:

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 7

SAMPLING LOCATIONS AND SAMPLING FREQUENCIES  
UPSTREAM AND DOWNSTREAM OF DISTRICT  
WATER RECLAMATION PLANTS IN 2001

WRP	Upstream Sample			Downstream Sample		
	Location	No <sup>1</sup>	Annual Freq.	Location	No <sup>1</sup>	Annual Freq.
North Side	Central Road North Shore Channel	35	9	Touhy Ave. North Shore Channel	36	12
Stickney	Cicero Avenue Sanitary and Ship Canal	75	12	Harlem Avenue Sanitary and Ship Canal	41	12
Calumet	Indiana Avenue Calumet River	56	17	Halsted Street Calumet River	76	23
Egan	Higgins Road Salt Creek	79	10	Arlington Hts. Rd. Salt Creek	80	12
Kirie	Visitor's Road "A" Bridge Higgins Creek	77	11	Wille Road Higgins Creek	78	12
Hanover Park	Long Meadow Lane - West Branch Du Page River	63	4	Walnut Lane West Branch Du Page River	89	12

<sup>1</sup> Location No. of stations are shown in Figure 1.

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 13. Tables AIII-1 through AIII-6 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 concentrations for some parameters, and about the same for the other parameters. This is indicated by the value of



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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	1.56		6.90	0.00
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	0.22		2.20	0.01
Dissolved Oxygen	DO (mg/L)	8.03		7.39	0.34
Temperature	Temp (°C)	15.3		16.9	0.59
pH	pH	7.77		7.19	0.00
Chloride	Cl (mg/L)	16		152	0.00
Turbidity	Turb (NTU)	10.3		6.7	0.01
Alkalinity (Total)	Alk (mg/L)	111		151	0.00
Total Kjeldahl Nitrogen	TKN (mg/L)	0.63		2.66	0.00
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.183		1.063	0.00
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.004		0.007	0.46
Organic Nitrogen	ORG-N (mg/L)	0.44		1.60	0.00
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.28		5.57	0.00
Total Solids	TS (mg/L)	230		542	0.00
Total Suspended Solids	TSS (mg/L)	9.8		8.5	0.94
Volatile Suspended Solids	VSS (mg/L)	2.22		3.83	0.09
Total Dissolved Solids	TDS (mg/L)	220		534	0.00
Phenols	Phenol (µg/L)	4.6		14.3	0.02
Sulfate	SO <sub>4</sub> (mg/L)	25.6		79.8	0.00
Fats, Oils, and Greases	FOG (mg/L)	-		4.79	-
Total Phosphorus	T.P (mg/L)	0.058		1.259	0.00
Soluble Phosphorus	Sol.P (mg/L)	0.053		0.928	0.00
Total Cyanide	CN (mg/L)	0.001		0.006	0.00
WAD Cyanide	WAD-CN (mg/L)	0.000		0.001	0.00
Fluoride	F (mg/L)	0.138		0.694	0.00
Total Organic Carbon	TOC (mg/L)	3.33		8.00	0.00
Fecal Coliform	FC (#/100 ml)	356		4211	0.00
Escherichia Coli	EC (#/100 ml)	548		5337	0.38
Total Calcium	Ca (mg/L)	37.7		61.8	0.00
Soluble Calcium	Sol.Ca (mg/L)	34.7		52.7	0.00
Total Magnesium	Mg (mg/L)	12.2		23.2	0.00
Soluble Magnesium	Sol.Mg (mg/L)	11.3		19.8	0.00
Hardness	Hard (mg/L)	144		250	0.00
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.45		4.29	0.09
Gross Beta Radioactivity	G.Beta (pCi/L)	4.44		7.12	0.00

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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Total Silver	Ag (mg/L)	0.001		0.001	0.83
Soluble Silver	Sol.Ag (mg/L)	0.000		0.001	0.56
Total Arsenic	As (mg/L)	0.006		0.005	1.00
Soluble Arsenic	Sol.As (mg/L)	0.003		0.003	0.67
Total Barium	Ba (mg/L)	0.026		0.027	0.62
Soluble Barium	Sol.Ba (mg/L)	0.021		0.019	0.01
Total Boron	B (mg/L)	0.030		0.211	0.00
Soluble Boron	Sol.B (mg/L)	0.023		0.196	0.00
Total Cadmium	Cd (mg/L)	0.001		0.001	0.60
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.39
Total Copper	Cu (mg/L)	0.016		0.018	0.29
Soluble Copper	Sol.Cu (mg/L)	0.003		0.004	0.31
Total Chromium	Cr (mg/L)	0.003		0.002	0.59
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.000	0.94
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.000		0.000	1.00
Total Iron	Fe (mg/L)	0.357		0.284	0.29
Soluble Iron	Sol.Fe (mg/L)	0.042		0.070	0.00
Total Lead	Pb (mg/L)	0.006		0.005	1.00
Soluble Lead	Sol.Pb (mg/L)	0.000		0.000	1.00
Total Nickel	Ni (mg/L)	0.003		0.006	0.21
Soluble Nickel	Sol.Ni (mg/L)	0.001		0.004	0.17
Total Manganese	Mn (mg/L)	0.037		0.038	0.55
Soluble Manganese	Sol.Mn (mg/L)	0.013		0.023	0.27
Total Mercury	Hg (µg/L)	0.006		0.028	0.77
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	1.00
Total Zinc	Zn (mg/L)	0.023		0.055	0.00
Soluble Zinc	Sol.Zn (mg/L)	0.004		0.029	0.00
Total Selenium	Se (mg/L)	0.007		0.002	0.38
Soluble Selenium	Sol.Se (mg/L)	0.000		0.000	1.00

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

\*Geometric Mean

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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	2.20		2.90	0.55
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	1.30		1.30	1.00
Dissolved Oxygen	DO (mg/L)	5.28		6.60	0.03
Temperature	Temp (°C)	18.1		17.1	0.74
pH	pH	7.23		7.19	0.75
Chloride	Cl (mg/L)	148		170	0.37
Turbidity	Turb (NTU)	13.6		8.5	0.00
Alkalinity (Total)	Alk (mg/L)	141		139	0.78
Total Kjeldahl Nitrogen	TKN (mg/L)	1.92		1.91	0.82
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.769		0.754	0.34
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.005		0.005	0.44
Organic Nitrogen	ORG-N (mg/L)	1.15		1.16	0.93
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	3.54		6.26	0.00
Total Solids	TS (mg/L)	522		584	0.37
Total Suspended Solids	TSS (mg/L)	20.8		10.8	0.00
Volatile Suspended Solids	VSS (mg/L)	5.00		3.17	0.00
Total Dissolved Solids	TDS (mg/L)	502		574	0.34
Phenols	Phenol (µg/L)	11.7		14.8	0.40
Sulfate	SO <sub>4</sub> (mg/L)	46.8		63.6	0.01
Fats, Oils, and Greases	FOG (mg/L)	4.09		4.09	0.34
Total Phosphorus	T.P (mg/L)	0.671		0.990	0.06
Soluble Phosphorus	Sol.P (mg/L)	0.646		0.618	0.91
Total Cyanide	CN (mg/L)	0.004		0.006	0.04
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	0.23
Fluoride	F (mg/L)	0.471		0.632	0.03
Total Organic Carbon	TOC (mg/L)	6.58		7.25	0.37
Fecal Coliform	FC (#/100 ml)	303		4126	0.00
Escherichia Coli	EC (#/100 ml)	70		3900	0.15
Total Calcium	Ca (mg/L)	55.7		59.6	0.41
Soluble Calcium	Sol.Ca (mg/L)	48.9		50.7	0.67
Total Magnesium	Mg (mg/L)	21.3		23.1	0.47
Soluble Magnesium	Sol.Mg (mg/L)	18.3		19.2	0.66
Hardness	Hard (mg/L)	227		244	0.44
Gross Alpha Radioactivity	G.Alpha (pCi/L)	4.32		4.49	0.58
Gross Beta Radioactivity	G.Beta (pCi/L)	8.01		8.32	0.81

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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Total Silver	Ag (mg/L)	0.001		0.000	0.93
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	0.58
Total Arsenic	As (mg/L)	0.004		0.006	0.66
Soluble Arsenic	Sol.As (mg/L)	0.004		0.000	0.03
Total Barium	Ba (mg/L)	0.031		0.026	0.01
Soluble Barium	Sol.Ba (mg/L)	0.020		0.017	0.04
Total Boron	B (mg/L)	0.143		0.190	0.04
Soluble Boron	Sol.B (mg/L)	0.119		0.163	0.05
Total Cadmium	Cd (mg/L)	0.001		0.000	0.20
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.95
Total Copper	Cu (mg/L)	0.020		0.014	0.01
Soluble Copper	Sol.Cu (mg/L)	0.005		0.004	0.76
Total Chromium	Cr (mg/L)	0.003		0.005	0.27
Soluble Chromium	Sol.Cr (mg/L)	0.000		0.002	0.10
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.000		0.000	1.00
Total Iron	Fe (mg/L)	0.621		0.331	0.00
Soluble Iron	Sol.Fe (mg/L)	0.073		0.106	0.13
Total Lead	Pb (mg/L)	0.000		0.002	0.38
Soluble Lead	Sol.Pb (mg/L)	0.000		0.001	0.37
Total Nickel	Ni (mg/L)	0.005		0.005	0.91
Soluble Nickel	Sol.Ni (mg/L)	0.003		0.003	1.00
Total Manganese	Mn (mg/L)	0.045		0.030	0.03
Soluble Manganese	Sol.Mn (mg/L)	0.018		0.015	0.39
Total Mercury	Hg (µg/L)	0.003		0.016	0.27
Soluble Mercury	Sol.Hg (µg/L)	-		0.017	-
Total Zinc	Zn (mg/L)	0.057		0.046	0.23
Soluble Zinc	Sol.Zn (mg/L)	0.018		0.022	0.43
Total Selenium	Se (mg/L)	0.007		0.004	0.62
Soluble Selenium	Sol.Se (mg/L)	0.000		0.000	1.00

<sup>1</sup>Significance probability  $\leq 0.05$  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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	2.75		2.90	0.74
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	1.38		1.40	0.92
Dissolved Oxygen	DO (mg/L)	8.59		6.69	0.00
Temperature	Temp (°C)	17.8		15.0	0.41
pH	pH	7.79		7.21	0.02
Chloride	Cl (mg/L)	95		162	0.04
Turbidity	Turb (NTU)	17.9		11.1	0.02
Alkalinity (Total)	Alk (mg/L)	126		159	0.01
Total Kjeldahl Nitrogen	TKN (mg/L)	1.05		1.58	0.04
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.127		0.355	0.11
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.004		0.002	0.33
Organic Nitrogen	ORG-N (mg/L)	0.92		1.23	0.10
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.95		4.80	0.01
Total Solids	TS (mg/L)	414		622	0.07
Total Suspended Solids	TSS (mg/L)	29.6		15.4	0.02
Volatile Suspended Solids	VSS (mg/L)	5.38		4.25	0.32
Total Dissolved Solids	TDS (mg/L)	385		606	0.03
Phenols	Phenol (µg/L)	6.0		11.4	0.24
Sulfate	SO <sub>4</sub> (mg/L)	73.4		113.3	0.03
Fats, Oils, and Greases	FOG (mg/L)	3.39		4.54	0.75
Total Phosphorus	T.P (mg/L)	0.554		1.386	0.01
Soluble Phosphorus	Sol.P (mg/L)	0.090		1.372	-
Total Cyanide	CN (mg/L)	0.002		0.007	0.00
WAD Cyanide	WAD-CN (mg/L)	0.000		0.001	0.01
Fluoride	F (mg/L)	0.375		0.730	0.01
Total Organic Carbon	TOC (mg/L)	5.75		7.50	0.03
Fecal Coliform	FC (#/100 ml)	364		2550	0.03
Escherichia Coli	EC (#/100 ml)	670		3350	0.13
Total Calcium	Ca (mg/L)	52.5		71.1	0.02
Soluble Calcium	Sol.Ca (mg/L)	48.5		63.1	0.07
Total Magnesium	Mg (mg/L)	20.1		26.5	0.11
Soluble Magnesium	Sol.Mg (mg/L)	19.1		23.4	0.27
Hardness	Hard (mg/L)	214		287	0.04
Gross Alpha Radioactivity	G.Alpha (pCi/L)	4.25		4.34	0.85
Gross Beta Radioactivity	G.Beta (pCi/L)	8.20		7.44	0.66

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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Total Silver	Ag (mg/L)	0.002		0.001	0.69
Soluble Silver	Sol.Ag (mg/L)	0.001		0.000	0.12
Total Arsenic	As (mg/L)	0.004		0.005	0.66
Soluble Arsenic	Sol.As (mg/L)	0.000		0.002	0.22
Total Barium	Ba (mg/L)	0.035		0.030	0.27
Soluble Barium	Sol.Ba (mg/L)	0.028		0.022	0.05
Total Boron	B (mg/L)	0.152		0.228	0.04
Soluble Boron	Sol.B (mg/L)	0.143		0.194	0.16
Total Cadmium	Cd (mg/L)	0.002		0.000	0.24
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.93
Total Copper	Cu (mg/L)	0.014		0.017	0.46
Soluble Copper	Sol.Cu (mg/L)	0.002		0.003	0.58
Total Chromium	Cr (mg/L)	0.002		0.004	0.25
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.002	0.46
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.000		0.000	1.00
Total Iron	Fe (mg/L)	0.633		0.511	0.13
Soluble Iron	Sol.Fe (mg/L)	0.057		0.082	0.02
Total Lead	Pb (mg/L)	0.002		0.000	0.26
Soluble Lead	Sol.Pb (mg/L)	0.000		0.000	1.00
Total Nickel	Ni (mg/L)	0.002		0.003	0.58
Soluble Nickel	Sol.Ni (mg/L)	0.001		0.001	0.74
Total Manganese	Mn (mg/L)	0.041		0.068	0.06
Soluble Manganese	Sol.Mn (mg/L)	0.009		0.040	0.00
Total Mercury	Hg (µg/L)	0.021		0.003	0.29
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	1.00
Total Zinc	Zn (mg/L)	0.034		0.066	0.03
Soluble Zinc	Sol.Zn (mg/L)	0.008		0.023	0.01
Total Selenium	Se (mg/L)	0.000		0.007	0.09
Soluble Selenium	Sol.Se (mg/L)	0.000		0.000	1.00

<sup>1</sup>Significance probability  $\leq 0.05$  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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	-		-	-
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	-		-	-
Dissolved Oxygen	DO (mg/L)	8.88		8.29	0.60
Temperature	Temp (°C)	16.8		14.5	0.52
pH	pH	7.50		7.44	1.00
Chloride	Cl (mg/L)	327		234	0.14
Turbidity	Turb (NTU)	22.5		9.8	0.00
Alkalinity (Total)	Alk (mg/L)	182		147	0.01
Total Kjeldahl Nitrogen	TKN (mg/L)	1.49		1.64	0.32
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.106		0.192	0.27
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.001		0.002	0.45
Organic Nitrogen	ORG-N (mg/L)	1.38		1.45	0.70
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.28		6.92	0.00
Total Solids	TS (mg/L)	896		743	0.22
Total Suspended Solids	TSS (mg/L)	33.9		11.3	0.00
Volatile Suspended Solids	VSS (mg/L)	9.30		3.75	0.00
Total Dissolved Solids	TDS (mg/L)	862		732	0.41
Phenols	Phenol (µg/L)	13.4		15.3	0.62
Sulfate	SO <sub>4</sub> (mg/L)	89.5		84.4	0.89
Fats, Oils, and Greases	FOG (mg/L)	-		-	-
Total Phosphorus	T.P (mg/L)	0.106		1.687	0.00
Soluble Phosphorus	Sol.P (mg/L)	0.000		1.265	0.01
Total Cyanide	CN (mg/L)	0.002		0.008	0.00
WAD Cyanide	WAD-CN (mg/L)	0.001		0.002	0.01
Fluoride	F (mg/L)	0.253		0.572	0.00
Total Organic Carbon	TOC (mg/L)	9.20		9.83	0.15
Fecal Coliform	FC (#/100 ml)	49		426	0.01
Escherichia Coli	EC (#/100 ml)	122		1027	0.09
Total Calcium	Ca (mg/L)	79.3		69.2	0.26
Soluble Calcium	Sol.Ca (mg/L)	72.1		60.0	0.15
Total Magnesium	Mg (mg/L)	36.7		28.6	0.18
Soluble Magnesium	Sol.Mg (mg/L)	34.0		24.5	0.05
Hardness	Hard (mg/L)	349		290	0.34
Gross Alpha Radioactivity	G.Alpha (pCi/L)	5.54		5.07	0.25
Gross Beta Radioactivity	G.Beta (pCi/L)	7.05		9.32	0.03

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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Total Silver	Ag (mg/L)	0.001		0.000	0.77
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	0.37
Total Arsenic	As (mg/L)	0.007		0.003	0.44
Soluble Arsenic	Sol.As (mg/L)	0.003		0.002	0.96
Total Barium	Ba (mg/L)	0.061		0.035	0.00
Soluble Barium	Sol.Ba (mg/L)	0.048		0.025	0.00
Total Boron	B (mg/L)	0.099		0.222	0.00
Soluble Boron	Sol.B (mg/L)	0.090		0.217	0.00
Total Cadmium	Cd (mg/L)	0.001		0.001	0.86
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.88
Total Copper	Cu (mg/L)	0.014		0.021	0.14
Soluble Copper	Sol.Cu (mg/L)	0.004		0.008	0.03
Total Chromium	Cr (mg/L)	0.005		0.005	1.00
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.001	0.69
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.000		0.000	1.00
Total Iron	Fe (mg/L)	1.119		0.511	0.00
Soluble Iron	Sol.Fe (mg/L)	0.095		0.107	0.10
Total Lead	Pb (mg/L)	0.052		0.000	0.32
Soluble Lead	Sol.Pb (mg/L)	0.000		0.000	1.00
Total Nickel	Ni (mg/L)	0.004		0.003	0.53
Soluble Nickel	Sol.Ni (mg/L)	0.002		0.003	0.58
Total Manganese	Mn (mg/L)	0.124		0.051	0.00
Soluble Manganese	Sol.Mn (mg/L)	0.041		0.021	0.52
Total Mercury	Hg (µg/L)	0.005		0.009	1.00
Soluble Mercury	Sol.Hg (µg/L)	0.000		-	-
Total Zinc	Zn (mg/L)	0.027		0.038	0.08
Soluble Zinc	Sol.Zn (mg/L)	0.002		0.020	0.00
Total Selenium	Se (mg/L)	0.011		0.010	0.68
Soluble Selenium	Sol.Se (mg/L)	0.000		0.000	1.00

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

\*Geometric Mean



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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	-		-	-
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	-		-	-
Dissolved Oxygen	DO (mg/L)	8.42		8.93	0.61
Temperature	Temp (°C)	14.5		15.6	0.79
pH	pH	7.65		7.72	0.67
Chloride	Cl (mg/L)	479		221	0.02
Turbidity	Turb (NTU)	18.8		7.3	0.00
Alkalinity (Total)	Alk (mg/L)	168		195	0.08
Total Kjeldahl Nitrogen	TKN (mg/L)	1.34		1.85	0.04
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.187		0.250	0.18
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.004		0.005	0.52
Organic Nitrogen	ORG-N (mg/L)	1.16		1.60	0.05
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.58		5.44	0.00
Total Solids	TS (mg/L)	1120		785	0.37
Total Suspended Solids	TSS (mg/L)	28.2		5.5	0.00
Volatile Suspended Solids	VSS (mg/L)	6.36		2.75	0.00
Total Dissolved Solids	TDS (mg/L)	1092		780	0.56
Phenols	Phenol (µg/L)	14.9		19.0	0.45
Sulfate	SO <sub>4</sub> (mg/L)	60.9		107.8	0.00
Fats, Oils, and Greases	FOG (mg/L)	-		-	-
Total Phosphorus	T.P (mg/L)	0.112		0.507	0.00
Soluble Phosphorus	Sol.P (mg/L)	0.026		0.265	0.00
Total Cyanide	CN (mg/L)	0.003		0.007	0.00
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	0.25
Fluoride	F (mg/L)	0.315		0.762	0.00
Total Organic Carbon	TOC (mg/L)	10.09		9.92	0.44
Fecal Coliform*	FC (#/100 ml)	598		256	0.34
Escherichia Coli	EC (#/100 ml)	5916		440	0.30
Total Calcium	Ca (mg/L)	79.6		80.9	0.89
Soluble Calcium	Sol.Ca (mg/L)	64.0		76.1	0.11
Total Magnesium	Mg (mg/L)	32.5		32.6	0.37
Soluble Magnesium	Sol.Mg (mg/L)	26.3		30.4	0.20
Hardness	Hard (mg/L)	332		336	0.41
Gross Alpha Radioactivity	G.Alpha (pCi/L)	5.82		5.44	0.55
Gross Beta Radioactivity	G.Beta (pCi/L)	7.32		15.72	0.00

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 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Total Silver	Ag (mg/L)	0.001		0.001	0.88
Soluble Silver	Sol.Ag (mg/L)	0.001		0.001	0.96
Total Arsenic	As (mg/L)	0.004		0.002	0.53
Soluble Arsenic	Sol.As (mg/L)	0.004		0.002	0.29
Total Barium	Ba (mg/L)	0.072		0.032	0.00
Soluble Barium	Sol.Ba (mg/L)	0.056		0.024	0.00
Total Boron	B (mg/L)	0.116		0.377	0.00
Soluble Boron	Sol.B (mg/L)	0.103		0.384	0.00
Total Cadmium	Cd (mg/L)	0.001		0.001	1.00
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.80
Total Copper	Cu (mg/L)	0.017		0.015	0.69
Soluble Copper	Sol.Cu (mg/L)	0.003		0.005	0.07
Total Chromium	Cr (mg/L)	0.001		0.004	0.04
Soluble Chromium	Sol.Cr (mg/L)	0.000		0.001	0.61
Total Hexavalent Chromium	Cr <sup>+6</sup> (μg/L)	0.000		0.000	1.00
Total Iron	Fe (mg/L)	1.127		0.334	0.00
Soluble Iron	Sol.Fe (mg/L)	0.098		0.108	0.36
Total Lead	Pb (mg/L)	0.000		0.002	0.38
Soluble Lead	Sol.Pb (mg/L)	0.000		0.000	1.00
Total Nickel	Ni (mg/L)	0.004		0.008	0.06
Soluble Nickel	Sol.Ni (mg/L)	0.002		0.008	0.01
Total Manganese	Mn (mg/L)	0.163		0.038	0.00
Soluble Manganese	Sol.Mn (mg/L)	0.099		0.018	0.00
Total Mercury	Hg (μg/L)	0.015		0.017	0.83
Soluble Mercury	Sol.Hg (μg/L)	0.040		0.033	0.76
Total Zinc	Zn (mg/L)	0.041		0.062	0.03
Soluble Zinc	Sol.Zn (mg/L)	0.012		0.043	0.00
Total Selenium	Se (mg/L)	0.008		0.007	0.73
Soluble Selenium	Sol.Se (mg/L)	0.002		0.000	0.34

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

\*Geometric Mean

## METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 13

 COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
 FOR HANOVER PARK WATER RECLAMATION PLANT IN 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	-		-	-
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	-		-	-
Dissolved Oxygen	DO (mg/L)	8.18		6.82	0.65
Temperature	Temp (°C)	11.3		15.8	0.27
pH	pH	7.43		7.42	0.97
Chloride	Cl (mg/L)	283		171	0.06
Turbidity	Turb (NTU)	20.3		9.0	0.03
Alkalinity (Total)	Alk (mg/L)	195		165	0.34
Total Kjeldahl Nitrogen	TKN (mg/L)	1.88		2.30	0.59
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.305		0.294	0.16
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.002		0.004	0.25
Organic Nitrogen	ORG-N (mg/L)	1.58		2.00	0.29
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.32		7.24	0.00
Total Solids	TS (mg/L)	888		645	0.05
Total Suspended Solids	TSS (mg/L)	30.3		18.8	0.20
Volatle Suspended Solids	VSS (mg/L)	4.00		4.75	0.62
Total Dissolved Solids	TDS (mg/L)	858		626	0.03
Phenols	Phenol (µg/L)	18.0		17.1	0.89
Sulfate	SO <sub>4</sub> (mg/L)	83.5		73.5	0.08
Fats, Oils, and Greases	FOG (mg/L)	-		-	-
Total Phosphorus	T.P (mg/L)	0.225		2.428	0.00
Soluble Phosphorus	Sol.P (mg/L)	0.137		1.970	0.00
Total Cyanide	CN (mg/L)	0.004		0.010	0.01
WAD Cyanide	WAD-CN (mg/L)	0.001		0.002	0.07
Fluoride	F (mg/L)	0.295		0.721	0.00
Total Organic Carbon	TOC (mg/L)	12.75		11.17	0.42
Fecal Coliform*	FC (#/100 ml)	1075		1273	0.86
Escherichia Coli	EC (#/100 ml)	2070		754	0.37
Total Calcium	Ca (mg/L)	99.6		67.8	0.09
Soluble Calcium	Sol.Ca (mg/L)	84.6		58.8	0.00
Total Magnesium	Mg (mg/L)	41.5		26.8	0.01
Soluble Magnesium	Sol.Mg (mg/L)	34.8		23.7	0.00
Hardness	Hard (mg/L)	419		280	0.09
Gross Alpha Radioactivity	G.Alpha (pCi/L)	5.23		4.53	0.25
Gross Beta Radioactivity	G.Beta (pCi/L)	7.02		9.50	0.08

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 13 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR HANOVER PARK WATER RECLAMATION PLANT IN 2001

Parameters	Abbreviation (Units)	U	vs	D	Sig Prob <sup>1</sup>
Total Silver	Ag (mg/L)	0.002		0.001	0.34
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	1.00
Total Arsenic	As (mg/L)	0.005		0.006	1.00
Soluble Arsenic	Sol.As (mg/L)	0.000		0.001	0.72
Total Barium	Ba (mg/L)	0.072		0.035	0.01
Soluble Barium	Sol.Ba (mg/L)	0.058		0.024	0.01
Total Boron	B (mg/L)	0.083		0.296	0.01
Soluble Boron	Sol.B (mg/L)	0.068		0.296	0.01
Total Cadmium	Cd (mg/L)	0.001		0.001	1.00
Soluble Cadmium	Sol.Cd (mg/L)	0.001		0.000	0.86
Total Copper	Cu (mg/L)	0.019		0.020	0.72
Soluble Copper	Sol.Cu (mg/L)	0.002		0.007	0.00
Total Chromium	Cr (mg/L)	0.009		0.004	0.19
Soluble Chromium	Sol.Cr (mg/L)	0.002		0.001	0.50
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.000		0.000	1.00
Total Iron	Fe (mg/L)	1.256		0.477	0.02
Soluble Iron	Sol.Fe (mg/L)	0.185		0.096	0.00
Total Lead	Pb (mg/L)	0.000		0.000	1.00
Soluble Lead	Sol.Pb (mg/L)	0.000		0.000	1.00
Total Nickel	Ni (mg/L)	0.004		0.002	0.74
Soluble Nickel	Sol.Ni (mg/L)	0.001		0.001	1.00
Total Manganese	Mn (mg/L)	0.151		0.074	0.06
Soluble Manganese	Sol.Mn (mg/L)	0.093		0.046	0.05
Total Mercury	Hg (µg/L)	0.000		0.009	0.46
Soluble Mercury	Sol.Hg (µg/L)	-		0.025	-
Total Zinc	Zn (mg/L)	0.041		0.061	0.20
Soluble Zinc	Sol.Zn (mg/L)	0.014		0.032	0.01
Total Selenium	Se (mg/L)	0.005		0.007	0.94
Soluble Selenium	Sol.Se (mg/L)	0.000		0.002	0.72

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

\*Geometric Mean

significance probability given in Tables 8 through 13. 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 13, 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 33 water quality parameters mean concentrations are significantly different between upstream and downstream locations:

- Biochemical Oxygen Demand, Carbonaceous Biochemical Oxygen Demand, pH, chloride, turbidity, alkalinity, total Kjeldahl nitrogen, ammonium nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total solids, total dissolved solids, phenols, sulfate, total phosphorus, soluble

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, soluble barium, total boron, soluble boron, soluble iron, total zinc, and soluble zinc.

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

Among the 33 parameters listed above, 14 parameters have either IPCB General Use or Secondary Contact Water quality limits. These parameters are:

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

At location 35, 12 parameters were in total compliance:

- pH, chloride, ammonium nitrogen, total dissolved solids, phenols, sulfate, weak acid dissociable

cyanide, fluoride, gross beta radioactivity, total boron, soluble iron, and total zinc.

The percent compliance for fecal coliform was 44.4 percent. General Use waters do not have an IPCB cyanide water quality limit.

At location 36, 7 parameters have Secondary Contact Water quality limits. These parameters are:

- pH, total dissolved solids, phenols, total cyanide, fluoride, soluble iron, and total zinc.

All 7 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. Sixteen water quality parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Dissolved oxygen, turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, sulfate, total cyanide, fluoride, fecal coliform, soluble arsenic, total



barium, soluble barium, total boron, total copper, total iron, and total manganese.

The downstream averages of 7 parameters were significantly higher than the upstream averages. These parameters were:

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

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

- Turbidity, total suspended solids, volatile suspended solids, soluble arsenic, total barium, soluble barium, total copper, total iron, and total manganese.

Among the 16 parameters listed above, dissolved oxygen, total cyanide, fluoride, total barium, total copper, total iron, and total manganese have Secondary Contact Water quality limits. Dissolved oxygen had 91.7 percent compliance at the upstream location and total compliance at the downstream location. Total cyanide, 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-four water quality parameters had significantly different mean concentrations between upstream and downstream locations. These parameters were:

- Dissolved oxygen, pH, chloride, turbidity, alkalinity, total Kjeldahl nitrogen, nitrite plus nitrate nitrogen, total suspended solids, total dissolved solids, sulfate, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium, hardness, soluble barium, total boron, soluble iron, soluble manganese, total zinc, and soluble zinc.

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

- Chloride, alkalinity, total Kjeldahl nitrogen, nitrite plus nitrate nitrogen, total dissolved solids, sulfate, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium,

hardness, total boron, soluble iron, soluble manganese, total zinc, and soluble zinc.

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

- Dissolved oxygen, pH, turbidity, total suspended solids, and soluble barium.

Among the 24 parameters listed above, 7 parameters have Secondary Contact Water quality limits. These parameters were:

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

All 7 parameters were in total compliance at upstream and downstream 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. Twenty water quality parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Turbidity, alkalinity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, total phosphorus, soluble

phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, total barium, soluble barium, total boron, soluble boron, soluble copper, total iron, total manganese, and soluble zinc.

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

- Nitrite plus nitrate nitrogen, total phosphorus, soluble phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, 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, alkalinity, total suspended solids, volatile suspended solids, total barium, soluble barium, total iron, and total manganese.

Among the 20 parameters listed above which had significantly different mean concentrations between the upstream and the downstream locations, 8 parameters have applicable General Use Water quality limits. These parameters are:

- Weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, total barium, total boron, total iron, and total manganese.

Six parameters were in complete compliance at both locations.

Fecal coliform had 90.0 percent compliance at the upstream location and 50.0 percent compliance at the downstream location.

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

#### 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-four parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Chloride, turbidity, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, sulfate, total phosphorus, soluble phosphorus,

total cyanide, fluoride, gross beta radioactivity, total barium, soluble barium, total boron, soluble boron, total chromium, total iron, soluble nickel, total manganese, soluble manganese, total zinc, and soluble zinc.

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

- Total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, sulfate, total phosphorus, soluble phosphorus, total cyanide, fluoride, gross beta radioactivity, total boron, soluble boron, total chromium, soluble nickel, total zinc, and soluble zinc.

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

- Chloride, turbidity, total suspended solids, volatile suspended solids, total barium, soluble barium, total iron, total manganese, and soluble manganese.

Among the 24 parameters listed above, 10 parameters have General Use Water quality limits. These parameters are:

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

Total iron had 45.5 percent compliance at the upstream location and 91.7 percent compliance at the downstream location.

Chloride had 72.7 percent compliance at the upstream location and complete compliance at the downstream location. All 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. Nineteen parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Turbidity, nitrite plus nitrate nitrogen, total solids, total dissolved solids, total phosphorus, soluble phosphorus, total cyanide, fluoride, soluble calcium, total magnesium, soluble magnesium, total barium, soluble barium, total

boron, soluble boron, soluble copper, total iron, soluble iron, and soluble zinc.

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

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

Ten parameters, turbidity, total solids, total dissolved solids, soluble calcium, total magnesium, soluble magnesium, total barium, soluble barium, total iron, and soluble iron had significantly higher mean concentrations at the upstream location than the downstream location.

Of the 19 parameters listed above which had significantly different mean concentrations, 6 parameters have General Use Waters quality limits. These parameters are:

- Total dissolved solids, fluoride, total barium, total boron, total iron, and soluble iron.

Total iron had zero percent compliance at the upstream location and 91.7 percent compliance at the downstream location.



Total dissolved solids had 75.0 percent compliance at the upstream location, and 91.7 percent in the downstream location. The remaining 3 parameters had complete compliance at both locations.

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APPENDIX I

WATERWAYS DATA MANAGEMENT SYSTEM DESCRIPTION

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1

PARAMETER DIRECTORY FOR WATER QUALITY NETWORK

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
BOD <sub>5</sub>	Biochemical Oxygen Demand	mg/L	None	None
CBOD <sub>5</sub>	Carbonaceous Biochemical-Oxygen Demand	mg/L	None	None
COD	Chemical Oxygen Demand	mg/L	None	None
DO	Dissolved Oxygen	mg/L	5.00	4.00
ORP	Oxidation-Reduction Potential	mv	None	None
Temp	Temperature	°C	16.0 (32.0 Apr-Nov)	37.8
pH	pH		6.5-9.0	6.0-9.0
Cl	Chloride	mg/L	500	None
Turb	Turbidity	NTU	None	None
Cond	Conductivity	µmhos	None	None
SRI	Solar Radiation Intensity	cal/cm <sup>2</sup> /min	None	None
Alk	Alkalinity (Total)	mg/L	None	None
TKN	Total Kjeldahl Nitrogen	mg/L	None	None
NH <sub>4</sub> -N	Ammonium Nitrogen	mg/L	15.000	None
NH <sub>3</sub> -N	Un-ionized Ammonia	mg/L	0.14 (0.33 Apr-Oct)	0.100
ORG-N	Organic Nitrogen	mg/L	None	None
NO <sub>2</sub>	Nitrite Nitrogen	mg/L	None	None
NO <sub>3</sub>	Nitrate Nitrogen	mg/L	None	None
NO <sub>2</sub> +NO <sub>3</sub>	Nitrite Plus Nitrate Nitrogen	mg/L	None	None
TS	Total Solids	mg/L	None	None
TVS	Total Volatile Solids	mg/L	None	None
TSS	Total Suspended Solids	mg/L	None	None
VSS	Volatile Suspended Solids	mg/L	None	None
ISS	Inorganic Suspended Solids	mg/L	None	None
TDS	Total Dissolved Solids	mg/L	1000	1500
TDVS	Total Dissolved Volatile Solids	mg/L	None	None
TFS	Total Fixed Solids	mg/L	None	None
Phenol	Phenols	µg/L	100.0	300.0
SO <sub>2</sub>	Sulfide	mg/L	None	None
SO <sub>4</sub>	Sulfate	mg/L	500.0	None
FOG	Fats, Oils, and Greases	mg/L	None	15.00
T.P	Total Phosphorus	mg/L	None	None
Sol.P	Soluble Phosphorus	mg/L	None	None
CN	Total Cyanide	mg/L	None	0.100
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.022	None

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1 (Continued)

PARAMETER DIRECTORY FOR WATER QUALITY NETWORK

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
MBAS	Methylene Blue Active Substances	mg/L	None	None
F	Fluoride	mg/L	1.400	15.000
TOC	Total Organic Carbon	mg/L	None	None
TC	Total Coliform	#/100ml	None	None
FC	Fecal Coliform	#/100ml	400	None
EC	Escherichia Coli	#/100ml	None	None
FS	Fecal Streptococcus	#/100ml	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
K	Potassium	mg/L	None	None
Na	Sodium	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
Chlrphl	Chlorophyll A	mg/L	None	None
Rain	Precipitation	inches	None	None
Bzn	Benzene	mg/L	None	None
Ebnzn	Ethylbenzene	mg/L	None	None
Tln	Toluene	mg/L	None	None
Xln	Xylene	mg/L	None	None
Al	Total Aluminum	mg/L	None	None
Sol.Al	Soluble Aluminum	mg/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	$\min(e^{-2.928+1.228 \ln(\text{Hard})}/1000, 0.05)$	0.150
Sol.Cd	Soluble Cadmium	mg/L	None	None
Cu	Total Copper	mg/L	$e^{-1.464+0.942 \ln(\text{Hard})}/1000$	1.000

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1 (Continued)

PARAMETER DIRECTORY FOR WATER QUALITY NETWORK

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Sol.Cu	Soluble Copper	mg/L	None	None
Cr	Total Chromium	mg/L	$e^{3.688+0.819 \cdot \ln(\text{Hard})} / 1000$	1.000
Sol.Cr	Soluble Chromium	mg/L	None	None
Cr <sup>6</sup>	Total Hexavalent Chromium	µg/L	None	None
Sol.Cr <sup>6</sup>	Soluble 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	ug/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
Sb	Total Antimony	mg/L	None	None
Sol.Sb	Soluble Antimony	mg/L	None	None
Be	Total Beryllium	mg/L	None	None
Sol.Be	Soluble Beryllium	mg/L	None	None
Tl	Total Thallium	mg/L	None	None
Sol.Tl	Soluble Thallium	mg/L	None	None
Ti	Total Titenium	mg/L	None	None
Sol.Ti	Soluble Titanium	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, Cal-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	51.0 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, Cal-Sag Channel	Grab	SEC	Calumet
59	Cicero Avenue, Cal-Sag Channel	Grab	SEC	Calumet
60	Crawford Avenue, Cal-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

<u>Sampling Station</u>		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 <sup>1</sup>	Grab	SEC	Des Plaines
94	Empress Casino, Des Plaines River <sup>1</sup>	Grab	SEC	Des Plaines
95	I-55, Des Plaines River <sup>1</sup>	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

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

\*Excluded in 2001 Sampling.

<sup>1</sup>Kept for Special Studies Separately.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-3

DIRECTORY OF SAMPLING LOCATIONS IN 2000 AND 2001

Location No.	Location Sampled in 2000	Location Sampled in 2001
<u>Chicago River System</u>		
30	Lake-Cook Road, West Fork North Branch	Lake-Cook Road, West Fork North Branch
106	Did not exist	Dundee Road, West Fork North Branch Chicago River
103	Did not exist	Golf Road, West Fork North Branch Chicago River
31	Lake-Cook Road, Middle Fork North Branch	Lake-Cook Road, Middle Fork North Branch
104	Did not exist	Glenview Road, North Branch Chicago River
32	Lake-Cook Road, Skokie River	Lake-Cook Road, Skokie River
105	Did not exist	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	Did not exist	Oakton Street, North Shore Channel
36	Touhy Avenue, North Shore Channel	Touhy Avenue, North Shore Channel
101	Did not exist	Poster 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	Did not exist	Wells Street, Chicago River
39	Madison Street, South Branch Chicago River	Madison Street, South Branch Chicago River
108	Did not exist	Loomis Street, South Branch Chicago River
99	Did not exist	Archer Avenue, South Fork South Branch Chicago River
40	Damen Avenue, Chicago Sanitary & Ship Canal	Not Sampled
107	Did not exist	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
82	Lockport Trebler, Chicago Sanitary & Ship Canal	Not Sampled
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	Did not exist	170th Street, Thorn Creek
57	Ashland Avenue, Little Calumet River	Ashland Avenue, Little Calumet River
58	Ashland Avenue, Cal-Sag Channel	Ashland Avenue, Cal-Sag Channel
59	Cicero Avenue, Cal-Sag Channel	Cicero Avenue, Cal-Sag Channel
43	Route 83, Cal-Sag Channel	Route 83, Cal-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	Longmeadow Lane, West Branch Du Page River
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
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 <sup>1</sup>	Jefferson Street, Joliet, Des Plaines River <sup>1</sup>
94	Empress Casino, Des Plaines River <sup>1</sup>	Empress Casino, Des Plaines River <sup>1</sup>
95	I-55, Des Plaines River <sup>1</sup>	I-55, Des Plaines River <sup>1</sup>

<sup>1</sup>Kept 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 2001

Sampling Station No. Name	BOD <sub>5</sub> mg/L	CBOD <sub>5</sub> mg/L	DO mg/L	Temp °C	pH
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	ND	10.75	4.1	7.50
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	9.54	16.9	7.38
103 Golf Road, West Fork North Branch Chicago River	ND	ND	6.98	15.6	7.75
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	6.91	14.2	7.60
104 Glenview Road, North Branch Chicago River	ND	ND	7.36	15.9	7.63
32 Lake-Cook Road, Skokie River	ND	ND	7.65	14.4	7.61
105 Frontage Road, Skokie River	ND	ND	7.49	16.7	7.70
34 Dempster Street, North Branch Chicago River	ND	ND	7.29	14.1	7.62
96 Albany Avenue, North Branch Chicago River	3.30	2.30	7.42	25.3	7.40
35 Central Street, North Shore Channel	1.56	0.22	8.03	25.3	7.77
102 Oakton Street, North Shore Channel	2.30	2.00	5.80	16.8	7.37
36 Touhy Avenue, North Shore Channel	6.90	2.20	7.39	16.9	7.19
101 Foster Avenue, North Shore Channel	4.90	1.30	6.87	17.8	7.14
37 Wilson Avenue, North Branch Chicago River	4.10	1.40	7.13	15.1	7.29
73 Diversey Parkway, North Branch Chicago River	3.80	1.20	6.18	15.3	7.12
46 Grand Avenue, North Branch Chicago River	4.00	0.50	6.00	15.6	7.09
74 Lake Shore Drive, Chicago River	0.80	0.50	7.99	14.0	7.95
100 Wells Street, Chicago River	1.57	0.00	7.27	16.4	7.66
39 Madison Street, South Branch Chicago River	2.50	1.10	6.32	15.0	7.39
108 Loomis Street, South Branch Chicago River	1.89	0.89	5.79	20.0	7.02
99 Archer Avenue, South Fork South Branch Chicago River	4.80	3.50	2.62	18.5	7.03
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	4.60	1.40	5.34	17.8	7.06
75 Cicero Avenue, Chicago Sanitary & Ship Canal	2.20	1.30	5.28	18.1	7.23
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.90	1.30	6.60	17.1	7.19
42 Route 83, Chicago Sanitary & Ship Canal	2.90	1.10	5.46	16.9	7.13
48 Stephen Street, Chicago Sanitary & Ship Canal	1.67	1.00	5.38	16.9	7.23
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	2.82	0.00	5.34	13.3	7.11
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.60	0.60	8.99	13.0	7.47
50 Burnham Avenue, Wolf Lake	0.00	0.00	8.70	14.1	7.76
55 130th Street, Calumet River	0.60	0.50	8.41	15.1	7.41
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4.50	3.50	4.19	15.5	7.39
56 Indiana Avenue, Little Calumet River	2.75	1.38	8.59	17.8	7.79
76 Halsted Street, Little Calumet River	2.90	1.40	6.69	15.0	7.21
52 Wentworth Avenue, Little Calumet River	3.00	1.00	6.20	13.9	7.31
54 Joe Orr Road, Thorn Creek	2.00	2.00	8.27	15.9	7.12
97 170th Street, Thorn Creek	3.50	2.00	7.29	15.5	7.14
57 Ashland Avenue, Little Calumet River	3.33	1.78	5.75	15.7	7.20
58 Ashland Avenue, Cal-Sag Channel	2.50	1.10	6.41	14.7	7.26
59 Cicero Avenue, Cal-Sag Channel	2.30	1.50	5.93	14.5	7.19
43 Route 83, Cal-Sag Channel	2.30	0.70	6.04	14.2	7.16
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	ND	ND	9.52	14.0	7.54
63 Longmeadow Lane, West Branch Du Page River	ND	ND	8.18	11.3	7.43
89 Walnut Lane, West Branch Du Page River	ND	ND	6.82	15.8	7.42
64 Lake Street, West Branch Du Page River	ND	ND	8.25	16.0	7.50
79 Higgins Road, Salt Creek	ND	ND	8.88	16.8	7.50
80 Arlington Heights Road, Salt Creek	ND	ND	8.29	14.5	7.44
18 Devon Avenue, Salt Creek	ND	ND	8.24	14.5	7.57
24 Wolf Road, Salt Creek	ND	ND	8.50	13.8	7.63
21 First Avenue, Salt Creek	ND	ND	7.98	13.5	7.43
77 Elmhurst Road, Higgins Creek	ND	ND	8.42	14.5	7.65
78 Wille Road, Higgins Creek	ND	ND	8.93	15.6	7.72
12 Lake-Cook Road, Buffalo Creek	ND	ND	9.93	13.4	7.70
13 Lake-Cook Road, Des Plaines River	ND	ND	9.02	13.3	7.68
17 Oakton Street, Des Plaines River	ND	ND	9.00	13.5	7.69
19 Belmont Avenue, Des Plaines River	ND	ND	8.59	13.5	7.65
20 Roosevelt Road, Des Plaines River	ND	ND	8.31	13.8	7.59
22 Ogden Avenue, Des Plaines River	ND	ND	9.20	13.9	7.55
23 Willow Springs Road, Des Plaines River	ND	ND	9.44	13.6	7.66
29 Stephen Street, Des Plaines River	ND	ND	9.98	14.2	7.71
91 Material Service Road, Des Plaines River	ND	ND	8.71	16.2	7.40

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

<u>Sampling Station</u>	Cl	Turb	Alk	TKN	NH <sub>4</sub> -N
No. Name	mg/L	NTU	mg/L	mg/L	mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	856	25.5	196	1.32	0.300
106 Dundee Road, West Fork North Branch Chicago River	371	24.6	180	2.16	0.445
103 Golf Road, West Fork North Branch Chicago River	227	18.5	177	1.50	0.277
31 Lake-Cook Road, Middle Fork North Branch	203	22.3	201	1.34	0.139
104 Glenview Road, North Branch Chicago River	177	14.1	189	1.43	0.103
32 Lake-Cook Road, Skokie River	218	15.6	210	1.17	0.190
105 Frontage Road, Skokie River	167	12.9	182	1.36	0.100
34 Dempster Street, North Branch Chicago River	249	18.1	179	1.71	0.336
96 Albany Avenue, North Branch Chicago River	228	13.3	186	1.96	0.477
35 Central Street, North Shore Channel	16	10.3	111	0.63	0.183
102 Oakton Street, North Shore Channel	36	14.4	119	1.10	0.376
36 Touhy Avenue, North Shore Channel	152	6.7	151	2.66	1.063
101 Foster Avenue, North Shore Channel	121	8.7	142	2.70	1.184
37 Wilson Avenue, North Branch Chicago River	192	11.4	156	2.66	1.083
73 Diversey Parkway, North Branch Chicago River	199	11.8	155	2.43	0.863
46 Grand Avenue, North Branch Chicago River	191	12.0	157	2.34	0.968
74 Lake Shore Drive, Chicago River	98	5.9	125	1.01	0.413
100 Wells Street, Chicago River	98	7.9	132	1.08	0.462
39 Madison Street, South Branch Chicago River	179	12.5	147	1.94	0.879
108 Loomis Street, South Branch Chicago River	96	12.6	137	1.60	0.587
99 Archer Avenue, South Fork South Branch Chicago River	117	12.5	157	3.35	1.715
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	138	12.9	139	2.02	0.878
75 Cicero Avenue, Chicago Sanitary & Ship Canal	148	13.6	141	1.92	0.769
41 Harlem Avenue, Chicago Sanitary & Ship Canal	170	8.5	139	1.91	0.754
42 Route 83, Chicago Sanitary & Ship Canal	203	8.0	137	1.94	0.756
48 Stephen Street, Chicago Sanitary & Ship Canal	202	10.4	144	1.87	0.721
82 Lockport Trehler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	187	11.4	148	1.86	0.654
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	59	9.8	112	0.41	0.108
50 Burnham Avenue, Wolf Lake	45	6.6	96	0.62	0.087
55 130th Street, Calumet River	93	10.8	116	0.85	0.214
51 IEB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	180	10.0	165	2.58	0.934
56 Indiana Avenue, Little Calumet River	95	17.9	126	1.05	0.127
76 Halsted Street, Little Calumet River	162	11.1	159	1.58	0.355
52 Wentworth Avenue, Little Calumet River	137	24.7	190	1.73	0.274
54 Joe Orr Road, Thorn Creek	187	10.3	195	1.53	0.110
97 170th Street, Thorn Creek	163	27.5	182	1.58	0.275
57 Ashland Avenue, Little Calumet River	168	26.2	174	1.60	0.248
58 Ashland Avenue, Cal-Sag Channel	167	14.8	163	1.54	0.415
59 Cicero Avenue, Cal-Sag Channel	167	15.2	161	1.66	0.447
43 Route 83, Cal-Sag Channel	179	22.0	161	1.94	0.513
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	229	13.2	207	1.03	0.105
63 Longmeadow Lane, West Branch Du Page River	283	20.3	195	1.88	0.305
89 Walnut Lane, West Branch Du Page River	171	9.0	165	2.30	0.294
64 Lake Street, West Branch Du Page River	198	21.3	162	2.53	0.460
79 Higgins Road, Salt Creek	327	22.5	182	1.49	0.106
80 Arlington Heights Road, Salt Creek	234	9.8	147	1.64	0.192
18 Devon Avenue, Salt Creek	247	11.8	145	1.74	0.228
24 Wolf Road, Salt Creek	268	17.2	159	1.52	0.171
21 First Avenue, Salt Creek	260	18.1	161	1.39	0.160
77 Elmhurst Road, Higgins Creek	479	18.8	168	1.34	0.187
78 Wille Road, Higgins Creek	221	7.3	195	1.85	0.250
12 Lake-Cook Road, Buffalo Creek	302	17.7	210	1.22	0.108
13 Lake-Cook Road, Des Plaines River	158	16.9	210	1.48	0.104
17 Oakton Street, Des Plaines River	182	18.4	201	1.55	0.093
19 Belmont Avenue, Des Plaines River	188	16.7	203	1.66	0.157
20 Roosevelt Road, Des Plaines River	190	16.9	202	1.56	0.140
22 Ogden Avenue, Des Plaines River	205	17.3	190	1.60	0.127
23 Willow Springs Road, Des Plaines River	204	22.9	189	1.69	0.134
29 Stephen Street, Des Plaines River	199	26.0	188	1.87	0.121
91 Material Service Road, Des Plaines River	198	24.7	183	1.63	0.115

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

		Un-ionized				
<u>Sampling Station</u>		NH <sub>3</sub> -N	ORG-N	NO <sub>2</sub> +NO <sub>3</sub>	TS	TSS
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	0.001	1.01	2.60	1941	71.0
106	Dundee Road, West Fork North Branch Chicago River	0.007	1.71	5.14	941	46.8
103	Golf Road, West Fork North Branch Chicago River	0.007	1.22	3.11	741	32.1
31	Lake-Cook Road, Middle Fork North Branch	0.002	1.20	0.37	708	38.8
104	Glenview Road, North Branch Chicago River	0.003	1.33	3.22	631	22.8
32	Lake-Cook Road, Skokie River	0.003	0.98	0.46	737	21.8
105	Frontage Road, Skokie River	0.004	1.26	3.87	811	22.4
34	Dempster Street, North Branch Chicago River	0.003	1.38	2.65	754	25.8
96	Albany Avenue, North Branch Chicago River	0.007	1.48	3.05	674	21.6
35	Central Street, North Shore Channel	0.004	0.44	0.28	230	9.8
102	Oakton Street, North Shore Channel	0.003	0.73	1.27	270	16.6
36	Towhy Avenue, North Shore Channel	0.007	1.60	5.57	542	8.5
101	Foster Avenue, North Shore Channel	0.006	1.52	6.69	473	10.4
37	Wilson Avenue, North Branch Chicago River	0.011	1.57	5.94	616	16.8
73	Diversey Parkway, North Branch Chicago River	0.003	1.57	5.48	642	17.9
46	Grand Avenue, North Branch Chicago River	0.004	1.37	4.86	602	17.6
74	Lake Shore Drive, Chicago River	0.008	0.59	1.93	403	4.8
100	Wells Street, Chicago River	0.010	0.61	2.33	378	10.0
39	Madison Street, South Branch Chicago River	0.008	1.06	3.61	585	16.8
108	Loomis Street, South Branch Chicago River	0.004	1.01	3.45	419	17.9
99	Archer Avenue, South Fork South Branch Chicago River	0.018	1.64	2.55	451	19.8
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	0.006	1.14	3.27	488	19.6
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	1.15	3.54	522	20.8
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	1.16	6.26	584	10.8
42	Route 83, Chicago Sanitary & Ship Canal	0.004	1.18	5.61	636	12.1
48	Stephen Street, Chicago Sanitary & Ship Canal	0.004	1.15	5.27	630	15.2
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.004	1.21	5.31	643	15.5
<u>Calumet River System</u>						
49	Ewing Avenue, Calumet River	0.002	0.30	0.46	302	11.3
50	Burnham Avenue, Wolf Lake	0.003	0.53	0.16	265	7.4
55	130th Street, Calumet River	0.002	0.64	0.67	395	20.7
51	IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.009	1.64	9.06	799	16.9
56	Indiana Avenue, Little Calumet River	0.004	0.92	1.95	414	29.6
76	Halsted Street, Little Calumet River	0.002	1.23	4.80	622	15.4
52	Wentworth Avenue, Little Calumet River	0.003	1.46	3.32	706	53.5
54	Joe Orr Road, Thorn Creek	0.001	1.42	6.81	1230	11.6
97	170th Street, Thorn Creek	0.002	1.30	4.04	861	38.3
57	Ashland Avenue, Little Calumet River	0.002	1.35	3.07	779	39.4
58	Ashland Avenue, Cal-Sag Channel	0.003	1.13	4.57	668	27.7
59	Cicero Avenue, Cal-Sag Channel	0.006	1.22	4.26	656	20.7
43	Route 83, Cal-Sag Channel	0.009	1.43	4.25	674	35.8
<u>Des Plaines River System</u>						
90	Route 19, Poplar Creek	0.001	0.92	0.49	733	18.2
63	Longmeadow Lane, West Branch Du Page River	0.002	1.58	1.32	888	30.3
89	Walnut Lane, West Branch Du Page River	0.004	2.00	7.24	645	18.8
64	Lake Street, West Branch Du Page River	0.006	2.07	6.79	710	42.0
79	Higgins Road, Salt Creek	0.001	1.38	0.28	896	33.9
80	Arlington Heights Road, Salt Creek	0.002	1.45	6.92	743	11.3
18	Devon Avenue, Salt Creek	0.011	1.52	7.22	754	23.1
24	Wolf Road, Salt Creek	0.003	1.35	5.87	783	31.0
21	First Avenue, Salt Creek	0.002	1.23	5.34	810	29.3
77	Elmhurst Road, Higgins Creek	0.004	1.16	0.58	1120	28.2
78	Wille Road, Higgins Creek	0.005	1.60	5.44	785	5.5
12	Lake-Cook Road, Buffalo Creek	0.002	1.11	0.48	860	33.3
13	Lake-Cook Road, Des Plaines River	0.002	1.38	4.94	676	29.8
17	Oakton Street, Des Plaines River	0.002	1.45	4.18	711	29.8
19	Belmont Avenue, Des Plaines River	0.003	1.51	3.87	702	26.3
20	Roosevelt Road, Des Plaines River	0.002	1.42	3.69	703	26.6
22	Ogden Avenue, Des Plaines River	0.002	1.47	3.98	743	27.3
23	Willow Springs Road, Des Plaines River	0.002	1.56	3.85	724	33.2
29	Stephen Street, Des Plaines River	0.002	1.74	3.70	733	44.1
91	Material Service Road, Des Plaines River	0.003	1.51	3.68	712	45.1

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

<u>Sampling Station</u> No. Name	VSS mg/L	TDS mg/L	Phenol µg/L	SO <sub>4</sub> mg/L	FOG mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	12.00	1870	21.0	74.5	ND
106 Dundee Road, West Fork North Branch Chicago River	7.60	894	18.2	67.2	ND
103 Golf Road, West Fork North Branch Chicago River	6.20	709	14.1	61.8	ND
31 Lake-Cook Road, Middle Fork North Branch	6.36	669	16.5	69.0	ND
104 Glenview Road, North Branch Chicago River	5.30	608	11.4	64.8	ND
32 Lake-Cook Road, Skokie River	4.45	715	15.3	70.4	ND
105 Frontage Road, Skokie River	5.60	589	10.3	62.3	ND
34 Dempster Street, North Branch Chicago River	5.67	729	11.7	63.2	ND
96 Albany Avenue, North Branch Chicago River	6.33	652	13.1	65.8	ND
35 Central Street, North Shore Channel	2.22	220	4.6	25.6	ND
102 Oakton Street, North Shore Channel	3.00	254	7.9	28.2	ND
36 Touhy Avenue, North Shore Channel	3.83	534	14.3	79.8	4.79
101 Foster Avenue, North Shore Channel	3.60	463	12.2	49.0	3.96
37 Wilson Avenue, North Branch Chicago River	4.92	600	13.3	57.3	4.56
73 Diversey Parkway, North Branch Chicago River	5.08	624	13.8	58.2	8.94
46 Grand Avenue, North Branch Chicago River	4.25	585	15.0	56.3	3.88
74 Lake Shore Drive, Chicago River	1.42	398	7.3	32.0	ND
100 Wells Street, Chicago River	3.00	368	11.9	36.0	ND
39 Madison Street, South Branch Chicago River	3.33	548	10.9	45.8	4.16
108 Loomis Street, South Branch Chicago River	3.89	401	9.6	43.3	4.79
99 Archer Avenue, South Fork South Branch Chicago River	7.70	431	17.7	51.8	4.03
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	4.40	469	11.8	43.9	3.89
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.00	502	11.7	46.8	4.09
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.17	574	14.8	63.6	4.09
42 Route 83, Chicago Sanitary & Ship Canal	3.17	624	13.4	67.1	5.79
48 Stephen Street, Chicago Sanitary & Ship Canal	3.42	615	12.8	88.9	3.37
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.57	628	10.9	91.1	3.92
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	1.58	290	3.3	28.3	ND
50 Burnham Avenue, Wolf Lake	3.45	258	5.0	38.9	ND
55 130th Street, Calumet River	4.09	374	5.0	63.3	ND
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	5.90	782	8.0	184.3	3.17
56 Indiana Avenue, Little Calumet River	5.38	385	6.0	73.4	3.39
76 Halsted Street, Little Calumet River	4.25	606	11.4	113.3	4.54
52 Wentworth Avenue, Little Calumet River	9.55	653	12.5	122.5	ND
54 Joe Orr Road, Thorn Creek	2.58	1218	10.2	521.3	ND
97 170th Street, Thorn Creek	5.90	822	7.8	255.8	ND
57 Ashland Avenue, Little Calumet River	6.70	739	11.9	161.0	ND
58 Ashland Avenue, Cal-Sag Channel	5.83	641	11.8	110.3	4.20
59 Cicero Avenue, Cal-Sag Channel	4.17	636	13.5	124.3	3.92
43 Route 83, Cal-Sag Channel	6.25	638	11.5	116.6	4.33
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	4.45	715	10.4	63.0	ND
63 Longmeadow Lane, West Branch Du Page River	4.00	858	18.0	83.5	ND
89 Walnut Lane, West Branch Du Page River	4.75	626	17.1	73.5	ND
64 Lake Street, West Branch Du Page River	9.00	668	15.8	77.8	ND
79 Higgins Road, Salt Creek	9.30	862	13.4	89.5	ND
80 Arlington Heights Road, Salt Creek	3.75	732	15.3	84.4	ND
18 Devon Avenue, Salt Creek	5.00	731	16.2	82.4	ND
24 Wolf Road, Salt Creek	5.50	752	12.4	98.7	ND
21 First Avenue, Salt Creek	4.75	780	11.9	94.2	ND
77 Elmhurst Road, Higgins Creek	6.36	1092	14.9	60.9	ND
78 Wille Road, Higgins Creek	2.75	780	19.0	107.8	ND
12 Lake-Cook Road, Buffalo Creek	7.00	827	10.6	98.4	ND
13 Lake-Cook Road, Des Plaines River	6.92	646	11.4	76.8	ND
17 Oakton Street, Des Plaines River	6.17	681	11.5	85.8	ND
19 Belmont Avenue, Des Plaines River	5.83	676	11.8	79.5	ND
20 Roosevelt Road, Des Plaines River	5.75	676	11.3	80.5	ND
22 Ogden Avenue, Des Plaines River	5.92	716	12.5	98.9	ND
23 Willow Springs Road, Des Plaines River	6.75	690	11.5	83.8	ND
29 Stephen Street, Des Plaines River	9.50	689	14.8	82.9	ND
91 Material Service Road, Des Plaines River	8.98	667	9.9	81.2	ND

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

<u>Sampling Station</u>	T.P	Sol.P	Tot-CN	WAD-CN	F
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	0.545	0.340	0.006	0.000	0.240
106 Dundee Road, West Fork North Branch Chicago River	1.102	0.910	0.005	0.001	0.408
103 Golf Road, West Fork North Branch Chicago River	0.663	0.447	0.003	0.001	0.387
31 Lake-Cook Road, Middle Fork North Branch	0.143	0.028	0.001	0.000	0.266
104 Glenview Road, North Branch Chicago River	0.844	0.530	0.003	0.000	0.464
32 Lake-Cook Road, Skokie River	0.150	0.026	0.002	0.000	0.247
105 Frontage Road, Skokie River	0.932	0.632	0.004	0.000	0.500
34 Dempster Street, North Branch Chicago River	0.624	0.418	0.004	0.000	0.378
96 Albany Avenue, North Branch Chicago River	0.717	0.525	0.004	0.000	0.446
35 Central Street, North Shore Channel	0.058	0.053	0.001	0.000	0.138
102 Oakton Street, North Shore Channel	0.221	0.000	0.002	0.001	0.238
36 Touhy Avenue, North Shore Channel	1.259	0.928	0.006	0.001	0.694
101 Foster Avenue, North Shore Channel	1.406	1.168	0.005	0.001	0.722
37 Wilson Avenue, North Branch Chicago River	1.198	0.830	0.005	0.001	0.623
73 Diversey Parkway, North Branch Chicago River	0.889	0.707	0.006	0.001	0.648
46 Grand Avenue, North Branch Chicago River	0.800	0.682	0.005	0.001	0.665
74 Lake Shore Drive, Chicago River	0.291	0.390	0.002	0.001	0.353
100 Wells Street, Chicago River	0.387	0.500	0.002	0.000	0.363
39 Madison Street, South Branch Chicago River	0.611	0.594	0.004	0.001	0.537
108 Loomis Street, South Branch Chicago River	0.573	0.555	0.003	0.001	0.543
99 Archer Avenue, South Fork South Branch Chicago River	0.610	0.490	0.004	0.001	0.595
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.609	0.537	0.004	0.001	0.538
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.671	0.646	0.004	0.001	0.471
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.990	0.618	0.006	0.001	0.632
42 Route 83, Chicago Sanitary & Ship Canal	0.760	0.646	0.006	0.001	0.715
48 Stephen Street, Chicago Sanitary & Ship Canal	1.096	0.970	0.007	0.001	0.752
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.032	0.846	0.006	0.001	0.751
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.081	0.046	0.002	0.001	0.144
50 Burnham Avenue, Wolf Lake	0.070	0.032	0.001	0.000	0.208
55 130th Street, Calumet River	0.127	0.013	0.002	0.000	0.247
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.666	0.155	0.009	0.001	0.783
56 Indiana Avenue, Little Calumet River	0.554	0.090	0.002	0.000	0.375
76 Halsted Street, Little Calumet River	1.386	1.372	0.007	0.001	0.730
52 Wentworth Avenue, Little Calumet River	0.495	0.240	0.009	0.001	4.096
54 Joe Orr Road, Thorn Creek	5.645	5.608	0.005	0.001	0.674
97 170th Street, Thorn Creek	2.296	1.620	0.004	0.001	0.520
57 Ashland Avenue, Little Calumet River	1.537	0.915	0.005	0.001	1.627
58 Ashland Avenue, Cal-Sag Channel	1.442	1.300	0.007	0.001	0.828
59 Cicero Avenue, Cal-Sag Channel	1.511	1.312	0.006	0.001	0.935
43 Route 83, Cal-Sag Channel	1.619	1.046	0.006	0.001	0.805
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.060	0.020	0.002	0.000	0.257
63 Longmeadow Lane, West Branch Du Page River	0.225	0.137	0.004	0.001	0.295
89 Walnut Lane, West Branch Du Page River	2.428	1.970	0.010	0.002	0.721
64 Lake Street, West Branch Du Page River	2.030	1.772	0.008	0.001	0.540
79 Higgins Road, Salt Creek	0.106	0.000	0.002	0.001	0.253
80 Arlington Heights Road, Salt Creek	1.687	1.265	0.008	0.002	0.572
18 Devon Avenue, Salt Creek	1.810	1.287	0.008	0.001	0.558
24 Wolf Road, Salt Creek	1.227	0.987	0.006	0.001	0.522
21 First Avenue, Salt Creek	1.072	0.937	0.005	0.001	0.499
77 Elmhurst Road, Higgins Creek	0.112	0.026	0.003	0.001	0.315
78 Wille Road, Higgins Creek	0.507	0.265	0.007	0.001	0.762
12 Lake-Cook Road, Buffalo Creek	0.075	0.030	0.003	0.001	0.252
13 Lake-Cook Road, Des Plaines River	0.826	0.412	0.005	0.001	0.393
17 Oakton Street, Des Plaines River	0.691	0.352	0.005	0.001	0.367
19 Belmont Avenue, Des Plaines River	0.590	0.315	0.005	0.001	0.435
20 Roosevelt Road, Des Plaines River	0.546	0.313	0.004	0.001	0.464
22 Ogden Avenue, Des Plaines River	0.658	0.443	0.005	0.001	0.408
23 Willow Springs Road, Des Plaines River	0.618	0.443	0.004	0.001	0.420
29 Stephen Street, Des Plaines River	0.672	0.488	0.004	0.001	0.386
91 Material Service Road, Des Plaines River	0.679	0.380	0.004	0.001	0.377

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

Sampling Station No. Name	TOC mg/L	FC* #/100ml	EC #/100ml	Ca mg/L	Sol. Ca mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	7.50	2683	ND	106.6	ND
106 Dundee Road, West Fork North Branch Chicago River	12.60	1782	1445	79.8	70.3
103 Golf Road, West Fork North Branch Chicago River	8.40	854	573	71.0	66.1
31 Lake-Cook Road, Middle Fork North Branch	9.73	767	517	74.2	65.6
104 Glenview Road, North Branch Chicago River	8.10	1112	730	68.8	63.0
32 Lake-Cook Road, Skokie River	9.36	1750	1473	79.4	73.8
105 Frontage Road, Skokie River	7.60	490	4427	66.2	61.8
34 Dempster Street, North Branch Chicago River	7.83	1377	1165	70.6	61.1
96 Albany Avenue, North Branch Chicago River	8.33	2517	20650	72.8	63.3
35 Central Street, North Shore Channel	3.33	356	548	37.7	34.7
102 Oakton Street, North Shore Channel	4.20	580	360	42.6	39.7
36 Touhy Avenue, North Shore Channel	8.00	4211	5337	61.8	52.7
101 Foster Avenue, North Shore Channel	7.60	8703	8900	57.6	53.5
37 Wilson Avenue, North Branch Chicago River	7.75	5958	3400	63.9	55.6
73 Diversy Parkway, North Branch Chicago River	7.92	3832	2650	65.3	56.4
46 Grand Avenue, North Branch Chicago River	7.83	1840	1315	64.3	56.5
74 Lake Shore Drive, Chicago River	4.58	66	53	46.1	41.4
100 Wells Street, Chicago River	4.71	159	260	49.4	46.4
39 Madison Street, South Branch Chicago River	6.67	1622	610	58.4	48.9
108 Loomis Street, South Branch Chicago River	6.22	325	250	51.5	48.6
99 Archer Avenue, South Fork South Branch Chicago River	8.50	1530	1760	58.0	48.6
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	6.90	393	80	56.1	47.9
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.58	303	70	55.7	48.9
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.25	4126	3900	59.6	50.7
42 Route 83, Chicago Sanitary & Ship Canal	7.67	1580	3050	59.8	51.6
48 Stephen Street, Chicago Sanitary & Ship Canal	7.92	812	1420	63.4	56.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.59	291	95	63.8	57.0
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	3.25	20	10	40.2	35.4
50 Burnham Avenue, Wolf Lake	5.18	32	10	34.5	28.4
55 130th Street, Calumet River	4.73	82	10	48.8	43.0
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	9.90	2056	220	85.6	69.2
56 Indiana Avenue, Little Calumet River	5.75	364	670	52.5	48.5
76 Halsted Street, Little Calumet River	7.50	2550	3350	71.1	63.1
52 Wentworth Avenue, Little Calumet River	10.18	2211	4400	82.8	70.1
54 Joe Orr Road, Thorn Creek	9.08	1083	1880	85.5	74.1
97 170th Street, Thorn Creek	9.10	1197	4405	88.6	74.7
57 Ashland Avenue, Little Calumet River	9.10	1623	1870	79.0	67.7
58 Ashland Avenue, Cal-Sag Channel	8.25	3095	3550	76.2	62.9
59 Cicero Avenue, Cal-Sag Channel	8.17	1057	577	72.7	62.6
43 Route 83, Cal-Sag Channel	8.25	298	850	72.5	64.0
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	8.82	129	395	78.0	66.9
63 Longmeadow Lane, West Branch Du Page River	12.75	1075	2070	99.6	84.6
89 Walnut Lane, West Branch Du Page River	11.17	1273	754	67.8	58.8
64 Lake Street, West Branch Du Page River	10.64	1739	1840	69.3	62.1
79 Higgins Road, Salt Creek	9.20	49	122	79.3	72.1
80 Arlington Heights Road, Salt Creek	9.83	426	1027	69.2	60.0
18 Devon Avenue, Salt Creek	9.42	1140	3950	68.9	61.8
24 Wolf Road, Salt Creek	8.33	507	54	75.3	66.2
21 First Avenue, Salt Creek	8.50	599	375	80.7	66.1
77 Elmhurst Road, Higgins Creek	10.09	598	5916	79.6	64.0
78 Wille Road, Higgins Creek	9.92	256	440	80.9	76.1
12 Lake-Cook Road, Buffalo Creek	9.55	287	50	81.7	73.3
13 Lake-Cook Road, Des Plaines River	8.67	269	167	76.5	68.8
17 Oakton Street, Des Plaines River	8.83	492	203	81.1	69.1
19 Belmont Avenue, Des Plaines River	8.92	440	233	77.9	67.8
20 Roosevelt Road, Des Plaines River	8.75	422	507	75.4	68.1
22 Ogden Avenue, Des Plaines River	8.50	519	653	75.4	66.2
23 Willow Springs Road, Des Plaines River	9.67	232	267	75.5	66.6
29 Stephen Street, Des Plaines River	9.25	275	310	76.6	67.3
91 Material Service Road, Des Plaines River	8.63	367	913	73.0	64.6

ND = No Data  
Geometric Mean

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

<u>Sampling Station</u>	Mg	Sol.Mg	Hard	Alpha	Beta
No. Name	mg/L	mg/L	mg/L	pCi/L	pCi/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	46.1	ND	456	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	37.7	34.0	354	4.76	11.92
103 Golf Road, West Fork North Branch Chicago River	31.6	30.8	307	4.67	7.77
31 Lake-Cook Road, Middle Fork North Branch	33.9	30.8	325	6.05	7.80
104 Glenview Road, North Branch Chicago River	31.3	29.4	301	4.57	7.59
32 Lake-Cook Road, Skokie River	35.4	31.5	344	4.86	6.56
105 Frontage Road, Skokie River	30.5	28.8	291	4.53	7.77
34 Dempster Street, North Branch Chicago River	31.8	27.2	307	4.88	7.41
96 Albany Avenue, North Branch Chicago River	31.4	28.8	311	4.71	7.24
35 Central Street, North Shore Channel	12.2	11.3	144	3.45	4.44
102 Oakton Street, North Shore Channel	14.4	14.6	166	4.03	5.43
36 Touhy Avenue, North Shore Channel	23.2	19.8	250	4.29	7.12
101 Foster Avenue, North Shore Channel	21.3	20.1	231	ND	ND
37 Wilson Avenue, North Branch Chicago River	25.1	21.7	263	ND	ND
73 Diversey Parkway, North Branch Chicago River	25.6	22.0	268	ND	ND
46 Grand Avenue, North Branch Chicago River	24.8	21.9	263	ND	ND
74 Lake Shore Drive, Chicago River	16.1	14.3	182	4.01	5.82
100 Wells Street, Chicago River	18.0	17.1	198	4.25	7.03
39 Madison Street, South Branch Chicago River	22.2	18.4	237	ND	ND
108 Loomis Street, South Branch Chicago River	19.0	17.9	207	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	21.7	17.9	234	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	21.2	18.1	228	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	21.3	18.3	227	4.32	8.01
41 Harlem Avenue, Chicago Sanitary & Ship Canal	23.1	19.2	244	4.49	8.32
42 Route 83, Chicago Sanitary & Ship Canal	23.0	19.8	244	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	24.6	21.7	260	ND	ND
82 Lockport Treblier, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	24.9	22.3	262	4.50	7.93
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	13.1	11.4	154	3.79	4.92
50 Burnham Avenue, Wolf Lake	12.6	11.2	138	3.44	4.89
55 130th Street, Calumet River	16.8	15.0	191	3.76	6.36
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	57.1	49.4	449	ND	ND
56 Indiana Avenue, Little Calumet River	20.1	19.1	214	4.25	8.20
76 Halsted Street, Little Calumet River	26.5	23.4	287	4.34	7.44
52 Wentworth Avenue, Little Calumet River	33.6	29.5	345	4.43	9.42
54 Joe Orr Road, Thorn Creek	39.3	35.2	375	5.73	7.95
97 170th Street, Thorn Creek	41.3	36.5	391	4.99	8.40
57 Ashland Avenue, Little Calumet River	35.1	30.7	342	4.61	8.89
58 Ashland Avenue, Cal-Sag Channel	28.3	23.9	307	ND	ND
59 Cicero Avenue, Cal-Sag Channel	27.7	24.0	296	ND	ND
43 Route 83, Cal-Sag Channel	27.8	24.9	295	ND	ND
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	36.7	32.3	346	5.63	5.91
63 Longmeadow Lane, West Branch Du Page River	41.5	34.8	419	5.23	7.02
89 Walnut Lane, West Branch Du Page River	26.8	23.7	280	4.53	9.50
64 Lake Street, West Branch Du Page River	27.8	24.5	287	4.91	10.14
79 Higgins Road, Salt Creek	36.7	34.0	349	5.54	7.05
80 Arlington Heights Road, Salt Creek	28.6	24.5	290	5.07	9.32
18 Devon Avenue, Salt Creek	28.5	25.3	289	5.06	8.27
24 Wolf Road, Salt Creek	32.5	29.1	322	4.45	9.13
21 First Avenue, Salt Creek	34.6	28.7	344	4.98	9.41
77 Elmhurst Road, Higgins Creek	32.5	26.3	332	5.82	7.32
78 Wille Road, Higgins Creek	32.6	30.4	336	5.44	15.72
12 Lake-Cook Road, Buffalo Creek	38.3	34.8	362	4.98	6.44
13 Lake-Cook Road, Des Plaines River	36.1	32.5	340	5.26	8.21
17 Oakton Street, Des Plaines River	37.7	33.0	358	5.26	7.81
19 Belmont Avenue, Des Plaines River	35.8	31.4	342	4.69	8.37
20 Roosevelt Road, Des Plaines River	35.0	31.8	333	4.80	7.89
22 Ogden Avenue, Des Plaines River	33.8	30.2	327	4.83	7.92
23 Willow Springs Road, Des Plaines River	34.4	30.7	330	4.85	8.78
29 Stephen Street, Des Plaines River	35.7	30.5	338	4.86	8.36
91 Material Service Road, Des Plaines River	32.8	29.3	317	5.12	8.77

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

<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	0.000	ND	0.010	ND	0.089
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	0.000	0.004	0.072
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.005	0.004	0.052
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.006	0.002	0.054
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.008	0.001	0.039
32 Lake-Cook Road, Skokie River	0.000	0.000	0.007	0.002	0.053
105 Frontage Road, Skokie River	0.001	0.000	0.009	0.002	0.036
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.003	0.001	0.047
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.005	0.003	0.043
35 Central Street, North Shore Channel	0.001	0.000	0.006	0.003	0.026
102 Oakton Street, North Shore Channel	0.001	0.000	0.010	0.002	0.027
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.005	0.003	0.027
101 Foster Avenue, North Shore Channel	0.001	0.000	0.005	0.004	0.024
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.010	0.002	0.031
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.005	0.003	0.033
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.004	0.003	0.031
74 Lake Shore Drive, Chicago River	0.001	0.001	0.004	0.006	0.026
100 Wells Street, Chicago River	0.000	0.000	0.000	0.004	0.028
39 Madison Street, South Branch Chicago River	0.001	0.000	0.007	0.002	0.031
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.007	0.003	0.029
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.006	0.005	0.036
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.004	0.000	0.033
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.004	0.004	0.031
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.006	0.000	0.026
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.003	0.025
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.006	0.002	0.027
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.004	0.002	0.028
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.001	0.000	0.007	0.001	0.030
50 Burnham Avenue, Wolf Lake	0.002	0.000	0.007	0.002	0.031
55 130th Street, Calumet River	0.001	0.000	0.005	0.001	0.040
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.002	0.000	0.002	0.000	0.030
56 Indiana Avenue, Little Calumet River	0.002	0.001	0.004	0.000	0.035
76 Halsted Street, Little Calumet River	0.001	0.000	0.005	0.002	0.030
52 Wentworth Avenue, Little Calumet River	0.001	0.000	0.004	0.000	0.047
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.006	0.001	0.032
97 170th Street, Thorn Creek	0.001	0.000	0.005	0.002	0.043
57 Ashland Avenue, Little Calumet River	0.001	0.000	0.007	0.004	0.044
58 Ashland Avenue, Cal-Sag Channel	0.003	0.000	0.006	0.000	0.030
59 Cicero Avenue, Cal-Sag Channel	0.002	0.001	0.005	0.001	0.035
43 Route 83, Cal-Sag Channel	0.001	0.000	0.006	0.001	0.034
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.001	0.000	0.005	0.003	0.067
63 Longmeadow Lane, West Branch Du Page River	0.002	0.000	0.005	0.000	0.072
89 Walnut Lane, West Branch Du Page River	0.001	0.000	0.006	0.001	0.035
64 Lake Street, West Branch Du Page River	0.001	0.000	0.005	0.001	0.042
79 Higgins Road, Salt Creek	0.001	0.000	0.007	0.003	0.061
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.003	0.002	0.035
18 Devon Avenue, Salt Creek	0.001	0.001	0.006	0.002	0.035
24 Wolf Road, Salt Creek	0.001	0.000	0.000	0.001	0.042
21 First Avenue, Salt Creek	0.001	0.000	0.003	0.005	0.048
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.004	0.004	0.072
78 Wille Road, Higgins Creek	0.001	0.001	0.002	0.002	0.032
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.005	0.002	0.056
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.002	0.006	0.044
17 Oakton Street, Des Plaines River	0.001	0.000	0.007	0.000	0.047
19 Belmont Avenue, Des Plaines River	0.001	0.000	0.003	0.003	0.045
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.003	0.005	0.043
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.006	0.000	0.045
23 Willow Springs Road, Des Plaines River	0.001	0.000	0.002	0.003	0.045
29 Stephen Street, Des Plaines River	0.001	0.001	0.002	0.001	0.045
91 Material Service Road, Des Plaines River	0.001	0.001	0.004	0.003	0.044

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

Sampling Station No. Name	Sol.Ba mg/L	B mg/L	Sol.B mg/L	Cd mg/L	Sol.Cd mg/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	0.170	ND	0.002	ND
106 Dundee Road, West Fork North Branch Chicago River	0.053	0.186	0.158	0.001	0.001
103 Golf Road, West Fork North Branch Chicago River	0.040	0.151	0.139	0.001	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.040	0.104	0.093	0.004	0.000
104 Glenview Road, North Branch Chicago River	0.030	0.156	0.143	0.001	0.001
32 Lake-Cook Road, Skokie River	0.040	0.122	0.098	0.001	0.001
105 Frontage Road, Skokie River	0.029	0.166	0.147	0.001	0.001
34 Dempster Street, North Branch Chicago River	0.033	0.132	0.111	0.001	0.000
96 Albany Avenue, North Branch Chicago River	0.033	0.157	0.129	0.001	0.000
35 Central Street, North Shore Channel	0.021	0.030	0.023	0.001	0.000
102 Oakton Street, North Shore Channel	0.021	0.058	0.060	0.001	0.000
36 Touhy Avenue, North Shore Channel	0.019	0.211	0.196	0.001	0.000
101 Foster Avenue, North Shore Channel	0.018	0.201	0.186	0.001	0.000
37 Wilson Avenue, North Branch Chicago River	0.021	0.183	0.169	0.001	0.000
73 Diversely Parkway, North Branch Chicago River	0.022	0.173	0.160	0.001	0.000
46 Grand Avenue, North Branch Chicago River	0.021	0.178	0.168	0.001	0.000
74 Lake Shore Drive, Chicago River	0.021	0.082	0.064	0.000	0.000
100 Wells Street, Chicago River	0.022	0.091	0.081	0.000	0.000
39 Madison Street, South Branch Chicago River	0.021	0.135	0.117	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.021	0.128	0.119	0.001	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.148	0.121	0.001	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.020	0.129	0.115	0.000	0.000
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.143	0.119	0.001	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.190	0.163	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.206	0.189	0.001	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.019	0.219	0.205	0.001	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.019	0.209	0.187	0.001	0.000
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.022	0.045	0.037	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.025	0.100	0.097	0.000	0.000
55 130th Street, Calumet River	0.031	0.146	0.124	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.016	0.370	0.327	0.001	0.000
56 Indiana Avenue, Little Calumet River	0.028	0.152	0.143	0.002	0.000
76 Halsted Street, Little Calumet River	0.022	0.228	0.194	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.031	0.209	0.185	0.001	0.000
54 Joe Orr Road, Thorn Creek	0.024	0.351	0.324	0.001	0.001
97 170th Street, Thorn Creek	0.028	0.254	0.228	0.001	0.001
57 Ashland Avenue, Little Calumet River	0.028	0.212	0.198	0.000	0.000
58 Ashland Avenue, Cal-Sag Channel	0.021	0.232	0.203	0.001	0.000
59 Cicero Avenue, Cal-Sag Channel	0.021	0.228	0.194	0.000	0.000
43 Route 83, Cal-Sag Channel	0.022	0.215	0.195	0.000	0.000
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.055	0.063	0.047	0.001	0.000
63 Longmeadow Lane, West Branch Du Page River	0.058	0.083	0.068	0.001	0.001
89 Walnut Lane, West Branch Du Page River	0.024	0.296	0.296	0.001	0.000
64 Lake Street, West Branch Du Page River	0.029	0.243	0.221	0.001	0.000
79 Higgins Road, Salt Creek	0.048	0.099	0.090	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.025	0.222	0.217	0.001	0.000
18 Devon Avenue, Salt Creek	0.027	0.211	0.208	0.001	0.000
24 Wolf Road, Salt Creek	0.031	0.184	0.182	0.001	0.000
21 First Avenue, Salt Creek	0.032	0.196	0.182	0.001	0.001
77 Elmhurst Road, Higgins Creek	0.056	0.116	0.103	0.001	0.000
78 Wille Road, Higgins Creek	0.024	0.377	0.384	0.001	0.000
12 Lake-Cook Road, Buffalo Creek	0.045	0.095	0.086	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.033	0.167	0.159	0.001	0.000
17 Oakton Steet, Des Plaines River	0.035	0.158	0.151	0.001	0.000
19 Belmont Avenue, Des Plaines River	0.033	0.178	0.169	0.001	0.000
20 Roosevelt Road, Des Plaines River	0.034	0.169	0.164	0.001	0.001
22 Ogden Avenue, Des Plaines River	0.033	0.169	0.161	0.001	0.000
23 Willow Springs Road, Des Plaines River	0.033	0.172	0.161	0.001	0.000
29 Stephen Street, Des Plaines River	0.032	0.172	0.154	0.001	0.000
91 Material Service Road, Des Plaines River	0.031	0.165	0.155	0.001	0.000

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

<u>Sampling Station</u>	Cu	Sol.Cu	Cr	Sol.Cr	Cr <sup>+6</sup>
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	0.030	ND	0.004	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.027	0.010	0.005	0.003	0.000
103 Golf Road, West Fork North Branch Chicago River	0.021	0.007	0.006	0.002	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.022	0.004	0.004	0.001	0.000
104 Glenview Road, North Branch Chicago River	0.018	0.004	0.003	0.000	0.000
32 Lake-Cook Road, Skokie River	0.020	0.005	0.005	0.002	0.000
105 Frontage Road, Skokie River	0.017	0.003	0.001	0.001	0.000
34 Dempster Street, North Branch Chicago River	0.020	0.004	0.003	0.002	0.000
96 Albany Avenue, North Branch Chicago River	0.021	0.004	0.004	0.000	0.000
35 Central Street, North Shore Channel	0.016	0.003	0.003	0.001	0.000
102 Oakton Street, North Shore Channel	0.016	0.002	0.004	0.001	0.000
36 Touhy Avenue, North Shore Channel	0.018	0.004	0.002	0.000	0.000
101 Foster Avenue, North Shore Channel	0.014	0.003	0.001	0.001	0.000
37 Wilson Avenue, North Branch Chicago River	0.019	0.002	0.003	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.021	0.003	0.004	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.017	0.002	0.002	0.000	0.000
74 Lake Shore Drive, Chicago River	0.014	0.003	0.002	0.000	0.000
100 Wells Street, Chicago River	0.015	0.003	0.005	0.002	0.000
39 Madison Street, South Branch Chicago River	0.016	0.004	0.003	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.017	0.003	0.003	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.014	0.004	0.000	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.027	0.005	0.004	0.001	0.000
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.005	0.003	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.014	0.004	0.005	0.002	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.003	0.002	0.001	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.015	0.004	0.004	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.016	0.003	0.004	0.002	0.000
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.014	0.002	0.002	0.001	0.000
50 Burnham Avenue, Wolf Lake	0.018	0.001	0.002	0.001	0.000
55 130th Street, Calumet River	0.017	0.003	0.000	0.001	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.022	0.002	0.005	0.005	0.000
56 Indiana Avenue, Little Calumet River	0.014	0.002	0.002	0.001	0.000
76 Halsted Street, Little Calumet River	0.017	0.003	0.004	0.002	0.000
52 Wentworth Avenue, Little Calumet River	0.019	0.003	0.003	0.001	0.000
54 Joe Orr Road, Thorn Creek	0.017	0.003	0.002	0.001	0.000
97 170th Street, Thorn Creek	0.018	0.004	0.008	0.003	0.000
57 Ashland Avenue, Little Calumet River	0.021	0.003	0.003	0.003	0.000
58 Ashland Avenue, Cal-Sag Channel	0.017	0.002	0.003	0.001	0.000
59 Cicero Avenue, Cal-Sag Channel	0.018	0.003	0.005	0.003	0.000
43 Route 83, Cal-Sag Channel	0.019	0.002	0.004	0.001	0.000
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.014	0.003	0.005	0.002	0.000
63 Longmeadow Lane, West Branch Du Page River	0.019	0.002	0.009	0.002	0.000
89 Walnut Lane, West Branch Du Page River	0.020	0.007	0.004	0.001	0.000
64 Lake Street, West Branch Du Page River	0.019	0.006	0.005	0.002	0.000
79 Higgins Road, Salt Creek	0.014	0.004	0.005	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.021	0.008	0.005	0.001	0.000
18 Devon Avenue, Salt Creek	0.016	0.005	0.002	0.001	0.000
24 Wolf Road, Salt Creek	0.018	0.004	0.005	0.002	0.000
21 First Avenue, Salt Creek	0.022	0.006	0.006	0.001	0.000
77 Elmhurst Road, Higgins Creek	0.017	0.003	0.001	0.000	0.000
78 Wille Road, Higgins Creek	0.015	0.005	0.004	0.001	0.000
12 Lake-Cook Road, Buffalo Creek	0.014	0.003	0.002	0.001	0.000
13 Lake-Cook Road, Des Plaines River	0.015	0.005	0.003	0.002	0.000
17 Oakton Street, Des Plaines River	0.014	0.004	0.005	0.002	0.000
19 Belmont Avenue, Des Plaines River	0.017	0.004	0.005	0.003	0.000
20 Roosevelt Road, Des Plaines River	0.015	0.004	0.005	0.001	0.000
22 Ogden Avenue, Des Plaines River	0.019	0.006	0.005	0.002	0.000
23 Willow Springs Road, Des Plaines River	0.017	0.004	0.005	0.001	0.000
29 Stephen Street, Des Plaines River	0.017	0.005	0.005	0.002	0.000
91 Material Service Road, Des Plaines River	0.019	0.004	0.005	0.002	0.000

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

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	1.795	0.120	0.000	ND	0.005
106 Dundee Road, West Fork North Branch Chicago River	1.349	0.099	0.000	0.000	0.006
103 Golf Road, West Fork North Branch Chicago River	0.953	0.090	0.010	0.000	0.004
31 Lake-Cook Road, Middle Fork North Branch	1.443	0.120	0.006	0.001	0.006
104 Glenview Road, North Branch Chicago River	0.707	0.097	0.002	0.000	0.003
32 Lake-Cook Road, Skokie River	1.040	0.115	0.001	0.000	0.006
105 Frontage Road, Skokie River	0.528	0.097	0.000	0.000	0.003
34 Dempster Street, North Branch Chicago River	0.957	0.083	0.002	0.000	0.004
96 Albany Avenue, North Branch Chicago River	0.666	0.086	0.004	0.001	0.003
35 Central Street, North Shore Channel	0.357	0.042	0.006	0.000	0.003
102 Oakton Street, North Shore Channel	0.560	0.053	0.005	0.001	0.004
36 Touhy Avenue, North Shore Channel	0.284	0.070	0.005	0.000	0.006
101 Foster Avenue, North Shore Channel	0.295	0.076	0.000	0.002	0.007
37 Wilson Avenue, North Branch Chicago River	0.450	0.084	0.000	0.001	0.007
73 Diversey Parkway, North Branch Chicago River	0.538	0.079	0.027	0.000	0.008
46 Grand Avenue, North Branch Chicago River	0.531	0.081	0.006	0.000	0.007
74 Lake Shore Drive, Chicago River	0.219	0.047	0.000	0.002	0.007
100 Wells Street, Chicago River	0.347	0.053	0.000	0.000	0.011
39 Madison Street, South Branch Chicago River	0.549	0.076	0.000	0.000	0.008
108 Loomis Street, South Branch Chicago River	0.481	0.079	0.000	0.000	0.004
99 Archer Avenue, South Fork South Branch Chicago River	0.822	0.112	0.007	0.000	0.005
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.717	0.065	0.004	0.000	0.005
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.621	0.073	0.000	0.000	0.005
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.331	0.106	0.002	0.001	0.005
42 Route 83, Chicago Sanitary & Ship Canal	0.324	0.074	0.000	0.000	0.006
48 Stephen Street, Chicago Sanitary & Ship Canal	0.466	0.078	0.000	0.000	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.493	0.079	0.002	0.000	0.005
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.429	0.032	0.000	0.000	0.003
50 Burnham Avenue, Wolf Lake	0.203	0.035	0.000	0.000	0.001
55 130th Street, Calumet River	0.437	0.044	0.002	0.002	0.004
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.111	0.142	0.000	0.000	0.006
56 Indiana Avenue, Little Calumet River	0.633	0.057	0.002	0.000	0.002
76 Halsted Street, Little Calumet River	0.511	0.082	0.000	0.000	0.003
52 Wentworth Avenue, Little Calumet River	1.504	0.120	0.005	0.001	0.004
54 Joe Orr Road, Thorn Creek	0.594	0.116	0.002	0.000	0.002
97 170th Street, Thorn Creek	1.623	0.121	0.000	0.000	0.005
57 Ashland Avenue, Little Calumet River	1.435	0.104	0.000	0.001	0.005
58 Ashland Avenue, Cal-Sag Channel	0.639	0.087	0.002	0.000	0.004
59 Cicero Avenue, Cal-Sag Channel	0.764	0.087	0.001	0.000	0.004
43 Route 83, Cal-Sag Channel	0.947	0.087	0.068	0.000	0.005
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.840	0.109	0.000	0.000	0.002
63 Longmeadow Lane, West Branch Du Page River	1.256	0.185	0.000	0.000	0.004
89 Walnut Lane, West Branch Du Page River	0.477	0.096	0.000	0.000	0.002
64 Lake Street, West Branch Du Page River	1.062	0.085	0.000	0.000	0.003
79 Higgins Road, Salt Creek	1.119	0.095	0.052	0.000	0.004
80 Arlington Heights Road, Salt Creek	0.511	0.107	0.000	0.000	0.003
18 Devon Avenue, Salt Creek	0.660	0.111	0.000	0.000	0.002
24 Wolf Road, Salt Creek	0.859	0.094	0.005	0.000	0.004
21 First Avenue, Salt Creek	1.204	0.095	0.005	0.000	0.009
77 Elmhurst Road, Higgins Creek	1.127	0.098	0.000	0.000	0.004
78 Wille Road, Higgins Creek	0.334	0.108	0.002	0.000	0.008
12 Lake-Cook Road, Buffalo Creek	0.949	0.109	0.001	0.000	0.003
13 Lake-Cook Road, Des Plaines River	0.992	0.100	0.027	0.000	0.003
17 Oakton Street, Des Plaines River	1.024	0.112	0.002	0.000	0.003
19 Belmont Avenue, Des Plaines River	0.887	0.098	0.000	0.000	0.003
20 Roosevelt Road, Des Plaines River	0.760	0.096	0.002	0.000	0.003
22 Ogden Avenue, Des Plaines River	0.869	0.105	0.002	0.000	0.004
23 Willow Springs Road, Des Plaines River	1.007	0.098	0.000	0.000	0.004
29 Stephen Street, Des Plaines River	1.195	0.110	0.002	0.000	0.003
91 Material Service Road, Des Plaines River	1.216	0.094	0.007	0.000	0.004

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

Sampling Station No. Name	Sol.Ni mg/L	Mn mg/L	Sol.Mn mg/L	Hg µg/L	Sol.Hg ug/L
<u>Chicago River System</u>					
30 Lake-Cook Road, West Fork North Branch	ND	0.122	ND	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.110	0.057	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.098	0.040	0.013	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.107	0.050	0.007	0.000
104 Glenview Road, North Branch Chicago River	0.001	0.078	0.028	0.006	0.000
32 Lake-Cook Road, Skokie River	0.001	0.131	0.073	0.005	0.000
105 Frontage Road, Skokie River	0.002	0.057	0.027	0.010	0.000
34 Dempster Street, North Branch Chicago River	0.001	0.098	0.037	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.068	0.030	0.013	0.000
35 Central Street, North Shore Channel	0.001	0.037	0.013	0.006	0.000
102 Oakton Street, North Shore Channel	0.003	0.036	0.022	0.017	0.000
36 Touhy Avenue, North Shore Channel	0.004	0.038	0.023	0.028	0.000
101 Foster Avenue, North Shore Channel	0.005	0.020	0.010	0.013	0.000
37 Wilson Avenue, North Branch Chicago River	0.004	0.047	0.019	0.018	0.000
73 Diverssey Parkway, North Branch Chicago River	0.004	0.053	0.029	0.013	0.000
46 Grand Avenue, North Branch Chicago River	0.004	0.042	0.026	0.000	ND
74 Lake Shore Drive, Chicago River	0.004	0.020	0.010	0.000	ND
100 Wells Street, Chicago River	0.008	0.027	0.015	0.006	0.000
39 Madison Street, South Branch Chicago River	0.006	0.037	0.019	0.000	ND
108 Loomis Street, South Branch Chicago River	0.003	0.050	0.022	0.019	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.003	0.062	0.042	0.039	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.003	0.070	0.031	0.014	0.000
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.045	0.018	0.003	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.030	0.015	0.016	0.017
42 Route 83, Chicago Sanitary & Ship Canal	0.004	0.029	0.022	0.005	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.050	0.028	0.000	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.045	0.027	0.013	0.016
<u>Calumet River System</u>					
49 Ewing Avenue, Calumet River	0.001	0.030	0.007	0.004	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.043	0.004	0.009	0.000
55 130th Street, Calumet River	0.002	0.046	0.007	0.014	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.003	0.093	0.057	0.032	0.000
56 Indiana Avenue, Little Calumet River	0.001	0.041	0.009	0.021	0.000
76 Halsted Street, Little Calumet River	0.001	0.068	0.040	0.003	0.000
52 Wentworth Avenue, Little Calumet River	0.002	0.145	0.089	0.024	0.000
54 Joe Orr Road, Thorn Creek	0.001	0.070	0.038	0.004	0.000
97 170th Street, Thorn Creek	0.002	0.100	0.043	0.032	0.000
57 Ashland Avenue, Little Calumet River	0.001	0.126	0.058	0.020	0.000
58 Ashland Avenue, Cal-Sag Channel	0.001	0.071	0.039	0.008	0.000
59 Cicero Avenue, Cal-Sag Channel	0.002	0.078	0.044	0.013	0.000
43 Route 83, Cal-Sag Channel	0.001	0.076	0.043	0.018	0.000
<u>Des Plaines River System</u>					
90 Route 19, Poplar Creek	0.001	0.107	0.063	0.027	0.080
63 Longmeadow Lane, West Branch Du Page River	0.001	0.151	0.093	0.000	ND
89 Walnut Lane, West Branch Du Page River	0.001	0.074	0.046	0.009	0.025
64 Lake Street, West Branch Du Page River	0.002	0.092	0.040	0.009	0.020
79 Higgins Road, Salt Creek	0.002	0.124	0.041	0.005	0.000
80 Arlington Heights Road, Salt Creek	0.003	0.051	0.021	0.009	ND
18 Devon Avenue, Salt Creek	0.002	0.055	0.027	0.012	0.020
24 Wolf Road, Salt Creek	0.003	0.077	0.034	0.014	0.000
21 First Avenue, Salt Creek	0.004	0.101	0.035	0.009	0.020
77 Elmhurst Road, Higgins Creek	0.002	0.163	0.099	0.015	0.040
78 Wille Road, Higgins Creek	0.008	0.038	0.018	0.017	0.033
12 Lake-Cook Road, Buffalo Creek	0.002	0.116	0.048	0.010	0.000
13 Lake-Cook Road, Des Plaines River	0.001	0.090	0.024	0.016	0.030
17 Oakton Street, Des Plaines River	0.002	0.102	0.021	0.019	0.017
19 Belmont Avenue, Des Plaines River	0.002	0.090	0.032	0.000	ND
20 Roosevelt Road, Des Plaines River	0.002	0.077	0.025	0.011	0.000
22 Ogden Avenue, Des Plaines River	0.003	0.075	0.021	0.017	0.025
23 Willow Springs Road, Des Plaines River	0.002	0.083	0.021	0.033	0.015
29 Stephen Street, Des Plaines River	0.002	0.086	0.018	0.029	0.010
91 Material Service Road, Des Plaines River	0.002	0.097	0.015	0.016	0.010

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS 2001

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	0.070	ND	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.091	0.035	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	0.047	0.011	0.006	0.002
31 Lake-Cook Road, Middle Fork North Branch	0.056	0.005	0.005	0.002
104 Glenview Road, North Branch Chicago River	0.039	0.014	0.000	0.002
32 Lake-Cook Road, Skokie River	0.049	0.007	0.002	0.000
105 Frontage Road, Skokie River	0.038	0.012	0.002	0.000
34 Dempster Street, North Branch Chicago River	0.040	0.011	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.041	0.012	0.004	0.000
35 Central Street, North Shore Channel	0.023	0.004	0.007	0.000
102 Oakton Street, North Shore Channel	0.030	0.009	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.055	0.029	0.002	0.000
101 Foster Avenue, North Shore Channel	0.047	0.027	0.004	0.000
37 Wilson Avenue, North Branch Chicago River	0.054	0.024	0.007	0.002
73 Diverser Parkway, North Branch Chicago River	0.056	0.024	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.049	0.021	0.006	0.000
74 Lake Shore Drive, Chicago River	0.039	0.015	0.003	0.000
100 Wells Street, Chicago River	0.044	0.016	0.000	0.000
39 Madison Street, South Branch Chicago River	0.061	0.018	0.002	0.000
108 Loomis Street, South Branch Chicago River	0.045	0.017	0.003	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.055	0.013	0.002	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	0.078	0.025	0.007	0.000
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.057	0.018	0.007	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.046	0.022	0.004	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.048	0.022	0.005	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	0.052	0.020	0.007	0.005
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.049	0.018	0.009	0.001
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.030	0.004	0.003	0.002
50 Burnham Avenue, Wolf Lake	0.026	0.003	0.003	0.000
55 130th Street, Calumet River	0.044	0.005	0.004	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.075	0.024	0.006	0.002
56 Indiana Avenue, Little Calumet River	0.034	0.008	0.000	0.000
76 Halsted Street, Little Calumet River	0.066	0.023	0.007	0.000
52 Wentworth Avenue, Little Calumet River	0.046	0.009	0.008	0.005
54 Joe Orr Road, Thorn Creek	0.065	0.028	0.002	0.005
97 170th Street, Thorn Creek	0.050	0.013	0.004	0.004
57 Ashland Avenue, Little Calumet River	0.052	0.010	0.007	0.002
58 Ashland Avenue, Cal-Sag Channel	0.066	0.024	0.002	0.000
59 Cicero Avenue, Cal-Sag Channel	0.050	0.020	0.007	0.004
43 Route 83, Cal-Sag Channel	0.064	0.017	0.002	0.002
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.024	0.005	0.004	0.004
63 Longmeadow Lane, West Branch Du Page River	0.041	0.014	0.005	0.000
89 Walnut Lane, West Branch Du Page River	0.061	0.032	0.007	0.002
64 Lake Street, West Branch Du Page River	0.066	0.026	0.005	0.000
79 Higgins Road, Salt Creek	0.027	0.002	0.011	0.000
80 Arlington Heights Road, Salt Creek	0.038	0.020	0.010	0.000
18 Devon Avenue, Salt Creek	0.035	0.016	0.007	0.000
24 Wolf Road, Salt Creek	0.054	0.019	0.012	0.000
21 First Avenue, Salt Creek	0.059	0.020	0.007	0.002
77 Elmhurst Road, Higgins Creek	0.041	0.012	0.008	0.002
78 Wille Road, Higgins Creek	0.062	0.043	0.007	0.000
12 Lake-Cook Road, Buffalo Creek	0.035	0.002	0.010	0.002
13 Lake-Cook Road, Des Plaines River	0.036	0.013	0.009	0.002
17 Oakton Street, Des Plaines River	0.037	0.009	0.003	0.004
19 Belmont Avenue, Des Plaines River	0.041	0.014	0.008	0.000
20 Roosevelt Road, Des Plaines River	0.038	0.011	0.007	0.000
22 Ogden Avenue, Des Plaines River	0.050	0.015	0.008	0.002
23 Willow Springs Road, Des Plaines River	0.047	0.012	0.005	0.000
29 Stephen Street, Des Plaines River	0.047	0.012	0.006	0.000
91 Material Service Road, Des Plaines River	0.049	0.010	0.005	0.001

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-2

DISSOLVED OXYGEN VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year								
		01	00	99	98	97	96	95	94	
<u>Chicago River System</u>										
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	1/ 9	0/ 2	
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND	
103	Golf Road, West Fork North Branch Chicago River	4/ 10	ND	ND	ND	ND	ND	ND	ND	
31	Lake-Cook Road, Middle Fork North Branch	4/ 11	4/ 10	3/ 10	6/ 12	2/ 10	4/ 8	5/ 10	3/ 10	
104	Glenview Road, North Branch Chicago River	1/ 10	ND	ND	ND	ND	ND	ND	ND	
32	Lake-Cook Road, Skokie River	3/ 11	3/ 10	6/ 11	2/ 12	2/ 10	1/ 8	4/ 9	3/ 9	
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
34	Dempster Street, North Branch Chicago River	2/ 12	1/ 11	1/ 11	0/ 12	2/ 11	0/ 12	3/ 10	1/ 11	
96	Albany Avenue, North Branch Chicago River	1/ 12	1/ 6	ND	ND	ND	ND	ND	ND	
35	Central Street, North Shore Channel	0/ 9	1/ 8	2/ 10	2/ 9	0/ 10	2/ 9	1/ 8	0/ 8	
102	Oakton Street, North Shore Channel	3/ 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	1/ 12	0/ 11	
101	Foster Avenue, North Shore Channel	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	1/ 12	1/ 12	0/ 12	
73	Diversey Parkway, North Branch Chicago River	0/ 12	1/ 12	1/ 12	1/ 12	0/ 12	0/ 12	1/ 12	0/ 12	
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7	1/ 12	
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10	
100	Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5	
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND	
99	Archer Avenue, South Fork South Branch Chicago River	6/ 10	ND	ND	ND	ND	ND	ND	ND	
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	2/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12	
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	ND	ND	ND	ND	ND	
75	Cicero Avenue, Chicago Sanitary & Ship Canal	1/ 12	2/ 12	2/ 12	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
42	Route 83, Chicago Sanitary & Ship Canal	2/ 12	0/ 11	1/ 12	1/ 12	0/ 10	0/ 12	0/ 12	0/ 11	
48	Stephen Street, Chicago Sanitary & Ship Canal	2/ 12	0/ 11	0/ 11	1/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	
92	Lockport Forebay, Chicago Sanitary & Ship Canal	9/ 54	8/ 50	ND	ND	ND	ND	ND	ND	
<u>Calumet River System</u>										
49	Ewing Avenue, Calumet River	0/ 23	0/ 24	0/ 24	0/ 24	0/ 23	0/ 15	0/ 11	0/ 11	
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55	130th Street, Calumet River	0/ 21	1/ 23	0/ 22	0/ 24	1/ 23	0/ 15	0/ 11	0/ 11	
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	
86	Burnham Avenue, Grand Calumet River	6/ 10	4/ 11	3/ 11	2/ 12	2/ 12	9/ 11	10/ 13	10/ 12	
56	Indiana Avenue, Little Calumet River	0/ 17	0/ 23	0/ 23	0/ 23	0/ 22	0/ 15	0/ 11	1/ 11	
76	Halsted Street, Little Calumet River	0/ 23	1/ 24	0/ 23	0/ 24	0/ 24	0/ 4	0/ 12	0/ 12	
52	Wentworth Avenue, Little Calumet River	5/ 11	5/ 11	5/ 11	2/ 12	5/ 12	3/ 9	4/ 10	6/ 11	
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	
97	170th Street, Thorn Creek	2/ 10	ND	ND	ND	ND	ND	ND	ND	
57	Ashland Avenue, Little Calumet River	5/ 10	4/ 11	5/ 11	5/ 12	4/ 12	4/ 9	4/ 11	1/ 10	
58	Ashland Avenue, Cal-Sag Channel	0/ 23	1/ 24	0/ 23	0/ 16	0/ 15	0/ 17	0/ 11	0/ 12	
59	Cicero Avenue, Cal-Sag Channel	0/ 23	0/ 24	0/ 23	0/ 24	0/ 24	0/ 16	0/ 12	0/ 12	
43	Route 83, Cal-Sag Channel	1/ 22	0/ 23	0/ 23	0/ 24	0/ 24	0/ 16	0/ 12	0/ 11	
<u>Des Plaines River System</u>										
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	1/ 11	1/ 10	0/ 11	
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	1/ 11	0/ 12	1/ 10	
89	Walnut Lane, West Branch Du Page River	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12	0/ 12	
64	Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	1/ 12	0/ 11	0/ 12	0/ 11	
79	Higgins Road, Salt Creek	1/ 10	4/ 10	1/ 10	1/ 10	1/ 11	1/ 10	0/ 10	1/ 10	
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	1/ 12	0/ 12	0/ 12	0/ 12	0/ 10	
18	Devon Avenue, Salt Creek	0/ 12	0/ 12	1/ 11	0/ 12	0/ 12	2/ 11	0/ 12	1/ 12	
24	Wolf Road, Salt Creek	1/ 12	0/ 10	1/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11	
21	First Avenue, Salt Creek	1/ 12	1/ 10	1/ 11	2/ 12	3/ 11	3/ 12	2/ 12	1/ 11	
77	Elmhurst Road, Higgins Creek	0/ 11	1/ 10	0/ 11	2/ 12	2/ 11	1/ 12	1/ 12	0/ 11	
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	2/ 12	0/ 12	0/ 10	
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	1/ 12	0/ 12	1/ 9	
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	1/ 11	0/ 12	2/ 11	1/ 12	0/ 11	0/ 3	
19	Belmont Avenue, Des Plaines River	1/ 12	2/ 10	4/ 11	4/ 12	2/ 12	1/ 12	2/ 12	3/ 12	
20	Roosevelt Road, Des Plaines River	1/ 12	2/ 10	4/ 11	5/ 12	2/ 12	2/ 12	2/ 12	2/ 12	
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	2/ 11	0/ 12	0/ 12	0/ 13	1/ 12	0/ 11	
23	Willow Springs Road, Des Plaines River	0/ 12	1/ 10	0/ 11	0/ 12	1/ 11	1/ 11	0/ 11	0/ 11	
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 11	
91	Material Service Road, Des Plaines River	1/ 52	0/ 49	ND	ND	ND	ND	ND	ND	

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-3

TEMPERATURE VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 8	0/ 9	0/ 9	0/ 8	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
101 Foster Avenue, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
73 Diversey Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 9	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 11	0/ 12	0/ 10	0/ 12	0/ 7	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	0/ 7	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 11	0/ 12	0/ 11	0/ 12	0/ 7	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 10	0/ 12	0/ 10	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 10	0/ 12	0/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 10	0/ 12	0/ 9	0/ 12	0/ 12	0/ 11
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 7	0/ 12	0/ 12	0/ 10
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 10	0/ 12	0/ 9	0/ 12	0/ 12	0/ 11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 54	0/ 48	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 13	0/ 11	0/ 20	0/ 24	0/ 23	0/ 14	0/ 10	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12
55 130th Street, Calumet River	0/ 13	0/ 10	0/ 18	0/ 24	0/ 23	0/ 14	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/ 9	0/ 10	0/ 10	0/ 12	0/ 12	0/ 10	0/ 12	0/ 11
56 Indiana Avenue, Little Calumet River	0/ 10	0/ 11	0/ 19	0/ 23	0/ 22	0/ 14	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 14	0/ 11	0/ 19	0/ 24	0/ 24	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 10	0/ 10	0/ 12	0/ 12	0/ 8	0/ 9	0/ 10
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 10	0/ 11	0/ 12	0/ 12	0/ 8	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 14	0/ 11	0/ 20	0/ 16	0/ 15	0/ 15	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 14	0/ 11	0/ 20	0/ 24	0/ 24	0/ 14	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 14	0/ 11	0/ 20	0/ 24	0/ 24	0/ 13	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 9	1/ 11	0/ 8	0/ 11	0/ 10	0/ 9
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	1/ 8	0/ 8	0/ 11	0/ 12	0/ 9
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 12	0/ 12	0/ 10
64 Lake Street, West Branch Du Page River	0/ 11	0/ 10	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12	0/ 9
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 9	1/ 10	0/ 9	0/ 10	1/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12	0/ 9
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12	0/ 11
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	1/ 6	0/ 8	0/ 11	0/ 12	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	1/ 12	0/ 9	0/ 11	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	1/ 11	0/ 10	0/ 11	1/ 12	0/ 7	0/ 11	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 11	0/ 11	1/ 12	0/ 8	0/ 11	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	1/ 11	0/ 10	0/ 10	1/ 11	0/ 10	0/ 11	0/ 11	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11	0/ 12	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	0/ 8	0/ 11	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 11	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 11	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 12	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	0/ 7	0/ 11	0/ 10	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 9	0/ 11	1/ 12	0/ 8	0/ 11	0/ 11	0/ 11
91 Material Service Road, Des Plaines River	1/ 52	0/ 48	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-4

pH VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	01	00	99	98	97	96	95	94	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2	
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 9	0/ 10	0/ 12	1/ 8	0/ 8	0/ 10	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 9	0/ 10	0/ 12	1/ 8	0/ 8	0/ 9	0/ 9	
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 10	0/ 11	0/ 12	1/ 10	1/ 12	0/ 10	0/ 11	
96 Albany Avenue, North Branch Chicago River	1/ 12	0/ 6	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 8	1/ 9	2/ 9	1/ 8	1/ 9	1/ 8	1/ 8	
102 Oakton Street, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 11	1/ 12	1/ 10	0/ 12	0/ 11	0/ 11	
101 Foster Avenue, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 11	2/ 12	1/ 11	1/ 12	0/ 12	1/ 12	
73 Diversey Parkway, North Branch Chicago River	0/ 12	1/ 12	0/ 11	2/ 12	3/ 11	1/ 12	0/ 12	0/ 12	
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	1/ 9	0/ 12	0/ 7	0/ 12	
74 Lake Shore Drive, Chicago River	0/ 11	0/ 12	0/ 10	1/ 12	0/ 7	1/ 11	1/ 10	1/ 10	
100 Wells Street, Chicago River	0/ 7	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 11	0/ 12	1/ 11	1/ 12	0/ 7	0/ 12	0/ 11	0/ 5	
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1/ 10	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 10	3/ 12	0/ 10	0/ 12	0/ 9	1/ 12	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	1/ 12	2/ 12	1/ 10	0/ 12	0/ 12	1/ 12	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 10	1/ 12	0/ 9	1/ 12	1/ 12	0/ 11	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	1/ 12	0/ 7	1/ 12	0/ 12	0/ 10	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 10	1/ 12	0/ 9	1/ 12	0/ 12	1/ 11	
82 Lockport Traylor, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 150	1/ 252	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	2/ 52	2/ 48	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	0/ 14	1/ 11	3/ 20	1/ 24	2/ 23	3/ 13	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 11	1/ 10	0/ 11	1/ 12	2/ 12	4/ 11	0/ 11	0/ 12	
55 130th Street, Calumet River	0/ 12	0/ 9	1/ 18	2/ 24	2/ 23	5/ 13	1/ 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/ 10	0/ 9	0/ 10	1/ 12	0/ 12	0/ 10	0/ 12	0/ 11	
56 Indiana Avenue, Little Calumet River	0/ 10	1/ 10	1/ 19	3/ 23	0/ 22	3/ 13	0/ 11	0/ 11	
76 Halsted Street, Little Calumet River	0/ 14	0/ 12	1/ 19	2/ 24	2/ 23	0/ 4	0/ 12	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 9	0/ 10	0/ 12	0/ 12	3/ 8	0/ 9	0/ 10	
54 Joe Orr Road, Thorn Creek	0/ 12	1/ 12	2/ 11	1/ 12	1/ 12	0/ 11	0/ 12	1/ 12	
97 170th Street, Thorn Creek	1/ 9	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	1/ 11	1/ 11	1/ 12	2/ 12	1/ 8	0/ 11	0/ 10	
58 Ashland Avenue, Cal-Sag Channel	0/ 14	0/ 12	1/ 20	2/ 16	1/ 14	1/ 15	0/ 11	0/ 12	
59 Cicero Avenue, Cal-Sag Channel	0/ 14	0/ 12	1/ 20	4/ 24	2/ 23	1/ 14	0/ 12	0/ 12	
43 Route 83, Cal-Sag Channel	0/ 14	0/ 12	1/ 20	3/ 24	3/ 23	1/ 14	0/ 12	0/ 11	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 8	1/ 11	0/ 8	0/ 11	0/ 10	0/ 9	
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 8	2/ 8	0/ 8	0/ 11	0/ 12	0/ 9	
89 Walnut Lane, West Branch Du Page River	0/ 12	1/ 12	0/ 9	0/ 12	0/ 10	0/ 12	0/ 12	0/ 10	
64 Lake Street, West Branch Du Page River	0/ 11	1/ 10	1/ 9	2/ 12	0/ 10	0/ 11	0/ 12	0/ 9	
79 Higgins Road, Salt Creek	0/ 10	1/ 10	2/ 8	2/ 10	0/ 9	0/ 10	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 12	1/ 12	0/ 9	1/ 12	0/ 10	0/ 12	0/ 12	0/ 9	
18 Devon Avenue, Salt Creek	1/ 12	1/ 12	0/ 9	0/ 12	0/ 10	0/ 12	0/ 12	2/ 11	
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	2/ 8	3/ 11	0/ 12	1/ 11	
21 First Avenue, Salt Creek	0/ 12	0/ 10	1/ 11	0/ 12	0/ 9	0/ 11	1/ 12	0/ 11	
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	1/ 11	0/ 12	1/ 7	1/ 11	0/ 12	0/ 11	
78 Wille Road, Higgins Creek	0/ 12	0/ 11	0/ 11	0/ 12	4/ 8	1/ 11	0/ 12	0/ 11	
12 Lake-Cook Road, Buffalo Creek	0/ 11	3/ 10	1/ 9	4/ 11	2/ 10	1/ 12	1/ 12	2/ 10	
13 Lake-Cook Road, Des Plaines River	0/ 12	1/ 12	0/ 9	3/ 12	0/ 10	1/ 12	1/ 12	2/ 9	
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	1/ 11	0/ 12	0/ 8	1/ 11	1/ 11	1/ 3	
19 Belmont Avenue, Des Plaines River	0/ 11	0/ 10	0/ 11	0/ 12	1/ 10	0/ 11	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	1/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	3/ 11	0/ 12	1/ 10	0/ 12	1/ 12	1/ 11	
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	2/ 7	2/ 11	0/ 10	1/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 9	1/ 11	0/ 12	2/ 8	3/ 11	0/ 11	1/ 11	
91 Material Service Road, Des Plaines River	3/ 50	2/ 48	ND	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-5

CHLORIDE VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	1/ 2	1/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	1/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	1/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	2/ 10	1/ 11	0/ 12	1/ 10	1/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1/ 12	1/ 11	1/ 11	0/ 12	1/ 11	1/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	0/ 10	ND	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/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	0/ 7	ND	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	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/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	1/ 11	1/ 9	1/ 11	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	1/ 9	0/ 8	2/ 10	3/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	1/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	3/ 10	2/ 10	0/ 10	0/ 10	1/ 11	2/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	1/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	1/ 12	1/ 12	0/ 11	0/ 12	2/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	1/ 12	1/ 10	0/ 11	1/ 6	1/ 12	0/ 12	0/ 12	0/ 11
21 First Avenue, Salt Creek	1/ 12	1/ 10	0/ 11	1/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	3/ 11	2/ 10	3/ 11	3/ 12	3/ 11	3/ 12	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	1/ 12	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	2/ 11	0/ 10	0/ 11	0/ 11	0/ 11	1/ 12	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	1/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 13	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 12	0/ 12	0/ 11
91 Material Service Road, Des Plaines River	2/ 52	2/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-6

AMMONIUM NITROGEN VIOLATION HISTORY THROUGH 2001

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>								
No.	Name	01	00	99	98	97	96	95	94	
<u>Chicago River System</u>										
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2	
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND	
103	Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10	
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
32	Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9	
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11	
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND	
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	1/ 9	0/ 10	0/ 9	0/ 8	0/ 8	
102	Oakton Street, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND	
36	Touhy Avenue, North Shore Channel	ND	ND	ND	1/ 12	1/ 12	2/ 12	0/ 12	1/ 11	
101	Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	
37	Wilson Avenue, North Branch Chicago River	ND	ND	ND	2/ 12	2/ 12	3/ 12	0/ 12	2/ 12	
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	2/ 12	2/ 12	2/ 12	0/ 12	0/ 12	
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	2/ 12	0/ 11	0/ 12	0/ 7	1/ 12	
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10	
100	Wells Street, Chicago River	0/ 7	ND	ND	ND	ND	ND	ND	ND	
39	Madison Street, South Branch Chicago River	ND	ND	ND	1/ 12	0/ 11	0/ 12	0/ 11	0/ 4	
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	3/ 12	0/ 12	0/ 12	0/ 9	1/ 12	
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	1/ 12	1/ 12	0/ 12	0/ 12	1/ 12	
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	1/ 12	0/ 10	0/ 12	0/ 12	0/ 11	
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	1/ 12	0/ 12	0/ 12	1/ 12	1/ 12	
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0/ 52	0/ 51	0/ 52	0/146	0/251	
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/ 20	0/ 24	0/ 23	0/ 15	0/ 11	0/ 11	
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 18	0/ 24	0/ 23	0/ 15	0/ 11	0/ 11	
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	0/ 12	0/ 12	4/ 11	1/ 13	1/ 12	
56	Indiana Avenue, Little Calumet River	ND	ND	ND	1/ 23	0/ 22	4/ 15	1/ 11	0/ 11	
76	Halsted Street, Little Calumet River	ND	ND	ND	0/ 24	1/ 24	0/ 4	1/ 12	0/ 12	
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11	
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	2/ 12	
97	170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND	
57	Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10	
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	1/ 16	1/ 15	0/ 17	0/ 11	1/ 12	
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	0/ 24	2/ 24	1/ 16	1/ 12	0/ 12	
43	Route 83, Cal-Sag Channel	ND	ND	ND	3/ 24	3/ 24	0/ 16	0/ 12	0/ 11	
<u>Des Plaines River System</u>										
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11	
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	1/ 11	0/ 12	0/ 10	
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	1/ 12	0/ 12	0/ 12	
64	Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
79	Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10	
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	
18	Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
24	Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11	
21	First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	0/ 9	
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3	
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11	
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11	
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 11	
91	Material Service Road, Des Plaines River	0/ 52	0/ 50	ND	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-7

UN-IONIZED AMMONIA VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8	ND	ND
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	1/ 8	ND	ND
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 12	ND	ND
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 8	0/ 9	0/ 9	0/ 8	2/ 9	ND	ND
102	Oakton Street, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0/ 12	1/ 12	1/ 11	1/ 12	1/ 10	2/ 12	ND	ND
101	Foster Avenue, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0/ 12	1/ 12	2/ 11	2/ 12	2/ 11	3/ 12	ND	ND
73	Diversey Parkway, North Branch Chicago River	0/ 12	1/ 12	0/ 11	2/ 12	2/ 11	2/ 12	ND	ND
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 11	2/ 12	0/ 9	0/ 12	ND	ND
74	Lake Shore Drive, Chicago River	0/ 11	0/ 12	0/ 10	0/ 12	0/ 7	0/ 11	ND	ND
100	Wells Street, Chicago River	0/ 7	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 11	0/ 12	1/ 11	1/ 12	0/ 7	0/ 12	ND	ND
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	1/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	1/ 10	3/ 12	0/ 10	0/ 12	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	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/ 10	1/ 12	0/ 9	0/ 12	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	1/ 12	0/ 7	0/ 12	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 10	1/ 12	0/ 9	0/ 12	ND	ND
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 52	1/ 48	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	0/ 11	0/ 11	0/ 19	0/ 24	0/ 23	1/ 13	ND	ND
50	Burnham Avenue, Wolf Lake	0/ 10	0/ 10	0/ 11	0/ 12	0/ 12	0/ 11	ND	ND
55	130th Street, Calumet River	0/ 10	0/ 9	0/ 17	0/ 24	0/ 23	4/ 13	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/ 9	2/ 9	1/ 10	0/ 12	0/ 12	4/ 10	ND	ND
56	Indiana Avenue, Little Calumet River	0/ 8	1/ 10	0/ 18	1/ 23	0/ 22	4/ 13	ND	ND
76	Halsted Street, Little Calumet River	0/ 12	0/ 11	0/ 18	0/ 24	1/ 23	0/ 4	ND	ND
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 9	0/ 10	0/ 12	0/ 12	3/ 8	ND	ND
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 11	0/ 11	0/ 12	1/ 12	0/ 11	ND	ND
97	170th Street, Thorn Creek	0/ 9	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 10	0/ 10	0/ 11	0/ 12	1/ 12	0/ 8	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 11	1/ 19	1/ 16	1/ 14	0/ 15	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 11	0/ 19	0/ 24	2/ 23	1/ 14	ND	ND
43	Route 83, Cal-Sag Channel	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/ 11	0/ 7	0/ 8	0/ 11	0/ 8	0/ 11	ND	ND
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 8	0/ 8	0/ 8	1/ 11	ND	ND
89	Walnut Lane, West Branch Du Page River	0/ 12	1/ 12	0/ 9	0/ 12	0/ 10	1/ 12	ND	ND
64	Lake Street, West Branch Du Page River	0/ 11	1/ 10	0/ 9	0/ 12	0/ 10	1/ 11	ND	ND
79	Higgins Road, Salt Creek	0/ 10	1/ 10	0/ 8	0/ 10	0/ 9	0/ 10	ND	ND
80	Arlington Heights Road, Salt Creek	0/ 12	1/ 12	0/ 9	0/ 12	1/ 10	0/ 12	ND	ND
18	Devon Avenue, Salt Creek	0/ 12	1/ 12	0/ 9	0/ 12	0/ 10	0/ 12	ND	ND
24	Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 8	0/ 11	ND	ND
21	First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 9	1/ 11	ND	ND
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 7	0/ 11	ND	ND
78	Wille Road, Higgins Creek	0/ 12	0/ 11	0/ 11	0/ 12	1/ 8	0/ 11	ND	ND
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 9	0/ 11	0/ 10	0/ 12	ND	ND
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 9	0/ 12	0/ 10	1/ 12	ND	ND
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 8	0/ 11	ND	ND
19	Belmont Avenue, Des Plaines River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	ND	ND
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	ND	ND
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	1/ 10	0/ 12	ND	ND
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 7	0/ 11	ND	ND
29	Stephen Street, Des Plaines River	0/ 12	0/ 9	0/ 11	0/ 12	0/ 8	1/ 11	ND	ND
91	Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	1/ 2	1/ 1	ND	ND	ND	1/ 3	1/ 9	0/ 2
106	Dundee Road, West Fork North Branch Chicago River	1/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	1/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	3/ 10	1/ 11	0/ 12	1/ 10	2/ 7	1/ 10	0/ 10
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	2/ 11	4/ 10	1/ 11	1/ 12	1/ 10	2/ 7	0/ 9	1/ 9
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	2/ 12	4/ 11	1/ 11	1/ 12	1/ 11	3/ 11	1/ 10	1/ 11
96	Albany Avenue, North Branch Chicago River	2/ 12	1/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 8	0/ 8	0/ 8
102	Oakton Street, North Shore Channel	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	1/ 12	0/ 11
101	Foster Avenue, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0/ 12	1/ 12	1/ 12	0/ 12	0/ 12	0/ 11	1/ 12	0/ 12
73	Diversey Parkway, North Branch Chicago River	0/ 12	1/ 12	1/ 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/ 11	0/ 11	0/ 7	0/ 12
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 10	0/ 10
100	Wells Street, Chicago River	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/ 11	0/ 11	0/ 11	0/ 5
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 11	0/ 9	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	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	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
82	Lockport Treblier, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 147	1/ 252
92	Lockport Forebay, Chicago Sanitary & Ship Canal	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	1/ 12	0/ 12	0/ 10	0/ 11	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56	Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52	Wentworth Avenue, Little Calumet River	0/ 11	3/ 11	2/ 11	0/ 12	0/ 12	0/ 9	0/ 10	1/ 11
54	Joe Orr Road, Thorn Creek	10/ 12	6/ 12	7/ 12	8/ 12	9/ 12	5/ 12	3/ 12	1/ 12
97	170th Street, Thorn Creek	2/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	2/ 10	6/ 11	4/ 11	4/ 12	3/ 12	2/ 9	0/ 11	1/ 10
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59	Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11	0/ 11	0/ 12
43	Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	1/ 11	1/ 9	1/ 11	1/ 10	0/ 11
63	Longmeadow Lane, West Branch Du Page River	1/ 4	1/ 9	3/ 9	2/ 8	5/ 10	2/ 11	4/ 12	2/ 10
89	Walnut Lane, West Branch Du Page River	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	2/ 12	1/ 12	1/ 12
64	Lake Street, West Branch Du Page River	1/ 11	0/ 11	0/ 11	1/ 12	0/ 12	2/ 11	1/ 12	1/ 11
79	Higgins Road, Salt Creek	3/ 10	3/ 10	2/ 10	2/ 10	2/ 11	2/ 10	2/ 10	4/ 10
80	Arlington Heights Road, Salt Creek	2/ 12	1/ 12	1/ 11	1/ 12	1/ 12	3/ 12	2/ 12	1/ 10
18	Devon Avenue, Salt Creek	1/ 12	2/ 12	1/ 11	1/ 12	2/ 12	3/ 12	1/ 12	0/ 12
24	Wolf Road, Salt Creek	2/ 12	2/ 10	1/ 11	3/ 6	1/ 12	4/ 12	4/ 12	0/ 11
21	First Avenue, Salt Creek	2/ 12	2/ 10	1/ 11	3/ 12	0/ 11	3/ 12	2/ 12	1/ 11
77	Elmhurst Road, Higgins Creek	3/ 11	3/ 10	3/ 11	4/ 12	4/ 11	4/ 12	3/ 12	4/ 11
78	Wille Road, Higgins Creek	1/ 12	2/ 12	0/ 11	2/ 12	1/ 12	1/ 12	0/ 12	0/ 11
12	Lake-Cook Road, Buffalo Creek	2/ 11	2/ 10	0/ 11	2/ 11	1/ 11	3/ 12	1/ 12	1/ 10
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17	Oakton Street, Des Plaines River	1/ 12	0/ 10	0/ 11	1/ 12	0/ 11	1/ 12	0/ 11	0/ 3
19	Belmont Avenue, Des Plaines River	1/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 12	0/ 12	1/ 12
20	Roosevelt Road, Des Plaines River	1/ 12	0/ 10	0/ 11	1/ 12	1/ 12	0/ 12	1/ 12	1/ 12
22	Ogden Avenue, Des Plaines River	1/ 12	1/ 10	0/ 11	1/ 12	2/ 12	1/ 13	1/ 12	0/ 11
23	Willow Springs Road, Des Plaines River	1/ 12	0/ 10	0/ 11	1/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29	Stephen Street, Des Plaines River	1/ 12	1/ 10	0/ 11	1/ 12	1/ 12	1/ 12	1/ 12	0/ 11
91	Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 8	0/ 1
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 9	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 9	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 9	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
101 Foster Avenue, North Shore Channel	0/ 10	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
73 Diversey Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	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/ 10	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 11	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
82 Lockport Treblez, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 51	0/ 51	0/ 252
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 10	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 6	0/ 10	0/ 9	0/ 8	0/ 11	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 7	0/ 9	0/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 11	0/ 11	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11	1/ 11	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 11	0/ 11	0/ 11	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 11	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 11	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 10	0/ 12	0/ 11	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 11	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 11	0/ 11	0/ 11	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 12	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 9	0/ 10	0/ 10	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11
91 Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 9
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 8
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 10
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 7	0/ 8
102 Oakton Street, North Shore Channel	0/ 10	ND	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/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 9
100 Wells Street, Chicago River	0/ 7	ND	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	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/ 10	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	8/ 12	2/ 12	3/ 12	4/ 12	4/ 12	3/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 8	0/ 10
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 10	0/ 9
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 10	0/ 10
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 8	0/ 9
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	0/ 9
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 10	0/ 10
21 First Avenue, Salt Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 10
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 10
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 10
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 10	0/ 9
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 8
17 Oakton Steet, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 9	0/ 2
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 10	0/ 9
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 9	0/ 10
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	0/ 10
91 Material Service Road, Des Plaines River	0/ 52	0/ 50	ND	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<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 Dempster 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/ 10	ND	ND	0/ 3	1/ 12	0/ 12	1/ 12	1/ 11
101 Foster Avenue, North Shore Channel	0/ 9	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 10	ND	ND	0/ 3	2/ 12	1/ 12	0/ 12	1/ 12
73 Diversey Parkway, North Branch Chicago River	2/ 10	ND	ND	0/ 2	2/ 12	0/ 12	0/ 12	0/ 12
46 Grand Avenue, North Branch Chicago River	0/ 10	ND	ND	0/ 2	2/ 11	1/ 12	1/ 7	0/ 12
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/ 10	ND	ND	0/ 2	0/ 11	0/ 12	1/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	1/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/ 2	0/ 12	0/ 12	2/ 9	1/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	0/ 2	1/ 12	0/ 12	3/ 12	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	0/ 2	1/ 12	0/ 12	2/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	0/ 2	1/ 10	0/ 12	1/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	0/ 2	2/ 12	0/ 12	3/ 12	1/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1/ 45	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
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/ 9	ND	ND	0/ 3	2/ 12	1/ 11	1/ 12	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	ND	ND	0/ 3	1/ 11	0/ 9	0/ 10	0/ 11
76 Halsted Street, Little Calumet River	0/ 10	ND	ND	0/ 3	2/ 12	0/ 4	0/ 11	0/ 12
52 Wentworth 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, Cal-Sag Channel	0/ 10	ND	ND	ND	1/ 6	0/ 11	0/ 10	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 10	ND	ND	0/ 3	0/ 12	1/ 11	1/ 11	0/ 12
43 Route 83, Cal-Sag Channel	0/ 10	ND	ND	0/ 3	0/ 12	0/ 11	1/ 10	0/ 11
<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
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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	0/ 9	0/ 2
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	0/ 10	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	0/ 9	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	0/ 3	0/ 10	0/ 11
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	0/ 8	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/ 11
101 Foster Avenue, North Shore Channel	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 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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	0/ 2	0/ 9	0/ 10
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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	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	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 54	0/ 48	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	0/ 1	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	0/ 3	1/ 12	0/ 12
55 130th Street, Calumet River	ND	ND	ND	ND	ND	0/ 1	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 10
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 11
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	2/ 10	2/ 10
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	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	1/ 11	1/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	0/ 2	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	0/ 2	1/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	0/ 3	1/ 12	0/ 12
64 Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	0/ 2	0/ 12	0/ 11
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	0/ 1	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	0/ 2	1/ 12	0/ 12
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 11
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 11
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 9
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	0/ 3	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	0/ 2	0/ 11	1/ 11
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	0/ 3	0/ 12	0/ 11
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 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND	ND
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND	ND
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	ND	ND
102	Oakton Street, North Shore Channel	0/ 10	ND	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/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
100	Wells Street, Chicago River	0/ 7	ND	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/ 9	ND	ND
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 9	ND	ND
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	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	1/ 11	2/ 11	0/ 12	0/ 12	0/ 9	ND	ND
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 9	ND	ND
97	170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 9	ND	ND
63	Longmeadow Lane, West Branch Du Page River	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/ 11	0/ 10	0/ 12	0/ 12	0/ 9	ND	ND
64	Lake Street, West Branch Du Page River	0/ 11	0/ 10	0/ 10	0/ 12	0/ 12	0/ 9	ND	ND
79	Higgins Road, Salt Creek	0/ 10	0/ 9	0/ 10	0/ 10	0/ 11	0/ 9	ND	ND
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
18	Devon Avenue, Salt Creek	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
24	Wolf Road, Salt Creek	0/ 12	0/ 9	0/ 10	0/ 6	0/ 12	0/ 9	ND	ND
21	First Avenue, Salt Creek	0/ 12	0/ 9	0/ 10	0/ 12	0/ 11	0/ 9	ND	ND
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 9	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
78	Wille Road, Higgins Creek	0/ 12	0/ 11	1/ 11	0/ 12	0/ 12	0/ 9	ND	ND
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 9	0/ 11	0/ 11	0/ 11	0/ 9	ND	ND
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 11	1/ 11	0/ 12	0/ 11	0/ 9	ND	ND
17	Oakton Street, Des Plaines River	0/ 12	0/ 9	1/ 11	0/ 12	0/ 11	0/ 9	ND	ND
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 9	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 9	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 9	0/ 10	0/ 12	0/ 12	0/ 10	ND	ND
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 9	0/ 10	0/ 12	0/ 11	0/ 9	ND	ND
29	Stephen Street, Des Plaines River	0/ 12	0/ 9	0/ 10	0/ 12	0/ 12	0/ 9	ND	ND
91	Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	01	00	99	98	97	96	95	94	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2	
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9	
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8	
102 Oakton Street, North Shore Channel	0/ 10	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/ 11	
101 Foster Avenue, North Shore Channel	0/ 10	ND	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/ 11	0/ 12	0/ 7	0/ 12	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10	
100 Wells Street, Chicago River	0/ 7	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11	0/ 5	
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12	
107 Western Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 49	0/ 48	0/ 51	0/ 30	0/ 95	0/252	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 54	0/ 50	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/ 10	0/ 11	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	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/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12	
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12	
52 Wentworth Avenue, Little Calumet River	11/ 11	7/ 11	4/ 11	2/ 12	6/ 12	2/ 9	3/ 10	4/ 11	
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4/ 10	5/ 11	0/ 11	2/ 12	1/ 12	0/ 9	1/ 11	1/ 10	
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12	
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 9	0/ 8	0/ 11	0/ 9	0/ 11	
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 6	0/ 10	0/ 11	0/ 11	0/ 10	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	1/ 10	0/ 11	0/ 11	0/ 11	0/ 11	
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 8	0/ 10	0/ 10	0/ 9	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	1/ 10	0/ 11	0/ 12	0/ 11	0/ 10	
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 5	0/ 11	0/ 12	0/ 11	0/ 11	
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 12	0/ 11	0/ 11	
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 10	0/ 10	0/ 12	0/ 11	0/ 11	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 9	0/ 10	0/ 12	0/ 11	0/ 10	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 10	1/ 10	0/ 12	0/ 11	0/ 9	
17 Oakton Steet, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 12	0/ 9	0/ 3	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 13	0/ 11	0/ 10	
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 10	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	
91 Material Service Road, Des Plaines River	0/ 52	0/ 50	ND	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-15

FECAL COLIFORM VIOLATION HISTORY THROUGH 2001

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>							
No.	Name	01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	2/ 2	1/ 1	ND	ND	ND	4/ 4	9/2	2/ 2
106	Dundee Road, West Fork North Branch Chicago River	5/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	9/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	10/ 11	7/ 10	9/ 11	10/ 12	7/ 10	7/ 8	8/ 10	9/ 10
104	Glenview Road, North Branch Chicago River	7/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	11/ 11	8/ 10	11/ 11	10/ 12	9/ 10	8/ 8	9/2	9/2
105	Frontage Road, Skokie River	6/ 10	ND	ND	ND	ND	ND	ND	ND
34	Despeter Street, North Branch Chicago River	10/ 12	11/ 11	11/ 11	11/ 12	5/ 11	9/ 12	8/ 10	10/ 11
96	Albany Avenue, North Branch Chicago River	12/ 12	6/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	5/ 9	5/ 9	2/ 10	3/ 9	1/ 10	4/ 9	4/ 8	1/ 8
102	Oakton Street, North Shore Channel	7/ 10	ND	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	1/ 12	2/ 12	0/ 11	2/ 12	0/ 11	1/ 11	1/ 10	1/ 10
100	Wells Street, Chicago River	4/ 7	ND	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 Treblex, 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	1/ 12	0/ 12	0/ 10	1/ 10	2/ 11
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	3/ 11	2/ 11	1/ 11	0/ 12	0/ 12	1/ 10	2/ 11	3/ 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	11/ 11	10/ 11	10/ 11	11/ 12	12/ 12	8/ 9	9/ 10	10/ 11
54	Joe Orr Road, Thorn Creek	10/ 12	9/ 12	10/ 12	8/ 12	12/ 12	12/ 12	10/ 12	10/ 12
97	170th Street, Thorn Creek	9/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	7/ 10	8/ 11	10/ 11	9/ 12	10/ 12	7/ 9	9/ 11	8/ 10
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	1/ 11	3/ 7	4/ 10	3/ 11	6/ 9	4/ 11	6/ 10	6/ 11
63	Longmeadow Lane, West Branch Du Page River	4/ 4	8/ 9	6/ 9	5/ 8	8/ 10	10/ 11	9/ 12	8/ 10
89	Walnut Lane, West Branch Du Page River	8/ 12	8/ 12	6/ 11	6/ 12	10/ 12	11/ 12	9/ 12	10/ 12
64	Lake Street, West Branch Du Page River	10/ 11	8/ 11	7/ 11	7/ 12	11/ 12	10/ 11	10/ 12	10/ 11
79	Higgins Road, Salt Creek	1/ 10	5/ 10	0/ 10	0/ 10	3/ 11	3/ 10	2/ 10	2/ 10
80	Arlington Heights Road, Salt Creek	6/ 12	8/ 12	3/ 11	5/ 12	8/ 12	7/ 12	8/ 12	6/ 10
18	Devon Avenue, Salt Creek	9/ 12	9/ 12	7/ 11	10/ 12	8/ 12	12/ 12	10/ 12	9/ 12
24	Wolf Road, Salt Creek	7/ 12	8/ 10	5/ 11	5/ 6	11/ 12	11/ 12	12/ 12	8/ 11
21	First Avenue, Salt Creek	10/ 12	9/ 10	9/ 11	8/ 12	8/ 11	10/ 12	10/ 12	9/ 11
77	Elmhurst Road, Higgins Creek	6/ 11	6/ 10	6/ 11	3/ 12	7/ 11	11/ 12	9/ 12	7/ 11
78	Wille Road, Higgins Creek	7/ 12	7/ 12	5/ 11	6/ 12	7/ 12	9/ 12	7/ 12	6/ 11
12	Lake-Cook Road, Buffalo Creek	4/ 11	4/ 10	3/ 11	4/ 11	5/ 11	7/ 12	4/ 12	7/ 10
13	Lake-Cook Road, Des Plaines River	4/ 12	6/ 12	5/ 11	5/ 12	7/ 11	8/ 12	7/ 12	5/ 9
17	Oakton Street, Des Plaines River	5/ 12	6/ 10	8/ 11	5/ 12	7/ 11	11/ 12	5/ 11	2/ 3
19	Belmont Avenue, Des Plaines River	6/ 12	8/ 10	8/ 11	9/ 12	12/ 12	11/ 12	11/ 12	8/ 12
20	Roosevelt Road, Des Plaines River	6/ 12	8/ 10	9/ 11	11/ 12	11/ 12	10/ 12	11/ 12	8/ 12
22	Ogden Avenue, Des Plaines River	7/ 12	8/ 10	7/ 11	7/ 12	10/ 12	12/ 13	11/ 12	7/ 11
23	Willow Springs Road, Des Plaines River	5/ 12	8/ 10	5/ 11	5/ 12	7/ 11	6/ 11	5/ 11	6/ 11
29	Stephen Street, Des Plaines River	3/ 12	7/ 10	4/ 11	4/ 12	9/ 12	6/ 12	7/ 12	4/ 11
91	Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 4	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 9	ND	ND	ND	ND	ND	ND	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 9	ND	ND	ND	ND	ND	ND	0/ 9
105 Frontage Road, Skokie River	0/ 9	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 7	0/ 9	0/ 10	ND	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	0/ 9	ND	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/ 10	ND	ND	ND	ND	ND	ND	0/ 10
100 Wells Street, Chicago River	0/ 7	ND	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/ 9	ND	ND	ND	ND	ND	ND	0/ 9
50 Burnham Avenue, Wolf Lake	0/ 8	ND	ND	ND	ND	ND	ND	0/ 10
55 130th Street, Calumet River	0/ 9	ND	ND	ND	ND	ND	ND	0/ 9
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/ 9	ND	ND	ND	ND	ND	ND	0/ 9
54 Joe Orr Road, Thorn Creek	0/ 9	ND	ND	ND	ND	ND	ND	0/ 10
97 170th Street, Thorn Creek	0/ 9	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 8	ND	ND	ND	ND	ND	ND	0/ 8
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 3	0/ 9	0/ 9	ND	0/ 10	0/ 11	0/ 11	0/ 12
89 Walnut Lane, West Branch Du Page River	0/ 10	0/ 12	0/ 11	ND	0/ 12	0/ 12	0/ 11	0/ 12
64 Lake Street, West Branch Du Page River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	ND	0/ 10	0/ 10	0/ 10	0/ 11
80 Arlington Heights Road, Salt Creek	0/ 10	0/ 12	0/ 11	ND	0/ 12	0/ 12	0/ 11	0/ 12
18 Devon Avenue, Salt Creek	0/ 10	ND	ND	ND	0/ 1	ND	ND	0/ 12
24 Wolf Road, Salt Creek	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
21 First Avenue, Salt Creek	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 9	0/ 10	0/ 11	ND	0/ 11	0/ 12	0/ 10	0/ 12
78 Wille Road, Higgins Creek	0/ 10	0/ 12	0/ 11	ND	0/ 12	0/ 12	0/ 11	0/ 12
12 Lake-Cook Road, Buffalo Creek	0/ 9	ND	ND	ND	ND	ND	ND	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 9
17 Oakton Steet, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
29 Stephen Street, Des Plaines River	0/ 10	ND	ND	ND	ND	ND	ND	0/ 11
91 Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	1/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	1/ 10	1/ 11	1/ 12	0/ 10	1/ 8	0/ 10	0/ 10
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 11	1/ 10	0/ 11	1/ 12	0/ 10	1/ 8	0/ 9	0/ 9
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1/ 12	0/ 11	1/ 11	2/ 12	0/ 11	1/ 12	0/ 10	0/ 11
96	Albany Avenue, North Branch Chicago River	0/ 12	1/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102	Oakton Street, North Shore Channel	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/ 11
101	Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	1/ 11	1/ 11	0/ 10	0/ 10
100	Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82	Lockport Treblex, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	0/ 12	2/ 12	0/ 12	2/ 12	3/ 12	1/ 10	0/ 11	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	2/ 12	1/ 12	1/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 11	1/ 12	0/ 12	1/ 10	0/ 11	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56	Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52	Wentworth Avenue, Little Calumet River	0/ 11	2/ 11	0/ 11	2/ 12	0/ 12	2/ 9	0/ 10	0/ 11
54	Joe Orr Road, Thorn Creek	0/ 12	1/ 12	0/ 12	2/ 12	0/ 12	2/ 12	0/ 12	0/ 12
97	170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 10	2/ 11	0/ 11	0/ 12	1/ 12	2/ 9	0/ 11	0/ 10
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59	Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43	Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	1/ 11	3/ 9	0/ 11	0/ 10	0/ 11
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	3/ 10	0/ 11	0/ 12	0/ 10
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	3/ 12	0/ 12	0/ 12	0/ 12
64	Lake Street, West Branch Du Page River	0/ 11	1/ 11	0/ 11	1/ 12	4/ 12	1/ 11	0/ 12	0/ 11
79	Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	1/ 10	4/ 11	0/ 10	0/ 10	0/ 10
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	3/ 12	0/ 12	0/ 12	0/ 10
18	Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	4/ 12	0/ 12	0/ 12	0/ 12
24	Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	1/ 12	0/ 12	0/ 12	0/ 11
21	First Avenue, Salt Creek	0/ 12	1/ 10	0/ 11	0/ 12	1/ 11	1/ 12	0/ 12	0/ 11
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	4/ 11	1/ 12	0/ 12	0/ 11
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	2/ 12	0/ 12	0/ 12	0/ 11
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	4/ 11	0/ 12	0/ 12	0/ 10
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	3/ 11	0/ 12	0/ 12	0/ 9
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	1/ 11	0/ 12	0/ 11	0/ 3
19	Belmont Avenue, Des Plaines River	1/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	1/ 11	0/ 12	3/ 12	1/ 13	0/ 12	0/ 11
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	2/ 11	0/ 11	0/ 11	0/ 11
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 11
91	Material Service Road, Des Plaines River	1/ 51	2/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-18

TOTAL ARSENIC VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	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/ 11
101 Foster Avenue, North Shore Channel	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 Diversesey 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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Treblex, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17 Oakton Steet, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-19

TOTAL BARIUM VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	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/ 11
101 Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 13	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 13	0/ 11
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-20

TOTAL BORON VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND	ND
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	ND	ND
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	ND	ND
102 Oakton Street, North Shore Channel	0/ 10	ND	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 Diversay 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/ 11	0/ 12	0/ 11	0/ 9	ND	ND
100 Wells Street, Chicago River	0/ 7	ND	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/ 7	ND	ND
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 7	ND	ND
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 7	ND	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/ 12	1/ 12	0/ 7	ND	ND
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 7	ND	ND
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	1/ 12	0/ 7	ND	ND
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 9	ND	ND
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 9	ND	ND
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 9	ND	ND
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 9	ND	ND
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 9	ND	ND
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 10	ND	ND
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 9	ND	ND
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 9	ND	ND
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-21

TOTAL CADMIUM VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	1/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	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/ 11
101 Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 13	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-22

TOTAL COPPER VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	3/ 9	1/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	2/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	2/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	2/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	1/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	1/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	2/ 8	0/ 8
102 Oakton Street, North Shore Channel	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/ 11
101 Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	1/ 12	0/ 11	0/ 12	0/ 11	0/ 11	1/ 10	0/ 10
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	1/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12	0/ 10	2/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	3/ 11	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	1/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	1/ 11	0/ 11	0/ 12	0/ 12	0/ 9	1/ 10	1/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	1/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	5/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	2/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	2/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	1/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	1/ 12	2/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	1/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	1/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	1/ 12	1/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	2/ 12	0/ 9
17 Oakton Steet, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 11	1/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	1/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	2/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	2/ 11	1/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	2/ 12	1/ 11
91 Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102	Oakton Street, North Shore Channel	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/ 11
101	Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100	Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82	Lockport Treble, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92	Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56	Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97	170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59	Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43	Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
64	Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79	Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18	Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24	Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21	First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91	Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	01	00	99	98	97	96	95	94	
<u>Chicago River System</u>									
10 Lake-Cook Road, West Fork North Branch	2/ 2	1/ 1	ND	ND	ND	1/ 4	1/ 9	1/ 2	
106 Dundee Road, West Fork North Branch Chicago River	4/ 5	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	5/ 10	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	9/ 11	0/ 10	1/ 11	0/ 12	3/ 10	2/ 8	3/ 10	1/ 10	
104 Glenview Road, North Branch Chicago River	1/ 10	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	3/ 11	0/ 10	0/ 11	0/ 12	0/ 10	1/ 8	2/ 9	0/ 9	
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5/ 12	0/ 11	1/ 11	0/ 12	0/ 11	1/ 12	1/ 10	0/ 11	
96 Albany Avenue, North Branch Chicago River	1/ 12	0/ 6	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8	
102 Oakton Street, North Shore Channel	1/ 10	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/ 11	
101 Foster Avenue, North Shore Channel	0/ 10	ND	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/ 11	0/ 12	0/ 7	0/ 12	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10	
100 Wells Street, Chicago River	0/ 7	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 5	
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12	
107 Western Avenue, Chicago Sanitary & Ship Canal	1/ 10	ND	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	6/ 50	9/ 52	10/ 51	3/ 52	0/ 48	0/ 51	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 53	0/ 50	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49 Ewing Avenue, Calumet River	1/ 12	1/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	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/ 10	0/ 11	0/ 11	1/ 12	0/ 12	4/ 11	4/ 13	2/ 12	
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12	
52 Wentworth Avenue, Little Calumet River	8/ 11	8/ 11	4/ 11	8/ 12	5/ 12	5/ 9	1/ 10	6/ 11	
54 Joe Orr Road, Thorn Creek	2/ 12	2/ 12	0/ 12	1/ 12	2/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	9/ 10	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	8/ 10	1/ 11	2/ 11	2/ 12	2/ 12	1/ 9	0/ 11	2/ 10	
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12	
59 Cicero Avenue, Cal-Sag Channel	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
43 Route 83, Cal-Sag Channel	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	2/ 11	1/ 7	0/ 10	0/ 11	2/ 9	4/ 11	0/ 10	0/ 11	
63 Longmeadow Lane, West Branch Du Page River	4/ 4	2/ 9	1/ 9	2/ 8	0/ 10	4/ 11	2/ 12	1/ 10	
89 Walnut Lane, West Branch Du Page River	1/ 12	0/ 12	1/ 11	0/ 12	0/ 12	1/ 12	1/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	5/ 11	2/ 11	0/ 11	0/ 12	2/ 12	3/ 11	2/ 12	0/ 11	
79 Higgins Road, Salt Creek	5/ 10	4/ 10	1/ 10	1/ 10	2/ 11	3/ 10	0/ 10	1/ 10	
80 Arlington Heights Road, Salt Creek	1/ 12	0/ 12	1/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	
18 Devon Avenue, Salt Creek	2/ 12	1/ 12	2/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	5/ 12	0/ 10	1/ 11	0/ 6	1/ 12	0/ 12	2/ 12	2/ 11	
21 First Avenue, Salt Creek	2/ 12	1/ 10	0/ 11	1/ 12	0/ 11	1/ 12	1/ 12	0/ 11	
77 Elmhurst Road, Higgins Creek	6/ 11	1/ 10	3/ 11	2/ 12	2/ 11	5/ 12	4/ 12	2/ 11	
78 Wille Road, Higgins Creek	1/ 12	0/ 12	0/ 11	1/ 12	0/ 12	1/ 12	2/ 12	1/ 11	
12 Lake-Cook Road, Buffalo Creek	3/ 11	4/ 10	3/ 11	0/ 11	0/ 11	3/ 12	0/ 12	2/ 10	
13 Lake-Cook Road, Des Plaines River	6/ 12	2/ 12	1/ 11	1/ 12	0/ 11	1/ 12	0/ 12	0/ 9	
17 Oakton Street, Des Plaines River	4/ 12	2/ 10	1/ 11	0/ 12	1/ 11	0/ 12	0/ 11	0/ 3	
19 Belmont Avenue, Des Plaines River	4/ 12	0/ 10	0/ 11	0/ 12	1/ 12	1/ 13	0/ 12	2/ 12	
20 Roosevelt Road, Des Plaines River	1/ 12	1/ 10	0/ 11	0/ 12	2/ 12	0/ 12	0/ 12	1/ 12	
22 Ogden Avenue, Des Plaines River	2/ 12	0/ 10	0/ 11	0/ 12	2/ 12	0/ 13	0/ 12	1/ 11	
23 Willow Springs Road, Des Plaines River	8/ 12	1/ 10	0/ 11	0/ 12	1/ 11	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	9/ 12	1/ 10	0/ 11	1/ 12	0/ 12	1/ 12	0/ 12	1/ 11	
91 Material Service Road, Des Plaines River	31/ 51	7/ 50	ND	ND	ND	ND	ND	ND	ND

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-25

SOLUBLE IRON VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	ND	ND	ND
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	ND	ND	ND
102 Oakton Street, North Shore Channel	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	ND	ND	ND
101 Foster Avenue, North Shore Channel	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	ND	ND	ND
73 Diversely Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	ND	ND	ND
100 Wells Street, Chicago River	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/ 11	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	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	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	1/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	ND	ND	ND
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	1/ 11	0/ 11	1/ 12	0/ 12	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	ND	ND	ND
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	1/ 12	0/ 12	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12	ND	ND	ND
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	1/ 12	0/ 12	ND	ND	ND
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	1/ 6	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	ND	ND	ND
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	ND	ND	ND
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	1/ 9	ND	ND	ND
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	ND	ND	ND
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND	ND
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND	ND
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND	ND
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	ND	ND	ND
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	ND	ND	ND
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND	ND
78 Wille Road, Higgins Creek	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	ND	ND	ND
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	ND	ND	ND
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	ND	ND	ND
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-26

TOTAL LEAD VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	1/ 2
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	2/ 10	0/ 10
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	1/ 10	0/ 11
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
15	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102	Oakton Street, North Shore Channel	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	1/ 12	0/ 11
101	Foster Avenue, North Shore Channel	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	1/ 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/ 11	0/ 12	0/ 7	0/ 12
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100	Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	0/ 10	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	1/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	1/ 51	2/ 52	0/ 48	0/ 51
92	Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	3/ 11	0/ 13	0/ 12
56	Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97	170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	1/ 12	0/ 11	0/ 12
59	Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11	0/ 13	0/ 12
43	Route 83, Cal-Sag Channel	1/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12
64	Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79	Higgins Road, Salt Creek	1/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	1/ 10	0/ 10
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18	Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12
24	Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21	First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 11
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	1/ 11	0/ 3
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	1/ 12	0/ 12
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	1/ 12	0/ 11
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91	Material Service Road, Des Plaines River	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 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	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/ 11
101 Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100 Wallis Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-28

TOTAL MANGANESE VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		01	00	99	98	97	96	95	94
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	1/ 2
106	Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	1/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104	Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105	Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96	Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102	Oakton Street, North Shore Channel	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/ 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	1/ 12	0/ 12	0/ 12	0/ 12
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 7	0/ 12
74	Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100	Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108	Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0/ 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	0/ 12	0/ 10	0/ 11	0/ 11
50	Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56	Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76	Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52	Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54	Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97	170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59	Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43	Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63	Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89	Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 12	0/ 12	0/ 12
64	Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79	Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	1/ 11	0/ 10	0/ 10	0/ 10
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18	Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24	Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21	First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77	Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12	Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	1/ 11	0/ 12	0/ 12	0/ 9
17	Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20	Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22	Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11
23	Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	1/ 11	0/ 11	0/ 11
29	Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91	Material Service Road, Des Plaines River	0/ 51	0/ 49	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-29

TOTAL MERCURY VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	01	00	99	98	97	96	95	94	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2	
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
12 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9	
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8	
102 Oakton Street, North Shore Channel	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/ 11	
101 Foster Avenue, North Shore Channel	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	1/ 11	0/ 12	0/ 7	0/ 12	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10	
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5	
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12	
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trebier, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	1/ 48	0/ 51	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 10	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	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/ 10	0/ 11	0/ 11	0/ 12	0/ 12	3/ 11	0/ 12	0/ 12	
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 10	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 4	0/ 11	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 9	0/ 11	
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 10	
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	1/ 6	0/ 12	0/ 10	0/ 12	
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	1/ 12	0/ 11	0/ 11	0/ 12	
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	1/ 11	0/ 9	0/ 11	0/ 10	0/ 11	
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	1/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11	
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11	
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND	

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-30

TOTAL ZINC VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	01	00	99	98	97	96	95	94
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 9	0/ 2
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8
102 Oakton Street, North Shore Channel	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/ 11
101 Foster Avenue, North Shore Channel	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/ 11	0/ 12	0/ 7	0/ 12
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	1/ 52	0/ 48	0/ 51
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 11
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 3
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11
91 Material Service Road, Des Plaines River	0/ 51	0/ 50	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-31

TOTAL SELENIUM VIOLATION HISTORY THROUGH 2001

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year								
	01	00	99	98	97	96	95	94	
<u>Chicago River System</u>									
30 Lake-Cook Road, West Fork North Branch	0/ 2	0/ 1	ND	ND	ND	0/ 4	0/ 8	0/ 2	
106 Dundee Road, West Fork North Branch Chicago River	0/ 5	ND	ND	ND	ND	ND	ND	ND	
103 Golf Road, West Fork North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
31 Lake-Cook Road, Middle Fork North Branch	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 10	0/ 10	
104 Glenview Road, North Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
32 Lake-Cook Road, Skokie River	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8	0/ 9	0/ 9	
105 Frontage Road, Skokie River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
34 Dempster Street, North Branch Chicago River	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12	0/ 10	0/ 11	
96 Albany Avenue, North Branch Chicago River	0/ 12	0/ 6	ND	ND	ND	ND	ND	ND	
35 Central Street, North Shore Channel	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9	0/ 8	0/ 8	
102 Oakton Street, North Shore Channel	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/ 11	
101 Foster Avenue, North Shore Channel	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 Diversay 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/ 11	0/ 12	0/ 7	0/ 12	
74 Lake Shore Drive, Chicago River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	0/ 10	0/ 10	
100 Wells Street, Chicago River	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/ 11	0/ 12	0/ 11	0/ 5	
108 Loomis Street, South Branch Chicago River	0/ 9	ND	ND	ND	ND	ND	ND	ND	
99 Archer Avenue, South Fork South Branch Chicago River	0/ 10	ND	ND	ND	ND	ND	ND	ND	
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12	0/ 9	0/ 12	
107 Western Avenue, Chicago Sanitary & Ship Canal	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/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11	
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	0/ 15	0/ 50	0/ 52	0/ 51	0/ 52	0/ 48	0/ 51	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	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/ 10	0/ 11	0/ 11	
50 Burnham Avenue, Wolf Lake	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
55 130th Street, Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 13	0/ 12	
56 Indiana Avenue, Little Calumet River	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10	0/ 11	0/ 11	
76 Halsted Street, Little Calumet River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4	0/ 12	0/ 12	
52 Wentworth Avenue, Little Calumet River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 10	0/ 11	
54 Joe Orr Road, Thorn Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
97 170th Street, Thorn Creek	0/ 10	ND	ND	ND	ND	ND	ND	ND	
57 Ashland Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9	0/ 11	0/ 10	
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12	0/ 11	0/ 12	
59 Cicero Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	
43 Route 83, Cal-Sag Channel	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
<u>Des Plaines River System</u>									
90 Route 19, Poplar Creek	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11	0/ 10	0/ 11	
63 Longmeadow Lane, West Branch Du Page River	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11	0/ 12	0/ 10	
89 Walnut Lane, West Branch Du Page River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
64 Lake Street, West Branch Du Page River	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	
79 Higgins Road, Salt Creek	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10	0/ 10	0/ 10	
80 Arlington Heights Road, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	
18 Devon Avenue, Salt Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
24 Wolf Road, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12	0/ 12	0/ 11	
21 First Avenue, Salt Creek	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	
77 Elmurst Road, Higgins Creek	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	
78 Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
12 Lake-Cook Road, Buffalo Creek	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10	
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 12	0/ 9	
17 Oakton Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 9	
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
20 Roosevelt Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	
22 Ogden Avenue, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13	0/ 12	0/ 11	
23 Willow Springs Road, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11	0/ 11	0/ 11	
29 Stephen Street, Des Plaines River	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	
91 Material Service Road, Des Plaines River	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 2001

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</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>91</u>
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	3.75
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	3.00	3.20
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	2.00	3.90
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	4.00	3.25
96	Albany Avenue, North Branch Chicago River	3.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	1.56	ND	ND	ND	ND	ND	ND	ND	ND	4.00	1.91
102	Oakton Street, North Shore Channel	2.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	6.90	ND	ND	ND	ND	ND	ND	ND	ND	14.00	5.17
101	Postar Avenue, North Shore Channel	4.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	4.10	ND	ND	ND	ND	ND	ND	ND	ND	8.00	4.75
73	Diversey Parkway, North Branch Chicago River	3.80	ND	ND	ND	ND	ND	ND	ND	ND	4.00	3.50
46	Grand Avenue, North Branch Chicago River	4.00	ND	ND	ND	ND	ND	ND	ND	ND	6.00	3.00
74	Lake Shore Drive, Chicago River	0.80	ND	ND	ND	ND	ND	ND	ND	ND	4.00	2.08
100	Wells Street, Chicago River	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	2.50	ND	ND	ND	ND	ND	ND	ND	ND	5.00	3.17
108	Loomis Street, South Branch Chicago River	1.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	4.80	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	8.00	2.75
107	Western Avenue, Chicago Sanitary & Ship Canal	4.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	2.20	ND	ND	ND	ND	ND	ND	ND	ND	4.00	2.50
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2.90	ND	ND	ND	ND	ND	ND	ND	ND	7.00	3.25
42	Route 83, Chicago Sanitary & Ship Canal	2.90	ND	ND	ND	ND	ND	ND	ND	ND	4.00	2.75
48	Stephen Street, Chicago Sanitary & Ship Canal	1.67	ND	ND	ND	ND	ND	ND	ND	ND	7.00	3.58
82	Lockport Trail, Chicago Sanitary & Ship Canal	ND	6.60	6.20	5.29	7.10	6.19	4.41	4.77	4.76	5.04	4.74
92	Lockport Forebay, Chicago Sanitary & Ship Canal	2.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.60	ND	ND	ND	ND	ND	ND	ND	ND	7.00	3.91
55	130th Street, Calumet River	0.60	ND	ND	ND	ND	ND	ND	ND	ND	5.00	3.40
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	4.50	ND	ND	ND	ND	ND	ND	ND	ND	7.00	7.82
56	Indians Avenue, Little Calumet River	2.75	ND	ND	ND	ND	ND	ND	ND	ND	6.00	4.00
76	Haisted Street, Little Calumet River	2.90	ND	ND	ND	ND	ND	ND	ND	ND	7.00	5.55
52	Wentworth Avenue, Little Calumet River	3.00	ND	ND	ND	ND	ND	ND	ND	ND	6.00	5.64
54	Joe Orr Road, Thorn Creek	2.00	ND	ND	ND	ND	ND	ND	ND	ND	12.00	3.82
97	178th Street, Thorn Creek	3.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	3.33	ND	ND	ND	ND	ND	ND	ND	ND	4.00	4.50
58	Ashland Avenue, Cal-Sag Channel	2.50	ND	ND	ND	ND	ND	ND	ND	ND	6.00	4.82
59	Cicero Avenue, Cal-Sag Channel	2.30	ND	ND	ND	ND	ND	ND	ND	ND	6.00	5.18
43	Route 83, Cal-Sag Channel	2.30	ND	ND	ND	ND	ND	ND	ND	ND	7.00	4.55
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.64
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.00	4.09
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	3.25
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.00	6.75
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.20
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	2.58
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	2.25
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	4.83
21	First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.00	4.83
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.00	5.36
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	3.55
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	3.50
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	2.42
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.42
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	6.42
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.00	6.45
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.00	5.75
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	5.83
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	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

DISSOLVED OXYGEN MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	10.75	10.50	ND	ND	ND	8.73	7.51	9.35	6.17	7.54	8.16
105 Dundas Road, West Fork North Branch Chicago River	9.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	6.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.91	6.99	6.72	6.56	7.44	6.51	5.74	6.04	6.88	6.90	6.48
104 Glenview Road, North Branch Chicago River	7.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.65	7.25	6.59	7.56	7.49	7.91	6.63	6.11	7.41	7.40	7.10
105 Frontage Road, Skokie River	7.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.29	7.50	7.93	8.04	8.18	8.45	6.88	7.66	7.13	7.83	7.75
96 Albany Avenue, North Branch Chicago River	7.42	6.80	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	8.03	7.48	7.51	7.20	9.69	6.36	8.18	9.20	8.23	9.47	10.05
102 Oakton Street, North Shore Channel	5.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.39	7.24	7.43	7.31	7.85	7.38	6.45	7.58	7.65	7.39	8.21
101 Foster Avenue, North Shore Channel	6.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.13	6.68	6.75	7.04	7.36	6.82	6.37	6.65	7.29	7.43	7.76
73 Diversary Parkway, North Branch Chicago River	6.18	5.84	5.81	6.05	6.36	6.27	6.08	6.67	6.58	6.96	6.92
46 Grand Avenue, North Branch Chicago River	6.00	6.13	6.53	6.35	5.92	6.95	6.93	5.68	5.65	5.83	5.87
74 Lake Shore Drive, Chicago River	7.99	8.04	9.26	9.36	9.79	10.15	9.93	9.68	9.76	9.17	10.03
100 Wells Street, Chicago River	7.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	6.32	6.67	6.89	7.38	7.82	8.75	8.02	8.30	7.93	7.82	7.56
108 Loomis Street, South Branch Chicago River	5.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	2.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	5.43	6.19	7.00	7.48	8.21	7.08	7.65	6.63	7.39	6.99
107 Western Avenue, Chicago Sanitary & Ship Canal	5.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.28	4.98	5.99	6.21	7.16	6.85	7.00	6.81	5.88	6.64	6.43
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.60	6.52	7.16	7.13	6.96	7.16	6.97	7.20	6.23	6.84	6.80
42 Route 83, Chicago Sanitary & Ship Canal	5.46	5.46	5.76	5.90	6.23	6.35	6.10	6.10	5.66	6.43	6.05
88 Stephen Street, Chicago Sanitary & Ship Canal	5.38	5.40	5.63	6.03	6.07	6.40	5.84	5.80	5.27	5.42	5.05
42 Lockport Trail, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.34	5.65	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	8.99	9.44	9.82	9.36	10.17	9.53	9.99	8.45	10.56	9.63	ND
50 Burnham Avenue, Wolf Lake	8.70	9.33	9.45	9.25	9.73	10.25	9.56	8.59	9.92	9.69	9.61
55 130th Street, Calumet River	8.41	8.43	8.97	8.56	8.95	8.97	9.92	9.05	9.63	8.16	8.39
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	4.19	4.43	5.14	5.63	5.25	3.19	3.55	2.50	3.27	3.16	4.26
56 Indiana Avenue, Little Calumet River	8.59	8.20	8.48	7.84	8.16	8.72	8.00	6.59	7.34	8.38	7.60
76 Halsted Street, Little Calumet River	6.69	6.60	6.69	6.60	6.53	7.35	6.29	6.09	5.64	6.31	6.04
52 Westworth Avenue, Little Calumet River	6.20	6.52	6.23	6.91	6.47	6.08	6.43	6.01	7.43	6.43	7.13
54 Joe Orr Road, Thorn Creek	8.27	8.28	8.85	8.61	8.03	8.36	8.58	8.33	7.72	8.18	8.63
97 170th Street, Thorn Creek	7.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5.75	6.28	5.80	6.34	6.08	5.56	6.77	6.25	6.03	6.70	7.10
58 Ashland Avenue, Cal-Sag Channel	6.41	6.37	6.21	5.61	6.66	6.31	5.85	6.34	6.18	6.25	6.50
59 Cicero Avenue, Cal-Sag Channel	5.93	6.35	6.12	6.04	6.44	6.26	6.29	5.81	6.68	5.91	5.45
43 Route 83, Cal-Sag Channel	6.04	6.17	5.95	5.64	6.04	5.83	5.24	5.99	5.64	5.64	4.95
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	9.52	7.91	10.15	8.40	9.26	9.09	9.71	10.03	8.67	9.88	9.66
63 Longmeadow Lane, West Branch Du Page River	8.18	7.50	10.04	8.36	9.38	7.76	9.29	8.62	8.76	8.33	8.63
89 Walnut Lane, West Branch Du Page River	6.82	7.01	8.20	7.33	8.22	7.61	8.43	8.52	7.63	8.58	9.09
64 Lake Street, West Branch Du Page River	8.25	7.79	8.74	7.79	7.71	7.37	8.47	9.10	8.49	9.23	8.68
79 Higgins Road, Salt Creek	8.88	7.09	9.07	7.77	8.94	7.35	9.28	8.34	7.65	9.31	8.51
80 Arlington Heights Road, Salt Creek	8.29	7.79	7.97	7.31	8.43	7.74	8.42	8.27	8.56	8.80	8.83
18 Devon Avenue, Salt Creek	8.24	7.78	7.93	7.66	8.98	7.26	8.85	8.30	8.64	9.58	9.36
24 Wolf Road, Salt Creek	8.50	7.74	9.04	9.70	9.73	8.89	8.94	9.32	9.63	9.73	8.77
21 First Avenue, Salt Creek	7.98	6.72	7.65	6.48	7.07	7.08	7.49	7.63	7.42	8.11	8.10
77 Elmhurst Road, Higgins Creek	8.42	7.71	9.39	7.97	9.23	7.95	8.28	8.75	9.94	9.06	8.46
78 Wille Road, Higgins Creek	8.93	8.43	8.61	7.80	8.97	8.26	8.36	8.87	8.86	8.56	8.63
12 Lake-Cook Road, Buffalo Creek	9.93	7.97	8.60	8.47	8.63	8.50	10.18	8.85	9.42	10.28	8.81
13 Lake-Cook Road, Des Plaines River	9.02	8.04	8.46	8.01	8.55	7.06	8.86	8.97	8.15	8.58	9.01
17 Oakton Street, Des Plaines River	9.00	7.66	8.32	8.11	8.49	7.94	8.14	8.50	8.33	8.27	8.33
19 Belmont Avenue, Des Plaines River	8.59	6.41	7.26	6.58	8.26	7.18	7.38	6.38	7.14	7.70	7.58
20 Roosevelt Road, Des Plaines River	8.31	6.44	7.24	6.44	8.05	7.28	7.63	7.28	7.53	8.28	6.64
22 Ogden Avenue, Des Plaines River	9.20	7.72	8.43	8.40	9.18	8.25	8.61	8.21	8.55	9.26	8.25
23 Willow Springs Road, Des Plaines River	9.44	7.65	8.68	8.41	9.14	8.42	8.85	9.06	7.93	8.89	7.68
29 Stephen Street, Des Plaines River	9.98	7.81	9.15	9.11	9.74	8.82	8.43	9.78	8.12	9.54	9.28
91 Material Service Road, Des Plaines River	8.71	8.42	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 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	26.3	31.5	38.2	32.8	44.0
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	21.0	33.3	33.8	28.5	33.8
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	23.7	33.3	29.9	27.7	33.2
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	17.5	48.8	25.6	26.3	26.9
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	8.7	12.5	12.4	11.7	13.0
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	23.8	27.8	22.4	22.8	27.5
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	26.6	26.0	21.4	22.3	24.8
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	16.4	24.7	22.3	20.0	28.0
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	24.0	25.0	21.3	22.0	25.7
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	5.8	10.4	13.4	9.8	12.1
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	19.8	15.8	15.8	17.9	22.9
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 Danen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	31.7	20.7	16.1	18.0	19.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	17.2	22.0	18.8	16.8	20.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	18.4	26.3	21.6	25.4	23.4
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	16.8	26.5	20.4	20.8	22.7
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	29.8	26.7	25.3	27.6	29.6
82 Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	22.3	28.4	26.7	23.9	23.8
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	9.6	10.2	9.7	14.9	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	14.3	23.9	19.2	19.7	23.6
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	12.8	13.6	13.8	13.0	21.5
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	49.3	59.9	60.7	90.4	51.5
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	26.0	25.8	28.2	20.0	31.6
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	29.2	29.3	27.6	30.0	37.8
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	27.5	37.2	37.9	35.1	45.0
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	27.0	33.9	34.5	27.0	33.8
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	27.4	33.8	32.1	31.1	64.8
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	31.6	30.6	29.2	30.9	42.3
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	32.0	31.1	31.4	27.6	38.3
43 Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	31.3	31.5	33.4	26.2	42.4
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	35.8	33.3	33.8	27.7	35.5
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	62.5	40.7	40.3	36.1	38.1
89 Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	ND	ND	54.0	40.9	34.8	35.6	36.0
64 Lake Street, West Branch Du Page River	ND	ND	ND	ND	ND	ND	51.0	44.4	41.8	35.1	42.9
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	38.6	40.8	34.1	30.6	31.3
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	28.5	29.9	25.0	27.8	27.9
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	30.8	35.4	29.1	27.9	25.4
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	33.8	39.2	32.0	31.6	37.0
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	31.0	37.7	36.8	30.3	35.5
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	39.8	57.4	33.8	35.2	37.3
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	37.2	35.1	29.1	29.3	28.1
32 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	34.3	37.5	37.4	30.7	35.4
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	28.0	36.3	32.2	29.4	34.8
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	36.5	34.0	30.0	34.3	37.2
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	45.0	45.4	32.3	34.2	40.8
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	31.7	40.0	30.9	37.0	35.3
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	31.2	42.2	34.3	32.5	35.8
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	30.7	40.4	30.0	32.6	36.5
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	35.2	44.4	36.0	36.6	38.6
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

TEMPERATURE MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (°C)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	4.1	1.1	ND	ND	ND	15.0	16.3	21.1	14.1	14.3	14.3
106 Dundee Road, West Fork North Branch Chicago River	16.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	14.2	15.5	13.9	12.2	11.6	13.4	12.8	13.3	11.7	12.9	13.6
104 Glenview Road, North Branch Chicago River	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	14.4	15.5	14.0	11.9	12.1	13.1	14.9	15.6	12.1	13.5	14.8
105 Frontage Road, Skokie River	16.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	14.2	15.3	14.5	13.2	12.4	10.9	14.0	13.6	12.7	12.7	13.4
96 Albany Avenue, North Branch Chicago River	15.3	16.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	15.3	18.0	15.9	16.2	13.0	13.9	15.0	16.2	11.8	12.4	12.2
102 Oakton Street, North Shore Channel	16.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	16.9	15.8	16.9	15.8	12.8	14.7	14.2	15.2	15.1	14.9	15.4
101 Foster Avenue, North Shore Channel	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	15.1	14.9	16.0	15.2	12.4	13.7	13.0	14.6	10.6	14.9	14.4
73 Diversy Parkway, North Branch Chicago River	15.3	15.4	16.5	15.4	12.4	13.7	13.5	15.1	14.8	15.1	14.0
46 Grand Avenue, North Branch Chicago River	15.6	14.4	15.1	15.0	14.6	12.1	8.8	14.5	12.2	14.0	15.1
74 Lake Shore Drive, Chicago River	14.0	13.8	14.9	13.3	11.5	10.6	12.4	13.6	9.7	11.4	10.7
100 Wells Street, Chicago River	16.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	15.0	14.7	14.7	13.8	12.1	10.8	12.2	10.9	11.1	12.7	12.3
108 Loomis Street, South Branch Chicago River	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	18.3	16.8	15.4	13.3	11.6	14.9	13.8	12.8	13.1	13.8
107 Western Avenue, Chicago Sanitary & Ship Canal	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.1	18.7	15.6	18.0	12.5	13.9	14.1	14.3	14.5	13.7	14.9
41 Harlem Avenue, Chicago Sanitary & Ship Canal	17.1	17.0	17.9	16.7	13.9	13.5	13.7	15.1	13.6	14.1	15.3
42 Route 83, Chicago Sanitary & Ship Canal	16.9	19.1	18.0	17.2	15.0	14.7	14.8	14.5	14.5	14.7	15.8
48 Stephen Street, Chicago Sanitary & Ship Canal	16.9	18.3	18.5	16.6	14.6	14.2	14.4	14.9	13.1	14.5	15.8
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	18.3	19.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	13.0	13.4	13.5	14.8	12.6	13.3	13.1	13.3	12.7	13.1	ND
50 Burnham Avenue, Wolf Lake	14.1	13.5	13.6	15.0	12.4	12.5	13.1	14.0	12.7	13.8	13.6
55 130th Street, Calumet River	15.1	14.8	15.7	15.5	13.3	14.8	15.3	14.6	12.6	11.8	14.7
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	15.5	15.1	15.3	15.6	13.7	13.9	14.3	15.4	14.3	14.5	13.6
56 Indiana Avenue, Little Calumet River	17.8	15.2	15.7	16.7	14.1	14.7	14.4	15.2	13.3	14.1	14.8
76 Halsted Street, Little Calumet River	15.0	16.2	16.5	16.4	13.6	4.3	14.9	14.5	14.8	15.5	13.9
52 Wentworth Avenue, Little Calumet River	13.9	14.6	15.3	14.3	11.9	14.7	14.7	14.3	12.5	12.7	11.9
54 Joe Orr Road, Thorn Creek	15.9	17.1	15.0	15.8	13.2	14.0	15.4	14.7	15.2	16.4	13.7
97 170th Street, Thorn Creek	15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	15.7	15.6	16.0	14.6	11.2	15.2	13.6	15.5	13.5	13.9	13.1
58 Ashland Avenue, Cal-Sag Channel	14.7	15.7	16.7	19.1	14.1	13.6	15.5	13.7	13.8	14.4	12.9
59 Cicero Avenue, Cal-Sag Channel	14.5	15.5	16.6	16.0	13.1	14.4	13.9	14.1	13.8	14.6	12.6
43 Route 83, Cal-Sag Channel	14.2	15.5	16.5	15.5	14.0	14.9	13.5	13.3	14.2	14.2	13.5
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	14.0	17.7	13.1	17.1	14.6	13.7	15.3	13.2	13.1	13.3	18.4
63 Longmeadow Lane, West Branch Du Page River	11.3	16.2	13.9	17.8	10.6	13.4	13.2	15.4	12.5	12.6	17.5
89 Walnut Lane, West Branch Du Page River	15.8	15.2	16.1	18.3	15.1	14.3	15.5	14.0	14.3	15.0	17.2
64 Lake Street, West Branch Du Page River	16.0	15.5	14.7	17.9	13.9	14.7	14.1	14.8	15.0	14.3	16.5
79 Higgins Road, Salt Creek	16.8	15.9	14.4	19.1	14.2	14.5	16.1	16.1	14.1	12.8	17.9
80 Arlington Heights Road, Salt Creek	14.5	14.2	15.2	17.6	14.2	15.2	14.4	12.7	14.1	14.0	16.7
18 Devon Avenue, Salt Creek	14.5	14.5	14.8	17.5	13.5	14.8	14.7	15.0	14.6	15.8	16.8
24 Wolf Road, Salt Creek	13.8	16.3	14.8	9.9	9.6	14.2	13.9	14.3	13.6	12.7	14.3
21 First Avenue, Salt Creek	13.5	15.3	13.5	14.8	11.6	13.5	12.5	13.0	12.1	10.7	12.4
77 Elmhurst Road, Higgins Creek	14.5	15.2	14.0	15.3	9.2	12.3	12.7	13.1	13.2	13.2	13.5
78 Wille Road, Higgins Creek	15.6	16.3	16.1	17.3	11.5	15.3	15.4	15.4	14.7	14.6	15.7
12 Lake-Cook Road, Buffalo Creek	13.4	15.4	12.9	16.9	12.1	13.2	14.6	15.7	13.1	11.4	14.4
13 Lake-Cook Road, Des Plaines River	13.3	13.3	12.9	15.7	11.6	13.8	13.1	12.7	12.3	12.4	15.3
17 Oakton Street, Des Plaines River	13.5	15.1	13.8	15.1	10.0	13.3	13.6	2.1	12.8	12.4	13.0
19 Belmont Avenue, Des Plaines River	13.5	15.1	13.7	15.3	10.7	13.4	13.0	12.8	12.7	11.8	13.4
20 Roosevelt Road, Des Plaines River	13.8	15.0	13.3	15.2	10.6	13.5	12.4	12.5	13.2	11.5	13.6
22 Ogden Avenue, Des Plaines River	13.9	15.5	14.1	14.8	11.2	14.6	13.1	14.3	13.0	13.2	13.0
23 Willow Springs Road, Des Plaines River	13.6	16.1	14.8	16.2	10.0	14.2	13.8	14.1	13.3	12.7	14.4
29 Stephen Street, Des Plaines River	14.2	16.6	14.9	16.7	9.0	14.5	13.5	14.7	13.6	12.9	15.0
91 Material Service Road, Des Plaines River	16.2	15.1	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-36

PH MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	7.50	8.00	ND	ND	ND	7.94	8.01	7.86	7.37	7.45	7.75
106 Dundee Road, West Fork North Branch Chicago River	7.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.60	7.79	7.87	7.77	6.75	7.93	8.04	7.61	7.58	7.38	7.87
104 Glenview Road, North Branch Chicago River	7.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.61	7.95	7.96	7.82	6.67	7.94	8.10	7.55	7.36	7.50	7.82
105 Frontage Road, Skokie River	7.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.62	7.78	7.84	7.72	6.79	7.73	7.88	7.39	7.38	7.44	8.11
96 Albany Avenue, North Branch Chicago River	7.40	7.65	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	7.77	8.31	8.12	8.24	7.03	8.07	8.37	8.05	7.95	7.88	8.32
102 Oakton Street, North Shore Channel	7.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.19	7.63	7.56	7.70	6.95	7.59	7.64	7.47	7.51	7.62	7.94
101 Foster Avenue, North Shore Channel	7.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.29	7.67	7.58	7.68	6.99	7.71	7.38	7.03	7.21	7.49	7.88
73 Diversway Parkway, North Branch Chicago River	7.12	7.59	7.41	7.84	7.16	7.94	7.24	7.28	7.54	7.18	7.82
46 Grand Avenue, North Branch Chicago River	7.09	7.60	7.74	7.82	6.48	7.55	7.60	7.53	7.56	7.17	7.49
74 Lake Shore Drive, Chicago River	7.95	7.70	8.09	8.15	7.96	7.88	7.53	8.08	8.02	7.65	7.55
100 Wells Street, Chicago River	7.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.39	7.54	7.89	7.89	7.75	7.52	7.38	7.65	7.69	7.34	7.79
108 Loomis Street, South Branch Chicago River	7.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	7.45	7.72	8.06	7.48	7.68	7.27	7.89	7.60	7.53	7.55
107 Western Avenue, Chicago Sanitary & Ship Canal	7.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.23	7.27	7.85	8.02	7.90	7.82	7.24	7.61	7.21	7.18	7.24
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.19	7.42	7.67	7.97	7.44	7.38	7.10	7.49	7.38	7.34	7.34
42 Route 83, Chicago Sanitary & Ship Canal	7.13	7.32	7.71	7.98	7.54	7.51	7.33	7.53	7.44	7.33	7.42
48 Stephen Street, Chicago Sanitary & Ship Canal	7.23	7.48	7.62	7.97	7.58	7.49	7.48	7.54	7.54	7.29	7.37
82 Lockport Trestle, Chicago Sanitary & Ship Canal	ND	7.75	7.61	7.65	7.80	7.64	7.45	7.72	7.40	7.52	7.83
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.11	7.28	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	7.47	7.96	8.19	8.25	7.88	8.00	7.66	7.86	7.70	7.44	ND
50 Burnham Avenue, Wolf Lake	7.76	8.06	8.29	8.34	7.93	8.31	8.12	7.72	7.65	7.83	7.76
55 130th Street, Calumet River	7.41	7.72	8.21	8.12	7.91	8.35	8.27	7.87	7.36	7.53	7.68
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	7.39	7.74	7.79	7.94	7.47	8.02	7.55	7.22	7.50	7.37	7.45
56 Indiana Avenue, Little Calumet River	7.79	7.73	8.10	8.03	7.75	8.32	8.16	7.32	7.19	7.16	7.57
76 Halsted Street, Little Calumet River	7.21	7.47	7.82	7.56	7.49	7.12	7.66	7.55	7.38	7.51	7.64
52 Wentworth Avenue, Little Calumet River	7.31	7.84	7.95	8.09	7.70	8.65	7.98	7.58	7.53	7.60	7.88
54 Joe Orr Road, Thorn Creek	7.12	7.51	8.10	7.53	7.07	7.51	7.65	7.34	7.44	7.68	7.56
97 170th Street, Thorn Creek	7.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.20	7.41	7.91	7.65	7.03	7.29	7.61	7.42	7.53	7.38	7.65
58 Ashland Avenue, Cal-Sag Channel	7.26	7.31	7.78	7.92	7.78	7.27	7.68	7.58	7.44	7.48	7.57
59 Cicero Avenue, Cal-Sag Channel	7.19	7.17	7.79	7.74	7.43	7.45	7.54	7.37	7.46	7.27	7.48
43 Route 83, Cal-Sag Channel	7.16	7.17	7.72	7.74	7.63	7.39	7.26	7.36	7.30	6.94	7.39
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	7.54	8.08	8.16	8.17	7.93	7.94	8.00	7.90	7.73	7.73	8.18
63 Longmeadow Lane, West Branch Du Page River	7.43	7.95	7.90	8.13	7.66	7.94	7.95	7.81	7.46	7.63	7.88
89 Walnut Lane, West Branch Du Page River	7.42	8.13	7.89	7.90	7.67	7.92	7.85	7.76	7.54	7.53	7.71
64 Lake Street, West Branch Du Page River	7.50	8.30	7.71	8.06	7.88	8.06	7.87	7.82	7.63	7.62	7.84
79 Higgins Road, Salt Creek	7.50	8.16	8.24	8.29	8.09	7.73	8.11	7.65	7.85	7.59	8.24
80 Arlington Heights Road, Salt Creek	7.44	8.16	7.87	7.97	7.94	7.75	8.00	7.83	7.91	7.52	7.85
18 Devon Avenue, Salt Creek	7.58	8.03	7.85	7.87	7.82	7.73	7.89	7.35	7.56	7.52	7.78
24 Wolf Road, Salt Creek	7.63	7.78	8.05	7.91	6.77	7.73	8.18	7.92	6.63	7.93	7.57
21 First Avenue, Salt Creek	7.43	7.40	7.68	7.65	7.65	7.87	7.64	7.64	6.94	7.32	7.28
77 Elmhurst Road, Higgins Creek	7.65	7.81	8.02	7.75	6.87	7.84	8.07	7.63	7.08	7.79	7.62
78 Wille Road, Higgins Creek	7.72	7.60	7.77	7.75	6.66	7.81	8.13	7.77	6.96	7.68	7.64
12 Lake-Cook Road, Buffalo Creek	7.70	7.85	7.75	7.87	7.81	7.63	7.85	7.02	7.71	7.21	7.85
13 Lake-Cook Road, Des Plaines River	7.68	7.92	7.80	7.93	7.92	8.02	7.73	7.36	7.71	7.19	7.45
17 Oakton Street, Des Plaines River	7.69	7.75	7.89	7.78	7.92	8.00	8.18	8.09	6.96	7.68	7.44
19 Belmont Avenue, Des Plaines River	7.65	7.64	7.78	7.74	8.05	8.09	7.91	7.81	6.93	7.58	7.46
20 Roosevelt Road, Des Plaines River	7.59	7.68	7.77	7.70	7.78	7.93	7.92	7.61	7.03	7.53	7.54
22 Ogden Avenue, Des Plaines River	7.55	7.12	7.43	7.65	7.95	7.88	7.43	7.52	7.23	7.02	7.18
23 Willow Springs Road, Des Plaines River	7.66	7.83	8.13	7.87	6.47	7.95	8.26	8.07	6.63	7.79	7.61
29 Stephen Street, Des Plaines River	7.71	7.82	8.12	7.96	6.74	8.02	8.41	8.17	6.72	7.52	7.77
91 Material Service Road, Des Plaines River	7.40	7.65	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-37

CHLORIDE MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	856	847	ND	ND	ND	198	182	116	247	152	156
106 Dundas Road, West Fork North Branch Chicago River	371	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	227	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	203	217	177	180	211	198	199	164	133	136	113
104 Glenview Road, North Branch Chicago River	177	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	218	242	185	183	250	215	172	167	165	163	138
105 Frontage Road, Skokie River	167	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	249	269	199	182	263	260	184	228	163	168	186
96 Albany Avenue, North Branch Chicago River	228	163	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	16	60	43	34	23	49	22	14	76	13	11
102 Oakton Street, North Shore Channel	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	152	150	154	110	116	115	149	125	84	66	87
101 Foster Avenue, North Shore Channel	121	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	192	202	193	133	178	139	178	130	203	81	100
73 Diversay Parkway, North Branch Chicago River	199	190	188	129	184	143	149	126	150	84	116
46 Grand Avenue, North Branch Chicago River	191	148	153	150	133	161	167	133	110	92	107
74 Lake Shore Drive, Chicago River	98	81	53	64	28	27	31	23	82	24	21
100 Wells Street, Chicago River	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	179	126	113	108	78	86	88	69	88	60	78
108 Loomis Street, South Branch Chicago River	96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	134	107	136	98	122	84	99	94	83	79
107 Western Avenue, Chicago Sanitary & Ship Canal	138	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	148	124	106	149	105	114	114	98	120	58	82
41 Harlem Avenue, Chicago Sanitary & Ship Canal	170	166	155	143	137	130	136	136	107	75	108
42 Route 83, Chicago Sanitary & Ship Canal	203	139	171	147	157	145	138	137	107	84	146
48 Stephen Street, Chicago Sanitary & Ship Canal	202	126	139	149	155	158	132	137	130	98	152
82 Lockport Trestler, Chicago Sanitary & Ship Canal	ND	225	151	134	153	124	155	152	153	122	149
92 Lockport Forebay, Chicago Sanitary & Ship Canal	187	179	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	59	51	42	31	23	24	27	27	35	62	ND
50 Burnham Avenue, Wolf Lake	45	32	30	30	35	31	34	40	38	14	44
59 130th Street, Calumet River	93	74	67	53	57	57	58	55	74	66	89
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	180	177	198	192	190	267	259	222	178	203	181
56 Indiana Avenue, Little Calumet River	95	103	95	99	100	86	92	96	117	105	114
76 Halsted Street, Little Calumet River	162	150	139	122	136	163	132	127	138	105	137
52 Wentworth Avenue, Little Calumet River	137	155	143	109	136	119	128	151	136	163	114
54 Joe Orr Road, Thorn Creek	187	162	156	152	171	187	168	175	154	156	149
97 170th Street, Thorn Creek	163	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	168	190	171	139	185	151	164	132	131	150	128
58 Ashland Avenue, Cal-Sag Channel	167	164	131	101	191	135	131	129	159	109	114
59 Cicero Avenue, Cal-Sag Channel	167	168	136	136	166	139	132	129	145	114	101
43 Route 83, Cal-Sag Channel	179	168	130	135	143	145	126	153	156	117	103
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	229	143	157	199	197	209	175	156	139	147	132
63 Longmeadow Lane, West Branch Du Page River	283	189	257	220	221	388	315	217	586	249	185
89 Walnut Lane, West Branch Du Page River	171	153	127	131	142	199	167	157	188	154	151
64 Lake Street, West Branch Du Page River	198	160	133	152	166	198	191	160	231	162	157
79 Higgins Road, Salt Creek	327	278	218	201	290	323	288	289	244	236	182
80 Arlington Heights Road, Salt Creek	234	219	177	178	235	256	195	212	198	197	198
18 Devon Avenue, Salt Creek	247	223	178	188	271	250	200	192	216	201	197
24 Wolf Road, Salt Creek	268	220	186	267	231	263	239	210	221	228	243
21 First Avenue, Salt Creek	260	213	184	216	214	253	241	204	221	244	241
77 Elmhurst Road, Higgins Creek	479	336	294	364	348	378	354	515	355	363	182
78 Wills Road, Higgins Creek	221	191	168	193	234	215	190	161	153	172	159
12 Lake-Cook Road, Buffalo Creek	302	194	153	174	207	240	197	206	223	205	185
13 Lake-Cook Road, Des Plaines River	158	152	184	151	154	171	145	148	105	124	131
17 Oakton Street, Des Plaines River	182	141	137	151	167	194	155	147	128	134	147
19 Belmont Avenue, Des Plaines River	188	153	146	160	187	203	182	207	161	166	150
20 Roosevelt Road, Des Plaines River	190	157	146	160	193	200	180	184	159	242	157
22 Ogden Avenue, Des Plaines River	205	170	153	172	214	206	197	162	157	202	178
23 Willow Springs Road, Des Plaines River	204	177	160	178	191	201	178	166	149	182	186
29 Stephen Street, Des Plaines River	199	175	157	183	232	222	193	166	155	166	186
31 Material Service Road, Des Plaines River	198	202	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-38

TURBIDITY MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (NTU)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	25.5	81.0	ND	ND	ND	47.0	27.8	24.5	31.0	32.8	74.3
106 Dundee Road, West Fork North Branch Chicago River	24.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 GOLF Road, West Fork North Branch Chicago River	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	22.3	16.8	19.7	14.6	18.3	24.6	24.7	19.4	35.7	22.5	50.2
104 Glenview Road, North Branch Chicago River	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	15.6	13.0	17.6	13.4	12.2	18.5	22.7	14.3	26.6	21.5	33.3
105 Frontage Road, Skokie River	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	18.1	18.5	20.2	21.2	20.2	18.3	23.3	17.3	25.8	28.3	20.7
96 Albany Avenue, North Branch Chicago River	13.3	11.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	10.3	11.8	9.1	8.7	10.3	10.8	12.6	9.5	13.0	13.0	17.2
102 Oakton Street, North Shore Channel	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	6.7	8.1	7.5	6.8	7.0	8.4	9.1	8.7	5.8	9.3	8.5
101 Foster Avenue, North Shore Channel	8.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	13.4	9.7	10.1	8.7	9.5	10.2	10.3	10.2	8.1	9.2	12.4
73 Diversey Parkway, North Branch Chicago River	11.8	10.1	11.7	11.3	9.1	13.8	12.0	9.3	10.8	9.1	8.6
46 Grand Avenue, North Branch Chicago River	12.0	12.6	12.7	10.8	9.9	12.7	11.9	10.2	10.9	10.3	10.0
74 Lake Shore Drive, Chicago River	5.9	8.3	7.0	6.8	8.5	8.7	8.8	8.6	12.1	7.3	8.7
100 Wells Street, Chicago River	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	12.5	10.5	11.2	10.3	10.5	10.1	12.6	11.0	10.3	8.2	10.3
108 Loomis Street, South Branch Chicago River	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	12.7	11.2	10.6	11.2	11.4	18.1	9.5	10.3	11.5	13.5
107 Western Avenue, Chicago Sanitary & Ship Canal	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	13.6	12.8	13.8	10.8	11.8	11.1	11.8	11.0	10.1	11.2	12.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	8.5	9.3	9.7	7.2	8.9	8.8	9.5	12.2	7.3	6.9	7.8
42 Route 83, Chicago Sanitary & Ship Canal	8.0	8.2	7.8	9.5	8.3	7.7	10.2	10.1	6.3	7.4	7.3
48 Stephen Street, Chicago Sanitary & Ship Canal	10.4	11.1	9.4	11.7	11.9	13.2	16.8	11.8	10.3	15.7	12.4
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	11.4	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	9.8	10.6	9.8	9.8	9.5	10.5	10.5	9.1	7.3	8.0	ND
50 Burnham Avenue, Wolf Lake	6.6	6.4	5.8	7.4	6.8	6.7	7.0	12.1	6.8	6.1	7.3
55 130th Street, Calumet River	10.8	13.5	8.0	9.4	10.7	9.7	10.5	12.1	7.4	5.7	13.5
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	10.0	12.5	11.1	8.4	10.5	35.5	18.5	14.6	16.1	7.8	10.8
56 Indiana Avenue, Little Calumet River	17.9	15.8	14.7	13.0	17.5	27.1	25.0	27.5	24.9	19.5	28.5
76 Halsted Street, Little Calumet River	11.1	10.3	8.8	11.2	15.2	16.0	14.8	18.8	14.0	11.2	15.4
52 Wentworth Avenue, Little Calumet River	24.7	33.0	30.1	30.6	43.8	41.9	18.1	50.1	46.6	28.9	119.7
54 Joe Orr Road, Thorn Creek	10.3	22.0	10.4	14.8	14.5	12.8	9.5	16.0	36.5	6.2	24.7
97 170th Street, Thorn Creek	27.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	26.2	21.3	22.5	37.8	34.3	24.1	19.2	27.7	37.5	19.7	109.3
58 Ashland Avenue, Cal-Sag Channel	14.8	13.3	13.8	12.9	26.2	20.6	18.3	19.4	23.8	13.5	72.3
59 Cicero Avenue, Cal-Sag Channel	15.2	13.3	14.8	16.4	21.1	25.8	22.8	22.0	22.7	16.6	76.3
43 Route 83, Cal-Sag Channel	22.0	18.5	15.4	17.1	26.4	29.8	21.3	23.9	31.9	19.6	62.2
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	13.2	18.6	16.2	11.8	40.0	105.5	20.2	17.4	16.1	16.4	24.7
63 Longmeadow Lane, West Branch Du Page River	20.3	21.8	17.7	14.6	21.3	39.5	43.9	17.9	25.0	16.1	22.5
89 Walnut Lane, West Branch Du Page River	9.0	13.5	12.4	7.0	11.4	26.8	29.8	12.7	16.5	13.8	15.6
64 Lake Street, West Branch Du Page River	21.3	27.6	22.0	19.7	25.8	38.5	30.2	24.4	27.4	20.3	28.8
79 Higgins Road, Salt Creek	22.5	29.4	23.7	21.1	33.5	61.8	25.2	22.0	32.8	16.5	39.8
80 Arlington Heights Road, Salt Creek	9.8	10.8	11.2	7.0	12.3	8.8	9.7	11.1	9.9	7.7	8.8
18 Devon Avenue, Salt Creek	11.8	15.6	15.7	9.7	18.2	14.5	11.1	14.4	11.9	9.0	10.3
24 Wolf Road, Salt Creek	17.2	22.6	20.7	13.7	31.5	25.9	27.2	28.6	24.3	37.5	52.3
21 First Avenue, Salt Creek	18.1	23.0	22.0	14.9	29.8	24.5	18.8	28.3	29.2	22.1	44.6
77 Elmhurst Road, Higgins Creek	18.8	27.7	22.1	17.3	23.5	77.4	80.8	69.6	37.6	31.7	49.3
78 Wille Road, Higgins Creek	7.3	7.2	5.4	7.9	7.8	17.5	22.4	18.6	7.8	3.7	9.9
12 Lake-Cook Road, Buffalo Creek	17.7	45.9	25.8	18.9	28.3	36.8	21.8	31.6	27.3	20.1	45.1
13 Lake-Cook Road, Des Plaines River	16.9	23.9	22.0	18.6	30.1	22.1	18.8	20.3	25.7	20.0	30.0
17 Oakton Street, Des Plaines River	18.4	27.5	24.5	23.6	39.9	24.2	25.9	33.3	26.5	22.2	36.1
19 Belmont Avenue, Des Plaines River	16.7	20.4	19.3	16.7	34.8	25.5	25.8	29.5	27.2	22.3	34.7
20 Roosevelt Road, Des Plaines River	16.9	22.3	19.8	17.3	32.2	23.3	22.8	24.7	32.8	21.8	35.2
22 Ogden Avenue, Des Plaines River	17.3	23.6	19.7	17.6	33.7	23.5	20.6	32.9	35.0	23.4	38.1
23 Willow Springs Road, Des Plaines River	22.9	26.0	22.5	23.7	30.6	29.4	26.2	34.1	29.6	27.3	35.1
29 Stephen Street, Des Plaines River	26.0	26.6	24.4	24.3	30.1	31.8	25.3	36.3	32.9	29.8	40.0
91 Material Service Road, Des Plaines River	24.7	24.5	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-39

CONDUCTIVITY MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means ( $\mu$ mhos)										
	01	00	99	98	97	96	95	94	93	92	91
<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 Diversay 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 Dawson 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 Trestler, Chicago Sanitary & Ship Canal	ND	1235	935	930	1109	1172	1034	982	993	821	871
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, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-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
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-40

ALKALINITY (TOTAL) MEAN HISTORY THROUGH 2001

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	196	170	ND	ND	ND	152	148	106	278	174	145
106	Dundee Road, West Fork North Branch Chicago River	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	177	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	201	189	205	209	183	206	197	202	209	210	204
104	Glenview Road, North Branch Chicago River	189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	210	200	191	231	200	237	199	200	222	220	200
105	Frontage Road, Skokie River	182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Demptster Street, North Branch Chicago River	179	163	171	194	180	177	184	184	183	194	189
96	Albany Avenue, North Branch Chicago River	186	161	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	111	126	129	126	119	140	121	119	118	114	113
102	Oakton Street, North Shore Channel	119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	151	137	142	152	144	151	171	159	154	150	147
101	Forster Avenue, North Shore Channel	142	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	156	141	152	161	162	157	174	151	168	160	154
73	Diversey Parkway, North Branch Chicago River	155	138	150	161	149	156	165	157	158	155	149
46	Grand Avenue, North Branch Chicago River	157	143	151	167	149	160	178	158	155	155	156
74	Lake Shore Drive, Chicago River	125	123	117	120	115	114	122	122	114	114	113
100	Wells Street, Chicago River	132	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	147	137	144	148	131	136	140	133	140	136	139
108	Loomis Street, South Branch Chicago River	137	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	157	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Dasen Avenue, Chicago Sanitary & Ship Canal	ND	136	149	152	132	139	133	143	143	135	136
107	Western Avenue, Chicago Sanitary & Ship Canal	139	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	141	135	140	144	133	134	148	144	142	135	143
41	Harlem Avenue, Chicago Sanitary & Ship Canal	139	121	129	137	131	122	142	138	142	136	138
42	Route 83, Chicago Sanitary & Ship Canal	137	126	131	140	137	133	145	148	147	140	146
48	Stephen Street, Chicago Sanitary & Ship Canal	144	158	139	142	143	137	152	156	157	147	157
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	143	135	149	244	480	212	179	182	154	162
92	Lockport Forebay, Chicago Sanitary & Ship Canal	148	137	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	112	115	115	111	116	111	120	119	114	114	ND
50	Burnham Avenue, Wolf Lake	96	101	98	102	106	102	109	156	104	111	99
55	130th Street, Calumet River	116	116	117	114	118	129	119	127	119	115	112
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	165	168	155	141	158	212	221	219	185	153	201
56	Indiana Avenue, Little Calumet River	126	127	129	129	130	133	146	149	151	138	143
76	Halsted Street, Little Calumet River	159	154	158	153	153	154	170	165	170	166	194
52	Westworth Avenue, Little Calumet River	190	195	193	200	215	215	214	203	220	241	189
54	Joe Orr Road, Thorn Creek	195	172	175	203	216	223	238	202	215	204	231
97	170th Street, Thorn Creek	182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	174	190	184	179	199	201	215	187	196	216	187
58	Ashland Avenue, Cal-Sag Channel	163	159	156	142	164	162	180	168	191	170	171
59	Cicero Avenue, Cal-Sag Channel	161	161	156	156	159	160	187	165	179	177	164
43	Route 83, Cal-Sag Channel	161	162	159	156	161	161	173	176	183	175	162
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	207	196	239	230	182	213	230	211	191	233	199
63	Longmeadow Lane, West Branch Du Page River	195	156	192	184	160	137	192	163	177	189	149
89	Walnut Lane, West Branch Du Page River	165	155	163	154	140	138	157	153	178	172	155
64	Lake Street, West Branch Du Page River	162	146	153	152	141	133	156	145	163	179	166
79	Higgins Road, Salt Creek	182	161	158	171	142	159	180	161	166	184	149
80	Arlington Heights Road, Salt Creek	147	136	166	145	140	150	160	254	160	162	158
18	Devon Avenue, Salt Creek	145	132	139	144	145	144	160	144	154	161	161
24	Wolf Road, Salt Creek	159	144	153	178	139	155	173	155	156	175	178
21	First Avenue, Salt Creek	161	150	150	161	140	148	178	162	150	181	182
77	Elmhurst Road, Higgins Creek	168	140	172	196	144	140	175	139	145	190	146
78	Wille Road, Higgins Creek	195	171	190	173	168	168	191	173	178	209	186
12	Lake-Cook Road, Buffalo Creek	210	174	188	206	189	191	219	195	214	217	202
13	Lake-Cook Road, Des Plaines River	210	191	253	207	184	196	221	197	198	209	196
17	Oakton Street, Des Plaines River	201	175	180	205	169	192	212	165	189	204	186
19	Balsmont Avenue, Des Plaines River	203	172	177	199	176	188	211	192	195	208	178
20	Roosevelt Road, Des Plaines River	202	171	173	195	178	191	211	182	176	207	181
22	Ogden Avenue, Des Plaines River	190	160	164	185	167	179	200	168	165	198	177
23	Willow Springs Road, Des Plaines River	189	157	165	185	169	180	205	170	166	195	184
29	Stephen Street, Des Plaines River	188	165	166	184	176	180	192	175	187	391	192
91	Material Service Road, Des Plaines River	183	172	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-41

TOTAL KJELDAHL NITROGEN MEAN HISTORY THROUGH 2001

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	1.32	2.18	ND	ND	ND	1.94	1.61	1.34	2.58	1.92	2.09
106	Dundee Road, West Fork North Branch Chicago River	2.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	1.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	1.34	1.67	1.13	0.98	1.22	1.05	1.10	1.39	1.62	1.33	1.30
104	Glenview Road, North Branch Chicago River	1.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	1.17	1.09	1.02	0.80	1.16	1.10	1.11	1.14	0.99	1.17	1.60
105	Frontage Road, Skokie River	1.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1.71	1.45	1.21	1.03	1.47	1.43	1.16	1.45	1.32	1.47	1.60
96	Albany Avenue, North Branch Chicago River	1.96	1.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.63	1.05	1.27	0.76	0.38	2.25	0.52	0.38	0.79	0.38	0.41
102	Oakton Street, North Shore Channel	1.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	2.66	2.65	2.48	2.08	2.83	4.17	2.87	3.28	2.29	2.84	2.34
101	Poster Avenue, North Shore Channel	2.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	2.66	3.10	3.34	2.20	2.93	4.17	3.03	3.36	3.07	3.19	2.50
73	Diversey Parkway, North Branch Chicago River	2.43	2.52	2.20	1.58	2.44	3.37	2.04	2.35	2.32	2.93	2.90
46	Grand Avenue, North Branch Chicago River	2.34	2.40	2.18	1.94	2.27	3.06	2.93	2.83	2.43	2.64	2.15
74	Lake Shore Drive, Chicago River	1.01	1.10	0.63	0.43	0.50	0.43	0.34	0.36	0.42	0.36	0.52
100	Walls Street, Chicago River	1.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1.94	2.36	1.75	1.67	1.36	1.72	1.27	1.38	1.56	1.30	1.40
108	Loomis Street, South Branch Chicago River	1.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	3.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	2.31	1.80	1.31	1.85	2.03	1.44	2.01	1.62	1.75	1.47
107	Western Avenue, Chicago Sanitary & Ship Canal	2.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	1.92	1.99	1.64	1.48	1.51	2.31	2.07	2.00	1.72	1.83	1.61
41	Harlem Avenue, Chicago Sanitary & Ship Canal	1.91	1.72	1.43	1.50	2.05	2.86	2.44	2.14	1.86	1.81	1.84
42	Route 83, Chicago Sanitary & Ship Canal	1.94	1.65	1.70	1.86	2.48	2.80	2.40	2.80	1.98	2.26	1.85
48	Stephen Street, Chicago Sanitary & Ship Canal	1.87	1.93	1.71	1.49	2.05	2.49	2.75	3.07	2.32	2.63	2.89
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	1.96	1.77	1.71	1.90	2.26	2.30	2.32	2.55	2.40	2.13
92	Lockport Forebay, Chicago Sanitary & Ship Canal	1.86	1.83	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Bwing Avenue, Calumet River	0.41	0.51	0.59	0.48	0.37	0.76	0.43	0.52	0.37	0.41	ND
50	Burnham Avenue, Wolf Lake	0.62	0.73	0.47	0.55	0.72	0.68	0.61	0.89	0.64	0.79	0.80
55	130th Street, Calumet River	0.85	0.66	0.69	0.49	0.51	0.67	0.62	0.67	0.82	0.77	1.02
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	2.58	4.32	3.34	2.10	1.98	6.36	6.16	8.14	3.77	5.67	5.23
56	Indiana Avenue, Little Calumet River	1.05	1.01	1.10	1.00	1.20	1.74	1.78	2.99	2.59	2.87	2.83
76	Halsted Street, Little Calumet River	1.58	1.50	1.38	1.27	1.66	2.66	3.11	4.06	3.55	4.79	5.02
52	Wentworth Avenue, Little Calumet River	1.73	2.03	2.39	2.65	1.53	1.76	1.27	1.80	1.43	1.75	1.91
54	Joe Orr Road, Thorn Creek	1.53	1.92	1.43	1.23	1.38	2.02	1.60	2.77	2.33	1.49	1.51
97	170th Street, Thorn Creek	1.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.60	1.46	1.44	1.42	1.40	1.42	1.74	2.15	1.79	1.38	1.49
58	Ashland Avenue, Cal-Sag Channel	1.55	1.50	1.27	1.11	1.62	1.83	2.78	3.08	2.42	4.56	4.02
59	Cicero Avenue, Cal-Sag Channel	1.67	2.22	1.46	1.37	1.83	2.27	3.74	3.89	3.50	4.77	4.22
43	Route 83, Cal-Sag Channel	1.94	1.45	1.42	1.25	1.92	2.49	3.18	3.86	3.27	3.74	4.39
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	1.03	1.31	1.78	0.74	1.22	1.14	1.10	1.09	1.16	0.93	0.95
63	Longmeadow Lane, West Branch Du Page River	1.88	1.66	1.81	1.66	1.82	2.19	1.92	1.78	1.35	1.67	1.47
89	Walnut Lane, West Branch Du Page River	2.30	2.37	2.64	2.34	2.12	2.12	1.97	2.00	2.28	2.07	2.34
64	Lake Street, West Branch Du Page River	2.53	2.70	2.25	2.52	2.42	2.24	2.10	2.10	2.25	2.69	3.50
79	Higgins Road, Salt Creek	1.49	1.82	1.17	1.31	1.36	1.27	1.52	1.38	1.32	1.00	1.15
80	Arlington Heights Road, Salt Creek	1.64	1.74	1.46	1.45	1.58	1.55	1.66	1.49	1.13	1.43	1.60
18	Devon Avenue, Salt Creek	1.74	1.73	1.47	1.33	1.51	1.86	1.91	1.60	1.17	1.38	1.53
24	Wolf Road, Salt Creek	1.52	1.61	1.23	1.12	1.56	1.84	1.67	1.69	1.37	1.37	1.54
21	Firat Avenue, Salt Creek	1.39	1.62	1.42	1.05	1.50	1.47	1.43	1.58	1.46	1.27	1.65
77	Elmhurst Road, Higgins Creek	1.34	1.41	1.29	0.82	0.92	1.23	1.21	1.49	1.06	1.04	1.20
78	Wille Road, Higgins Creek	1.85	2.35	1.74	1.37	2.10	1.44	1.66	1.75	1.56	1.54	1.43
12	Lake-Cook Road, Buffalo Creek	1.22	1.49	1.12	0.98	1.23	1.29	1.10	1.40	1.64	1.24	1.49
13	Lake-Cook Road, Des Plaines River	1.48	1.82	1.22	1.26	1.33	1.12	1.25	1.72	1.47	1.35	1.68
17	Oakton Street, Des Plaines River	1.55	1.58	1.18	1.24	1.36	1.49	1.66	1.26	1.28	1.40	1.65
19	Belmont Avenue, Des Plaines River	1.66	2.27	1.13	1.26	1.54	1.58	1.72	1.96	1.36	1.48	1.78
20	Roosevelt Road, Des Plaines River	1.56	1.57	1.14	1.29	1.58	1.58	1.51	1.70	1.32	1.50	1.66
22	Ogden Avenue, Des Plaines River	1.60	1.49	1.11	1.48	1.75	1.52	1.49	1.68	1.49	1.33	1.62
23	Willow Springs Road, Des Plaines River	1.69	1.67	1.08	1.39	1.39	1.57	1.48	1.76	1.35	1.43	1.62
29	Stephen Street, Des Plaines River	1.87	1.35	1.15	1.52	1.67	1.62	1.85	1.95	1.43	1.52	1.68
91	Material Service Road, Des Plaines River	1.63	1.63	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-42

AMMONIUM NITROGEN MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	0.300	0.470	ND	ND	ND	0.238	0.209	0.165	1.358	0.375	0.183
106	Dundee Road, West Fork North Branch Chicago River	0.445	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.277	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.139	0.169	0.038	0.048	0.109	0.074	0.134	0.165	0.109	0.228	0.157
104	Glenview Road, North Branch Chicago River	0.103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.190	0.187	0.077	0.083	0.091	0.184	0.189	0.129	0.150	0.209	0.167
105	Frontage Road, Skokie River	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Despater Street, North Branch Chicago River	0.336	0.158	0.039	0.064	0.099	0.234	0.125	0.201	0.275	0.220	0.217
96	Albany Avenue, North Branch Chicago River	0.477	0.413	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.183	0.301	0.348	0.413	0.020	1.197	0.127	0.073	0.375	0.050	0.035
102	Oakton Street, North Shore Channel	0.376	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.063	1.273	0.921	0.911	1.470	2.474	1.576	1.660	1.199	1.603	0.757
101	Foster Avenue, North Shore Channel	1.185	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	1.083	1.653	1.772	1.158	1.701	2.609	1.663	2.014	2.156	1.970	1.196
73	Diversey Parkway, North Branch Chicago River	0.863	1.227	0.883	0.583	1.368	1.923	1.016	1.078	1.287	1.579	1.243
46	Grand Avenue, North Branch Chicago River	0.968	1.201	0.954	0.992	1.272	1.799	1.706	1.626	1.578	1.523	1.102
74	Lake Shore Drive, Chicago River	0.413	0.372	0.215	0.137	0.067	0.153	0.109	0.080	0.114	0.099	0.048
100	Wells Street, Chicago River	0.462	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.879	0.906	0.822	0.538	0.607	0.837	0.642	0.753	0.994	0.707	0.578
108	Loomis Street, South Branch Chicago River	0.587	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	1.715	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	1.116	0.847	0.524	0.920	1.090	0.585	1.183	0.984	1.041	0.573
107	Western Avenue, Chicago Sanitary & Ship Canal	0.878	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.769	0.843	0.793	0.403	0.721	1.256	1.036	1.128	0.983	1.100	0.683
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.754	0.438	0.357	0.495	0.716	1.318	1.217	0.925	0.893	0.706	0.595
42	Route 83, Chicago Sanitary & Ship Canal	0.756	0.630	0.604	0.636	1.184	1.416	1.193	1.460	1.182	1.152	0.597
48	Stephen Street, Chicago Sanitary & Ship Canal	0.721	0.692	0.601	0.486	0.858	1.281	1.352	1.606	1.161	1.495	1.358
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0.619	0.449	0.343	0.444	0.614	0.809	0.731	1.031	1.112	1.119
92	Lockport Porebay, Chicago Sanitary & Ship Canal	0.654	0.595	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.108	0.113	0.056	0.044	0.010	0.051	0.077	0.050	0.082	0.076	ND
50	Burnham Avenue, Wolf Lake	0.087	0.092	0.056	0.018	0.003	0.045	0.045	0.072	0.051	0.099	0.088
55	130th Street, Calumet River	0.214	0.195	0.124	0.114	0.083	0.162	0.135	0.184	0.323	0.315	0.365
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	0.934	1.586	1.059	0.417	0.632	3.459	3.950	4.840	1.738	2.745	2.284
56	Indiana Avenue, Little Calumet River	0.127	0.307	0.276	0.307	0.396	0.755	0.919	1.889	1.507	1.677	1.503
76	Halsted Street, Little Calumet River	0.355	0.332	0.332	0.348	0.488	2.410	1.912	2.503	2.339	3.423	3.381
52	Wentworth Avenue, Little Calumet River	0.274	0.278	0.297	0.161	0.181	0.201	0.197	0.287	0.368	0.438	0.512
54	Joe Orr Road, Thorn Creek	0.110	0.380	0.057	0.034	0.124	0.734	0.324	1.084	1.017	0.209	0.283
97	170th Street, Thorn Creek	0.275	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.248	0.295	0.232	0.183	0.204	0.212	0.629	0.798	0.756	0.343	0.275
58	Ashland Avenue, Cal-Sag Channel	0.415	0.374	0.346	0.291	0.484	0.962	1.601	1.668	1.363	2.955	2.452
59	Cicero Avenue, Cal-Sag Channel	0.448	0.490	0.406	0.336	0.526	1.011	2.458	2.418	2.353	3.233	2.606
43	Route 83, Cal-Sag Channel	0.513	0.336	0.375	0.309	0.659	0.892	2.032	2.311	2.033	2.474	2.918
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.105	0.106	0.067	0.075	0.074	0.073	0.047	0.079	0.054	0.061	0.079
63	Longmeadow Lane, West Branch Du Page River	0.305	0.154	0.131	0.135	0.225	0.368	0.196	0.160	0.151	0.365	0.143
89	Walnut Lane, West Branch Du Page River	0.294	0.341	0.367	0.192	0.191	0.258	0.145	0.104	0.653	0.377	0.745
64	Lake Street, West Branch Du Page River	0.460	0.645	0.421	0.601	0.415	0.387	0.228	0.232	0.643	0.996	1.409
79	Higgins Road, Salt Creek	0.106	0.172	0.067	0.118	0.076	0.156	0.226	0.075	0.107	0.074	0.112
80	Arlington Heights Road, Salt Creek	0.192	0.145	0.090	0.178	0.137	0.285	0.246	0.195	0.106	0.348	0.355
18	Devon Avenue, Salt Creek	0.228	0.161	0.093	0.243	0.132	0.358	0.206	0.199	0.113	0.203	0.367
24	Wolf Road, Salt Creek	0.171	0.196	0.127	0.155	0.131	0.208	0.150	0.153	0.106	0.153	0.162
21	First Avenue, Salt Creek	0.160	0.192	0.105	0.134	0.121	0.207	0.120	0.145	0.196	0.145	0.137
77	Elmhurst Road, Higgins Creek	0.187	0.134	0.116	0.258	0.107	0.186	0.192	0.238	0.147	0.200	0.170
78	Wille Road, Higgins Creek	0.250	0.396	0.245	0.297	0.515	0.151	0.259	0.355	0.370	0.311	0.232
12	Lake-Cook Road, Buffalo Creek	0.108	0.134	0.071	0.088	0.056	0.092	0.067	0.097	0.087	0.120	0.167
13	Lake-Cook Road, Des Plaines River	0.104	0.143	0.108	0.177	0.083	0.127	0.436	0.198	0.236	0.175	0.286
17	Oakton Steet, Des Plaines River	0.093	0.107	0.075	0.100	0.075	0.108	0.103	0.210	0.150	0.125	0.224
19	Belmont Avenue, Des Plaines River	0.157	0.177	0.118	0.223	0.171	0.184	0.276	0.300	0.199	0.177	0.275
20	Roosevelt Road, Des Plaines River	0.140	0.145	0.093	0.183	0.205	0.136	0.135	0.219	0.208	0.209	0.353
22	Ogden Avenue, Des Plaines River	0.127	0.150	0.089	0.128	0.190	0.142	0.092	0.158	0.210	0.152	0.299
23	Willow Springs Road, Des Plaines River	0.134	0.160	0.089	0.175	0.080	0.101	0.090	0.168	0.196	0.127	0.178
29	Stephen Street, Des Plaines River	0.121	0.146	0.077	0.151	0.128	0.150	0.330	0.182	0.172	0.141	0.187
91	Material Service Road, Des Plaines River	0.115	0.140	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-43

UN-IONIZED AMMONIA MEAN HISTORY THROUGH 2001

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	0.001	0.004	ND	ND	ND	0.007	0.009	0.020	0.007	0.007	0.006
106	Dundee Road, West Fork North Branch Chicago River	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.002	0.006	0.001	0.002	0.002	0.003	0.005	0.002	0.003	0.004	0.004
104	Glenview Road, North Branch Chicago River	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.003	0.007	0.002	0.001	0.002	0.016	0.014	0.003	0.002	0.004	0.005
105	Frontage Road, Skokie River	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Deerpark Street, North Branch Chicago River	0.003	0.005	0.001	0.001	0.003	0.003	0.003	0.001	0.003	0.003	0.010
96	Albany Avenue, North Branch Chicago River	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.004	0.020	0.008	0.030	0.002	0.022	0.009	0.011	0.004	0.003	0.004
102	Oakton Street, North Shore Channel	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.007	0.051	0.021	0.035	0.027	0.035	0.017	0.029	0.017	0.034	0.027
101	Postar Avenue, North Shore Channel	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.011	0.058	0.033	0.052	0.050	0.045	0.015	0.030	0.013	0.041	0.040
73	Diversey Parkway, North Branch Chicago River	0.003	0.037	0.015	0.082	0.053	0.095	0.012	0.009	0.035	0.032	0.031
46	Grand Avenue, North Branch Chicago River	0.004	0.017	0.023	0.049	0.009	0.017	0.017	0.029	0.017	0.009	0.014
74	Lake Shore Drive, Chicago River	0.008	0.005	0.005	0.007	0.003	0.002	0.001	0.004	0.003	0.001	0.002
100	Wells Street, Chicago River	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.008	0.011	0.051	0.023	0.007	0.010	0.007	0.006	0.017	0.005	0.030
108	Loomis Street, South Branch Chicago River	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.012	0.026	0.081	0.013	0.015	0.006	0.035	0.009	0.011	0.007
107	Western Avenue, Chicago Sanitary & Ship Canal	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.007	0.031	0.051	0.051	0.022	0.005	0.029	0.007	0.025	0.005
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	0.006	0.006	0.021	0.010	0.016	0.004	0.010	0.009	0.009	0.006
42	Route 83, Chicago Sanitary & Ship Canal	0.004	0.006	0.019	0.031	0.016	0.016	0.008	0.021	0.013	0.039	0.012
48	Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.008	0.015	0.020	0.009	0.017	0.028	0.060	0.033	0.059	0.025
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	0.004	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Bwing Avenue, Calumet River	0.002	0.005	0.003	0.003	0.000	0.006	0.001	0.001	0.001	0.001	ND
50	Burnham Avenue, Wolf Lake	0.003	0.005	0.003	0.001	0.000	0.004	0.001	0.001	0.000	0.002	0.002
55	130th Street, Calumet River	0.002	0.004	0.005	0.005	0.001	0.032	0.009	0.005	0.002	0.004	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	0.009	0.048	0.028	0.009	0.003	0.120	0.028	0.031	0.019	0.018	0.021
56	Indiana Avenue, Little Calumet River	0.004	0.024	0.012	0.014	0.006	0.062	0.033	0.012	0.008	0.006	0.022
76	Halsted Street, Little Calumet River	0.002	0.005	0.009	0.007	0.017	0.011	0.032	0.025	0.025	0.045	0.051
52	Westworth Avenue, Little Calumet River	0.003	0.011	0.007	0.010	0.003	0.052	0.018	0.005	0.006	0.007	0.017
54	Joe Orr Road, Thorn Creek	0.001	0.006	0.005	0.001	0.010	0.006	0.006	0.032	0.047	0.003	0.004
97	170th Street, Thorn Creek	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.002	0.003	0.012	0.007	0.020	0.003	0.007	0.004	0.006	0.003	0.004
58	Ashland Avenue, Cal-Sag Channel	0.003	0.004	0.012	0.021	0.020	0.006	0.024	0.055	0.023	0.051	0.030
59	Cicero Avenue, Cal-Sag Channel	0.006	0.003	0.015	0.012	0.022	0.022	0.030	0.024	0.030	0.025	0.035
43	Route 83, Cal-Sag Channel	0.009	0.003	0.030	0.023	0.043	0.009	0.017	0.019	0.013	0.007	0.056
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.007	0.004	0.003	0.002	0.002	0.001	0.001	0.002	0.002	0.007
63	Longmeadow Lane, West Branch Du Page River	0.002	0.011	0.003	0.014	0.003	0.036	0.007	0.003	0.008	0.004	0.004
89	Walnut Lane, West Branch Du Page River	0.004	0.038	0.018	0.006	0.002	0.015	0.004	0.002	0.003	0.004	0.006
64	Lake Street, West Branch Du Page River	0.006	0.148	0.018	0.035	0.008	0.020	0.005	0.006	0.007	0.015	0.034
79	Higgins Road, Salt Creek	0.001	0.024	0.007	0.011	0.002	0.005	0.046	0.003	0.005	0.002	0.010
80	Arlington Heights Road, Salt Creek	0.002	0.024	0.003	0.008	0.010	0.005	0.014	0.006	0.002	0.003	0.016
18	Devon Avenue, Salt Creek	0.011	0.029	0.003	0.011	0.003	0.004	0.007	0.002	0.002	0.012	0.010
24	Wolf Road, Salt Creek	0.003	0.004	0.012	0.003	0.003	0.008	0.005	0.015	0.002	0.018	0.003
21	First Avenue, Salt Creek	0.002	0.002	0.013	0.003	0.002	0.006	0.001	0.003	0.002	0.001	0.001
77	Elmhurst Road, Higgins Creek	0.004	0.004	0.016	0.005	0.003	0.006	0.012	0.007	0.003	0.004	0.004
78	Willie Road, Higgins Creek	0.005	0.006	0.022	0.007	0.059	0.006	0.014	0.011	0.007	0.005	0.006
12	Lake-Cook Road, Buffalo Creek	0.002	0.012	0.004	0.007	0.001	0.003	0.004	0.001	0.006	0.001	0.003
13	Lake-Cook Road, Des Plaines River	0.002	0.014	0.007	0.011	0.002	0.012	0.009	0.009	0.014	0.001	0.005
17	Oakton Street, Des Plaines River	0.002	0.002	0.016	0.002	0.002	0.005	0.008	0.013	0.002	0.003	0.002
19	Belmont Avenue, Des Plaines River	0.003	0.002	0.017	0.005	0.005	0.007	0.007	0.009	0.001	0.004	0.004
20	Roosevelt Road, Des Plaines River	0.002	0.004	0.014	0.003	0.002	0.005	0.004	0.006	0.001	0.003	0.005
22	Ogden Avenue, Des Plaines River	0.002	0.001	0.011	0.003	0.027	0.004	0.001	0.008	0.004	0.001	0.002
23	Willow Springs Road, Des Plaines River	0.002	0.004	0.010	0.004	0.003	0.007	0.006	0.014	0.004	0.007	0.003
29	Stephen Street, Des Plaines River	0.002	0.005	0.010	0.005	0.004	0.011	0.022	0.016	0.003	0.006	0.005
91	Material Service Road, Des Plaines River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-44

ORGANIC NITROGEN MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	1.02	1.71	ND	ND	ND	1.70	1.40	1.17	1.22	1.54	1.91
106	Dundee Road, West Fork North Branch Chicago River	1.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
183	Golf Road, West Fork North Branch Chicago River	1.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	1.20	1.50	1.09	0.93	1.11	0.98	0.97	1.12	0.91	1.10	1.14
104	Glenview Road, North Branch Chicago River	1.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.98	0.91	0.95	0.72	1.07	0.92	0.92	1.01	0.84	0.96	1.45
105	Frontage Road, Skokie River	1.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1.38	1.29	1.17	0.97	1.37	1.20	1.04	1.25	1.05	1.25	1.37
96	Albany Avenue, North Branch Chicago River	1.48	1.19	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.44	0.75	0.92	0.42	0.36	1.06	0.39	0.31	0.41	0.33	0.38
102	Oakton Street, North Shore Channel	0.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.60	1.37	1.56	1.17	1.36	1.70	1.29	1.62	1.09	1.24	1.59
181	Foster Avenue, North Shore Channel	1.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	1.57	1.45	1.56	1.04	1.23	1.56	1.37	1.35	0.92	1.22	1.30
73	Diversey Parkway, North Branch Chicago River	1.57	1.30	1.31	1.00	1.07	1.45	1.02	1.27	1.04	1.35	1.67
46	Grand Avenue, North Branch Chicago River	1.37	1.20	1.23	0.95	0.99	1.26	1.23	1.21	0.85	1.12	1.04
74	Lake Shore Drive, Chicago River	0.59	0.73	0.41	0.31	0.44	0.28	0.23	0.28	0.30	0.26	0.47
100	Wells Street, Chicago River	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1.06	1.46	0.93	1.13	0.76	0.88	0.63	0.59	0.57	0.60	0.82
108	Loomis Street, South Branch Chicago River	1.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	1.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	1.30	0.95	0.79	0.93	0.94	0.85	0.83	0.64	0.71	0.90
107	Western Avenue, Chicago Sanitary & Ship Canal	1.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	1.15	1.14	0.85	1.07	0.87	1.05	1.04	0.88	0.74	0.73	0.92
41	Harlem Avenue, Chicago Sanitary & Ship Canal	1.16	1.28	1.07	1.01	1.33	1.54	1.22	1.21	0.97	1.10	1.25
42	Route 83, Chicago Sanitary & Ship Canal	1.18	1.02	1.09	1.22	1.30	1.38	1.21	1.34	0.80	1.11	1.25
48	Stephen Street, Chicago Sanitary & Ship Canal	1.15	1.24	1.11	1.00	1.19	1.21	1.40	1.36	0.96	1.13	1.53
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	1.35	1.33	1.37	1.45	1.64	0.63	1.62	ND	1.28	1.01
52	Lockport Forebay, Chicago Sanitary & Ship Canal	1.21	1.24	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Bring Avenue, Calumet River	0.30	0.40	0.57	0.44	0.36	0.71	0.35	0.47	0.29	0.34	ND
50	Burnham Avenue, Wolf Lake	0.53	0.64	0.46	0.53	0.72	0.63	0.56	0.82	0.58	0.69	0.72
55	130th Street, Calumet River	0.64	0.46	0.56	0.38	0.43	0.51	0.49	0.48	0.49	0.46	0.66
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	1.64	2.73	2.29	1.69	1.35	2.90	2.21	3.30	2.04	2.92	2.95
56	Indiana Avenue, Little Calumet River	0.92	0.70	0.82	0.69	0.80	0.99	0.86	1.10	1.09	1.19	1.33
76	Malated Street, Little Calumet River	1.23	1.17	1.05	0.92	1.17	1.41	1.20	1.55	1.21	1.37	1.64
52	Wentworth Avenue, Little Calumet River	1.46	1.75	2.09	2.49	1.35	1.55	1.08	1.51	1.13	1.31	1.40
54	Joe Orr Road, Thorn Creek	1.42	1.54	1.37	1.19	1.25	1.43	1.27	1.69	1.31	1.28	1.23
97	170th Street, Thorn Creek	1.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.35	1.16	1.21	1.24	1.20	1.21	1.12	1.36	1.03	1.04	1.21
58	Ashland Avenue, Cal-Sag Channel	1.13	1.12	1.03	0.82	1.13	1.18	1.30	1.41	1.06	1.60	1.57
59	Cicero Avenue, Cal-Sag Channel	1.22	1.73	1.06	1.04	1.31	1.26	1.28	1.47	1.14	1.54	1.62
43	Route 83, Cal-Sag Channel	1.43	1.12	1.05	0.94	1.26	1.60	1.15	1.55	1.24	1.27	1.47
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.92	1.20	1.71	0.66	1.14	1.07	1.05	1.01	1.11	0.87	0.87
63	Longmeadow Lane, West Branch Du Page River	1.58	1.50	1.68	1.52	1.60	1.82	1.72	1.62	1.20	1.30	1.33
89	Walnut Lane, West Branch Du Page River	2.00	2.03	2.27	2.15	1.93	1.86	1.83	1.90	1.60	1.69	1.59
64	Lake Street, West Branch Du Page River	2.07	2.06	1.83	1.92	2.01	1.85	1.87	1.86	1.60	1.69	2.09
79	Higgins Road, Salt Creek	1.38	1.65	1.11	1.19	1.29	1.11	1.44	1.30	1.21	0.93	1.04
80	Arlington Heights Road, Salt Creek	1.45	1.60	1.37	1.27	1.44	1.38	1.41	1.29	1.02	1.08	1.24
18	Devon Avenue, Salt Creek	1.52	1.57	1.38	1.09	1.37	1.66	1.70	1.40	1.06	1.17	1.17
24	Wolf Road, Salt Creek	1.35	1.41	1.10	0.97	1.43	1.81	1.51	1.84	1.26	1.22	1.37
21	First Avenue, Salt Creek	1.23	1.43	1.32	0.92	1.38	1.39	1.31	1.43	1.27	1.13	1.50
77	Elmhurst Road, Higgins Creek	1.16	1.28	1.17	0.66	0.81	1.04	1.12	1.25	0.85	0.84	1.04
78	Wille Road, Higgins Creek	1.60	1.95	1.50	1.07	1.58	1.29	1.40	1.40	1.19	1.23	1.20
12	Lake-Cook Road, Buffalo Creek	1.11	1.36	1.04	0.90	1.18	1.20	1.04	1.30	1.56	1.12	1.31
13	Lake-Cook Road, Des Plaines River	1.38	1.68	1.12	1.08	1.25	1.00	1.17	1.52	1.24	1.17	1.39
17	Oakton Street, Des Plaines River	1.45	1.48	1.11	1.14	1.28	1.38	1.56	1.05	1.13	1.28	1.43
19	Belmont Avenue, Des Plaines River	1.51	2.09	1.01	1.03	1.37	1.40	1.45	1.66	1.16	1.31	1.50
20	Roosevelt Road, Des Plaines River	1.42	1.43	1.04	1.10	1.38	1.44	1.37	1.48	1.11	1.29	1.30
22	Ogden Avenue, Des Plaines River	1.47	1.34	1.02	1.35	1.56	1.37	1.40	1.52	1.28	1.18	1.32
23	Willow Springs Road, Des Plaines River	1.56	1.51	0.99	1.22	1.31	1.47	1.40	1.59	1.16	1.30	1.44
29	Stephen Street, Des Plaines River	1.74	1.20	1.08	1.36	1.54	1.47	1.52	1.77	1.26	1.38	1.49
91	Material Service Road, Des Plaines River	1.51	1.49	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-45

NITRITE PLUS NITRATE NITROGEN MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	2.60	7.57	ND	ND	ND	9.14	7.84	13.94	4.30	3.22	9.57
106	Dundee Road, West Fork North Branch Chicago River	5.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	3.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.37	0.35	0.41	0.51	0.43	0.37	0.47	0.38	0.42	0.51	0.61
104	Glenview Road, North Branch Chicago River	3.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.46	0.52	0.55	0.58	0.80	0.50	0.68	1.03	0.86	1.53	0.71
105	Frontage Road, Skokie River	3.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	2.65	4.51	4.93	3.85	5.13	5.01	3.39	4.44	3.44	4.69	4.33
96	Albany Avenue, North Branch Chicago River	3.05	5.37	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.28	0.29	0.32	0.22	0.25	0.20	0.24	0.25	0.55	0.26	0.24
102	Oakton Street, North Shore Channel	1.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	5.57	5.59	5.67	5.74	5.56	4.85	4.16	4.39	5.02	4.01	4.73
101	Poster Avenue, North Shore Channel	6.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	5.94	6.17	6.28	6.38	5.87	5.61	4.99	4.51	4.91	3.86	3.72
73	Diversey Parkway, North Branch Chicago River	5.48	5.49	6.23	5.46	5.16	5.44	4.51	5.17	4.42	4.98	5.34
46	Grand Avenue, North Branch Chicago River	4.86	5.63	5.51	5.27	4.74	4.92	4.71	4.03	3.60	3.99	4.36
74	Lake Shore Drive, Chicago River	1.93	1.84	1.08	0.96	0.39	0.42	0.31	0.35	0.40	0.36	0.38
100	Wells Street, Chicago River	2.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	3.61	4.28	4.33	3.41	2.39	2.58	2.19	2.04	2.48	2.17	2.32
108	Loomis Street, South Branch Chicago River	3.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	2.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	4.42	3.42	3.21	2.84	2.75	2.47	2.56	2.46	2.03	2.23
107	Western Avenue, Chicago Sanitary & Ship Canal	3.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	3.54	4.30	3.58	3.04	2.89	2.54	2.52	2.34	2.37	2.05	2.55
41	Harlem Avenue, Chicago Sanitary & Ship Canal	6.26	7.00	7.01	6.97	6.18	6.83	5.52	5.51	4.95	5.08	4.97
42	Route 83, Chicago Sanitary & Ship Canal	5.61	5.84	5.80	5.64	5.57	6.37	4.90	4.11	4.19	4.29	4.73
48	Stephen Street, Chicago Sanitary & Ship Canal	5.27	5.15	5.10	5.10	5.07	5.20	4.43	3.84	2.86	3.61	3.95
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	6.13	4.87	4.48	4.59	5.11	4.66	4.00	4.02	4.17	4.38
92	Lockport Forebay, Chicago Sanitary & Ship Canal	5.31	5.52	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.46	0.38	0.36	0.34	0.31	0.33	0.28	0.28	0.33	0.53	ND
50	Burnham Avenue, Wolf Lake	0.16	0.09	0.78	0.12	0.23	0.16	0.10	0.09	0.15	0.83	0.09
55	130th Street, Calumet River	0.67	0.56	0.53	0.48	0.52	0.48	0.39	0.48	0.64	0.55	0.68
51	INB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	9.06	8.48	8.48	12.32	11.89	8.16	6.74	3.72	6.23	12.69	4.49
56	Indiana Avenue, Little Calumet River	1.95	1.86	1.79	3.18	4.04	1.64	1.04	1.04	2.19	1.53	1.19
76	Halsted Street, Little Calumet River	4.80	4.32	4.27	4.14	4.55	3.55	2.55	2.55	3.15	2.51	2.71
52	Westworth Avenue, Little Calumet River	3.32	4.18	4.53	3.82	3.75	4.20	3.89	3.78	2.82	2.97	2.14
54	Joe Orr Road, Thorn Creek	6.81	7.92	7.68	6.80	6.79	7.59	8.58	8.76	6.95	8.50	5.92
97	170th Street, Thorn Creek	4.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	3.07	4.31	3.71	2.82	3.64	3.56	3.65	3.61	2.56	3.13	2.78
58	Ashland Avenue, Cal-Sag Channel	4.57	4.22	3.32	3.59	3.78	3.34	2.53	2.39	2.68	2.75	2.43
59	Cicero Avenue, Cal-Sag Channel	4.26	4.26	3.40	3.78	3.91	3.26	2.39	2.32	2.62	2.42	2.40
43	Route 83, Cal-Sag Channel	4.25	4.20	3.37	3.50	3.97	3.33	2.76	2.48	2.56	2.52	2.05
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.49	0.39	0.46	0.44	1.81	0.47	0.34	0.45	0.44	0.43	0.48
63	Longmeadow Lane, West Branch Du Page River	1.32	0.63	2.88	2.57	2.13	1.84	1.73	3.56	1.02	3.73	2.94
89	Walnut Lane, West Branch Du Page River	7.24	6.98	8.01	8.34	8.89	7.91	8.58	10.73	5.71	8.76	8.00
64	Lake Street, West Branch Du Page River	6.79	5.78	6.86	8.52	7.87	8.24	8.72	9.83	5.33	8.16	7.53
79	Higgins Road, Salt Creek	0.28	0.47	0.26	0.51	0.29	0.33	0.29	0.25	0.35	1.27	0.68
80	Arlington Heights Road, Salt Creek	6.92	6.27	7.07	7.46	5.18	5.13	5.81	6.11	3.56	5.98	4.65
18	Devon Avenue, Salt Creek	7.22	6.40	7.31	7.24	4.70	5.32	5.53	6.17	3.77	6.12	5.05
24	Wolf Road, Salt Creek	5.87	5.27	6.67	6.97	5.84	6.49	6.51	6.73	5.44	7.01	5.84
21	First Avenue, Salt Creek	5.34	4.80	6.35	6.94	6.57	5.75	6.14	6.27	5.98	6.37	5.73
77	Elmhurst Road, Higgins Creek	0.58	0.46	0.34	0.34	0.45	0.73	0.32	0.58	0.75	0.52	0.52
78	Wille Road, Higgins Creek	5.44	4.25	4.99	6.96	5.85	4.41	5.02	5.42	4.04	5.18	3.86
12	Lake-Cook Road, Buffalo Creek	0.88	0.51	0.41	0.44	0.33	0.51	0.39	0.32	1.25	1.01	0.88
13	Lake-Cook Road, Des Plaines River	4.94	5.24	5.02	4.92	4.35	5.14	4.30	6.00	3.58	5.77	5.43
17	Oakton Street, Des Plaines River	4.18	3.80	5.32	4.23	3.66	4.56	4.16	3.42	3.04	5.02	4.41
19	Belmont Avenue, Des Plaines River	3.87	3.54	4.54	4.00	3.87	4.16	3.98	4.52	3.06	4.38	3.71
20	Roosevelt Road, Des Plaines River	3.69	3.42	4.26	3.83	3.75	4.03	3.88	4.41	2.85	4.06	3.60
22	Ogden Avenue, Des Plaines River	3.98	3.78	5.02	4.75	4.45	4.20	4.35	4.61	3.44	4.66	3.83
23	Willow Springs Road, Des Plaines River	3.85	3.89	4.77	4.58	4.44	4.29	4.16	4.25	3.49	4.25	3.82
29	Stephen Street, Des Plaines River	3.70	3.91	4.61	4.64	4.55	4.27	4.51	4.26	3.59	4.16	3.76
91	Material Service Road, Des Plaines River	3.68	4.52	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-46

TOTAL SOLIDS MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	1941	1948	ND	ND	ND	811	696	567	800	714	737
106 Dundee Road, West Fork North Branch Chicago River	941	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	741	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	708	770	693	749	727	763	689	670	718	648	638
104 Glenview Road, North Branch Chicago River	631	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	737	828	704	772	840	819	693	758	699	718	667
105 Frontage Road, Skokie River	611	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	754	863	726	729	859	860	692	760	673	707	706
96 Albany Avenue, North Branch Chicago River	674	616	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	230	363	299	276	246	320	240	207	355	225	205
102 Oakton Street, North Shore Channel	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	542	574	573	529	512	511	552	488	435	567	441
101 Foster Avenue, North Shore Channel	473	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	616	654	663	596	585	557	611	522	665	428	469
73 Diversay Parkway, North Branch Chicago River	642	654	655	592	622	590	565	514	577	446	514
46 Grand Avenue, North Branch Chicago River	602	587	596	620	547	618	617	506	496	453	492
74 Lake Shore Drive, Chicago River	403	402	297	320	235	237	230	216	320	226	232
100 Wells Street, Chicago River	378	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	565	517	484	492	370	418	391	355	405	346	388
108 Loomis Street, South Branch Chicago River	419	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	451	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	552	486	536	435	500	391	429	439	388	378
107 Western Avenue, Chicago Sanitary & Ship Canal	488	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	522	517	478	547	435	525	499	424	432	338	421
41 Marles Avenue, Chicago Sanitary & Ship Canal	584	619	613	608	555	569	544	503	522	439	493
42 Route 83, Chicago Sanitary & Ship Canal	636	566	608	595	580	585	554	566	486	437	555
48 Stephen Street, Chicago Sanitary & Ship Canal	630	633	581	623	617	628	580	596	608	507	630
82 Lockport Treblier, Chicago Sanitary & Ship Canal	ND	812	634	632	658	638	623	584	603	522	551
92 Lockport Forebay, Chicago Sanitary & Ship Canal	643	680	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	302	282	260	327	222	262	240	257	247	299	ND
50 Burnham Avenue, Wolf Lake	265	255	231	286	265	272	245	270	261	258	253
55 130th Street, Calumet River	395	364	342	341	328	344	349	306	369	384	390
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	799	934	913	990	940	1364	1183	1113	968	1063	1037
56 Indiana Avenue, Little Calumet River	414	489	461	514	523	516	459	571	607	494	554
76 Halsted Street, Little Calumet River	622	697	664	589	647	734	649	673	714	625	667
52 Wentworth Avenue, Little Calumet River	706	835	772	740	814	818	662	887	780	825	738
54 Joe Orr Road, Thorn Creek	1230	1140	1095	1182	1273	1090	943	844	834	875	860
97 170th Street, Thorn Creek	861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	779	965	905	782	918	923	817	774	724	814	771
58 Ashland Avenue, Cal-Sag Channel	668	753	641	605	739	748	646	643	710	674	667
59 Cicero Avenue, Cal-Sag Channel	656	775	663	639	734	721	686	641	697	658	618
43 Route 83, Cal-Sag Channel	674	760	664	673	717	733	643	691	781	760	569
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	733	657	672	810	776	845	709	648	625	694	653
63 Longmeadow Lane, West Branch Du Page River	888	698	869	827	1020	963	1027	770	1373	871	677
89 Walnut Lane, West Branch Du Page River	645	651	622	615	628	755	692	660	700	659	632
64 Lake Street, West Branch Du Page River	710	658	630	684	709	772	742	681	771	690	686
79 Higgins Road, Salt Creek	896	895	734	776	852	959	906	909	803	821	670
80 Arlington Heights Road, Salt Creek	743	749	670	709	781	828	721	746	675	726	735
18 Devon Avenue, Salt Creek	754	771	693	734	861	846	719	639	724	745	736
24 Wolf Road, Salt Creek	783	821	757	955	833	943	846	790	826	883	934
21 First Avenue, Salt Creek	810	806	731	854	816	872	827	783	744	886	918
77 Elehurst Road, Higgins Creek	1120	879	858	1015	930	1081	992	1297	922	1024	653
78 Wille Road, Higgins Creek	785	733	700	786	833	828	758	675	752	719	657
12 Lake-Cook Road, Buffalo Creek	860	810	716	753	802	842	777	778	819	817	779
13 Lake-Cook Road, Des Plaines River	676	709	627	714	713	731	695	740	606	684	739
17 Oakton Street, Des Plaines River	711	679	642	738	717	808	698	607	614	684	721
19 Belmont Avenue, Des Plaines River	702	675	637	720	765	802	747	762	657	727	715
20 Roosevelt Road, Des Plaines River	703	681	639	724	775	793	750	750	636	743	715
22 Ogden Avenue, Des Plaines River	743	713	665	745	804	805	779	705	637	769	762
23 Willow Springs Road, Des Plaines River	724	732	673	761	772	815	742	703	629	764	794
29 Stephen Street, Des Plaines River	733	734	671	768	846	850	789	718	678	745	791
91 Material Service Road, Des Plaines River	712	798	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-47

TOTAL VOLATILE SOLIDS MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	11.7	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	4.3	6.6	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	3.9	6.7	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	5.8	5.0	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	2.8	4.5	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	4.6	5.0	ND	ND	ND	ND	ND
101	Poster 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	3.6	4.4	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	3.3	4.5	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	3.3	4.7	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	2.2	3.9	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	2.3	3.5	ND	ND	ND	ND	ND
108	Loewis 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	3.1	3.5	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	3.2	5.8	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.7	4.8	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.0	3.5	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.6	3.8	ND	ND	ND	ND	ND
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	138.9	112.8	135.8	15.2	14.0	ND	ND	135.0	129.9	126.0
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	2.0	2.6	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	4.3	4.7	ND	ND	ND	ND	ND
55	130th Street, Calumet River	ND	ND	ND	ND	2.8	2.7	ND	ND	ND	ND	ND
51	11th 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	6.1	63.1	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	4.4	5.8	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	6.3	3.0	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	9.3	9.0	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	3.1	3.3	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	7.8	5.0	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	6.2	4.9	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	5.0	6.3	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	9.2	6.9	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	9.1	15.9	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	ND	ND	ND	ND	7.0	14.9	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	ND	ND	ND	ND	5.9	15.8	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	ND	ND	ND	ND	8.7	17.3	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	ND	ND	ND	ND	9.4	14.0	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	4.4	7.2	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	6.6	15.8	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	ND	ND	ND	ND	8.6	13.8	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	9.5	16.3	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	5.9	16.4	ND	ND	ND	ND	ND
78	Wills Road, Higgins Creek	ND	ND	ND	ND	4.5	10.0	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	7.1	13.4	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	7.3	9.4	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	8.6	12.8	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	9.2	11.8	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	9.3	10.4	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	9.6	10.8	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	7.5	13.8	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	8.4	13.8	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-48

TOTAL SUSPENDED SOLIDS MEAN HISTORY THROUGH 2001

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</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>91</u>
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	71.0	120.0	ND	ND	ND	97.0	40.6	41.0	42.7	63.8	93.1
106	Dundee Road, West Fork North Branch Chicago River	46.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	32.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	38.8	22.6	24.7	36.2	22.7	32.0	30.9	20.3	47.7	31.0	63.2
104	Glenview Road, North Branch Chicago River	22.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	21.8	14.3	24.0	15.2	13.2	23.9	32.6	13.9	47.9	33.5	44.2
105	Frontage Road, Skokie River	22.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	25.8	28.6	29.6	31.8	27.4	22.5	31.0	20.8	38.5	40.3	25.0
96	Albany Avenue, North Branch Chicago River	21.6	15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	Central Street, North Shore Channel	9.8	13.6	9.9	8.9	10.8	11.6	15.3	8.1	15.8	15.2	20.3
102	Oakton Street, North Shore Channel	16.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Trouby Avenue, North Shore Channel	8.5	10.8	10.3	10.3	9.4	11.5	13.7	12.2	12.0	17.7	13.3
101	Poster Avenue, North Shore Channel	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	16.8	15.0	13.0	10.6	12.3	13.1	14.8	9.6	13.8	13.9	17.9
73	Diversey Parkway, North Branch Chicago River	17.9	15.3	16.5	14.9	11.8	18.7	16.3	10.0	21.8	16.2	11.5
46	Grand Avenue, North Branch Chicago River	17.6	15.2	17.2	12.0	13.4	18.6	15.7	11.3	16.1	18.6	12.9
74	Lake Shore Drive, Chicago River	4.8	12.8	6.0	5.3	8.6	14.9	11.2	6.3	19.1	10.2	8.8
100	Wells Street, Chicago River	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	16.8	15.2	16.3	12.3	11.1	14.8	21.1	11.4	18.2	17.0	14.0
108	Loomis Street, South Branch Chicago River	17.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	19.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	19.1	14.0	13.4	13.8	13.6	28.8	12.0	14.8	17.1	16.7
107	Western Avenue, Chicago Sanitary & Ship Canal	19.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	20.8	16.5	18.5	13.7	14.2	16.8	18.5	16.1	19.7	17.9	15.8
41	Harlem Avenue, Chicago Sanitary & Ship Canal	10.8	11.5	13.2	10.0	12.2	14.3	11.8	15.7	10.2	21.5	11.2
42	Route 83, Chicago Sanitary & Ship Canal	12.1	8.8	8.3	10.5	11.2	9.0	15.3	15.5	17.1	18.1	11.7
48	Stephen Street, Chicago Sanitary & Ship Canal	15.2	16.8	11.5	15.3	15.9	17.5	29.3	18.5	29.3	29.8	19.2
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	19.2	37.0	57.4	64.3	38.3	12.1	15.3	15.5	16.2	18.6
92	Lockport Forebay, Chicago Sanitary & Ship Canal	15.5	15.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	11.3	12.6	12.3	15.3	10.8	14.5	27.7	17.8	10.5	17.6	ND
50	Burnham Avenue, Wolf Lake	7.4	4.7	5.4	10.7	8.2	14.3	14.2	22.3	8.1	12.9	8.1
55	130th Street, Calumet River	20.7	14.0	8.6	10.4	12.3	12.8	10.7	15.8	11.3	7.3	13.9
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	16.9	23.5	16.4	18.2	14.6	182.6	30.9	38.1	38.8	64.2	17.5
56	Indiana Avenue, Little Calumet River	29.6	22.2	26.4	18.0	24.5	37.3	53.4	43.2	40.1	33.7	34.0
76	Halsted Street, Little Calumet River	15.4	11.6	12.7	20.7	26.3	17.3	26.6	29.7	24.0	22.1	18.4
52	Wentworth Avenue, Little Calumet River	53.5	55.4	67.3	94.4	67.2	64.1	33.6	74.3	55.3	43.5	111.8
54	Joe Orr Road, Thorn Creek	13.6	24.1	16.6	15.2	14.6	9.8	19.5	26.5	38.4	12.0	17.2
97	170th Street, Thorn Creek	38.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	39.4	28.5	34.9	57.3	42.0	31.9	32.0	54.2	44.7	30.1	93.7
58	Ashland Avenue, Cal-Sag Channel	27.7	17.9	18.2	18.9	35.4	29.7	29.2	35.5	38.2	19.3	76.2
59	Cicero Avenue, Cal-Sag Channel	20.7	19.8	22.3	27.6	28.5	39.7	48.2	44.7	39.4	27.4	75.3
43	Route 83, Cal-Sag Channel	35.8	38.2	23.7	24.3	40.0	46.6	39.9	45.4	66.2	32.6	61.0
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	18.2	36.4	23.1	17.7	49.6	122.1	25.8	21.7	36.2	26.9	27.3
63	Longmeadow Lane, West Branch Du Page River	30.3	40.0	21.1	22.6	25.6	83.0	85.0	29.9	35.8	23.7	23.4
89	Walnut Lane, West Branch Du Page River	18.8	23.5	19.6	13.5	16.8	74.1	55.0	27.3	28.3	18.9	19.3
64	Lake Street, West Branch Du Page River	42.0	45.9	35.5	32.8	37.7	86.5	48.7	42.3	44.1	32.4	40.6
79	Higgins Road, Salt Creek	33.9	41.2	33.7	29.0	41.0	77.5	37.4	34.9	43.1	27.5	42.6
80	Arlington Heights Road, Salt Creek	11.3	11.7	14.4	8.5	14.8	17.5	16.4	12.1	14.5	11.3	10.3
18	Devon Avenue, Salt Creek	23.1	27.4	31.3	13.8	35.8	47.1	18.2	18.9	20.8	12.5	14.5
24	Wolf Road, Salt Creek	31.0	37.6	33.0	24.7	48.4	66.6	51.5	47.8	58.6	54.9	76.2
21	First Avenue, Salt Creek	29.3	40.6	33.6	26.3	52.9	83.0	38.6	50.5	78.3	39.3	69.9
77	Elmhurst Road, Higgins Creek	28.2	39.3	43.9	22.8	30.1	105.9	83.5	113.1	48.1	40.9	52.0
78	Wille Road, Higgins Creek	5.5	12.4	5.0	11.9	12.8	42.3	34.7	26.0	18.1	11.6	13.4
12	Lake-Cook Road, Buffalo Creek	33.3	74.6	54.2	27.4	36.7	72.3	30.5	46.6	48.2	29.3	54.1
13	Lake-Cook Road, Des Plaines River	29.8	33.8	32.8	32.3	42.4	45.2	28.3	36.2	41.1	29.7	41.8
17	Oakton Street, Des Plaines River	29.8	45.9	36.2	40.5	50.3	60.9	44.8	40.3	43.3	40.2	52.8
19	Belmont Avenue, Des Plaines River	26.3	32.2	27.7	24.0	53.3	60.3	44.8	50.6	45.4	35.8	56.4
20	Roosevelt Road, Des Plaines River	26.6	21.0	27.3	25.0	50.1	51.1	37.1	41.1	49.3	35.0	44.2
22	Ogden Avenue, Des Plaines River	27.3	34.3	29.7	27.6	56.9	52.2	36.0	45.9	61.1	35.3	51.2
23	Willow Springs Road, Des Plaines River	33.2	43.9	30.5	37.9	44.1	59.9	39.3	46.3	41.3	38.4	44.3
29	Stephen Street, Des Plaines River	44.1	42.5	39.4	38.6	46.1	70.0	42.6	56.4	57.4	49.8	53.8
91	Material Service Road, Des Plaines River	45.1	38.7	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-49

VOLATILE SUSPENDED SOLIDS MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	12.00	19.00	ND	ND	ND	ND	ND	ND	7.22	9.50	15.83
106	Dundas Road, West Fork North Branch Chicago River	7.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	6.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	6.36	4.60	5.09	6.25	ND	ND	ND	ND	8.83	6.36	14.90
104	Glenview Road, North Branch Chicago River	5.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	4.45	3.50	4.64	3.50	ND	ND	ND	ND	8.75	8.09	9.90
105	Frontage Road, Skokie River	5.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Deerpater Street, North Branch Chicago River	5.67	6.45	5.82	6.42	ND	ND	ND	ND	7.50	8.13	6.58
96	Albany Avenue, North Branch Chicago River	6.33	4.50	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	2.22	3.56	2.80	2.33	ND	ND	ND	ND	2.83	2.73	3.55
102	Oakton Street, North Shore Channel	3.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	3.83	4.50	4.08	4.08	ND	ND	ND	ND	5.36	5.67	4.67
101	Poster Avenue, North Shore Channel	3.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	4.92	4.83	3.58	3.00	ND	ND	ND	ND	4.50	5.25	5.42
73	Diversey Parkway, North Branch Chicago River	5.08	3.75	3.75	3.33	ND	ND	ND	ND	5.68	4.08	4.25
46	Grand Avenue, North Branch Chicago River	4.25	3.75	3.67	2.83	ND	ND	ND	ND	4.58	4.67	4.08
74	Lake Shore Drive, Chicago River	1.42	4.67	1.64	1.50	ND	ND	ND	ND	4.25	2.67	2.25
100	Wells Street, Chicago River	3.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	3.33	3.75	3.83	3.25	ND	ND	ND	ND	4.08	4.42	3.92
108	Loomis Street, South Branch Chicago River	3.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork North Branch Chicago River	7.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	4.11	3.18	3.17	ND	ND	ND	ND	3.67	4.98	3.50
107	Western Avenue, Chicago Sanitary & Ship Canal	4.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	5.00	3.67	3.83	3.17	ND	ND	ND	ND	4.25	3.58	4.25
41	Harlan Avenue, Chicago Sanitary & Ship Canal	3.17	3.58	3.64	3.17	ND	ND	ND	ND	3.42	5.25	3.58
42	Route 83, Chicago Sanitary & Ship Canal	3.17	2.36	2.75	3.08	ND	ND	ND	ND	4.67	5.67	3.42
48	Stephen Street, Chicago Sanitary & Ship Canal	3.42	3.82	2.73	3.42	ND	ND	ND	ND	5.92	6.00	5.42
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	4.71	7.39	12.08	ND	ND	5.34	6.29	5.43	6.06	5.49
92	Lockport Forabay, Chicago Sanitary & Ship Canal	3.57	3.68	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	1.58	2.00	2.05	2.21	ND	ND	ND	ND	2.33	3.00	ND
50	Burnham Avenue, Wolf Lake	3.45	2.08	2.25	4.33	ND	ND	ND	ND	4.50	5.42	4.92
55	130th Street, Calumet River	4.09	2.73	1.94	1.96	ND	ND	ND	ND	3.67	2.00	2.64
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	5.90	10.00	5.55	7.83	ND	ND	ND	ND	13.75	9.42	8.58
56	Indiana Avenue, Little Calumet River	5.38	3.92	4.74	3.39	ND	ND	ND	ND	7.67	5.08	6.08
76	Halsted Street, Little Calumet River	4.25	2.75	3.00	7.46	ND	ND	ND	ND	5.83	4.83	5.33
52	Wentworth Avenue, Little Calumet River	9.95	9.91	19.73	17.00	ND	ND	ND	ND	8.00	4.58	13.75
54	Joe Orr Road, Thorn Creek	2.58	4.83	3.25	4.17	ND	ND	ND	ND	5.42	3.33	4.25
97	170th Street, Thorn Creek	5.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	6.70	4.91	5.91	9.33	ND	ND	ND	ND	6.27	6.08	12.55
58	Ashland Avenue, Cal-Sag Channel	5.83	3.50	3.63	3.44	ND	ND	ND	ND	7.33	4.00	10.92
59	Cicero Avenue, Cal-Sag Channel	4.17	3.25	4.00	5.00	ND	ND	ND	ND	6.42	5.83	10.75
43	Route 83, Cal-Sag Channel	6.25	5.00	4.00	4.33	ND	ND	ND	ND	6.42	5.75	9.25
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	4.45	6.29	4.70	4.00	ND	ND	ND	ND	7.00	5.91	6.36
63	Longmeadow Lane, West Branch Du Page River	4.00	9.00	5.22	6.25	ND	ND	ND	ND	8.92	7.27	6.00
89	Walnut Lane, West Branch Du Page River	4.75	6.42	5.91	5.50	ND	ND	ND	ND	6.83	4.58	6.25
64	Lake Street, West Branch Du Page River	9.00	10.55	7.82	8.17	ND	ND	ND	ND	9.58	7.50	10.58
79	Higgins Road, Salt Creek	9.30	10.10	10.30	8.70	ND	ND	ND	ND	9.36	6.45	8.40
80	Arlington Heights Road, Salt Creek	3.75	3.67	3.73	3.67	ND	ND	ND	ND	4.42	3.83	3.75
18	Devon Avenue, Salt Creek	5.00	5.33	5.27	3.42	ND	ND	ND	ND	6.42	4.17	4.42
24	Wolf Road, Salt Creek	5.50	6.60	5.55	5.17	ND	ND	ND	ND	10.08	8.58	11.17
21	First Avenue, Salt Creek	4.75	6.80	5.91	4.50	ND	ND	ND	ND	12.33	7.27	10.67
77	Elmhurst Road, Higgins Creek	6.36	8.60	9.55	4.92	ND	ND	ND	ND	8.42	7.64	9.00
78	Wille Road, Higgins Creek	2.75	4.00	2.55	3.83	ND	ND	ND	ND	4.67	3.92	3.55
12	Lake-Cook Road, Buffalo Creek	7.00	11.40	8.64	5.64	ND	ND	ND	ND	10.67	6.42	9.42
13	Lake-Cook Road, Des Plaines River	6.92	6.50	5.64	6.50	ND	ND	ND	ND	7.42	5.67	8.00
17	Oakton Street, Des Plaines River	6.17	8.80	6.45	8.33	ND	ND	ND	ND	8.75	7.73	9.42
19	Belmont Avenue, Des Plaines River	5.83	5.60	4.82	5.08	ND	ND	ND	ND	8.25	6.83	9.50
20	Roosevelt Road, Des Plaines River	5.75	5.70	5.00	4.50	ND	ND	ND	ND	8.67	6.67	7.75
22	Ogden Avenue, Des Plaines River	5.92	6.10	5.09	5.42	ND	ND	ND	ND	11.09	6.59	8.83
23	Willow Springs Road, Des Plaines River	6.75	7.80	5.64	7.25	ND	ND	ND	ND	8.25	8.83	9.25
29	Stephen Street, Des Plaines River	9.50	7.30	7.45	8.42	ND	ND	ND	ND	11.08	10.50	10.92
91	Material Service Road, Des Plaines River	8.98	8.06	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-50

TOTAL DISSOLVED SOLIDS MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	1870	1828	ND	ND	ND	729	655	526	757	651	644
106	Dundee Road, West Fork North Branch Chicago River	894	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	709	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	669	747	669	713	705	715	658	650	671	617	575
104	Glenview Road, North Branch Chicago River	608	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	715	814	680	757	827	795	661	744	651	685	623
105	Frontage Road, Skokie River	589	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	729	835	697	697	632	858	661	739	635	667	681
96	Albany Avenue, North Branch Chicago River	652	601	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	220	350	289	267	235	316	225	198	339	210	185
102	Oakton Street, North Shore Channel	254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Youby Avenue, North Shore Channel	534	563	563	519	502	503	529	475	423	549	427
101	Poster Avenue, North Shore Channel	463	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	600	639	650	585	572	551	597	512	651	414	451
73	Diversey Parkway, North Branch Chicago River	624	639	639	577	610	578	549	504	555	429	502
46	Grand Avenue, North Branch Chicago River	585	572	579	608	533	610	601	495	480	434	479
74	Lake Shore Drive, Chicago River	398	389	291	315	227	221	219	209	300	216	243
100	Wells Street, Chicago River	368	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	548	502	467	480	359	410	370	344	387	329	374
108	Loomis Street, South Branch Chicago River	401	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	431	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	533	472	522	421	501	362	417	424	370	361
107	Western Avenue, Chicago Sanitary & Ship Canal	469	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	502	501	459	533	421	510	480	408	413	320	405
41	Harlem Avenue, Chicago Sanitary & Ship Canal	574	607	600	598	343	557	532	488	512	417	481
42	Route 83, Chicago Sanitary & Ship Canal	624	558	600	585	569	578	538	550	468	419	544
48	Stephen Street, Chicago Sanitary & Ship Canal	615	616	570	607	601	624	551	577	579	478	611
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	792	597	574	594	599	611	568	ND	505	533
92	Lockport Forebay, Chicago Sanitary & Ship Canal	628	665	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	290	269	247	313	311	249	213	239	236	282	ND
50	Burnham Avenue, Wolf Lake	258	250	226	275	257	258	231	248	253	245	245
55	130th Street, Calumet River	374	350	334	329	318	323	338	291	357	376	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	782	911	897	972	925	1181	1152	1075	930	999	1019
56	Indiana Avenue, Little Calumet River	385	466	440	496	503	479	405	527	567	460	520
76	Halsted Street, Little Calumet River	606	685	651	564	626	717	622	643	690	603	648
52	Wentworth Avenue, Little Calumet River	653	780	705	645	747	754	628	812	725	781	626
54	Joe Orr Road, Thorn Creek	1218	1116	1080	1167	1258	1080	923	818	795	863	843
97	170th Street, Thorn Creek	822	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	739	937	870	725	876	891	785	720	679	783	677
58	Ashland Avenue, Cal-Sag Channel	641	735	622	588	708	719	617	607	671	655	591
59	Cicero Avenue, Cal-Sag Channel	616	756	639	614	706	682	636	596	658	630	543
43	Route 83, Cal-Sag Channel	638	732	638	649	675	688	604	646	715	727	508
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	715	620	649	792	726	723	683	626	588	667	626
63	Longmeadow Lane, West Branch Du Page River	858	658	848	804	994	880	942	740	1336	847	654
89	Walnut Lane, West Branch Du Page River	626	628	603	602	611	681	637	632	672	640	612
64	Lake Street, West Branch Du Page River	668	612	595	651	671	685	693	639	727	658	646
79	Higgins Road, Salt Creek	862	854	700	747	811	882	869	874	660	793	627
80	Arlington Heights Road, Salt Creek	732	738	655	701	766	811	704	734	660	715	704
18	Devon Avenue, Salt Creek	731	743	662	721	825	799	701	620	703	733	721
24	Wolf Road, Salt Creek	752	784	724	931	785	877	794	742	767	828	858
21	First Avenue, Salt Creek	780	765	697	828	763	789	798	733	666	847	848
77	Elmhurst Road, Higgins Creek	1092	840	814	992	900	975	909	1184	874	983	601
78	Wille Road, Higgins Creek	780	721	695	774	821	786	723	649	734	708	644
12	Lake-Cook Road, Buffalo Creek	827	735	662	726	765	769	747	731	771	788	724
13	Lake-Cook Road, Des Plaines River	646	675	594	682	670	685	666	704	565	654	697
17	Oakton Street, Des Plaines River	681	633	606	697	667	747	653	567	571	644	668
19	Belmont Avenue, Des Plaines River	676	643	609	696	712	742	703	711	612	692	658
20	Roosevelt Road, Des Plaines River	676	650	611	699	725	742	713	709	589	708	671
22	Ogden Avenue, Des Plaines River	716	679	635	718	747	753	743	659	576	734	711
23	Willow Springs Road, Des Plaines River	690	688	642	723	728	755	703	657	588	726	750
29	Stephen Street, Des Plaines River	689	692	632	729	800	780	747	662	621	695	736
91	Material Service Road, Des Plaines River	667	759	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-51

TOTAL DISSOLVED VOLATILE SOLIDS MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<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	Dempester Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	124	121
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	IHS 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, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-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	Longsadow 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
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-52

PHENOLS MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (µg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	21.0	10.0	ND	ND	ND	10.5	11.6	7.0	15.4	7.4	15.5
106 Dundee Road, West Fork North Branch Chicago River	18.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	16.5	24.5	26.0	14.8	17.3	19.3	12.0	18.8	16.8	7.4	23.8
104 Glenview Road, North Branch Chicago River	11.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	15.3	19.6	21.0	13.4	15.8	14.8	13.1	13.9	19.9	7.5	24.6
105 Frontage Road, Skokie River	10.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	11.7	18.0	16.0	9.6	11.2	11.8	9.6	11.8	14.0	6.6	15.8
96 Albany Avenue, North Branch Chicago River	13.1	14.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	4.6	13.3	12.4	10.3	8.8	15.1	10.0	8.9	6.6	3.8	4.8
102 Oakton Street, North Shore Channel	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	14.3	22.2	20.4	13.4	13.5	12.3	9.3	12.9	14.3	7.8	10.9
101 Foster Avenue, North Shore Channel	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	13.3	20.6	18.7	11.4	12.6	13.0	9.5	13.9	13.0	7.8	12.3
73 Diversey Parkway, North Branch Chicago River	13.8	20.8	17.8	12.1	13.2	11.3	9.3	11.1	14.2	7.6	11.5
46 Grand Avenue, North Branch Chicago River	15.0	21.4	18.8	14.1	13.1	11.8	9.9	12.3	14.3	10.8	11.4
74 Lake Shore Drive, Chicago River	7.3	15.6	9.2	9.3	7.0	7.2	5.5	9.9	6.5	5.9	4.7
100 Wells Street, Chicago River	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	10.9	23.0	15.8	12.7	9.3	8.0	6.8	7.0	11.6	6.5	9.2
108 Loomis Street, South Branch Chicago River	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	17.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	23.0	15.6	11.3	12.1	8.8	9.7	11.7	10.8	8.4	11.5
107 Western Avenue, Chicago Sanitary & Ship Canal	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	11.7	17.5	16.0	13.6	11.1	10.4	11.8	9.8	9.8	7.6	11.6
41 Harlem Avenue, Chicago Sanitary & Ship Canal	14.8	18.5	15.3	12.5	14.1	12.4	8.4	16.8	15.2	7.5	14.3
42 Route 83, Chicago Sanitary & Ship Canal	13.4	19.1	17.4	13.4	10.4	10.8	10.7	13.3	15.1	6.7	13.0
48 Stephen Street, Chicago Sanitary & Ship Canal	12.8	21.8	17.9	14.9	12.7	11.6	13.5	14.8	17.8	9.4	17.3
82 Lockport Treblier, Chicago Sanitary & Ship Canal	ND	15.3	10.5	12.6	10.9	10.2	8.2	10.3	13.5	9.6	19.1
92 Lockport Forebay, Chicago Sanitary & Ship Canal	10.9	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	3.3	7.3	7.2	5.7	8.0	6.8	5.6	8.8	8.4	4.0	ND
50 Burnham Avenue, Wolf Lake	5.0	11.6	10.0	10.8	8.6	9.3	7.5	10.1	10.8	4.8	11.8
55 130th Street, Calumet River	5.0	10.5	8.2	6.9	8.0	7.5	7.5	13.1	10.0	4.8	10.2
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	8.0	22.8	20.0	14.4	10.4	34.5	12.0	20.6	19.2	12.3	18.8
56 Indiana Avenue, Little Calumet River	6.0	13.1	15.3	7.4	7.6	6.2	8.0	9.5	13.0	19.3	14.2
76 Halsted Street, Little Calumet River	11.4	24.1	46.6	13.8	12.8	13.3	12.1	17.4	53.0	12.7	26.3
52 Wentworth Avenue, Little Calumet River	12.5	21.5	23.1	13.4	12.5	12.9	14.8	13.3	17.7	8.8	23.8
54 Joe Orr Road, Thorn Creek	10.2	19.7	18.8	11.2	15.2	14.4	10.4	14.3	18.7	7.8	16.2
97 170th Street, Thorn Creek	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	11.9	19.9	21.1	15.8	14.0	14.4	11.4	15.4	21.7	8.3	22.3
58 Ashland Avenue, Cal-Sag Channel	11.8	21.1	22.6	17.5	15.3	13.7	13.1	14.8	20.1	13.1	28.9
59 Cicero Avenue, Cal-Sag Channel	13.5	20.6	26.3	15.4	14.2	20.0	13.1	15.7	23.9	14.8	27.7
43 Route 83, Cal-Sag Channel	11.5	19.1	21.5	16.1	12.7	13.8	12.3	14.6	22.9	11.7	28.3
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	10.4	17.3	16.3	14.2	16.1	11.1	8.8	10.1	13.7	7.0	21.3
63 Longmeadow Lane, West Branch Du Page River	18.0	20.1	18.8	14.3	14.4	17.9	9.6	19.6	14.3	9.2	19.6
89 Walnut Lane, West Branch Du Page River	17.1	19.7	20.1	16.9	13.0	14.7	9.2	10.7	15.9	6.8	18.1
64 Lake Street, West Branch Du Page River	15.8	22.5	19.3	15.3	13.6	14.7	10.5	15.7	15.0	9.0	18.3
79 Higgins Road, Salt Creek	13.4	17.1	16.6	15.3	12.8	12.1	8.1	10.1	13.0	5.6	20.6
80 Arlington Heights Road, Salt Creek	15.3	18.2	20.3	13.2	12.8	12.0	8.9	11.1	14.8	7.0	16.7
18 Devon Avenue, Salt Creek	16.2	17.6	19.5	13.7	13.3	22.0	9.8	10.3	14.2	7.3	16.0
24 Wolf Road, Salt Creek	12.4	17.1	16.3	9.5	12.7	10.2	9.6	11.6	14.8	7.1	16.5
21 First Avenue, Salt Creek	11.9	20.1	16.3	11.9	11.5	10.5	9.6	11.0	14.3	7.2	17.2
77 Elmhurst Road, Higgins Creek	14.9	28.4	21.6	14.4	17.0	12.8	9.1	9.2	13.8	6.2	19.1
78 Wille Road, Higgins Creek	19.0	26.6	25.0	14.8	16.7	12.1	9.1	11.3	17.2	7.9	13.4
12 Lake-Cook Road, Buffalo Creek	10.6	21.7	20.1	15.0	12.9	13.2	7.9	12.2	13.2	7.7	19.6
13 Lake-Cook Road, Des Plaines River	11.4	18.3	16.7	12.4	12.6	10.2	7.2	8.9	16.2	8.1	15.6
17 Oakton Steet, Des Plaines River	11.5	19.6	17.0	12.6	12.9	10.2	9.3	3.7	17.2	7.5	14.3
19 Belmont Avenue, Des Plaines River	11.8	20.3	17.9	13.5	13.3	10.4	8.7	12.4	16.5	9.3	18.0
20 Roosevelt Road, Des Plaines River	11.3	19.7	18.7	13.2	13.6	10.0	9.7	10.8	15.7	8.0	18.7
22 Ogden Avenue, Des Plaines River	12.5	19.6	16.9	11.5	13.9	11.3	8.4	14.0	14.7	8.3	18.0
23 Willow Springs Road, Des Plaines River	11.5	16.9	16.1	12.2	13.8	10.9	9.3	12.2	15.6	8.8	16.1
29 Stephen Street, Des Plaines River	14.8	16.3	18.1	13.6	13.0	9.9	10.3	14.1	15.3	9.0	15.8
91 Material Service Road, Des Plaines River	9.9	18.2	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-53

SULFATE MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	74.5	77.0	ND	ND	ND	63.6	70.3	57.0	90.9	92.3	80.0
106	Dundas Road, West Fork North Branch Chicago River	67.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	61.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	69.0	72.0	71.9	77.9	62.9	72.5	81.2	82.0	82.7	98.6	96.6
104	Glenview Road, North Branch Chicago River	64.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	70.4	74.4	79.2	87.6	78.6	89.2	78.0	90.1	90.8	106.8	106.1
105	Frontage Road, Skokie River	62.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	63.2	76.1	72.4	77.9	79.4	81.7	88.5	96.4	79.8	97.5	95.5
96	Albany Avenue, North Branch Chicago River	65.8	59.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	25.6	32.5	34.3	34.1	32.1	34.3	39.4	36.8	42.8	38.8	41.2
102	Oakton Street, North Shore Channel	28.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	79.8	53.8	51.3	54.2	45.0	51.4	55.1	56.9	57.5	54.9	66.0
101	Foster Avenue, North Shore Channel	49.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	57.3	53.8	55.7	56.9	52.2	56.7	61.8	57.6	68.5	62.5	67.0
73	Diversey Parkway, North Branch Chicago River	58.2	55.8	68.5	56.5	48.8	61.1	64.7	56.5	65.2	68.1	67.9
46	Grand Avenue, North Branch Chicago River	56.3	55.4	59.2	60.1	53.1	60.2	76.6	58.7	65.3	62.9	69.3
74	Lake Shore Drive, Chicago River	32.0	39.3	32.6	29.9	24.8	28.1	40.2	34.9	40.9	37.4	41.2
100	Wells Street, Chicago River	36.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	45.8	50.4	51.3	47.2	37.1	39.7	50.1	46.6	57.4	47.8	60.9
108	Loomis Street, South Branch Chicago River	43.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	51.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	51.9	51.1	50.5	45.0	47.5	46.1	48.0	55.8	54.9	61.9
107	Western Avenue, Chicago Sanitary & Ship Canal	43.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	46.8	51.6	50.0	45.5	39.0	47.1	60.9	50.6	55.3	54.7	68.1
41	Harlem Avenue, Chicago Sanitary & Ship Canal	63.6	72.3	75.6	75.7	64.5	74.0	71.6	66.8	72.3	59.6	74.4
42	Route 83, Chicago Sanitary & Ship Canal	67.1	70.8	72.2	69.6	68.8	70.6	73.9	75.4	78.5	69.2	81.4
48	Stephen Street, Chicago Sanitary & Ship Canal	88.9	92.3	91.5	80.7	84.9	89.4	95.7	95.2	103.8	98.9	110.3
82	Lockport Treble, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	100.9	89.5	97.1	85.0	101.3
92	Lockport Forebay, Chicago Sanitary & Ship Canal	91.1	96.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	28.3	29.8	29.8	25.1	23.9	27.5	50.8	43.0	44.2	35.7	ND
50	Burnham Avenue, Wolf Lake	38.9	38.6	35.3	32.2	33.0	31.5	63.2	44.9	48.1	42.2	55.3
55	130th Street, Calumet River	63.3	49.8	50.6	43.4	52.2	46.1	72.4	53.1	70.8	84.9	86.3
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	184.3	177.2	157.5	195.7	173.8	229.5	247.4	299.3	225.0	278.4	277.4
56	Indiana Avenue, Little Calumet River	73.4	77.8	72.4	88.2	83.9	76.4	103.6	98.7	108.8	96.2	122.0
76	Halsted Street, Little Calumet River	113.3	143.1	125.0	119.0	112.8	154.5	163.2	142.3	153.5	165.3	159.8
52	Wentworth Avenue, Little Calumet River	122.5	145.1	131.2	122.0	128.8	143.7	144.9	162.5	150.0	178.7	160.8
54	Joe Orr Road, Thorn Creek	521.3	342.4	380.1	355.8	391.1	312.9	205.8	173.5	162.5	178.0	218.0
97	170th Street, Thorn Creek	255.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	161.0	190.1	229.8	158.0	179.7	216.8	174.1	161.0	138.7	177.1	180.9
58	Ashland Avenue, Cal-Sag Channel	110.3	163.6	133.2	133.6	94.2	139.6	147.1	139.3	144.8	145.5	154.8
59	Cicero Avenue, Cal-Sag Channel	124.3	151.8	133.9	139.3	130.7	143.1	156.8	137.8	146.2	149.2	151.2
43	Route 83, Cal-Sag Channel	116.6	144.1	132.4	135.7	126.7	134.4	127.0	141.5	146.4	151.7	152.7
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	63.0	60.4	58.0	71.2	54.6	58.9	85.6	82.4	81.0	114.8	106.8
63	Longmeadow Lane, West Branch Du Page River	83.5	71.7	87.1	79.9	76.9	60.2	90.7	89.4	90.4	137.4	98.5
89	Walnut Lane, West Branch Du Page River	73.5	69.3	68.7	67.9	61.0	79.2	75.1	76.4	47.8	86.9	86.9
64	Lake Street, West Branch Du Page River	77.8	68.5	70.5	71.3	64.7	65.8	122.5	78.7	77.5	101.3	100.8
79	Higgins Road, Salt Creek	89.5	79.5	74.9	78.4	67.0	73.8	91.6	97.6	90.5	127.7	105.0
80	Arlington Heights Road, Salt Creek	84.4	73.9	83.6	81.3	72.7	79.2	88.5	91.0	85.6	119.3	99.5
18	Devon Avenue, Salt Creek	82.4	74.0	74.5	76.3	77.0	68.9	97.4	92.9	86.8	114.8	106.3
24	Wolf Road, Salt Creek	98.7	89.4	94.5	108.9	87.4	100.9	107.1	103.8	190.4	126.7	120.8
21	First Avenue, Salt Creek	94.2	86.2	90.1	104.4	87.2	81.2	112.5	102.5	92.7	124.1	121.6
77	Elmhurst Road, Higgins Creek	60.9	47.0	55.4	66.4	48.9	81.9	84.8	68.4	72.3	92.1	87.8
78	Wille Road, Higgins Creek	107.8	94.5	99.3	96.5	88.7	96.3	103.0	101.6	97.0	116.0	101.5
12	Lake-Cook Road, Buffalo Creek	98.4	106.5	103.8	92.9	83.9	87.5	117.3	101.2	98.2	135.2	120.4
13	Lake-Cook Road, Des Plaines River	76.8	81.0	71.1	87.9	80.6	89.1	119.2	117.6	92.7	110.8	136.4
17	Oakton Street, Des Plaines River	85.8	75.5	73.4	83.4	75.3	88.2	114.0	80.5	84.2	121.5	124.8
19	Belmont Avenue, Des Plaines River	79.5	78.1	78.3	86.3	76.1	88.2	120.5	107.5	85.3	124.8	114.2
20	Roosevelt Road, Des Plaines River	80.5	78.5	75.6	84.3	75.4	91.0	105.4	105.5	85.8	120.1	116.1
22	Ogden Avenue, Des Plaines River	98.9	79.2	77.7	87.7	78.2	84.2	112.5	94.0	86.3	122.5	121.3
23	Willow Springs Road, Des Plaines River	83.8	85.5	83.2	90.6	81.6	97.2	105.3	105.5	87.3	125.8	123.2
29	Stephen Street, Des Plaines River	82.9	83.4	79.6	90.0	87.2	95.1	106.6	104.4	95.3	129.3	122.4
91	Material Service Road, Des Plaines River	81.2	89.1	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-54

FATS, OILS, AND GREASES MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	4.50	7.44	4.00	9.89	6.73	6.50
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	11.63	5.49	3.13	5.50	10.40	13.25	10.45	5.00
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	4.37	5.74	1.88	8.33	7.11	12.17	8.00	7.90
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	3.63	6.06	2.42	8.20	5.82	12.50	7.33	6.08
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	6.01	2.00	5.38	5.00	13.83	8.09	9.09
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.79	ND	ND	3.97	6.50	1.92	9.33	9.27	12.00	7.42	8.50
101 Foster Avenue, North Shore Channel	3.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.56	ND	ND	4.27	8.40	5.08	6.67	8.00	13.88	7.33	6.33
73 Diversey Parkway, North Branch Chicago River	8.94	ND	ND	2.45	7.27	3.08	6.00	6.75	12.42	11.08	10.17
46 Grand Avenue, North Branch Chicago River	3.88	ND	ND	2.75	9.51	4.25	13.14	7.67	13.17	15.67	10.58
74 Lake Shore Drive, Chicago River	ND	ND	ND	2.00	2.91	2.91	8.30	6.70	11.75	7.00	7.83
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.16	ND	ND	4.85	3.65	2.17	7.36	4.40	10.98	6.92	8.17
108 Loomis Street, South Branch Chicago River	4.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	5.25	3.87	2.67	8.67	8.42	13.67	7.00	11.58
107 Western Avenue, Chicago Sanitary & Ship Canal	3.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.09	ND	ND	2.55	7.41	3.42	9.92	6.17	11.83	7.33	11.50
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.09	ND	ND	2.65	6.26	1.92	7.67	6.67	9.67	6.42	10.33
42 Route 83, Chicago Sanitary & Ship Canal	5.79	ND	ND	3.00	6.58	3.83	7.42	7.64	10.67	6.25	12.92
48 Stephen Street, Chicago Sanitary & Ship Canal	3.37	ND	ND	1.85	8.13	2.00	11.17	8.33	10.25	7.83	6.50
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	3.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Swing Avenue, Calumet River	ND	ND	ND	3.00	4.70	3.56	4.91	9.18	12.83	5.57	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	4.63	7.42	2.25	5.82	6.83	10.58	6.00	9.25
55 130th Street, Calumet River	ND	ND	ND	2.33	5.42	3.80	5.18	6.91	11.00	5.08	7.73
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	3.17	ND	ND	3.20	11.05	8.91	7.00	6.92	10.67	7.00	9.75
56 Indiana Avenue, Little Calumet River	3.39	ND	ND	3.97	4.98	3.78	6.90	6.27	11.00	6.42	12.75
76 Halsted Street, Little Calumet River	4.54	ND	ND	3.80	7.47	1.50	5.91	5.83	11.50	5.08	9.42
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	3.60	6.83	1.67	5.00	5.45	12.92	5.75	11.17
54 Joe Orr Road, Thorn Creek	ND	ND	ND	12.80	8.18	2.73	7.91	5.58	10.50	8.75	6.58
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	3.00	5.43	4.11	6.82	4.50	12.00	6.08	12.00
58 Ashland Avenue, Cal-Sag Channel	4.20	ND	ND	7.50	2.91	6.00	5.42	10.42	4.67	11.00	ND
59 Cicero Avenue, Cal-Sag Channel	3.92	ND	ND	5.07	4.83	5.73	5.36	6.17	13.42	4.42	10.67
43 Route 83, Cal-Sag Channel	4.33	ND	ND	5.53	4.58	5.00	6.60	5.45	12.00	4.08	12.75
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	ND	ND	ND	2.55	7.27	7.91	4.70	10.09	10.91	9.73	8.55
63 Longmeadow Lane, West Branch Du Page River	ND	ND	ND	3.50	8.50	4.55	7.00	7.30	12.55	7.73	8.18
89 Walnut Lane, West Branch Du Page River	ND	ND	ND	5.35	4.60	6.58	6.33	8.33	9.83	8.33	10.00
64 Lake Street, West Branch Du Page River	ND	ND	ND	5.30	7.49	7.55	5.92	7.00	10.83	6.42	10.42
79 Higgins Road, Salt Creek	ND	ND	ND	2.50	7.07	6.10	5.50	8.20	9.55	7.45	10.40
80 Arlington Heights Road, Salt Creek	ND	ND	ND	14.20	6.21	8.42	5.18	6.90	9.83	8.25	10.25
18 Devon Avenue, Salt Creek	ND	ND	ND	9.20	7.16	9.18	7.09	7.25	9.73	8.67	9.00
24 Wolf Road, Salt Creek	ND	ND	ND	5.55	5.30	5.58	6.08	5.73	10.92	9.25	9.58
21 First Avenue, Salt Creek	ND	ND	ND	5.45	6.70	5.92	7.18	6.27	11.67	6.64	9.58
77 Elmhurst Road, Higgins Creek	ND	ND	ND	3.35	4.25	10.58	11.42	7.18	11.33	6.73	13.64
75 Wille Road, Higgins Creek	ND	ND	ND	4.05	4.67	9.83	7.08	7.09	13.42	9.17	9.45
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	3.05	8.94	7.92	7.08	6.40	10.67	8.42	11.83
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	4.15	6.26	7.25	7.73	6.89	9.75	8.42	10.25
17 Oakton Street, Des Plaines River	ND	ND	ND	3.70	6.23	6.67	5.10	6.00	12.33	8.09	8.83
19 Belmont Avenue, Des Plaines River	ND	ND	ND	5.45	4.75	6.50	5.58	6.17	10.00	7.33	9.25
20 Roosevelt Road, Des Plaines River	ND	ND	ND	6.40	4.65	5.58	6.58	7.42	10.42	7.50	8.83
22 Ogden Avenue, Des Plaines River	ND	ND	ND	5.45	5.20	6.54	6.58	5.73	12.75	6.58	11.08
23 Willow Springs Road, Des Plaines River	ND	ND	ND	4.80	6.09	5.18	6.18	6.00	12.25	6.08	13.00
29 Stephen Street, Des Plaines River	ND	ND	ND	3.00	4.56	6.67	5.92	6.09	12.58	4.92	11.50
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-55

TOTAL PHOSPHORUS MEAN HISTORY THROUGH 2001

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	0.545	2.200	ND	ND	ND	2.365	2.019	3.165	1.067	2.251	2.588
106	Dundee Road, West Fork North Branch Chicago River	1.102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.663	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.143	0.185	0.245	0.183	0.198	0.186	0.174	0.204	0.170	0.123	0.203
104	Glenview Road, North Branch Chicago River	0.844	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.150	0.224	0.196	0.152	0.219	0.191	0.206	0.347	0.228	0.401	0.180
105	Frontage Road, Skokie River	0.932	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.624	1.147	1.208	0.777	1.237	1.093	0.889	1.235	0.819	1.069	0.867
96	Albany Avenue, North Branch Chicago River	0.718	1.312	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.058	0.183	0.215	0.129	0.067	0.392	0.140	0.035	0.108	0.085	0.065
102	Oakton Street, North Shore Channel	0.221	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.259	1.214	1.351	1.185	1.189	1.132	0.838	0.958	0.814	0.765	0.939
101	Foster Avenue, North Shore Channel	1.406	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	1.198	1.301	1.388	1.086	1.033	1.039	0.839	0.998	0.831	0.863	0.896
73	Diversey Parkway, North Branch Chicago River	0.889	1.102	1.116	0.843	0.943	0.814	0.623	0.749	0.649	0.796	0.894
46	Grand Avenue, North Branch Chicago River	0.800	1.130	1.120	0.863	0.870	0.938	0.761	0.798	0.717	0.778	0.852
74	Lake Shore Drive, Chicago River	0.291	0.373	0.206	0.202	0.099	0.120	0.100	0.050	0.118	0.087	0.118
100	Wells Street, Chicago River	0.387	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.611	1.130	0.839	0.605	0.465	0.393	0.380	0.346	0.461	0.381	0.487
108	Loomis Street, South Branch Chicago River	0.573	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.610	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	1.046	0.727	0.528	0.570	0.406	0.375	0.542	0.403	0.479	0.502
107	Western Avenue, Chicago Sanitary & Ship Canal	0.609	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.671	0.965	0.690	0.550	0.573	0.458	0.443	0.549	0.390	0.557	0.542
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.990	1.120	1.044	0.853	0.888	0.757	0.731	0.798	0.533	0.583	0.730
42	Route 81, Chicago Sanitary & Ship Canal	0.760	0.755	0.643	0.661	0.678	0.548	0.552	0.771	0.488	0.510	0.648
48	Stephen Street, Chicago Sanitary & Ship Canal	1.096	1.355	1.098	0.859	1.063	0.873	0.828	0.991	0.693	0.950	0.962
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	1.485	1.545	1.211	1.236	1.165	1.088	1.099	0.898	0.984	0.963
92	Lockport Forebay, Chicago Sanitary & Ship Canal	1.032	1.414	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.081	0.131	0.145	0.081	0.088	0.155	0.143	0.054	0.039	0.020	ND
50	Burnham Avenue, Wolf Lake	0.070	0.075	0.234	0.056	0.095	0.094	0.074	0.061	0.054	0.069	0.033
55	130th Street, Calumet River	0.127	0.088	0.197	0.151	0.094	0.092	0.074	0.066	0.069	0.037	0.595
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	0.666	0.537	0.857	0.704	0.465	1.038	0.513	0.662	0.768	1.649	0.591
56	Indiana Avenue, Little Calumet River	0.854	0.373	0.324	0.214	0.152	0.143	0.156	0.230	0.262	0.215	0.205
76	Halsted Street, Little Calumet River	1.386	3.193	2.595	1.885	1.758	1.243	1.623	1.455	1.248	1.640	1.331
52	Wentworth Avenue, Little Calumet River	0.495	0.752	1.168	0.815	0.553	0.528	0.478	0.556	0.376	0.556	0.538
54	Joe Orr Road, Thorn Creek	5.645	5.208	3.000	8.043	8.065	6.090	5.159	4.173	4.538	5.296	5.333
97	170th Street, Thorn Creek	2.296	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.537	2.170	1.522	1.619	1.992	1.736	1.409	1.626	0.946	1.428	1.477
58	Ashland Avenue, Cal-Sag Channel	1.442	3.038	2.190	1.948	1.445	1.470	1.587	1.389	0.946	1.884	1.203
59	Cicero Avenue, Cal-Sag Channel	1.511	3.119	2.396	2.118	1.930	1.623	1.771	1.604	1.278	2.038	1.279
43	Route 83, Cal-Sag Channel	1.619	2.642	2.453	1.832	2.012	1.631	1.521	1.596	1.380	1.623	1.501
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.060	0.181	0.430	0.101	0.424	0.165	0.142	0.102	0.114	0.093	0.114
63	Longmeadow Lane, West Branch Du Page River	0.225	0.184	0.952	0.770	0.547	0.535	0.555	0.811	0.250	0.909	0.757
89	Walnut Lane, West Branch Du Page River	2.428	2.109	2.742	2.903	2.453	2.163	2.271	2.318	1.399	2.420	2.180
64	Lake Street, West Branch Du Page River	2.030	1.649	2.205	2.385	2.007	1.811	1.979	2.025	1.318	2.142	2.108
79	Higgins Road, Salt Creek	0.106	0.249	0.128	0.176	0.169	0.148	0.139	0.109	0.114	0.324	0.191
80	Arlington Heights Road, Salt Creek	1.687	1.688	2.224	1.974	1.575	1.583	1.994	1.802	0.883	1.628	1.479
18	Devon Avenue, Salt Creek	1.810	1.710	2.231	1.855	1.410	1.752	2.052	1.795	0.913	1.948	1.579
24	Wolf Road, Salt Creek	1.227	1.407	1.745	1.497	1.441	1.513	1.502	1.628	1.051	1.411	1.358
21	First Avenue, Salt Creek	1.073	1.239	1.595	1.517	1.469	1.198	1.255	1.443	1.033	1.225	1.259
77	Elmhurst Road, Higgins Creek	0.112	0.184	0.221	0.111	0.115	0.152	0.181	0.215	0.151	0.115	0.258
78	Wille Road, Higgins Creek	0.508	0.578	0.671	1.058	0.988	0.525	0.592	0.551	0.393	0.726	0.544
12	Lake-Cook Road, Buffalo Creek	0.075	0.222	0.239	0.150	0.156	0.158	0.125	0.154	0.258	0.203	0.227
13	Lake-Cook Road, Des Plaines River	0.826	0.984	1.261	0.916	0.736	0.700	0.701	1.179	0.780	0.805	0.853
17	Oakton Street, Des Plaines River	0.691	0.705	0.971	0.764	0.615	0.644	0.671	0.527	0.515	0.742	0.708
19	Belmont Avenue, Des Plaines River	0.590	0.914	0.780	0.684	0.630	0.525	0.578	0.795	0.466	0.576	0.575
20	Roosevelt Road, Des Plaines River	0.546	0.583	0.701	0.660	0.667	0.598	0.553	0.751	0.450	0.568	0.553
22	Ogden Avenue, Des Plaines River	0.658	0.732	0.963	0.849	0.885	0.702	0.738	0.935	0.653	0.792	0.713
23	Willow Springs Road, Des Plaines River	0.618	0.762	0.887	0.797	0.816	0.718	0.688	0.858	0.584	0.696	0.689
29	Stephen Street, Des Plaines River	0.672	0.742	0.940	0.788	0.862	0.763	0.828	0.893	0.626	0.737	0.703
91	Material Service Road, Des Plaines River	0.679	0.914	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-56

SOLUBLE PHOSPHORUS MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.340	1.610	ND	ND	ND	2.010	1.847	3.065	0.938	2.006	2.304
106 Dundee Road, West Fork North Branch Chicago River	0.910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.448	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.028	0.082	0.109	0.116	0.127	0.163	0.100	0.106	0.058	0.053	0.101
104 Glenview Road, North Branch Chicago River	0.520	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.026	0.111	0.108	0.095	0.158	0.118	0.104	0.251	0.112	0.311	0.088
105 Frontage Road, Skokie River	0.633	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.418	0.889	0.920	0.705	0.994	0.857	0.795	1.129	0.676	0.897	0.737
96 Albany Avenue, North Branch Chicago River	0.525	1.103	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.053	0.044	0.098	0.103	0.038	0.271	0.058	0.011	0.073	0.015	0.024
102 Oakton Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.928	0.989	1.066	1.058	0.955	0.872	0.687	0.823	0.741	0.647	0.747
101 Foster Avenue, North Shore Channel	1.168	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Wilson Avenue, North Branch Chicago River	0.830	0.904	1.160	0.977	0.888	0.801	0.738	0.913	0.709	0.761	0.769
107 Diversey Parkway, North Branch Chicago River	0.707	0.814	0.917	0.743	0.761	0.606	0.559	0.678	0.530	0.697	0.755
46 Grand Avenue, North Branch Chicago River	0.682	0.865	0.853	0.873	0.707	0.658	0.692	0.686	0.606	0.649	0.726
74 Lake Shore Drive, Chicago River	0.390	0.270	0.157	0.150	0.057	0.089	0.065	0.020	0.031	0.048	0.098
100 Wells Street, Chicago River	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.594	0.730	0.646	0.501	0.345	0.273	0.270	0.298	0.388	0.303	0.398
108 Loomis Street, South Branch Chicago River	0.555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.703	0.492	0.423	0.426	0.289	0.278	0.467	0.331	0.390	0.371
107 Western Avenue, Chicago Sanitary & Ship Canal	0.537	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.646	0.672	0.459	0.378	0.402	0.320	0.348	0.421	0.283	0.451	0.438
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.618	0.834	0.754	0.737	0.636	0.528	0.634	0.707	0.433	0.482	0.564
42 Route 83, Chicago Sanitary & Ship Canal	0.646	0.571	0.478	0.502	0.512	0.418	0.451	0.664	0.400	0.469	0.498
48 Stephen Street, Chicago Sanitary & Ship Canal	0.970	1.071	0.798	0.717	0.888	0.647	0.689	0.876	0.590	0.790	0.767
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	0.846	1.156	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.046	0.053	0.060	0.041	0.059	0.156	0.090	0.025	0.014	0.009	ND
50 Burnham Avenue, Wolf Lake	0.032	0.040	0.064	0.041	0.063	0.075	0.047	0.029	0.035	0.032	0.013
55 130th Street, Calumet River	0.013	0.045	0.080	0.062	0.058	0.093	0.062	0.031	0.021	0.013	0.539
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	0.155	0.121	0.191	0.329	0.222	0.258	0.127	0.201	0.219	0.448	0.206
56 Indiana Avenue, Little Calumet River	0.090	0.277	0.110	0.161	0.076	0.110	0.061	0.122	0.141	0.123	0.082
76 Halsted Street, Little Calumet River	1.372	2.923	2.684	1.533	1.276	1.033	1.457	1.338	1.103	1.503	1.043
52 Wentworth Avenue, Little Calumet River	0.240	0.384	0.398	0.296	0.313	0.312	0.269	0.346	0.171	0.328	0.288
54 Joe Orr Road, Thorn Creek	5.608	4.875	2.556	7.365	6.853	5.017	4.926	4.028	4.358	5.121	4.849
97 170th Street, Thorn Creek	1.620	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.915	1.882	1.229	1.275	1.697	1.467	1.231	1.424	0.792	1.272	1.193
58 Ashland Avenue, Cal-Sag Channel	1.300	2.720	2.077	1.736	1.045	0.906	1.391	1.217	0.797	1.704	0.856
59 Cicero Avenue, Cal-Sag Channel	1.312	2.794	2.314	1.888	1.586	1.124	1.511	1.393	1.091	1.818	0.925
43 Route 83, Cal-Sag Channel	1.046	2.306	2.348	1.834	1.738	1.186	1.315	1.388	1.088	1.448	1.204
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.020	0.064	0.070	0.074	0.330	0.117	0.070	0.048	0.029	0.028	0.043
63 Longmeadow Lane, West Branch Du Page River	0.137	0.060	0.729	0.684	0.608	0.401	0.360	0.725	0.173	0.843	0.674
89 Walnut Lane, West Branch Du Page River	1.970	1.910	2.243	2.198	2.120	1.728	2.031	2.163	1.272	2.214	2.051
64 Lake Street, West Branch Du Page River	1.772	1.383	1.712	2.048	1.772	1.461	1.708	1.849	1.143	1.894	1.807
79 Higgins Road, Salt Creek	0.000	0.039	0.074	0.109	0.068	0.086	0.056	0.039	0.021	0.271	0.098
80 Arlington Heights Road, Salt Creek	1.265	1.488	1.843	1.751	1.227	1.294	1.743	1.744	0.800	1.254	1.361
18 Devon Avenue, Salt Creek	1.287	1.447	1.868	1.686	1.098	1.440	1.778	1.706	0.830	1.435	1.478
24 Wolf Road, Salt Creek	0.987	1.094	1.369	1.240	1.150	1.058	1.241	1.445	0.861	1.227	1.090
21 First Avenue, Salt Creek	0.937	0.945	1.275	1.300	1.187	0.848	1.066	1.259	0.803	1.045	0.989
77 Elmhurst Road, Higgins Creek	0.026	0.044	0.071	0.073	0.104	0.078	0.068	0.047	0.068	0.012	0.138
78 Wille Road, Higgins Creek	0.265	0.385	0.506	0.823	0.713	0.363	0.480	0.495	0.328	0.640	0.441
12 Lake-Cook Road, Buffalo Creek	0.030	0.037	0.081	0.062	0.075	0.083	0.066	0.048	0.113	0.051	0.072
13 Lake-Cook Road, Des Plaines River	0.412	0.716	1.047	0.736	0.575	0.552	0.603	1.066	0.492	0.690	0.724
17 Oakton Street, Des Plaines River	0.352	0.480	0.741	0.563	0.440	0.458	0.505	0.440	0.390	0.578	0.480
19 Belmont Avenue, Des Plaines River	0.315	0.420	0.609	0.503	0.448	0.387	0.420	0.622	0.331	0.438	0.388
20 Roosevelt Road, Des Plaines River	0.313	0.416	0.562	0.523	0.462	0.387	0.407	0.615	0.308	0.421	0.408
22 Ogden Avenue, Des Plaines River	0.443	0.557	0.769	0.688	0.634	0.459	0.596	0.759	0.469	0.596	0.541
23 Willow Springs Road, Des Plaines River	0.443	0.544	0.679	0.629	0.621	0.459	0.511	0.671	0.432	0.515	0.487
29 Stephen Street, Des Plaines River	0.488	0.575	0.664	0.588	0.641	0.484	0.644	0.698	0.438	0.511	0.490
91 Material Service Road, Des Plaines River	0.380	0.711	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-57

TOTAL CYANIDE MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	0.006	0.009	ND	ND	ND	0.007	0.008	0.011	0.006	0.012	0.014
106	Dundee Road, West Fork North Branch Chicago River	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.002	0.002	0.002	0.002	0.006	0.002	0.004	0.003	0.002	0.002
104	Glenview Road, North Branch Chicago River	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.002	0.003	0.003	0.001	0.002	0.001	0.002	0.003	0.003	0.004	0.003
105	Frontage Road, Skokie River	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.004	0.006	0.005	0.004	0.005	0.004	0.003	0.005	0.005	0.005	0.005
96	Albany Avenue, North Branch Chicago River	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001
102	Oakton Street, North Shore Channel	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.006	0.006	0.005	0.006	0.007	0.006	0.004	0.006	0.006	0.006	0.006
101	Poster Avenue, North Shore Channel	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.005	0.006	0.007	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.006
73	Diversey Parkway, North Branch Chicago River	0.006	0.012	0.008	0.005	0.008	0.005	0.004	0.006	0.007	0.006	0.006
46	Grand Avenue, North Branch Chicago River	0.005	0.006	0.007	0.007	0.005	0.005	0.004	0.008	0.009	0.007	0.007
74	Lake Shore Drive, Chicago River	0.002	0.003	0.001	0.002	0.000	0.001	0.000	0.002	0.002	0.001	0.001
100	Wells Street, Chicago River	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.004	0.005	0.005	0.004	0.003	0.002	0.002	0.004	0.006	0.006	0.005
108	Loomis Street, South Branch Chicago River	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.005	0.005	0.004	0.004	0.004	0.003	0.004	0.005	0.005	0.005
107	Western Avenue, Chicago Sanitary & Ship Canal	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	0.004	0.005	0.004	0.003	0.004	0.003	0.004	0.006	0.004	0.005
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.006	0.007	0.006	0.007	0.006	0.007	0.005	0.008	0.008	0.007	0.007
42	Route 83, Chicago Sanitary & Ship Canal	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008
48	Stephen Street, Chicago Sanitary & Ship Canal	0.007	0.007	0.007	0.009	0.007	0.008	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	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.003	0.002	0.002	ND
50	Burnham Avenue, Wolf Lake	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.002	0.002	0.002
55	130th Street, Calumet River	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.003	0.003	0.002	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	0.010	0.009	0.008	0.011	0.010	0.009	0.013	0.010	0.009	0.013	0.020
56	Indiana Avenue, Little Calumet River	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.005	0.005	0.004	0.007
76	Halsted Street, Little Calumet River	0.007	0.010	0.010	0.008	0.006	0.013	0.013	0.014	0.015	0.016	0.019
52	Wentworth Avenue, Little Calumet River	0.009	0.001	0.040	0.027	0.005	0.015	0.014	0.015	0.009	0.011	0.007
54	Joe Orr Road, Thorn Creek	0.005	0.008	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.010	0.011
97	170th Street, Thorn Creek	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.005	0.008	0.009	0.008	0.005	0.007	0.009	0.009	0.007	0.006	0.007
58	Ashland Avenue, Cal-Sag Channel	0.007	0.009	0.009	0.008	0.006	0.010	0.012	0.011	0.010	0.014	0.015
59	Cicero Avenue, Cal-Sag Channel	0.006	0.008	0.008	0.009	0.006	0.009	0.013	0.012	0.011	0.015	0.015
43	Route 83, Cal-Sag Channel	0.006	0.007	0.007	0.009	0.006	0.008	0.010	0.010	0.010	0.012	0.021
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002	0.003	0.002	0.002
63	Longmeadow Lane, West Branch Du Page River	0.004	0.002	0.007	0.005	0.004	0.005	0.006	0.007	0.008	0.007	0.007
89	Walnut Lane, West Branch Du Page River	0.010	0.008	0.012	0.011	0.010	0.008	0.011	0.011	0.008	0.011	0.013
64	Lake Street, West Branch Du Page River	0.008	0.007	0.009	0.009	0.008	0.008	0.010	0.011	0.010	0.010	0.010
79	Higgins Road, Salt Creek	0.003	0.002	0.004	0.002	0.002	0.003	0.004	0.002	0.005	0.003	0.003
80	Arlington Heights Road, Salt Creek	0.008	0.007	0.010	0.009	0.006	0.007	0.007	0.007	0.006	0.007	0.008
18	Devon Avenue, Salt Creek	0.008	0.006	0.009	0.008	0.006	0.007	0.007	0.007	0.007	0.007	0.007
24	Wolf Road, Salt Creek	0.006	0.004	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007
21	First Avenue, Salt Creek	0.005	0.004	0.006	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.006
77	Elmhurst Road, Higgins Creek	0.003	0.004	0.003	0.003	0.003	0.004	0.003	0.004	0.005	0.003	0.003
78	Wille Road, Higgins Creek	0.007	0.005	0.011	0.008	0.008	0.006	0.008	0.010	0.007	0.010	0.010
12	Lake-Cook Road, Buffalo Creek	0.003	0.002	0.003	0.002	0.001	0.002	0.002	0.002	0.004	0.003	0.003
13	Lake-Cook Road, Des Plaines River	0.006	0.005	0.010	0.005	0.005	0.005	0.005	0.007	0.011	0.007	0.008
17	Oakton Street, Des Plaines River	0.005	0.004	0.009	0.005	0.004	0.005	0.006	0.003	0.006	0.009	0.006
19	Belmont Avenue, Des Plaines River	0.005	0.004	0.005	0.004	0.005	0.005	0.006	0.006	0.005	0.007	0.006
20	Roosevelt Road, Des Plaines River	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.006	0.005	0.008	0.006
22	Ogden Avenue, Des Plaines River	0.005	0.003	0.006	0.005	0.005	0.004	0.005	0.006	0.006	0.006	0.006
23	Willow Springs Road, Des Plaines River	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.008	0.005	0.006	0.006
29	Stephen Street, Des Plaines River	0.004	0.004	0.005	0.006	0.005	0.005	0.006	0.005	0.006	0.006	0.005
91	Material Service Road, Des Plaines River	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-58

WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY THROUGH 2001

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

FLUORIDE MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<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	0.682
106	Dundas Road, West Fork North Branch Chicago River	0.408	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.387	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.266	0.310	0.312	0.306	0.430	0.337	0.277	0.373	0.328	0.358	0.336
104	Glenview Road, North Branch Chicago River	0.464	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.247	0.315	0.373	0.286	0.391	0.342	0.331	0.389	0.388	0.340	0.342
105	Frontage Road, Skokie River	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Despater Street, North Branch Chicago River	0.378	0.577	0.604	0.488	0.625	0.525	0.469	0.594	0.437	0.513	0.492
96	Albany Avenue, North Branch Chicago River	0.446	0.642	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.138	0.187	0.184	0.158	0.200	0.187	0.134	0.110	0.215	0.165	0.145
102	Oakton Street, North Shore Channel	0.238	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.694	0.812	0.781	0.778	0.705	0.760	0.562	0.767	0.370	0.625	0.618
101	Poster Avenue, North Shore Channel	0.722	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.623	0.779	0.758	0.748	0.728	0.725	0.604	0.683	0.705	0.620	0.608
73	Diverser Parkway, North Branch Chicago River	0.648	0.765	0.765	0.740	0.634	0.730	0.601	0.704	0.613	0.603	0.633
46	Grand Avenue, North Branch Chicago River	0.665	0.783	0.768	0.697	0.752	0.713	0.621	0.744	0.665	0.656	0.651
74	Lake Shore Drive, Chicago River	0.353	0.358	0.235	0.195	0.260	0.136	0.122	0.124	0.247	0.197	0.168
100	Wells Street, Chicago River	0.363	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.537	0.645	0.607	0.475	0.372	0.380	0.380	0.426	0.388	0.402	0.404
108	Loomis Street, South Branch Chicago River	0.543	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.595	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.667	0.537	0.468	0.456	0.427	0.408	0.526	0.423	0.412	0.409
107	Western Avenue, Chicago Sanitary & Ship Canal	0.538	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.471	0.617	0.513	0.434	0.437	0.448	0.401	0.478	0.446	0.417	0.459
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.633	0.781	0.743	0.705	0.701	0.667	0.594	0.691	0.592	0.623	0.613
42	Route 83, Chicago Sanitary & Ship Canal	0.715	0.806	0.778	0.742	0.726	0.724	0.635	0.726	0.647	0.658	0.670
48	Stephen Street, Chicago Sanitary & Ship Canal	0.752	0.799	0.729	0.697	0.742	0.682	0.633	0.750	0.658	0.648	0.673
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0.914	0.865	0.791	0.725	0.744	0.789	0.765	0.699	0.627	0.624
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.751	0.810	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.144	0.148	0.135	0.216	0.187	0.136	0.125	0.153	0.236	0.174	ND
50	Burnham Avenue, Wolf Lake	0.208	0.200	0.237	0.198	0.267	0.177	0.213	0.401	0.272	0.295	0.328
55	130th Street, Calumet River	0.247	0.230	0.301	0.243	0.238	0.199	0.207	0.223	0.343	0.272	0.273
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	0.783	0.823	0.711	0.845	0.940	0.927	0.935	0.851	0.697	0.760	0.713
56	Indiana Avenue, Little Calumet River	0.375	0.382	0.317	0.422	0.439	0.334	0.281	0.446	0.437	0.383	0.354
76	Halsted Street, Little Calumet River	0.730	0.891	0.759	0.760	0.790	0.752	0.756	0.798	0.713	0.815	0.598
52	Wentworth Avenue, Little Calumet River	4.096	4.255	1.980	1.061	1.534	1.146	1.507	1.912	1.009	0.679	0.641
54	Joe Orr Road, Thorn Creek	0.674	0.737	0.596	0.594	0.747	0.692	0.639	0.663	0.593	0.682	0.530
97	170th Street, Thorn Creek	0.520	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.627	1.609	0.722	0.730	0.784	0.628	0.747	0.772	0.863	0.547	0.537
58	Ashland Avenue, Cal-Sag Channel	0.828	0.935	0.631	0.750	0.810	0.799	0.685	0.705	0.600	0.752	0.558
59	Cicero Avenue, Cal-Sag Channel	0.935	0.916	0.647	0.737	0.678	0.735	0.715	0.733	0.667	0.722	0.533
43	Route 83, Cal-Sag Channel	0.805	0.827	0.650	0.652	0.726	0.681	0.596	0.681	0.609	0.642	0.508
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.257	0.171	0.192	0.191	0.237	0.185	0.190	0.165	0.197	0.222	0.209
63	Longmeadow Lane, West Branch Du Page River	0.295	0.303	0.419	0.453	0.235	0.300	0.375	0.334	0.302	0.474	0.370
89	Walnut Lane, West Branch Du Page River	0.721	0.723	0.719	0.844	0.650	0.572	0.718	0.702	0.533	0.708	0.737
64	Lake Street, West Branch Du Page River	0.540	0.587	0.598	1.061	0.538	0.557	0.657	0.680	0.495	0.720	0.656
79	Higgins Road, Salt Creek	0.253	0.294	0.282	0.328	0.203	0.215	0.217	0.220	0.258	0.370	0.246
80	Arlington Heights Road, Salt Creek	0.573	0.643	0.595	0.851	0.617	0.576	0.597	0.538	0.354	0.491	0.414
18	Devon Avenue, Salt Creek	0.558	0.608	0.628	0.744	0.474	0.576	0.572	0.528	0.356	0.481	0.438
24	Wolf Road, Salt Creek	0.523	0.542	0.600	0.586	0.504	0.583	0.591	0.532	0.413	0.570	0.489
21	First Avenue, Salt Creek	0.499	0.486	0.607	0.753	0.531	0.551	0.600	0.520	0.416	0.522	0.514
77	Elmhurst Road, Higgins Creek	0.315	0.317	0.207	0.257	0.184	0.185	0.211	0.186	0.224	0.319	0.255
78	Wille Road, Higgins Creek	0.762	0.746	0.745	0.773	0.750	0.635	0.813	0.833	0.663	0.769	0.655
12	Lake-Cook Road, Buffalo Creek	0.252	0.259	0.207	0.346	0.180	0.199	0.189	0.182	0.279	0.288	0.264
13	Lake-Cook Road, Des Plaines River	0.393	0.402	0.458	0.560	0.450	0.466	0.427	0.530	0.355	0.428	0.404
17	Oakton Street, Des Plaines River	0.367	0.400	0.472	0.497	0.328	0.397	0.380	0.260	0.355	0.434	0.376
19	Belmont Avenue, Des Plaines River	0.425	0.459	0.506	0.563	0.384	0.435	0.465	0.507	0.371	0.453	0.378
20	Roosevelt Road, Des Plaines River	0.464	0.526	0.455	0.546	0.384	0.451	0.455	0.513	0.339	0.461	0.379
22	Ogden Avenue, Des Plaines River	0.408	0.410	0.514	0.524	0.418	0.446	0.483	0.502	0.363	0.488	0.393
23	Willow Springs Road, Des Plaines River	0.420	0.488	0.488	0.485	0.415	0.478	0.483	0.480	0.379	0.457	0.441
29	Stephen Street, Des Plaines River	0.386	0.486	0.514	0.543	0.429	0.461	0.525	0.498	0.391	0.446	0.419
91	Material Service Road, Des Plaines River	0.377	0.490	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-60

TOTAL ORGANIC CARBON MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	7.50	7.00	ND	ND	ND	10.75	8.56	8.00	16.56	11.33	13.17
106 Dundee Road, West Fork North Branch Chicago River	12.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	8.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	9.73	12.40	13.36	11.67	11.40	15.25	10.70	10.90	10.83	11.73	16.00
104 Glenview Road, North Branch Chicago River	8.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	9.36	12.30	11.27	13.83	12.80	13.75	10.89	11.00	9.83	10.82	16.30
105 Frontage Road, Skokie River	7.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.83	10.73	9.82	11.58	12.82	12.83	8.90	9.27	9.17	9.83	13.17
96 Albany Avenue, North Branch Chicago River	8.33	8.33	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.33	5.67	6.30	7.00	7.70	9.11	9.00	4.25	4.33	4.91	6.45
102 Oakton Street, North Shore Channel	4.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	8.00	10.58	9.92	9.08	14.00	11.92	8.17	8.73	8.18	9.25	10.50
101 Foster Avenue, North Shore Channel	7.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.75	10.17	9.08	9.25	11.82	13.00	8.25	8.08	9.25	10.17	11.50
73 Diversay Parkway, North Branch Chicago River	7.92	10.33	9.25	9.17	13.25	12.08	8.42	8.33	8.58	9.17	11.83
46 Grand Avenue, North Branch Chicago River	7.83	9.92	8.83	9.00	10.36	12.17	9.00	8.91	11.17	9.25	9.42
74 Lake Shore Drive, Chicago River	4.58	6.58	4.91	5.17	7.91	6.27	4.70	4.20	4.25	5.25	6.67
100 Wells Street, Chicago River	4.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	6.67	9.08	8.00	7.33	7.82	9.92	6.00	8.40	7.42	7.00	10.18
108 Loomis Street, South Branch Chicago River	6.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	8.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	12.78	8.00	7.83	10.67	10.50	7.00	6.75	7.33	7.75	9.58
107 Western Avenue, Chicago Sanitary & Ship Canal	6.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.58	8.58	7.25	10.33	9.45	10.67	7.00	6.92	7.17	7.42	10.00
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.25	9.75	8.45	13.67	11.18	12.17	7.67	8.25	8.58	8.83	10.83
42 Route 83, Chicago Sanitary & Ship Canal	7.67	12.55	8.83	11.83	15.00	12.33	7.83	8.80	8.67	8.83	11.58
48 Stephen Street, Chicago Sanitary & Ship Canal	7.92	10.09	9.36	12.08	11.82	12.25	9.00	9.00	9.58	9.58	12.75
82 Lockport Trahler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.59	9.62	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	3.25	6.67	4.00	4.39	7.32	6.67	4.91	4.36	4.33	5.00	ND
50 Burnham Avenue, Wolf Lake	5.18	6.92	6.42	6.67	8.25	8.67	7.33	8.25	7.42	8.50	8.42
55 130th Street, Calumet River	4.73	6.27	5.61	5.61	7.43	6.87	5.45	5.00	5.58	6.25	6.18
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	9.90	14.18	12.18	11.17	18.25	19.45	14.31	15.33	13.33	15.42	14.17
56 Indiana Avenue, Little Calumet River	5.75	7.67	6.68	6.73	11.24	9.27	6.91	7.73	8.33	7.83	8.25
76 Halsted Street, Little Calumet River	7.50	10.92	9.26	9.13	13.52	13.75	9.42	9.92	10.00	10.92	13.83
52 Wentworth Avenue, Little Calumet River	10.18	12.82	11.64	11.75	18.25	15.44	11.10	11.09	11.42	12.75	12.50
54 Joe Orr Road, Thorn Creek	9.08	12.75	10.25	11.17	13.50	16.17	12.00	11.92	12.08	12.17	11.00
97 170th Street, Thorn Creek	9.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	9.10	12.73	11.09	10.08	13.42	14.44	10.55	11.00	10.91	12.25	12.18
58 Ashland Avenue, Cal-Sag Channel	8.25	11.58	9.42	8.67	14.47	11.94	9.64	9.33	9.75	11.25	11.50
59 Cicero Avenue, Cal-Sag Channel	8.17	11.50	9.74	10.00	13.38	12.75	11.08	10.42	10.25	11.33	11.83
43 Route 83, Cal-Sag Channel	8.25	17.25	9.37	9.65	12.29	11.88	11.08	10.00	10.00	10.75	11.00
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	8.82	12.29	8.70	9.90	10.88	13.73	11.40	10.27	10.82	10.91	15.27
63 Longmeadow Lane, West Branch Du Page River	12.75	13.78	12.67	14.43	14.40	15.18	12.00	13.30	12.83	14.00	12.82
89 Walnut Lane, West Branch Du Page River	11.17	12.75	11.45	14.09	12.36	14.17	11.00	11.75	11.75	11.83	15.08
64 Lake Street, West Branch Du Page River	10.64	12.64	10.73	12.00	12.73	13.36	10.75	11.82	11.58	12.00	15.08
79 Higgins Road, Salt Creek	9.20	11.40	10.50	11.22	12.10	15.60	10.80	10.90	9.73	10.36	12.40
80 Arlington Heights Road, Salt Creek	9.83	10.67	9.82	11.00	12.27	13.58	10.50	9.90	9.92	10.58	12.83
18 Devon Avenue, Salt Creek	9.42	10.58	9.91	10.82	12.55	14.09	10.08	9.92	10.00	10.67	9.92
24 Wolf Road, Salt Creek	8.33	10.80	8.64	10.50	10.09	13.33	9.75	9.55	9.33	10.17	9.92
21 First Avenue, Salt Creek	8.50	10.10	8.27	10.00	9.90	12.67	9.42	9.55	8.83	10.18	11.42
77 Elmhurst Road, Higgins Creek	10.09	11.80	10.82	11.00	11.00	14.50	10.50	11.09	8.50	10.55	11.18
78 Willie Road, Higgins Creek	9.92	12.08	10.18	12.00	12.82	13.00	11.25	10.73	10.17	10.58	12.00
12 Lake-Cook Road, Buffalo Creek	9.55	11.90	10.00	12.30	12.20	15.17	11.92	11.10	11.67	11.50	15.33
13 Lake-Cook Road, Des Plaines River	8.67	11.17	9.73	11.00	12.80	13.33	11.67	10.44	10.50	12.00	13.33
17 Oakton Street, Des Plaines River	8.83	11.40	9.82	10.82	12.80	13.50	11.00	9.67	10.00	11.64	12.58
19 Belmont Avenue, Des Plaines River	8.92	11.10	9.55	11.18	11.73	14.00	10.75	10.83	10.00	11.92	12.42
20 Roosevelt Road, Des Plaines River	8.75	11.20	9.91	11.36	11.91	14.17	11.08	10.92	9.75	13.08	13.42
22 Ogden Avenue, Des Plaines River	8.50	10.80	9.73	10.82	12.36	14.23	10.50	10.18	9.83	11.08	13.00
23 Willow Springs Road, Des Plaines River	9.67	10.40	9.27	10.55	12.10	11.91	9.91	10.64	9.33	10.67	13.42
29 Stephen Street, Des Plaines River	9.25	9.60	9.09	11.36	13.45	13.58	10.55	10.45	9.58	10.42	13.00
91 Material Service Road, Des Plaines River	8.63	11.46	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-61

FECAL COLIFORM MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Geometric Means (#/100 ml)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	2683	4000	ND	ND	ND	2228	2476	3098	3103	670	221
106	Dundee Road, West Fork North Branch Chicago River	1782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	854	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	767	1050	1697	1210	2139	1556	1815	2089	1799	1433	2756
104	Glenview Road, North Branch Chicago River	1112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	1750	1131	1919	1718	2903	2578	6993	8480	25862	5746	11391
105	Frontage Road, Skokie River	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Despater Street, North Branch Chicago River	1377	1484	1498	878	769	1851	1507	1083	1459	1329	807
96	Albany Avenue, North Branch Chicago River	2517	4238	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	356	270	130	241	88	366	642	107	209	32	116
102	Oakton Street, North Shore Channel	580	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	4211	9424	7866	6963	10671	12203	11261	12771	7266	20352	10058
101	Foster Avenue, North Shore Channel	8703	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	5958	7677	7686	7000	7034	7007	10755	10780	7966	12231	11722
73	Diversey Parkway, North Branch Chicago River	3832	5539	4607	3796	4454	4773	5378	8197	8528	8180	10083
46	Grand Avenue, North Branch Chicago River	1840	1715	1522	1636	3288	1711	2413	2986	5927	3029	2039
74	Lake Shore Drive, Chicago River	66	91	23	62	37	38	59	54	47	34	19
100	Nells Street, Chicago River	159	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1622	1090	642	800	838	380	1491	1110	2188	1279	712
108	Loomis Street, South Branch Chicago River	325	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	1530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	160	282	510	543	441	1444	369	1169	1307	538
107	Western Avenue, Chicago Sanitary & Ship Canal	393	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	303	154	327	352	245	481	1037	352	1053	1317	302
41	Harlem Avenue, Chicago Sanitary & Ship Canal	4126	5043	4970	5427	5730	5361	3750	3231	8159	5962	4330
42	Route 83, Chicago Sanitary & Ship Canal	1580	1046	886	1300	1941	951	1815	1407	1520	1716	732
48	Stephen Street, Chicago Sanitary & Ship Canal	812	537	781	849	867	948	1160	1154	1197	2379	1022
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	291	256	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	20	18	12	27	13	21	49	66	36	12	ND
50	Burnham Avenue, Wolf Lake	32	24	15	13	18	9	13	18	15	16	35
55	130th Street, Calumet River	82	53	23	26	30	47	54	118	40	17	37
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	2056	3323	4100	4325	1849	3383	3551	2874	3904	2431	11975
56	Indiana Avenue, Little Calumet River	364	124	55	130	78	167	120	192	365	75	393
76	Halstad Street, Little Calumet River	2550	4774	3792	3747	2927	7302	4806	6861	7966	6254	10473
52	Wentworth Avenue, Little Calumet River	2211	3501	1701	3033	1402	1242	1264	1416	4149	2452	9966
54	Joe Orr Road, Thorn Creek	1083	2617	2173	1132	6513	3287	3992	2555	3651	7213	24375
97	170th Street, Thorn Creek	1197	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1623	3088	5189	1724	2531	1683	1328	2040	3258	759	3678
58	Ashland Avenue, Cal-Sag Channel	3095	3170	2660	2220	4858	4189	6904	4932	5363	4224	7368
59	Cicero Avenue, Cal-Sag Channel	1057	656	673	749	2165	2823	1964	3140	2911	2848	4999
43	Route 83, Cal-Sag Channel	298	79	87	201	227	654	466	629	1054	437	1852
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	129	948	146	136	355	388	776	410	417	125	198
63	Longmeadow Lane, West Branch Du Page River	1075	2538	386	603	1624	6965	1113	1478	1575	645	604
89	Walnut Lane, West Branch Du Page River	1273	1943	590	666	1816	7295	1903	2319	2612	518	881
64	Lake Street, West Branch Du Page River	1739	1889	658	1083	1564	6738	1750	3409	3522	973	1696
79	Higgins Road, Salt Creek	49	305	45	52	97	307	69	112	1041	138	298
80	Arlington Heights Road, Salt Creek	426	623	265	260	725	632	1050	552	490	540	465
18	Devon Avenue, Salt Creek	1140	807	687	1154	845	2137	1431	2030	1248	894	1235
24	Wolf Road, Salt Creek	507	1109	468	1038	2552	2257	2166	1198	2655	705	1924
21	First Avenue, Salt Creek	599	1459	1320	653	1211	2706	1070	1282	7453	1341	6146
77	Elmhurst Road, Higgins Creek	598	636	369	267	498	2404	1331	1016	795	120	1142
78	Wille Road, Higgins Creek	256	536	223	181	489	1019	399	804	858	100	437
12	Lake-Cook Road, Buffalo Creek	287	279	230	186	504	722	402	718	301	97	360
13	Lake-Cook Road, Des Plaines River	269	440	350	392	735	945	698	637	780	82	384
17	Oakton Street, Des Plaines River	492	915	765	360	876	1652	613	894	1377	208	1054
19	Belmont Avenue, Des Plaines River	440	734	1210	574	1780	4059	3442	2511	3047	963	8629
20	Roosevelt Road, Des Plaines River	422	790	1224	725	1979	3175	3101	1762	5312	1178	4915
22	Ogden Avenue, Des Plaines River	519	1121	609	538	1722	4029	1666	848	5337	1162	3199
23	Willow Springs Road, Des Plaines River	332	835	367	423	533	1020	458	696	2856	678	1786
29	Stephen Street, Des Plaines River	275	528	270	241	921	405	305	325	2008	335	833
91	Material Service Road, Des Plaines River	367	295	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-62

TOTAL CALCIUM MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	106.6	80.3	ND	ND	ND	71.0	61.3	127.0	82.1	74.8	65.7
106 Dundee Road, West Fork North Branch Chicago River	79.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	71.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	74.2	66.0	69.1	71.3	65.5	73.1	62.6	76.6	70.6	75.6	69.8
104 Glenview Road, North Branch Chicago River	68.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	79.4	73.1	70.0	82.2	76.6	83.8	64.9	79.8	79.2	79.5	74.6
105 Proutage Road, Skokie River	66.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	70.6	63.8	64.7	69.0	70.2	71.5	62.2	72.8	65.5	74.8	68.3
96 Albany Avenue, North Branch Chicago River	72.8	56.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Branch Channel	37.7	43.4	43.4	45.1	42.6	48.2	39.6	39.0	39.3	37.5	37.2
102 Oakton Street, North Shore Channel	42.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	61.8	52.9	56.5	58.7	55.3	56.0	55.7	59.0	55.2	53.1	52.1
101 Foster Avenue, North Shore Channel	57.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	63.9	55.6	57.8	62.8	58.6	59.8	58.4	60.6	58.9	55.8	53.1
73 Diversey Parkway, North Branch Chicago River	65.3	54.9	58.5	62.5	58.2	61.1	58.0	61.5	57.6	57.4	56.4
46 Grand Avenue, North Branch Chicago River	64.3	55.4	56.5	61.9	57.4	58.2	62.2	61.3	55.9	57.8	55.8
74 Lake Shore Drive, Chicago River	46.1	44.2	39.9	41.1	39.3	40.7	37.2	39.8	37.1	37.5	37.4
100 Wells Street, Chicago River	49.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	58.4	53.3	55.7	54.3	48.5	52.1	45.2	50.2	48.8	47.6	48.0
108 Loomis Street, South Branch Chicago River	51.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	58.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	53.0	56.5	55.0	51.7	52.4	44.8	53.8	50.5	48.4	48.3
107 Western Avenue, Chicago Sanitary & Ship Canal	56.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	55.7	53.3	54.4	52.8	52.6	50.7	48.5	54.6	49.8	47.2	50.4
41 Harlem Avenue, Chicago Sanitary & Ship Canal	59.6	54.3	56.8	56.1	56.0	54.0	53.3	59.3	50.2	55.7	52.0
42 Route 83, Chicago Sanitary & Ship Canal	59.8	53.6	54.9	56.1	56.9	56.6	54.3	63.0	55.2	53.4	54.3
48 Stephen Street, Chicago Sanitary & Ship Canal	63.4	58.5	57.4	57.8	61.5	60.2	57.0	63.7	59.0	58.6	60.4
82 Lockport Trebber, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	65.2	66.5	84.8	68.6	66.1
92 Lockport Forebay, Chicago Sanitary & Ship Canal	63.8	57.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Bring Avenue, Calumet River	40.2	39.7	39.5	39.0	38.6	40.7	38.9	41.1	37.8	35.1	ND
50 Burnham Avenue, Wolf Lake	34.5	34.3	32.5	35.8	38.2	37.3	33.9	42.8	35.5	38.0	35.3
55 130th Street, Calumet River	48.8	44.9	43.4	43.9	44.8	45.7	43.9	45.8	46.1	44.4	47.5
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	85.6	73.3	71.0	73.4	75.0	96.7	84.1	88.0	82.8	86.4	82.9
56 Indiana Avenue, Little Calumet River	52.5	49.7	50.4	54.2	55.3	53.9	52.2	57.2	62.1	52.4	59.2
76 Halsted Street, Little Calumet River	71.1	63.6	62.1	63.7	66.8	70.3	68.8	71.7	73.7	69.2	71.3
52 Wentworth Avenue, Little Calumet River	82.8	85.9	75.0	80.5	88.5	97.3	82.0	101.1	90.8	103.8	80.3
54 Joe Orr Road, Thorn Creek	85.5	72.8	75.6	76.9	80.0	84.1	81.3	87.8	84.0	82.8	79.4
97 170th Street, Thorn Creek	88.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	79.0	84.5	75.2	72.8	81.9	91.1	86.5	89.2	81.4	95.5	77.3
58 Ashland Avenue, Cal-Sag Channel	76.2	67.1	64.0	61.0	68.7	71.3	70.9	70.9	74.0	70.7	71.3
59 Cicero Avenue, Cal-Sag Channel	72.7	68.1	65.2	66.6	68.8	73.1	73.8	69.2	75.1	74.0	67.6
43 Route 83, Cal-Sag Channel	72.5	70.4	66.1	65.7	70.5	72.1	70.6	73.2	75.8	71.8	67.2
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	78.0	64.8	74.1	80.4	70.6	78.2	79.4	80.5	69.8	80.9	72.5
63 Longesadow Lane, West Branch Du Page River	99.6	63.8	76.9	76.9	79.3	65.6	84.4	76.8	74.6	83.2	61.0
89 Walnut Lane, West Branch Du Page River	67.8	59.3	61.9	61.2	60.0	59.9	67.3	69.4	67.0	67.3	58.2
64 Lake Street, West Branch Du Page River	69.3	59.9	60.9	65.3	63.8	63.1	68.1	69.3	63.7	69.3	63.6
79 Higgins Road, Salt Creek	79.3	65.9	60.0	69.6	65.1	70.8	74.5	77.7	68.6	76.8	60.0
80 Arlington Heights Road, Salt Creek	69.2	59.4	58.4	63.1	63.7	67.6	68.8	69.5	63.8	69.1	65.8
18 Devon Avenue, Salt Creek	68.9	58.8	60.1	63.7	67.2	66.1	68.3	66.8	62.8	69.0	66.2
24 Wolf Road, Salt Creek	75.3	67.7	66.9	85.3	69.0	77.9	76.8	76.5	71.0	80.8	78.5
21 Firat Avenue, Salt Creek	80.7	65.5	65.1	75.8	68.0	75.3	76.8	74.5	66.5	82.3	77.6
77 Elmhurst Road, Higgins Creek	79.6	62.4	67.5	79.4	66.5	68.8	75.4	74.4	61.6	80.2	57.1
78 Wille Road, Higgins Creek	80.9	67.6	72.3	80.1	73.6	74.3	74.2	70.9	70.7	79.6	67.7
12 Lake-Cook Road, Buffalo Creek	81.7	71.3	70.5	75.2	73.5	75.5	82.1	86.8	76.2	82.7	72.5
13 Lake-Cook Road, Des Plaines River	76.5	67.3	60.5	73.9	70.7	75.5	78.3	83.3	69.5	77.8	77.5
17 Oakton Street, Des Plaines River	81.1	67.1	63.7	76.4	70.0	77.1	75.3	70.3	67.2	76.8	71.7
19 Belmont Avenue, Des Plaines River	77.9	65.5	62.1	73.4	71.4	75.3	79.5	140.5	65.4	79.1	71.0
20 Roosevelt Road, Des Plaines River	75.4	64.2	61.5	73.6	72.0	76.3	76.7	75.0	64.5	79.0	69.8
22 Ogden Avenue, Des Plaines River	75.4	65.2	63.6	74.1	70.8	76.0	79.3	73.2	65.1	75.9	73.3
23 Willow Springs Road, Des Plaines River	75.5	66.0	62.6	74.2	70.9	76.0	76.5	70.6	65.2	78.8	75.3
29 Stephen Street, Des Plaines River	76.6	67.2	63.1	75.1	75.3	77.3	75.4	73.9	70.7	79.5	76.1
91 Material Service Road, Des Plaines River	71.0	69.3	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-63

TOTAL MAGNESIUM MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	46.1	32.8	ND	ND	ND	29.0	24.9	46.0	44.1	32.4	27.2
106 Dundee Road, West Fork North Branch Chicago River	37.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	31.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	33.9	30.0	31.6	33.3	30.8	33.5	28.1	29.3	30.8	34.5	28.2
104 Glenview Road, North Branch Chicago River	31.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	35.4	32.8	31.4	37.8	35.2	39.3	26.6	32.4	36.5	36.5	31.8
105 Frontage Road, Skokie River	30.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	31.8	27.9	27.8	31.9	31.7	30.7	26.7	27.9	27.4	33.7	28.5
96 Albany Avenue, North Branch Chicago River	31.4	23.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	12.2	15.7	15.4	14.9	14.4	15.9	13.6	11.3	12.0	12.2	11.7
102 Oakton Street, North Shore Channel	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	23.2	19.3	19.9	21.8	20.3	19.8	19.2	18.3	19.3	17.8	17.8
101 Foster Avenue, North Shore Channel	21.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	25.1	21.0	21.5	24.9	22.3	22.0	20.9	19.6	21.4	20.3	18.7
73 Diversay Parkway, North Branch Chicago River	25.6	20.8	21.6	24.4	21.7	22.5	20.8	19.5	20.5	21.2	19.5
46 Grand Avenue, North Branch Chicago River	24.8	20.9	20.9	24.2	21.5	21.2	22.1	19.4	20.5	19.6	19.4
74 Lake Shore Drive, Chicago River	16.1	15.7	13.4	14.3	12.9	13.6	11.8	11.7	12.2	12.2	13.6
100 Wells Street, Chicago River	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	22.2	19.4	20.5	20.7	17.4	18.3	15.8	14.0	17.8	15.8	16.5
108 Loomis Street, South Branch Chicago River	19.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	21.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	20.0	21.3	21.4	18.5	18.7	16.0	16.5	18.5	16.8	16.4
107 Western Avenue, Chicago Sanitary & Ship Canal	21.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	21.3	19.7	20.3	20.0	18.7	17.8	16.8	16.5	18.3	16.5	17.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	23.1	20.1	21.0	21.8	20.1	19.3	18.7	17.5	18.6	18.8	18.0
42 Route 83, Chicago Sanitary & Ship Canal	23.0	19.8	20.2	21.5	20.4	20.1	19.0	19.8	19.9	18.4	19.2
48 Stephen Street, Chicago Sanitary & Ship Canal	24.6	21.9	21.2	22.4	22.6	21.6	19.7	20.8	23.3	20.4	21.5
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	24.8	25.1	27.1	21.5	20.1
92 Lockport Forebay, Chicago Sanitary & Ship Canal	24.9	21.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	13.1	13.1	13.4	13.4	12.9	13.2	12.1	12.1	11.9	12.4	ND
50 Burnham Avenue, Wolf Lake	12.6	13.0	13.2	13.3	12.9	13.0	11.6	13.0	11.9	12.3	11.8
55 130th Street, Calumet River	16.8	15.5	15.0	14.9	15.4	14.6	13.5	13.5	15.8	14.6	15.5
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	57.1	57.7	54.5	59.8	51.2	69.4	77.3	80.8	52.6	55.3	60.6
56 Indiana Avenue, Little Calumet River	20.1	22.3	21.6	27.8	26.5	24.0	23.1	28.0	29.8	22.4	25.9
76 Halsted Street, Little Calumet River	26.5	23.4	22.4	25.7	25.6	24.0	23.5	25.0	26.8	23.8	25.5
52 Wentworth Avenue, Little Calumet River	33.6	35.3	40.1	34.0	36.8	38.2	32.0	38.5	36.2	42.2	30.8
54 Joe Orr Road, Thorn Creek	39.3	34.2	36.3	36.0	36.8	38.2	36.5	35.8	36.3	37.0	32.8
97 170th Street, Thorn Creek	41.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	35.1	38.8	33.8	32.2	36.5	40.1	36.0	36.0	33.1	41.6	31.9
58 Ashland Avenue, Cal-Sag Channel	28.3	26.0	24.5	24.3	26.5	25.9	25.0	26.6	29.1	25.3	26.2
59 Cicero Avenue, Cal-Sag Channel	27.7	26.4	24.8	26.8	26.8	26.5	25.8	25.3	28.9	27.0	25.0
43 Route 83, Cal-Sag Channel	27.8	26.9	25.4	26.9	28.0	26.4	24.6	26.8	28.8	27.4	24.7
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	36.7	31.3	36.5	37.9	31.8	35.0	35.3	32.0	30.1	37.4	32.2
63 Longmeadow Lane, West Branch Du Page River	41.5	24.1	51.0	31.1	30.9	23.3	31.8	25.7	25.8	33.0	22.2
89 Walnut Lane, West Branch Du Page River	26.8	23.7	24.7	23.2	23.3	22.2	24.9	22.1	24.8	26.3	21.7
64 Lake Street, West Branch Du Page River	27.8	23.6	24.0	25.2	25.6	23.5	25.5	23.1	23.2	26.5	23.7
79 Higgins Road, Salt Creek	36.7	28.9	27.8	30.6	28.9	30.1	31.7	29.5	27.8	33.2	24.4
80 Arlington Heights Road, Salt Creek	28.6	24.1	23.5	25.1	26.1	26.6	26.1	24.2	24.3	27.3	25.1
18 Devon Avenue, Salt Creek	28.5	23.6	24.1	25.8	27.7	25.8	25.8	22.9	24.7	28.1	26.1
24 Wolf Road, Salt Creek	32.5	28.3	28.7	34.2	28.8	30.9	29.9	26.2	28.8	31.9	30.6
21 First Avenue, Salt Creek	34.6	27.7	28.0	32.0	29.2	29.9	30.8	24.5	26.5	33.1	30.1
77 Elmhurst Road, Higgins Creek	32.5	22.9	28.5	33.7	26.8	26.8	30.9	22.5	23.6	31.3	21.9
78 Wille Road, Higgins Creek	32.6	25.8	28.2	29.5	28.6	28.7	27.8	21.8	26.8	28.8	24.4
12 Lake-Cook Road, Buffalo Creek	38.3	33.2	34.5	34.4	34.9	34.0	37.9	33.9	34.1	38.3	33.3
13 Lake-Cook Road, Des Plaines River	36.1	31.6	27.7	33.4	32.8	34.0	35.2	31.6	36.7	26.7	33.5
17 Oakton Street, Des Plaines River	37.7	30.7	28.6	34.8	32.4	33.9	34.1	27.0	30.3	34.9	31.0
19 Belmont Avenue, Des Plaines River	35.8	29.7	27.6	33.1	32.7	32.7	33.8	53.3	28.3	34.1	28.3
20 Roosevelt Road, Des Plaines River	35.0	29.3	27.6	34.2	32.3	33.3	33.1	27.3	27.4	34.5	29.8
22 Ogden Avenue, Des Plaines River	33.8	29.1	28.4	32.7	31.0	32.8	33.3	25.8	27.8	33.4	29.4
23 Willow Springs Road, Des Plaines River	34.4	29.7	28.3	33.4	32.0	33.0	33.5	25.8	27.5	33.8	30.7
29 Stephen Street, Des Plaines River	35.7	30.0	28.0	33.8	33.3	32.9	31.4	27.0	29.7	34.5	31.0
91 Material Service Road, Des Plaines River	32.8	31.0	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-64

HARDNESS MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	456	335	ND	ND	ND	297	256	507	387	320	276
106	Dundee Road, West Fork North Branch Chicago River	354	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	325	288	303	315	290	321	272	312	303	331	290
104	Glenview Road, North Branch Chicago River	301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	344	318	304	361	336	371	272	333	349	349	317
105	Frontage Road, Skokie River	291	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Despater Street, North Branch Chicago River	307	274	276	304	306	305	265	297	276	325	288
96	Albany Avenue, North Branch Chicago River	311	237	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	144	173	172	174	166	186	155	144	147	144	141
102	Oakton Street, North Shore Channel	166	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	250	211	223	236	221	222	218	223	217	206	203
101.	Foster Avenue, North Shore Channel	231	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	263	225	233	260	238	240	232	232	235	223	209
73	Diversey Parkway, North Branch Chicago River	268	223	235	257	234	245	230	234	228	231	221
46	Grand Avenue, North Branch Chicago River	263	224	227	254	232	232	247	233	224	225	219
74	Lake Shore Drive, Chicago River	182	175	155	162	151	158	142	148	143	144	141
100	Wells Street, Chicago River	198	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	237	213	223	221	192	205	178	183	195	184	188
108	Loomis Street, South Branch Chicago River	207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	234	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	214	229	226	205	208	178	202	202	190	188
107	Western Avenue, Chicago Sanitary & Ship Canal	228	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	227	214	219	214	208	200	190	204	200	186	196
41	Harlem Avenue, Chicago Sanitary & Ship Canal	244	218	228	230	223	214	210	220	202	217	204
42	Route 83, Chicago Sanitary & Ship Canal	244	215	220	229	226	224	214	239	220	209	214
48	Stephen Street, Chicago Sanitary & Ship Canal	260	236	230	237	247	239	223	245	243	230	239
82	Lockport Treblier, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	265	269	323	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	262	233	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	154	153	154	153	150	156	147	152	143	139	ND
50	Burnham Avenue, Wolf Lake	138	139	136	144	148	147	132	160	138	145	137
55	130th Street, Calumet River	191	176	170	171	175	174	165	170	180	171	183
51	IEB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	449	421	402	430	398	527	528	553	423	443	457
56	Indiana Avenue, Little Calumet River	314	316	315	250	247	233	225	258	276	223	254
76	Halsted Street, Little Calumet River	287	255	247	265	272	274	269	282	294	271	283
52	Westworth Avenue, Little Calumet River	345	360	352	341	372	400	337	411	376	433	327
54	Joe Orr Road, Thorn Creek	375	323	338	340	351	367	353	366	359	359	334
97	170th Street, Thorn Creek	391	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	342	371	327	314	355	393	364	371	339	410	324
58	Ashland Avenue, Cal-Sag Channel	307	275	261	262	281	285	280	287	305	281	286
59	Cicero Avenue, Cal-Sag Channel	296	279	265	276	282	292	291	277	307	296	272
43	Route 83, Cal-Sag Channel	295	286	270	275	291	289	277	293	308	292	269
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	346	291	335	357	307	339	344	333	298	356	314
63	Longmeadow Lane, West Branch Du Page River	419	258	402	320	325	260	342	298	293	344	244
89	Walnut Lane, West Branch Du Page River	280	246	256	248	246	241	271	264	269	277	234
64	Lake Street, West Branch Du Page River	287	247	251	267	265	254	275	264	254	282	256
79	Higgins Road, Salt Creek	349	284	264	300	282	301	317	315	286	328	250
80	Arlington Heights Road, Salt Creek	290	248	242	261	266	278	279	273	259	285	268
18	Devon Avenue, Salt Creek	289	244	249	265	282	271	277	261	258	288	273
24	Wolf Road, Salt Creek	322	286	285	354	291	322	315	299	296	333	322
21	First Avenue, Salt Creek	344	277	278	321	290	311	318	287	275	342	318
77	Elmhurst Road, Higgins Creek	332	250	286	337	276	282	316	278	251	329	233
78	Willie Road, Higgins Creek	336	275	297	321	301	303	300	267	287	317	269
12	Lake-Cook Road, Buffalo Creek	362	315	318	329	327	329	361	356	331	364	318
13	Lake-Cook Road, Des Plaines River	340	298	265	322	312	329	340	338	300	345	331
17	Oakton Street, Des Plaines River	358	294	277	334	308	332	328	287	293	336	307
19	Belmont Avenue, Des Plaines River	342	286	269	320	310	323	338	570	280	338	294
20	Roosevelt Road, Des Plaines River	333	281	267	324	313	328	328	299	274	339	297
22	Ogden Avenue, Des Plaines River	327	282	276	320	304	325	335	289	277	327	304
23	Willow Springs Road, Des Plaines River	330	287	273	323	309	326	329	283	276	336	314
29	Stephen Street, Des Plaines River	338	291	273	326	325	329	318	296	299	341	318
91	Material Service Road, Des Plaines River	317	301	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-65

GROSS ALPHA RADIOACTIVITY MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (pCi/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.33	1.30
106 Dundee Road, West Fork North Branch Chicago River	4.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.05	ND	ND	ND	ND	ND	ND	ND	ND	1.27	1.27
104 Glenview Road, North Branch Chicago River	4.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	4.86	ND	ND	ND	ND	ND	ND	ND	ND	0.98	1.11
105 Frontage Road, Skokie River	4.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	4.88	ND	ND	ND	ND	ND	ND	ND	ND	0.86	0.75
96 Albany Avenue, North Branch Chicago River	4.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.45	4.23	3.40	ND	2.44	3.55	0.20	0.05	0.24	0.17	0.26
102 Oakton Street, North Shore Channel	4.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.29	4.21	3.49	ND	3.09	3.13	0.28	0.29	0.26	0.14	0.33
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	0.43	0.25
73 Diversay Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	0.42
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	0.35
74 Lake Shore Drive, Chicago River	4.01	ND	ND	ND	ND	ND	ND	ND	ND	0.17	0.29
100 Wells Street, Chicago River	4.25	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	0.32	0.36
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	0.40	0.28
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	4.32	4.22	3.96	ND	2.90	2.94	0.31	0.26	0.36	0.37	0.29
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.49	4.26	3.64	ND	3.07	3.12	0.31	0.32	0.34	0.34	0.27
42 Route 83, Chicago Sanitary & Ship Canal	ND	4.36	3.57	ND	3.31	3.47	0.22	0.23	0.63	0.38	0.26
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	4.25	3.53	ND	3.06	3.35	0.49	0.34	0.43	0.45	0.41
82 Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.50	4.44	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	3.79	ND	ND	ND	ND	ND	ND	ND	ND	0.31	ND
50 Burnham Avenue, Wolf Lake	3.44	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.27
55 110th Street, Calumet River	3.76	ND	ND	ND	ND	ND	ND	ND	ND	0.32	0.43
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	0.86	0.53
56 Indiana Avenue, Little Calumet River	4.25	4.30	3.51	ND	2.95	3.09	0.36	0.72	0.56	0.32	0.62
76 Halsted Street, Little Calumet River	4.34	4.39	3.70	ND	3.17	2.43	0.36	0.42	0.44	0.37	0.63
52 Wentworth Avenue, Little Calumet River	4.43	ND	ND	ND	ND	ND	ND	ND	ND	2.08	1.84
54 Joe Orr Road, Thorn Creek	5.73	ND	ND	ND	ND	ND	ND	ND	ND	0.21	0.68
97 170th Street, Thorn Creek	4.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	4.63	ND	ND	ND	ND	ND	ND	ND	ND	0.87	1.86
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49	1.40
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	1.45
43 Route 83, Cal-Sag Channel	ND	4.41	3.62	ND	3.59	3.32	0.38	0.79	1.07	0.53	1.27
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	5.63	ND	ND	ND	ND	ND	ND	ND	ND	0.65	0.86
63 Longmeadow Lane, West Branch Du Page River	5.23	4.21	4.14	ND	4.15	5.07	2.07	0.81	1.96	2.41	1.17
89 Walnut Lane, West Branch Du Page River	4.53	4.13	3.59	ND	3.87	3.53	0.51	0.50	0.72	0.55	0.71
64 Lake Street, West Branch Du Page River	4.91	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.81
79 Higgins Road, Salt Creek	5.54	4.37	3.64	ND	4.00	4.71	1.16	0.91	1.24	1.11	1.43
80 Arlington Heights Road, Salt Creek	5.07	4.19	3.53	ND	4.04	3.55	0.39	0.64	0.64	0.53	0.69
18 Devon Avenue, Salt Creek	5.06	ND	ND	ND	2.79	ND	ND	ND	ND	0.88	0.69
24 Wolf Road, Salt Creek	4.45	ND	ND	ND	ND	ND	ND	ND	ND	1.25	1.73
21 First Avenue, Salt Creek	4.98	ND	ND	ND	ND	ND	ND	ND	ND	1.24	1.76
77 Elmhurst Road, Higgins Creek	5.82	4.42	3.77	ND	4.37	4.85	1.68	3.93	1.18	1.04	0.86
78 Wille Road, Higgins Creek	5.44	4.24	3.69	ND	3.42	3.69	0.72	0.71	0.62	0.35	0.50
12 Lake-Cook Road, Buffalo Creek	4.98	ND	ND	ND	ND	ND	ND	ND	ND	1.14	1.46
13 Lake-Cook Road, Des Plaines River	5.26	ND	ND	ND	ND	ND	ND	ND	ND	0.88	1.02
17 Oakton Street, Des Plaines River	5.26	ND	ND	ND	ND	ND	ND	ND	ND	0.78	1.14
19 Belmont Avenue, Des Plaines River	4.69	ND	ND	ND	ND	ND	ND	ND	ND	1.03	0.91
20 Roosevelt Road, Des Plaines River	4.80	ND	ND	ND	ND	ND	ND	ND	ND	0.96	0.89
22 Ogden Avenue, Des Plaines River	4.83	ND	ND	ND	ND	ND	ND	ND	ND	1.07	1.20
23 Willow Springs Road, Des Plaines River	4.85	ND	ND	ND	ND	ND	ND	ND	ND	1.02	1.11
29 Stephen Street, Des Plaines River	4.86	ND	ND	ND	ND	ND	ND	ND	ND	1.42	1.26
91 Material Service Road, Des Plaines River	5.12	4.54	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-66

GROSS BETA RADIOACTIVITY MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (pCi/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.87	13.01
106 Dundee Road, West Fork North Branch Chicago River	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.80	ND	ND	ND	ND	ND	ND	ND	ND	7.64	8.44
104 Glenview Road, North Branch Chicago River	7.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	6.56	ND	ND	ND	ND	ND	ND	ND	ND	7.95	8.09
105 Frontage Road, Skokie River	7.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.41	ND	ND	ND	ND	ND	ND	ND	ND	9.70	8.09
96 Albany Avenue, North Branch Chicago River	7.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	4.44	6.67	5.97	ND	5.03	7.76	3.08	1.61	2.55	2.17	3.15
102 Oakton Street, North Shore Channel	5.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.12	11.30	8.46	ND	8.21	7.23	6.45	7.15	6.53	5.58	5.77
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	6.35	5.94
73 Diversy Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.81	6.29
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.53	5.79
74 Lake Shore Drive, Chicago River	5.82	ND	ND	ND	ND	ND	ND	ND	ND	2.63	3.13
100 Wells Street, Chicago River	7.03	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	4.48	5.09
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	5.11	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	8.01	9.05	7.36	ND	6.07	6.34	5.90	6.25	4.98	4.31	5.52
41 Harlem Avenue, Chicago Sanitary & Ship Canal	8.32	9.33	9.18	ND	6.93	6.57	7.16	7.71	6.33	5.52	6.01
42 Route 83, Chicago Sanitary & Ship Canal	ND	9.04	9.32	ND	7.70	6.64	6.97	7.85	6.31	5.34	6.81
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	9.65	10.26	ND	7.06	7.22	7.34	8.32	7.83	7.14	7.19
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	7.93	9.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	4.92	ND	ND	ND	ND	ND	ND	ND	ND	3.49	ND
50 Burnham Avenue, Wolf Lake	4.89	ND	ND	ND	ND	ND	ND	ND	ND	3.67	4.75
55 130th Street, Calumet River	6.36	ND	ND	ND	ND	ND	ND	ND	ND	5.12	6.35
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.87	13.11
56 Indiana Avenue, Little Calumet River	8.20	7.59	7.07	ND	6.48	6.50	6.78	7.96	9.61	7.16	8.46
76 Halsted Street, Little Calumet River	7.44	10.27	9.25	ND	8.50	9.10	9.21	9.99	10.17	7.98	8.58
52 Wentworth Avenue, Little Calumet River	9.42	ND	ND	ND	ND	ND	ND	ND	ND	14.01	14.36
54 Joe Orr Road, Thorn Creek	7.95	ND	ND	ND	ND	ND	ND	ND	ND	12.03	11.40
97 170th Street, Thorn Creek	8.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	8.89	ND	ND	ND	ND	ND	ND	ND	ND	10.62	14.84
58 Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.62	12.25
59 Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.66	12.01
43 Route 83, Cal-Sag Channel	ND	9.40	8.97	ND	8.74	7.89	9.39	10.21	10.67	8.85	11.57
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	5.91	ND	ND	ND	ND	ND	ND	ND	ND	6.66	6.45
63 Longmeadow Lane, West Branch Du Page River	7.02	7.30	8.49	ND	8.53	8.86	11.98	9.12	7.43	10.83	7.99
89 Walnut Lane, West Branch Du Page River	9.50	9.61	10.64	ND	10.63	9.23	11.10	9.80	9.10	10.79	8.91
64 Lake Street, West Branch Du Page River	10.14	ND	ND	ND	ND	ND	ND	ND	ND	10.25	11.34
79 Higgins Road, Salt Creek	7.05	7.01	6.06	ND	7.21	8.02	8.41	9.52	7.92	8.67	8.21
80 Arlington Heights Road, Salt Creek	9.32	9.75	11.95	ND	8.84	7.79	9.91	10.02	7.34	9.01	8.36
18 Devon Avenue, Salt Creek	8.27	ND	ND	ND	11.00	ND	ND	ND	ND	10.05	8.60
24 Wolf Road, Salt Creek	9.13	ND	ND	ND	ND	ND	ND	ND	ND	13.25	15.68
21 First Avenue, Salt Creek	9.41	ND	ND	ND	ND	ND	ND	ND	ND	11.05	14.27
77 Elmhurst Road, Higgins Creek	7.32	7.37	7.18	ND	6.88	8.69	12.58	14.53	7.83	8.83	8.07
78 Wille Road, Higgins Creek	15.72	16.49	16.83	ND	13.15	9.28	15.08	14.52	9.82	11.51	10.56
12 Lake-Cook Road, Buffalo Creek	6.44	ND	ND	ND	ND	ND	ND	ND	ND	10.26	10.68
13 Lake-Cook Road, Des Plaines River	8.21	ND	ND	ND	ND	ND	ND	ND	ND	8.74	10.55
17 Oakton Street, Des Plaines River	7.81	ND	ND	ND	ND	ND	ND	ND	ND	10.59	10.53
19 Belmont Avenue, Des Plaines River	8.37	ND	ND	ND	ND	ND	ND	ND	ND	9.63	9.93
20 Roosevelt Road, Des Plaines River	7.89	ND	ND	ND	ND	ND	ND	ND	ND	9.74	9.93
22 Ogden Avenue, Des Plaines River	7.92	ND	ND	ND	ND	ND	ND	ND	ND	10.54	11.77
23 Willow Springs Road, Des Plaines River	8.78	ND	ND	ND	ND	ND	ND	ND	ND	10.72	11.33
29 Stephen Street, Des Plaines River	8.36	ND	ND	ND	ND	ND	ND	ND	ND	10.27	11.79
91 Material Service Road, Des Plaines River	8.77	9.21	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-67

TOTAL SILVER MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.000	0.000	ND	ND	ND	0.000	0.010	0.000	0.000	0.000	0.000
106 Dundas Road, West Fork North Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.001	0.001	0.001	0.000	0.001	0.008	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.000	0.001	0.000	0.001	0.008	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.001	0.001	0.002	0.000	0.001	0.008	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.000	0.003	0.000	0.002	0.007	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.000	0.000	0.000
73 Diverser Parkway, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.002	0.007	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.001	0.002	0.000	0.000	0.007	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.001	0.000	0.000	0.000	0.001	0.001	0.007	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	0.000	0.002	0.000	0.000	0.007	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.002	0.000	0.001	0.008	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.001	0.001	0.000	0.007	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.002	0.000	0.008	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.001	0.001	0.001	0.007	0.000	0.000	0.000	0.000
82 Lockport Trebiler, Chicago Sanitary & Ship Canal	ND	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.002
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	0.001	0.000	0.002	0.005	0.003	0.005	0.000	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.002	0.001	0.000	0.004	0.003	0.002	0.003	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.001	0.000	0.000	0.001	0.000	0.002	0.004	0.002	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	0.000	0.001	0.003	0.003	0.005	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.002	0.001	0.000	0.000	0.000	0.003	0.005	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.001	0.001	0.000	0.001	0.001	0.003	0.003	0.000	0.000	0.003	0.000
52 Wentworth Avenue, Little Calumet River	0.001	0.001	0.000	0.002	0.000	0.003	0.006	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.000	0.002	0.000	0.003	0.004	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.002	0.000	0.000	0.001	0.003	0.004	0.002	0.000	0.000	0.003
58 Ashland Avenue, Cal-Sag Channel	0.003	0.000	0.000	0.003	0.002	0.003	0.004	0.001	0.000	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.002	0.000	0.000	0.002	0.006	0.003	0.004	0.000	0.000	0.000	0.000
43 Route 83, Cal-Sag Channel	0.001	0.001	0.000	0.002	0.003	0.002	0.004	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.000	0.000	0.001	0.007	0.000	0.008	0.001	0.000	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	0.002	0.000	0.000	0.000	0.006	0.000	0.010	0.000	0.000	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.001	0.000	0.000	0.000	0.005	0.000	0.008	0.000	0.000	0.000	0.000
64 Lake Street, West Branch Du Page River	0.001	0.001	0.000	0.001	0.006	0.001	0.008	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.001	0.006	0.000	0.009	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.005	0.000	0.008	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.001	0.000	0.000	0.000	0.006	0.000	0.006	0.001	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.001	0.000	0.000	0.000	0.002	0.000	0.007	0.000	0.000	0.000	0.000
21 First Avenue, Salt Creek	0.001	0.001	0.000	0.000	0.002	0.001	0.006	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.001	0.000	0.000	0.000	0.006	0.001	0.008	0.001	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.001	0.000	0.000	0.000	0.003	0.000	0.008	0.001	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.006	0.000	0.008	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.000	0.000	0.005	0.000	0.009	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.001	0.000	0.000	0.000	0.002	0.000	0.007	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.000	0.000	0.002	0.000	0.008	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.002	0.000	0.008	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.001	0.000	0.001	0.000	0.007	0.001	0.008	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.001	0.000	0.000	0.000	0.005	0.000	0.006	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.001	0.000	0.000	0.000	0.002	0.000	0.008	0.001	0.000	0.000	0.000
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-68

TOTAL ARSENIC MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<b>Chicago River System</b>											
30 Lake-Cook Road, West Fork North Branch	0.010	0.000	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000
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	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.006	0.000	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	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.003	0.007	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.010	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73 Diversely Parkway, North Branch Chicago River	0.005	0.011	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	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.004	0.000	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.007	0.000	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	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Dawson Avenue, Chicago Sanitary & Ship Canal	ND	0.000	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	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	0.000	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	0.006	0.000	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	0.001	0.000	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	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0.000	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	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Calumet River System</b>											
49 Eving Avenue, Calumet River	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.007	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	0.005	0.005	0.027	0.000	0.023	0.000	0.000	0.000	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	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.004	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.005	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	0.004	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.006	0.007	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Cal-Sag Channel	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Cal-Sag Channel	0.006	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000
<b>Des Plaines River System</b>											
90 Route 19, Poplar Creek	0.005	0.000	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	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.006	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64 Lake Street, West Branch Du Page River	0.005	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.006	0.005	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21 First Avenue, Salt Creek	0.003	0.007	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.004	0.000	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	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.003	0.012	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.003	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.006	0.008	0.000	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.002	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-69

TOTAL BARIUM MEAN HISTORY THROUGH 2001

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

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-70

TOTAL BORON MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	0.171	0.208	ND	ND	ND	0.328	ND	ND	ND	ND	ND
106	Dundas Road, West Fork North Branch Chicago River	0.186	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.151	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.104	0.134	0.132	0.113	0.133	0.164	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.122	0.161	0.125	0.155	0.188	0.199	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.166	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Deapster Street, North Branch Chicago River	0.132	0.194	0.178	0.167	0.227	0.234	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.157	0.243	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.030	0.050	0.015	0.039	0.064	0.117	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.058	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.211	0.233	0.208	0.215	0.274	0.233	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	0.201	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.183	0.201	0.188	0.180	0.243	0.233	ND	ND	ND	ND	ND
73	Diversay Parkway, North Branch Chicago River	0.173	0.205	0.193	0.175	0.227	0.233	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.178	0.214	0.189	0.181	0.223	0.230	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.082	0.091	0.025	0.047	0.055	0.092	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.091	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.135	0.178	0.156	0.120	0.155	0.172	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.148	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.162	0.141	0.119	0.193	0.168	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	0.129	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.143	0.174	0.133	0.113	0.188	0.169	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.190	0.200	0.175	0.173	0.243	0.210	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.206	0.219	0.183	0.188	0.262	0.232	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.219	0.247	0.197	0.185	0.280	0.229	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	0.209	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.045	0.033	0.002	0.053	0.092	0.100	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.100	0.069	0.035	0.096	0.153	0.169	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.146	0.084	0.061	0.091	0.150	0.140	ND	ND	ND	ND	ND
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	0.370	0.371	0.386	0.338	0.388	0.506	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.152	0.159	0.123	0.168	0.214	0.189	ND	ND	ND	ND	ND
76	Balsted Street, Little Calumet River	0.228	0.286	0.244	0.253	0.293	0.340	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.209	0.276	0.235	0.238	0.345	0.296	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.351	0.410	0.353	0.357	0.428	0.413	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.212	0.321	0.267	0.259	0.421	0.329	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.232	0.280	0.227	0.260	0.332	0.261	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.228	0.277	0.230	0.257	0.298	0.279	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.215	0.250	0.235	0.243	0.296	0.283	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.063	0.059	0.012	0.058	0.143	0.158	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch Du Page River	0.083	0.069	0.128	0.180	0.223	0.197	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch Du Page River	0.296	0.285	0.311	0.328	0.393	0.339	ND	ND	ND	ND	ND
64	Lake Street, West Branch Du Page River	0.243	0.203	0.238	0.266	0.309	0.296	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.099	0.086	0.071	0.092	0.169	0.186	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.223	0.207	0.225	0.233	0.278	0.279	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.211	0.195	0.213	0.218	0.257	0.268	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.184	0.182	0.203	0.195	0.273	0.277	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	0.196	0.176	0.200	0.233	0.306	0.267	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.116	0.083	0.124	0.148	0.202	0.237	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.377	0.367	0.376	0.373	0.436	0.404	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.095	0.101	0.117	0.099	0.173	0.184	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.167	0.166	0.166	0.176	0.250	0.297	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.158	0.146	0.166	0.171	0.235	0.296	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.178	0.176	0.215	0.208	0.271	0.238	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.169	0.181	0.205	0.213	0.285	0.313	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.169	0.178	0.201	0.213	0.321	0.308	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.172	0.185	0.196	0.208	0.317	0.279	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.172	0.182	0.185	0.201	0.324	0.274	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.165	0.215	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-71

TOTAL CADMIUM MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.002	0.000	ND	ND	ND	0.000	0.001	0.040	0.000	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.004	0.000	0.001	0.004	0.000	0.000	0.003	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
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	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.000	0.001	0.000	0.000	0.003	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
82 Lockport Treble, Chicago Sanitary & Ship Canal	ND	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.000	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 110th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	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	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.000
56 Indiana Avenue, Little Calumet River	0.002	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	0.000	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.001	0.000	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	ND	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, Cal-Sag Channel	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Cal-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	0.001	0.000	0.001	0.001	0.001	0.000	0.003	0.002	0.000	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
64 Lake Street, West Branch Du Page River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.000	0.000
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
24 Wolf Road, Salt Creek	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000
21 First Avenue, Salt Creek	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.001	0.000	0.000	0.002	0.000	0.000	0.001	0.001	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.001	0.000	0.000	0.003	0.000	0.000	0.001	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.003	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
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-72

TOTAL COPPER MEAN HISTORY THROUGH 2001

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

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-73

TOTAL CHROMIUM MEAN HISTORY THROUGH 2001

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

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-74

TOTAL IRON MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	1.795	3.350	ND	ND	ND	0.690	0.626	0.500	1.100	0.683	0.750
106 Dundee Road, West Fork North Branch Chicago River	1.349	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.953	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.443	0.634	0.734	0.526	0.710	0.786	0.782	0.610	0.725	0.655	0.560
104 Glenview Road, North Branch Chicago River	0.707	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.040	0.565	0.652	0.575	0.492	0.620	0.643	0.500	0.708	0.709	0.680
105 Frontage Road, Skokie River	0.528	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.957	0.502	0.521	0.488	0.431	0.435	0.546	0.382	0.475	0.550	0.300
96 Albany Avenue, North Branch Chicago River	0.666	0.320	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.357	0.268	0.183	0.180	0.181	0.198	0.249	0.125	0.183	0.173	0.055
102 Oakton Street, North Shore Channel	0.560	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.284	0.178	0.136	0.107	0.101	0.139	0.137	0.118	0.118	0.075	0.000
101 Foster Avenue, North Shore Channel	0.295	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.450	0.248	0.210	0.178	0.152	0.203	0.233	0.158	0.150	0.150	0.058
73 Diversay Parkway, North Branch Chicago River	0.538	0.305	0.273	0.248	0.208	0.268	0.261	0.183	0.283	0.158	0.075
46 Grand Avenue, North Branch Chicago River	0.531	0.328	0.283	0.223	0.231	0.236	0.290	0.250	0.275	0.300	0.100
74 Lake Shore Drive, Chicago River	0.219	0.192	0.102	0.098	0.133	0.137	0.149	0.080	0.108	0.067	0.033
100 Wells Street, Chicago River	0.347	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.950	0.386	0.238	0.199	0.165	0.222	0.250	0.140	0.258	0.142	0.033
108 Loomis Street, South Branch Chicago River	0.481	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.822	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.258	0.269	0.212	0.223	0.246	0.447	0.183	0.258	0.250	0.175
107 Western Avenue, Chicago Sanitary & Ship Canal	0.717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.621	0.379	0.313	0.225	0.243	0.268	0.278	0.225	0.275	0.217	0.117
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.331	0.262	0.210	0.141	0.153	0.161	0.239	0.192	0.167	0.183	0.067
42 Route 83, Chicago Sanitary & Ship Canal	0.324	0.182	0.170	0.132	0.224	0.173	0.274	0.364	0.167	0.158	0.075
48 Stephen Street, Chicago Sanitary & Ship Canal	0.466	0.316	0.222	0.261	0.277	0.333	0.370	0.283	0.350	0.492	0.200
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0.616	1.125	1.165	1.386	0.778	0.373	0.352	0.622	0.480	0.913
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.493	0.320	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Irving Avenue, Calumet River	0.429	0.317	0.242	0.213	0.160	0.213	0.213	0.182	0.175	0.186	ND
50 Burnham Avenue, Wolf Lake	0.203	0.123	0.118	0.134	0.081	0.114	0.115	0.183	0.092	0.133	0.075
55 130th Street, Calumet River	0.437	0.365	0.191	0.203	0.195	0.224	0.202	0.182	0.158	0.317	0.200
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	1.111	1.126	0.766	0.963	0.712	1.656	1.579	1.192	1.083	2.508	1.025
56 Indiana Avenue, Little Calumet River	0.633	0.470	0.395	0.334	0.412	0.551	0.564	0.545	0.625	0.433	0.508
76 Halsted Street, Little Calumet River	0.511	0.329	0.251	0.294	0.347	0.413	0.380	0.375	0.517	0.450	0.300
52 Wentworth Avenue, Little Calumet River	1.504	1.156	0.927	1.442	0.983	1.147	0.778	1.173	1.400	1.433	1.208
54 Joe Orr Road, Thorn Creek	0.594	0.433	0.262	0.447	0.368	0.223	0.266	0.242	0.475	0.325	0.567
97 170th Street, Thorn Creek	1.623	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.435	0.642	0.640	0.853	0.669	0.609	0.506	0.630	0.827	0.625	0.882
58 Ashland Avenue, Cal-Sag Channel	0.639	0.439	0.360	0.353	0.718	0.552	0.494	0.467	0.717	0.367	0.817
59 Cicero Avenue, Cal-Sag Channel	0.764	0.478	0.398	0.416	0.510	0.612	0.658	0.575	0.683	0.458	0.792
43 Route 83, Cal-Sag Channel	0.947	0.546	0.388	0.420	0.659	0.690	0.583	0.645	0.767	0.542	0.842
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.840	0.611	0.627	0.508	0.893	0.931	0.645	0.545	0.836	0.600	0.573
63 Longmeadow Lane, West Branch Du Page River	1.256	0.844	0.672	0.749	0.614	0.955	0.944	0.590	0.792	0.627	0.618
89 Walnut Lane, West Branch Du Page River	0.477	0.417	0.285	0.228	0.220	0.408	0.548	0.300	0.342	0.317	0.258
64 Lake Street, West Branch Du Page River	1.062	0.773	0.577	0.536	0.627	0.734	0.666	0.473	0.583	0.433	0.358
79 Higgins Road, Salt Creek	1.119	0.858	0.760	0.737	0.815	0.971	0.668	0.590	0.864	0.564	0.640
80 Arlington Heights Road, Salt Creek	0.511	0.350	0.375	0.220	0.250	0.229	0.213	0.250	0.267	0.208	0.083
18 Devon Avenue, Salt Creek	0.660	0.518	0.583	0.248	0.425	0.298	0.278	0.317	0.300	0.250	0.108
24 Wolf Road, Salt Creek	0.859	0.621	0.557	0.478	0.598	0.602	0.542	0.655	0.658	0.517	0.733
21 First Avenue, Salt Creek	1.204	0.695	0.514	0.457	0.473	0.500	0.439	0.591	0.783	0.491	0.692
77 Elmhurst Road, Higgins Creek	1.127	0.733	0.812	0.748	0.704	1.029	0.956	1.055	0.700	0.645	0.764
78 Wille Road, Higgins Creek	0.334	0.214	0.103	0.415	0.181	0.333	0.337	0.273	0.225	0.050	0.091
12 Lake-Cook Road, Buffalo Creek	0.949	1.027	0.839	0.629	0.599	0.786	0.516	0.780	0.675	0.583	0.700
13 Lake-Cook Road, Des Plaines River	0.992	0.678	0.586	0.537	0.589	0.583	0.431	0.500	0.633	0.483	0.550
17 Oakton Street, Des Plaines River	1.024	0.770	0.577	0.586	0.688	0.504	0.541	0.700	0.667	0.545	0.583
19 Belmont Avenue, Des Plaines River	0.887	0.631	0.490	0.493	0.670	0.507	0.508	0.892	0.600	0.458	0.467
20 Roosevelt Road, Des Plaines River	0.760	0.632	0.514	0.463	0.648	0.483	0.460	0.533	0.667	0.450	0.550
23 Ogden Avenue, Des Plaines River	0.869	0.611	0.510	0.447	0.643	0.479	0.474	0.582	0.800	0.533	0.608
23 Willow Springs Road, Des Plaines River	1.007	0.652	0.557	0.577	0.596	0.550	0.507	0.473	0.617	0.523	0.583
29 Stephen Street, Des Plaines River	1.195	0.707	0.580	0.868	0.572	0.568	0.476	0.618	0.700	0.517	0.667
91 Material Service Road, Des Plaines River	1.216	0.669	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-75

SOLUBLE IRON MEAN HISTORY THROUGH 2001

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

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-76

TOTAL LEAD MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.000	0.000	ND	ND	ND	0.000	0.009	0.830	0.000	0.000	0.000
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	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.006	0.004	0.000	0.000	0.000	0.000	0.024	0.001	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.004	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.005
105 Frontage Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.003	0.000	0.000	0.000	0.000	0.005	0.027	0.004	0.000	0.000	0.003
96 Albany Avenue, North Branch Chicago River	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.005	0.003	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.003
73 Diversey Parkway, North Branch Chicago River	0.027	0.003	0.000	0.000	0.000	0.000	0.015	0.003	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.005	0.005	0.000	0.000	0.000	0.000	0.023	0.005	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.003	0.000	0.000	0.000	0.000	0.015	0.003	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.003	0.000	0.000	0.004	0.000	0.005	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.009	0.000	0.000	0.003	0.000	0.006	0.002	0.000	0.000	0.004
107 Western Avenue, Chicago Sanitary & Ship Canal	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.006	0.004	0.000	0.003	0.000	0.031	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.254	0.000	0.003	0.000	0.000	0.011	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.003	0.000	0.000	0.000	0.000	0.019	0.004	0.000	0.000	0.003
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.004	0.000	0.000	0.017	0.008	0.010	0.000	0.000	0.000	0.000
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	0.000	0.004	0.005	0.007	0.008	0.000	0.001	0.004	0.004	0.003
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.002	0.010	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.003
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	0.000	0.005	0.005	0.000	0.003	0.090	0.017	0.000	0.000	0.010	0.004
56 Indiana Avenue, Little Calumet River	0.003	0.003	0.000	0.000	0.009	0.000	0.005	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.005	0.003	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.003	0.008	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.003
97 170th Street, Thorn Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Cal-Sag Channel	0.003	0.003	0.000	0.000	0.003	0.239	0.000	0.000	0.000	0.000	0.003
59 Cicero Avenue, Cal-Sag Channel	0.001	0.000	0.007	0.000	0.014	0.008	0.000	0.000	0.000	0.000	0.000
43 Route 83, Cal-Sag Channel	0.068	0.006	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.553	0.000	0.000	0.015	0.004	0.000	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	0.000	0.003	0.000	0.000	0.000	0.004	0.023	0.002	0.000	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.000	0.003	0.000	0.358	0.000	0.003	0.017	0.000	0.000	0.000	0.000
64 Lake Street, West Branch Du Page River	0.000	0.004	0.000	0.000	0.000	0.001	0.018	0.005	0.000	0.000	0.004
79 Higgins Road, Salt Creek	0.052	0.004	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.008	0.000	0.000	0.000	0.002	0.011	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.004	0.001	0.019	0.003	0.000	0.000	0.003
24 Wolf Road, Salt Creek	0.005	0.000	0.000	0.000	0.008	0.001	0.008	0.000	0.000	0.000	0.005
21 First Avenue, Salt Creek	0.005	0.004	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.003	0.019	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.002	0.000	0.000	0.000	0.000	0.003	0.015	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	0.000	0.000	0.001	0.004	0.001	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.027	0.004	0.000	0.000	0.009	0.006	0.009	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.002	0.004	0.000	0.000	0.000	0.001	0.018	0.017	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.012	0.000	0.000	0.000	0.003	0.008	0.001	0.000	0.000	0.003
20 Roosevelt Road, Des Plaines River	0.002	0.000	0.000	0.000	0.000	0.000	0.014	0.001	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.003	0.000	0.000	0.000	0.000	0.002	0.038	0.004	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.004	0.000	0.000	0.005	0.005	0.018	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.002	0.000	0.000	0.000	0.003	0.000	0.020	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.007	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-77

TOTAL NICKEL MEAN HISTORY THROUGH 2001

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

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-78

TOTAL MANGANESE MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.122	0.139	ND	ND	ND	0.088	0.077	1.945	0.089	0.084	0.098
106 Dundas Road, West Fork North Branch Chicago River	0.110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.107	0.080	0.217	0.079	0.177	0.183	0.094	0.132	0.090	0.122	0.111
104 Glenview Road, North Branch Chicago River	0.078	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.131	0.100	0.162	0.115	0.123	0.163	0.082	0.101	0.103	0.104	0.111
105 Frontage Road, Skokie River	0.057	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.098	0.067	0.059	0.067	0.066	0.130	0.057	0.065	0.073	0.078	0.068
96 Albany Avenue, North Branch Chicago River	0.068	0.035	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.037	0.021	0.024	0.017	0.026	0.028	0.019	0.008	0.013	0.009	0.000
102 Oakton Street, North Shore Channel	0.036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.038	0.029	0.018	0.015	0.031	0.033	0.019	0.014	0.013	0.008	0.008
101 Foster Avenue, North Shore Channel	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.047	0.042	0.048	0.029	0.028	0.034	0.024	0.025	0.025	0.022	0.011
73 Diversy Parkway, North Branch Chicago River	0.053	0.081	0.027	0.045	0.164	0.042	0.024	0.025	0.043	0.017	0.022
46 Grand Avenue, North Branch Chicago River	0.042	0.044	0.028	0.052	0.026	0.026	0.034	0.031	0.033	0.030	0.011
74 Lake Shore Drive, Chicago River	0.020	0.035	0.010	0.009	0.015	0.010	0.017	0.007	0.032	0.009	0.029
100 Wells Street, Chicago River	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.037	0.039	0.027	0.021	0.019	0.027	0.025	0.022	0.023	0.011	0.005
108 Loomis Street, South Branch Chicago River	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.062	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.038	0.028	0.024	0.024	0.023	0.034	0.023	0.031	0.023	0.061
107 Western Avenue, Chicago Sanitary & Ship Canal	0.070	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.045	0.047	0.027	0.022	0.034	0.033	0.029	0.024	0.033	0.014	0.101
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.030	0.046	0.022	0.019	0.018	0.062	0.024	0.029	0.028	0.013	0.019
42 Route 83, Chicago Sanitary & Ship Canal	0.029	0.028	0.025	0.013	0.024	0.025	0.048	0.053	0.032	0.018	0.013
48 Stephen Street, Chicago Sanitary & Ship Canal	0.050	0.049	0.033	0.026	0.040	0.045	0.038	0.053	0.053	0.042	0.043
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0.049	0.083	0.066	0.093	0.078	0.035	0.039	0.046	0.032	0.048
92 Lockport Porebay, Chicago Sanitary & Ship Canal	0.045	0.074	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.030	0.024	0.029	0.028	0.014	0.042	0.082	0.021	0.019	0.019	ND
50 Burnham Avenue, Wolf Lake	0.043	0.044	0.058	0.062	0.063	0.070	0.046	0.086	0.082	0.058	0.065
55 130th Street, Calumet River	0.046	0.037	0.031	0.038	0.037	0.082	0.035	0.028	0.029	0.032	0.025
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	0.093	0.090	0.058	0.044	0.052	0.159	0.118	0.196	0.113	0.165	0.120
56 Indiana Avenue, Little Calumet River	0.041	0.040	0.057	0.038	0.040	0.074	0.053	0.077	0.108	0.061	0.069
76 Halsted Street, Little Calumet River	0.068	0.058	0.056	0.045	0.046	0.070	0.078	0.068	0.087	0.094	0.093
52 Wentworth Avenue, Little Calumet River	0.145	0.138	0.130	0.149	0.109	0.196	0.104	0.172	0.160	0.175	0.149
54 Joe Orr Road, Thorn Creek	0.070	0.065	0.062	0.043	0.146	0.056	0.041	0.058	0.080	0.106	0.041
97 170th Street, Thorn Creek	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.126	0.093	0.100	0.098	0.089	0.089	0.082	0.098	0.130	0.117	0.111
58 Ashland Avenue, Cal-Sag Channel	0.071	0.069	0.078	0.053	0.048	0.121	0.096	0.073	0.096	0.077	0.243
59 Cicero Avenue, Cal-Sag Channel	0.078	0.064	0.065	0.058	0.060	0.104	0.080	0.078	0.092	0.079	0.094
43 Route 83, Cal-Sag Channel	0.076	0.063	0.061	0.053	0.064	0.077	0.066	0.085	0.093	0.071	0.103
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.107	0.155	0.068	0.164	0.208	0.136	0.113	0.104	0.119	0.120	0.115
63 Longmeadow Lane, West Branch Du Page River	0.151	0.118	0.073	0.174	0.108	0.132	0.128	0.092	0.093	0.115	0.075
89 Walnut Lane, West Branch Du Page River	0.074	0.105	0.038	0.080	0.133	0.053	0.065	0.044	0.050	0.046	0.020
64 Lake Street, West Branch Du Page River	0.092	0.065	0.061	0.068	0.111	0.090	0.067	0.075	0.074	0.056	0.030
79 Higgins Road, Salt Creek	0.124	0.092	0.091	0.092	0.252	0.113	0.093	0.107	0.105	0.117	0.077
80 Arlington Heights Road, Salt Creek	0.051	0.061	0.050	0.064	0.115	0.058	0.051	0.063	0.058	0.048	0.052
18 Devon Avenue, Salt Creek	0.055	0.085	0.069	0.050	0.153	0.061	0.048	0.059	0.063	0.054	0.054
24 Wolf Road, Salt Creek	0.077	0.087	0.065	0.083	0.064	0.087	0.065	0.081	0.068	0.049	0.062
21 First Avenue, Salt Creek	0.101	0.061	0.055	0.068	0.058	0.076	0.063	0.084	0.075	0.056	0.063
77 Elmhurst Road, Higgins Creek	0.163	0.133	0.112	0.136	0.111	0.140	0.135	0.160	0.106	0.165	0.145
78 Wille Road, Higgins Creek	0.038	0.064	0.022	0.093	0.043	0.063	0.038	0.032	0.031	0.023	0.013
12 Lake-Cook Road, Buffalo Creek	0.116	0.148	0.168	0.165	0.195	0.197	0.137	0.178	0.128	0.123	0.134
13 Lake-Cook Road, Des Plaines River	0.090	0.071	0.065	0.111	0.218	0.094	0.069	0.092	0.091	0.073	0.112
17 Oakton Street, Des Plaines River	0.102	0.093	0.071	0.098	0.077	0.088	0.083	0.073	0.094	0.086	0.075
19 Belmont Avenue, Des Plaines River	0.090	0.069	0.059	0.096	0.074	0.094	0.080	0.093	0.080	0.077	0.068
20 Roosevelt Road, Des Plaines River	0.077	0.065	0.061	0.080	0.073	0.080	0.070	0.093	0.089	0.078	0.085
22 Ogden Avenue, Des Plaines River	0.075	0.060	0.056	0.068	0.072	0.072	0.091	0.110	0.093	0.066	0.073
23 Willow Springs Road, Des Plaines River	0.083	0.093	0.062	0.083	0.065	0.250	0.085	0.077	0.063	0.072	0.133
29 Stephen Street, Des Plaines River	0.086	0.081	0.064	0.078	0.072	0.078	0.073	0.086	0.076	0.083	0.078
91 Material Service Road, Des Plaines River	0.097	0.061	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-79

TOTAL MERCURY MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (µg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.000	0.000	ND	ND	ND	0.000	0.033	0.100	0.044	0.000	0.000
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	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.007	0.000	0.019	0.044	0.030	0.125	0.030	0.040	0.027	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.005	0.024	0.035	0.038	0.050	0.000	0.022	0.044	0.033	0.000	0.000
105 Frontage Road, Skokie River	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.022	0.037	0.040	0.036	0.000	0.030	0.036	0.033	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.013	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.006	0.000	0.012	0.028	0.040	0.000	0.000	0.025	0.017	0.000	0.000
102 Oakton Street, North Shore Channel	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.028	0.017	0.006	0.033	0.054	0.000	0.042	0.045	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.018	0.008	0.016	0.043	0.075	0.000	0.025	0.033	0.025	0.000	0.000
73 Diversay Parkway, North Branch Chicago River	0.013	0.059	0.036	0.043	0.092	0.000	0.033	0.025	0.027	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.028	0.021	0.043	0.095	0.000	0.008	0.000	0.033	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.015	0.025	0.044	0.009	0.036	0.000	0.010	0.017	0.000	0.000
100 Wells Street, Chicago River	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.029	0.028	0.033	0.009	0.000	0.000	0.040	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.011	0.017	0.031	0.008	0.000	0.022	0.025	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.028	0.022	0.043	0.067	0.000	0.008	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.016	0.026	0.018	0.034	0.017	0.025	0.000	0.000	0.033	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.015	0.018	0.033	0.050	0.000	0.025	0.045	0.017	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.005	0.006	0.026	0.017	0.033	0.008	0.008	0.033	0.000	0.000
82 Lockport Trestler, Chicago Sanitary & Ship Canal	ND	0.007	0.021	0.000	0.008	0.004	0.017	0.006	0.000	0.000	0.043
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.013	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.004	0.013	0.008	0.030	0.033	0.020	0.050	0.027	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.009	0.010	0.021	0.027	0.033	0.017	0.064	0.058	0.000	0.000	0.000
55 130th Street, Calumet River	0.014	0.000	0.035	0.033	0.067	0.030	0.030	0.045	0.033	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	0.032	0.000	0.051	0.128	0.083	1.518	0.133	0.100	0.042	0.100	0.042
56 Indiana Avenue, Little Calumet River	0.021	0.008	0.029	0.041	0.064	0.020	0.000	0.018	0.017	0.000	0.000
76 Halsted Street, Little Calumet River	0.003	0.005	0.038	0.033	0.375	0.000	0.036	0.050	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.024	0.015	0.016	0.033	0.050	0.044	0.022	0.045	0.017	0.025	0.000
54 Joe Orr Road, Thorn Creek	0.004	0.000	0.035	0.036	0.042	0.000	0.009	0.067	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.020	0.000	0.040	0.042	0.050	0.011	0.010	0.020	0.000	0.000	0.000
58 Ashland Avenue, Cal-Sag Channel	0.008	0.014	0.014	0.014	0.933	0.008	0.020	0.033	0.000	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.013	0.016	0.013	0.035	0.092	0.000	0.064	0.042	0.033	0.000	0.000
43 Route 83, Cal-Sag Channel	0.018	0.008	0.016	0.040	0.083	0.000	0.018	0.027	0.000	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.027	0.000	0.021	0.505	0.122	0.018	0.030	0.036	0.018	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	0.000	0.000	0.012	0.041	0.030	0.018	0.017	0.040	0.033	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.009	0.017	0.053	0.328	0.042	0.008	0.017	0.017	0.000	0.000	0.000
64 Lake Street, West Branch Du Page River	0.009	0.007	0.060	0.021	0.058	0.009	0.025	0.045	0.033	0.000	0.000
79 Higgins Road, Salt Creek	0.005	0.018	0.058	0.062	0.055	0.010	0.000	0.010	0.055	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.009	0.000	0.057	0.067	0.050	0.008	0.025	0.030	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.012	0.000	0.061	0.035	0.067	0.008	0.017	0.017	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.014	0.000	0.044	0.077	0.033	0.033	0.042	0.000	0.017	0.000	0.025
21 First Avenue, Salt Creek	0.009	0.000	0.062	0.019	0.027	0.017	0.017	0.064	0.050	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.015	0.000	0.045	0.053	0.036	0.050	0.008	0.018	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.017	0.008	0.050	0.019	0.033	0.017	0.008	0.018	0.033	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.010	0.000	0.068	0.045	0.055	0.008	0.025	0.030	0.017	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.016	0.000	0.056	0.058	0.045	0.000	0.050	0.067	0.017	0.000	0.000
17 Oakton Street, Des Plaines River	0.019	0.000	0.079	0.036	0.018	0.033	0.009	0.000	0.050	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.062	0.052	0.025	0.025	0.000	0.025	0.017	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.011	0.000	0.064	0.051	0.025	0.025	0.000	0.042	0.017	0.000	0.025
22 Ogden Avenue, Des Plaines River	0.017	0.000	0.064	0.012	0.017	0.000	0.033	0.045	0.033	0.000	0.025
23 Willow Springs Road, Des Plaines River	0.033	0.000	0.095	0.025	0.055	0.055	0.000	0.045	0.033	0.000	0.000
29 Stephen Street, Des Plaines River	0.029	0.000	0.065	0.033	0.017	0.000	0.017	0.055	0.033	0.000	0.000
91 Material Service Road, Des Plaines River	0.016	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-80

TOTAL ZINC MEAN HISTORY THROUGH 2001

Sampling Station No. Name	Annual Means (mg/L)										
	01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	0.070	0.079	ND	ND	ND	0.033	0.024	6.600	0.000	0.025	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.091	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.056	0.020	0.027	0.005	0.019	0.013	0.006	0.040	0.000	0.009	0.000
104 Glenview Road, North Branch Chicago River	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.049	0.024	0.032	0.009	0.020	0.028	0.010	0.000	0.008	0.018	0.000
105 Frontage Road, Skokie River	0.038	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.040	0.036	0.058	0.008	0.025	0.035	0.012	0.018	0.008	0.017	0.000
96 Albany Avenue, North Branch Chicago River	0.041	0.038	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.023	0.015	0.007	0.001	0.009	0.012	0.004	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.055	0.047	0.037	0.017	0.038	0.043	0.014	0.027	0.000	0.025	0.000
101 Foster Avenue, North Shore Channel	0.047	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.055	0.046	0.033	0.013	0.028	0.039	0.015	0.008	0.013	0.017	0.000
73 Diversey Parkway, North Branch Chicago River	0.056	0.062	0.043	0.020	0.057	0.053	0.013	0.000	0.000	0.017	0.000
46 Grand Avenue, North Branch Chicago River	0.049	0.049	0.035	0.015	0.034	0.028	0.023	0.017	0.008	0.017	0.000
74 Lake Shore Drive, Chicago River	0.039	0.031	0.011	0.008	0.025	0.006	0.000	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.044	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.061	0.043	0.028	0.011	0.024	0.027	0.016	0.000	0.017	0.017	0.000
108 Loomis Street, South Branch Chicago River	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.055	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Dawson Avenue, Chicago Sanitary & Ship Canal	ND	0.039	0.023	0.012	0.028	0.023	0.039	0.017	0.017	0.008	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	0.078	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.057	0.046	0.033	0.012	0.032	0.033	0.016	0.025	0.008	0.008	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.046	0.047	0.036	0.013	0.033	0.036	0.021	0.042	0.008	0.033	0.000
42 Route 81, Chicago Sanitary & Ship Canal	0.048	0.036	0.031	0.018	0.046	0.037	0.023	0.036	0.017	0.008	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.052	0.046	0.028	0.015	0.041	0.043	0.024	0.025	0.017	0.025	0.000
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	0.075	0.094	0.162	0.141	0.133	0.069	0.049	0.067	0.023	0.092
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.049	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Swing Avenue, Calumet River	0.030	0.022	0.025	0.013	0.008	0.027	0.011	0.009	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.026	0.015	0.013	0.008	0.007	0.016	0.003	0.008	0.000	0.000	0.000
55 130th Street, Calumet River	0.044	0.022	0.015	0.019	0.012	0.028	0.014	0.009	0.000	0.000	0.000
51 IHR Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Burnham Avenue, Grand Calumet River	0.075	0.078	0.080	0.103	0.068	0.296	0.102	0.075	0.075	0.233	0.000
56 Indiana Avenue, Little Calumet River	0.034	0.040	0.032	0.028	0.025	0.031	0.038	0.009	0.017	0.000	0.000
76 Halsted Street, Little Calumet River	0.066	0.047	0.027	0.034	0.036	0.133	0.056	0.033	0.017	0.025	0.000
52 Wentworth Avenue, Little Calumet River	0.046	0.045	0.028	0.023	0.031	0.054	0.021	0.038	0.000	0.033	0.000
54 Joe Orr Road, Thorn Creek	0.065	0.060	0.041	0.032	0.054	0.042	0.025	0.025	0.008	0.017	0.000
97 170th Street, Thorn Creek	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.052	0.060	0.031	0.063	0.032	0.026	0.018	0.010	0.027	0.008	0.000
58 Ashland Avenue, Cal-Sag Channel	0.066	0.054	0.030	0.028	0.032	0.095	0.063	0.008	0.033	0.033	0.000
59 Cicero Avenue, Cal-Sag Channel	0.050	0.044	0.036	0.024	0.038	0.054	0.046	0.042	0.033	0.025	0.000
43 Route 83, Cal-Sag Channel	0.064	0.062	0.035	0.042	0.064	0.057	0.030	0.045	0.050	0.033	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.024	0.012	0.015	0.015	0.037	0.021	0.019	0.000	0.009	0.000	0.000
63 Longmeadow Lane, West Branch Du Page River	0.041	0.022	0.036	0.023	0.035	0.040	0.043	0.000	0.017	0.000	0.000
89 Walnut Lane, West Branch Du Page River	0.061	0.047	0.042	0.059	0.042	0.038	0.058	0.008	0.017	0.017	0.000
64 Lake Street, West Branch Du Page River	0.066	0.037	0.029	0.039	0.040	0.053	0.038	0.018	0.033	0.017	0.000
79 Higgins Road, Salt Creek	0.027	0.018	0.020	0.006	0.027	0.026	0.020	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.039	0.034	0.027	0.016	0.031	0.019	0.022	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.035	0.034	0.033	0.014	0.028	0.017	0.023	0.000	0.008	0.000	0.000
24 Wolf Road, Salt Creek	0.054	0.143	0.052	0.045	0.031	0.032	0.032	0.027	0.008	0.008	0.000
21 First Avenue, Salt Creek	0.059	0.038	0.041	0.029	0.026	0.030	0.031	0.027	0.025	0.009	0.000
77 Elmhurst Road, Higgins Creek	0.041	0.032	0.025	0.029	0.015	0.038	0.032	0.036	0.000	0.009	0.027
78 Wille Road, Higgins Creek	0.062	0.067	0.045	0.062	0.043	0.045	0.050	0.036	0.033	0.033	0.000
12 Lake-Cook Road, Buffalo Creek	0.035	0.020	0.023	0.011	0.026	0.012	0.020	0.020	0.008	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.036	0.030	0.023	0.021	0.063	0.028	0.022	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.037	0.033	0.025	0.024	0.014	0.023	0.029	0.033	0.008	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.041	0.030	0.025	0.031	0.023	0.023	0.030	0.017	0.008	0.008	0.033
20 Roosevelt Road, Des Plaines River	0.038	0.029	0.033	0.023	0.028	0.025	0.033	0.017	0.017	0.017	0.000
22 Ogden Avenue, Des Plaines River	0.050	0.047	0.040	0.025	0.033	0.031	0.033	0.018	0.008	0.008	0.000
23 Willow Springs Road, Des Plaines River	0.048	0.056	0.035	0.033	0.029	0.032	0.025	0.009	0.017	0.008	0.000
29 Stephen Street, Des Plaines River	0.047	0.043	0.031	0.026	0.031	0.030	0.040	0.036	0.033	0.000	0.000
91 Material Service Road, Des Plaines River	0.049	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-81

TOTAL SELENIUM MEAN HISTORY THROUGH 2001

Sampling Station No. Name		Annual Means (mg/L)										
		01	00	99	98	97	96	95	94	93	92	91
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	0.000	0.000	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000
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	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.005	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.002	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.000
105	Frontage Road, Skokie River	0.002	ND	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	0.000	0.013	0.000	0.000	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.002	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000
101	Poster Avenue, North Shore Channel	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.007	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.006	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000
74	Lake Shore Drive, Chicago River	0.002	0.000	0.000	0.000	0.024	0.000	0.024	0.000	0.000	0.000	0.000
100	Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.003	0.000	0.000	0.000	0.019	0.000	0.007	0.000	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.007	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.005	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.007	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.009	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.003	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	ND
50	Burnham Avenue, Wolf Lake	0.003	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	0.004	0.000	0.000	0.000	0.000	0.000	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	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.000	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	0.008	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	Westworth Avenue, Little Calumet River	0.008	0.008	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.003	0.008	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	Ashland Avenue, Cal-Sag Channel	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	Cicero Avenue, Cal-Sag Channel	0.008	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000
43	Route 83, Cal-Sag Channel	0.002	0.000	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	0.004	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000
63	Longmeadow Lane, West Branch Du Page River	0.005	0.000	0.000	0.000	0.003	0.002	0.013	0.000	0.000	0.000	0.000
89	Walnut Lane, West Branch Du Page River	0.007	0.000	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	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	Higgins Road, Salt Creek	0.011	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.010	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000
18	Devon Avenue, Salt Creek	0.008	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000
24	Wolf Road, Salt Creek	0.012	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000
21	Firat Avenue, Salt Creek	0.007	0.000	0.000	0.000	0.000	0.001	0.020	0.000	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.008	0.000	0.000	0.000	0.000	0.003	0.023	0.000	0.000	0.000	0.000
78	Wille Road, Higgins Creek	0.007	0.000	0.000	0.000	0.017	0.000	0.007	0.000	0.000	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.010	0.020	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.009	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.003	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.008	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.007	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.008	0.000	0.000	0.000	0.000	0.001	0.007	0.000	0.000	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.005	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.006	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000
91	Material Service Road, Des Plaines River	0.005	0.005	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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
BOD <sub>5</sub> (mg/L)	1.56	6.90	0.010	-	-	0.003	0.003
CBOD <sub>5</sub> (mg/L)	0.22	2.20	0.000	-	-	0.006	0.006
DO (mg/L)	8.03	7.39	0.142	0.161	0.336	0.413	0.336
Temp (°C)	15.3	16.9	0.146	0.377	0.590	0.644	0.590
pH	7.77	7.19	0.012	-	-	0.005	0.005
Cl (mg/L)	16	152	0.000	-	-	0.000	0.000
Turb (NTU)	10.3	6.7	0.000	-	-	0.011	0.011
Alk (mg/L)	111	151	0.004	-	-	0.001	0.001
TKN (mg/L)	0.63	2.66	0.032	-	-	0.000	0.000
NH <sub>4</sub> -N (mg/L)	0.183	1.063	0.001	-	-	0.000	0.000
NH <sub>3</sub> -N (mg/L)	0.004	0.007	0.000	-	-	0.456	0.456
ORG-N (mg/L)	0.44	1.60	0.067	0.003	0.000	0.000	0.000
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.28	5.57	0.001	-	-	0.000	0.000
TS (mg/L)	230	542	0.004	-	-	0.001	0.001
TSS (mg/L)	9.8	8.5	0.001	-	-	0.943	0.943
VSS (mg/L)	2.22	3.83	0.090	0.165	0.093	0.112	0.093
TDS (mg/L)	220	534	0.004	-	-	0.001	0.001
Phenol (µg/L)	4.6	14.3	0.045	-	-	0.019	0.019
SO <sub>4</sub> (mg/L)	25.6	79.8	0.000	-	-	0.000	0.000
FOG (mg/L)	-	4.79	0.282	-	-	-	-
T.P (mg/L)	0.058	1.259	0.007	-	-	0.000	0.000
Sol.P (mg/L)	0.053	0.928	0.237	0.018	0.001	0.027	0.001
CN (mg/L)	0.001	0.006	0.054	0.007	0.000	0.000	0.000
WAD-CN (mg/L)	0.000	0.001	0.120	0.331	0.001	0.001	0.001
F (mg/L)	0.138	0.694	0.001	-	-	0.000	0.000
TOC (mg/L)	3.33	8.00	0.009	-	-	0.000	0.000
FC (#/100 ml)	356	4211	0.001	-	-	0.002	0.002
EC (#/100 ml)	548	5337	0.011	-	-	0.383	0.383
Ca (mg/L)	37.7	61.8	0.025	-	-	0.000	0.000
Sol.Ca (mg/L)	34.7	52.7	0.039	-	-	0.000	0.000
Mg (mg/L)	12.2	23.2	0.010	-	-	0.000	0.000
Sol.Mg (mg/L)	11.3	19.8	0.014	-	-	0.000	0.000
Hard (mg/L)	144	250	0.018	-	-	0.000	0.000
G.Alpha (pCi/L)	3.45	4.29	0.211	0.323	0.087	0.044	0.087
G.Beta (pCi/L)	4.44	7.12	0.206	0.421	0.003	0.006	0.003

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
Ag (mg/L)	0.001	0.001	0.000	-	-	0.832	0.832
Sol.Ag (mg/L)	0.000	0.001	0.000	-	-	0.563	0.563
As (mg/L)	0.006	0.005	0.000	-	-	1.000	1.000
Sol.As (mg/L)	0.003	0.003	0.000	-	-	0.671	0.671
Ba (mg/L)	0.026	0.027	0.000	-	-	0.619	0.619
Sol.Ba (mg/L)	0.021	0.019	0.314	0.143	0.011	0.030	0.011
B (mg/L)	0.030	0.211	0.001	-	-	0.000	0.000
Sol.B (mg/L)	0.023	0.196	0.000	-	-	0.000	0.000
Cd (mg/L)	0.001	0.001	0.004	-	-	0.604	0.604
Sol.Cd (mg/L)	0.000	0.000	0.001	-	-	0.387	0.387
Cu (mg/L)	0.016	0.018	0.089	0.418	0.290	0.315	0.290
Sol.Cu (mg/L)	0.003	0.004	0.094	0.181	0.313	0.340	0.313
Cr (mg/L)	0.003	0.002	0.000	-	-	0.593	0.593
Sol.Cr (mg/L)	0.001	0.000	0.000	-	-	0.939	0.939
Cr <sup>+6</sup> (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	0.357	0.284	0.000	-	-	0.286	0.286
Sol.Fe (mg/L)	0.042	0.070	0.167	0.277	0.000	0.000	0.000
Pb (mg/L)	0.006	0.005	0.000	-	-	1.000	1.000
Sol.Pb (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Ni (mg/L)	0.003	0.006	0.000	-	-	0.213	0.213
Sol.Ni (mg/L)	0.001	0.004	0.000	-	-	0.171	0.171
Mn (mg/L)	0.037	0.038	0.000	-	-	0.546	0.546
Sol.Mn (mg/L)	0.013	0.023	0.000	-	-	0.270	0.270
Hg (µg/L)	0.006	0.028	0.000	-	-	0.770	0.770
Sol.Hg (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Zn (mg/L)	0.023	0.055	0.025	-	-	0.002	0.002
Sol.Zn (mg/L)	0.004	0.029	0.087	0.002	0.000	0.000	0.000
Se (mg/L)	0.007	0.002	0.000	-	-	0.381	0.381
Sol.Se (mg/L)	0.000	0.000	-	-	-	1.000	1.000

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

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

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

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

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

- = No statistics or applicable test exists.

\*Geometric Mean

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
BOD <sub>5</sub> (mg/L)	2.20	2.90	0.008	-	-	0.549	0.549
CBOD <sub>5</sub> (mg/L)	1.30	1.30	0.000	-	-	1.000	1.000
DO (mg/L)	5.28	6.60	0.126	0.405	0.030	0.015	0.030
Temp (°C)	18.1	17.1	0.133	0.447	0.736	0.795	0.736
pH	7.23	7.19	0.309	0.191	0.750	0.640	0.750
Cl (mg/L)	148	170	0.001	-	-	0.371	0.371
Turb (NTU)	13.6	8.5	0.057	0.052	0.001	0.002	0.001
Alk (mg/L)	141	139	0.730	0.388	0.785	0.623	0.785
TKN (mg/L)	1.92	1.91	0.006	-	-	0.817	0.817
NH <sub>4</sub> -N (mg/L)	0.769	0.754	0.000	-	-	0.341	0.341
NH <sub>3</sub> -N (mg/L)	0.005	0.005	0.000	-	-	0.436	0.436
ORG-N (mg/L)	1.15	1.16	0.165	0.233	0.928	0.564	0.928
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	3.54	6.26	0.717	0.434	0.000	0.001	0.000
TS (mg/L)	522	584	0.007	-	-	0.371	0.371
TSS (mg/L)	20.8	10.8	0.033	-	-	0.001	0.001
VSS (mg/L)	5.00	3.17	0.029	-	-	0.003	0.003
TDS (mg/L)	502	574	0.012	-	-	0.341	0.341
Phenol (µg/L)	11.7	14.8	0.110	0.341	0.400	0.451	0.400
SO <sub>4</sub> (mg/L)	46.8	63.6	0.702	0.417	0.010	0.028	0.010
FOG (mg/L)	4.09	4.09	0.000	-	-	0.344	0.344
T.P (mg/L)	0.671	0.990	0.149	0.320	0.058	0.046	0.058
Sol.P (mg/L)	0.646	0.618	0.364	0.494	0.911	1.000	0.911
CN (mg/L)	0.004	0.006	0.151	0.177	0.042	0.060	0.042
WAD-CN (mg/L)	0.001	0.001	0.227	0.327	0.227	0.309	0.227
F (mg/L)	0.471	0.632	0.298	0.318	0.026	0.038	0.026
TOC (mg/L)	6.58	7.25	0.036	-	-	0.373	0.373
FC (#/100 ml)*	303	4126	0.154	0.095	0.001	0.002	0.001
EC (#/100 ml)	70	3900	0.270	0.014	0.147	0.245	0.147
Ca (mg/L)	55.7	59.6	0.612	0.346	0.413	0.507	0.413
Sol.Ca (mg/L)	48.9	50.7	0.936	0.468	0.672	0.850	0.672
Mg (mg/L)	21.3	23.1	0.277	0.326	0.471	0.583	0.471
Sol.Mg (mg/L)	18.3	19.2	0.838	0.470	0.662	0.734	0.662
Hard (mg/L)	227	244	0.399	0.335	0.438	0.544	0.438
G.Alpha (pCi/L)	4.32	4.49	0.263	0.386	0.575	0.473	0.575
G.Beta (pCi/L)	8.01	8.32	0.320	0.181	0.809	0.623	0.809

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
Ag (mg/L)	0.001	0.000	0.000	-	-	0.929	0.929
Sol.Ag (mg/L)	0.000	0.000	0.000	-	-	0.583	0.583
As (mg/L)	0.004	0.006	0.000	-	-	0.664	0.664
Sol.As (mg/L)	0.004	0.000	0.000	-	-	0.034	0.034
Ba (mg/L)	0.031	0.026	0.038	-	-	0.009	0.009
Sol.Ba (mg/L)	0.020	0.017	0.089	0.332	0.040	0.017	0.040
B (mg/L)	0.143	0.190	0.239	0.273	0.045	0.026	0.045
Sol.B (mg/L)	0.119	0.163	0.579	0.405	0.054	0.045	0.054
Cd (mg/L)	0.001	0.000	0.000	-	-	0.196	0.196
Sol.Cd (mg/L)	0.000	0.000	0.101	0.342	0.952	0.878	0.952
Cu (mg/L)	0.020	0.014	0.077	0.000	0.006	0.005	0.006
Sol.Cu (mg/L)	0.005	0.004	0.000	-	-	0.760	0.760
Cr (mg/L)	0.003	0.005	0.000	-	-	0.266	0.266
Sol.Cr (mg/L)	0.000	0.002	0.000	-	-	0.101	0.101
Cr <sup>+6</sup> (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	0.621	0.331	0.005	-	-	0.000	0.000
Sol.Fe (mg/L)	0.073	0.106	0.000	-	-	0.125	0.125
Pb (mg/L)	0.000	0.002	0.000	-	-	0.384	0.384
Sol.Pb (mg/L)	0.000	0.001	0.000	-	-	0.368	0.368
Ni (mg/L)	0.005	0.005	0.011	-	-	0.907	0.907
Sol.Ni (mg/L)	0.003	0.003	0.003	-	-	1.000	1.000
Mn (mg/L)	0.045	0.030	0.000	-	-	0.026	0.026
Sol.Mn (mg/L)	0.018	0.015	0.070	0.092	0.385	0.650	0.385
Hg (µg/L)	0.003	0.016	0.000	-	-	0.266	0.266
Sol.Hg (µg/L)	-	0.017	0.000	-	-	-	-
Zn (mg/L)	0.057	0.046	0.419	0.276	0.230	0.236	0.230
Sol.Zn (mg/L)	0.018	0.022	0.075	0.145	0.435	0.570	0.435
Se (mg/L)	0.007	0.004	0.000	-	-	0.625	0.625
Sol.Se (mg/L)	0.000	0.000	-	-	-	1.000	1.000

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

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

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

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

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

- = No statistics or applicable test exists.

\*Geometric Mean

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
BOD <sub>5</sub> (mg/L)	2.75	2.90	0.000	-	-	0.738	0.738
CBOD <sub>5</sub> (mg/L)	1.38	1.40	0.001	-	-	0.922	0.922
DO (mg/L)	8.59	6.69	0.002	-	-	0.001	0.001
Temp (°C)	17.8	15.0	0.204	0.484	0.408	0.412	0.408
pH	7.79	7.21	0.135	0.022	0.017	0.025	0.017
Cl (mg/L)	95	162	0.054	0.178	0.042	0.059	0.042
Turb (NTU)	17.9	11.1	0.104	0.052	0.015	0.049	0.015
Alk (mg/L)	126	159	0.124	0.029	0.012	0.021	0.012
TKN (mg/L)	1.05	1.58	0.094	0.076	0.045	0.070	0.045
NH <sub>4</sub> -N (mg/L)	0.127	0.355	0.000	-	-	0.114	0.114
NH <sub>3</sub> -N (mg/L)	0.004	0.002	0.000	-	-	0.335	0.335
ORG-N (mg/L)	0.92	1.23	0.860	0.453	0.102	0.132	0.102
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.95	4.80	0.176	0.224	0.005	0.008	0.005
TS (mg/L)	414	622	0.008	-	-	0.070	0.070
TSS (mg/L)	29.6	15.4	0.007	-	-	0.020	0.020
VSS (mg/L)	5.38	4.25	0.378	0.379	0.324	0.350	0.324
TDS (mg/L)	385	606	0.011	-	-	0.028	0.028
Phenol (µg/L)	6.0	11.4	0.002	-	-	0.237	0.237
SO <sub>4</sub> (mg/L)	73.4	113.3	0.259	0.279	0.031	0.049	0.031
FOG (mg/L)	3.39	4.54	0.006	-	-	0.755	0.755
T.P (mg/L)	0.554	1.386	0.072	0.452	0.012	0.028	0.012
Sol.P (mg/L)	0.090	1.372	0.902	-	-	0.242	-
CN (mg/L)	0.002	0.007	0.319	0.061	0.001	0.002	0.001
WAD-CN (mg/L)	0.000	0.001	0.037	-	-	0.010	0.010
F (mg/L)	0.375	0.730	0.000	-	-	0.007	0.007
TOC (mg/L)	5.75	7.50	0.051	0.108	0.028	0.049	0.028
FC (#/100 ml)*	364	2550	0.130	0.304	0.035	0.023	0.035
EC (#/100 ml)	670	3350	0.972	0.406	0.127	0.245	0.127
Ca (mg/L)	52.5	71.1	0.234	0.063	0.019	0.034	0.019
Sol.Ca (mg/L)	48.5	63.1	0.133	0.093	0.071	0.100	0.071
Mg (mg/L)	20.1	26.5	0.041	-	-	0.114	0.114
Sol.Mg (mg/L)	19.1	23.4	0.016	-	-	0.267	0.267
Hard (mg/L)	214	287	0.124	0.081	0.038	0.049	0.038
G.Alpha (pCi/L)	4.25	4.34	0.322	0.362	0.846	1.000	0.846
G.Beta (pCi/L)	8.20	7.44	0.087	0.037	0.662	0.916	0.662

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
Ag (mg/L)	0.002	0.001	0.000	-	-	0.694	0.694
Sol.Ag (mg/L)	0.001	0.000	0.000	-	-	0.122	0.122
As (mg/L)	0.004	0.005	0.000	-	-	0.658	0.658
Sol.As (mg/L)	0.000	0.002	0.000	-	-	0.222	0.222
Ba (mg/L)	0.035	0.030	0.131	0.172	0.268	0.132	0.268
Sol.Ba (mg/L)	0.028	0.022	0.017	-	-	0.046	0.046
B (mg/L)	0.152	0.228	0.792	0.145	0.043	0.097	0.043
Sol.B (mg/L)	0.143	0.194	0.367	0.022	0.162	0.248	0.162
Cd (mg/L)	0.002	0.000	0.000	-	-	0.240	0.240
Sol.Cd (mg/L)	0.000	0.000	0.008	-	-	0.927	0.927
Cu (mg/L)	0.014	0.017	0.316	0.368	0.456	0.439	0.456
Sol.Cu (mg/L)	0.002	0.003	0.002	-	-	0.581	0.581
Cr (mg/L)	0.002	0.004	0.000	-	-	0.253	0.253
Sol.Cr (mg/L)	0.001	0.002	0.000	-	-	0.457	0.457
Cr <sup>+6</sup> (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	0.633	0.511	0.023	-	-	0.132	0.132
Sol.Fe (mg/L)	0.057	0.082	0.932	0.159	0.021	0.023	0.021
Pb (mg/L)	0.002	0.000	0.000	-	-	0.262	0.262
Sol.Pb (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Ni (mg/L)	0.002	0.003	0.006	-	-	0.575	0.575
Sol.Ni (mg/L)	0.001	0.001	0.000	-	-	0.736	0.736
Mn (mg/L)	0.041	0.068	0.000	-	-	0.059	0.059
Sol.Mn (mg/L)	0.009	0.040	0.024	-	-	0.004	0.004
Hg (µg/L)	0.021	0.003	0.000	-	-	0.291	0.291
Sol.Hg (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Zn (mg/L)	0.034	0.066	0.008	-	-	0.031	0.031
Sol.Zn (mg/L)	0.008	0.023	0.031	-	-	0.007	0.007
Se (mg/L)	0.000	0.007	0.000	-	-	0.086	0.086
Sol.Se (mg/L)	0.000	0.000	-	-	-	1.000	1.000

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

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

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

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

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

- = No statistics or applicable test exists.

\*Geometric Mean



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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
BOD <sub>5</sub> (mg/L)	-	-	-	-	-	-	-
CBOD <sub>5</sub> (mg/L)	-	-	-	-	-	-	-
DO (mg/L)	8.88	8.29	0.984	0.020	0.596	0.767	0.596
Temp (°C)	16.8	14.5	0.426	0.404	0.523	0.621	0.523
pH	7.50	7.44	0.003	-	-	1.000	1.000
Cl (mg/L)	327	234	0.017	-	-	0.138	0.138
Turb (NTU)	22.5	9.8	0.059	0.508	0.000	0.001	0.000
Alk (mg/L)	182	147	0.435	0.091	0.012	0.029	0.012
TKN (mg/L)	1.49	1.64	0.535	0.103	0.321	0.448	0.321
NH <sub>4</sub> -N (mg/L)	0.106	0.192	0.009	-	-	0.274	0.274
NH <sub>3</sub> -N (mg/L)	0.001	0.002	0.000	-	-	0.446	0.446
ORG-N (mg/L)	1.38	1.45	0.692	0.038	0.698	0.621	0.698
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.28	6.92	0.002	-	-	0.000	0.000
TS (mg/L)	896	743	0.010	-	-	0.222	0.222
TSS (mg/L)	33.9	11.3	0.040	-	-	0.001	0.001
VSS (mg/L)	9.30	3.75	0.002	-	-	0.001	0.001
TDS (mg/L)	862	732	0.009	-	-	0.410	0.410
Phenol (µg/L)	13.4	15.3	0.446	0.472	0.619	0.692	0.619
SO <sub>4</sub> (mg/L)	89.5	84.4	0.041	-	-	0.895	0.895
FOG (mg/L)	-	-	-	-	-	-	-
T.P (mg/L)	0.106	1.687	0.002	-	-	0.000	0.000
Sol.P (mg/L)	0.000	1.265	0.030	-	-	0.011	0.011
CN (mg/L)	0.002	0.008	0.031	-	-	0.001	0.001
WAD-CN (mg/L)	0.001	0.002	0.004	-	-	0.007	0.007
F (mg/L)	0.253	0.572	0.017	-	-	0.002	0.002
TOC (mg/L)	9.20	9.83	0.007	-	-	0.151	0.151
FC (#/100 ml)*	49	426	0.197	0.248	0.006	0.011	0.006
EC (#/100 ml)	122	1027	0.000	-	-	0.092	0.092
Ca (mg/L)	79.3	69.2	0.189	0.016	0.264	0.468	0.264
Sol.Ca (mg/L)	72.1	60.0	0.279	0.028	0.153	0.241	0.153
Mg (mg/L)	36.7	28.6	0.003	-	-	0.176	0.176
Sol.Mg (mg/L)	34.0	24.5	0.012	-	-	0.054	0.054
Hard (mg/L)	349	290	0.022	-	-	0.339	0.339
G.Alpha (pCi/L)	5.54	5.07	0.619	0.249	0.251	0.273	0.251
G.Beta (pCi/L)	7.05	9.32	0.353	0.200	0.030	0.031	0.030

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
Ag (mg/L)	0.001	0.000	0.000	-	-	0.769	0.769
Sol.Ag (mg/L)	0.000	0.000	0.000	-	-	0.368	0.368
As (mg/L)	0.007	0.003	0.000	-	-	0.443	0.443
Sol.As (mg/L)	0.003	0.002	0.000	-	-	0.957	0.957
Ba (mg/L)	0.061	0.035	0.071	0.031	0.001	0.000	0.001
Sol.Ba (mg/L)	0.048	0.025	0.363	0.097	0.001	0.001	0.001
B (mg/L)	0.099	0.222	0.020	-	-	0.001	0.001
Sol.B (mg/L)	0.090	0.217	0.027	-	-	0.000	0.000
Cd (mg/L)	0.001	0.001	0.001	-	-	0.862	0.862
Sol.Cd (mg/L)	0.000	0.000	0.010	-	-	0.877	0.877
Cu (mg/L)	0.014	0.021	0.000	-	-	0.144	0.144
Sol.Cu (mg/L)	0.004	0.008	0.000	-	-	0.027	0.027
Cr (mg/L)	0.005	0.005	0.015	-	-	1.000	1.000
Sol.Cr (mg/L)	0.001	0.001	0.000	-	-	0.691	0.691
Cr <sup>+6</sup> (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	1.119	0.511	0.068	0.156	0.001	0.001	0.001
Sol.Fe (mg/L)	0.095	0.107	0.770	0.218	0.098	0.092	0.098
Pb (mg/L)	0.052	0.000	0.000	-	-	0.315	0.315
Sol.Pb (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Ni (mg/L)	0.004	0.003	0.001	-	-	0.532	0.532
Sol.Ni (mg/L)	0.002	0.003	0.001	-	-	0.578	0.578
Mn (mg/L)	0.124	0.051	0.037	-	-	0.000	0.000
Sol.Mn (mg/L)	0.041	0.021	0.000	-	-	0.521	0.521
Hg (µg/L)	0.005	0.009	0.000	-	-	1.000	1.000
Sol.Hg (µg/L)	0.000	-	-	-	-	-	-
Zn (mg/L)	0.027	0.038	0.387	0.338	0.080	0.048	0.080
Sol.Zn (mg/L)	0.002	0.020	0.002	-	-	0.000	0.000
Se (mg/L)	0.011	0.010	0.000	-	-	0.680	0.680
Sol.Se (mg/L)	0.000	0.000	-	-	-	1.000	1.000

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

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

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

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

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

- = No statistics or applicable test exists.

\*Geometric Mean

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
BOD <sub>5</sub> (mg/L)	-	-	-	-	-	-	-
CBOD <sub>5</sub> (mg/L)	-	-	-	-	-	-	-
DO (mg/L)	8.42	8.93	0.254	0.003	0.613	0.266	0.613
Temp (°C)	14.5	15.6	0.445	0.183	0.786	0.735	0.786
pH	7.65	7.72	0.387	0.479	0.667	0.709	0.667
Cl (mg/L)	479	221	0.000	-	-	0.018	0.018
Turb (NTU)	18.8	7.3	0.006	-	-	0.000	0.000
Alk (mg/L)	168	195	0.573	0.012	0.081	0.060	0.081
TKN (mg/L)	1.34	1.85	0.022	-	-	0.042	0.042
NH <sub>4</sub> -N (mg/L)	0.187	0.250	0.862	0.383	0.177	0.124	0.177
NH <sub>3</sub> -N (mg/L)	0.004	0.005	0.001	-	-	0.518	0.518
ORG-N (mg/L)	1.16	1.60	0.018	-	-	0.049	0.049
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.58	5.44	0.008	-	-	0.000	0.000
TS (mg/L)	1120	785	0.000	-	-	0.372	0.372
TSS (mg/L)	28.2	5.5	0.008	-	-	0.000	0.000
VSS (mg/L)	6.36	2.75	0.030	-	-	0.001	0.001
TDS (mg/L)	1092	780	0.000	-	-	0.559	0.559
Phenol (µg/L)	14.9	19.0	0.070	0.327	0.447	0.537	0.447
SO <sub>4</sub> (mg/L)	60.9	107.8	0.041	-	-	0.001	0.001
FOG (mg/L)	-	-	-	-	-	-	-
T.P (mg/L)	0.112	0.507	0.002	-	-	0.000	0.000
Sol.P (mg/L)	0.026	0.265	0.153	0.005	0.003	0.008	0.003
CN (mg/L)	0.003	0.007	0.587	0.356	0.001	0.002	0.001
WAD-CN (mg/L)	0.001	0.001	0.340	0.255	0.255	0.515	0.255
F (mg/L)	0.315	0.762	0.024	-	-	0.002	0.002
TOC (mg/L)	10.09	9.92	0.000	-	-	0.435	0.435
FC (#/100 ml)*	598	256	0.333	0.466	0.340	0.579	0.340
EC (#/100 ml)	5916	440	0.000	-	-	0.296	0.296
Ca (mg/L)	79.6	80.9	0.087	0.015	0.887	0.479	0.887
Sol.Ca (mg/L)	64.0	76.1	0.999	0.062	0.110	0.066	0.110
Mg (mg/L)	32.5	32.6	0.022	-	-	0.372	0.372
Sol.Mg (mg/L)	26.3	30.4	0.272	0.109	0.201	0.079	0.201
Hard (mg/L)	332	336	0.044	-	-	0.406	0.406
G.Alpha (pCi/L)	5.82	5.44	0.196	0.297	0.550	0.540	0.550
G.Beta (pCi/L)	7.32	15.72	0.245	0.045	0.000	0.000	0.000

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 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
Ag (mg/L)	0.001	0.001	0.000	-	-	0.880	0.880
Sol.Ag (mg/L)	0.001	0.001	0.000	-	-	0.962	0.962
As (mg/L)	0.004	0.002	0.000	-	-	0.528	0.528
Sol.As (mg/L)	0.004	0.002	0.000	-	-	0.288	0.288
Ba (mg/L)	0.072	0.032	0.010	-	-	0.000	0.000
Sol.Ba (mg/L)	0.056	0.024	0.164	0.030	0.000	0.000	0.000
B (mg/L)	0.116	0.377	0.005	-	-	0.001	0.001
Sol.B (mg/L)	0.103	0.384	0.007	-	-	0.000	0.000
Cd (mg/L)	0.001	0.001	0.001	-	-	1.000	1.000
Sol.Cd (mg/L)	0.000	0.000	0.001	-	-	0.800	0.800
Cu (mg/L)	0.017	0.015	0.420	0.042	0.692	0.460	0.692
Sol.Cu (mg/L)	0.003	0.005	0.512	0.207	0.070	0.068	0.070
Cr (mg/L)	0.001	0.004	0.000	-	-	0.036	0.036
Sol.Cr (mg/L)	0.000	0.001	0.000	-	-	0.607	0.607
Cr <sup>+6</sup> (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	1.127	0.334	0.005	-	-	0.001	0.001
Sol.Fe (mg/L)	0.098	0.108	0.982	0.456	0.363	0.255	0.363
Pb (mg/L)	0.000	0.002	0.000	-	-	0.384	0.384
Sol.Pb (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Ni (mg/L)	0.004	0.008	0.033	-	-	0.058	0.058
Sol.Ni (mg/L)	0.002	0.008	0.014	-	-	0.012	0.012
Mn (mg/L)	0.163	0.038	0.007	-	-	0.000	0.000
Sol.Mn (mg/L)	0.099	0.018	0.009	-	-	0.000	0.000
Hg (µg/L)	0.015	0.017	0.000	-	-	0.831	0.831
Sol.Hg (µg/L)	0.040	0.033	0.023	-	-	0.761	0.761
Zn (mg/L)	0.041	0.062	0.976	0.294	0.030	0.056	0.030
Sol.Zn (mg/L)	0.012	0.043	0.247	0.048	0.000	0.000	0.000
Se (mg/L)	0.008	0.007	0.000	-	-	0.733	0.733
Sol.Se (mg/L)	0.002	0.000	0.000	-	-	0.343	0.343

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

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

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

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

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

- = No statistics or applicable test exists.

\*Geometric Mean

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-6

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR HANOVER PARK WATER RECLAMATION PLANT IN 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
BOD <sub>5</sub> (mg/L)	-	-	-	-	-	-	-
CBOD <sub>5</sub> (mg/L)	-	-	-	-	-	-	-
DO (mg/L)	8.18	6.82	0.032	-	-	0.648	0.648
Temp (°C)	11.3	15.8	0.647	0.391	0.268	0.275	0.268
pH	7.43	7.42	0.203	0.534	0.968	0.855	0.968
Cl (mg/L)	283	171	0.009	-	-	0.060	0.060
Turb (NTU)	20.3	9.0	0.000	-	-	0.029	0.029
Alk (mg/L)	195	165	0.715	0.035	0.344	0.363	0.344
TKN (mg/L)	1.88	2.30	0.001	-	-	0.585	0.585
NH <sub>4</sub> -N (mg/L)	0.305	0.294	0.000	-	-	0.163	0.163
NH <sub>3</sub> -N (mg/L)	0.002	0.004	0.000	-	-	0.249	0.249
ORG-N (mg/L)	1.58	2.00	0.057	0.319	0.285	0.363	0.285
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.32	7.24	0.208	0.289	0.000	0.004	0.000
TS (mg/L)	888	645	0.038	-	-	0.045	0.045
TSS (mg/L)	30.3	18.8	0.000	-	-	0.201	0.201
VSS (mg/L)	4.00	4.75	0.000	-	-	0.622	0.622
TDS (mg/L)	858	626	0.040	-	-	0.034	0.034
Phenol (µg/L)	18.0	17.1	0.379	0.319	0.889	0.761	0.889
SO <sub>4</sub> (mg/L)	83.5	73.5	0.333	0.085	0.082	0.201	0.082
FOG (mg/L)	-	-	-	-	-	-	-
T.P (mg/L)	0.225	2.428	0.143	0.047	0.000	0.004	0.000
Sol.P (mg/L)	0.137	1.970	0.207	0.118	0.003	0.028	0.003
CN (mg/L)	0.004	0.010	0.398	0.214	0.006	0.012	0.006
WAD-CN (mg/L)	0.001	0.002	0.001	-	-	0.067	0.067
F (mg/L)	0.295	0.721	0.388	0.263	0.000	0.006	0.000
TOC (mg/L)	12.75	11.17	0.025	-	-	0.419	0.419
FC (#/100 ml)*	1075	1273	0.351	0.302	0.857	1.000	0.857
EC (#/100 ml)	2070	754	0.009	-	-	0.371	0.371
Ca (mg/L)	99.6	67.8	0.187	0.048	0.087	0.045	0.087
Sol.Ca (mg/L)	84.6	58.8	0.991	0.540	0.002	0.014	0.002
Mg (mg/L)	41.5	26.8	0.015	-	-	0.006	0.006
Sol.Mg (mg/L)	34.8	23.7	0.807	0.073	0.004	0.014	0.004
Hard (mg/L)	419	280	0.058	0.040	0.087	0.025	0.087
G.Alpha (pCi/L)	5.23	4.53	0.053	0.401	0.250	0.205	0.250
G.Beta (pCi/L)	7.02	9.50	0.018	-	-	0.076	0.076

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-6 (Continued)

SIGNIFICANCE PROBABILITIES OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR HANOVER PARK WATER RECLAMATION PLANT IN 2001

Parameter (Unit)	Mean (U)	Mean (D)	Normal Sig Prob <sup>1</sup>	Equal Variance Sig Prob <sup>2</sup>	t-test Sig Prob <sup>3</sup>	Wilcoxon Sig Prob <sup>4</sup>	Equal Means Sig Prob <sup>5</sup>
Ag (mg/L)	0.002	0.001	0.000	-	-	0.339	0.339
Sol.Ag (mg/L)	0.000	0.000	-	-	-	1.000	1.000
As (mg/L)	0.005	0.006	0.000	-	-	1.000	1.000
Sol.As (mg/L)	0.000	0.001	0.000	-	-	0.715	0.715
Ba (mg/L)	0.072	0.035	0.004	-	-	0.013	0.013
Sol.Ba (mg/L)	0.058	0.024	0.009	-	-	0.014	0.014
B (mg/L)	0.083	0.296	0.001	-	-	0.013	0.013
Sol.B (mg/L)	0.068	0.296	0.005	-	-	0.014	0.014
Cd (mg/L)	0.001	0.001	0.015	-	-	1.000	1.000
Sol.Cd (mg/L)	0.001	0.000	0.008	-	-	0.862	0.862
Cu (mg/L)	0.019	0.020	0.018	-	-	0.715	0.715
Sol.Cu (mg/L)	0.002	0.007	0.475	0.231	0.001	0.014	0.001
Cr (mg/L)	0.009	0.004	0.004	-	-	0.194	0.194
Sol.Cr (mg/L)	0.002	0.001	0.000	-	-	0.502	0.502
Cr <sup>+6</sup> (µg/L)	0.000	0.000	-	-	-	1.000	1.000
Fe (mg/L)	1.256	0.477	0.003	-	-	0.018	0.018
Sol.Fe (mg/L)	0.185	0.096	0.009	-	-	0.004	0.004
Pb (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Sol.Pb (mg/L)	0.000	0.000	-	-	-	1.000	1.000
Ni (mg/L)	0.004	0.002	0.000	-	-	0.737	0.737
Sol.Ni (mg/L)	0.001	0.001	0.000	-	-	1.000	1.000
Mn (mg/L)	0.151	0.074	0.002	-	-	0.060	0.060
Sol.Mn (mg/L)	0.093	0.046	0.000	-	-	0.052	0.052
Hg (µg/L)	0.000	0.009	0.000	-	-	0.461	0.461
Sol.Hg (µg/L)	-	0.025	1.000	-	-	-	-
Zn (mg/L)	0.041	0.061	0.000	-	-	0.203	0.203
Sol.Zn (mg/L)	0.014	0.032	0.024	-	-	0.014	0.014
Se (mg/L)	0.005	0.007	0.000	-	-	0.936	0.936
Sol.Se (mg/L)	0.000	0.002	0.000	-	-	0.715	0.715

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

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

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

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

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

- = No statistics or applicable test exists.

\*Geometric Mean