

Protecting Our Water Environment

BOARD OF COMMISSIONERS

Terrence J. O'Brien
President
Kathleen Therese Meany
Vice President
Gloria Aalto Majewski
Chairman of Finance
Frank Avila
Patricia Horton
Barbara J. McGowan
Cynthia M. Santos
Debra Shore
Patricia Young

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312-751-5600

Darlene A. LoCascio
Purchasing Agent

312-751-6600

October 30, 2007

Dear Bidder:

Enclosed herewith is "Notice of Revision and Addendum in Contract Documents," Addendum No. 1, consisting of one typewritten page. The addendum is dated October 30, 2007 and pertains to Request for Proposal 07-RFP-34, "Chicago Area Waterway System Habitat Evaluation and Improvement Study."

You are required to acknowledge receipt of this Notice by signing and returning this page to:

Metropolitan Water Reclamation District
of Greater Chicago
P.O. Box 10697
Chicago, Illinois 60610

Attention: Purchasing Department

This Notice must be signed, dated, inserted in the Contract Documents, and submitted with the Proposal, or the Bidder may identify the addendum number in the space provided on the proposal signature page.

Very truly yours,



Darlene A. LoCascio
Purchasing Agent

Attachments

Acknowledgment of receipt of the above-cited Notice:

DATE _____

FIRM _____

NAME _____

SIGNED _____

1 of 1
NOTICE OF REVISION AND ADDENDUM IN CONTRACT DOCUMENTS
ADDENDUM NO. 1

October 30, 2007

REQUEST FOR PROPOSAL 07-RFP-34
CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION AND IMPROVEMENT STUDY

All bidders are hereby notified of the following revisions:

1. Invitation to Bid - PAGE I-1

Insert Paragraph 2, which reads:

"A pre-proposal meeting will be held as follows:

Date: Friday, November 9, 2007

Time: 10:00 A.M.

Location: Auditorium
Stickney Water Reclamation Plant Laboratory
6001 W. Pershing Road
Stickney, IL 60650

This will be an informational meeting to clarify the bidders' questions pertaining to the Scope of Work, etc. Attendance at this meeting is not mandatory to submit a proposal."

The bidder shall sign this Notice in the space provided below and insert it in the Contract Documents when submitting the Proposal.

Louis Kollias

Louis Kollias
Director of Research and Development

Darlene A. LoCascio

Darlene A. LoCascio
Purchasing Agent

The bidder acknowledges that he has read this Notice of Revision dated October 30, 2007, to the Request for Proposal Documents and that he/she has taken the provisions thereof into consideration when preparing and submitting this Proposal.

FIRM NAME _____

BY _____

DATE _____

LK:KB:bk

Protecting Our Water Environment

BOARD OF COMMISSIONERS

Terrence J. O'Brien
President
Kathleen Therese Meany
Vice President
Gloria Alitto Majewski
Chairman of Finance
Frank Avila
Patricia Horton
Barbara J. McGowan
Cynthia M. Santos
Debra Shore
Patricia Young

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312-751-5600

Darlene A. LoCascio
Purchasing Agent

312-751-6600

November 6, 2007

Dear Bidder:

Enclosed herewith is "Notice of Revision and Addendum in Contract Documents," Addendum No. 2, consisting of one typewritten page. The addendum is dated November 6, 2007 and pertains to Request for Proposal 07-RFP-34, "Chicago Area Waterway System Habitat Evaluation and Improvement Study."

You are required to acknowledge receipt of this Notice by signing and returning this page to:

Metropolitan Water Reclamation District
of Greater Chicago
P.O. Box 10697
Chicago, Illinois 60610

Attention: Purchasing Department

This Notice must be signed, dated, inserted in the Contract Documents, and submitted with the Proposal, or the Bidder may identify the addendum number in the space provided on the proposal signature page.

Very truly yours,



Darlene A. LoCascio
Purchasing Agent

Attachments

Acknowledgment of receipt of the above-cited Notice:

DATE _____

FIRM _____

NAME _____

SIGNED _____

1 of 1
NOTICE OF REVISION AND ADDENDUM IN CONTRACT DOCUMENTS
ADDENDUM NO. 2

November 6, 2007

REQUEST FOR PROPOSAL 07-RFP-34
CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION
AND IMPROVEMENT STUDY

All bidders are hereby notified of the following revisions:

1. Invitation to Bid and RFP cover page: change the "Date Proposals Due" from November 16, 2007 to November 30, 2007

The bidder shall sign this Notice in the space provided below and insert it in the Contract Documents when submitting the Proposal.

Louis Kollias
Louis Kollias
Director of Research and Development

Darlene A. LoCascio
Darlene A. LoCascio
Purchasing Agent

The bidder acknowledges that he has read this Notice of Revision dated November 6, 2007, to the Request for Proposal Documents and that he/she has taken the provisions thereof into consideration when preparing and submitting this Proposal.

FIRM NAME _____

BY _____

DATE _____

LK:KB:bk

Terrence J. O'Brien
President
Kathleen Therese Meany
Vice President
Gloria Alitto Majewski
Chairman of Finance
Frank Avila
Patricia Horton
Barbara J. McGowan
Cynthia M. Santos
Debra Shore
Patricia Young

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312-751-5600

Darlene A. LoCascio
Purchasing Agent

November 20, 2007

312-751-6600

Dear Bidder:

Enclosed herewith is "Notice of Revision and Addendum in Contract Documents," Addendum No. 3, consisting of four (4) typewritten pages. The addendum is dated November 20, 2007 and pertains to Request for Proposal 07-RFP-34, "Chicago Area Waterway System Habitat Evaluation and Improvement Study."

You are required to acknowledge receipt of this Notice by signing and returning this page to:

Metropolitan Water Reclamation District
of Greater Chicago
P.O. Box 10697
Chicago, Illinois 60610

Attention: Purchasing Department

This Notice must be signed, dated, inserted in the Contract Documents, and submitted with the Proposal, or the Bidder may identify the addendum number in the space provided on the proposal signature page.

Very truly yours,



Darlene A. LoCascio
Purchasing Agent

Attachments

Acknowledgment of receipt of the above-cited Notice:

DATE _____

FIRM _____

NAME _____

SIGNED _____

1 of 1
NOTICE OF REVISION AND ADDENDUM IN CONTRACT DOCUMENTS
ADDENDUM NO. 3

November 20, 2007

REQUEST FOR PROPOSAL 07-RFP-34
CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION
AND IMPROVEMENT STUDY

All bidders are hereby notified of the following revisions:

1. Attached is a revised version of the "Scope of Work," which replaces the original version shown in the RFP contract documents.

The bidder shall sign this Notice in the space provided below and insert it in the Contract Documents when submitting the Proposal.

Louis Kollias
Louis Kollias
Director of Research and Development

Darlene A. LoCascio
Darlene A. LoCascio
Purchasing Agent

The bidder acknowledges that he has read this Notice of Revision dated November 20, 2007, to the Request for Proposal Documents and that he/she has taken the provisions thereof into consideration when preparing and submitting this Proposal.

FIRM NAME _____

BY _____

DATE _____

LK:KB:bk

ADDENDUM NO. 3 TO CONTRACT DOCUMENTS FOR

REQUEST FOR PROPOSAL 07-RFP-34 CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION AND IMPROVEMENT STUDY

ADDITIONAL INFORMATION CONCERNING THE SCOPE OF WORK PROVIDED AT
PRE-PROPOSAL MEETING, NOVEMBER 9, 2007 10:00 AM TO 12:00 PM
STICKNEY WATER RECLAMATION PLANT LABORATORY AUDITORIUM

Please address any questions regarding Affirmative Action Goals for this Request for Proposal to the Affirmative Action Section, telephone (312) 751-4038.

II SCOPE OF WORK

The following work items shall be included in the subject professional service contract along with any additional work items introduced by bidders that are deemed appropriate to the study by Metropolitan Water Reclamation District of Greater Chicago (District) personnel during interviews with the bidders. All work items must be complete by December 31, 2008.

1. Determine, for all waterways included in the Chicago Area Waterway System (CAWS) Use Attainability Analysis (UAA), current instream and riparian physical habitat metrics using existing data and data collected by the consultant. All waterways evaluated for the CAWS UAA are included in the Scope of Work. These waterways are:
 - a) North Shore Channel (NSC).
 - b) North Branch Chicago River from its confluence with the NSC to its confluence with the South Branch Chicago River.
 - c) Chicago River.
 - d) South Branch of the Chicago River and South Fork (Bubbly Creek).
 - e) Chicago Sanitary and Ship Canal.
 - f) Lake Calumet and its connecting channel to the Calumet River.
 - g) Calumet River from Lake Michigan to the Grand Calumet River.
 - h) Grand Calumet River from the Indiana state line to its confluence with the Calumet River.
 - i) Little Calumet River from its junction with the Grand Calumet River to the Calumet-Sag Channel.
 - j) Calumet-Sag Channel.

2. Employ a multimetric habitat index such as the Michigan Department of Environmental Quality "Non-Wadeable Habitat Index" (Wilhelm and Allan 2005), or approved equivalent, to evaluate CAWS physical habitat metrics. For example, the District has used the Qualitative Habitat Evaluation Index (QHEI), developed by the Ohio EPA. It is the contractor's responsibility to find or develop a valid index that will accurately characterize habitat in artificial and modified urban waterways like the CAWS.
3. Create a geographical information system (GIS) using all District and consultant-collected physical habitat data, sediment physical/chemical data, and biological survey data for the entire CAWS for the years 2001 to the present. The District has 59 Ambient Water Quality Monitoring (AWQM) Program sample locations on both wadeable and non-wadeable streams. Twenty-seven of these monitoring locations are on the CAWS UAA waterways listed in Item 1 of this scope of work. It would be desirable for future District use of the GIS for the consultant to include data for all 59 stations in the GIS.

The District will make available, at the consultant's request, any specific, or all, biological, chemical, sediment and habitat data collected from the 59 stations during the AWQM Program since 2001, as well as any specific, or all, hourly dissolved oxygen (DO), water temperature, specific conductance, pH, and turbidity data collected as part of the District's Continuous Dissolved Oxygen Monitoring (CDOM) Program. The AWQM Program data are stored in Microsoft EXCEL files and the CDOM Program data are stored in a Microsoft ACCESS database. Any data collected by the consultant during this habitat evaluation study will be incorporated into the GIS.

The consultant will provide the GIS and instructions on its use to the District upon completion of the contract. In regard to the GIS, the consultant will:

- a) Analyze existing data structure and if necessary convert it to a District approved usable format for incorporation to the GIS application.
- b) Develop required layers and databases that will be incorporated into the application using District Standard Database (Oracle 10G on Sun Solaris).
- c) Create UAA Map Documents (.MXD file) with existing base map layers along with existing and new data. The District will provide Base Map Data (orthophotos, planimetric, topo, and cadastral data) to the consultant.
- d) Develop ArcGIS Server (9.2 Advanced) web-based application for use on District's internal network that will allow required data entry, analysis, and modification.
- e) Provide general user training for 10 users and power user training for 5 users.
 - i) Power Users will be individuals that perform unique analysis as well as maintain the Map Document including the application specific layer and tables.

- ii) General Users are the everyday user that will be performing the day to day operations through Internet Explorer on the system.
 - iii) The training should be application specific. General GIS training is the responsibility of the District (e.g. ArcGIS 1 and ArcGIS 2). The consultants are only responsible for providing training for any application specific functionality that they develop.
 - f) Analyze District enterprise architecture (description of the architecture to be provided to the consultant by the District) and provide recommendations for implementation of public facing web application to disseminate study information to the public.
 - g) For all data associated with this project, the consultant shall develop Data Dictionary and Metadata, and Data Maintenance Procedures conforming to District standards.
 - i) Data Dictionary is a document that clearly states the relationship between all data tables in the application along with a detailed description of all fields.
 - ii) Metadata is part of each layer that describes the various attributes of the layer.
 - iii) Data Maintenance Procedures are procedures that clearly identify when and how each dataset shall be maintained to preserve the data integrity.
 - h) All custom source code developed for this project will become property of the District, and must be delivered to the District by the conclusion of the project. The District standard is Dot Net, and web application to be developed with Visual Basic (ASP).
 - i) No additional hardware or software needs to be provided to the District by the consultant under this contract.
 - j) Applications developed under this contract will run on thin clients for General Users and on PCs for Power Users.
 - k) All data developed for this project shall be in Oracle databases; however, some of the existing data currently resides in an MS Access database.
 - l) It is expected that the District's GIS will become functional during the duration of this contract.
4. Determine what modifications to current instream and riparian physical habitat would be required in the CAWS to achieve a sustainable fish community (all life stages) characteristic of a balanced, propagating fish community in a natural waterway of similar size and use. Include habitat requirements for non-fish biota (plankton, periphyton, and macroinvertebrates) that would function as prey species for the fish community. Prioritize areas of

the CAWS for restoration based on benefit:cost ratio. The cost estimates are planning level opinion of probable costs with a potential variation of +/- 30%. Restoration efforts shall be identified in an incremental manner proceeding from lowest to highest cost. Improvements in current water quality required to sustain improved biota shall be identified at each habitat improvement step.

5. Determine what other existing habitat improvement projects are planned or being implemented by other agencies, municipalities, or organizations, for those Chicago area waterways included in the UAA, and, if possible and appropriate, mesh these projects into any restoration recommendations of Item 4.
6. Determine what fish species would be expected to have self-sustaining populations in the CAWS after the recommended instream and riparian habitat improvement steps were implemented.
7. Examine the District's water quality monitoring data for the CAWS and determine whether, in the last six years, any of the measured parameters exceeded the tolerance limits of the fish species identified in Item 6. The District has monthly information on water quality within the CAWS. Hourly DO, temperature, and conductivity readings are available in selected reaches. IEPA 303d listed reaches in the CAWS were used to select monitoring locations for the District's AWQM Program. All reaches within the CAWS are listed as impaired by IEPA. It is expected that impacts of current and projected levels of pollutants responsible for IEPA 303d listing will be analyzed.
8. Provide the opinion of probable cost per unit of waterway distance for the habitat restoration work identified in Item 4. The cost estimates are planning level opinion of probable costs with a potential variation of +/- 30%.
9. Provide a report to the District summarizing:
 - a) current instream and riparian physical habitat conditions in the CAWS,
 - b) instream and riparian physical habitat conditions expected in the CAWS after each habitat restoration step suggested in Item 4 was completed,
 - c) fish species present in the CAWS after each restoration step is implemented,
 - d) based on assessment of current habitat, evaluation of changes in fish species or populations expected to occur as a result of achievement of proposed IEPA UAA standards,
 - e) any impacts that current or future IEPA-proposed water quality standards would have on the post-restoration fish population, and probable cost per unit of waterway distance for the proposed habitat restoration work,
 - f) the GIS which includes all map documents, layers and training provided for in this contract.

CONTRACT DOCUMENTS

FOR

REQUEST FOR PROPOSAL CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION AND IMPROVEMENT STUDY

07-RFP-34
(Requisition 1222697)

DATE OF ADVERTISEMENT: October 17, 2007
DATE PROPOSALS DUE: November 16, 2007



Metropolitan Water Reclamation District of Greater Chicago

ROOM 508, 100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154

2007

BOARD OF COMMISSIONERS

HON. TERRENCE J. O'BRIEN *PRESIDENT*
HON. KATHLEEN THERESE MEANY *VICE PRESIDENT*
HON. GLORIA ALITTO MAJEWSKI... *CHAIRMAN OF FINANCE*
HON. FRANK AVILA
HON. PATRICIA HORTON
HON. BARBARA J. McGOWAN
HON. CYNTHIA M. SANTOS
HON. DEBRA SHORE
HON. PATRICIA YOUNG

OFFICERS

RICHARD LANYON *GENERAL SUPERINTENDENT*
JOSEPH P. SOBANSKI *CHIEF ENGINEER*
OSOTH JAMJUN *CHIEF OF M&O*
JACQUELINE TORRES *DIRECTOR OF FINANCE / CLERK*
DARLENE A. LOCASCIO *PURCHASING AGENT*
HAROLD G. DOWNS *TREASURER*
LOUIS KOLLIAS *DIRECTOR OF R&D*
FREDERICK M. FELDMAN *ATTORNEY*
PATRICK J. FOLEY *DIRECTOR OF PERSONNEL*
KEITH D. SMITH.... *DIRECTOR OF INFORMATION TECHNOLOGY*

NOTICE

REQUEST FOR PROPOSAL TO THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO "CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION AND IMPROVEMENT STUDY"

07-RFP-34

The Metropolitan Water Reclamation District of Greater Chicago ("District") requests proposals from any prospective Consultant for the above-captioned service which is described in the Request for Proposal No. 07-RFP-34.

PROPOSALS ARE DUE NOVEMBER 16, 2007

Sealed proposals will be received until 11:00 A.M. (Chicago Time) on November 16, 2007 at the bid depository safe in the lobby of the District's Administration Building, 100 East Erie Street, Chicago, Illinois 60611. No proposals will be accepted after 11:00 A.M. on the above specified date. All proposals faxed, or otherwise electronically submitted to the District will be deemed nonresponsive, rejected, and returned to the Consultant. Proposals transmitted by U.S. mail or other delivery will be considered only when said proposals are in the bid depository safe at the time fixed for receiving said proposals. The District does not guarantee that proposals received by U.S. mail or other means will be deposited in the bid depository safe in time for the specified due date and time.

A total of five (5) copies of the Proposal must be submitted, one (1) original signature set and four (4) copies. Proposals received in a format, which is different from that described in this Request for Proposal, will not be accepted. One (1) original set of the Cost Proposal shall be submitted in a separate sealed envelope. Do not include the Cost Proposal in the five (5) copies.

All Proposals shall conform to all the terms and conditions of the Request for Proposals as stated in this document. **The Affirmative Action Goals for this Request for Proposal are 10%-15% Minority Business Enterprises (MBE) and/or Women Business Enterprises (WBE), and 10% Small Business Enterprises (SBE).** Failure to conform to the terms and conditions of the Request for Proposal will render the proposal nonresponsive and ineligible for further consideration.

Questions regarding this Request for Proposal may be addressed, in writing, to Ms. Darlene A. LoCascio, Purchasing Agent, 100 East Erie Street, Chicago, Illinois 60611; telephone (312) 751-6600. The last day to submit questions pertaining to this RFP is on the Friday prior to the proposal due date.

The estimated cost for the requested services is \$1,000,000. A bid deposit is not required to submit a proposal. *The anticipated service period is January 1, 2008 through December 31, 2008.*

Copies of the Request for Proposal may be obtained at the District's Purchasing Department, Room 508, 100 East Erie Street, Chicago, Illinois 60611 during normal business hours, 8:45 A.M. through 4:30 P.M., Monday through Friday. The Request for Proposal will be mailed in response to a fax request, (312) 751-3042. No fee is required for the Request for Proposal. The District assumes no responsibility for a Request for Proposal sent through the U.S. Mail. The Purchasing Department is closed on holidays.

The District reserves the right to accept any Proposals or any parts thereof or to reject any and all Proposals. A successful Consultant will be required to comply with all applicable Federal and State of Illinois Equal Opportunity Regulations as required.

The Metropolitan Water Reclamation District of Greater Chicago

By: Darlene A. LoCascio
Purchasing Agent

October 17, 2007

TABLE OF CONTENTS

<u>SECTION</u>	<u>TOPIC</u>	<u>PAGE</u>
I	INTRODUCTION	1
II	SCOPE OF WORK	1
III	VENDOR QUALIFICATIONS	3
IV	COST PROPOSAL	5
V	INSURANCE REQUIREMENTS	5
VI	PROVISIONS	5
VII	PROPOSAL DOCUMENT	6
VIII	EVALUATION AND SELECTION	8
IX	CHECKLIST	10
X	TERMS AND CONDITIONS	10
XI	ATTACHMENTS (A-F)	16

I. INTRODUCTION

The purpose of this RFP is to define the requirements of a healthy fish habitat in a healthy stream and provide a stepwise plan to create such habitat in the Chicago Waterway System (CWS).

The CWS is part of a large and diverse system of urban waterways referred to as the Chicago Area Waterway System (CAWS). These waterways were largely man-made for the primary purpose of protecting Lake Michigan water quality. For most of its existence, the CWS has served as a means to convey treated wastewater and stormwater flows away from the lake and as an avenue for commercial navigation. A detailed description of the CWS can be found in Attachment F.

The CWS has recently been the subject of a Use Attainability Analysis (UAA) conducted by a consultant under contract with Illinois Environmental Protection Agency (IEPA). Data collected for the UAA indicated that most of the CWS contains poor to very poor instream habitat for aquatic biota. Habitat in the CWS was characterized by silty substrates, poor quality substrate material, sparse instream cover for fish, channelization, and lack of channel sinuosity.

Some members of the UAA Stakeholder Advisory Committee have proposed that the CWS should support a balanced fish community representative of a "healthy" stream of comparable size. In view of the limited instream habitat currently available in the CWS, the District would like to determine what specific habitat improvements would be required to achieve a balanced aquatic community in the CWS and whether these improvements are technically and economically feasible. It is anticipated that implementation of these habitat improvements would be implemented in a stepwise fashion over a number of years.

II. SCOPE OF WORK

The following work items shall be included in the subject professional service contract along with any additional work items introduced by bidders that are deemed appropriate to the study by District personnel during interviews with the bidders. All work items must be complete by December 31, 2008.

1. Determine, for all waterways included in the CWS Use Attainability Analysis (UAA), current instream and riparian physical habitat metrics using existing data and data collected by the consultant.
2. Employ a multimetric habitat index such as the Michigan Department of Environmental Quality "Non-Wadeable Habitat Index" (Wilhelm and Allan 2005), or approved equivalent, to evaluate CWS physical habitat metrics.
3. Create a geographical information system (GIS) using all District and consultant-collected physical habitat data, sediment physical/chemical data, and biological survey data for the entire CAWS (59 monitoring locations) for the years 2001 to the present. Provide the GIS and instructions on its use to the District upon completion of the contract.

4. Determine what modifications to current instream and riparian physical habitat would be required in the CWS to achieve a sustainable fish community (all life stages) characteristic of a balanced, propagating fish community in a natural waterway of similar size and use. Include habitat requirements for non-fish biota (plankton, periphyton, and macroinvertebrates) that would function as prey species for the fish community. Prioritize areas of the CWS for remediation based on benefit: cost ratio. Remediation efforts shall be identified in an incremental manner proceeding from lowest to highest cost. Improvements in current water quality required to sustain improved biota shall be identified at each habitat improvement step.
5. Determine what other existing habitat improvement projects are planned or being implemented by other agencies, municipalities, or organizations, for those Chicago area waterways included in the UAA, and, if possible and appropriate, mesh these projects into any remediation recommendations of item 4.
6. Determine what fish species would be expected to have self-sustaining populations in the CWS after the recommended instream and riparian habitat improvement steps were implemented.
7. Examine the District's water quality monitoring data for the CWS and determine whether, in the last six years, any of the measured parameters exceeded the tolerance limits of the fish species identified in item 6.
8. Estimate the cost per unit of waterway distance for the habitat remediation work identified in item 4.
9. Provide a report to the District summarizing:
 - a. current instream and riparian physical habitat conditions in the CWS,
 - b. instream and riparian physical habitat conditions expected in the CWS after each habitat remediation step suggested in item 4 was completed,
 - c. fish species present in the CAWS after each remediation step is implemented,
 - d. based on assessment of current habitat, evaluation of changes in fish species or populations expected to occur as a result of achievement of proposed UAA standards,
 - e. any impacts that current or future IEPA-proposed water quality standards would have on the post-remediation fish population, and cost per unit of waterway distance for the proposed habitat remediation work,
 - f. The GIS system that was created for the project.

III. VENDOR QUALIFICATIONS

The Proposer must demonstrate that it has been in business for a minimum of four (4) years and has extensive professional experience in conducting physical habitat evaluation and river ecosystem remediation (design and engineering), and has designed GISs (ArcGIS or equivalent) for aquatic ecosystem data.

A. **DESCRIPTION OF COMPANY**

The Proposer shall describe his/her company on one 8 1/2" x 11" page. The following data are to be included:

1. Name of company; if a joint venture and names of individual companies comprising the joint venture;
2. Address of corporate headquarters and Chicago area location, if different;
3. Telephone and fax number(s) for Chicago area location(s);
4. Form of company; i.e., sole proprietor, partnership, corporation;
5. Date company formed; date incorporated if a corporation;
6. Company principals, including president, chairman, vice presidents, secretary, chief operating officer, chief financial officer, general manager(s);
7. All appropriate licenses to perform the services (provide a copy of all licenses and/or permits required to do business in the state of Illinois);
8. FEIN: Provide the Federal Employer Identification Number of the Proposer; and
9. SSN: In the case of a sole proprietorship or partnership, provide Social Security numbers for all owners/partners.

In the event that a corporation or LLC is the successful bidder, such corporation shall present evidence, before a contract is executed and purchase order issued, that it is authorized to do business in the state of Illinois which may include a print-out from the Illinois Secretary of State's website: As of July 2005, the website is www.cyberdriveillinois.com.

(NOTE: The Affidavit of Ownership (Attachment C) will be required for each Proposer. The Affidavit of Ownership incorporates much of the information listed above.)

In addition, the Proposer shall provide:

1. Organization Chart: An organization chart for the Proposer should be provided, showing reporting relationships of primary personnel and areas of responsibility as outlined in Section II, Scope of Work, and the rationale for assembling this specific consultant. Describe why this individual is best suited to perform the requested services.

2. Key Personnel: Submit resumes for key personnel committed to this project. Include a description of key personnel's specialized experience and expertise pertaining to the requested services.

B. **EXPERIENCE AND REFERENCES**

The Proposer shall provide a brief description of at least three recent river or stream habitat evaluation and remediation projects conducted for private entities or governmental agencies including agency contact-person name, phone number, and email address. The Proposer shall provide examples of GISs it has created for aquatic ecosystem data. The Proposer shall provide a description of the education and relevant work experience of all personnel directly responsible for the completion of the tasks outlined in the Scope of Work.

C. **FINANCIAL STATEMENTS**

If a publicly held firm, the Proposer must provide its firm's two (2) most current fiscal years of audited financial statements as compiled by independent certified public accountants. Internally audited financial statements will be accepted only from privately held firms. Proposers must also list any and all businesses that involved sales in which Proposer has a financial interest; the nature of the interest (sole proprietor, general partner, limited partner, shareholder, sales commission, etc.); and the proposing firm's percentage share of each business or transaction. Shares of corporations, in which the potential Proposer's holdings represent less than one percent of the outstanding shares and in which the potential Proposer has no management interest, need not be declared.

D. **LEGAL REQUIREMENTS**

Identify the legal structure of the Proposer (individual, corporation, partnership, or other legal entity). If a partnership, identify the legal structure of each of the partnerships.

List any final judgments that have been entered against the Proposer or any affiliated person or entity within the past five (5) years. If the Proposer (or any partner of the Proposer) is a corporation, the list must include any such judgments entered against any holder of more than five (5) percent of its issued and outstanding stock. If the Proposer is a partnership, the list must include any such judgment entered against any of its partners.

The following questions must be answered:

Has the Proposer, or any shareholder of the Proposer, ever had a bond canceled or forfeited (or, if the Proposer is a partnership, has any partner or any shareholder of any corporate affiliate of any partner ever had a bond canceled or forfeited)?

Yes _____ No _____

If yes, state the name of the bonding company, the date and amount of the bond, and the reason for the cancellation or forfeiture.

Has the Proposer, or any shareholder of the Proposer, ever been declared bankrupt (or, if the Proposer is a partnership, has any partner or any shareholder of any corporate affiliate of any partner ever been declared bankrupt)?

Yes _____ No _____

If yes, state the name of the bankrupt, the case number of the proceedings, and the court in which such proceedings were filed.

Identify any and all service agreements by the Proposer during the past five (5) years in which the owner has terminated or canceled prior to the expiration date, and state the reason for such a cancellation. Provide the names, addresses, and phone numbers of the owner in each such case.

Please note: Failure to provide the information, as required above, may render your proposal as non-responsive and may be cause for rejection of this proposal.

IV. COST PROPOSAL

The Consultant will provide the total cost for conducting the work specified in the Scope of Work from January 1, 2008 through December 31, 2008.

V. INSURANCE REQUIREMENTS

The Consultant, at his/her sole expense and prior to engaging upon the work agreed to be done, shall procure, maintain and keep in force during the entire term of the Agreement such required insurance. The specific type(s) and amount(s) of coverage of this Agreement are specified below. **The District, its Commissioners, officers, agents, and employees must be named as additional insured on the insurance certificate for general liability insurance.**

1. Workers' Compensation	Statutory
2. Employers' Liability	
a. Each accident	\$1,000,000.00
b. Each employee-disease	\$1,000,000.00
c. Policy aggregate-disease	\$1,000,000.00
3. Commercial General Liability	
a. Per occurrence	\$1,000,000.00
b. General aggregate	
c. General aggregate-Per project	\$1,000,000.00
d. Products/Completed Operations	
General aggregate	\$1,000,000.00
4. Business Auto Liability	\$1,000,000.00

NOTE: THE INSURANCE CERTIFICATE SHALL CLEARLY STATE THAT THE "METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO, ITS COMMISSIONERS, OFFICERS, AGENTS AND EMPLOYEES" ARE NAMED INSURED UNDER THE COMPREHENSIVE GENERAL LIABILITY INSURANCE.

The Contractor agrees to furnish Certificates of Insurance (Class E) evidencing the required coverage two weeks prior to the start of this contract and further agrees to cause its insurers to give the District thirty (30) calendar days notice prior to cancellation or material modification of any insurance policy.

VI. PROVISIONS

Any insurance or self-insurance maintained by the District, its officers, employees or volunteers shall not contribute to the Consultant's insurance.

The insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, cancelled, non-renewed or reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Law Department of the District.

Insurance is to be placed with insurers authorized to do business in the State of Illinois with Best's rating of no less than A:VII covering all operations under this contract. Exceptions to this clause are at the discretion of the District's Law Department.

The Consultant shall furnish the District with certificate(s) of insurance and with original endorsements affecting coverage required by this clause. The certificate(s) and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. Certificate(s) and endorsements are to be received and approved by the District's Law Department. The District reserves the right to require complete certified copies of all required insurance policies at any time.

The District shall have no responsibilities whatsoever to the Consultant with respect to any insurance coverage, its procurement or the absence thereof.

The Consultant expressly understands and agrees that any insurance protection furnished by the Consultant hereunder shall in no way limit its responsibility to indemnify and save harmless the District under the Provision of this Agreement.

The District maintains the right to modify, delete, alter or change these requirements. The insurer shall agree to waive all the rights of subrogation (workers' compensation, general liability) against the District, its officers, officials, employees and volunteers for losses arising from this Agreement.

VII. PROPOSAL DOCUMENT

Proposals will be received by the Purchasing Agent of the District, in accordance with the conditions set forth herein. The requirements for the Proposal Document are addressed in the following two parts:

1. Format and Preparation
2. Submission

Proposals must be organized according to the outline presented in this Request for Proposal. The response must include one (1) original signature set and four (4) copies. In addition, one (1) original set of the Cost Proposal documentation must be submitted in a separate envelope clearly marked.

Do not include the Cost Proposal in the five (5) copies.

Proposers are advised that proposals must be sufficiently well-ordered, detailed, comprehensive, and clear, so as to ensure a thorough evaluation. Each of the requirements of the proposal document is addressed below:

A. **FORMAT AND PREPARATION**

Proposers must follow the following format and preparation requirements to be considered responsive to this Request for Proposal.

1. **Format**

Each proposal shall be submitted in an 8 1/2" x 11" format with fold-outs used, as necessary. The cover shall clearly state the project title and the Proposer's name.

The Proposer may designate those portions of the proposal, which contain trade secrets or other proprietary data, which must remain confidential. If a Proposer includes data which is not to be disclosed to the public, or which is to be used only for evaluation purposes, the Proposer shall:

a. Mark the title page with the legend:

"This response includes data that shall not be disclosed outside the District and shall not be duplicated nor used, in whole or in part, for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this Proposer as a result of, or in connection with, the submission of this data, the District shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the District's right to use information contained in this data, if it is contained in another source without restriction. The data subject to this restriction are contained in pages (insert numbers or other identification)";

b. Mark each page of data the Proposer intends to restrict with the following legend: "Use or disclosure of data contained on this page is restricted."

2. **Preparation**

Each Proposer shall furnish the information required by this Request for Proposal. The Proposer shall include all the information identified in the Section titled **Terms and Conditions**.

Proposals for supplies or services other than those specified will not be considered unless authorized by the Request for Proposal. Each Proposer must state a definite time for performance of services unless otherwise specified in the Request for Proposal.

If Proposer is a Corporation, the president and secretary shall execute one (1) original signature set, and four (4) copies, of the proposal. The corporate seal shall be affixed to the one original signature set. In the event the proposal is executed by other than the president, a certified copy of that section of the corporate by-laws or other authorization by the corporation which permits the person to execute the offer for the corporation shall be attached to the proposal.

If Proposer is a partnership, all partners shall execute one (1) original signature set, and four (4) copies, of the proposal, unless one partner has been authorized to sign for the partnership, in which case, evidence of such authority must be submitted to the satisfaction of the Purchasing Agent.

If Proposer is a sole proprietor, Proposer shall execute one (1) original signature set, and four (4) copies, of the proposal.

A "Partnership" or "Sole Proprietor" operating under an Assumed Name must be registered with the Illinois county in which located, as provided in 805 ILCS 405/0.01 et seq.

A foreign L.L.C. must register with the Illinois Secretary of State's office pursuant requirements of the Limited Liability Company Act, 805 ILCS 180/1-35 and 805 ILCS 180/45-1 et seq. If the L.L.C. fails to register, this bidder may be deemed not responsible by the Purchasing Agent and their bid may be rejected.

B. SUBMISSION

Proposers must submit five (5) sealed proposals, including one (1) original signature set, in envelopes provided for that purpose, in the bid depository safe, as outlined in the advertisement page. In addition, provide one original set of the Cost Proposal (Attachment D) in a separate sealed envelope clearly marked.

Do not include the Cost Proposal in the five (5) copies.

If proposals are submitted in envelopes other than those provided for that purpose, then the sealed envelope submitted by the Proposer shall carry the following information on the face of the envelope:

1. Proposer's Name
2. Proposer's Address
3. Subject of Proposal
4. Advertised Date
5. Date and Hour designated for receipt of proposal, as shown in the advertisement.

When proposals are sent by mail to the Purchasing Agent, the Proposer shall be responsible for their delivery to the Purchasing Agent before the advertisement date and hour for the receipt of proposals. If the mail is delayed, proposals thus delayed will not be considered and will be returned unopened.

Response documents shall be prepared simply and economically, providing a straightforward concise delineation of capabilities proposed to satisfy the requirements of the Request for Proposal.

The following content is appended in Section XI (Attachments) and must be completed:

NONCOLLUSION AFFIDAVIT	(A)
CERTIFICATION AFFIDAVIT	(B)
AFFIDAVIT OF OWNERSHIP	(C)
COST PROPOSAL	(D)
MINORITY, SMALL AND WOMEN'S	
BUSINESS REQUIREMENTS	(E)

VIII. EVALUATION AND SELECTION

The District will review all proposals in accordance with the evaluation criteria. The District reserves the right to accept or reject any, some, or all proposals, to take exception to parts of proposals, and to request written clarification of proposals and supporting materials. The District further reserves the right to negotiate with any Proposer with respect to amendments to their proposal.

The Purchasing Agent may establish a common date and time for the submission of Best and Final Offers. Best and Final Offers shall be submitted only once; provided, however, the Purchasing Agent may make a written determination that it is in the District's best interest to conduct additional discussions or change the District's requirements and require another submission of Best and Final Offers. Otherwise, no discussion of or changes in the Best and Final Offers shall be allowed prior to award.

The District may award a contract, based upon initial proposals received without discussion of such proposals. Accordingly, each initial proposal should be submitted on the most favorable terms which the Proposer can submit to the District. The evaluation criteria and the selection process are discussed below:

A. Evaluation and Selection Criteria

Proposal review criteria will include the following items:

1. Understanding of the Project - Demonstration of the Consultant's understanding of the project to be completed.
2. Approach to the Work - A work plan and schedule of services reflecting a feasible approach to the delivery of the services within the time frame stated.
3. Cost of Services - Proposed services will be evaluated for cost efficiency.
4. Technical Competence - The composition of:
 - a. the professional qualifications and experience of the Consultant necessary for the satisfactory performance of the services as outlined in Section II, Scope of Work;
 - b. the specialized experience of the Consultant;
 - c. the past and present performance of the Consultant(s) as the prime consultant on other contracts in terms of quality of work and compliance with performance schedules.
5. Financial Stability: Demonstration of a good financial history and current condition as shown in an appropriate financial statement.
6. Compliance with Insurance Requirements - Stipulations contained in Section V, Insurance Requirements.
7. Team Effectiveness: Indication that the organization of the teams assembled by the Proposer will be able to mobilize quickly; function as a cohesive and effective team; and interface effectively with the District's organization.
8. Submission of all Necessary Licenses and Permits - Submittal of such documentation to perform business in the State of Illinois.

B. Evaluation and Selection Process

All proposals will be reviewed by an internal District Review and Evaluation Committee. The Review and Evaluation Committee will then rank order the proposals with a recommendation for selection. The rank-ordered list and recommendation will be forwarded to the Purchasing Agent. The Purchasing Agent will make a final recommendation to the General Superintendent and if the General Superintendent concurs, the recommendation will be forwarded to the District's Board of Commissioners for action.

IX. CHECKLIST

The following list of items must be included in order for a proposal to be considered responsive. Failure of the Proposer to include each item listed in the checklist will render the Proposal non-responsive and rejected.

1. Cover letter signed by the Consultant. The cover letter must contain a commitment to provide the services specified in the proposal. The letter shall indicate that the proposal is a firm offer for a period of at least one hundred and twenty (120) days or longer and that the Consultant will comply with terms of the Request for Proposal and acknowledges receipt of any addenda issued by the District.
2. Executive Summary (or Introduction) shall include the name of the Consultant and the location of the Consultant's principal place of business. The summary must also include a brief statement of understanding and the Consultant's approach to perform the consulting services.
3. Scope of Work shall, at a minimum, be provided in the form of a detailed narrative, including specific examples and support information of the proposed services to be rendered.
4. Insurance Requirements must be acknowledged and agreed to by the Consultant.
5. Noncollusion Affidavit (A) must be completed, executed, notarized and attested by the Consultant. Signatures must be original.
6. Certification Affidavit (B) must be completed, executed, notarized and attested by the Consultant. Signatures must be original.
7. Affidavit of Ownership (C) must be completed, executed, notarized and attested by the Consultant. Signatures must be original.
8. Cost Proposal (D) must be completed consistent with the information in this Request for Proposal. The Cost Proposal must be signed and have an original signature on it.
9. Minority, Small and Women's Business Requirements (E) must be adhered to and the information submitted according to the directions in this Request for Proposal. The Affirmative Action Goals are 10%-15% MBE and/or WBE and 10% SBE.

X. TERMS AND CONDITIONS

1. Examination by Consultant

The Consultant is expected to examine all parts of the Request for Proposal.

2. Competency of Consultant

No proposal will be accepted from or contract awarded to any person, firm or corporation that is in arrears or is in default with the District upon any debt of contract, or that is defaulter, as surety or otherwise, upon any obligation to said District, or has failed to perform faithfully on any previous contract with the District.

The Consultant, if requested, must present within a reasonable time, as determined by the Purchasing Agent, evidence satisfactory to the Purchasing Agent of ability to successfully perform on any contract awarded pursuant to this proposal and possession of necessary facilities, labor, material, equipment, supplies, expertise, financial resources and adequate insurance to comply with the terms of this Request for Proposal.

3. Incurring Cost

All costs incurred in the preparation and submission of responses to the Request for Proposal shall be borne by the Consultant.

4. Withdrawal of Proposals

Consultants may withdraw their proposals at any time prior to that specified in the advertisement, until the closing time for the receipt of proposals. However, no Consultant shall withdraw or cancel his/her proposal for a period of one hundred and twenty (120) calendar days after said advertised closing time for the receipt of proposals, nor shall the successful Consultant withdraw or cancel or modify his/her proposal, after having been notified by the Purchasing Agent that said proposal has been accepted by the District.

5. Incomplete Proposals

Consultants must address all requirements outlined in this Request for Proposal. Proposals submitted to the contrary will be considered incomplete, and as a result may be rejected.

6. Exceptions

Any deviations from the Request for Proposal must be noted on the proposal page or pages attached thereto, with the exact nature of the change outlined in sufficient detail. The reason for which deviations were made should also follow if not self-explanatory. Failure of a Consultant to comply with the terms of this paragraph may be cause for rejection.

The impact of exceptions to the specification will be evaluated by the District in determining its need.

7. Consideration of Proposals

The Purchasing Agent shall represent the District in all matters pertaining to this proposal. The Purchasing Agent reserves the right to reject any or all proposals and to disregard any informality in the proposals when, in the Purchasing Agent's opinion, the best interests of the District will be served by such action.

8. Request for Explanation and Information

General questions regarding the Proposal process should be addressed in writing to:

Ms. Darlene A. LoCascio
 Purchasing Agent
 Metropolitan Water Reclamation District
 of Greater Chicago
 100 East Erie Street
 Chicago, Illinois 60611

9. Addenda and Supplements to Specification

If it becomes necessary or appropriate to change or supplement any part of this Request for Proposal, an addendum will be issued to all recipients. Receipt by a Consultant of an addendum or supplement to this request must be acknowledged, signed and returned with the Request for Proposal package.

EACH PROPOSER MUST ACKNOWLEDGE RECEIPT OF A FULL SET OF CONTRACT DOCUMENTS AND ANY ADDENDA IN THEIR COVER LETTER.

10. Interpretation of Contract Document

If a Proposer who is contemplating submitting a proposal is in doubt to the true meaning of any part of this Request for Proposal or other contract documents, he/she may submit to the Purchasing Agent a written request for an interpretation hereof. The person submitting the request will be responsible for its prompt delivery. Any clarification or revision in the proposed documents will be made only by an addendum duly issued by the Purchasing Agent. A copy of such addendum will be mailed, delivered, or faxed to each person receiving a set of such Request for Proposal documents and to such other prospective Proposers as shall have requested that they be furnished with a copy of each addendum. Failure on the part of the prospective Proposer to receive written interpretation prior to the time of receipt of proposal will not be grounds for withdrawal for the proposal. Proposer will acknowledge receipt of each addendum issued in their cover letter. Oral explanations will not be binding.

11. Inadvertent Error

Inadvertent errors that have a correction submitted after the designated filing date may be considered, at the sole discretion of the Purchasing Agent, if the Consultant submits with the correction, sufficient information to prove the error was inadvertent. Amendments are not favored and, in the case of doubt, requests will be denied.

The District reserves the right, but not the obligation, to request additional information at any time from any or all Consultants based on the initial evaluation of proposals.

12. Submission of Proposals

All Proposers must submit five (5) sealed proposals, including one (1) original signature set, in envelopes provided by the District for that purpose in the bid depository safe as outlined in the advertisement page. In addition, the Proposer is required to submit one copy of the Cost Proposal in a separate sealed envelope clearly marked. If proposals are submitted in envelopes other than those so provided for that purpose then the sealed envelope submitted by the Proposer shall carry the following information on the face of the envelope:

- Proposer's Name
- Proposer's Address
- Subject of Proposal
- Advertised Date
- Date and Hour - designated for receipt of Proposal, as shown in the advertisement

When proposals are sent by mail to the Purchasing Agent, the Proposer shall be responsible for their delivery to the Purchasing Agent before the advertisement date and hour for the receipt of proposals. If the mail is delayed, proposals thus delayed will not be considered and will be returned unopened.

Response documents shall be prepared simply and economically, providing a straightforward concise delineation of capabilities proposed to satisfy the requirements of the Request for Proposal.

13. Additional Conditions to Proposal

Information provided with this Request for Proposal is confidential and is to be used only for the purposes of preparing a proposal. It is further expected that each Consultant will read this Request for Proposal with care. Failure to meet one or a combination of specified conditions may invalidate the proposal.

The quality of services available to the District will be considered in the final determination. Due consideration will be given to the total capability of the firm to professionally handle the District's needs.

14. Project Specifications

Unless otherwise provided in the contract document, the Consultant shall only prepare specifications as necessary for the work provided thereunder for incorporation with the contract document.

15. Acceptance of Proposal

A contract will be awarded to the responsive Consultant whose proposal, in conforming to the Request for Proposal, will be the most advantageous to the District, price and other factors considered.

The District may accept within the time specified therein, any proposal, whether or not there are negotiations subsequent to its receipt, unless the proposal is withdrawn by written notice received by the District prior to the response due date. If subsequent negotiations are conducted they shall not necessarily constitute a rejection or counterproposal on the part of the District.

16. Return of Responses

The District shall be under no obligation to return any responses or materials submitted by the Consultant as a result of the Request for Proposal.

17. Assignment

The Consultant shall not assign, sublet, or transfer all or any part of the interest of the Consultant in this Agreement without the prior written consent of the District.

18. Ownership of Documents

During the performance of work, all documents to be delivered to the District, including but not limited to, tracings, drawings, records maintained on magnetic media, estimates, specifications, field notes, investigations and studies, completed or partially completed, shall be the property of the District for use at its sole discretion, and the Consultant shall be liable to the District for any loss of or damage to any such documents due to the negligent acts, errors, or omissions of the Consultant while they are in the possession of, or while being worked upon, by the Proposer. The Consultant shall afford to the District full access, without care, to the work, and to the sites at which the work is being performed, covered by this Agreement.

19. Additional Work

The District believes that it has identified the major components to be examined in the scope of this project. Examination of these specified components is expected to lead into other related, but unidentified areas. Expansion of the project's scope beyond what is specified or necessarily implied in the Request for Proposal must receive prior approval by the Purchasing Agent and/or the Board of Commissioners.

20. Conflict of Laws

The parties agree that this contract, and any subsequent contract that is awarded pursuant hereto, is governed by, and construed in accordance with the laws of the State of Illinois in all respects, including matters of construction, validity and performance. The parties further agree that the proper venue to resolve any dispute which may arise out of this agreement is the appropriate Court of competent jurisdiction located in Cook County, Illinois.

In the event that any of the provisions of the Agreement conflict with any provisions set forth in the Request for Proposal, it is the intentions of the parties that the provisions of the Agreement shall control.

21. Termination for Convenience

The District may terminate this Contract, or any portion, at any time by notice in writing from the District to the Contractor. If the Contract is terminated by the District, the Contractor shall deliver to the District all finished or unfinished documents, data, studies and reports prepared by the Contractor under this contract, and these shall be and become the property of the District. Payment for the work performed before the effective date of such termination shall be based upon the value of the services/goods actually performed/supplied by the Contractor up to the date of termination. Such payment shall be in full settlement for services rendered under this Contract. In no event shall Contractor be entitled to anticipated profits.

22. Signature Requirements

The one (1) original signature set of the Proposal documents required must contain original signatures in writing and in ink. Photographic, facsimile and/or stamped signatures are not acceptable for the: Cover Letter, Non-Collusion Affidavit, Certification Affidavit, Affidavit of Ownership and the Cost Proposal signature page. Failure to comply will lead to the Proposal being declared non-responsive and rejected.

The above does not apply to the additional copies required.

23. Citizenship of Employees

Pursuant to Illinois Statute, no person shall be employed upon contracts for work to be done by the District unless he is a citizen of the United States or has in good faith declared his intention to become such a citizen. In all cases where an alien after filing his declaration of intention to become a citizen of the United States, shall for the space of three months after he could lawfully do so, fail to take out his final papers and obtain his citizenship such failure shall be prima facie evidence that his declaration of intention was not made in good faith. (70 ILCS 2605/11.15)

24. Confidentiality

Consultant shall treat material and information including but not limited to documents, drawings, plans, data, of any type received directly or indirectly from the District, its officers, agents and/or employees, or obtained as a result of, or in performance of, the Services, as confidential, except as specified herein. Material will be considered confidential unless disclosure (a) has been made public by the District, (b) has been authorized otherwise in writing by the Engineer, or (c) is required by Law, including, but not limited to the Freedom of Information Act, 5 ILCS 140/1, et seq.

XI. ATTACHMENTS

AFFIDAVITS AND COST PROPOSAL, ETC.

Note: The Cost Proposal (D) must be submitted in a separate envelope clearly marked.

Do not include the pricing information in the five (5) copies.

NONCOLLUSION AFFIDAVIT (A)

STATE OF _____)

COUNTY OF _____)

_____, being first duly sworn,
(Enter Name of Person Making Affidavit)

deposes and says that he/she is _____
(Enter "Sole Proprietor, "A Partner", President", or

_____ of _____
other proper title) (Enter Name of Firm)

_____, the Consultant submitting this proposal that such Proposal was not made in the interest of or on behalf of any undisclosed person, partnership, company collusive or sham, and that said Consultant has not been a party of any agreement or collusion among Consultants or prospective Consultants in restraint of freedom of competition by agreement to bid a fixed price, or otherwise, or to refrain from bidding and has not, directly or indirectly, by agreement, communication or conference with anyone attempted to induce action prejudicial to the interest of the Metropolitan Water Reclamation District of Greater Chicago or of any Consultant or anyone else interested in the proposed service contract.

(Signature of Person Making Affidavit)

SUBSCRIBED AND SWORN TO BEFORE ME

this _____ day of _____, 2007

Notary Public

CERTIFICATION AFFIDAVIT (B)

The Consultant agrees, within forty-eight (48) hours after being requested in writing by the Metropolitan Water Reclamation District ("District"), to furnish evidence satisfactory to the District of the Consultant's ability and responsibility, financial and otherwise, to furnish service specified herein in the manner and at the time prescribed.

The Consultant further understands and agrees that if this proposal is accepted, it is to furnish any or all of the terms upon which prices are quoted, at the price and delivery time stated, subject to all terms, conditions and requirements set forth in this Request for Proposal and in the resulting service contract.

Consultants are cautioned to verify their proposals before submission. Accordingly, the Consultant declares that he/she has carefully examined this Request for Proposal, its scope of service, plans, with walk-throughs and exhibits which are applicable (if any). The Consultant acknowledges that any services performed pursuant to this Request for Proposal must comply with all federal, state, and local laws, rules and regulations, as applicable. By making a proposal, the Consultant states that it understands the aforementioned documents and agrees to be bound by them.

Certified this _____ day of _____, 2007.

(Signature of Person Making Affidavit)

(Title)

SUBSCRIBED AND SWORN TO BEFORE ME

this _____ day of _____, 2007

Notary Public

STATE OF

COUNTY OF

A F F I D A V I T * (C)

_____, being first duly sworn on oath, deposes and says:
(Affiant)

1. That _____ is the _____ of
(He/She) (Title)
_____, and is duly authorized by said firm to
(Firm Name)
execute and deliver this affidavit to the Metropolitan Water Recla-
mation District of Greater Chicago for
_____.
District's RFP/REQ Number (or work description)

2. That said firm is a

(sole proprietorship) (partnership) (corporation) (association)
whose principal place of business is in
_____.
State (s)

3. That the names and addresses of the officers and directors of said
firm, and their respective titles, are:

4. That the names and addresses of the partners, owners or stockhold-
ers of said firm, and their respective interests, are (if twenty
or more partners, owners or stockbrokers, list only those holding
five percent (5%) or more interest):

5. That the name and address of the parent owner of said firm is (if none, state NONE and skip to #9):
6. That the names and addresses of partners, officers and directors of said parent owner, and their respective titles, are:
7. That the names and addresses of the owners and stockholders of said parent owner, are (if twenty or more partners, owners and stockholders, list only those holding five percent (5%) or more interest):
8. That the Affiant will advise the District of any changes or modifications to the information herein disclosed should such changes occur prior to or during the performance of the contracted services.
9. That this Affidavit is made in order to comply with the terms of the Resolution regarding consultants passed by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago, on November 8, 1973 and April 6, 1989.

(Affiant)

(Taxpayer ID Number/Soc. Sec. No.)

ATTEST:

Secretary (if corporation)

(Corporate Seal)

SUBSCRIBED AND SWORN TO BEFORE ME

this _____ **day of** _____, 2007

Notary Public

*Use additional sheet, if necessary

COST PROPOSAL (D)
07-RFP-34

The Proposer shall furnish labor, materials and expertise necessary to provide **all** services outlined in Section II, *Scope of Work*.

Lump sum price for services, not to exceed:

(Written in Words Amount)

_____ Dollars and _____ Cents

(\$ _____)
(In Figures Amount)

In the event there is a discrepancy in the above price between the "Written in Words" and "In Figures" amounts, the "Written in Words" shall govern.

COST PROPOSAL SIGNATURE

Print name of firm

Print name and title of authorized person of firm

Signature of authorized person of firm

Address of Firm

This page must be filled out. Failure to fill out this page will render your proposal non-responsive and rejected.

APPENDIX A – CONSULTANT CONTRACT

MINORITY, SMALL AND WOMEN’S BUSINESS REQUIREMENTS (E)

APPENDIX A - CONSULTANT CONTRACT

MINORITY, SMALL, WOMEN'S BUSINESS REQUIREMENTS

1. The Consultant will make positive efforts to satisfy the Minority (MBE), Small (SBE), and Women (WBE) Business Enterprise requirements set forth in the Affirmative Action policy of the Metropolitan Water Reclamation District of Greater Chicago (MWRD).

The goals for Consulting services are 10% - 15% MBE and / or WBE and 10% SBE which are applicable to proposals in excess of \$100,000.

2. The Consultant will undertake "**Good Faith Efforts**" to ensure that qualified Protected Class Enterprises are utilized in the performance of the contract and will provide maximum opportunities for MBE, SBE, WBE participation, notwithstanding the fact that the Consultant may have the capability to complete the project without the use of sub-consultants.
3. The Consultant shall submit to the MWRDGC information required by the Affirmative Action Administrator in the following format:

Type of Firm:	(Identify MBE, SBE, WBE Status)
Name of Firm:	
Address:	
Phone Number:	
Scope of Consulting Contract:	
Amount of Subcontract Agreement:	

4. In accordance with the District's Affirmative Action Ordinance, the Consultant shall make every effort to comply with the following requirements:

Where a contractor is a business owned and controlled by minority women ("M/WBE") or where the contractor utilizes a M/WBE in a joint venture or as a subcontractor, the contractor may count the M/WBE participation either toward the achievement of MBE or WBE goal, but not both. A contractor may count toward the achievement of its SBE goals the utilization of any MBE or WBE which also satisfies the definition of a SBE.

A "Small business enterprise" or "SBE" means any contractor who has received gross receipts of \$17 million or less, per year averaged over the preceding three business years. Size determinations shall include the PCE concern and all its domestic and foreign affiliates.

All minority, women and small businesses must conform to the definition of "Participating Businesses." A participating business means a business located within the counties of Cook, DuPage, Kane, Lake, McHenry or Will in the State of Illinois or Lake County in the State of Indiana which has the majority of its regular full-time work force located in this region and/or a business which has been placed on the District's vendor list and/or has bid on or sought District construction work.

AEC:hwc

ASSIST AGENCIES
EXHIBIT D

Mr. Zirl Smith
Abraham Lincoln Centre
3858 South Cottage Grove Avenue
Chicago, Illinois 60653
773-285-1390 Ext. 12 Fax: 773-373-6602

Mr. Omar Shareef
African American Contractors Association
3901 South State Street, Suite 103
Chicago, Illinois 60609
312-915-5960 Fax: 312-567-9919

Mr. John S. Lee
Asian American Small Business Association
of Chicago
5023 North Cicero Avenue, Suite 205
Chicago, Illinois 60640
773-545-0600

Perry Nakachi
Association of Asian Construction
Enterprises
333 North Ogden Avenue
Chicago, Illinois 60607
312-563-0746 Fax: 312-666-1785

Mr. Edward McKinnie, President
Black Contractors United
400 West 76th Street, Suite 200
Chicago, Illinois 60620
773-483-4000 Fax: 773-483-4150

Ms. Rachel Miller, Director of Marketing
Builders Association of Chicago, Inc.
9550 West Higgins Road, Suite 380
Rosemont, Illinois 60018-3225
847-318-8585 Fax: 847-318-8586

Ms. Rosa Vasquez
Cermak Road Chamber of Commerce
2000 West Cermak Road 2nd Floor
Chicago, Illinois 60608
Fax: 773-843-9739

Ms. Victoria Leonard, President
Chicago Business Women Coalition
329 West 18th Street, Suite 309
Chicago, Illinois 60616
312-666-6936 Fax: 312-421-8317

Tracy E. Miles, President
Chicago Minority Business Development
Council, Inc.
1 East Wacker Drive, Suite 1200
Chicago, Illinois 60601
312-755-8880 Fax: 312-755-8890

Ms. Cynthia Hubbard, Administrative
Assistant
Chicago Urban League
4510 South Michigan Avenue
Chicago, Illinois 60653
773-285-5800 Fax: 773-285-7772

Mr. Carl Latimer, President
Coalition for United Community Action
2100 South Indiana Avenue, Suite 218
Chicago, Illinois 60616
312-225-2085 Fax: 312-225-6742

Rev. John Hatchett
Coalition for United Labor Force
1253 West 63rd Street
Chicago, Illinois 60636
773-863-0283 Fax: 773-863-1162

ASSIST AGENCIES
EXHIBIT D

Ms. Rena Burke
Construction Employers Association
3525 West Peterson Avenue, Suite 208
Chicago, Illinois 60659-3314
312-658-0589

Ms. Carnice Carey
Interim Executive Director
Cosmopolitan Chamber of Commerce
203 North Wabash Avenue, Suite 608
Chicago, Illinois 60605
312-786-0212 Fax: 312-332-2688

Demicco Youth Service, Inc.
825 North Hudson
Chicago, Illinois 60610
773-373-6600 Fax: 773-373-6627

Ms. Beth Doria, Executive Director
Federation of Women Contractors
5650 South Archer Avenue
175 West Jackson Boulevard, Suite 625
Chicago, Illinois 60638
312-360-1122 Fax: 312-360-0239

Mr. Cesar Santoy, Executive Director
Hispanic American Construction Industry
Association (HACIA)
901 West Jackson Street, Suite 205
Chicago, Illinois 60607
312-666-5910 Fax: 312-666-5692

Mr. John McIntyre
Homer Township
14350 West 151st Street
Lockport, Illinois 60441
708-301-0697 Fax: 708-301-7043

Mr. Lusero Trevino
Illinois Department of Commerce and
Economic Opportunity
100 West Randolph Street – Suite 3-400
Chicago, Illinois 60601
312-814-8536 Fax: 312-814-5247

Ms. Joyce Shanahan, Executive Director
Industrial Council of N.W. Chicago
2010 West Fulton Street, Suite 280
Chicago, Illinois 60612
312-421-3941 Fax: 312-421-1871

Mr. Antonio R. Guillen, Director
Latin American Chamber of Commerce
3512 West Fullerton Avenue
Chicago, Illinois 60647
773-252-5211 Fax: 773-252-7065

Ms. Martha DeLavega, Executive Director
Little Village 26th Street Area Chamber of
Commerce
3610 West. 26th street –2nd Floor
Chicago, Illinois 60623
773-521-5387 Fax: 773-521-5252

Juan Ochoa, President
Mexican American Chamber of Commerce
of Illinois, Inc. d.b.a. Illinois Hispanic
Chamber of Commerce
33 North LaSalle Street, Suite 1720
Chicago, Illinois 60602
312-425-9500 Fax: 312-425-9510

Samuel E. Johnson, Jr., President
Midwest Community Council
301 North Kedzie Avenue
Chicago, Illinois 60612
773-826-2244 Fax: 773-826-2299

ASSIST AGENCIES
EXHIBIT D

Ms. Michelle King, President
National Association of Women
Business Owners
330 South Wells, Suite 1110
Chicago, Illinois 60606
312-322-0990 Fax: 312-461-0238

Ms. Judith A. Roussel
U.S. Small Business Administration
500 West Madison Street, Suite 1250
Chicago, Illinois 60661
312-353-4528 Fax: 312-886-5688

Ms. Donna Gaines, Director
International Trade Bureau
Rainbow PUSH Coalition
930 East 50th Street
Chicago, Illinois 60615
773-373-3366 ext. 296 Fax: 773-373-3571

Ms. Debbie Lyall
Women's Business Development Center
8 South Michigan Avenue, Suite 400
Chicago, Illinois 60623
312-853-3477 ext. 18 Fax: 312-853-0145

Mr. Dexter Watson
Southwest Humboldt Park Community
Service Center
857 North Trumbull
Chicago, Illinois 60651
312-265-6441 Fax: 773-265-7630

Ms. Christa Hinton
Women's Business Yellow Pages
Chicago, Illinois 60610
312-988-9660 Fax: 888-494-5265

Attachment F

Description of the Chicago Waterway System

Use Attainability Analysis Study

By

Richard Lanyon

August 2004

DESCRIPTION
OF THE
CHICAGO WATERWAY SYSTEM

USE ATTAINABILITY ANALYSIS
STUDY

CONDUCTED BY THE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF WATER

IN COOPERATION WITH THE
METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

Research and Development Department
Richard Lanyon, Director

December 2004

TABLE OF CONTENTS

	<u>Page</u>
Chicago Waterway System Report	1
System Description	1
Chicago River System	1
Calumet River System	2
Tributaries to the CWS	2
Control and Management of Flow	2
Inflow and Outflow	3
Outflow	3
WRP Effluent	3
Discretionary Diversion	3
Navigation and Leakage	4
Tributaries	4
Storm Runoff	4
Combined Sewer Overflow	4
Physical Description of Waterways	5
CSC	5
Chicago River	5
CSSC	5

Table of Contents
(Cont'd)

	<u>Page</u>
LCR	5
North Branch	5
North Branch Canal	6
NSC	6
South Branch	6
South Fork	6
Use Classification	6
General Use Waters	6
Secondary Contact Waters	6
Facility Descriptions	6
CRCW	6
LCW	7
LP&L	7
OL&D	7
WPS	8
Operation Plan	8
Dry Weather Conditions	8
Wet-Weather Conditions	8
Measurement of Discharge and Water Level	9
United States Geological Survey	9

Table of Contents
(Cont'd)

	<u>Page</u>
MWRDGC	9
Monitoring of Water Quality	10
IEPA	10
MWRDGC	10
USEPA	10
Acronym List	10
Figure 1	11
CWS Listing of Facilities Inflows and Monitoring Locations	12

CHICAGO WATERWAY SYSTEM

The Chicago Waterway System (CWS) consists of 78 miles of canals, which serve the Chicago area for two principal purposes, the drainage of urban storm water runoff and treated municipal wastewater effluent and the support of commercial navigation. Other purposes include recreational boating, fishing, streamside recreation and, where possible, aquatic habitat for wildlife. Approximately 75 percent of the length are man-made canals where no waterway existed previously and the remainder are natural streams that have been deepened, straightened and/or widened to such an extent that reversion to the natural state is not possible. The flow of water in the CWS is artificially controlled by hydraulic structures. See Figure 1.

1.0 System Description

The Lockport Controlling Works is one of two outlet control structures for the CWS. All flow from the CWS 740 square mile watershed discharges from the Chicago Sanitary and Ship Canal (CSSC) to the Des Plaines River north of the City of Joliet. The confluence is 1.1 miles downstream of the Lockport Powerhouse and Lock (LP&L). This reach is the upper end of the Brandon Road navigation pool. The LP&L is the single outlet control for the CWS. It should be noted that on Figure 1, distances on the CWS are measured from the LP&L. The CWS has two river systems, the Calumet River system and the Chicago River system.

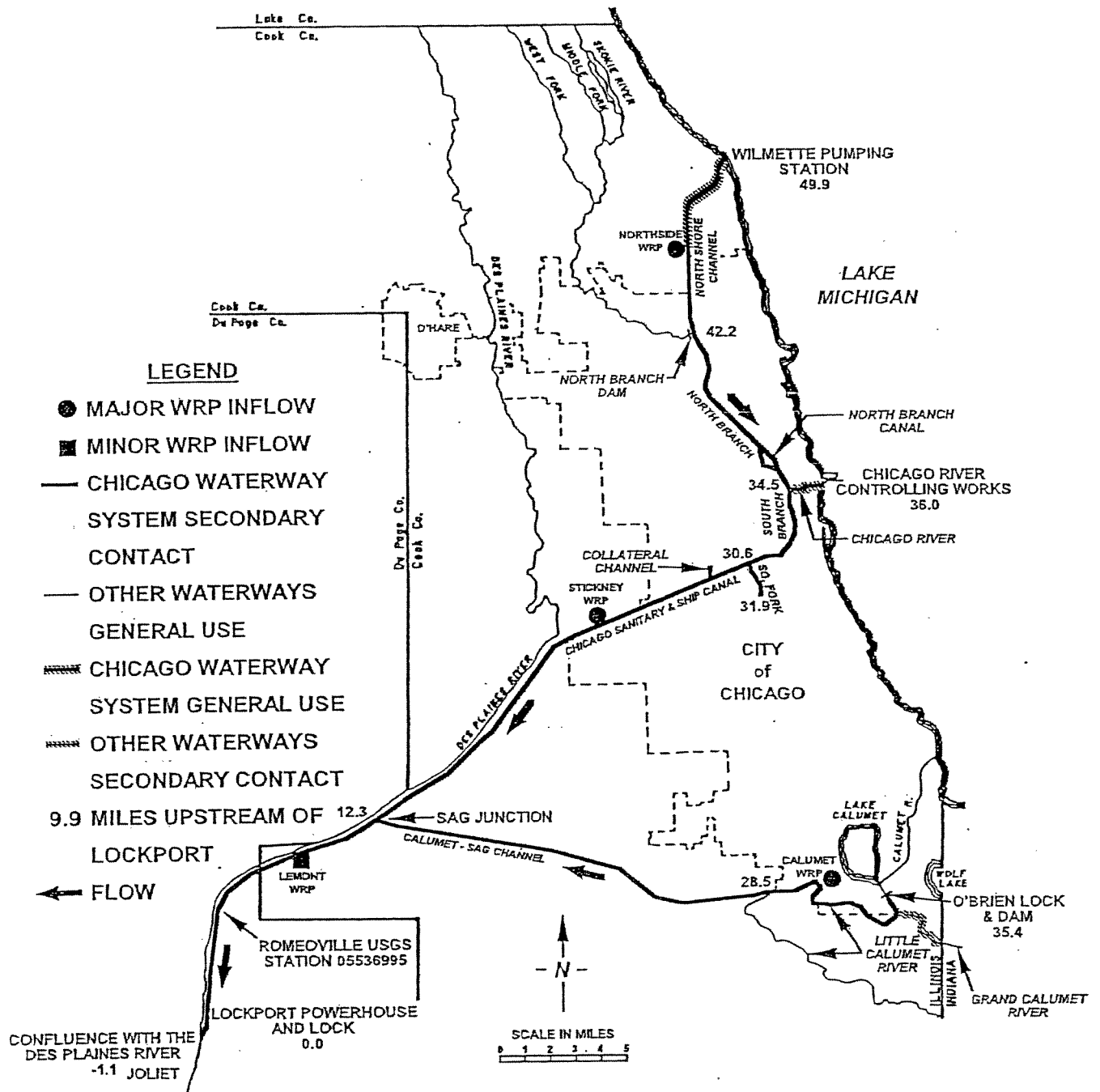
The Calumet River system is 23.1 miles in length and includes the Calumet-Sag Channel (CSC) and the Little Calumet River (LCR) (also called LCR North). The Chicago River system consists of 55.1 miles of waterways and includes the Chicago River, CSSC, North Branch, North Branch Canal (NBC), North Shore Channel (NSC), South Branch and South Fork. The South Fork is commonly known as Bubbly Creek. Each river system will be described separately.

1.1 Chicago River System

The CSSC extends upstream from the confluence with the Des Plaines River for a distance of 31.1 miles to South Damen Avenue in the City of Chicago (Chicago). The waterway then becomes the South Branch, extending upstream for 4.5 miles to the junction of the Chicago River and the North Branch. The South Fork flows into the South Branch and extends upstream for 1.3 miles, ending at 38th Street in Chicago. The Chicago River extends upstream from the junction of the North and South Branches for 1.5 miles and ends at the Chicago River Controlling Works (CRCW). The North Branch extends upstream from the junction of the Chicago River and South Branch for 7.7 miles to the North Branch Dam, located south of Foster Street in Chicago. The NBC is an alternate route around Goose Island between Chicago and North Avenues and is 1.0 miles long. At the North Branch Dam, the waterway becomes the NSC, extending upstream for 7.7 miles, ending at the Wilmette Pumping Station (WPS).

FIGURE 1

CHICAGO WATERWAY SYSTEM



4/10/03

1.2 Calumet River System

The CSC extends upstream from Sag Junction for 16.2 miles to the LCR. At this point, the waterway becomes the LCR and extends upstream 6.9 miles, ending at the O'Brien Lock and Dam (OL&D). It should be noted that the Calumet River extends upstream of the OL&D to Lake Michigan. However, since the Calumet River is directly connected to Lake Michigan, it is not considered part of the CWS. The water level and flow in the Calumet River cannot be controlled the way that the CWS is controlled.

1.3 Tributaries to the CWS

There are several streams that contribute flow to the CWS. These include the Grand Calumet River, LCR above its confluence with the CWS (also called LCR South), the North Branch above the North Branch Dam and numerous small watersheds along the CSC and CSSC. In addition, there are numerous small directly contributing areas along the CWS, including areas served by storm sewers, parking lots, street ends, rooftop drains, etc.

2.0 Control and Management of Flow

Flow in the CWS is managed by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), but is subject to regulation under U.S. Supreme Court Decree and 33 CFR Parts 207.420 and 207.425. The CFR provides for the maintenance of navigable depths to support commercial navigation. The Chicago River at the CRCW and the LCR at the OL&D must be maintained between -0.5 feet Chicago City Datum (CCD) and -2.0 feet CCD water levels per Code of Federal Regulations during normal conditions." This allows the federal navigation project depths to be maintained throughout the CWS above the LP&L.

The U.S. Supreme Court Decree governs the quantity of water from Lake Michigan that is diverted out of the Great Lakes Basin into the Mississippi River Basin by the State of Illinois (Illinois). Within Illinois, this quantity is subject to regulation by the Illinois Department of Natural Resources, Division of Water Resources (DWR). The DWR issues allocation orders for annual average quantities of diversion. Most of the diversion is allocated to municipalities for domestic consumption. The MWRDGC has an order that allows it to divert water for improvement of water quality and this is referred to as discretionary diversion. Currently and through 2014, the MWRDGC allocation is for an annual average of 270 cubic feet per second (cfs). In 2015, it is scheduled to be reduced to an annual average of 101 cfs.

An additional annual average of 35 cfs is allocated to the MWRDGC for navigation makeup. This is necessary to restore the CWS to the required water level for navigation following a system draw down for wet-weather operations.

There are two other diversion categories which do not have a specific allocation, but for which the DWR maintains a reserve quantity. An approximate annual average of 100 cfs is the reserve needed for operation of the locks at CRCW and OL&D for passage of navigation traffic.

Another approximate annual average of 50 cfs is reserved for leakage through the walls and structures separating the lake and river. The actual amount of each of these reserves varies with the level of Lake Michigan.

Accounting for the amount of water diverted from Lake Michigan is the responsibility of the DWR and the U.S. Army Corps of Engineers (USACE), Chicago District. The measurement of quantities of diversion and the method of accounting are specified in the U.S. Supreme Court Decree and in a 1996 Memo of Understanding between the U.S. Department of Justice and the several states bordering the Great Lakes.

3.0 Inflow and Outflow

All outflow exits the CWS at the LP&L and Lockport Controlling Works (LCW). However, there are several sources of inflow to the CWS. These include WRP effluent, discretionary diversion, navigation and leakage, tributaries, storm runoff and combined sewer overflows.

3.1 Outflow

The average annual flow leaving the CWS in Water Year (WY) 2001 was 2,710 cfs as measured by the U.S. Geological Survey (USGS) at Romeoville Road. Maximum and minimum daily discharge during WY 2001 was 13,700 and 1,200 cfs, respectively. Since 1986, the maximum and minimum WY annual average discharges have been 4,110 and 2,560 cfs, respectively. The maximum instantaneous discharge was 19,500 cfs on February 21, 1997. There are periods of zero and negative discharge due to operations at the LP&L and the hydraulic peculiarities of the CWS.

3.2 WRP Effluent

Over 70 percent of the annual flow in the system is from the discharge of treated municipal wastewater effluent from the Calumet, Lemont, North Side and Stickney Water Reclamation Plants (WRPs) owned and operated by the MWRDGC. The WRPs are also shown on Figure 1. These WRPs have the following flow characteristics in cfs:

WRP	Average annual flow in 2001	Design average flow	Design maximum flow
Calumet	417.	545.	662.
Lemont	3.4	3.5	6.2
North Side	431.	518.	693.
Stickney	1,200.	1,850.	2220.

3.3 Discretionary Diversion

Discretionary diversion is introduced into the system from Lake Michigan to maintain adequate water quality. This occurs at three locations, WPS, CRCW and OL&D, shown on Figure 1.

Discretionary diversion is seasonal and is scheduled such that most flow is during warm weather months of June through October. Some flow is scheduled throughout the year for the NSC due to more sensitive water quality conditions. Discretionary diversion flows in cfs for calendar year 2001 were as follows:

Inflow facility	Average annual	Monthly maximum and minimum
WPS	21.7	40.2, 0.2
CRCW	133.	479, 0
OL&D	87.5	364, 0

3.4 Navigation and Leakage

This flow consists of discharge to support navigation in the operation of locks and leakage through structures and walls separating the lake and river. There is no navigation traffic at the WPS. It should be noted that navigation flows are seasonal. In addition, the quantity is dependent on the lake level, since flow at CRCW and OL&D is by gravity only. Leakage, formerly a significant quantity at CRCW, has been reduced through repair of gates and construction of new walls. The average annual, monthly maximum and monthly minimum flows at each of these facilities in cfs for calendar year 2001 were as follows:

Facility	Navigation	Lockage	Leakage
WPS	0, 0, 0	0, 0, 0	0, 0, 0
CRCW	20.5, 81.7, 0	10.1, 26.3, 0.1	12.1, 18.8, 9.1
OL&D	29.1, 113., 0	17.4, 36.3, 2.5	6.8, 10.1, 4.4

The average annual discharge for WY 2001 measured by the USGS downstream from the three intake facilities CRCW, OL&D and WPS is 312, 217 and 80 cfs, respectively.

3.5 Tributaries

The major watersheds tributary to the CWS are the LCR, over 210 square miles, and the North Branch, 113 square miles. Other tributaries discharging into the CSC include Crooked Creek, East Stony Creek, Illinois and Michigan Canal, Midlothian Creek, Mill Creek, Navajo Creek, Saganashkee Slough, Tinley Creek and West Stony Creek. Tributaries discharging into the CSSC include the Illinois and Michigan Canal diversion ditches and Summit-Lyons Conduit. Please refer to the CWS Listing of Facilities, Inflows and Monitoring Locations (CWS List).

3.6 Storm Runoff

Numerous storm sewers discharge to the CWS from several municipalities and Illinois Department of Transportation drainage facilities. A complete inventory of these facilities is not available.

3.7 Combined Sewer Overflow

Several hundred CSOs discharge to the CWS from several municipalities and the MWRDGC. The MWRDGC has a comprehensive CSO outfall inventory.

4.0 Physical Description of Waterways

4.1 CSC

A man-made channel, the CSC is 16.2 miles long with a generally trapezoidal shape, 225 feet wide and approximately 10 feet deep. In some sections, the north bank is a vertical wall. The alignment is generally straight with three bends near Crawford, Ridgeland and Western Avenues.

4.2 Chicago River

The Chicago River, 1.5 miles in length, is 200 feet wide west of Michigan Avenue and wider, up to 400 feet wide, east thereof. It has vertical side walls throughout its length. It is 20 feet deep at the west end and 26 feet deep at the east end. The river alignment is generally straight with three bends near Michigan Avenue and Orleans and State Streets.

4.3 CSSC

This 31.1 mile long man-made channel has many different shapes and sizes. Its alignment is straight throughout its length, except for four bends, near Harlem Avenue, LaGrange and Romeoville Roads and in Lockport. Downstream of the LP&L, a reach of 1.1 miles, the depth is 10 feet and the width is 200 feet. Upstream of the LP&L, the depth varies from 20 to 27 feet. The reach immediately upstream of the LP&L, 2.4 miles in length, varies in width from 160 to 300 feet. The east bank of this reach is a vertical concrete wall. The west bank varies from vertical dock wall to a steep rockfill embankment. The next 14.6 miles of the CSSC have vertical concrete or rock walls 160 feet apart. The last 13.0 miles have a trapezoidal shape, 220 feet wide, with steep earth or rock side slopes. There are several areas with vertical dock walls in this last reach.

4.4 LCR

The LCR, 6.9 miles in length, has been deepened and widened from its original natural condition. There are several changes in alignment, with one full 180-degree bend west of Indiana Avenue. Its width varies from 250 to 350 feet and its depth is generally 12 feet in the center part of the channel. It has few vertical dock walls and most of the banks are earthen side slopes.

4.5 North Branch

From the junction of the Chicago River and South Branch to Belmont Avenue, a distance of 5.1 miles, the river follows its original course, has several bends and has been deepened and widened. The width varies from 150 to 300 feet and the depth varies from 10 to 15 feet. In several reaches, vertical dock walls have been constructed and are in various states of disrepair. From Belmont Avenue to the North Branch Dam, 2.6 miles, the channel has been either straightened or relocated into fairly straight segments with steep earthen side slopes. The width is generally 90 feet and the depth is approximately 10 feet in the center part of the channel.

4.6 North Branch Canal

This canal was man-made in the 1870s. It forms the east side of Goose Island, has a straight alignment and is one mile in length. The width varies from 80 to 120 feet and the depth from 4 to 8 feet.

4.7 NSC

This man-made channel is 7.7 miles in length and is straight throughout except for four bends in alignment near Devon and Central Avenues and Emerson and Linden Streets. It has steep earthen side slopes and a width of 90 feet. The depth varies from 5 to 10 feet.

4.8 South Branch

This 4.5 mile long segment generally follows its original course and has several bends. A short relocated reach between Roosevelt Road and 18th Street was relocated in 1928 to eliminate a major bend. It has vertical dock walls throughout most of its length. The width varies from 200 to 250 feet and the depth from 15 to 20 feet.

4.9 South Fork

This segment is 1.3 miles in length, varies from 100 to 200 feet in width and from 3 to 13 feet in depth. There are several sections with vertical dock wall, but most of the banks are steeply sloped earth or rock materials.

5.0 Use Classification

5.1 General Use Waters

This use classification has been designated by the IPCB for the 1.6 mile length of the Chicago River and the 4.0 mile reach of the North Shore Channel from the North Side WRP outfall to the

WPS. The General Use standards are found at 35 IAC Section 302.200 and are established to protect aquatic life, wildlife, body-contact recreation (swimming), water supply and Secondary Contact uses.

5.2 Secondary Contact Waters

All other portions of the CWS have been designated by the IPCB for this use classification. The Secondary Contact standards are found at 35 IAC Section 302.400 and are established to protect indigenous species, non-contact recreation (boating) and commercial navigation.

6.0 Facility Descriptions

6.1 CRCW

The CRCW controls the flow of water between the lake and Chicago River. This facility was built by the MWRDGC in 1938 and was maintained and operated by them until 1984. In this year, the maintenance and operation responsibilities were transferred to the USACE. It consists of walls separating the river and the lake, a navigation lock, two sets of sluice gates and a pumping station. The lock is 80 feet wide by 600 feet long, with a normal lift of 2.0 feet. The two sets of underwater sluice gates consist of four gates each, each gate being 10 by 10 feet in size. The pumping station has three pumps of 30 cfs each. The pumps can only discharge from the river to the lake and were installed in 2000 for the purpose of returning excess leakage and lockage water to the lake. The pumps have yet to be used for this purpose.

6.2 LCW

The LCW is owned and operated by the MWRDGC. It is an auxiliary facility used during storm operations to discharge flood waters to the Des Plaines River. It is located two miles upstream of the LP&L and is used when discharge above the capacity of the LP&L is needed. It has 7 sluice gates, each being 30 feet wide and 20 feet high. The gate sill is at elevation -15.0 feet, CCD.

6.3 LP&L

The Powerhouse is owned and operated by the MWRDGC. It was built in 1907 and is currently licensed for two hydroelectric generating units with a total capacity of 13,500 kilowatts, 9 submerged sluice gates for the discharge of storm water and one surface sluice gate for flushing debris. The lock is owned and operated by the USACE and was built in 1933. It is 110 feet wide and 600 feet long with a normal lift of 37 feet.

Newly licensed generating units will have combined capacity of 5,000 cfs. Each submerged sluice gate is capable of a maximum discharge of 2,500 cfs. A fill or empty event for the lock

during normal water levels causes a discharge of 2,000 cfs over a 20-minute period. During storm operations, the discharge capacity through the facility is increased to facilitate the drainage of stormwater. This lowers the upstream water level and increases water velocities in the channel. Also, because of structural concerns, all of the submerged sluice gates at the Powerhouse are not used simultaneously.

6.4 OL&D

This facility was built in 1960 and is owned and operated by the USACE. The lock is 110 feet wide and 1,000 feet long with a normal lift 2.0 feet. Flow regulation is accomplished with 4 submerged sluice gates, each 10 by 10 feet in size. The gate opening for flow regulation is under the direction of the MWRDGC and the actual operation is performed by the USACE.

6.5 WPS

The WPS is located beneath and is integral with the Sheridan Road Bridge and controls the flow of water between Lake Michigan and the NSC. It was built in 1910 and is owned and operated by the MWRDGC. Lake water is brought into the channel for augmenting low flows for water quality maintenance. The station has four horizontal screw pumps rated at 250 cfs at a lift of 3.0 feet. The pump propellers are 9.0 feet in diameter and located in tunnels that run under the floor of the station from the Wilmette Harbor to the channel. Pumping is necessary when lake levels are low.

Adjacent to the south side of the pumping station is a concrete channel and sluice gate to allow for the passage of water by gravity when pumping is not necessary. The channel is 30 feet wide and 11 feet deep. During storm operations, when the channel surcharges and the water level nears 5.0 feet, CCD, the sluice gate can be opened to relieve the channel to the lake.

Five temporary pumps with an aggregate capacity of 50 cfs, were installed in 2000 due to non-operation of the large original pumps. In 2002, one of the original pumps was rehabilitated for use since the five temporary have insufficient capacity for water quality maintenance.

7.0 Operation Plan

7.1 Dry Weather Conditions

Normal dry weather discharge is released from the CWS through hydroelectric generating units and the navigation lock at the LP&L. The water level in the Chicago River at the CRCW and in the LCR at the OL&D is maintained at -2.0 feet, CCD. Discretionary diversion is brought into the CWS at the CRCW, OL&D and WPS per the planned schedule.

7.2 Wet-Weather Conditions

When weather forecasts indicate that rainfall is likely to occur, the CWS is readied for wet-weather operations. Discretionary diversion, if in progress, is curtailed and discharge at the LP&L is increased. This lowers the water level in the lower reaches of the CWS to provide storage for incoming storm flow and increases the hydraulic gradient to move more water through and out of the CWS. If no or very light rainfall occurs, the operations are returned to the dry weather mode. Light rainfall, less than 0.33 inches, normally causes little disruption in operations.

If rainfall is moderate, 0.33 to 0.67 inches, most CSO is initially contained in TARP and only reaches the CWS through increased discharge from the WRPs. Direct inflow of other storm runoff is generally not significant or problematic. Additional discharge at the LP&L is achieved by increasing the discharge through the LP&L generating units to their maximum capacity. Discharge needed beyond the maximum discharge of the generating units is put through sluice gates at the LP&L and, if necessary, the LCW. Water levels in the upper part of the CWS will rise due to storm inflow and increased WRP discharge. After the peak water level is reached, the water levels begin to subside. Discharge at the LP&L is gradually reduced as the CWS returns to dry weather conditions. When -2.0 feet, CCD, is reached at the CRCW and/or OL&D, discretionary diversion is resumed, if appropriate.

If rainfall is heavy, 0.67 to 1.5 inches, TARP will fill and excess CSO will be discharged to the CWS from pumping stations and CSO outfalls. Other storm runoff from tributary watersheds and storm sewers is significant and imposes an additional hydraulic load on the CWS. The operation of the CWS will be similar to the above description, with the exception that increased discharges at the LP&L are initiated more rapidly.

Excessive rainfall, 1.5 inches or greater, especially if preceded by antecedent rainfall, will most likely cause extreme water levels in the upper part of the CWS. If water levels reach 3.5 feet, CCD, and are rising, it will be necessary to relieve the CWS by discharging excess flood water to Lake Michigan at the CRCW, OL&D and/or WPS. The decision to provide for such relief at each facility is made based on the potential for continued area rainfall and on the water level conditions at each facility.

8.0 Measurement of Discharge and Water Level

8.1 United States Geological Survey

The USGS maintains discharge measurement stations at several location in the CWS and its tributaries. These are summarized in the following table. Water level is also available at these locations.

River	Location	Number
Chicago River	Columbus Drive	05536123
CSSC	Romeoville Road	05536995
Grand Calumet River (T)	Hohman Avenue	05536357 (Indiana)
LCR	OL&D	05536357
LCR (T)	Cottage Grove Avenue	05536290
Midlothian Creek (T)	Kilbourn Avenue	05536340
North Branch (T)	Albany Avenue	05536105
NSC	Maple Street	05536101
Tinley Creek (T)	135 th Street	05536500

All locations in Illinois, except as indicated. Tributary streams are designated (T).

8.2 MWRDGC

The MWRDGC maintains a network of rain gages in the watershed and nine water level measurement stations on the CWS. See the CWS List for water level measurement locations.

9.0 Monitoring of Water Quality

9.1 IEPA

IEPA operates an Ambient Water Quality Monitoring (AWQM) program throughout Illinois with over 200 monitoring locations. Two of these are located on the CWS, on the CSC at Route 83 and on the CSSC at Lockport.

9.2 MWRDGC

MWRDGC also operates an AWQM program and has 20 locations on the CWS. In addition, MWRDGC performs monitoring for biological conditions, physical habitat and sediment quality at all these locations. At some locations, the monitoring is performed annually and at others, once in four years. In addition, there are 30 locations in the CWS where dissolved oxygen and temperature are measured hourly with continuous in-situ monitors. See the CWS List.

9.3 USEPA

USEPA performs no regular monitoring, but has conducted surveys of sediment quality for some reaches of the CWS.

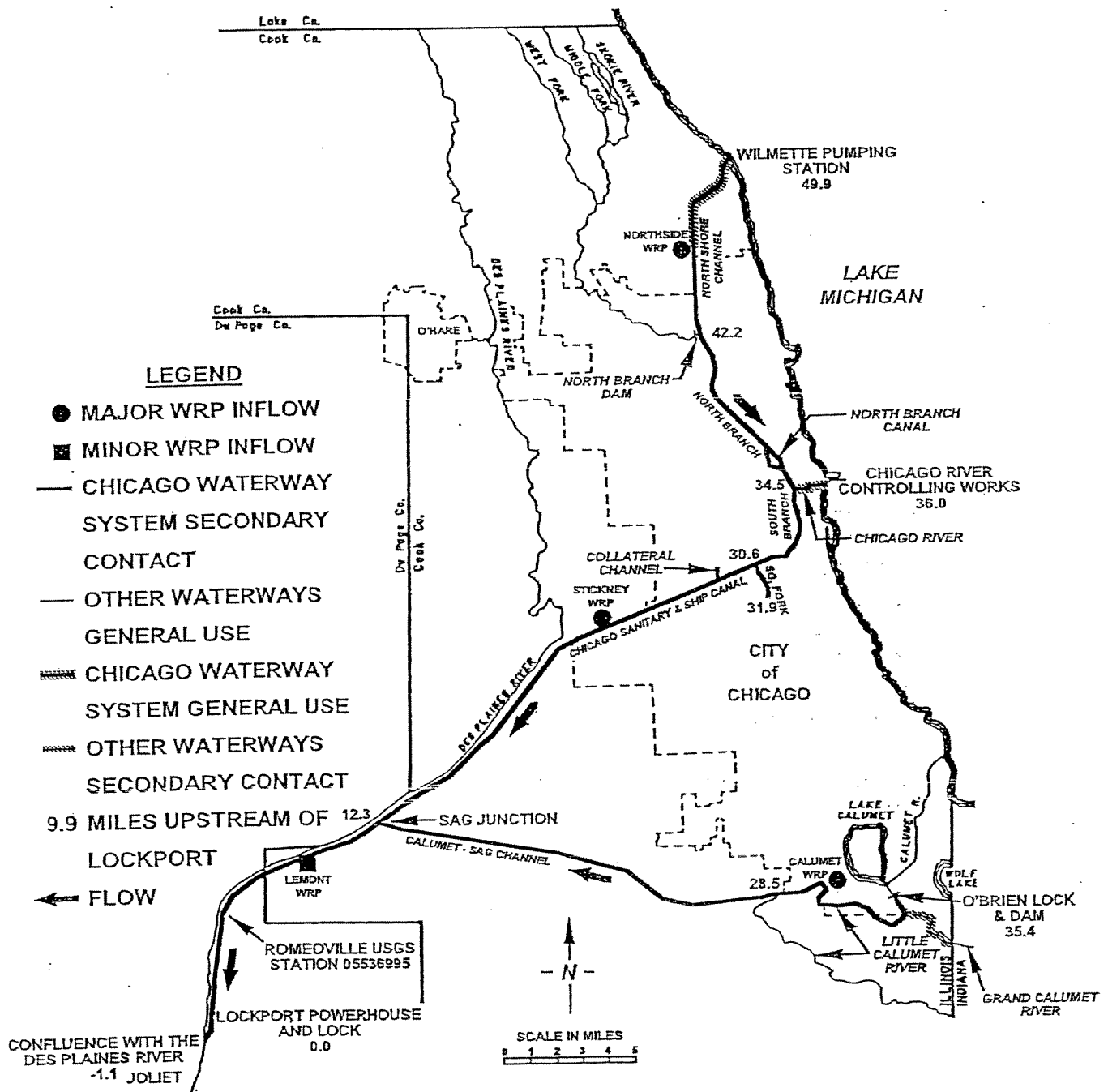
9.4 USACE

USACE performs no regular monitoring, but has conducted surveys of sediment quality for some reaches of the CWS.

10.0 Acronym List

AWQM	Ambient Water Quality Monitoring
CCD	Chicago City Datum
CFR	Code of Federal Regulations
cfs	cubic feet per second
CRCW	Chicago River Controlling Works
CSC	Calumet-Sag Channel
CSSC	Chicago Sanitary and Ship Canal
CWS	Chicago Waterway System
DWR	Illinois Department of Natural Resources, Division of Water Resources
IAC	Illinois Administrative Code
IEPA	Illinois Environmental Protection Agency
IPCB	Illinois Pollution Control Board
MWRDGC	Metropolitan Water Reclamation District of Greater Chicago
LCR	Little Calumet River
LCW	Lockport Controlling Works
LP&L	Lockport Powerhouse and Lock
NBC	North Branch Canal
NSC	North Shore Channel
OL&D	O'Brien Lock and Dam
TARP	Tunnel and Reservoir Plan
USACOE	United States Army, Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
WPS	Wilmette Pumping Station
WRP	Water Reclamation Plant
WY	Water Year (October 1 through September 30)

CHICAGO WATERWAY SYSTEM



4/10/03

CHICAGO WATERWAY SYSTEM
LISTING OF FACILITY INFLOW AND MONITORING LOCATIONS

Location	USGS River Mile	Distance U/S of Lockport	Comments
CHICAGO SANITARY AND SHIP CANAL			
Des Plaines River Confluence	290.1	-1.1	
Lockport Powerhouse and Lock	291.1	0.0	Flow MWRD WL, WQ, DO
Lockport Controlling Works	293.2	2.1	MWRD WL
Will County Power Plant, Cooling Water	296.0	4.9	OU, IN
Romeoville Road	296.2	5.1	USGS DM
Citgo Petroleum Corporation	298.0	6.9	
Stephens Street	300.5	9.4	MWRD WQ
Lemont Water Reclamation Plant	300.6	9.5	IN
Argonne Laboratory	302.3	11.2	USGS, DM, OU, IN
Illinois and Michigan Canal Connector Ditch	303.0	11.9	IN
Sag Junction	303.4	12.3	Confluence
Highway 83	304.1	13.0	MWRD WQ, DO
Baltimore and Ohio Railroad	312.3	21.2	MWRD DO
Summitt-Lyons Conduit Inflow	313.3	22.2	IN
Harlem Avenue	314.0	22.9	MWRD WQ
Stickney Water Reclamation Plant	315.5	24.4	IN
Cicero Avenue	317.3	26.2	MWRD WQ, DO
Crawford Power Plant, Cooling Water	318.5	27.4	OU, IN
Western Avenue	320.6	29.5	MWRD, WL
SOUTH BRANCH			
Damen Avenue	321.1	30.0	
South Fork	321.7	30.6	Confluence
Loomis Street	321.9	30.8	MWRD DO, WQ
Fisk Power Plant, Cooling Water	322.0	30.9	OU, IN
Jackson Boulevard	325.0	33.9	
Madison Street	325.3	34.2	MWRD WQ
North Branch and Chicago River Junction	325.6	34.5	Confluence
SOUTH FORK			
Interstate Route 55	321.9	30.8	MWRD DO, WQ
35 th Street	322.5	31.4	MWRD DO
Racine Avenue Pumping Station	323.3	31.9	CSO
NORTH BRANCH			
Kinzie Street	325.8	34.7	MWRD DO
Grand Avenue	326.0	34.9	MWRD WQ
Division Street	327.3	36.2	MWRD
Webster Avenue Instream Aeration Station	328.9	37.8	SA
Fullerton Avenue	329.4	38.3	MWRD DO
Diversey Parkway	330.1	39.0	MWRD WQ
Addison Street	331.3	40.2	MWRD DO
Wilson Avenue	332.6	41.5	MWRD WQ
Lawence Avenue	332.9	41.8	MWRD WL
North Branch Pumping Station	333.1	42.0	CSO
North Branch Dam	333.3	42.2	Tributary IN
NORTH SHORE CHANNEL			
Foster Avenue	333.5	42.4	MWRD WQ, DO
Devon Avenue Instream Aeration Station	335.0	43.9	SA
Devon Avenue	335.0	43.9	MWRD
Touhy Avenue	336.0	44.9	MWRD WQ
North Side Water Reclamation Plant	336.9	45.8	IN
Oakton Street	337.0	45.9	MWRD WQ
Main Street	337.5	46.4	MWRD DO
Simpson Street	339.5	48.4	
Central Street	340.2	49.1	MWRD WQ
Maple Avenue	340.6	49.5	USGS DM
Linden Street	340.8	49.7	
Sheridan Road (Wilmette Pumping Station)	341.0	49.9	MWRD WL, IN

Location	USGS River Mile	Distance U/S of Lockport	Comments
CAGO RIVER			
14th and South Branch Junction	325.6	34.5	
15th Street	325.8	34.7	MWRD WQ
16th Street	325.9	34.8	MWRD DO
17th Street	326.4	35.3	
Michigan Avenue	326.6	35.5	USGS DM, WL
Umbus Drive	326.9	35.8	MWRD WQ
18th Shore Drive	327.1	36.0	MWRD, WL
Cargo River Controlling Works			
19th FORK			
14th Branch Junction	321.7	30.6	Confluence
15th Avenue	322.1	31.0	MWRD DO, WQ
16th Avenue Pumping Station	323.0	31.9	CSO
LUMET SAG CHANNEL			
17th Junction	303.4	12.3	Confluence
PA Station No. 5 at Junction	303.4	12.3	SA
18th and Michigan Canal	303.7	12.6	IN
19th Highway 83	304.3	13.2	MWRD WQ, DO
20th Street	307.5	16.4	MWRD DO
21st Creek	308.1	17.0	IN
22nd Creek	309.0	17.9	IN
23rd Creek	309.4	18.3	IN
24th Creek (West)	310.7	19.6	MWRD WL
25th Highway	311.7	20.6	SA
PA Station No. 4	311.7	20.6	
26th Avenue	312.6	21.5	IN
27th Creek	314.1	23.0	IN
28th Creek	315.0	23.9	MWRD WQ, DO
29th Avenue	317.1	26.0	IN
30th Creek	317.1	26.0	
31st Avenue	317.9	26.8	IN
32nd Creek (East)	318.0	26.9	SA
PA Station No. 3	318.0	27.5	
33rd Street	319.1	28.0	MWRD WQ
34th Avenue	319.6	28.5	Tributary IN
35th Calumet River Junction			
36th Calumet River			
37th Street	320.1	29.0	MWRD WQ, DO
38th Street	321.3	30.2	SA
PA Station No. 2	321.4	30.3	IN
39th Water Reclamation Plant	321.4	30.3	CSO
40th Street Pumping Station	322.4	31.3	MWRD WQ
41st Avenue	322.6	31.5	MWRD WQ
42nd WI Railroad	325.4	34.3	
43rd Railroad	325.7	34.6	IN
44th and Calumet River	326.5	35.4	USGS DM MWRD WL
45th Lock and Dam			
46th =water level measurement			
47th =water quality sampling location			
48th =discharge measurement location			
49th =outflow			
50th =inflow			
51st =O=combined sewer overflow pumped inflow during storms			
52nd =continuous dissolved oxygen monitoring location			
53rd =supplemental aeration			
54th MWRD=Metropolitan Water Reclamation District of Greater Chicago			
55th USGS=U.S. Geological Survey			

Protecting Our Water Environment

BOARD OF COMMISSIONERS

Terrence J. O'Brien

President

Kathleen Therese Meany

Vice President

Gloria Alitto Majewski

Chairman of Finance

Frank Avila

Patricia Horton

Barbara J. McGowan

Cynthia M. Santos

Debra Shore

Patricia Young

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET

CHICAGO, ILLINOIS 60611-3154

312-751-5600

Darlene A. LoCascio

Purchasing Agent

312-751-6600

November 20, 2007

Dear Bidder:

Enclosed herewith is "Notice of Revision and Addendum in Contract Documents," Addendum No. 4, consisting of forty-six (46) typewritten pages. The addendum is dated November 20, 2007 and pertains to Request for Proposal 07-RFP-34, "Chicago Area Waterway System Habitat Evaluation and Improvement Study."

You are required to acknowledge receipt of this Notice by signing and returning this page to:

Metropolitan Water Reclamation District
of Greater Chicago
PO Box 10697
Chicago, Illinois 60610

Attention: Purchasing Department

This Notice must be signed, dated, inserted in the Contract Documents, and submitted with the Proposal, or the Bidder may identify the addendum number in the space provided on the proposal signature page.

Very truly yours,



Darlene A. LoCascio
Purchasing Agent

Attachments

Acknowledgment of receipt of the above-cited Notice:

DATE _____

FIRM _____

NAME _____

SIGNED _____

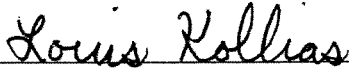
1 of 1
NOTICE OF REVISION AND ADDENDUM IN CONTRACT DOCUMENTS
ADDENDUM NO. 4

November 20, 2007


REQUEST FOR PROPOSAL 07-RFP-34
CHICAGO AREA WATERWAY SYSTEM HABITAT EVALUATION
AND IMPROVEMENT STUDY

This addendum consists of forty-six pages of
PowerPoint slides presented to the attendants of
the Pre-Proposal meeting on November 9, 2007.

The bidder shall sign this Notice in the space provided below
and insert it in the Contract Documents when submitting the Pro-
posal.



Louis Kollias
Director of Research and Development



Darlene A. LoCascio
Purchasing Agent

The bidder acknowledges that he has read this Notice of Revision
dated November 20, 2007, to the Request for Proposal Documents
and that he/she has taken the provisions thereof into considera-
tion when preparing and submitting this Proposal.

FIRM NAME _____

BY _____

DATE _____

LK:KB:bk

