

**Neighborhood Planning
for Community
Revitalization**

**Improving Water Quality in the Minneapolis
Chain of Lakes and Minnehaha Creek:
Stakeholders and Potential Strategies**

A CONSORTIUM PROJECT OF: Augsburg College; College of St. Catherine; Hamline University; Higher Education Consortium for Urban Affairs; Macalester College; Metropolitan State University; Minneapolis Community College; Minneapolis Neighborhood Revitalization Program; University of Minnesota (Center for Urban and Regional Affairs; Children, Youth and Family Consortium; Minnesota Extension Service); University of St. Thomas; and Minneapolis community and neighborhood representatives.

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Stakeholders and Potential Strategies**

Report prepared for the Lynnhurst Neighborhood Natural
Environment Committee

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I. INTRODUCTION

The Chain of Lakes, serving the Minneapolis community, are deemed of great value by both local residents and by those using the lakes for recreation. The quality of the water in the Chain is therefore of great concern to a wide range of groups: local neighborhoods, state, local and regional government agencies, non-profit organizations, businesses, and citizens throughout the Twin Cities metropolitan area and beyond.

Lynnhurst residents are concerned about the declining quality of water in Lake Harriet, the Chain's southern-most lake. The problem has manifested itself in algal blooms and in the increased growth of aquatic plants, along with an unpleasant smell. The water quality problem has been determined to be the result of human-induced eutrophication. Declining water quality in the Chain of Lakes has been linked to the large amount of surface runoff in the Chain's highly urbanized watershed. Because Lake Harriet is situated downstream from the rest of the Chain of Lakes, it is affected by the quality of water in the rest of the Chain. Likewise, the water flowing out of Lake Harriet into Minnehaha Creek affects water quality in the Creek and in Lake Nokomis, downstream.

Given the current Neighborhood Revitalization Program (NRP) process and the work of neighborhoods in determining their priorities and developing their First Step Action Plans or their Comprehensive Plans, the Lynnhurst Neighborhood has determined that the timing is right to encourage cooperation and the merging of resources to address the problem of water quality. Such a coordination of efforts requires that all stakeholders¹ and agencies involved in managing or using the Chain of Lakes and their watershed be informed of common interests and of any current efforts underway to address the issue of water quality. Mutual awareness of existing programs or priorities is the foundation upon which future collaboration can be built.

This report therefore serves two functions:

- a. To identify the public and private stakeholders in the water quality of the Chain of Lakes and the downstream Minnehaha Creek and Lake Nokomis.
- b. To gauge interest among and resources of the stakeholders for future cooperation to address the water quality problems and to identify potential strategies for addressing water quality problems.

II. THE MAJOR STAKEHOLDERS

The stakeholders in water quality in the Chain of Lakes include the neighborhoods close to or flanking the lakes, along with a plethora of state, local and regional government agencies, non-profit organizations, and businesses. Below are listed the major players, along with descriptions of their relationship to water quality issues and to the Chain of Lakes. This information was collected primarily by way of telephone interviews with organizational representatives. A comprehensive list, which also includes organizations with existing yet less well defined ties to the Chain of Lakes is provided in Appendix III.

STATE, REGIONAL, AND LOCAL GOVERNMENT AGENCIES

Minnehaha Creek Watershed District (MCWD)

The MCWD plays a critical role in water resources management for the entire Minnehaha Creek Watershed, of which the Chain of Lakes are a part. The District, a local unit of government, was formed in 1967 "to protect lakes, streams and wetlands from pollution and flooding." Its activities include monitoring of lakes and streams, lake restoration, wetland enhancement, erosion repair, and flood control. It coordinates its work with public sector agencies and the private sector (land developers) for "compatible and efficient water resources management." The District is governed by a voluntary Board of Managers, six of which are appointed by Hennepin County and one by Carber County. Funding or financing for the projects are provided through property taxes on watershed residents, and by other government units such as counties, cities, and the state.²

The District is a key team member in the Chain of Lakes Clean Water Partnership, which also includes the Cities of Minneapolis and St. Louis Park, the Minneapolis Park and Recreation Board, Hennepin County, and the Minnesota Pollution Control Agency. The Clean Water Partnership is an \$8.1 million, six-year program beginning in 1990 to investigate problems resulting from stormwater runoff into the Chain of Lakes. The District's principal leadership role in the Partnership is and was in conducting feasibility studies, designing, and constructing the wetland stormwater treatment systems.³

Minneapolis Park and Recreation Board

The Park Board is responsible for the day to day management of the lakes, including maintaining water levels. According to Michael Orange, Minneapolis Planning Department, the Park Board's budget is approved by the City Council (the Park Board was created by City Charter). The Park Board is working with Linden Hells, SENA, Kenny, East Isles, Nokomis East, and other neighborhoods. According to Bruce Wilson of the Minnesota Pollution Control Agency, the Park Board is responsible for water quality monitoring in the Chain of Lakes.

Minnesota Extension Service (MES) - Hennepin County

A state organization, the Minnesota Extension Service is a key player in the *Minneapolis Chain of Lakes Project*. Project partners include MES-Hennepin County, the Minneapolis Park and Recreation Board, and the Minnesota Department of Agriculture. The Minnesota Extension Service offers community-oriented workshops and classes through its Master Gardener's Program. Outreach and education-related activities for the *Minneapolis Chain of Lakes Project* thus focus on teaching environmental horticulture, including topics such as plant material choices for protecting shorelines and reducing runoff, and proper lawn care practices.⁴

Hennepin County Department of Public Works

The Department affects water quality through its role in managing roads and performing activities such as street sweeping. In the Twin Cities, it is responsible only for County roads outside of the city limits of Minneapolis.⁵

Minnesota Office of Environmental Assistance

The mission of the Minnesota Office of Environmental Assistance is pollution prevention and waste reduction education for businesses, local governments and individuals. The Office provides technical assistance, financial assistance, workshops and a statewide clearinghouse on waste education. The Office's function is non-regulatory. The Office works in concert with engineers from the University of Minnesota which provide free consulting services for businesses. They also work in collaboration with the Minnesota Technical Assistance Program, "MINTAP."

With respect to water quality, the Office is primarily focused on private businesses, examining the chemicals they generate, the potential for spills, how to prevent waste creation, and how to promote recycling and re-use of materials. The Office is concerned with non-point-source water pollution, and their current work focuses primarily on toxic pollutants.

The Office works frequently with the Minneapolis Environmental Section and with the Minnehaha Creek Watershed District. The Office is currently involved in a project with the Kenny Neighborhood addressing the issue of degraded water quality. The project entails examining the issue of car travel and pollutant runoff from cars.⁶

Minnesota Pollution Control Agency (MPCA)

The MPCA is the grant provider for the Clean Water Partnership. It plays an overview role with regard to the Partnership. It provides financial and technical assistance to the local units of government that are the signatories in the Clean Water Partnership, often working in cooperation with the Department of Natural Resources, the Department of Agriculture, and the Metropolitan Council. The assistance it offers can include helping to establish monitoring systems or interpret lake water quality models.⁷

The Agency is involved in producing educational materials such as the "Citizens Guide to Lake Protection," "Protecting Minnesota's Water: the Land Use Collection", and Clean Water Partnership Factsheets.

Department of Natural Resources

Division of Waters - Regional Office

The DNR itself has not established statutory programs to allow them to allocate funds for addressing the water quality issue in the Chain of Lakes. The role of the DNR in approving the surface outlet is a major one, as the DNR is responsible for approving/reviewing any proposals to change the course, current, or cross-section of the area. The DNR's Fish and Wildlife Service regulates aquatic life in the lakes, and is thus concerned with regulating the application of alum in the lakes.

Trails and Waterways Division

The Trails and Waterways Division encourages community service and education, and provides logistic support for community activities (bags and gloves, etc.). They help organize groups that adopt shoreline in the Chain of Lakes, doing litter cleanup and some planting of vegetative blocks to surface runoff.

They are both building awareness on aesthetics, and on phosphorus pollution. They collaborate with the Minneapolis League of Women Voters, who are handling a storm drain stenciling project.

City of St. Louis Park

The role of the City is that of a steward of the headwaters of the Chain of Lakes. The City has recently adopted a resource management plan for the Twin Lakes Watershed. Now they are preparing a comprehensive resource management plan, to be completed by 1998 (this plan will include policies and management practices, and will seek to quantify/address the runoff issue. The City is a partner in the Chain of Lakes Clean Water Partnership.

Hennepin Conservation District (HCD)

There is a Soil and Water Conservation District for every county in Minnesota. District boundaries generally follow county lines, as opposed to watershed boundaries. Each district is a local unit of government, comparable to a city. Hennepin Conservation District is governed by a board of five elected supervisors. The District does not have any taxing authority and so depends on the state for funds. "HCD...provides technical and financial assistance to individuals and local governments in Hennepin County...HCD administers state grant programs, conservation easement programs...and serves as ombudsman for environmental issues."⁸

The Board of Water and Soil Resources (BWSR)

The BWSR is an independent state agency but not a cabinet level agency. It is comparable to the DNR and PCA but much smaller. "The Board has the responsibility and authority to establish soil and water policies including the development and adoption of state rules" (taken from Hennepin County Water Management Advisory Committee Final Report - August 20, 1996). The Board is an administrative agency for all the Watershed Districts and the Soil Conservation Districts. The Board provides local governments with financial (state grants) and technical (often engineering) assistance. The board has a regulatory role that extends only as far as regulating local units of government. There is no regulatory contact with the general public (the Board does not issue permits, for example). Relevant Programs include the Local Water Resources Planning and Management Program, the Streambank, Lakeshore and Roadside Program, and possibly the Erosion Control and Water Quality Cost-Share Program.

Metropolitan Council

The Metropolitan Council is a regional planning agency with a broad focus. It is responsible for sanitary sewers and water that is ultimately channeled through wastewater treatment plants. The Metropolitan Council has produced a number of water quality reports on lakes in the Twin Cities area. It has also been involved in organizing community-assisted water quality testing/monitoring in lakes throughout the Metropolitan area. The agency focuses on monitoring areas that receive little attention from other agencies, and they last monitored the Chain of Lakes in 1984.⁹ Its relationship to other agencies with regard to issues of water quality is through assisting with planning, providing advice and expertise, and education.

Minneapolis Planning Department

The Planning Department develops strategic plans. There are six. The first four are water management plans, including Bassett Creek, Minnehaha Creek, Middle Mississippi, and Shingle Creek. The fifth is a

city-wide watershed management plan, covering the portions of all of the above four watersheds that lie within city limits. An umbrella plan covers all five of these, the City's "Comprehensive Plan" (called the Minneapolis Plan).¹⁰

Minneapolis Environmental Section

This organization used to be the Minneapolis Pollution Control Agency, but its name was changed when it took on a broader role. It is primarily a regulatory organization, but is now responsible for many coordinating activities as well. Minneapolis Environmental Section works, for example, with agencies such as the Minneapolis Park Board and the Public Works Department to coordinate non-point source pollution programs. The agency is also coordinates and provides administrative direction for the Environmental Coordinating Team, and staffs the Team's Water Quality Working Group.

Minneapolis Public Works Department

Minneapolis Public Works manages the storm sewer lines servicing the city. One of their major tasks is to control flooding. The Department is currently in the process of spending \$25 million on wet detention systems (also known as outfalls, grit chambers, interceptors, or collectors), building 250 all around the Chain of Lakes. The chambers are intended to trap sediment but are not constructed to treat the trapped sediment in any way.¹¹

Part of Public Works, the *Division of Solid Waste and Recycling* performs a yearly cleanup program for the Chain of Lakes, primarily to collect litter, which is a source of a number of dissolved substances. The Division prepares its own educational materials, and its efforts include stuffing bills with information regarding non-point source pollution and labeling garbage carts. The Division also holds neighborhood educational meetings to educate citizens on issues such as disposing of leaf litter and grass clippings.¹²

Minnesota Department of Agriculture

The Department monitors water quality - pesticides and nutrients, including phosphorus, entering the lake from storm water runoff. They have performed monitoring trials at different locations around Lake Harriet. Their educational initiatives for water quality include mailing informational cards to homes, and renting billboard space, under the Lake Harriet Watershed Awareness Project¹³

NEIGHBORHOODS

Nokomis East Neighborhood Association

The neighborhood is aware of and participates in Clean Water Partnership-related initiatives. It is involved in planning landscaping activities, filtering systems, and wetland and prairie construction on the south end of Lake Nokomis, in cooperation with the Park Board. It is also involved in educational initiatives: storm sewer stenciling and disseminating brochures. Nokomis East Neighborhood Association is working closely with the Standish Erickson Neighborhood, which is in the process of constructing a wetland at 31st Avenue and Minnehaha Creek.¹⁴

Through the NRP process, the neighborhood was allocated a total of \$5 million over five years. Of this, the First Step Plan is projected to spend \$1.4 million between May 1997 and the spring of 1998. The neighborhood anticipates being able to contribute \$10,000 toward jump-starting a water quality monitoring study on Lake Nokomis. The First Step Plan is to be submitted for community ratification on January 16, 1997.¹⁵

Calhoun Area Residents Action Group (CARAG)/ Uptown Association

CARAG is just beginning its NRP process. It will soon be starting to identify issues for its First Step Action Plan, and no allocations have yet been made.¹⁶

Linden Hills

Linden Hills is in its First Step Action Plan. There has been an allocation of \$40,000 toward education and cleanup programs for water quality, out of a 1st Step Action Plan budget of \$250,000.¹⁷ The educational work includes working with high schools in Linden Hills and activities such as storm sewer stenciling. The neighborhood plans to spend its funding allocation of \$40,000 by the end of 1997. Priorities for the neighborhood's Comprehensive Plan budget of \$1.5 million have not yet been set. In addition, Linden Hills has recently received a grant from the DNR for lakeshore plantings and pathway plantings to reduce runoff into the lakes.¹⁸ Linden Hills is contributing money to shoreline planting.¹⁹ One of the key agencies the neighborhood is working with is the Framework Committee.

Linden Hills is working with the Minneapolis Planning Department and is about to hire a private consulting team that may or may not include an environmental engineer. The comprehensive plan would cover the whole neighborhood, dealing with issues such as traffic and parking, development/construction, the hierarchy of streets, and bikeways. This plan has the potential for being developed with the water quality of Lake Harriet in mind - in which case issues such as the narrowing of streets and other structural changes to minimize runoff, as part of the comprehensive plan, may become relevant.²⁰

Bryn Mawr Neighborhood Association

The neighborhood has completed its First Step Action Plan, representing \$250,000 out of a total NRP budget of \$500,000. Bryn Mawr has a Parks, Recreation and Community Committee. The principal environmental focus, however, is on parks and trails in the Bassett Creek area; no specific plans for the Chain of Lakes or for water quality exist.²¹

Cedar Isles Dean Neighborhood (CIDN)

The neighborhood has been in its implementation stage with its NRP funds since December 1994, and expects to complete implementation by the end on 1997. It has allocated \$829,600 over five years. The neighborhood has put aside roughly \$15,000 for education on water issues.²² Cedar Isles Dean has contributed \$50,000 of its NRP funds on enhancement activities at Cedar Meadows: trails, docks, and additional wetland plants.²³

Tangletown Neighborhood Association

This neighborhood chose not to adopt a First Step Action Plan but instead is directly developing its Comprehensive plan, which will allocate \$1.1 million. Tangletown's Parks and Public Spaces Task

Force has adopted goals and objectives which include: "to preserve natural resources along Minnehaha Creek and the Parkway; to improve water management quality and quantity for Minnehaha Creek; to improve land management along Minnehaha Creek." The Neighborhood is interested in working with other neighborhoods to address water quality issues, focusing on such concerns reducing runoff and on promoting low impact use.²⁴

Kenwood Isles Area Association

Their First Step Plan is completed, money has been allocated (mostly toward environmental education - the hosting of seminars on addressing pollution for households), but the specifics of allocation have not yet been decided. The Kenwood NRP plan seeks to include organizations such as the MES-Hennepin County *Master Gardener Program*, the Park Board, and the Multi-Neighborhood Clean Water Task Force.²⁵ The neighborhood's overall implementation budget is \$440,000 over three years. Of this \$30,000 has been allocated to environmental issues. All goals and strategies in the environmental section are related to water quality.

Lowry Hill Residents, Inc.

They have a completed plan so they are in implementation now. The neighborhood has not made specific allocations for water quality within their NRP plan, but as a Neighborhood Association, they are interested in the issue and interested in the Chain of Lakes.²⁶

Standish Ericsson Neighborhood Association

[expand] They held a groundbreaking ceremony on Nov. 23 for a wetland down by the Creek (using NRP funds). There is a big concern for water quality in the neighborhood and people are working on this issue.²⁷

Lynnhurst Neighborhood Association

Lynnhurst has just completed the community ratification of its First Step Action Plan. The Plan is being submitted to the City Council on December 13, 1996 for final approval. The First Step Allocation totals \$250,000.²⁸ In the First Step, the neighborhood identified the following actions to be taken to address the water quality problem: storm drain stenciling, conducting research to identify partners in improving water quality, identifying funding sources for water quality-related projects, generating water quality education materials, and participating in the Multi-Neighborhood Clean Water Task Force. In the First Step, expenditures on water quality will total approximately \$6,300.²⁹ For the Comprehensive Plan, the neighborhood anticipates that additional funds will be allocated toward water quality.³⁰

East Harriet-Farmstead Neighborhood Association

East Harriet was one of the first neighborhoods to go through the NRP process. They are well into their third year of implementation out of a five year plan, but are considering adding two additional years to their implementation process. The neighborhood has been re-directing some of their earlier allocations, and on January 23, 1997, will be reallocating approximately \$300,000. Their Steering Committee has recently recommended putting \$15,000 into environmental education, much of which is likely to be contributed to the water quality education "Cookbook" of the Multi-Neighborhood Clean Water Task

Force. One of the interests of the neighborhood is in promoting the development of "ecoteams" (see description under the non-profit organization, Global Action Plan).³¹

East Isles Residents Association

East Isles is carrying out their First Step Action Plan, approved in 1995, for which \$250,000 was allocated. The neighborhood has an interest in water quality. Most strategies related to improving water quality are educational in nature, for which allocations totaling \$32,000 were made. The neighborhood is part of the Multi-Neighborhood Clean Water Task Force, participates in various signage projects, and disseminates information on addressing non-point source pollution to residents. Allocations of \$43,600 were made to conduct trail reconstruction (targeting submerged trails), working in cooperation with the Minneapolis Park and Recreation Board. The full action plan has yet to be developed; full-scale implementation will likely begin in two years with a budget of roughly \$1 million.³²

East Calhoun Community Organization (ECCO)

ECCO bypassed the First Stage of the NRP process and plans to submit its full Implementation Plan by February, 1997. The neighborhood conducted a survey that indicated water quality was a high priority issue among residents. Plans include lakeshore stabilization, water quality education, and participation in the Multi-Neighborhood Clean Water Task Force. ECCO has been in contact with the Minneapolis Park Board during its planning process, and has participated in the Chain of Lakes Framework Committee. The proposed budget for ECCO's Implementation Plan is roughly \$780,000, of which \$114,000 was allotted for environmental issues (primarily water quality-related but also addressing concerns such as traffic noise).³³

Field, Regina, Northrop Neighborhood Group

This neighborhood has completed its full plan, skipping the First Step. The full plan was approved on December 29, 1995, with a budget of \$2.7 million. Implementation should continue until 1999. The plan does not address water quality or the environment, and there is no group or committee dealing with water quality in the neighborhood.³⁴

Fulton Neighborhood Association

Fulton Neighborhood has completed its First Step Action Plan, for which \$248,590 was allocated. The neighborhood is still in the planning phase for "implementation."

Hale, Page, and Diamond Lake Community Association (HPDL)

Specific environmental tasks identified by the neighborhood as needing attention include the quality of water and runoff problems of Diamond Lake, and environmental concerns related to Minnehaha Creek. They are currently in their implementation stage, which should continue through the spring or summer of 1998. No money is specifically attached to water quality. Their full Implementation Plan was approved as of July 1, 1994, allocating a little over \$2 million. Projects are likely to continue through 1999.³⁵

West Calhoun Neighborhood

West Calhoun is in the First Stage of its NRP process, for which it received \$5000. The majority of this was spent on determining neighborhood interests and priorities. Water quality was found to be the primary issue of concern in the neighborhood. West Calhoun hopes to begin implementation in the Spring of 1997, with an anticipated budget of \$250,000 - \$750,000 over five years.³⁶

St. Louis Park Neighborhoods

Neighborhoods in St. Louis Park are less organized than in Minneapolis. Only five out of the 37 neighborhoods are organized. Lake Forest and Fern Hill are the only neighborhoods that were involved in the Chain of Lakes Clean Water Partnership.³⁷

WORKING GROUPS, COMMITTEES, AND TASK FORCES

Multi-Neighborhood Clean Water Task Force

The task force works primarily with NRP. Thirteen neighborhoods have indicated an interest in participating on the Task Force; on average there are 10 people per meeting. The main focus of the Multi-Neighborhood Clean Water Task Force is education (producing printed materials and signage). They are currently in contact with neighborhoods adjacent to the Chain of Lakes (especially those still completing their NRP First Step Action Plans) to get them to reserve funds for clean water education. Combining the resources of many neighborhoods (approximately \$5000-8000 per neighborhood), the Task Force has a budget of roughly \$105,000.³⁸

The Multi-Neighborhood Clean Water Task Force's "Recipe Book for Clean Water" will be a "residential cookbook," containing watershed-wise strategies for improving water quality. This book-in-the-making will be a comprehensive guide to actions that can be taken by landowners/users of all areas that drain into water bodies to reduce both runoff and production of problem pollutants. The task force is trying to get neighborhoods around the Chain of Lakes involved in the first step of their NRP plan to contribute funds to developing and disseminating the book. If enough neighborhoods contribute, a publication of sufficient quality to be marketed for royalties, both in-state and nationally, to allow the neighborhoods to pay of their NRP investments in the book.

The Multi-Neighborhood Clean Water Task Force's Signage/Stenciling Project involves putting together artful clean water educational signs, targeting visitors to the lake - including on manhole covers and bus-station shelters.

Finally, the Task Force is encouraging the signing a joint letter to product and service providers that affect the Chain of Lakes. The hope is to get all the Neighborhood Associations to sign a joint letter to all the landscaping, lawn care, and management businesses that affect the lake, urging them to pursue sound management practices.

Minneapolis Water Quality Education Committee (a citizens committee)

This committee includes many Chain of Lakes residents.³⁹ The committee has a coordinating, advisory and "encouragement" role, but does not have any funding of its own. The committee coordinates round table sessions, bringing non-profit organizations, community organizations, neighborhood associations, and public schools together. The Minneapolis Park Board and the Minneapolis Public works are represented at each committee meeting.⁴⁰

The Chain of Lakes Framework Committee

The Framework was set up to plan long-term improvements throughout the Chain of Lakes - it covers a wide range of structural/aesthetic issues, only some of which are related to water quality. The Committee is examining the idea of linear wetlands.⁴¹ The Committee includes Linden Hills and Kenwood Isles, among other neighborhoods.

Managing the Urban Environment to Improve Water Quality Working Group / Freenet

This group started as a joint neighborhood internet discussion group, and continues to be internet-based. It is a "group of citizens working to assist neighborhoods to access information and collaborate on projects focused on improving urban water quality." The discussion group can be accessed by joining the "Managing the Urban Environment Mailing List" at <http://freenet.msp.mn.us>.⁴²

The Grand Rounds Citizen Parkway Committee

They produced a report in June 1995 - their temporary charge was to examine the role of the Minneapolis Parkway system in the city for environmental and other functions, to look toward the future and to recommend policies. They outlined issues such as shore erosion, path erosion and water quality for both Harriet and Calhoun in their report.⁴³ The Committee has been sunsetted (disbanded).⁴⁴

Citizens Environmental Advisory Committee (CEAC)

Coordination and administrative support for CEAC comes from the Minneapolis Environmental Section. Guy Fischer of the Minneapolis Environment Section provides this description of CEAC: "The purpose of this committee is to advise on the environmental consequences of City policies, programs and projects. The Committee works closely with the Environmental Coordinating Team (ECT) by providing advice and comments on projects, programs, and policies referred to the CEAC by ECT. CEAC may suggest priorities for City policies, programs and projects in accordance with criteria such as environmental urgency, scale of environmental impacts, ease of implementation, costs and benefits."

Environmental Coordinating Team: Water Quality Working Group

According to Michael Orange, City of Minneapolis Planning Department, the Environmental Coordinating Team is instrumental in the City's decisions with respect to the environment, including water quality. The Team's Water Quality Work Group includes the department heads of the following agencies: The Park Board, Minneapolis Planning, Minneapolis Public Works, Minneapolis Inspections, and the City Coordinator's office.

BUSINESSES

Cargill

In February, 1995, Cargill started a program, *Water Matters*, a part of the "Cargill Cares" campaign. Water Matters provides resources to local organizations interested in addressing water quality issues. The objectives of the 1995 Cargill Cares Campaign include: "To educate employees, families, and the broader community about local water quality issues; To link company volunteers and financial resources with service projects addressing local water quality concerns; To involve appropriate stakeholders in active dialogues and in planning solutions to local water quality issues... ."

Ringer Corporation

This corporation manufactures Ringer Brand fertilizers and pesticides that are "less harsh from an environmental standpoint."⁴⁵

NON-PROFIT ORGANIZATIONS

Citizens for a Better Environment

Citizens for a Better Environment is not now directly involved in the Chain of Lakes. They are working on issues with Bassett Creek, Brodlevale Creek, and have a project in St. Paul, providing technical assistance to these watersheds, and helping with creek restoration projects and education. Funding limits the scope of their work. While they are interested in the Chain of Lakes, their grants restrict them to other areas. They do not currently have the staff to give time to the Chain.⁴⁶

Minneapolis League of Women Voters

The League has a contract with the Minneapolis Public Works Department to stencil each storm drain in the Twin Cities, with the message discouraging the pollution of storm drains. They call it their *Catch Basin Stenciling Project* - to educate watershed residents about the impact of pollutants draining into the storm sewers and the waterways they lead to. Target population: Residents of watersheds of the Chain of Lakes, Bass Lake, Shingle Creek and Mississippi River. Educational material: doorhangers and stenciling kits.

Sustainable Resource Center

SRC is involved in developing demonstration sites, educating about sustainable lawn care, native plantings, etc. through the Multi-Use Urban Greenspace Project. They target homeowners, landscapers, property managers.⁴⁷

Global Action Plan

Internationally operational, this organization's primary focus is to promote the creation of "ecoteams." Ecoteams are groups of six to eight households committed to addressing environmental problems through making personal changes. Issues currently addressed through this Global Action Program include: garbage, water, energy, transportation, "ecowise" consumption, and "empowering others." The

creation of ecoteams might provide neighborhoods in the Chain of Lakes area with an effective means of taking action to improve water quality.⁴⁸

Cairn and Associates

Cairn and Associates have focused on service learning projects, involving elementary school students in community service projects such as storm drain stenciling and stream bank erosion control. Their work has been primarily focused around Minnehaha Creek. Their primary partners are the Park Board and the Watershed District. They have worked with three elementary schools: Windom, Burroughs, and Field.

They believe that there is potential for the schools to get involved in water quality monitoring in the Twin Cities in the near future.

Much of their work has been done through a Metropolitan Council Grant (Twin Cities Water Quality Grant Program).

Clean Water Action Alliance of Minnesota

Clean Water Action is a national organization with state chapters. It is primarily a lobbying and grassroots organizing group, with a focus on influencing state and national water policy. Locally, it works closely with organizations such as the Land Stewardship Project and the Minnesota Center for Environmental advocacy.

One of Clean Water Action's priorities is to get the Clean Water Act implemented locally. The agency's Organizing Director, Marie Zeller, explained that Section 319 of the Clean Water Act deals with stormwater runoff, combined sewer overflow, and non-point source pollution regulation. Section 319 will be debated in Congress in the coming year. Non-point source pollution in the Chain of Lakes is therefore a very timely issue, and Clean Water Action hopes to network with and develop closer ties with local neighborhoods dealing with the problem.⁴⁹

Minneapolis Aquatennial

Since 1940, this ten-day festival has provided a sense of cultural unity to "celebrate the lakes, rivers, parks and neighborhoods of Minneapolis." Minneapolis Aquatennial works closely with the Park Board.

Twin Cities Radio Broadcasting Association

Recently tried to acquire a \$100,000 Metropolitan Council grant to leverage \$700,000 in donated radio spots on the top 19 commercial radio stations in the metro area to educate the public on water quality issues. The Association did not receive the grant in question, but remains highly committed to improving water quality and keen to participate in any current efforts. A strong possibility for leveraging donated radio spots still exists if start-up funds can be identified.⁵⁰

The Cedar Lake Park Association

The mission of the Cedar Lake Park Association includes the creation and nurturing of a park at Cedar Lake with a thriving nature preserve; the Association also seeks to provide opportunities for people to learn to live in community with nature. Cedar Lake Park Association is doing some planting /

revegetation.⁵¹ The Association is extremely interested in supporting water quality efforts directed at the Chain of Lakes and in participating in collaborative initiatives with other neighborhoods. The Cedar Lake Park Association has supported and continues to support every effort to improve water quality. The Association supported the construction of the wetland on the north east side of Cedar Lake, and would welcome the expansion of these wetlands. It has been involved in restoration activities such as the planting of prairie grasses and aquatic plants. The Association has existed since the mid to late 1980s and has much experience with fundraising and with nurturing private/public partnerships.⁵²

Minnesota Public Lobby

This organization strongly supports water quality monitoring and improvement efforts, and sponsors the "Adopt a Lakeshore" program.

The Alliance for Metropolitan Stability

One of the working groups in this Alliance, led by Lisa Doerr at Citizens for a Better Environment, focuses on the cleanup of polluted land and on water quality. The group is interested in stimulating support for cleanup efforts along natural waterways, thereby encouraging inter-neighborhood and inter-city cooperation (most waterways are common to more than one neighborhood).⁵³

Minnesota Environmental Initiative (MEI)

A 501(c)3 non-profit organization. The organization exists to create a forum for businesses, government agencies, and environmental groups to form partnerships. They have three main "focus programs": 1) Energy efficiency and renewable energy; 2) Brownfield re-development; and 3) Corporate environmental management. These topics do not limit the interests of MEI, however. The group was a part of the Minneapolis Park Board's 1995 Water Quality Roundtable and continues to have an interest in water quality issues.⁵⁴

Freshwater Foundation

The mission of the Freshwater Foundation is to promote sustainable use of freshwater resources through education, publications, conferences and research.

Urban Ecology Coalition (UEC)

The UEC is a network of people and organizations devoted to assisting Twin Cities urban neighborhoods in improving their living environment by promoting and advocating neighborhood collaboration, environmental education and sustainable urban development.⁵⁵ Participating agencies include Citizens for a Better Environment, Global Action Plan, Minneapolis Planning Department, and the Minneapolis Park Board, among others.⁵⁶ The UEC organizes conferences, holds workshops, and recently "...has been involved in ongoing discussions with the City of Minneapolis around the upcoming Minneapolis Comprehensive Plan in order to bring attention to the broad environmental needs of urban neighborhoods."⁵⁷

III. PRELIMINARY LIST OF POTENTIAL STRATEGIES FOR IMPROVING WATER QUALITY

Strategies for addressing problems associated with cultural eutrophication can be classified as either structural or educational (although some strategies overlap). Structural strategies have been mostly planned and conducted by government agencies. Leadership in developing and implementing educational strategies has been split between government agencies, businesses, non-profits, and neighborhood organizations.

Where the information was available, organizations currently or at one time involved in either researching, promoting, or pursuing the strategy in question are listed.

STRUCTURAL STRATEGIES

- **Wetland construction above Lake Calhoun** - *Clean Water Partnership signatories (Minnehaha Creek Watershed District, City of Minneapolis, City of St. Louis Park, Minneapolis Park and Recreation Board, Hennepin County) and the Minnesota Pollution Control Agency*
 1. Wetlands have already been constructed at Cedar Lake (Cedar Meadows) and Twin Lakes. They have been completed, and feature both a wetland and detention basin. This project was funded by the Clean Water Partnership (funds administered by the MPCA).
 2. A feasibility study is being conducted now to construct a similar wetland above Lake Calhoun. This would be a storm water management system featuring a detention system similar to that at Cedar Lake, according to Gene Stromen of the Minnehaha Creek Watershed District. This is planned for 1997.⁵⁸
- **Creation of linear wetlands**⁵⁹ - *Chain of Lakes Framework Committee*
- **Improving existing wetlands** - *The Cedar Lake Park Association, Cedar Isles Dean Neighborhood*
- **Treatment with alum**⁶⁰ - *Clean Water Partnership signatories (Minnehaha Creek Watershed District, City of Minneapolis, City of St. Louis Park, Minneapolis Park and Recreation Board, Hennepin County) and the Minnesota Pollution Control Agency; Minnesota Department of Natural Resources* - This treatment started on Friday, October 25, 1996. It is funded under the Clean Water Partnership program. The DNR's Fish and Wildlife Service regulates aquatic life in the lakes, and is thus concerned with regulating the application of alum in the lakes.
- **Manage Chain of Lakes fish communities**⁶¹ - *Clean Water Partnership Signatories, Department of Natural Resources* - Implementation of experimental fishing regulation
- **Reduce shoreline erosion / planting**⁶² - *Minneapolis Park and Recreation Board, Department of Natural Resources - Trails and Waterways Division, Cairn and Associates, Neighborhoods* - This might entail planting willows or mixed vegetation on the shoreline to upgrade shoreline quality.

According to Jeff Lee of the Minneapolis Park Board, Linden Hills is currently contributing money to shoreline planting.

- **Additional erosion / sediment deposition control projects⁶³** - e.g. creation of contour banks
- **Periodically cutting/ 'harvesting' lake weeds** (primarily milfoil) - *Minneapolis Park and Recreation Board* - According to Jeff Lee of the Minneapolis Park Board, this is currently done entirely for aesthetic reasons.
- **Narrowing streets: reducing surface area of high-runoff surfaces** - *Neighborhoods, Minneapolis Planning Department* - Phillip Moessig of the Minnesota Office of Environmental Assistance suggested that neighborhoods might consider this strategy as they carry out their NRP plans, acting in partnership with the City.
- **More effective and flexible street-sweeping** - *Clean Water Partnership Signatories, particularly Minneapolis Public Works Department; Hennepin County Department of Public Works* - A strategy encouraged by William Boudreaux of ECCO, also a participant on the Multi-Neighborhood Clean Water Task Force.
- **Street vacuuming** - This strategy was suggested by Randy Anhorn of the Metropolitan Council as an option preferred to street sweeping. The reason for this is that street vacuums remove small particles and dust, which are likely to hold most of the phosphorus. Street sweepers remove the larger particles but often leave small particles and dust to be washed into the storm sewers.
- **Wet detention systems⁶⁴** (also known as outfalls, grit chambers, interceptors, collectors) - *Minneapolis Public Works Department*
- **Introducing the exotic milfoil weevil** as a form of biological control for the invasion of Eurasian milfoil into the Chain of Lakes.⁶⁵
- **Reduce goose population⁶⁶** - *Clean Water Partnership Signatories*
- **Litter collection around the Chain of Lakes** - *Minneapolis Department of Public Works - Division of Solid Waste and Recycling*
- **Use of calcium to remove phosphorus from natural waters in the presence of organic matter⁶⁷**
- **Increase zooplankton populations in all lakes to keep algae populations in check.⁶⁸**
- **Continued monitoring of Lake Water Quality⁶⁹** - *Minneapolis Park and Recreation Board, Minnesota Pollution Control Agency, Metropolitan Council*

STRUCTURAL STRATEGIES INVOLVING PROPOSED MODIFICATION OF PUMPING OR SURFACE FLOW IN THE CHAIN OF LAKES

- **Continued pumping of water from Lake Calhoun to Lake Harriet - Park Board, Barr Engineering** - This project is not part of or funded by the Clean Water Partnership. In a telephone interview on October 25, 1996, Dale Homuth (DNR Regional Office) explained that the DNR is likely to approve renewal of the pumping permit for about three more years, based on promises that it will ultimately be discontinued.
- **Gravity system north to Bassett Creek** - an alternative to the surface outlet between Lake Calhoun and Lake Harriet.
- **Constructing a surface outlet between Lake Calhoun and Lake Harriet - Park Board, Barr Engineering** - Coinciding with the end of the pumping, it is likely that a permit will be issued to the Park Board to construct a surface outlet connecting Lake Calhoun to Lake Harriet. The surface outlet would replace the current pumping system (the alternative currently favored is Alternative Two, option B - a new pipeline to Roberts Bird Sanctuary). Dale Homuth of the DNR said that the Park Board will probably want to have the surface outlet set at the current pumping level. The agencies that have the final say on both authorizing the surface water outlet and setting the level are:
 1. Minnehaha Creek Watershed District
 2. Hennepin Conservation District (a soil and water conservation district under the Board of Water and Soil Resources),
 3. Department of Natural Resources
 4. Minnesota Pollution Control AgencyThe role of the DNR in approving the surface outlet is a major one, as the DNR is responsible for approving/reviewing any proposals to change the course, current, or cross-section of the area.
- **Pumping water from Brownie Lake to Bassett Creek** - This option would utilize the existing pipeline from the augmentation pump station at Bassett Creek.⁷⁰
- **Constructing a surface outlet from Cedar Lake to the Highway 394 pond at Penn Avenue** - "The pond discharges through an existing pipeline to Bassett Creek."⁷¹
- **Pumping water from Lake Calhoun to the Mississippi River via the storm water system**
- **Pumping water from Lake Calhoun to the Mississippi via the stormwater detention basin at 38th street and Bryant Avenue South.**

EDUCATION-RELATED STRATEGIES

- **Producing publications** - Agencies actively involved include: *Multi-Neighborhood Clean Water Task Force, Minnesota Pollution Control Agency, Park Board, MN Department of Agriculture - Lake Harriet Watershed Awareness Project, and Cargill.*

- **Promoting “ecoteams”** - *Global Action Plan, East Harriet-Farmstead Neighborhood Association*
- **Catch basin signage/stenciling** - *The Multi-Neighborhood Clean Water Task Force, Minnesota League of Women Voters, The Clean Water Partnership Signatories, Public Works, Minnesota Department of Natural Resources - Trails and Waterways Division, Minneapolis Neighborhoods, Cairn and Associates*
- **Encouraging sound management practices**⁷² - Signing a joint letter to product and service providers that affect the Chain of Lakes. *Multi-Neighborhood Clean Water Task Force*
- **Education for environmentally sound horticulture and landscaping** - *MES - Hennepin County, the Park Board, Minnesota Department of Agriculture, Sustainable Resource Center* - This strategy involves working with residents/land owners in consultation. Their “Master Gardener’s Program” has been involved in Water Quality issues. The *Lake Harriet Watershed Awareness Project* is a cooperative effort among the Minnesota Extension Service - Hennepin County, the Park Board, and the Minnesota Department of Agriculture. Informal cooperation exists with representatives of the City of Minneapolis, William Mitchell College of Law, and representatives of the lawn care industry. Their work is a mixture of education and monitoring. The monitoring exists to “measure the success of the education initiatives.”
- **Education on protecting shorelines and reducing runoff** - *MES - Hennepin County, Minnesota Department of Natural Resources - Division of Trails and Waterways*
- **Pollution prevention and waste reduction education for businesses, local governments, and individuals** - *Minnesota Office of Environmental Assistance, Minneapolis Department of Public Works - Division of Solid Waste and Recycling*
- **Education to change use patterns in the parks** - *Clean Water Partnership Signatories* - the goal would be to encourage better use patterns in the parks around the Chain of Lakes that would have less of a negative effect on water quality.
- **General education initiatives** - *Cargill - Water Matters Program; Freshwater Foundation; The Minneapolis Park Board* is working on additional education initiatives with the following neighborhoods: East Isles, Standish Erickson, CIDN, Kenwood Isles, ECCO, Bryn Mawr, CARAG (maybe others).⁷³
- **Improving cooperation and coordination between stakeholders** - *Minneapolis Water Quality Education Committee; Minneapolis Environmental Section; Minnesota Environmental Initiative; Urban Ecology Coalition; Cargill - Water Matters Program*

LEGISLATIVE STRATEGIES

- **Ordinances - new regulatory control / strengthening and enforcement of existing control** - *Clean Water Action Alliance of Minnesota*

IV. SUMMARY: DISCUSSION OF PARTNERSHIPS AND AREAS OF FUTURE EXPLORATION

There is as of yet no committee or organization that has been fully inclusive of stakeholders in water quality for the Chain of Lakes and Minnehaha Creek, as this report (and its Appendix II) has attempted to be. There are logistical reasons for this, as it is hard to get a large number of organizations represented simultaneously. The truth remains, however, that if the efforts of different agencies and groups are to not work against each other, it is necessary that there be an awareness and understanding of what everyone is trying to accomplish.

At the neighborhood level there are several organizations dedicated to furthering cooperation on water quality issues. One prominent group of this kind is the Multi-Neighborhood Clean Water Task Force, which has already mobilized the participation of many neighborhoods around the Chain of Lakes area. This task force could be strengthened by becoming inclusive of neighborhoods downstream (all the way to Lake Nokomis, along the Minnehaha creek). Those neighborhoods are likely to have a large stake in the quality of water coming out of the Chain of Lakes and may be interested in cooperation with neighbors upstream.

Businesses have a stake in the water quality of the Chain of Lakes. Better water quality means higher land prices, more tourism, increased use of the lakes, greater economic value attached to the lakes, and stronger business in the whole area. Many of the business owners in the Chain of Lakes area are also Chain of Lakes residents. There is therefore a pressing need to include business associations in any discussions related to shaping policy for improving water quality in the Chain of Lakes, as opportunities may exist for mobilizing private sector contributions and forging private/public partnerships. Fulton Business Association was consulted during the course of the research conducted for this report, and members communicated interest in discussing future participation in water quality initiatives. Cargill's Water Matters program provides an example of important private sector leadership in the area of water quality. The cooperation of the Kenney neighborhood with Cargill's "Water Matters" program may serve as a model for use by other neighborhoods in the Chain of Lakes area.

At the state and city level, organizations exist to facilitate communication and to better coordinate policies/plans between the different government agencies whose activities have an impact on the Chain of Lakes. The principal organization acting in this field is the Minneapolis Environmental Section, with administrative and coordinating responsibility for the Environmental Coordinating Team and for the Citizens Environmental Advisory Committee. The Environmental Coordinating Team's Water Quality Working Group has the important role of bringing together the department heads of Minneapolis City Departments responsible for environmental management activities affecting water resources and representatives of other key agencies, including non-profit organizations.

In addressing the challenge of bringing diverse groups together over the issue of water quality, the non-profit Minnesota Environmental Initiative could represent an invaluable resource. The Minnesota Environmental Initiative has over six years of experience in catalyzing dialogue on environmental

issues, involving businesses, government agencies and environmental non-profits, and is capable of playing a role in helping to develop partnerships among neighborhoods and organizations in the public and private sector to improve water quality in the Minneapolis Chain of Lakes.⁷⁴

Across all the categories examined in this report, there are many organizations involved in educating the general public on how watersheds work, how they are affected by human activity, and what actions can be taken by households. The risk of doubling efforts, both in the production and dissemination of educational materials, therefore exists. The coordination of financial and physical resources to accomplish such tasks may allow groups to more effectively reach the general population and leverage larger contributions from state, federal, or corporate sources. Achieving such coordination requires an appropriate, effective organizational mechanism. The mission and organizational structure of the Urban Ecology Coalition may offer a model for building a comparable network/organization more specifically focused on water quality issues in the Chain of Lakes and Minnehaha Creek area.

One way to facilitate communication and understanding between the large number of stakeholders covered in this report would be through the creation of a Chain of Lakes Water Quality Web Site on the Internet. Such a web site would summarize multi-organizational decisions, ideas and actions relating to water quality on a regular basis. All participating agencies would submit a summary of their meetings on water quality, including the most recent decisions/plans pertaining to water quality. Each neighborhood would need to obtain an internet hookup and be able to check the site regularly, particularly prior to holding its own water quality meetings. Maintenance of this web site could be coordinated by one person hired jointly by neighborhoods using NRP funds (possibly leveraging government or private sector contributions). The effect of this strategy would be more effective community-wide participation in water quality. The Water Quality Internet Site Coordinator would be responsible for receiving water quality meeting summaries from government agencies, non-profits and neighborhoods and summarizing these on the internet. The Coordinator could also attend public meetings to prepare such summaries. Information is power, and the more information all members of the community have on water quality, the more powerful the community will be as a whole to address water quality issues in a cooperative manner.

In addressing water quality problems in the Chain of Lakes and Minnehaha Creek, an understanding of the interests of all stakeholders and a policy of inclusiveness in the process of decision-making is the best way to achieve positive and meaningful change over the long term. Achieving this change will involve building more effective organizational mechanisms to facilitate communication that will result in a more coordinated and leveraged use of public and private resources.

V. APPENDIX I: POTENTIAL FUNDING SOURCES LISTED

- **Blandin Papers** - Grand Rapids, MN⁷⁵
- **Ducks Unlimited**⁷⁶
- **Legislative Commission on Minnesota Resources (LCMR)** The LCMR is a commission made up of 16 legislators with the mission of making funding recommendations to the Legislature for special natural resource projects. The Commission began in 1963 and has appropriated over \$350 million since then to help maintain and enhance Minnesota resources.⁷⁷ Any organization can apply for funding. For 1997, LCMR is recommending appropriations of \$36,656,000. Of that, 37% is recommended for local government, 14% for private organizations, 37% for state agencies and state government, and 13% for University of Minnesota projects and affiliations.⁷⁸ The commission convenes every biennium. The next RFP is January 1998.⁷⁹
- **McKnight Foundation**
- **Metropolitan Council** - The Metropolitan Council administers the Twin Cities Water Quality Grant Program⁸⁰ Half of the grant program can be used for structurally-oriented projects; half for education purposes. The \$10 million program has two years remaining, and accepts 70-80 proposals per year.
- **Minnesota Office of Environmental Assistance** - The Office provides grants and funding to address non-point source pollution. The next funding round is in the summer of 1997. The kind of project that they would be likely to financially support, according to Phillip Muessig, would be a broad and comprehensive one, addressing the role of businesses, residents, and the city, and possibly touch on issues such as urban design (narrowing streets, etc., to prevent runoff).
- **Minnesota Pollution Control Agency** - Funding from the MPCA may be available through the Federal Section 319 *Nonpoint Source Management Fund* of the Water Quality Act of 1987 (PL 100-4). Funding from this source assisted the Minnesota Department of Agriculture's Lake Harriet Watershed Awareness Project. The Fund is used primarily to help state partnerships.⁸¹ The MPCA also has a funding program called "Lakewatch." This is for funding water pollution monitoring.
- **Walmart Foundation**⁸²

¹ For the purposes of this report, the term "stakeholder" will be used to describe organizations and individuals that directly or indirectly manage the lakes, use the lakes, attach value to the lakes, or are concerned with their environmental health, particularly with regard to water quality.

² Personal communication, Eugene Strommen, MCWD, and MCWD summary booklet: "Improving Quality of Water, Quality of Life."

³ Personal communication, Eugene Strommen, MCWD, and MCWD summary booklet: "Improving Quality of Water, Quality of Life."

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- ⁴ Bob Mugaas, Minnesota Extension Service - Hennepin County
 - ⁵ Janet Leick, Hennepin County Department of Public Works
 - ⁶ Phillip Muessig, Minnesota Office of Environmental Assistance
 - ⁷ Bruce Wilson, MPCA
 - ⁸ Hennepin County Water Management Advisory Committee Final Report. Adopted August 20, 1996
 - ⁹ Randy Anhorn, Metropolitan Council
 - ¹⁰ Michael Orange, Minneapolis Planning Department - Environmental Planning
 - ¹¹ William Boudreaux, East Calhoun Community Organization (ECCO)
 - ¹² Susan Young, Minneapolis Department of Public Works, Division of Solid Waste and Recycling
 - ¹³ Jerry Spetzman, Minnesota Department of Agriculture
 - ¹⁴ Jeff Lee, Minneapolis Park and Recreation Board
 - ¹⁵ Jennifer Levison, Nokomis East Neighborhood Association
 - ¹⁶ David Omer, Calhoun Area Residents Action Group
 - ¹⁷ Rhea Sullivan, Linden Hills Neighborhood
 - ¹⁸ Debbie Evans, Linden Hills Neighborhood
 - ¹⁹ Jeff Lee, Minneapolis Park and Recreation Board
 - ²⁰ Rudayna Abdo, Minneapolis Planning Department
 - ²¹ Jay Peterson, Bryn Mawr
 - ²² David Shirley, Cedar Isles Dean Neighborhood
 - ²³ Jeff Lee, Minneapolis Park and Recreation Board
 - ²⁴ Sarah Linnes Robinson, Tangletown Neighborhood Association
 - ²⁵ Lori Mittag, Kenwood Isles Area Association
 - ²⁶ Becky Eaton, Lowry Hill Residents, Inc.
 - ²⁷ Shirley Yeoman
 - ²⁸ Sandra Thorp, Lynnhurst Neighborhood
 - ²⁹ Lynnhurst Neighborhood First Step Action Plan, Revision 2 - October 3, 1996
 - ³⁰ Sandra Thorp, Lynnhurst Neighborhood
 - ³¹ Marianne Shomburger, East Harriet-Farmstead Neighborhood Association
 - ³² Ryan Kragerud, Neighborhood Revitalization Program
 - ³³ Bob Kean, ECCO
 - ³⁴ Joe Horan, Neighborhood Revitalization Program
 - ³⁵ Joe Horan, Neighborhood Revitalization Program
 - ³⁶ Cynthia Osborn, West Calhoun
 - ³⁷ Mike Rardin, City of St. Louis Park
 - ³⁸ David Shirley, Cedar Isles Dean Neighborhood
 - ³⁹ Deb Pilger, Minneapolis Park and Recreation Board
 - ⁴⁰ Mike Carlson, Bryn Mawr
 - ⁴¹ Jeff Lee, Minneapolis Park and Recreation Board
 - ⁴² Sarah Linnes Robinson, Tangletown Neighborhood Association
 - ⁴³ Citizens Advisory Committee Recommendations for the Minneapolis Grand Rounds Parkway System. June 1995
 - ⁴⁴ Jeff Lee, Minneapolis Park and Recreation Board
 - ⁴⁵ Liz Neslund, Ringer Corporation
 - ⁴⁶ Amy Middleton, Citizens for a Better Environment
 - ⁴⁷ David Brant, Sustainable Resource Center
 - ⁴⁸ Carol Teasdale, Global Action Plan
 - ⁴⁹ Marie Zeller, Clean Water Action Alliance of Minnesota
 - ⁵⁰ Jim Wychor, Twin Cities Radio Broadcasting Association
 - ⁵¹ Jeff Lee, Minneapolis Park and Recreation Board
 - ⁵² Ruth Jones, Cedar Lake Park Association
 - ⁵³ Sarah Linnes Robinson, Tangletown Neighborhood Association
 - ⁵⁴ Michael Harley, Minnesota Environmental Initiative
 - ⁵⁵ Paraphrased from the "Mission and Projects" fact sheet of the UEC
 - ⁵⁶ Jeff Roy, Urban Ecology Coalition

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- ⁵⁷ From Testimony of the UEC to the Minneapolis Public Utilities Commission. December 10, 1996
- ⁵⁸ Jeff Lee, Minneapolis Park and Recreation Board
- ⁵⁹ Jeff Lee, Minneapolis Park and Recreation Board
- ⁶⁰ Dale Homuth, Department of Natural Resources
- ⁶¹ Executive Summary, Minneapolis Chain of Lakes Project, Clean Water Partnership
- ⁶² Water Quality Management Citizens Advisory Committee: Report and Recommendations - July 1993
- ⁶³ Water Quality Management Citizens Advisory Committee: Report and Recommendations - July 1993
- ⁶⁴ Water Quality Management Citizens Advisory Committee: Report and Recommendations - July 1993
- ⁶⁵ Mentioned as a potential strategy by John Harrer of Kenwood Neighborhood Association
- ⁶⁶ Executive Summary, Minneapolis Chain of Lakes Project
- ⁶⁷ *Challenge for Limnology in the U.S. and Canada*. American Society of Limnology and Oceanography
- ⁶⁸ Water Quality Management Citizens Advisory Committee: Report and Recommendations - July 1993
- ⁶⁹ Water Quality Management Citizens Advisory Committee: Report and Recommendations - July 1993
- ⁷⁰ Barr Engineering Report submitted to Minneapolis Parks and Recreation, May 19, 1995
- ⁷¹ Barr Engineering Report submitted to Minneapolis Parks and Recreation, May 19, 1995
- ⁷² William Boudreaux, East Calhoun Community Organization (ECCO)
- ⁷³ Jeff Lee, Minneapolis Park and Recreation Board
- ⁷⁴ Michael Harley, Minnesota Environmental Initiative
- ⁷⁵ Proposed as a potential funder by Randy Anhorn with the Metropolitan Council
- ⁷⁶ Recommended as a potential source of funding by Bruce Wilson, MPCA
- ⁷⁷ Paraphrased from the LCMR fact sheet
- ⁷⁸ Laura Johnson, LCMR
- ⁷⁹ Jeff Lee, Minneapolis Park and Recreation Board
- ⁸⁰ The Program is Administered by Jack Frost, Metropolitan Council
- ⁸¹ Jerry Spetzman, Minnesota Department of Agriculture
- ⁸² Recommended as a potential source of funding by Bruce Wilson, MPCA

Appendix II: Organization / Name / Address List

STATE/LOCAL GOVERNMENT AGENCIES state info line: 296 6013

Hennepin County

Minnesota Extension Service - Hennepin County

Bob Mugaas (contact)	374 8400	MES-Hennepin County 1525 Glenwood Ave. Mpls MN 55405	Extension Educator, professor with the Uof M, specializing in horticulture, landscaping, from an environmental perspective.
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Department of Public Works - Environmental Management Division

Janet Leick (contact)	348 6445	Hennepin County/EMD 417 N 5th Street, Suite 200 Mpls, MN 55401-1309	Division Manager - a member of the 1996 Water Management Advisory Committee
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Hennepin Conservation District

Carolyn Dindorf (contact)	544 8572	HCD Suite 240 10801 Wayzata Blvd. Minnetonka MN 55305-1532	Part of the Park Board's Jan 28 '95 Water Quality Roundtable. Referred by Dave Maschwitz.
Don Wodek	544 8572		Don is the District Manager. Referred by David Thill (also with the District).
Ali Durgunoglu	544 8572		Referred by Dale Homuth

Board of Water and Soil Resources (BWSR) - 296 3767

Susan Tsakakis	296 3767	BWSR One West Water Street Suite 200 St. Paul MN 55107	Spoke in detail on 11/14 (see Report).
Jim Birkholz	w 296 0876		
David Johnson (contact)	215 1950		Referred by Susan Tsakakis. David works with Hennepin County and knows more detail about the role of the BWSR with respect to the Chain of Lakes.

Minnesota Pollution Control Agency

Bruce Wilson (contact)	282 2619	MPCA 520 Lafayette Road St. Paul MN 55155-4194	Referred by Steve Heiskary (296 7217) - he was involved in the Chain of Lakes Reports/Mgmt
Patricia Engleking	297 3847		Participant on the Park Board's annual Round table discussion.
David E. Maschwitz, Ph.D.	296-7255		Environmental Scientist: Monitoring and Assessment Section - Water Quality Division.

Minnesota Office of Environmental Assistance (used to be "Waste Management")

Phillip Muessig (contact)	228 1324	MN Office of Environmental Assistance 520 Lafayette Rd. North St. Paul MN 55155	Part of the Park Board's Jan 28 '95 Water Quality Roundtable. Talked in detail - 11/13
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Minnesota Office of Tourism

	296-5029	100 Metro Square 121 Seventh Place East St. Paul, MN 55101-2112	
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Minneapolis Chamber of Commerce

Marilee DesLauiers	370 9181	The Greater Minneapolis Chamber of Commerce 81 South 9th Street Suite 200 Mpls MN 55402	Coordinates the "Leadership Minneapolis Program."
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Minnesota Department of Natural Resources - 729 7900 for Homuth's office; 296 6157 for main office

DNR Regional Office

Dale Homuth (contact) <i>Regional Hydrologist</i>	722-7922	MN DNR 1200 Warner Road St. Paul MN 55106	Member of the 1996 Water Management Advisory Committee.
Molly Shodeen <i>Area Hydrologist</i>	772-7910		Molly Shodeen is a contact of Andrzej's.

DNR Trails and Waterways Unit

Paul Nordell - (contact)	297 5476	500 Lafayette Rd. St. Paul MN 55155-4052	Part of the Park Board's Jan 28 '95 Water Quality Roundtable. Spoke on 11/14. Knows Yvonne H.
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DNR Minniqua Program

Josee Cung		500 Lafayette Rd. St. Paul MN 55155-4052	Part of the Park Board's Jan 28 '95 Water Quality Roundtable
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DNR Minniqua Program

Josee Cung

500 Lafayette Rd.
St. Paul MN 55155-4010

Part of the Park Board's Jan 28 '95 Water Quality Roundtable

Metropolitan Council - 291 6359

Randy Anhorn (contact)	229 3267	Metropolitan Council 230 East 5th Street St. Paul MN 55101	Member of the 1995 Water Quality Roundtable, organized by the Park Board (mailing list printouts)
Keith Buttleman			Director of Environmental Planning and Evaluation
Marcel R. Jouseau	229- 2145		Marcel is Manager of the Water Management Technical Services.

Minnesota Department of Agriculture-Lake Harriet Watershed Awareness Project

Jerry Spetzman - (contact)	297 7269	Minnesota Dept. of Ag 90 West Plato Blvd, St. Paul MN 55107-2094
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Minnehaha Creek Watershed District

Gene Stromen - (contact)	471 0590	15500 Wayzata Blvd. Suite 611 Twelve Oaks Center Wayzata, MN 55391	Referred by Deb Pilger at the Park Board. Correspondence may also be addressed to the "Board of Managers" The Board meets twice a month, on the 2nd and 4th Thursdays.
Pam Blixt	935 8143	same as above	Referred by Amy Middleton in CBE and by Yvonne Hunter and by Ruth Jones (Cedar Lake Pk.)
John E. Thomas		6520 Bayview Excelsior, MN 55331	President
Michael A. Panzer, P.E.			District Engineer with Wenck Associates, Inc. Involved in pumping debate.
Suzanne Weedman			Referred by Susan Tsakakis at BWSR

Barr Engineering

Len Kremer	832 2600	Barr Engineering 8300 Norman Center Dr. Suite 300 Mpls MN 55437
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Bassett Creek Watershed Management Organization

W. Peter Enchk	541 8210	9000 47 1/2 Avenue North New Hope, MN 55428	Chair, Bassett Creek Water Mgmt. A member of the Park Board's Water Quality Round Table, Jan. 28. 1995
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CITY OF MINNEAPOLIS - ADMINISTRATION City Hall: 673 3000

Minneapolis Park and Recreation Board

Jeff Lee (contact)	370- 4900	3800 Bryant Ave. S. Mpls MN 55409	
Deb Pilger	370- 4900	same	Coordinates education and other efforts.

Minneapolis Public Works Department

Jodi Polzin (contact)	673 3626	Rm 203 City Hall 350 S. 5th Street Mpls MN 55415-1390	Engineering Design - Focus on sewer design. Technical staff for the 1993 Citizens Advisory Committee - Lake Water Quality Management report.
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Minneapolis Planning Department

Michael Orange (contact)	673-2347	Rm. 210 City Hall 350 S. 5th Street Mpls MN 55415	Environmental Projects Coordinator - Mpls Environmental Planning.
Roger Van Tassel	673 5816		Inspections - Environmental Section. Referred by Michael Orange.
Tom Frame	673 5807		Referred by Michael Orange
Rudayna Abdo	673 2687		Planner, Southwest Community. Spoke in detail on 11/14. See report.
Laura Lambert	673 2506		Planner, Calhoun-Isles Community (until the end of this year)
Daryl Stokesbary	673 3240		Planner, Nokomis Community

CITY OF ST. LOUIS PARK - ADMINISTRATION

City of St. Louis Park - 924 2500

Mike Rardin (contact)	924 2551	City of St. Louis Park 5005 Minnetonka Blvd St. Louis Park MN 55416	Public Works Director. Referred by Jeff Lee. Mike is part of the implementation team for the Chain of Lakes Partnership. He is the City's water quality contact. Spoke with him on 11/14
Ward Johnson			St. Louis Park Mayor Lyle Hanks appointee for the 1993 Citizens Advisory Committee on Lake Water Quality Management - voting Committee member
Judy Erickson	924 2574		Can supply maps of neighborhoods immediately adjacent to Chain of Lakes area.

LEGISLATURE - ELECTED BODIES

Hennepin County Board of Commissioners

Mark Andrew	348-7883	Mark Andrew A-2400 Government Center Minneapolis, MN 55487-0240	3rd District (includes Chain of Lakes and St. Louis Park) The environment is one of his chief concerns.
Peter McLaughlin	348-7884	Peter McLaughlin	Chair, and responsible for 4th District (includes Lake Nokomis area)
Mary Tambornino	348-7886	Mary Tambornino	6th District - the far eastern end of her district borders on Lake Harriet. Mary is also a member of the 1996 Hennepin County Water Management Committee

Minnesota Senate/House -296 0504

Jean Wagenias, Representative	296 4200	439 State Office Building St. Paul MN 55155	Representative. Resource on ordinances: new regulatory control; strengthen and enforce existing control. Her district includes the lakes. Ref. by Howard Kaibel
Myron Orfield	296 9281	521 State Office Building St. Paul MN 55155	Representative.
Carol Flynn, Senator	296 4274	120 Capitol Building St. Paul MN 55155	State Senator. Ref. by Howard Kaibel. Resource on ordinances - new regulatory control; strengthen and enforce existing control
Jane Ranum	297 8061	306 Capitol Building St. Paul MN 55155	Senator.

Legislative Commission on Minnesota Resources 296 2406

Dave G. Flipp	296 2443	LCMR Rm 65 State Office Bldg St. Paul MN 55155	Assistant Director. Ref. by Howard Kaibel
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Legislative Water Commission (disbanded)

Susan Schmidt	297 7905	300 Centennial Building St. Paul MN 55155	Director. Part of the Park Board's Jan 28 '95 Water Quality Roundtable. The Commission was disbanded as of June 30, 1996.
Dave Bishop	296 0573		

Minneapolis City Council - 673 3000

Sharon Sayles Belton	W	673 2100	3848 Oakland Av. S. Minneapolis MN 55407	Mayor
	H	827 6662		
Pat Scott	W	673 2207	2413 Russell Av. S. Minneapolis MN 55405	Ward 7
	H	374 1173		
Lisa McDonald	W	673 2210	2645 Bryant Av. S. Minneapolis MN 55408	Ward 10
	H	874 7133		
S. Dore Mead	W	673 2211	112 Elmwood Place E. Minneapolis MN 55419	Ward 11
	H	825 9111		
Dennis W. Schulstad	W	673 2212	4009 E. 49th St. Minneapolis MN 55417	Ward 12
	H	722 0685		
Steve Minn	W	673 2213	1922 W. 49th St. Minneapolis MN 55409	Ward 13
	H	925 9505		
Jackie Cherryhomes		522 8039	307 City Hall Mpls MN 55415	Ward 5
Rosemary Dineen William Boudreaux Bruce Bolton Mark Lasoff				All Minneapolis City Council Appointees for the 1993 Citizens Advisory Committee on Lake Water Quality Management - voting Committee members

WORKING GROUPS, COMMITTEES, AND TASK FORCES

Multi-Neighborhood Clean Water Task Force

John Carlson (contact)	381-1954	2122 Penn Ave. S. Mpls MN 55405	Chair of the task force. Referred by William Boudreaux and Peg Mountin. Carlson is President of the Multi-neighborhood Clean Water Task force.
David Shirley			
William Boudreaux			referred by John Harrer, from Kenwood.

Minneapolis Water Quality Education Committee (a citizens committee)

Deb Pilger	370- 4900	3800 Bryant Ave. S. Mpls MN 55409	Main contact address for this committee.
Diane Sullivan	9204735	3835 Vincent Ave S. Mpls. MN 55410-1123	Chair. Not the official contact address for the committee, however. Referred by Deb Pilger of Park Board. Their focus is broad, includes many Chain of Lakes people.

The Chain of Lakes Framework Committee

Maureen Durand	661 4800	Minneapolis Park Board - Planning 200 Grain Exchange 400 South 4 th Street Minneapolis MN 55415	Referred by Jeff Lee. Maureen works in the Park Board's Planning Office, downtown Mpls.
Ward Joyce	825 8010		A CARAG resident, active in the Framework Committee.

Managing the Urban Environment to Improve Water Quality Working Group

Sarah Linnes Robinson	825 8702	c/o Kenny Neighborhood Association 5516 Lyndale Avenue S. Mpls MN 55419	
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Citizens Environmental Advisory Committee (CEAC)

Al Singer	661 4826	3800 Bryant Ave. S. Minneapolis MN 55409	With the Minneapolis Park Board
Jeff Roy	721 1681	c/o Waite House 2529 13 th Ave S. Mnpls, MN 55404	

Environmental Coordinating Team: Water Quality Working Group

Jeff Roy	721 1681	c/o Waite House 2529 13 th Ave S. Mnpls, MN 55404	CEAC Member
Thomas Frame		250 South Fourth Street Public Services Center, Room 300 Mpls MN 55415-1316	Inspector II, with Minneapolis Environmental Section
Bill Anderson		Dept. of Inspections Rm 300 Public Health Bldg 250 S. 4 th Street Mpls MN 55415	Environmental Team Leader, with Minneapolis Environmental Section
Teresa Donkin			Citizens Environmental Advisory Committee (CEAC) Member, Public Citizen Representative
Thomas Dicks	370 2321	U.S. Small Business Association Mail Code 0508 610-C Butler Square 100 N. 6 th Street Mpls MN 55403-1563	CEAC Member, Business Representative, U.S. Small Business Administration
Oren Larson		Room 502, Public Services Center 250 S. 4 th Street Mpls MN 55415	Environmental Health
Jodi Polzin		Rm 203 City Hall 350 S. 5th Street Mpls MN 55415-1390	Engineer II, Minneapolis Public Works
Roger Van Tassel		Dept. of Inspections Rm 300 Public Health Bldg 250 S. 4 th Street Mpls MN 55415	Minneapolis Environmental Section
David Schmidt		5340 44 th Avenue S. Mpls MN 55402	CEAC Member
Jim Forsythe	673 5179	MCDA 105 5 th Ave S., Suite 200 Mpls MN 55401-2534	Project Coordinator, Mpls Community Development Agency

(continued) Environmental Coordinating Team: Water Quality Working Group

Adam Kramer	673 2418	Rm 206 Public Health Center 250 S. 4 th Street Mpls MN 55415	Director, Minneapolis Water Works, Public Works, Water Works
Pam Nelms	673 3817	Rm 510 Public Health Center 250 S. 4 th Street Mpls MN 55415	Minneapolis Department of Health
J. Michael Orange	673-2347	Rm. 210 City Hall 350 S. 5th Street Mpls MN 55415	Minneapolis Planning Department
Karen Sontag-Sattel		212 3 rd Ave Northeast Mpls MN 55413	CEAC Member
Amy Middleton	824 8637	CBE 3255 Hennepin Ave S. Suite 150 Minneapolis MN 55408	CEAC Member, Citizens for a Better Environment

Neighborhood Environment Committee (Sub-committee of the Committee on Urban Environment)

Kelly Rose Jones			Ref. by Yvonne Hunter
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Michael Van Falkenberg: Committee / discussion group

			According to Yvonne Hunter, Michael (a landscape architect) was hired by the Park Board to address issues of redesign for the lakes.
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The Grand Rounds Citizen Parkway Committee (disbanded)

Naomi Loper	378 2095	528 6 th Ave SE Minneapolis MN 55414	Naomi was the Committee Chair. They produced a report in June 1995 - their temporary charge was to examine the role of the Minneapolis Parkway system in the city for environmental and other functions, to look toward the future and to recommend policies. They outlined issues such as shore erosion, path erosion and water quality for both Harriet and Calhoun in their report. According to Jeff Lee, the Committee has been sunsetted (disbanded).
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CITY OF ST. LOUIS PARK - NEIGHBORHOODS

Fern Hill

Cathy Mommsen	928 0843	2656 Raleigh Ave S. St. Louis Park MN 55416	referred by Mike Rardin of the City of St. Louis Park
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Lake Forest

Mr. Lynn Carper	928 9846	4010 Highwood Rd. St. Louis Park MN 55416	referred by Mike Rardin of the City of St. Louis Park
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CITY OF MINNEAPOLIS - NEIGHBORHOODS

East Harriet-Farmstead Neighborhood Association

Shomburger, Marianne	824 9350	3612 Bryant Avenue S. Mpls MN 55409	Neighborhood assistant
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Lynnhurst Neighborhood Association

Sandra Thorp	825 3465	4604 Aldrich Ave. S. Mpls MN 55409	
Howard Kaibel	823 5567	4709 Aldrich Ave. S. Mpls MN 55409	
Jim Hunter	922 0747	2115 W. 52nd St.. Mpls MN 55419	
Yvonne Hunter	922 0747	2115 W. 52nd St. Mpls. MN 55419	Jim Hunter's wife - active with environmental causes - spearheaded the annual Minnehaha Creek cleanup and involved in environmental education in Southwest Minneapolis
Andrea Candlin	925 3023	4801 E. Lake Harriet Pkwy Mpls MN 55409	The Lynnhurst rep. for the Multi-neighborhood Clean Water Task Force.
Jan Del Calzo	827 4240	4801 E. Lake Harriet Pkwy Mpls MN 55409	She was the Lake Harriet Citizens Advisory Committee Chair. Ref. by Howard Kaibel

Linden Hills Neighborhood Council

Debbie Evans	tel fax	926 2700 922 7577	3807 Zenith Ave. S. Mpls MN 55410	Co-Chair of the Natural Environment Task Force (ref. by Rhea Sullivan) see Linden Hills in report.
Rita Rocheford, NRP Staff		673 5151		
Sullivan, Rhea		926 2906	3909 Drew Ave. S. Mpls MN 55410	Rhea is part time coordinator for the Neighborhood.
Paul Thorson		926 7278	4100 York Ave. S. Mpls MN 55410	Co-Chair of the Natural Environment Task Force (ref. by Rhea)

Bryn Mawr Neighborhood Association

Margaret Anderson Kelliher		377-9836	229 Sheridan Ave. S. Mpls. MN 55405	contact person for the neighborhood
Kevin Johnson		377 6241	437 S. Cedar Lake Road Minneapolis MN 55405	NRP Committee Chair
Mike Carlson				voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement

Calhoun Area Residents Action Group / Uptown Association

Ward Joyce	H W	825 8010 290 2491	3433 Fremont Ave. S. Mpls. MN-55408	Active in the Chain of Lakes Framework Committee - is a CARAG resident. Ref. by David Omer
Heidi Mitchell		825 9191	3433 Bryant Ave. S. Mpls MN 55408	CARAG Board President. Ref. by David Omer
David Omer		822 9537		NRP Committee Chair.
Mary E. Lawson				voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement

Cedar Isles Dean Neighborhood Association

David Shirley	(h)	926 8464	2621 Burnham Rd. Mpls MN 55416	President of CIDNA. Familiar with NRP. voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
Pat Provinske				

East Isles Residents Association

Ron Fergle	h	872 7101	1427 W. 27 th Street Mpls MN 55408	on the Water Quality Task Force. Referred by Leon Lang. Sarah Robinson also mentioned that he is on the "Chain of Lakes Advisory Group" - "Managing the Urban Environment to Improve Water Quality."
Leon Lang	(h) (w)	871 1528 340 2102		
Nancy Gross		872 7101		Active on the Task Force / environment. Referred by Leon Lang.
Pat Eagan		377 7686		NRP Committee Chair

ECCO - East Calhoun Community Organization

Nick Kakos		825 9709	3240 Humbolt Ave. S. Mpls MN 55408	Chairman of the Steering Committee
Bob Kean (contact)		827 7216	3136 James Avenue S. Mpls MN 55408	Chairman of the Task Force on Environmental Issues, referred by Nick Kakos
Sara Baker		822 8899		NRP Committee Chair
Tom Bailey				voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
William Gilbraith				voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement

Field, Regina, Northrop Neighborhood Group

Joe Horan, NRP Staff		673 5144	NRP Crown Roller Mill Bldg. Rm 425 105 5 th Ave. S. Mpls MN 55401	He is NRP staff. According to Joe, there is no group or committee dealing with water quality in this neighborhood group.
Harvie Rucker				Current Board Chair. He can be reached through their staff person, Stephanie Schmidt- 721-5424

Fulton Neighborhood Association

Mary Main		922 3106	5105 Beard Ave. S. Mpls MN 55410	contact person
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Tangletown Neighborhood Association

Sarah Linnes Robinson		399 1721	P.O. Box 19347 Diamond Lake Branch Mpls MN 55419	
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Hale, Page, and Diamond Lake Community Association

John McNicholl	291 6490 866 4463	5641 Clinton Ave. S. Mpls MN 55419	Ref. by Glen Pfeiffer. Interested in environmental issues.
Glen Pfeiffer	824 7707		
John Halbert	vm 335 8178 w 339 9786 h 822 6958		Current Chair
Kay Hewes	823 4721		referred by Glen Pfeiffer - interested in environmental issues

Nokomis East Neighborhood (Keewaydin, Minnehaha, Wenonah, Morris Park)

Vicki Bonk	727 3562	5629 45 th Ave. S. Mpls MN 55417	referred by Jennifer Munt. She is Nokomis' Environmental Task Force Expediter.
Jennifer Munt	724 5652		
Dave Schmitt	724 2484		referred by Vicki Bonk
Martin Conroy	724 2950		NRP Committee Chair

Kenwood Isles Area Association

Marisa Rodriguez		2914 Clinton Avenue S. Mpls MN 55408	contact person (neighborhood staff member)
Lori Mittag	377 5572		NRP Committee Chair
Jeff McNaught			voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
John Harrer	377 8959	1948 Sheridan Ave. S. Mpls MN 55405	

Lowry Hill Residents, Inc.

David Lilly	377 5346	1924 Irving Ave S. Mpls MN 55403	President of the Association. Ref. by Jack Whitehurst
Jack Whitehurst	673 5143		NRP staff
Becky Eaton	H 377 1150 W 945 6512		Chair of the NRP Committee. Ref. by Jack Whitehurst

Standish Ericsson Neighborhood Association

Karron Perry	721 1609	4000 28 th Ave. S. Mpls MN 55406	
Shirley Yeoman	721 1601		Neighborhood Staff Member
Carmen Schluder			Chair of the neighborhood Parks and Environment Committee. Ref. by Shirley Yeoman.
Carla Nielsen			NRP Committee Chair

West Calhoun

Joan Willshire	(w) 520 0234 (h) 924 0386	3150 Excelsior Blvd Mpls MN 55416	Neighborhood contact.
Cynthia Osborn (contact)	929 8000		NRP Committee Chair - referred by Joan Willshire.

CITY OF MINNEAPOLIS - BUSINESS ASSOCIATIONS and BUSINESSES

Cargill - Program called "Water Matters" 742 6000

Joy Webster Peterson	742 6246	Cargill Public Affairs/50 Office Center Minneapolis, MN 55440- 5650	Ref. by Sarah Linnes Robinson
Liz Paetow	742 2546		Colleague of Joy Peterson's
Bev Youness	742 7412		A volunteer on Cargill's Civics Council

Cairn and Associates - *The Watershed Resources Youth Stewardship Project*

Susan and Rich Cairn	722 5806	3533 44th Avenue South Mpls MN 55406	on the Park Board's Water Quality Roundable, Jan 28 1995.
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Independent consulting firm on water quality

Steve McComas	690 9602	Blue Water Science 550 S. Snelling Ave. St. Paul MN 55116	Owner of own consulting firm in water quality, lake management and lake restoration.
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Ringer Corporation

Mr. Pat McGinnity	703 3300	Ringer Corporation 9555 James Ave. S. 200 Bloomington MN 55431-2543	Referred by Liz Neslund of the same corporation. Liz said Pat might know of past involvement in water quality issues. Ringer was listed as part of the water quality Round Table in 1995.
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Guse Hardware

Marion Anderson	824-7655	4602 Bryant Ave S. Mpls MN 55409	on the Park Board's Water Quality Roundable, Jan 28 1995
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Fulton Business Association

Karen Rumpza, Chairperson	925-2454	c/o Needlework Unlimited 3006 50th Street W. Minneapolis, MN 55410	Andrzej Kozlowski attended their meeting on Tuesday night, November 19, to brief them on the Lynnhurst interest in water quality. They were very receptive to the project, and were interested in participating in any future community-wide meeting on water quality.
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Linden Hills Business Association

David Luger, Chairperson	w 925-3901	c/o Century 21	
	h 925 6887	4536 France Avenue S. Edina, MN 55410	

Nokomis Village Business Association

Suzanne Thorton, Chairperson	724-1406	c/o Nokomis Shoe Shop 4950 34th Avenue S. Minneapolis, MN 55417	
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South Hennepin Business Association

Arnold Zuckman, Chairperson	374-8049	2719 Humbolt Ave. Mpls MN 55408	Their next general meeting is in January. Potentially interested in water quality and would like to be kept up to date.
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Uptown Business Association

Cari DeWall, Community Coordinator	823-4581	3013 Holmes Avenue Minneapolis, MN 55408-2628	
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Southwest Community Business Association

Ed DonFrancesco, President	821-4206	c/o Edina Realty 5309 Lyndale Avenue S. Minneapolis, MN 55419	
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NON-PROFIT/VOLUNTARY ORGANIZATIONS**Sustainable Resource Center**

Sue Gunderson	872 3298	1916 Second Ave. S. Mpls, MN 55403	Executive Director
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Clean Water Action Alliance of Minnesota

Marie Zeller (contact)	623 3666	CWA 326 Hennepin Avenue E. Minneapolis MN 55414	Organizing Director
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Ginny Yingling			Director. LM 11/15
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Frank Hornstein	227 9660		On the Park Board's Clean Water Roundtable - Jan 28, 1995
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Rachel Lord	227 9660		On the Park Board's Clean Water Roundtable - Jan 28, 1995
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The Alliance for Metropolitan Stability

Lisa Doerr	824 8637	c/o CBE 3255 Hennepin Ave S. Suite 150 Minneapolis MN 55408	Lisa is with Citizens for a Better Environment. Ref. by Sarah Linnes Robinson.
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Minnesota Technical Assistance Program "MINTAP" (627 4646)

Cindy McComas	627 4646	MINTAP 1313 5 th Street SE Suite 207 Mpls MN 55414	Director. Ref. by Phil Muessig of MN Off. of Environmental Assistance as potential players in Clean water issues.
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American Rivers

Albert Andrews			Board member of this national organization, living in Mpls. Lawyer. ref by Yvonne Hunter
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Martha Brandt			Board member, living in Mpls. Lawyer. ref by Yvonne Hunter
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Global Action Plan

Carol Teasdale	824 2433	3318 Hennepin Ave Minneapolis MN 55408	Program Director
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Minneapolis Aquatennial

Jamie Lowe	331 8371	Minneapolis Aquatennial 43 S.E. Main Street Mpls MN 55414	Chief Operating Officer
Denny Schulstad			Commodore (spokesperson) - a City Council Member

The Watershed Partners

			Judi Polzin mentioned them. Their focus is more on the Mississippi River, but some of their constituents/partners may have a stake in the Chain of Lakes.
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Twin Cities Radio Broadcasting Association

Jim Wychor	926 9123	3517 Raleigh Street St. Louis Pk, MN 55416	
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The Cedar Lake Park Association- 377 9522

Ruth Jones			voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
Laurie Lundy (w)	377 9522	Save Cedar Lake Park 1101 Cedar View Drive Minneapolis MN 55405	

Local Chapters of the National Audubon Society

Mary Ellen Vetter (contact)	291 2596	P.O. Box 3801 Mpls MN 55403	Part of the Park Board's Water Quality Roundtable. She is President of the Audubon Chapter of Minneapolis.
Don Arnosti			Director. Ref. by Yvonne Hunter
Chet Meyers	291 2596		voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
Georginnia May	822 4721	609 E. 53rd St. Mpls., MN 55405	Part of the Park Board's Water Quality Roundtable.
Beth Oshwald	824 1590		interested in Chain of Lakes water quality issues
Mary McGee	377 0630		interested in Chain of Lakes water quality issues
Nancy Goetzinger	866 8686		With the Minnesota River Valley Audubon Club (ref. by Sharyl Miller)

League of Women Voters- 338 1300

Kathleen McCormick	338 1300	League of Women Voters 406 Linden Hills Blvd. Mpls, MN 55410	voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
Jill Hurst	927 8563		
Teresa Donkin(Cit. Env. Com)	827 6481	15 W. Minnehaha Pkwy Mpls. MN 55419	On Park Board's Water Quality Roundtable

Citizens for a Better Environment

Amy Middleton	824 8637	CBE 3255 Hennepin Ave S. Suite 150 Minneapolis MN 55408	
Judith Laeke	824 8637		Referred by Phillip Muessig at MN Office of Environmental Assistance.

The Nature Conservancy, MN Chapter

Kim Chapman	331 0750	TNC - MN Chapter 1313 SE 5 th Street Mpls MN 55414	Director, Science and Stewardship Ecology. On Park Board's Water Quality Roundtable, Jan 1995.
Nelson French	331 0750		State Director, MN Chapter. On Park Board's Water Quality Roundtable, Jan 1995

Minnesota Horticulture Society

Dorothy Johnson	643 3601	1755 Prior Ave N. Falcon HeightsMN 55113	Executive Director. Part of the Park Board's Jan 28 '95 Water Quality Roundtable
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Minnesota Nursery Landscape Association

Bert Swanson	633 4987		On Park Board's Water Quality Roundtable, Jan 1995
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Sierra Club

Charlie Fried	379 3853	Sierra Club 1313 SE 5 th Street Minneapolis MN 55414	Part of the Park Board's Jan 28 '95 Water Quality Roundtable
Kristine Strodthoff			voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Management
Bret Smith			A Lynnhurst resident (ref. by Yvonne Hunter)

Minnesota Public Lobby

Katherine Christianson (w)	922 2852	2918 West 39 th Street Mpls MN 55410	
Gary Wagner			voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
Norm Newhall	378 0285		Part of the Park Board's Jan 28 '95 Water Quality Roundtable
Terri Palmquist	378 0285		Part of the Park Board's Jan 28 '95 Water Quality Roundtable

Urban Environmental Education

Jeff Roy	721 1681	c/o Waite House 2529 13th Ave S. Mpls MN 55404	Part of the Park Board's Jan 28 '95 Water Quality Roundtable
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Design Center for American Urban Landscape

Mary Morse	872 3288		Part of the Park Board's Jan 28 '95 Water Quality Roundtable
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Landscape Arboretum

Mike Zins	443 2460	3675 Arboretum Drive Chanhassen MN 55317	Part of the Park Board's Jan 28 '95 Water Quality Roundtable
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Minnesota Sailboarders Association (no listing)

Booker Brooks Wendy Jedlicka			voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
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Minneapolis Chain of Lakes Association (no listing)

Joyce Hansen			voting Committee member-1993 Citizens Advisory Committee - Lake Water Quality Mangement
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Minneapolis Solid Waste and Recycling

Susan Young	673 2433	309 Second Avenue S. Mpls, MN 55401	Part of the Park Board's Jan 28 '95 Water Quality Roundtable
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Minnesota Environmental Initiative

Michael Harley	334 3388	MEI 527 Marquette Ave. S. Mpls MN 55402	Director. One of the Park Board's Round Table participants.
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Freshwater Foundation

Tim Burkhardt	449 0092	Freshwater Foundation 725 County Road 6 Wayzata, MN 55391	
Richard Gray (Grey)			

Muskie, Inc.

Smokey Swenson	522 9744	4023 Girard Ave. N. Mpls MN 55412	non-voting Committee member-1993 Citizs Advrsy Committee - Lake Water Quality Mangement
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Urban Ecology Coalition

Jeff Roy	721 1681	c/o Waite House 2529 13th Ave S. Mpls MN 55404	
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Additional Human/Intellectual Resources for the Project

PEOPLE

Sarah Lynnes Robinson			Community mentor for the project. She has done work with the Kenny neighborhood. She can provide insight on the community process. She has been active with the Urban Ecology Coalitio
Jerry Vandelac	673 3245		GIS - City of Minneapolis - custom-made and data
Mark Heyes	878 2199		Calhoun is phosphorus rich; Harriet is nitrogen rich; his solution is to have them cut the weeds out of the lake periodically, and stir up the bottom periodically to trap the phosphorus/nitrates in the plants - to be payed for by the Mpls Parks and the "Lake Harriet Association"
Mountin, Peg	673 5102		NRP for Kenny. Spoke on 10-14
Bob Mugaas	874 3400	1525 Glenwood Avenue	Extension Educator, professor with the Uof M, specializing in horticulture, landscaping, from an environmental perspective
Jan Del Calzo	827 4240		"activist" - she was the Lake Harriet Citizens Advisory Committee Chair
Eileen Roberts			Professor of law at William Mitchell College of Law and former chair of the Minneapolis Environment Commission, has been an active participant in the Chain of Lakes Project. (referred by Bob Mugaas)

PLACES

University of Minnesota - Limnology

U.S. Geological Survey

Freenet -<http://freenet.msp.mn.us/city/>

THE MAJOR PLAYERS:

Multi-Neighborhood Clean Water Task Force

The Environmental Coordinating Team's Water Quality Work Group