

This is the list of resource concerns and the project goals that were developed from a recently completed project for the Holmes Lake Watershed in Lincoln, NE

Issue Identification and Prioritization: In facilitated small group sessions at the second public meeting, attendees generated lists of concerns, issues, and opportunities that they felt should be addressed in a watershed management plan for Holmes Lake. Many participants identified increased recreational opportunities as a priority topic. The concerns identified by the small groups were compiled into a comprehensive list, and posted on the wall in order that the entire group might prioritize the topics for action.

The public meeting participants identified a total of 22 issues and concerns about Holmes Lake and the surrounding watershed. Each person was given 10 “sticky dots” which they could place next to the issue(s) about which they felt most strongly. The technical advisory team combined some similar issues in groups, in order to prioritize the water quality concerns that would be addressed in the management plan. The entire list of issues and concerns was forwarded to LPRD for further consideration (see below).

| | |
|---|----|
| • Recreation development | 42 |
| • Long term protection of water quality for recreation and wildlife | 27 |
| • Enforce existing erosion and sediment control regulations or strengthen them... | 23 |
| • Maintaining flood control during excavation of lake | 19 |
| • Public Education | 18 |
| • Management of greenways | 18 |
| • Animal waste in general and from the dog run | 17 |
| • Sedimentation | 13 |
| • Loss of lake’s ability to support fisheries | 13 |
| • Storm water quantity and quality | 10 |
| • Erosion in general and stream bank erosion | 9 |
| • Where will dredge piles be deposited | 7 |
| • Loss of aquatic habitat | 6 |
| • Improvements in forestry | 6 |
| • Wetland loss | 4 |
| • Trash | 4 |
| • Bioengineering instead of concrete drains | 4 |
| • Effectiveness of filter ponds | 4 |
| • Existing septic systems | 3 |
| • Funding for action items | 2 |
| • Excavation of lake by section..... | 0 |
| • Involve city planners when developing the watershed | 0 |

Project Goals. From the list of concerns and issues, five primary project goals were established:

1. Enforce existing erosion control rules or strengthen them, and implement erosion control in the watershed, including stream banks.
2. Implement a public education program targeting the impact of pet wastes and lawn care (fertilizers and pesticides) on water quality.

3. Implement policies that will provide long-term protection of water quality for wildlife habitat and recreation, including developing a program to assist homeowners with the management of out lots.
4. Maintain flood control for the watershed.
5. Improve the fisheries in the lake.

This is the list of resource concerns and the project goals that were developed from the ongoing project for the Carter Lake Watershed

Water Level

Water level (20)

- Dredging
- Reestablish water depth
- Increase natural springs
- Education

Water Depth (11)

Level stability (10)

Water level (stable) (lack of depth) (8)

Water clarity and quality (7)

Stable Water level (7)

Water clarity (5)

Lack of water quantity control (5)

Lake deeper (4)

Parts of lake too shallow (2)

Too much water

Too little water

Managing runoff for Lake water level

Water Quality

Water quality (9)

- Fertilizers – nutrients
- Toxic algae
- Pet waste
- Turbidity
- Education

Water quality (9)

- Clarity
- Fish edible

Water clarity (7)

Algae blooms (1)

Stormwater quality (1)

Unstable shorelines (1)

Stormwater inflow quality (1)
Improve the cleaning function of the stormwater retention cells
Would like to see more raingardens
Clean watershed
Septic tanks

Lake Stewardship

Stewardship (ownership) of the lake (9)

- Trash
- Overuse
- Reckless users
- Education

Trash (public/private) (3)
Lack of law enforcement for lake regulations (2)
Aesthetic lake important (1)

Park Issues

Reduce access points to Levi Carter Park (8)
Park law enforcement (5)

Shoreline Issues

Shoreline aesthetics and stability (5)
Clean and enhance the sw shoreline (3)
Shore stabilization (3)
Clean shoreline and lake bottom (3)
Patrolling the shoreline (2)

- Dumping and other water quality problems – Omaha/Carter Lake partnership

Trash dumping (1)

- Close 11th st. access
- More trash collection in park

Trash
Secure trash cans

Wildlife and Fisheries

Eagle habitat protection (4)
Wildlife habitat and fishery (3)

- Rooted plants
- Turbidity
- Education

Preserve wildlife habitat and variety (3)
Lack of avian observatory (2)
Rough fish (preserve variety) (2)

Eagle friendly lake (1)
Quality fishery
Contaminated sediments (fish tissue)
Quality fishery/fish management
Lack of fish habitat
edible fish from a quality fishery
Phragmites
Lack of angler access

Safety Issues

Canal opening depth and pilings hazard (3)
Improve the lighting all around the lake (2)
Enforcement/safety (2)
Safer boat ramps (2)
Boat ramps need to be improved –too short (1)
Safety around boat ramps and docks (1)
Insufficient Park lighting (1)
Types of watercraft
Safe Play ground equipment
Pull out old pilings
Boat traffic safety/education
Insufficient hazard marking

Other Issues

Island restoration/protection (6)
Lack of information and education (4)
Long term maintenance of improvements (4)
Lack of Frisbee golf course (2)
Lack of bike path (1)
Transient population (1)
Modern restrooms (1)
Watershed resident education (1)
Lack of respect for other equipment
No public beach – unused bldg?
Recreational trail around the lake
Lack of excursion boat
Lack of tourist attraction
Clean up the island

**Carter Lake
Water Quality Goals
6/5/2007**

Goal 1. Achieve A “Full Support” Status For The Aquatic Life Use

Objective 1: Increase growing season median water clarity from 16 inches to 30 inches

Objective 2: Reduce growing season in-lake total phosphorus from 153ug/l to 75ug/l.

Objective 3: Reduce growing season in-lake total nitrogen from 2,140ug/l to 409ug/l.

Objective 4: Decrease growing season median chlorophyll *a* concentrations from 59mg/m³ to 21mg/m³.

Objective 5: Maintain water column average dissolved oxygen above 5.0mg/l throughout the year.

Objective 6: Maintain healthy diverse aquatic habitats that support balanced populations of fish, herps and invertebrates.

Goal 2. Reduce Contaminant Levels In Fish To “Safe” Levels

Objective 7: Reduce and maintain contaminant levels below water quality standards in the Carter Lake inflows.

Goal 3. Maintain A “Full Support” Status For The Recreation Use

Objective 8: Maintain E.coli bacteria concentrations below 235 col./100mls during the recreation season.

Objective 9: Maintain algae toxin concentrations below 7 ppb for all 22 weeks of the recreation season and prevent level of algal toxins above 20 ppb in any measurement.

Goal 4. Maintain A “Full Support” Status For The Aesthetic Use

Objective 10: Keep the lake and park area free of trash and junk.

Objective 11: Stabilize areas of eroding shoreline.

The resource concerns from the 1st public meeting at Lake Manawa

WATER QUALITY - 154

| | |
|---|----|
| Creek silting basin (drain basin for Mosquito Creek - natural filter | 25 |
| Stability of water level | 17 |
| Water quality - turbidity, fishing, boating, swimming | 16 |
| Dredge | 13 |
| Dredge/better fishing | 13 |
| Dredging - FAST | 10 |
| Remove as much silt as possible | 10 |
| Storm sewers - near lake and also surrounding areas | 9 |
| Water quality | 8 |
| Shoreline riprap entire lake | 8 |
| Water clarity/dredging | 6 |
| Algae free | 5 |
| Turbidity/dredge | 4 |
| East side need storm sewers | 2 |
| Shore stabilization | 2 |
| Water flow (ingress/egress) - Mosquito Creek, Indian Creek, surface water flow, ground water flow | 2 |
| Water level mtce - Mosquito Creek | 1 |
| Rain gardens | 1 |
| Improve fishing | 1 |
| Shoreline stability during/after dredge? How close to shore | 1 |

CAMPGROUND - 36

| | |
|---|----|
| Moving campground | 12 |
| Do NOT move campground | 8 |
| Campground (move to North side of lake) | 6 |
| More camp area | 6 |
| Move campground/planning IA West Grant | 3 |
| Fundraising activities to improve campgrounds | 1 |

ENFORCEMENT - 42

| | |
|---|----|
| Rules enforcement - park, campground, water | 11 |
| Enforce laws for water and land | 10 |
| Enforcement (boating safety, etc.) | 5 |
| Park law enforcement | 5 |
| More officers - resident ranger | 4 |
| Water law enforcement coverage | 4 |
| Checkpoint into park checked for alcohol/drug | 2 |
| Close gates on time | 1 |

SAFETY - 69

| | |
|--|----|
| Safety in park/campground maintain water level | 11 |
| Water safety/boating | 10 |

| | |
|---|---|
| Consider boating limitations (speed tips or some other measure) | 8 |
| No duck hunting on lake | 8 |
| Widening roads/improving shoulders/bike path & walking trails along the lake/safety on the roads on west side | 7 |
| Lighted walking trail/bike trail/playground | 6 |
| 24-hour DNR/Manawa contact number | 6 |
| Neighborhood watch "safety issues" | 5 |
| Limit number of boats | 4 |
| Better signs/buoys for hazards | 3 |
| Swimming in non-swimming areas | 1 |

PARK USER FEE - 49

| | |
|--|----|
| Change user fee/restrict number to use lake | 16 |
| Park user fee/sticker to provide park services | 14 |
| User fee | 9 |
| Entry fee | 7 |
| Money making projects - pay parking | 3 |

LITTER CONTROL - 26

| | |
|---|---|
| Litter control | 8 |
| Park area add more garbage cans | 2 |
| Steel/metal/glass trash in lake - old cars in water | 7 |
| Trash cans/service | 5 |
| More trash cans | 2 |
| More trash cans in camp/picnic areas | 2 |

MISC. - 67

| | |
|---|----|
| Buy fuel on the lake | 12 |
| Market the good things (but keep it secret)/educate the public | 10 |
| Multiple pollution from power plant (noise) | 10 |
| Insect control | 6 |
| Air quality of Manawa | 6 |
| jazz concerts/movie night | 5 |
| Waterfowl protection | 4 |
| Maintenance of public property adjacent to private or across the road | 3 |
| Land useage/ensure proper mix | 3 |
| Rent boating stuff | 2 |
| Iowa West community involvement | 1 |
| Google - donation | 1 |
| Reduce/control growth of parking lots | 1 |
| Wildlife appreciation and preservation | 1 |
| Park image and reputation | 1 |
| Lake housing covenant | 1 |

CAPITAL IMPROVEMENTS - 55

| | |
|--|----|
| DNR run marina/snack bar | 10 |
| Bike trail around lake connect to Boy Scout Island | 9 |
| New entrance at 11th St. | 9 |

| | |
|---|---|
| Size of culverts (for boat access) | 7 |
| Entry road 11th St. vacant lot | 7 |
| Bike paths/walking along streets | 6 |
| New entrances | 5 |
| Road improvements | 4 |
| More boat docks | 3 |
| Add bike trails around lake | 3 |
| Biking/walking trail around lake along road | 3 |
| Permanent restrooms/more picnic shelters | 2 |
| Acquire land when available | 2 |
| Add public restrooms | 2 |
| Restroom facilities for boaters | 2 |
| Cement picnic tables | 1 |
| Bike path near lake | 1 |