TY LE 1980 NEWSLETTER ASSOCIATION

CONSTRUCTION GRANTS PROGRAM

In the newsletter sent just before Christmas we described the manner in which our Association has applied for allocations in the Cosntruction Grants Program to have every septic system around the lake brought up to standards, with federal and state funds paying for 90% of the costs — in some cases up to 96%. Our application was favorably received by the Minnesota Pollution Control Agency, and we are keeping in touch with the officials there who administer these grants for Minnesota under authority of the Environmental Protection Agency in Chicago. They tell us that our application passed the first hurdle and that we have been placed on the Municipal

There are many hurdles ahead, and it could be several years before we conclude firm agreement with the EPA. Right now the funds are frozen, but this is not usual in an election year. It is expected that "business as usual" will resume after November. A recent change in policy requires greater "public participation and it is quite possible that we will be required to hold some public meetings this summer to maximize the extent to which our participants are informed. are many hurdles ahead, participation," ic meetings here is not unresume

TEN MILE RATES HIGH IN WATER CLARITY

bodies you're dies of water among those who bel who believe you probably that Ten are Mile Lake right on target ranks as one of the cleares

Test data on ly from the I Minnesota Pollution Control of the lakes monitored in trol Agency on 121 Minnesota in 1979 had greater clarity lakes than indi

average transparency depth for Ten Mile cording to the MPCA, that figure means six clearest lakes among those studied than at least 95 percent of the lakes si ding to the MPCA, that figure means Ten Mile Lake during that period was 17 feet. Acclearest lakes among those studied in 1979, but it also had better water clarity n at least 95 percent of the lakes studied since 1973.

The Association is cooperating with the MPCA's Citizen Lake I will continue to do so. Credit for our participation goes to single-handedly has taken Secchi disc readings virtually the temperature and dissolved oxygen readings at various depths. tion is forwarded to the MPCA. to Warren Goss year around, as he h All of this informa Program as he has al mos and

figures the transparency reading had to be more than 30 the ice, lowered the Secchi disc down into the water as far as he reports, incidentally, that in February of this isc to the end of its 27-he could, and the disc single that the could in the course that the course the cou 27-foot cord, sc still was p year he feet. d, plunged his arm plainly visible. chopped a He

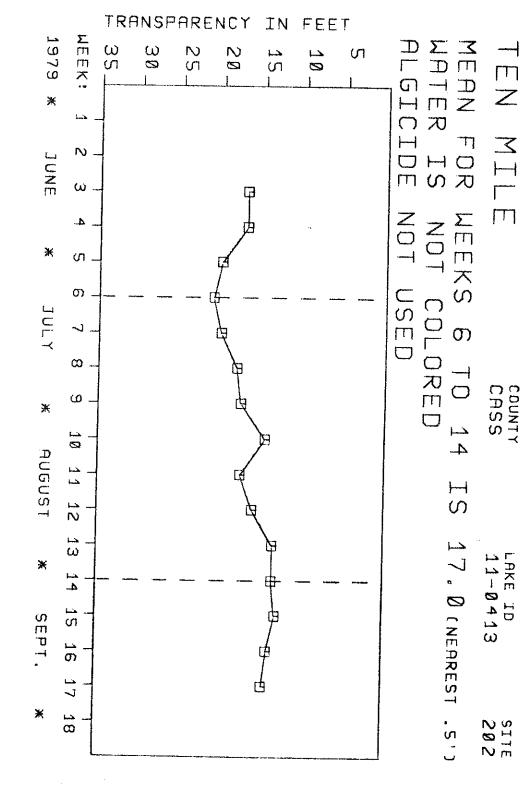
feet on May for the early ---and 18 part of the feet on on May 15. are similar ťo tho se ٥f þa ~

1979 monitoring program. reproduced on the next page demonstrates how Ten Mile Lake "stacked up"

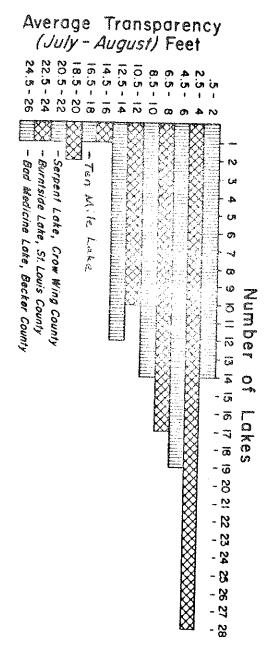
Mile Lake is deteriorating from pollution or other causes. The FMC Corporation conducted limnological surveys for four years commencing in 1975, from which we acquired great quantities of analytical and biological data which are proving useful to us now in seeking federal and state funding under the Construction Grants Program to upgrade all substandard septic systems. Last year the Minnesota Pollution Control Agency took over these studies and had the analytical work According Minnesota Board of Health.

Without going that Ten Mile into Lake is a great Lake detail,), we can summarize t s still in excellent c deal of year-around -around the data obtained thus t condition. The variond work and include: various far tests þγ concludbeing

- place) during rofiles the every of temperature winter week or so in the ice-free (from the surface season to the bottom at the and about once വ deepes
- 2 rofiles of dissolved oxygen simultaneous ₹ ٤ 5 the profi les of



To see how your 1979 program, co with the graph o ur lake fits compare its h of average lake in with others in the "mean for weeks 6 to transparencies below. ne o 14"



Distribution Cifizen 0 ဖ Monitoring Lake Transparencie Program

Figure 1

LAKE MONITORING - continued

- w of conductivity, which closely related ť total hardness.
- 1 ecchi readings asionally (clarity) in the wir y) approximately winter. every week the
- Ų, gen also determination so color of t the ons water, of the concentration approximately ons fou o t phosphorus r times each each and nitro-
- O\ leve] approximately every week durina free

7 as part of the Climatologist. recipitation, s part of the Deep daily Portage the ice-free Weather r network and monthly administered during 49 the the winter tate

 \circ f deposited. bottom Many other either by other tests could (and in some cases probably should) be run, but we have the facilities or volunteers or both. An example is fecal coliform. The important but difficult study needed is paleontologic examinations of the tom in one or more deep holes. It is here that decaying algae and other tter accumulate, and we don't know jsut how fast this mass of gooey muck the cosited. It is no doubt caused partly, and maybe principally, by the decaying algae nourished by nutrients from our septic systems. xaminations of the lake algae and other organic of gooey muck is being by the deposition we lack An

<u>x</u> € σ Ф upward into roblem is limit Lake because it is so deep where of so little evidence of these deposits of because it is so deep where the muck collects, and consequently there i the extent to which constituents of the bottom muds can find their way o the photic zone where their presence is or would be very harmful. The much more serious in shallower lakes. there is This

Lake remains in excellent condition, we must remain averaged constantly, albeit slowly, and that the evidence spots where we don't see it and can't readily measure although it S. reassuring to observe by our the evidence is far down in the ly measure it. remain aware monitoring programs that deterioration that Ten Mile deep does

SHERIFF'S WATER PATROL PROMOTES SAFETY ON TEN MILE LAKE

safety arrests if necessary, but when violations occur he prefers cussion with the offender and warn against repetition of t as well as courteous conduct on the water. the Sheriff's He is deputized Water Patrol to promote is deputized and will make fers to have a friendly di the improper behavior. dis-

espect to water safety and boating courtesy.
ions that will result in arrest and fines -our ambition that Ten Mile continue to be very Here known large is a as fines an outstanding lake with list of watercraft violain many instances

9 3116 permission for cie operation o_f an uniicensed watercraft

Failure to display valid registration

ð notify Commission of transfer of watercraft ownership

Commissioner watercraft out of condition, without legal equipment as prescribed γd

Operate (you are watercraft responsible for your manner wake in (e) disregard for rights 9 safety of.

airplane a watercraft SO as intentionally to obstruct ç interfere ٤.

മ watercraft within 150 feet o_t a diver's warni рg flag

Ö a another watercraft 9 damage to property __`` __` a grossly negligent of another 9 reckless manner SO Ð ŝ to O ause

Operate watercraft without proper equipment

operation 9 operate watercraft after suspension of license

٤ person 13 person aboard yrs. or younger to operate watercraft propelled βy over 1-푸

Hilegally obstruct navigation or moor to chann ē

Operate watercraft in marked swimming area

without observer Hlegally operate 9 ۵ curved mirror watercraft while towing g waterski e 윽 S imilar devic

Operate a engaging Ø than a watercraft | in similar a one and t or being activity) one-half hours towed more d by a than c before a watercraft one and onesunrise raft whi ⊤ e waterskiing hours after s sun Ŷ,

Operate QJ watercraft with persons riding on gunwales, deck Mod 9 transom

Operate watercraft while under the influence of drugs 윽 alcohol

0 ailure accident to stop ţ p watercraft when sheriff (hit and run) involved in an accident; failure ç make report

to have legal life saving devices on board Wat O O

Operate watercraft without legal lighting equipment

Operate a watercraft without a horn or whistle

Operate a watercraft without a muffler

മ watercraft without മ device for arresting backfire

യ watercraft without legal fire extinguisher/ventilation

sponsor race, regatta, etc., without permit -1 rom the sheriff

Illegally place a hazard to navigation in water

Illegally remove, damage or destroy buoys

۳ buoys prescribed by 9 other Commissione markers in waters not conforming to

Illegal scuba diving

0 9 permit operation of watercraft with ma ٦, ne to: æ not approved ş

action, so Call Duke Walker Duke (Darwin) Gray at 6 r at 547-1424. impor tant that hat the officer see delay one minute in) Gray at 675-6857. the offense himself in reporting illegal acts If you get no answer, order to that are call the order occurrin Sheriff take correc

CLEAR WATER TOMORROW? IT'S UP TO YOU!

a) already report elsewhere in t challenge to all of u lready good situation. in this newsletter on Ten Mile of us to do everything we can to do everything we can to maintain or even Here are some pointers that can help do do newsletter on Ten Mile Lake's water clarity even just that: improve represents an

- graded. the ord (100-foot setback from the shoreline, botthe water table, the tank itself to be of ordinance. Your township zoning officer bottom of trenches a minimum of 4 teet auo e of water-tight construction), have it upconform to the Cass County zoning above ç
- -- Do not fertilize your lawn. At least 90 pread on a lawn will find its way into the lake reshwater Biological Institute. That, of cours process continues, an increase in algae least 90 percent of any course , according to means lake to scientists at the enrichment fertilizer and, that is
- quality) cleanings and other Jou as well. use the lake refuse as ن۵ a garbage pit. in the lake, . It's not only
 it's detrimental unlawful to ö water clarity deposi

REPORT NEW LAKE RESIDENTS TO MRS. BAIR

ship r membership ip stood at 4 s recently pu names SO t 416 in mid-May. If you have new lake neighbors or know operchased property on Ten Mile Lake, call Mrs. Bair at 67 she can get in touch with them about possible Association chairperson, Mrs. ff you have reports that the Association's member rs or know of anyone who Bair at 675-6459 with membership.

PUBLIC CAN CALL DNR TOLL-FREE

convenience Department venience of of Natural Resources now has those who wish to contact ag agency a toll-free oll-free telephone number officials with problem o <u>Q</u> for complaint

30 number can be called from a p.m. no expense to from anywhere to the caller. ٦, St. Paul, the to in Minnesota toll free Q between number the hours s. 800-652-9067 s of 8 a.m. a of

ployee personnel answering the phes the name and phone number look into the matter ber of the c and return e caller a the call. and provide have ψ. the he desired information knowledgeable agency 0

FINGERLINGS ARE BEING RAISED IN JAKE'S POND AGAIN THIS

and use the a year. two of newsletter <u></u> them in alternate years. has also been suggested ₩. mentioned consideration that Here are some thoughts we might want we locate being given a second rearing pond to let Jake's Pond

- Prof. James C. Underhill, who is a world-renowned expert and the author of several books on fish in Minnesota, did a great deal of test netting in Ten Mile Lake last fall and was continually amazed at what a high walleye population we have. He expressed the opinion that letting Jake Pond rest for a year would produce no noticeable effect on the number of walleyes in Ten Mile Lake and probably would improve (restore) Jake's Pond restore) ct on the number of
 (restore) Jake's Pond
- 2 several years to locate a satisfact but thus far hasn't found one that another good one, we might have to friends in other nearby lake assoc Suitable rearing ponds are difficult lake associations satisfactory one for the produces properly. If we share its output with some to find. output The Woman DNR has been - as been trying for Lake Association we should locate of
- 0ur cer Fish ish Committee rtainly has me ee is (open-minded on but would pose the the suggestion of difficulties. two rearing ponds

60,000 fry were introduced by the DNR on May 6, and Lake Association added nearly a ton of soybean meal growth of algae. The algae comprise the chief diet get big enough to dime and incomprise the chief diet uced by the DNR on May 6, and a few days later the nearly a ton of soybean meal which is intended to algae comprise the chief diet of the fry until the on insects and other animal organisms. promote latter Ten Mi

STUDIES OF DWARF TULLIBEES CONTINUE

by the local DNR people and the Ten Mile Lake Association as well as by Mr. Dean Hickey who is District Ranger here in the Chippewa National Forest. We still don't know how these little ciscoes got here, what causes them to be dwarfed or just what their role is in the fishability of Ten Mile Lake. Prof. Underhill's present plans i nhabi t Prof. James C. Underhill of the University of Minnesota and several of his students conducted further studies last fall of the unique dwarf tullibees summer role is in the fishability of Ten Mile Lake. Prof. Underhill's present psummer include SCUBA work by some of his students to determine where these fish spend the summer doing what. Ten Mile Lake and nd swarm shoreward in October to spawn. and the Ten Mile Lake Association as well Ranger here in the Chippewa National Forest He was assisted

about Ten Mile Lake and these unusual fish, attended by approximately ment heads, professors from other departments and graduate students. I was privileged to be a guest both at the lecture, which was very well pand later at a luncheon where a smaller group of faculty members had a interesting discussion of what we have learned. What graculty members had a other departments and graduate students. This writ both at the lecture, which was very well presented e a smaller group of faculty members had a long and at we have learned, what questions remain, etc. This writer 100 departof Minnesota

whitefish might be responsible, and I whitefish into Elk Lake is being contanother 260 whitefish from Ten Mile I just when, observations will be made petition with whitefish affects the vironmental was determined early in these studies that competition with responsible, and the exploration of this theory by introducite fish into Elk Lake is being continued. Last November the DNR transferred itefish into Elk Lake is being continued. A few years from now, we're not sure than 260 whitefish from Ten Mile Lake. A few years from newly created continued to the continued continued the continued continued to the continued continued continued continued to the continued continued continued continued to the continued continue size of ake. A few years from now, we're not to ascertain whether the newly created size of the indigenous tullibees. the indigenous with

YACHT CLUB READY FOR SEASON

Lake Yacht regatta and Tennis on July Club 10 and in summer 11 headlines a big season lined ф γď

indicated advertised they will come," ⋽. the yachting p publications and Gull Lake Byron Hoffman, chairman of and Pelican the event. people

라 w. s × trophie and includes participation <u>.</u> three races daily two lunch

- Ke some volunteers Ö ass us Ct On. committee boats and shuttling,"

100 300

Hoffman. "Some large boats with operators will be helpful."

a letter to members, Commodore Chris Brandt gave schedule ٥f regular racing:

June 28 or 29 summer series

July 4 and 5 Fourth of July regatta

July 12 or 13 summer series

July 19 or 20 summer series

July 26 or 27 summer series

Aug. 2 or 3 trophy races and summer series

Aug. 9 or 10 trophy races and summer series

Aug. 16 and 17 Moxness Trophy Regatta

There will be four races the July 4 and 5 weekend, and Aug. promptly 10:30 a.m. Saturdays unless postponed until Sunday. 16 and 17. Races start

HOW ABOUT A FISHING CONTEST?

The Ten Mile Lake Association is considering a fishing contest for lake a sometime during the 1981 summer season -- IF there is enough interest to worthwhile. residents o make it

Needed are 10 volunteers to affair. Among other things decisions on: to plan ngs, the and stage what was initially contest committee would need proposed as to consider a one-day and make

- Eligibility
- 2. Contestant classifications
- Fish species
- 4. Prizes
- 5. Hours
- 6. Judging
- 7. Accompanying activities
- 8. Date and alternate

If you'd lik our Fishing like to serve ing Committee, on this volunteer at 675-6857. call Duke Gray, chairman of