

**TOWN OF TUFTONBORO
MIRROR LAKE WATERSHED COMMITTEE
AUGUST 31, 2016
MINUTES**

MEMBERS PRESENT: BEN LADD, CHAIRPERSON; LLOYD WOOD, SELECTMAN REPRESENTATIVE, LARRY GIL, JEFF MOODY, FAYE FRIEDRICH, MEMBERS, GENE KELLEY, ALTERNATE.

MEMBERS ABSENT: STEVE WINGATE, VICE CHAIRPERSON, JOHN LAPOLLA, DUSTY DAVIES, MEMBERS; LEEANN KEATHLEY, ADMINISTRATIVE SECRETARY.

OTHERS PRESENT: GUY PIKE.

MINUTES RECORDED BY: FAYE FRIEDRICH.

CHAIRPERSON BEN LADD OPENED THE MEETING AT 5:36PM, FOLLOWED BY THE PLEDGE OF ALLEGIANCE.

AGENDA: ITEM# 1 PRESENTATION BY LARRY GIL OF THE MIRROR LAKE PROTECTIVE ASSOCIATION.

LARRY GIL: MR. GIL FIRST WANTED TO THANK BOTH THE MIRROR LAKE WATERSHED COMMITTEE (MLWC) FOR ALLOWING HIM THE OPPORTUNITY TO SPEAK TO THE GROUP, AND THE MIRROR LAKE PROTECTIVE ASSOCIATION (MLPA) FOR ALLOWING HIM TO SPEAK ON THEIR BEHALF. HE ASSURED MEMBERS OF THE COMMITTEE THAT THE MEMBERS OF THE MLPA WERE AWARE OF THE VARIOUS ISSUES, AND SHARED MANY OF THE SAME CONCERNS AS NOTED IN RESPECTIVE AGENDAS FOR THIS MEETING AND THE BOARD OF DIRECTORS MEETING HELD ON AUGUST 14TH.

HE ALSO WANTED TO ACKNOWLEDGE THE ROLE OF THE MLWC MEMBERSHIP INCLUDING CHAIRMAN BEN LADD AND SELECTMAN LLOYD WOOD FOR OVERSEEING THE LANG POND ROAD PROJECT.

MR. GIL, REPRESENTING THE MIRROR LAKE PROTECTIVE ASSOCIATION (MLPA), OPENED THE MEETING WITH A PRESENTATION WHICH INCLUDED SEVERAL DETAILED MAPS; A DETAILED MAP OF MIRROR LAKE SHOWING 7 LOCATIONS WHERE WATER SAMPLES ARE DRAWN, AND A SECOND MAP OF THE MIRROR LAKE WATERSHED AND THE ABUTTING AQUIFERS.

THE MLPA HAS ACQUIRED THE COMPLETE WATER QUALITY DATA SET COLLECTED THROUGH THE VOLUNTEER LAKES ASSESSMENT PROGRAM (VLAP) ADMINISTERED BY NHDES AND UNIVERSITY OF NEW HAMPSHIRE LAY LAKES MONITORING PROGRAM (UNH LLMP). THE MLPA HAS GENERATED VARIOUS CHARTS AND GRAPHS FOCUSING ON TOTAL PHOSPHORUS (TP) AMOUNTS FROM THIS HISTORICAL DATA AT THE 7 LOCATIONS WITHIN THE LAKE AND OF INFLOWS INTO THE LAKE, PRIMARILY ALONG LANG POND ROAD. THE INITIAL ASSESSMENT FOCUSED ON AVERAGE AMOUNTS OF TP BY RESPECTIVE YEAR AND RESPECTIVE MONTHLY AVERAGES AT EACH STATION. SOME OF THESE CHARTS ARE REPRESENTED HERE (HANDOUTS PROVIDED TO COMMITTEE). OUR (MLPA) INTERPRETATION IS THAT THE PRIMARY SOURCE OF TP COMING INTO MIRROR LAKE COMES THROUGH THE LANG POND ROAD CULVERTS FROM UPSTREAM SOURCES.

THIS INFORMATION WAS NOT AVAILABLE FOR THE MIRROR LAKE MANAGEMENT PLAN PRODUCED BY GEOSYNTEC CONSULTANTS IN 2012. HOWEVER, THE TOWN AND THE MLPA HAVE ADDRESSED SEVERAL HIGH PRIORITY SOURCES IDENTIFIED IN THE PLAN, NOTABLY LANG POND ROAD AND MIRROR LAKE SUBDIVISIONS THROUGH BIORETENTION CELLS AND FLOW DIVERSIONS. THE MLPA BELIEVES THAT REDUCING THE SOURCE OF TP INTO THE LAKE WILL REDUCE THE POTENTIAL FOR CYANOBACTERIA OUTBREAKS AS HAS OCCURRED.

A QUESTION WAS RAISED BY ONE MEMBER OF THE MLWC AS TO WHY ONE SAMPLE COLLECTED FROM THE UPSTREAM SIDE OF THE CULVERT FROM JOE ABBOTT BROOK WAS 6 POINTS DIFFERENT THAN THE DOWNSTREAM SIDE OF THE CULVERT. MR. GIL POINTED OUT THAT THEY NO LONGER COLLECTED DOWNSTREAM SAMPLES BECAUSE ONE CANNOT ACCOUNT FOR THE POSSIBILITY OF CONTRIBUTING SOURCES FROM THE DOWNSTREAM SIDE OF THE CULVERT, AND ALSO NOTED THAT THERE ARE SILLS OF DEBRIS, WHICH HOLD THE WATER FROM DIRECTLY DISCHARGING INTO THE LAKE.

MR. GIL ASSURED THE COMMITTEE THAT THE ASSOCIATION APPROVED THE LANG POND ROAD PROJECT; MENTIONED THAT THE MPLA HAD CONCERNS ABOUT THE EXTREME LOW LEVELS OF WATER IN THE LAKE (DUE TO LACK OF SNOWFALL, SEVERE DROUGHT CONDITIONS, AND THE REMOVAL OF OBSTRUCTIONS (BEAVER DAMS) AT THE OUTLET.) THEIR GREATER CONCERN, HOWEVER, WAS THE POTENTIAL IMPACT OF WOLFEBORO' S RAPID INFILTRATION BASIN PROJECT LOCATED BETWEEN SANDY KNOLL ROAD, WHITTEN POND, AND THE NINETEENMILE BROOK WETLAND AREA SINCE THERE WAS SOME EVIDENCE OF A HYDRAULIC CONNECTION BETWEEN THE NINETEEN MILE BROOK AQUIFER/DRAINAGE BASIN AND MIRROR LAKE.

BEN LADD: FOLLOWED MR. GIL'S PRESENTATION AND SPOKE TO HIS KNOWLEDGE OF MIRROR LAKE AND "HOW IT WORKS"; WHICH INCLUDED THE HYDROLOGICS OF NINETEENMILE BROOK AND ITS SURROUNDING WETLANDS; REFERENCED 2 OF THE 3 WATERSHEDS THAT FEED MIRROR LAKE; REFERENCED THE LEVEL OF THE LAKE SET BY THE STATE OF NH, AT 509 FEET, AND THE FACT THAT THERE IS NO WATER CURRENTLY RUNNING FROM THE OUTLET OF THE LAKE DUE TO FACTORS MENTIONED EARLIER IN THE MEETING. HE ALSO REFERENCED THE TP LEVELS, THE WATER SAMPLES COLLECTED BY NH DES, AND THEIR FREQUENCY - MONTHLY, AND ASSURED ALL PRESENT THAT WITH RESPECT TO THE RAPID INFILTRATION BASIN PROJECT (RIB) '...THAT THE TOWN OF WOLFEBORO WAS DOING EVERYTHING BY THE BOOK", WHICH INCLUDED THE REGULAR MONITORING OF THE SITE; AND ALSO MENTIONED THAT DAVE FORD HAD ALL OF THE INFORMATION.

LLOYD WOOD, SELECTPERSON, STATED THAT THE STATE OF NH HAD GIVEN THE TOWN OF WOLFEBORO "...HIGH PRAISE FOR THEIR WORK AND THEIR REPORTING PROCESS."

GENE KELLEY: ASKED WHY THIS SITE (RIB) WAS LOCATED IN TUFTONBORO (LOCATED ON THE TUFTONBORO/WOLFEBORO TOWN LINE)?

LLOYD WOOD STATED THAT THE TOWNS OF TUFTONBORO AND WOLFEBORO WERE WORKING TOGETHER TO RESOLVE A VERY COMPLEX ISSUE. HE ALSO MENTIONED THAT THE TOWN OF WOLFEBORO IS, ONCE AGAIN, USING THE SPRAY FIELDS.

BEN LADD THEN ADDRESSED SEVERAL OF THE RECOMMENDATIONS MENTIONED IN THE WRITTEN PRESENTATION SUBMITTED BY MR. GIL, ON BEHALF OF THE MLPA:

- COLLECTING MORE WATER SAMPLES FROM THE BROOK THAT RUNS FROM THE WAUMBECK ROAD AREA TO MIRROR LAKE- TO WHICH HE SAID "GOOD LUCK", AS THE AREA IS OVERGROWN, WET, AND VIRTUALLY IMPENETRABLE- ACCESS IS IMPOSSIBLE WITHOUT CONSIDERABLE BRUSH CUTTING BEING DONE, NOTING THE HE AND GUY PIKE HAD MADE AN ATTEMPT TO WALK THE AREA
- THE FORMATION OF A "BLUE RIBBON COMMITTEE" - AN UNBIASED, IMPARTIAL GROUP FROM BOTH COMMUNITIES WHO MIGHT ASSESS THE POTENTIAL IMPACT OF VARIOUS FACTORS THAT MIGHT HAVE A NEGATIVE EFFECT ON MIRROR LAKE, THE AQUIFER, AND THE SURROUNDING WATERSHED - THOUGHT TO BE REDUNDANT AS THERE WERE

TOWN COMMITTEES SUCH AS THE MLWC, CONSERVATION COMMISSION, AS WELL AS THE MLPA INVOLVED IN THE PROCESS

- THE ENGINEERING AND PERMITTING OF SEPTIC SYSTEMS AROUND MIRROR LAKE -TO WHICH IT WAS SUGGESTED THE READING OF THE LAKE WENTWORTH ASSOCIATION HISTORY, VOLUME II (1996) – AND EXPLORING THEIR SUCCESSFUL RESOLUTION OF SIMILAR CHALLENGES ON THEIR LAKE
- LAND ACQUISITION – MUCH OF THE ABUTTING LAND IS PRIVATELY OWNED

LARRY GIL ASKED THAT THE INFORMATION GIVEN IN THE MLPA REPORT, AND THE VARIOUS RECOMMENDATIONS CONTAINED THEREIN BE PASSED ALONG TO THE BOARD OF SELECTMAN FOR THEIR REVIEW AND CONSIDERATION – THAT MOTION WAS MADE BY FAYE FRIEDRICH, SECONDED BY JEFF MOODY, AND APPROVED BY THE COMMITTEE.

ITEM II: BOAT LAUNCH AT ROUTE 109

BEN LADD MENTIONED THAT THE PLAN HE HAD PROPOSED FOR THE PUBLIC BOAT LAUNCH, LOCATED ON ROUTE 109, AND THAT HE HAD SUBMITTED TO THE BOARD OF SELECTMEN, WOULD ADDRESS BOTH SAFETY ISSUES, AS WELL AS THE PROBLEM WITH THE ELEVATED TP LEVELS AT THE BOAT LAUNCH. HE ESTIMATED THE PROJECT WOULD COST \$10,000.00.

GENE KELLEY WANTED IT TO BE MADE CLEAR THAT THE MLPA WAS NOT OPPOSED TO THE BOAT LAUNCH BEING IMPROVED, NOR WERE THEY OPPOSED TO ANY ENDEAVOR THAT IMPROVED THE WATER QUALITY OF MIRROR LAKE, AS EVIDENCED BY THEIR SUPPORT OF, AND CONTINUED INVOLVEMENT IN THE PROCESS. CONCERN ABOUT THE POSSIBILITY OF INCREASED BOAT TRAFFIC ON MIRROR LAKE HAD BEEN EXPRESSED, BUT IT WAS ACKNOWLEDGED THAT THE BOAT RAMP WAS A TOWN/STATE ISSUE.

LLOYD WOOD STATED THAT THE DRIVEWAY PERMIT HAD BEEN APPLIED FOR AND THAT THE BOARD OF SELECTMAN WAS WAITING THE LETTER OF APPROVAL.

BEN LADD WANTED TO REMIND THE GROUP THAT THERE MAY BE SOME ADDITIONAL EXPENSES, SUCH AS: RAIN GARDENS; PROJECT DESIGN (IF HIS DESIGN WAS NOT USED), PERMITS, AND REPLACING INCORRECT SIGNAGE AT BOTH THE BOAT RAMP AT 109, AND AT THE BEACH AT LANG POND ROAD.

LARRY GIL MADE A MOTION THAT THE BOAT LAUNCH PROJECT BE MOVED ON; THAT MOTION WAS SECONDED BY JEFF MOODY – AND PASSED BY THE COMMITTEE

ITEM III: LANG POND ROAD PROJECT

BEN LADD STATED THAT L.A. DREW WOULD BE UNDERTAKING THE RECONSTRUCTION PROJECT AT LANG POND ROAD, AND THAT HE HAD ALREADY SPOKEN WITH THE SURVEYOR, AND WILL BE SPEAKING WITH THE OWNER TO CHECK THE TIMETABLE AND START DATE. HE NOTED THAT VARIOUS THINGS NEEDED TO BE UNDERTAKEN BEFORE THE PROJECT BEGINS, AND THAT THEY ARE:

- INSTALLATION OF A NEW POWERLINE
- INLETS BEING CLEANED OUT
- OUTLETS TO BE CLEANED OUT

BEN MENTIONED THAT THE LOCATION OF THE PERCHED BEACH WOULD BE WITHIN 5 FEET OF THE 509-FOOT WATER LEVEL SET BY THE STATE FOR MIRROR LAKE.

MR. KELLEY: STATED THAT IN LIGHT OF THE FACT MLPA HAD FUNDED THE PERMITTING FOR THE LANG POND ROAD PROJECT, AND AS HE HAD EXTENSIVE EXPERIENCE WITH THIS TYPE OF UNDERTAKING, HE ASKED THE COMMITTEE FOR PERMISSION TO BE INVOLVED IN THE OVERSIGHT OF THE PROJECT, AS A REPRESENTATIVE OF THE MLPA. THAT WAS AGREED UPON. HE ALSO ASKED WHEN, AND HOW OFTEN NORWAY PLAINS WOULD BE OUT TO MONITOR THE PROJECT, AND WAS TOLD BY BEN LADD, "...APPROXIMATELY 6 OR 7 TIMES," OVER THE COURSE OF THE UNDERTAKING. BEN ALSO STATED THAT HE THOUGHT AN EXTRA SET OF EYES, WITH RESPECT TO PROJECT OVERSIGHT, "...IS ALWAYS A GOOD IDEA."

ITEM IV: MIRROR LAKE OUTLET

MR. LADD STATED THAT AS OF OCTOBER HE "... WILL NO LONGER BE INVOLVED IN MAINTAINING THE MIRROR LAKE OUTLET, AND WOULD BE TURNING IT OVER TO THE MPLA TO MAINTAIN." HE STATED THE JOE ABBOTT BROOK POSED MORE OF A PROBLEM. HE DID SAY, HOWEVER, THAT "...HE WOULD BE CHECKING THE SITE ONCE A MONTH TO ENSURE THE WORK IS BEING DONE."

BEN LADD ASKED IF THERE WERE TO BE ANY CHANGES TO THE MINUTES OF THE MEETING HELD ON JULY 27, 2016. NONE WERE NOTED. FAYE FRIEDRICH MOVED THAT THE MINUTES BE ACCEPTED AS WRITTEN; JEFF MOODY SECONDED THE MOTION. ALL MEMBERS VOTED IN FAVOR.

MEETING WAS ADJOURNED AT 7:03PM