

**Water Quality Committee
Village of Millbrook
January 17, 2011**

In attendance: Trustee Stanley Morse, Frank Genova, Howard Schuman, Scott Osborne, Dr. William Augerson, Steve Lynch from R.S. Lynch & Co., Ken Scherrible via speaker cell phone and Kayel C. Conklin.

Call to Order-Trustee Morse at 4:30 PM

Pledge of Allegiance-Led by Scott Osborne

Agenda Review-Trustee Morse reviewed the agenda.

Frank Genova commented on the very real possibility of a disaster beyond the Village's control affecting the Village water supply. He gave a recent example of an oil truck on Valley Farm Road that overturned last week causing a very minor oil spill and the NYS DEC was on the scene.

Trustee Morse informed the committee that Vicky Kelly will speak at the February meeting on "Road Salt: Moving toward the Solution". He also stated he is not ready to discuss or expand on the charter factors outside of the Village. This will also be discussed in the February meeting.

Trustee Morse stated that the studies being completed by the committee have been paid for by the Shared Services Grant for additional water sources in and outside of the Village. Also being studied is the long term expansion into the Town of Washington. Maple Avenue, Rodrigo Knolls and Horseshoe Drive are examples only of this expansion study. The committee is also studying a back up aquifer. Steve Lynch added that the work under the grant needs to be finished by March as per the contract the Village has with NYS.

Grant Status-Steve Lynch stated the Village is obligated to tell NYS what is going to be done since they have a grant and a contract. He added that there is only a few thousand in the grant for these studies. Steve informed the committee that the Village must use expert analysis to find more detailed secondary water source information.

Tasks-Steve explained the different tasks associated with the Shared Services Grant. Task 1 is designated to repair the sewer lines and this was done for half of the cost so that doubles the amount of sewer lines that the Village can repair. He reminded the committee that this is a reimbursement grant. Task 3 was the comprehensive sewer and water plan which is information and data that the Village and the Town of Washington can draw from for each of their Comprehensive Plan. Task 4 was intended to study the water and sewer rates and this information was submitted at the last meeting. Task 5 is the evaluation of different agreements such as inter-municipal agreements. Task 3 will look at changes or expansions and how they will impact the Village and the Town for the

next 50 years. This information will potentially tell the Village where the water and sewer rates should be with additional services extended to those in the Village currently not receiving these services. Task 2 will provide the cost and impact on the water and sewer costs if they add on Village residents. Steve added that if the former Bennett College or the County Infirmary were added the Village can use this analysis. They have identified specific expansions for the future into the Town of Washington, Nine Partners Lane, the DC Infirmary, a new water source and the former Bennett College development. Steve stated he feels this is as far as we can go with the grant with just a little more analysis costs that can be done through the grant.

Matrix Presentation on Back-up Aquifers-Steve they have identified 9 specific sites for potential water sources. There are three criteria which include costs, preliminary an independent water source and quantity. Based on these criteria they have been rated with 5 being the best score and 1 being the worst. A new water facility and the cost to bring the water to where it is needed are estimated on the report submitted. The cost of what the parcel can be acquired for is not included. The cost, quantity and independent source are the 3 criteria. Steve recommended the Village should use the 3 criteria to have an engineering study done on due to cost. Frank asked if Stanford Road is being considered as well. Howard Schuman stated this report is very preliminary and that Stanford Road can still be considered. Discussion continued on whether Stanford Road should or should not be included in the analysis. It was agreed on that the site labeled north of the Village is Stanford Road according to the committee. Steve informed the committee of the criteria. Howard added that these are general areas and are not pinpointed sites specifically labeled by house numbers. He stated that the area labeled number 5 on the map previously submitted is considered the Stanford Road aquifer.

Steve took out one criterion which is viability since it is a combination of the other 3 criteria. He added this is a preliminary estimate as to these 3 variables. The property prices and acquisitions were not factors looked into at this point. This is beyond the scope of the grant according to Steve. Steve stated it is his experience that the Village can choose 2 or 3 of the aquifers to narrow the scope of their study. Frank questioned if the committee can make a response to the Village Board of Trustees that it should be examined over time. Steve stated that if the Village wishes to develop a second water source they should procure funds in the budget for it to do a much more detailed study. Trustee Morse went over the chart showing the best sources in the area for a secondary water source. Howard stated there are issues to consider and this is very preliminary subcommittee report. He added they sat down as a subcommittee to produce this preliminary matrix submitted.

Backup Aquifer Committee Report-Kayal Conklin stated he has the ability to take a closer look at the flow rate numbers and viability. Kayal answered that he did not develop the map using these numbers to answer Steve's question. Steve asked about using quantity. Kayal stated he used the map of aquifer perimeters from NYS.

Frank stated this committee would be preliminary subsequent to hiring a hydrologist. Kayal stated he is currently not set up for recharge abilities. Bill stated he observes that

Steve and company have done what they were required to do under the grant. He added that the ultimate decision making and reports give them a composite number and aid in making the study. The decision and he wants to point out and choose what they want to put weight on such as cost, quantity and independent source. He also stated that elements that stand out will help make the ultimate decision on where to proceed. Steve stated he wants to get a consensus and they may want to use different weighting on certain criteria.

Water Source Research Funding-Trustee Morse discussed the Village budget and the need of funding for the water committee. He will be asking Howard for subcommittee cost needs from the Village for the budget. Steve stated that the study of expansion into the Village of water can be modestly paid for by the Shared Services Grant. Ken Sherrieble stated the aquifer subcommittee can spend about \$2,000 and the total committee numbers will be provided at a later date. Ken added he will prepare the use of money and what is left to expend. Frank asked Ken about a hydrologist needed to make final recommendations. He then asked Ken for his best estimate. Ken stated the cost depends on the number of sources you want them to look at and soil composition is a factor. \$50,000 is perhaps his best guess. Trustee Morse stated they must first determine what is going to be the cost and currently they are not in any position to ask or hire a hydrologist. Approximately \$3,000 to \$4,000 would be the total to spend under the grant.

Further Studies-Howard stated he wants to see Kayal do a detailed study and maps. Ken stated he will confer to Kayal as he has the information on soils and water sources. Kayal stated he has the information on 8 sites and he is not sure of the number of hours it will take to put this information together but it can be done. Bill stated he is not altogether sure but the money spent on the subcommittee is the best use of available funds. He asked if the calculation of expansion costs straight forward. Steve stated he is in the process of estimating capital costs to expand water and sewer services to Nine Partners Lane. Scott Osborne answered that it is very close to a straight forward number.

Roundtable Discussions-Bill asked if some sources need to be set aside for another consideration. Scott responded that Nine Partners Lane area is a priority. Trustee Morse added that only Village property is being considered for expansion to the water services. Howard inserted that sewer would flow from gravity alone and asked if the apartments above Danielle Drive are being considered for any expansion. Steve stated that the Village only is being studied and no water or sewer will be expanded to those properties located outside the Village.

Trustee Morse stated he feels the quantity is most important. Howard stated he is concerned about pollution which takes into consideration location and quantity. They had many subcategories. Frank suggested they use this information to tell Russell Mead to let him tell us what ones are the best choices. Steve stated they can use this information to get a hydrologist and work on the next phase using this initial report. He added that a clear scope for a hydrologist is critical to tell them what the Village wants. Howard stated they have 3 scenarios as a backup for the Village alone, a dream scenario for the best aquifer possible and third expansion into the Town of Washington. He added that all data must be weighted and based on one of these 3 scenarios and then they should

put all their eggs into that basket. This information will narrow the tasks assigned to the hydrologist.

Bill stated the tragic underpinning is a 50 year long term look at these issues that will provide and favor the Village. The tragic part is the governmental activities and they take the long term view of things and make decisions that in the long term benefit and save money. He added that very frequently citizens are interested in this year and not the long time frame. He referred to the new high school building and the heat exchanger being voted down initially and then a more costly approach to heating and cooling in the long term passed the vote.

Howard and Frank stated they have enough information for the subcommittee to proceed. Steve was invited to attend the subcommittee meetings.

Back up Aquifer Committee Report continued see attached-Howard stated the subcommittee decided on a goal and weighted the preliminary goals. Steve gave his point of view which is looking at alternative potential expansions. He listed them as in the Village on Nine Partners Lane, the former Bennett College, the Dutchess County Infirmary, a possible new water source, the Town of Washington Rodgrigo Knolls and Horseshoe Road. Steve explained that if several of the 5 options are added then at some point you will exceed the current water source and need to look at the secondary water source. Steve stated the study is to see if the Village wants to do this and what the Village should or needs to do. He added the Water Committee is silent on whether the Village should or should not. Howard stated that one solution is a backup aquifer. Steve added that one or two of the identified 5 expansions can be done with the current water source. Frank stated the purpose of the committee is to point out the needs based on one or more of the 5 expansions. Steve stated they can lay out alternative aquifers and given certain criteria then the Village Board of Trustees makes the final decision.

Power Point Presentation-Kayal gave a power point presentation showing major aquifers, the proximity to roads, and the projected flow lines of the water in the aquifers. He indicated that it would be possible for him to use GIS software to determine the overall quantity of water in each of our nine aquifers and the potential recharge rate at the well head. Howard stated they must put the well over the primary aquifer and not into the secondary areas. Kayal pointed out that salt issues from primary roads in an aquifer area given and he showed 100 foot buffer zones. He added that directions of flow were also labeled. Frank stated that streams are not the most highly productive and some streams feed into and some drain water sources.

Future Meeting Scheduled-Monday, February 28, 2011

The meeting concluded at 6:05 p.m.

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Respectfully Submitted,

Linda T. Wiltse
Village of Millbrook
Clerk/Treasurer