WINNISPESAUKEE RIVER BASIN PROGRAM
CIP COMMITTEE
January 23, 2013 - Laconia Maintenance Shop
MINUTES

Members present: Brian Sullivan (Franklin-chairman), Paul Moynihan (Laconia), Ray Korber (Bay District), Sheldon Morgan (Gilford) and Dan Leonard (Meredith), Sharon McMillin (DES), and Steve Dolloff (DES).

Meeting called to order at 10:10am by Chairman Brian Sullivan.

Sharon McMillin explained that the purpose of this meeting is to prepare recommendations to give CDM direction in their 40-hour Value Engineering (VE) effort for the Flow Metering Project. The more information the Board and DES staff can give to CDM, the better the results of the final product. Sharon and Steve Dolloff have met with WRBP staff to prepare a list of recommendations. CDM also provided their preliminary ideas for possible ways to reduce the project scope and budget to the Advisory Board members via email. Sharon passed out a draft memo of the WRBP staff recommendations (attached with corrections as noted during this meeting). The following is a summary of some of the key recommendations. The WRBP recommendations provide for over $500K in savings to the overall project budget.

3 permanent meter locations can be removed from the contract scope and replaced with temporary metering. The cost estimate for temporary metering with 4 weeks during wet weather and 4 weeks during dry weather would be about $18,000 for 2 sites and about $23,000 for 5 sites. So, she estimated that about $20,000 would be the cost for temporary metering of the proposed 3 locations. It is recommended that the Soda Brook and Opechee sites be removed from the contract scope and replaced with temporary metering. Paul Moynihan informed members that Dave Clapp (DAS) had previously agreed with removing the Opechee site and using temporary metering data. Sharon McMillin noted that Jeanne Beaudin had not objected to alternate means of flow metering such as the proposed temporary metering for Soda Brook. She had just wanted to make sure that the WRBP would assess Northfield for these flows from the community located in Northfield, so that Belmont was not erroneously assessed for flows coming from outside their town or require Belmont to enter into any separate agreement with Northfield. The GL1 site is the most expensive site in the project. By relocating GL1 back to the existing flow meter site that will be retrofit by WRBP staff and adding temporary metering of Lake Business Park, the needed flow information will be collected. Ray Korber noted that the GL1 site is water metered and, therefore, shouldn't need temporary metering if the water meter data is used. After further discussion, it was agreed to do the temporary metering at this site as it will collect I/I information which could add additional flows at this location. The temporary metering could be done every 5 years and the formulas reevaluated.

Remove State School pump station from the contract; using existing data obtained from wetwell drawdown calculations. Since this pump station is relatively low volume this is an appropriate method to obtain accurate flow information. The pump station can be retrofit with a magmeter by WRBP staff, if deemed necessary in the future. However, the WRBP staff does not recommend any installation at this time because of future property ownership and use *uncertainties*. Sewer flow related to any future development of the Lakes Region Facility (be it the gravity flow through the Opechee site or the flow from the State School Pump Station) will be subject to review by the City of Laconia. At that time, Laconia can decide any metering (or other flow assessment agreement) it wants to require of the new project owners to delineate flow for local Laconia Sewer Billing purposes (i.e., under any future development scenario at this site, WRBP will treat all flow from the site as "Laconia Flow").

Remove the Route 140 flow location from scope of work since, after further research, no single location adequately differentiates Tilton, Belmont and Northfield flows in this area. Use the Tilton-Northfield Water District's monthly metered flows for wastewater billing purposes for sewer users in Northfield connected to the Belmont PS force main. These metered flows are the basis for Tilton and Northfield assessing each property owner along Route 140 for both water and wastewater, and there should be no I/I contributions since all these properties pump to the WRBP interceptor.

Relocate ML1 to an existing manhole and battery power. Use the existing downstream manhole for ML1 with installation of battery power, a permanent A/V meter and Spread Spectrum radio. Only 2 seasonal cottages will be missed and this eliminated the need to install a new manhole with permanent power lines over the railroad tracks.

Get the existing WRBP earthworks contractor (WF Richards) to install the 2 new manholes at Bay District and Belmont Pump Stations. This removes the only significant civil work from the contract so that the scope becomes more attractive for an electrical/electronics firm to perform. Sharon has confirmed with DES-WEB that this is allowed under SRF funding as long as the appropriate documents are prepared (PE stamped drawings of required manholes) and the installations are inspected by an engineering firm.

Delete all the 400 MHz work from the contract. Use Spread Spectrum, unlicensed radios instead. This eliminates all work on Belknap MT. and all re-programming of the current polling system using the existing, licensed 900 MHz radios. Initial research indicates that there are several options for frequencies, battery powered and AC options that can be evaluated. The goal is to get unlicensed radio signals to either a pump station (where flow info will then be incorporated into the current polling transmission as just another piece of data) or to the Laconia shop as a direct 4-20 mA input to the SCADA system without disruption to the existing polling system. Each location will be evaluated for most feasible configuration.

Remove the dye dilution testing from the scope. After further research, Sharon indicated that this testing only provides information on whether an "error factor" should be consistently applied to the data and the test itself has significant inherent errors. If deemed necessary, such testing could be performed under a separate contract, but she indicated that it would be of limited value.

Ray Korber made a motion; seconded by Sheldon Morgan; with the CIP Subcommittee then voting unanimously to concur with the recommendations proposed by WRBP staff in their draft memo, noting that they meet the overall flow metering project goals by maintaining an appropriate level of accuracy and coverage so there is little impact to the level of service. A summary table describing each metering location noting the proposed change in scope and budget is to be prepared and presented to the Advisory Board.

The next step is for WRBP staff and CDM to meet in a workshop to finalize the scope. The goal is to re-bid the project by March 1, 2013. Ray Korber recommended that a written memo be prepared after the workshop so that there is a record of concurrence with WRBP recommendations as well as any other recommendations made by CDM; thus, confirming the design decisions to be incorporated into the final bid documents. Sharon McMillin suggested that this be a summary and/or minutes of the workshop in order to minimize time and cost, but agreed that a written document would be prepared and presented to the Board. Steve Roberts (DES-WEB; Design Review) would be asked to attend the workshop in order to expedite review of the final documents. Once the project scope is finalized, it will be presented to the Advisory Board for concurrence. DES-WEB also needs to review and issue an approval to bid, per the SRF funding requirements.

Dan Leonard made a motion; seconded by Ray Korber; with the CIP Subcommittee voting unanimously to adjourn. Meeting Adjourned at 11:25am.