

## **Water Resources Committee**

### **Final Agenda**

**March 28, 2012**

- 1. Minutes from Previous Meeting.**
- 2. Shutesbury Draft Open Space Plan comments.**
- 3. Develop, review & discuss available data resources; identify types of data & their utility, & additional data collection, compilation & analysis needs & methods:**
  - a. USGS Surficial Geology Map Utility & GIS Integration Update—Al Werner & Paul Lyons**
    - i. Opportunities & Constraints for Water Resources**
  - b. State Bedrock Geology Map Utility & GIS Integration Update—Al Werner**
    - i. Category Descriptions**
    - ii. Opportunities & Constraints for Water Resources**
    - iii. Possible Uranium & Arsenic in Some Well Water Concern—USGS Report Response & Mt. Holyoke Test Indications**
  - c. NRCS Soil Survey Report Access, Map Categories, Map Accuracy, Utility & GIS Integration—Paul Lyons & Bill Elliot**
    - i. Texture Class & Hydrologic Soil Group Mapping Updates**
    - ii. Depth to Bedrock Mapping Possibilities**
  - d. Mt. Holyoke College Student Hydrologic Study Update—Al Werner**
    - i. Town Residents' Questionnaire Responses & Data Management System Progress**
    - ii. Stream Sampling & Analysis Progress**
    - iii. Well Water Sampling & Analysis Progress**
    - iv. BOH Perc Test Records Compilation & Data Entry Progress**
    - v. BOH Well Test Records Compilation & Data Entry Progress**
    - vi. Correlations with Bedrock, Surficial Geology, Soils, Groundwater & Surficial Hydrology Maps**
  - e. Lake Wyola Watershed Streams & Lake Nitrogen & Phosphorous Records Compilation & Trend Graphing—Bill Elliot & Mark Rivers**
  - f. Weather & Climate Analysis**
- 4. Nitrate Concentration in Groundwater from Septic Systems—Bill Elliot**
  - a. Groundwater Recharge Analysis Models, Data Requirements & Acquisition Methods**
- 5. Investigation, data storage & analysis resources updates:**
  - Proposed Additions & Updates to MassGIS Data Layers**
  - Development of One Common Database for All Town Committees & Departments**
  - GIS Services Collaborators--Shutesbury Assessor, MASSGIS, FRCOG, NQRLP, Mt. Holyoke College, UMass, Others?**
  - Stream Flow Estimator & Stream Stats--USGS**
  - Review scope of services & report written by Dr. Boutt, UMass Hydrogeologist, for town of Leverett, 2007.**
  - UMass TEI—Bill Elliot**
- 6. Items that cannot reasonably be anticipated prior to meeting**