Minnesota Geospatial Advisory Council
Subgroup Work Plan

3D DEM Hydro-Modification Subgroup

**Work Plan date:**
January 28, 2020

**Co-chairs:**
Rick Moore

**Steering Committee Liaison:**
Sean Vaughn

**Link to workgroup charter:**
http://www.mngeo.state.mn.us/committee/3dgeo/3dgeo_committee_charter.pdf

**Work Plan for Calendar 2020**

**Planned activities and deliverables:**

1. **Education and Outreach**
   - a. Design one-page handout that describes the Workgroup and highlights the successes and future efforts of this collaborative group
   - b. Look for opportunities to connect with hydrography related committees and workgroups within the Agencies and other States
   - c. Continued collaboration between technical staff and decision makers on hydro-modification and breachline creation

2. **Finalize and publish Standardized Breachline Attributes**
   - a. Develop Standards Document for Breachlines
   - b. Develop and finalize the Breachline Attribute Geodatabase Template

3. **Develop the Methodology and Protocol document for hydro-modification**
   - a. Methodology and Protocol will be based on members knowledge and experience

4. **Establish a Digital Dam Breachline QA/QC Project**
   - a. Strategize ways to fund the Digital Dam Breachline QA/QC Project
   - b. Develop Protocol document to guide QA/QC and assembly of the database for the existing breachlines
   - c. Ensure the subgroups authoritative database attributes are incorporated into the project.
   - d. Serve or provide a spot review of draft data from the project.
   - e. Publish the data for public consumption.
   - f. Goal Statement: All breachlines will be populated with authoritative database attributes.
   - g. Ultimate Goal Statement: A ultimate final product capable of producing a Level 3 hydro-modified DEM
5. Update and Refine the Draft centralized authoritative map of current breachline datasets

6. Identify documents and other best practices
   a. Establish an archive in SharePoint of literature that pertains to breachlines and hydro-modification (Action Item – Move products to public facing site)
   b. Identify what other states are doing in terms of hydro-modification and breachlines

7. Maintain ongoing support duties
   a. Work with MNGEO (Nancy Rader) to maintain workgroup web page
   b. Maintain web pages for DEM Hydro-Modification subgroup
   c. Identifying and Recruiting Membership
   d. Maintain SharePoint site – current and relevant content
      i. Focus on using SharePoint for collaboration, such as documents for DEM Hydro-Modification subgroup

Roles and responsibilities:

Membership will include diverse users and stewards of hydro-modified Digital Elevation Models (hDEM) and hydrography data. Provide guidance to data stewards and users on initiatives that relate to LiDAR derived hydro-modified DEMs.

Resources:
The DEM Hydro-Modification Subgroup will use the work and accomplishments of the current Hydrogeomorphology Workgroup and former Hydrography Committee and collaborate with other current 3D Geomatics Committee Workgroups.

Workgroup needs:
The DEM Hydro-Modification Subgroup will depend on guidance from the Hydrogeomorphology Workgroup and the 3D Geomatics Steering Committee.

Dependencies and interrelationships:
The DEM Hydro-Modification Subgroup will work with the Hydrogeomorphology Workgroup and the 3D Geomatics Steering committee to coordinate LiDAR acquisition standards as they pertain to Breachline.

Risks:

- Taking on too much responsibility and underestimating the amount of commitment to the workgroup.
- Lack of standards for data development and data application of hydrography data. Bad data will translate into lost time and money.
- Lack of communication between government agencies at all levels and private sector partners pertaining to hydrography data.

Additional Comments:
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Date approved by the 3D Geomatics Steering Committee: