Considerations When Submitting Spatial Data to SGMA Program

In an effort to provide a consistent statewide Bulletin 118 Basin Boundary geospatial dataset, please consider the following items:

1) **Documentation/Metadata:** Please include detailed information about all datasets used to digitize or otherwise support the creation of this geospatial data. Please be prepared to provide these reference datasets to DWR if requested.

2) **Shapefile Attribute Table:** Shapefiles downloaded from the BBMRS tool contain the required attribute fields. Please do not modify or delete the attribute fields.

3) **Shapefile Spatial Reference:** The required spatial reference (datum and projection) is the 2011 version of NAD 83 California Teale Albers (Meters). Shapefiles downloaded from the BBMRS use the required spatial reference. Please do not change the spatial reference of shapefiles downloaded from the BBMRS tool.

4) **Digitizing/Editing Recommendations:** The following guidelines are provided for vertex spacing when digitizing a new basin boundary for a basin modification request:
   a. Absolute spacing
      i. The distance between vertices, as measured in the real world, will represent no more than 1,000 feet horizontal distance
      ii. Exceptions will be allowed for boundaries that are represented as straight lines on the map and in the real world
   b. Scale dependent spacing
      i. Vertices should be no more than 1/8-inch apart when viewing the map in its designated scale. For example:
         - In a 1:24,000 scale map, 1-inch on the map equals 2,000 feet on the ground. Vertices spaced 1/8 inch apart represent points on the ground that are 250 feet apart
         - In a 1:100,000 scale map, 1/8-inch on the map represents points on the ground that are 1,042 feet apart
         - In a 1:250,000 scale map, 1/8-inch on the map represents points on the ground that are 2,604 feet apart
      ii. Basemaps with scales smaller than 1:250,000 will not be accepted (i.e. 1:500,000 scale map is a smaller scale than 1:250,000)
      iii. Exceptions will be allowed for boundaries that are represented as straight lines on the map and in the real world
   c. Spacing based on line curvature
      i. The obtuse angle created by any vertex and its connecting lines shall be greater than 135 degrees
      ii. Some exceptions will be allowed