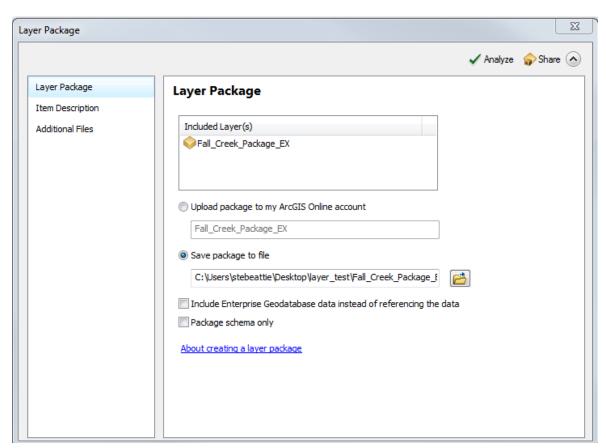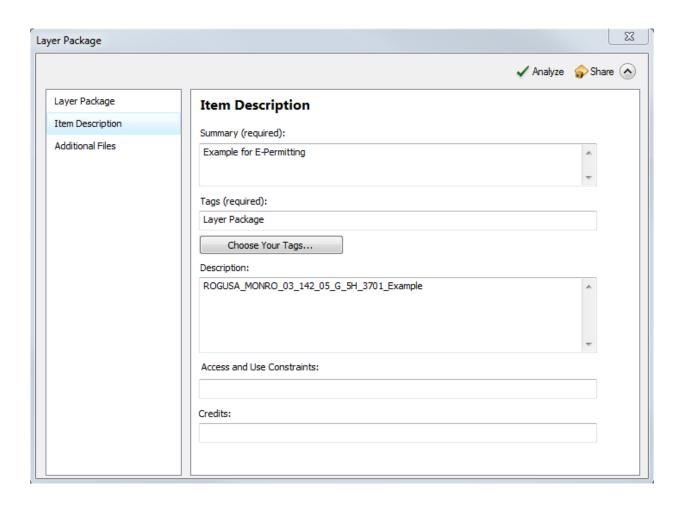# ESCGP 102 GIS Standards and Definitions

- **Horizontal Accuracy Statement**: GPS coordinates must have a horizontal accuracy of plus or minus 6.67 feet or better as required by 78a.55(i)3(ii) and all points need to be in NAD 83 and must be reported to 5 decimal places.
- **Layer Package Upload**: Should contain the following files:
  - LPK
- **Layer Package**:
  - Standard: It must be projected with the appropriate Coordinate Systems (Figure 1):
    - NAD 83 StatePlane Pennsylvania South FIPS 3702 (US Feet)
    - NAD 83 StatePlane Pennsylvania North FIPS 3701 (US Feet)
  - Setup:
    - Layer Package must be saved to a file with an appropriate name of 25 characters or less
    - Leave "Include Enterprise Geodatabase data instead of referencing data" and "Package schema only" unchecked
    - Fill out Item Summary and Tags with what you deem appropriate.
    - Additional Files is not applicable

Layer Package

Analyze Share

Layer Package
Item Description
Additional Files

Item Description

Summary (required):

Example for E-Permitting

Tags (required):

Layer Package

Choose Your Tags...

Description:

ROGUSA_MONRO_03_142_05_G_5H_3701_Example

Access and Use Constraints:

Credits:

- Guidance Language for Layer Package Features:
  - Under the new electronic DOW permit process, DEP will be requesting that operators submit a GIS layer package consisting of spatial features (shapefiles) from pages 1 and 3 of the plat. To facilitate the review process, DEP has created a guidance list of features to assist operators as they create their layer packages. This guidance includes naming conventions, preferred GIS geometry types, regulation requirements and background information regarding why permit staff would like to see these features. This guidance is only for applicable features on the plat and it is understood not all features will be used. If there are other features that the operator determines would be essential for DEP review, they can add those to the layer package. To clarify, this applies only for naming conventions and types for features in the layer package. Symbology, style and labeling may be developed at the operator's discretion, provided the layer package is easily interpreted. With respect to the suggested naming conventions, the precise names provided need not be used by the operator; but derivatives should be close enough that DEP staff will clearly understand which features are being described (e.g., Access Road versus Access Rd.; or Surface Hole Location versus SHL). It is not required that the

operator follow this guidance, but it is recommended, as it will allow DEP staff to review permits more efficiently and require less communication between parties.

- **Shapefile Uploads**: Must be the same name and contain the following files extensions:
  - DBF
  - PRJ
  - SBN
  - SBX
  - SHP
  - SHX
- **Additional Shapefiles**:
  - Standard: It must be projected with the appropriate Coordinate Systems (Figure 1):
    - NAD 83 StatePlane Pennsylvania South FIPS 3702 (US Feet)
    - NAD 83 StatePlane Pennsylvania North FIPS 3701 (US Feet)
  - Attributes: Operator's discretion
  - List of Shapefiles (see guidance document for geometry type)
    - Limit of Disturbance (mandatory)
    - Pipelines (required if applicable)
    - Permanent Access Roads (required if applicable)
    - Temporary Access Roads (required if applicable)

NAD 83 StatePlane Pennsylvania North FIPS 3701 (US Feet)

NAD 83 StatePlane Pennsylvania South FIPS 3702 (US Feet)

Figure 1: Shows a map of the two State Plane Coordinate System zones, showing the counties that make up each zone.

- **Shapefile Definitions**:
  - *__Limit of Disturbance:__* Shape format is POLYGON. Provide a Limit of Disturbance (LOD) outline for the entire proposed project. The LOD file will enable DEP to aggregate all proposed projects into one layer, regardless of project type. Well pads, compressor stations, pipelines, water withdrawal sites, etc.
  - *__Proposed Pipelines:__* Shape format is LINE. Provide the location of the proposed pipeline (actual trench location) or Right-Of-Way centerline. This line feature will be used to show the locations of proposed pipelines statewide.

- *Permanent Access Roads:* Shape format is LINE. Show centerline of the roadway
- *Temporary Access Roads:* Shape format is LINE. These access roads are typically constructed to provide access points to pipeline ROWs. Provide centerline of the access road