

GIS Datasets

GIS/geoHMS

File	Coordinate System	Description
CNgridEX	NAD 1983 BLM Zone 14N US Feet	Existing CN Grid. Raster generated through HEC-geoHMS application based on Landuse-Existing.shp and SSURGO.shp datasets.
CNgridFU	NAD 1983 BLM Zone 14N US Feet	Future CN Grid. Raster generated through HEC-geoHMS application based on Landuse-Future.shp and SSURGO.shp datasets.
DEM_TFG	NAD 1983 BLM Zone 14N US Feet	2010 LIDAR Topography (modified). Raster generated through HEC-geoHMS DEM Reconditioning application. TFG modified stream channel cross section and culvert crossings based on field measurements.
landuse-EX.shp	Lancaster County Grid US Feet	Existing Land Use. Shapefile generated by TFG using the City's Ownership Parcels GIS dataset. Parcels were subdivided as needed and categorized based on aerial photography and site visits.
landuse-FU.shp	Lancaster County Grid US Feet	Future Land Use. Shapefile generated by TFG using Landuse-Existing.shp file as a base. Parcels were modified and re-categorized as needed based on the 2014 Conceptual Level Design Plans.
Reservoirs.shp	Lancaster County Grid US Feet	HEC-HMS Schematic - Existing Reservoir Nodes Shapefile generated by TFG showing point location of existing HEC-HMS reservoir nodes.
Future_Reservoirs.shp	Lancaster County Grid US Feet	HEC-HMS Schematic - Future Reservoir Nodes Shapefile generated by TFG showing point location of future HEC-HMS reservoir nodes.
Junctions.shp	Lancaster County Grid US Feet	HEC-HMS Schematic – Junction Nodes. Shapefile generated by TFG showing point location of HEC-HMS junctions nodes.
River286.shp	NAD 1983 BLM Zone 14N US Feet	Reaches Shapefile generated through HEC-geoHMS application for Terrain Preprocessing. Reaches
SSURGO.shp	USA Contiguous Albers Equal Area Conic USGS Meter	Soils - Hydrologic Soil Groups Shapefile generated by TFG from the NRCS's SSURGO database with Hydrologic Soil Group attributes, and clipped to watershed.
Subbasin286.shp	NAD 1983 BLM Zone 14N US Feet	Existing Subbasin Delineation Shapefile generated through HEC-geoHMS application for Terrain Preprocessing.
Subbasinsfu.shp	NAD 1983 BLM Zone 14N US Feet	Future Subbasin Delineation Shapefile generated by TFG using Subbasin-Existing.shp as a basis. Subbasins were modified based on the 2014 Conceptual Level Design Plans.

Upper Wagon Train Watershed Master Plan

GIS Datasets

GIS/geoRAS

File	Coordinate System	Description
EX500yr.shp	NAD 1983 BLM Zone 14N US Feet	Existing 500yr Floodprone Area. Shapefile generated through HEC-geoRAS application for Inundation Mapping of the 500year-24hr Floodplain under existing conditions.
EX100yr.shp	NAD 1983 BLM Zone 14N US Feet	Existing 100yr Floodprone Area. Shapefile generated through HEC-geoRAS application for Inundation Mapping of the 100year-24hr Floodplain under existing conditions.
EX_XS_Cut_Lines.shp	NAD 1983 BLM Zone 14N US Feet	Existing Cross Section Locations. Shapefile generated through HEC-geoRAS application from the HEC-RAS GIS export file for existing conditions based on 2010 LIDAR data.
FU500yr.shp	NAD 1983 BLM Zone 14N US Feet	Future 500yr Floodprone Area. Shapefile generated through HEC-geoRAS application for Inundation Mapping of the 500year-24hr Floodplain under future peak flow conditions.
FU100yr.shp	NAD 1983 BLM Zone 14N US Feet	Future 100yr Floodprone Area. Shapefile generated through HEC-geoRAS application for Inundation Mapping of the 100year-24hr Floodplain under future peak flow conditions.
FU_XS_Cut_Lines.shp	NAD 1983 BLM Zone 14N US Feet	Future Cross Section Locations. Shapefile generated through HEC-geoRAS application from the HEC-RAS GIS export file for future peak flow conditions based on 2010 LIDAR data.
minfldcor_FL.shp	Lancaster County Grid US Feet	Minimum Flood Corridor. Shapefile generated by TFG based River.shp and 2010 LIDAR topography. Minimum Flood Corridor widths calculated per the City of Lincoln Drainage Criteria Manual.
River.shp	NAD 1983 BLM Zone 14N US Feet	HEC-RAS River Flowline. Shapefile generated by TFG using the River.shp derived through HEC-geoHMS as a basis. River lengths were modified to include only channels with 150ac of accumulated streamflow.
Existing Road Crossing.shp	Lancaster County Grid US Feet	Existing Road Crossing Locations. Shapefile generated by TFG showing the point location of Existing Road Crossings based on 2010 LIDAR data and River.shp.
Future Road Crossing.shp	Lancaster County Grid US Feet	Future Road Crossing Locations. Shapefile generated by TFG showing the point location of Future Road Crossings based on conceptual level design plans.

Models

Models/Hydraulics

File	Description
UpWagonTrainWshd.prj	HEC-RAS modeling project file. This file was generated by TFG as described in the Master Plan.
UpWagonTrainWshd.p05	HEC-RAS modeling plan file for the <i>Existing Flood Prone Area</i> delineation.
UpWagonTrainWshd.p02	HEC-RAS modeling plan file for the <i>Future Flood Prone Area</i> delineation.
UpWagonTrainWshd.p03	HEC-RAS modeling plan file for the <i>Preliminary Culvert Sizing</i> analysis.
UpWagonTrainWshd.g06	HEC-RAS modeling geometry data file for existing conditions (<i>EXISTING</i>).
UpWagonTrainWshd.g01	HEC-RAS modeling geometry data file for future conditions (<i>FUTURE</i>). This file contains future inline weirs and existing culverts.
UpWagonTrainWshd.g08	HEC-RAS modeling geometry data file for preliminary culvert sizing analysis (<i>FU CULV</i>).
UpWagonTrainWshd.f02	HEC-RAS modeling steady flow data file for existing conditions (<i>EX Q</i>).
UpWagonTrainWshd.f01	HEC-RAS modeling steady flow data file for future peak flows conditions (<i>FU Q</i>).
UpperWagonTrainWshd2016.hy8	HY8 modeling project file. This file was generated by TFG as described in the Master Plan.

Models/Hydrology

File	Description
UpperWagonTrainWshd.prj	HEC-HMS modeling project file. This file was generated by TFG as described in the Master Plan.
002yr24hr.met	HEC-HMS Meteorologic Model file for the 2 year – 24 hour event.
010yr24hr.met	HEC-HMS Meteorologic Model file for the 10 year – 24 hour event.
050yr24hr.met	HEC-HMS Meteorologic Model file for the 50 year – 24 hour event.
100yr24hr.met	HEC-HMS Meteorologic Model file for the 100 year – 24 hour event.
500yr24hr.met	HEC-HMS Meteorologic Model file for the 500 year – 24 hour event.
002yr24hr.met	HEC-HMS Meteorologic Model file for the 2 year – 24 hour event.
Existing_Basin.basin	HEC-HMS Basin Model file for existing conditions using the SCS Lag method developing the Runoff Hydrograph. This file is intended for use with the 50, 100, and 500 year – 24 hour Meteorologic Models.
Existing_TR55.basin	HEC-HMS Basin Model file for existing conditions using the TR55 method developing the Runoff Hydrograph. This file is intended for use with the 50, 100, and 500 year – 24 hour Meteorologic Models.
Future_Basin.basin	HEC-HMS Basin Model file for future conditions using the SCS Lag method developing the Runoff Hydrograph. This file is intended for use with the 50, 100, and 500 year – 24 hour Meteorologic Models.
Future_TR55.basin	HEC-HMS Basin Model file for future conditions using the TR55 Lag method developing the Runoff Hydrograph. This file is intended for use with the 50, 100, and 500 year – 24 hour Meteorologic Models.

Note: Model support files, which are not described above, are also included with this submittal.

