USGS Deliverable Manifest

SFCO2014 Regional LiDAR Project

**Objective:** The following tables summarize deliverable content provided for relevant project tasks corresponding to USGS deliverables as stipulated in USGS tm11-B4 version 1.2.

# metadata

| **Item** | **Deliverable** | **Data File Name** | **Description** | **Format** | **Folder** |
| --- | --- | --- | --- | --- | --- |
| 1 | collection report | SantaFeLiDARReportFinal\_V2.pdf | Flight collection documentation including GPS base station, control and preprocessing and calibration. | PDF/TXT | collection\_report |
| 2 | survey report | 20140344 Santa Fe Control Report REVISED 10-27-2014 SIGNED.pdf | Survey control report | PDF | survey\_report |
| 3 | survey report | SFCO2014\_BHI\_SURVEY\_MONUMENT.shp | Spatial representation of survey control | ESRI Shapefile | survey\_report |
| 4 | survey report | SFCO2014\_BHI\_SURVEY\_MONUMENT.xml | Survey control FGDC-compliant metadata | XML (USGS) & err (mp error free report) | survey\_report |
| 5 | survey report | SFCO2014\_LiDAR\_SUPPLEMENTAL\_CONTROL.shp | Supplemental LiDAR control FGDC-compliant metadata | ESRI Shapefile | survey\_report |
| 6 | survey report | SFCO2014\_LiDAR\_SUPPLEMENTAL\_CONTROL.xml | Spatial representation of supplemental LiDAR control | XML (USGS) & err (mp error free report) | survey\_report |
| 7 | survey report | SFCO2014\_LiDAR\_CHECK\_POINTS.shp | Spatial representation of independent checkpoints for LiDAR control | ESRI Shapefile | survey\_report |
| 8 | survey report | SFCO2014\_LiDAR\_CHECK\_POINTS.shp | Independent checkpoints FGDC-compliant metadata | XML (USGS) & err (mp error free report) | survey\_report |
| 9 | survey report | SFCO2014\_LiDAR\_CHECK\_POINTS\_OPUS\_REPORT.txt | Independent checkpoints OPUS-Projects Solution Report metadata & Project Survey Report Signed | TXT/PDF | survey\_report |
| 10 | processing report | SFCO2014\_Processing\_Report.pdf | Overall project processing | PDF | processing\_report |
| 11 | QA/QC report | SFCO2014\_QAQC\_Report.pdf | Absolute vertical accuracy assessment | PDF | qa\_report |
| 12 | QA/QC report | SFCO2014\_VERTICAL\_NSSDA.xlsx | QA/QC report – vertical FGDC template | MS Excel | qa\_report |
| 13 | QA/QC report | SFCO2014\_HORIZONTAL\_NSSDA.xls | QA/QC report – horizontal FGDC template | MS Excel | qa\_report |
| 14 | extents | sfco2014\_extents.shp | Digital spatial representation of LiDAR DEM product coverage. | ESRI Shapefile | metadata |
| 15 | overall project product metadata | sfco2014\_extents.xml | Describes project boundary, intent data collection types/sources, & deliverables. | XML (USGS) & err (mp error free report) | metadata |
| 16 | lift product metadata | SFCO2014\_LiDAR\_SWATH.shp | Describes LiDAR swath spatial extents of raw unclassified points cloud files (409) calibrated by swath with lift attribution. | ESRI Shapefile | raw\_point\_cloud |
| 17 | lift product metadata | SFCO2014\_LiDAR\_SWATH.xml | Describes swath spatial extents. | XML (USGS) & err (mp error free report) | raw\_point\_cloud |
| 18 | lift product metadata | SFCO2014\_LiDAR\_FLIGHT\_TRAJECTORIES.shp | Spatial LiDAR flight trajectories adjusted and controlled from flight acquisition | ESRI Shapefile | raw\_point\_cloud |
| 19 | lift product metadata | SFCO2014\_LiDAR\_FLIGHT\_TRAJECTORIES.xml | LiDAR flight acquisition FGDC-compliant metadata | XML (USGS) & err (mp error free report) | raw\_point\_cloud |
| 20 | classified point product metadata | sfco2014\_pc.xml | Classified point cloud FGDC-compliant metadata. | XML (USGS) & err (mp error free report) | metadata |
| 21 | bare-earth DEM product metadata | sfco2014\_dem.xml | Bare-earth DEM FGDC-compliant metadata. | XML (USGS) & err (mp error free report) | metadata |
| 22 | breaklines product metadata | sfco2014\_bl.xml | breaklines FGDC-compliant metadata. | XML (USGS) & err (mp error free report) | metadata |
| 23 | extents | USGS\_tile\_index\_5000.shp | Spatial USGS tile index of product group datasets. | ESRI Shapefile | metadata |

# raw\_point\_cloud

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| **Item** | **Deliverable** | **Data File Name** | **Description** | **Format** | **Folder** |
| 1 | raw point cloud | Strip\_{SourceID}.las | Fully calibrated, georeferenced raw unclassified points cloud files (409) calibrated by swath. | ASPRS LAS v1.4, PDRF=6, Classification=0 | raw\_point\_cloud |

# classified\_point\_cloud

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| **Item** | **Deliverable** | **Data File Name** | **Description** | **Format** | **Folder** |
| 1 | classified point cloud | pc{EEEENNNN).las | Classified points cloud files (3627) classified according to minimum USGS classification scheme; first four coordinate values are easting (EEEE) and northing (NNNN). | ASPRS LAS v1.4, PDRF=6 | classified\_point\_cloud |

# bare\_earth\_surface

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| **Item** | **Deliverable** | **Data File Name** | **Description** | **Format** | **Folder** |
| 1 | raster digital  elevation model (DEM) | dem{EEEENNNN).tif | Point cloud/breakline derived (2 ft resolution) hydro-flattened DEM files (3627) in USGS scheme; first four coordinate values are easting (EEEE) and northing (NNNN). | GeoTiff 32-bit Raster DEM | bare\_earth\_surface |

# breaklines

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| **Item** | **Deliverable** | **Data File Name** | **Description** | **Format** | **Folder** |
| 1 | breaklines | bl{EEEENNNN).las | Breakline data integrated into terrain modeling of derivative DEM (XXX) in USGS scheme; first four coordinate values are easting (EEEE) and northing (NNNN). | ESRI Shapefile (PolylineZ) | breakline |
| 2 | breaklines | area{EEEENNNN).las | Area data utilized in terrain modeling (e.g. bridge classification/waterbody flattening) of derivative DEM (XXX) in USGS scheme; first four coordinate values are easting (EEEE) and northing (NNNN). | ESRI Shapefile (PolygonZ) | breakline |