



Fugro EarthData's Accuracy Assessment Form ( QC Master)

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Coordinate System: UTM Horizontal Datum: NAD83(2011) UTM Zone or SPC State name: UTM zone 14 N QC Points Source: Full GCP For Elevation purposes use ONLY: RMSE Enter Value in GSD: 0.09 (Meter) Units: Product type: GSD/Post Spacing: Vertical Datum: Vertical Accuracy Value Supported Height RMSE According to Map Scale: 1.80 (Meter)

Table with columns: Block ID, Point ID, Block/Model/Sheet ID, Orthostereo/DEM measured by Fugro EarthData (UTM zone 14 N, NAD83(2011), NAVD88/Geoid12a), QA/QC Points as surveyed in the Field (Easting (E), Northing (N), Elevation (H)), Residual error = Measured coordinates - surveyed coordinates (dE, dN, dH), Normalized error = Residuals - bias (dE, dN, dH), Comments

LEGENDS: Orange Point ID -> 1 > 2\*RMSE RED AE,AN,AH -> 1 > 95% of NSSDA Accuracy Computations (before bias removal): GSD = 0.7 m (Meter) Supported Mapping Scale: 6.00 Number of check points: 0 Mean (Bias): No Data No Data -0.21 No Data 0.00 StDEV: No Data No Data 0.05 No Data No Data 0.05 RMSE: No Data No Data 0.05 No Data No Data 0.05 <<<<< Normalized RMSE after bias

ASPRS Horizontal RMSE (E) = No Data Max. Allowable RMSE in N = 5.68 (Meter) Horizontal RMSE (N) = No Data Max. Allowable RMSE in E = 5.68 (Meter) Circular RMSE = No Data Max. Allowable circular RMSE = 8.03 (Meter) Vertical RMSE = 0.05 Passed :) Max. Allowable RMSE in Height = 0.09 (Meter)

NSSDA Horizontal tested at 95% = No Data Max. Allowable Horizontal Error at 95% = 13.90 (Meter) Vertical tested at 95% = (1.96\*RMSE) = 0.09 Passed :) Max. Allowable Vertical Error at 95% = 0.18 (Meter)

National Maps Accuracy (NMAS) Horizontal Accuracy at 90% = No Data Max. Allowable Horizontal Error at 90% = 12.19 (Meter) Vertical Accuracy at 90% = 0.08 Passed :) Max. Allowable Vertical Error at 90% = 0.15 (Meter)

Normalized Accuracy Computations (after bias removal):

ASPRS Horizontal RMSE (E) = No Data Max. Allowable RMSE in N & E = 5.68 (Meter) Horizontal RMSE (N) = No Data Max. Allowable RMSE in E = 5.68 (Meter) Circular RMSE = No Data Max. Allowable circular RMSE = 8.03 (Meter) Vertical RMSE = 0.05 Passed :) Max. Allowable RMSE in Height = 0.09 (Meter)

NSSDA Horizontal tested at 95% = No Data Max. Allowable Horizontal Error at 95% = 13.90 (Meter) Vertical tested at 95% = (1.96\*RMSE) = 0.09 Passed :) Max. Allowable Vertical Error at 95% = 0.18 (Meter)

National Maps Accuracy (NMAS) Horizontal Accuracy at 90% = No Data Max. Allowable Horizontal Error at 90% = 12.19 (Meter) Vertical Accuracy at 90% = 0.08 Passed :) Max. Allowable Vertical Error at 90% = 0.15 (Meter)

Bias Treatment Summary

To remove the vertical bias's effect from the elevation, Raise the vector/DEM data by 0.013 (Meter) To remove the horizontal bias's effect from planimetric E, No Data the vector EASTING the value No Data (Meter) To remove the horizontal bias's effect from planimetric N, No Data the vector NORTHING the value No Data (Meter)