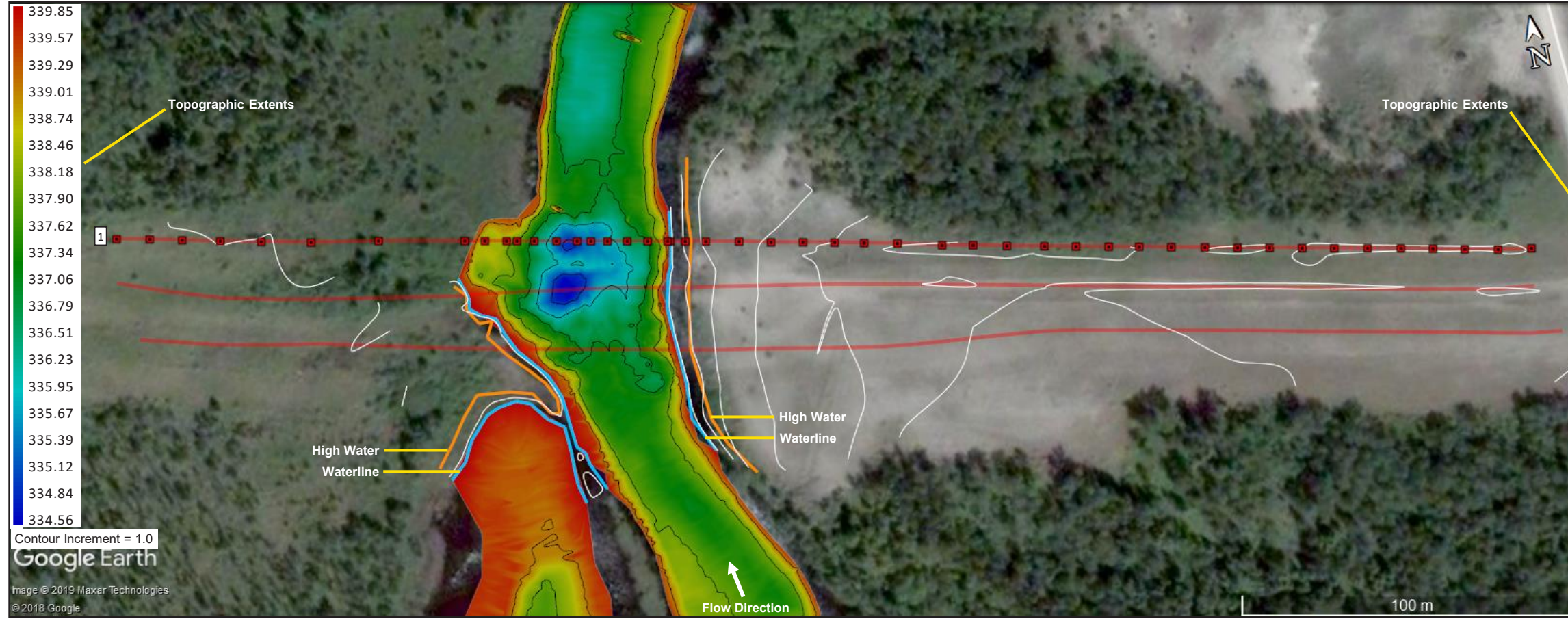


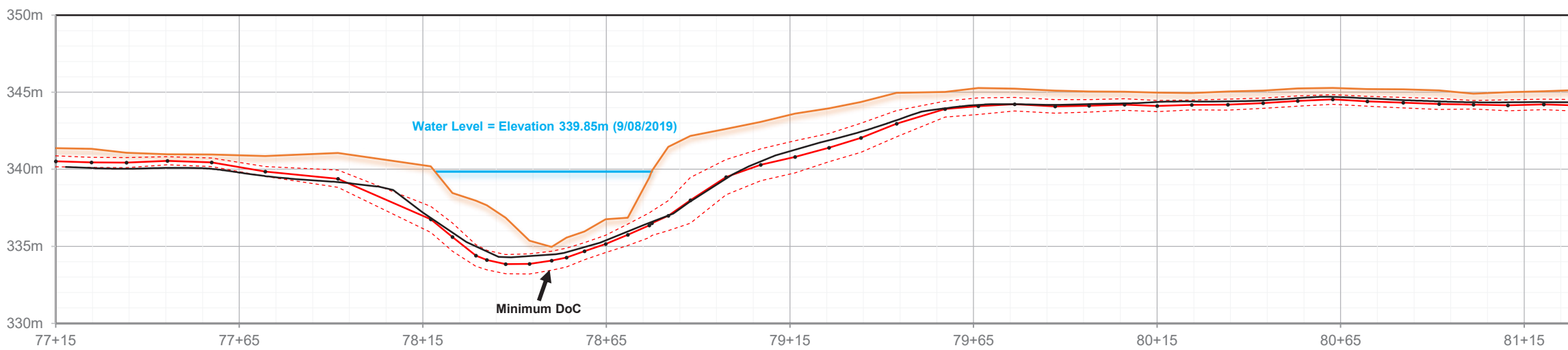
PLAN VIEW



DoC DATA

| Pt. ID | STA# | Latitude | Longitude | Topo Elev. (m) | T.O.P. Elev. (m) | DoC (m) | MS DoC* (m) |
|--------|-------|----------|-----------|----------------|------------------|---------|-------------|
| 1 | 77+15 | | | 341.37 | 340.52 | 0.85 | 0.49 |
| 2 | 77+25 | | | 341.32 | 340.45 | 0.88 | 0.55 |
| 3 | 77+35 | | | 341.07 | 340.43 | 0.65 | 0.32 |
| 4 | 77+46 | | | 340.98 | 340.55 | 0.43 | 0.17 |
| 5 | 77+58 | | | 340.96 | 340.45 | 0.50 | 0.23 |
| 6 | 77+72 | | | 340.86 | 339.86 | 1.00 | 0.68 |
| 7 | 77+92 | | | 341.05 | 339.38 | 1.67 | 1.11 |
| 8 | 78+18 | | | 340.19 | 336.75 | 3.44 | 2.59 |
| 9 | 78+23 | | | 338.46 | 335.60 | 2.86 | 1.94 |
| 10 | 78+30 | | | 337.96 | 334.40 | 3.56 | 2.86 |
| 11 | 78+33 | | | 337.66 | 334.11 | 3.55 | 2.91 |
| 12 | 78+38 | | | 336.86 | 333.84 | 3.02 | 2.40 |
| 13 | 78+44 | | | 335.36 | 333.86 | 1.50 | 0.84 |
| 14 | 78+50 | | | 334.96 | 334.06 | 0.89 | 0.28 |
| 15 | 78+55 | | | 335.56 | 334.27 | 1.29 | 0.68 |
| 16 | 78+59 | | | 335.96 | 334.68 | 1.28 | 0.72 |
| 17 | 78+65 | | | 336.76 | 335.15 | 1.61 | 1.05 |
| 18 | 78+71 | | | 336.86 | 335.75 | 1.11 | 0.41 |
| 19 | 78+77 | | | 339.46 | 336.36 | 3.10 | 2.30 |
| 20 | 78+78 | | | 339.89 | 336.50 | 3.39 | 2.61 |
| 21 | 78+82 | | | 341.45 | 336.99 | 4.46 | 3.49 |
| 22 | 78+88 | | | 342.17 | 337.99 | 4.18 | 2.69 |
| 23 | 78+98 | | | 342.62 | 339.49 | 3.13 | 1.98 |
| 24 | 79+07 | | | 343.07 | 340.30 | 2.77 | 1.73 |
| 25 | 79+17 | | | 343.62 | 340.81 | 2.81 | 1.77 |
| 26 | 79+26 | | | 343.96 | 341.41 | 2.55 | 1.64 |
| 27 | 79+35 | | | 344.36 | 342.04 | 2.32 | 1.38 |
| 28 | 79+44 | | | 344.96 | 342.96 | 2.00 | 1.15 |
| 29 | 79+58 | | | 345.02 | 343.91 | 1.11 | 0.59 |
| 30 | 79+67 | | | 345.27 | 344.09 | 1.18 | 0.64 |
| 31 | 79+77 | | | 345.23 | 344.22 | 1.01 | 0.57 |
| 32 | 79+88 | | | 345.11 | 344.08 | 1.02 | 0.58 |
| 33 | 79+97 | | | 345.05 | 344.12 | 0.93 | 0.52 |
| 34 | 80+06 | | | 345.04 | 344.20 | 0.84 | 0.46 |
| 35 | 80+15 | | | 344.97 | 344.11 | 0.87 | 0.50 |
| 36 | 80+25 | | | 344.95 | 344.18 | 0.77 | 0.45 |
| 37 | 80+35 | | | 345.05 | 344.20 | 0.85 | 0.49 |
| 38 | 80+44 | | | 345.11 | 344.29 | 0.82 | 0.48 |
| 39 | 80+54 | | | 345.25 | 344.43 | 0.82 | 0.48 |
| 40 | 80+63 | | | 345.28 | 344.53 | 0.75 | 0.44 |
| 41 | 80+73 | | | 345.20 | 344.41 | 0.78 | 0.47 |
| 42 | 80+82 | | | 345.19 | 344.32 | 0.87 | 0.53 |
| 43 | 80+92 | | | 345.12 | 344.24 | 0.89 | 0.54 |
| 44 | 81+02 | | | 344.91 | 344.19 | 0.71 | 0.43 |
| 45 | 81+11 | | | 345.01 | 344.16 | 0.85 | 0.50 |

PROFILE VIEW



Land Data
Underwater Data
Italics = Projected topo or bathymetric points and DoC / MSDoC

LEGEND

- Water Level
- Topo / Bathymetry
- Projected Topo / Bathymetry
- +VSDV
- T.O.P. Point
- No Data (obstruction, loss of signal)
- Overlaid Data (if applicable)

DEFINITIONS

DoC - Depth of Cover

T.O.P. - Top of Pipe (or Cable, Conduit, etc.)

+VSDV - Positive aspect of vertical confidence level. Represents a 95% likelihood that the true position of the target lies deeper than this point.

MSDoC* - Minimum Statistical Depth of Cover. This reflects the measured distance from the +VSDV component to the Topo / Bathymetry line.

GEODETIC SETTINGS

PLOT NOTES

Overlaid data has been adjusted 0.25 m in elevation to illustrate a more precise comparison to DoC Mapping's depth of cover data.

CONTROL POINT VERIFICATION

CONTROL POINTS WERE ESTABLISHED AND/OR REFERENCED BY DoC MAPPING TO ADJUST FOR HORIZONTAL AND VERTICAL VARIANCE DURING THE TIME OF THIS SURVEY. INFORMATION FOR THE CONTROL POINTS BELOW:

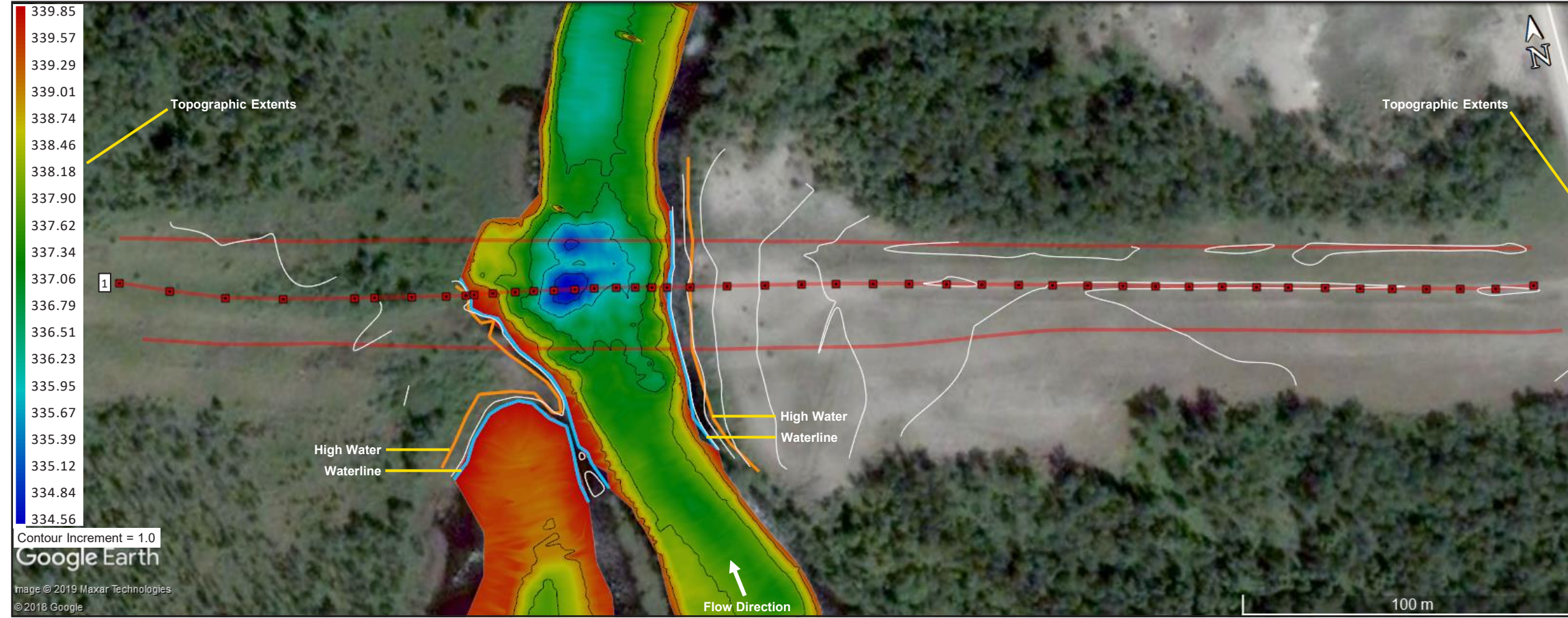
PLEASE REFER TO THE "CONTROL POINT VERIFICATION SHEET" FOR MORE DETAILS ON THE CONTROL POINT(S) AND DoC MAPPING'S OBSERVATIONS.

DoC MAPPING DEPTH OF COVER STUDY
DATE(S): 9/08/2019

IMU Data Overlay

PREPARED FOR:

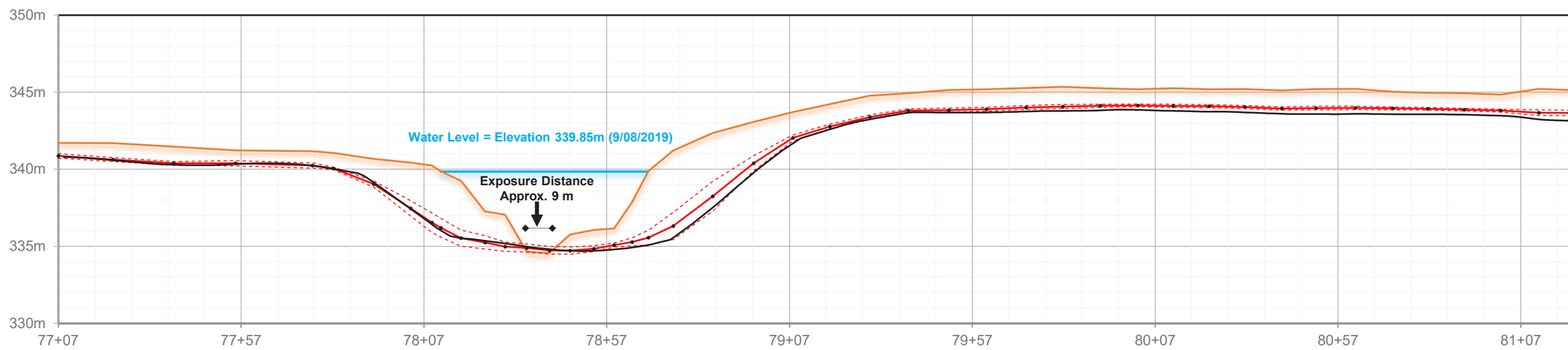
PLAN VIEW



DoC DATA

| Pt. ID | STA# | Latitude | Longitude | Topo Elev. (m) | T.O.P. Elev. (m) | DoC (m) | MS DoC* (m) |
|--------|-------|----------|-----------|----------------|------------------|---------|-------------|
| 1 | 77+07 | | | 341.71 | 340.87 | 0.85 | 0.70 |
| 2 | 77+22 | | | 341.69 | 340.63 | 1.07 | 0.94 |
| 3 | 77+39 | | | 341.47 | 340.39 | 1.08 | 0.96 |
| 4 | 77+56 | | | 341.23 | 340.39 | 0.84 | 0.67 |
| 5 | 77+77 | | | 341.18 | 340.25 | 0.93 | 0.76 |
| 6 | 77+83 | | | 341.06 | 340.05 | 1.01 | 0.92 |
| 7 | 77+94 | | | 340.67 | 339.04 | 1.63 | 1.43 |
| 8 | 78+04 | | | 340.43 | 337.46 | 2.97 | 2.47 |
| 9 | 78+10 | | | 340.25 | 336.54 | 3.71 | 3.07 |
| 10 | 78+12 | | | 339.86 | 336.20 | 3.66 | 3.05 |
| 11 | 78+18 | | | 339.26 | 335.53 | 3.73 | 3.21 |
| 12 | 78+24 | | | 337.26 | 335.25 | 2.01 | 1.58 |
| 13 | 78+30 | | | 337.06 | 334.98 | 2.08 | 1.78 |
| 14 | 78+36 | | | 334.66 | 334.89 | -0.23 | -0.50 |
| 15 | 78+42 | | | 334.56 | 334.74 | -0.18 | -0.43 |
| 16 | 78+47 | | | 335.76 | 334.72 | 1.04 | 0.80 |
| 17 | 78+54 | | | 336.06 | 334.84 | 1.22 | 1.03 |
| 18 | 78+59 | | | 336.16 | 335.08 | 1.08 | 0.94 |
| 19 | 78+64 | | | 337.86 | 335.28 | 2.57 | 2.31 |
| 20 | 78+69 | | | 339.88 | 335.57 | 4.31 | 3.84 |
| 21 | 78+76 | | | 341.21 | 336.32 | 4.89 | 4.01 |
| 22 | 78+86 | | | 342.34 | 338.24 | 4.10 | 3.14 |
| 23 | 78+98 | | | 343.07 | 340.38 | 2.69 | 2.20 |
| 24 | 79+08 | | | 343.71 | 342.03 | 1.68 | 1.49 |
| 25 | 79+18 | | | 344.23 | 342.77 | 1.46 | 1.31 |
| 26 | 79+29 | | | 344.77 | 343.39 | 1.38 | 1.24 |
| 27 | 79+40 | | | 344.94 | 343.82 | 1.12 | 1.01 |
| 28 | 79+51 | | | 345.15 | 343.84 | 1.30 | 1.17 |
| 29 | 79+61 | | | 345.19 | 343.89 | 1.29 | 1.17 |
| 30 | 79+72 | | | 345.27 | 344.01 | 1.26 | 1.13 |
| 31 | 79+82 | | | 345.35 | 344.07 | 1.28 | 1.15 |
| 32 | 79+92 | | | 345.26 | 344.12 | 1.14 | 1.04 |
| 33 | 80+03 | | | 345.18 | 344.14 | 1.04 | 0.95 |
| 34 | 80+12 | | | 345.26 | 344.11 | 1.15 | 1.04 |
| 35 | 80+22 | | | 345.19 | 344.09 | 1.10 | 1.00 |
| 36 | 80+32 | | | 345.21 | 344.04 | 1.17 | 1.07 |
| 37 | 80+42 | | | 345.12 | 343.95 | 1.18 | 1.07 |
| 38 | 80+51 | | | 345.21 | 343.97 | 1.24 | 1.12 |
| 39 | 80+62 | | | 345.21 | 343.98 | 1.23 | 1.11 |
| 40 | 80+73 | | | 345.04 | 343.95 | 1.09 | 0.99 |
| 41 | 80+82 | | | 344.96 | 343.92 | 1.04 | 0.96 |
| 42 | 80+92 | | | 344.93 | 343.87 | 1.06 | 0.97 |
| 43 | 81+02 | | | 344.85 | 343.81 | 1.04 | 0.95 |
| 44 | 81+12 | | | 345.22 | 343.67 | 1.56 | 1.37 |
| 45 | 81+24 | | | 345.12 | 343.65 | 1.48 | 1.30 |

PROFILE VIEW



Land Data

Underwater Data

Italics = Projected topo or bathymetric points and DoC / MSDoC

LEGEND

- Water Level
- Topo / Bathymetry
- Projected Topo / Bathymetry
- +VSDV
- T.O.P. Point
- No Data (obstruction, loss of signal)
- Overlaid Data (if applicable)

DEFINITIONS

DoC - Depth of Cover

T.O.P. - Top of Pipe (or Cable, Conduit, etc.)

+VSDV - Positive aspect of vertical confidence level. Represents a 95% likelihood that the true position of the target lies deeper than this point.

MSDoC* - Minimum Statistical Depth of Cover. This reflects the measured distance from the +VSDV component to the Topo / Bathymetry line.

GEODETIC SETTINGS

PLOT NOTES

Overlaid data has been adjusted 0.35 m in elevation to illustrate a more precise comparison to DoC Mapping's depth of cover data.

CONTROL POINT VERIFICATION

CONTROL POINTS WERE ESTABLISHED AND/OR REFERENCED BY DoC MAPPING TO ADJUST FOR HORIZONTAL AND VERTICAL VARIANCE DURING THE TIME OF THIS SURVEY. INFORMATION FOR THE CONTROL POINTS BELOW:

PLEASE REFER TO THE "CONTROL POINT VERIFICATION SHEET" FOR MORE DETAILS ON THE CONTROL POINT(S) AND DoC MAPPING'S OBSERVATIONS.

DoC MAPPING

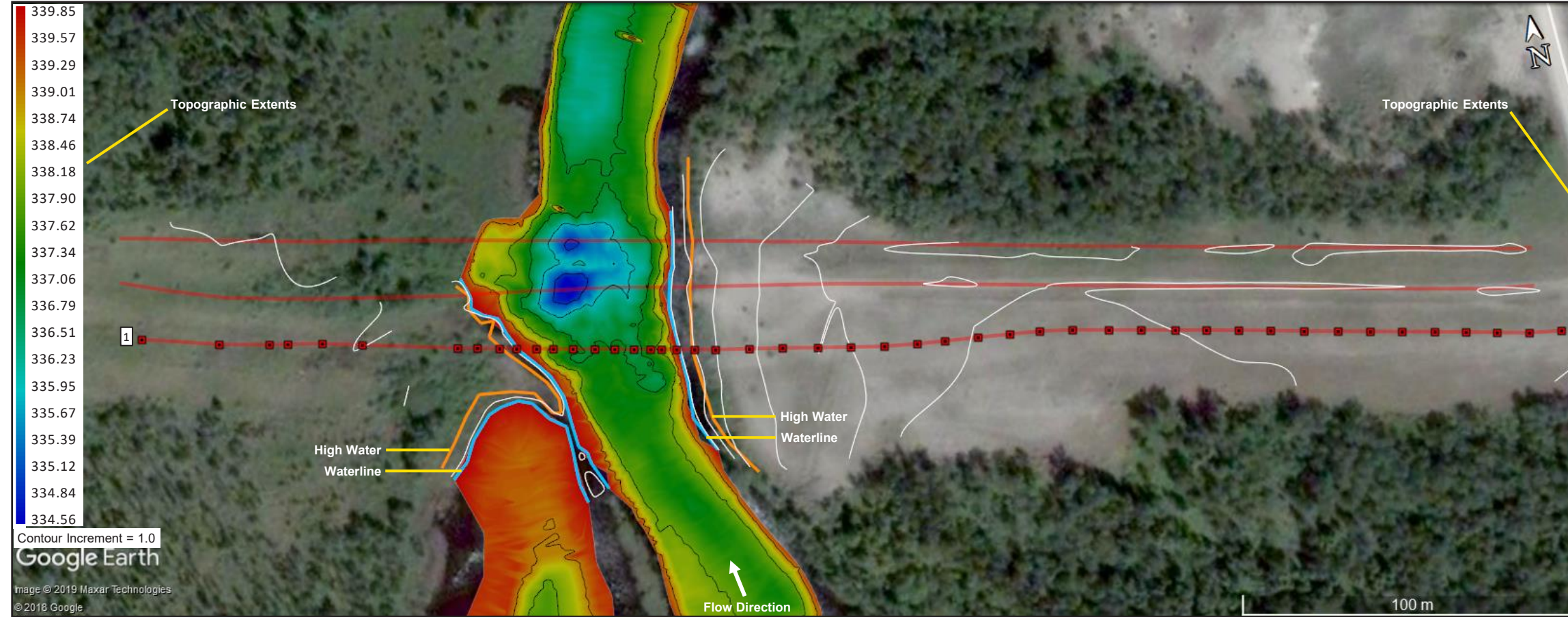
DEPTH OF COVER STUDY

DATE(S): 9/08/2019

IMU Data Overlay

PREPARED FOR:

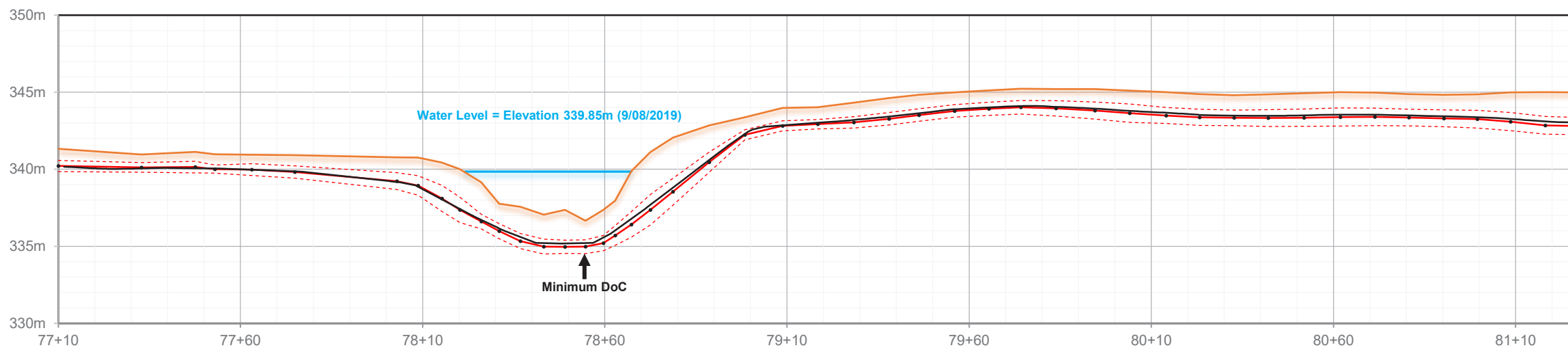
PLAN VIEW



DoC DATA

| Pt. ID | STA# | Latitude | Longitude | Topo Elev. (m) | T.O.P. Elev. (m) | DoC (m) | MS DoC* (m) |
|--------|-------|----------|-----------|----------------|------------------|---------|-------------|
| 1 | 77+10 | | | 341.33 | 340.21 | 1.12 | 0.76 |
| 2 | 77+33 | | | 340.95 | 340.12 | 0.83 | 0.51 |
| 3 | 77+48 | | | 341.13 | 340.14 | 0.98 | 0.61 |
| 4 | 77+53 | | | 340.97 | 340.01 | 0.96 | 0.70 |
| 5 | 77+64 | | | 340.95 | 339.98 | 0.97 | 0.58 |
| 6 | 77+75 | | | 340.92 | 339.82 | 1.10 | 0.70 |
| 7 | 78+03 | | | 340.77 | 339.23 | 1.54 | 1.00 |
| 8 | 78+09 | | | 340.76 | 338.95 | 1.81 | 1.18 |
| 9 | 78+16 | | | 340.43 | 338.11 | 2.33 | 1.48 |
| 10 | 78+21 | | | 340.01 | 337.37 | 2.64 | 1.81 |
| 11 | 78+26 | | | 339.16 | 336.61 | 2.55 | 2.07 |
| 12 | 78+31 | | | 337.76 | 335.98 | 1.78 | 1.28 |
| 13 | 78+37 | | | 337.56 | 335.34 | 2.22 | 1.73 |
| 14 | 78+44 | | | 337.06 | 334.98 | 2.08 | 1.60 |
| 15 | 78+49 | | | 337.36 | 334.97 | 2.39 | 1.96 |
| 16 | 78+55 | | | 336.66 | 334.98 | 1.68 | 1.24 |
| 17 | 78+60 | | | 337.36 | 335.21 | 2.15 | 1.65 |
| 18 | 78+63 | | | 337.96 | 335.70 | 2.26 | 1.62 |
| 19 | 78+68 | | | 339.88 | 336.42 | 3.46 | 2.63 |
| 20 | 78+73 | | | 341.12 | 337.37 | 3.75 | 2.76 |
| 21 | 78+79 | | | 342.05 | 338.54 | 3.51 | 2.64 |
| 22 | 78+89 | | | 342.85 | 340.46 | 2.39 | 1.74 |
| 23 | 78+99 | | | 343.37 | 342.24 | 1.13 | 0.80 |
| 24 | 79+09 | | | 343.99 | 342.82 | 1.17 | 0.84 |
| 25 | 79+19 | | | 344.03 | 342.93 | 1.11 | 0.80 |
| 26 | 79+29 | | | 344.33 | 343.05 | 1.28 | 0.91 |
| 27 | 79+38 | | | 344.62 | 343.28 | 1.34 | 0.94 |
| 28 | 79+47 | | | 344.83 | 343.52 | 1.32 | 0.91 |
| 29 | 79+56 | | | 344.99 | 343.79 | 1.20 | 0.80 |
| 30 | 79+66 | | | 345.12 | 343.93 | 1.19 | 0.77 |
| 31 | 79+75 | | | 345.23 | 344.03 | 1.20 | 0.76 |
| 32 | 79+84 | | | 345.21 | 343.95 | 1.26 | 0.76 |
| 33 | 79+95 | | | 345.21 | 343.81 | 1.40 | 0.85 |
| 34 | 80+04 | | | 345.10 | 343.64 | 1.46 | 0.87 |
| 35 | 80+14 | | | 345.01 | 343.49 | 1.51 | 0.99 |
| 36 | 80+24 | | | 344.88 | 343.38 | 1.50 | 0.98 |
| 37 | 80+33 | | | 344.80 | 343.34 | 1.46 | 0.96 |
| 38 | 80+42 | | | 344.86 | 343.33 | 1.53 | 0.99 |
| 39 | 80+52 | | | 344.93 | 343.35 | 1.58 | 1.02 |
| 40 | 80+62 | | | 345.01 | 343.39 | 1.62 | 1.02 |
| 41 | 80+72 | | | 344.97 | 343.40 | 1.57 | 1.00 |
| 42 | 80+81 | | | 344.88 | 343.36 | 1.52 | 0.98 |
| 43 | 80+91 | | | 344.84 | 343.31 | 1.53 | 0.98 |
| 44 | 81+00 | | | 344.87 | 343.25 | 1.61 | 1.04 |
| 45 | 81+09 | | | 344.99 | 343.09 | 1.89 | 1.31 |

PROFILE VIEW



Land Data
Underwater Data
Italics = Projected topo or bathymetric points and DoC / MSDoC

LEGEND

- Water Level
- Topo / Bathymetry
- Projected Topo / Bathymetry
- +VSDV
- T.O.P. Point
- No Data (obstruction, loss of signal)
- Overlaid Data (if applicable)

DEFINITIONS

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MSDoC* - Minimum Statistical Depth of Cover. This reflects the measured distance from the +VSDV component to the Topo / Bathymetry line.

GEODETIC SETTINGS

PLOT NOTES

Overlaid data has not been adjusted.

CONTROL POINT VERIFICATION

CONTROL POINTS WERE ESTABLISHED AND/OR REFERENCED BY DoC MAPPING TO ADJUST FOR HORIZONTAL AND VERTICAL VARIANCE DURING THE TIME OF THIS SURVEY. INFORMATION FOR THE CONTROL POINTS BELOW:

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DOc MAPPING DEPTH OF COVER STUDY
DATE(S): 9/08/2019

IMU Data Overlay

PREPARED FOR: