

Figure 8-2: Proposed geotechnical location WTG-2-4 in Corridor 12 along line TLB14_FAST_MIG_PSDEMUL1

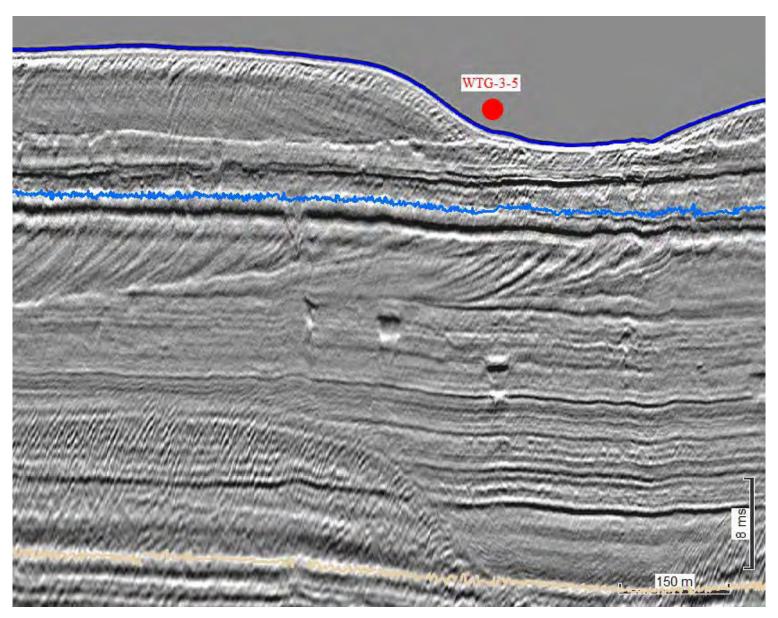


Figure 8-3: Proposed geotechnical location WTG-3-5 in Corridor 12 along line TLB20_FAST_MIG_PSDEMUL1

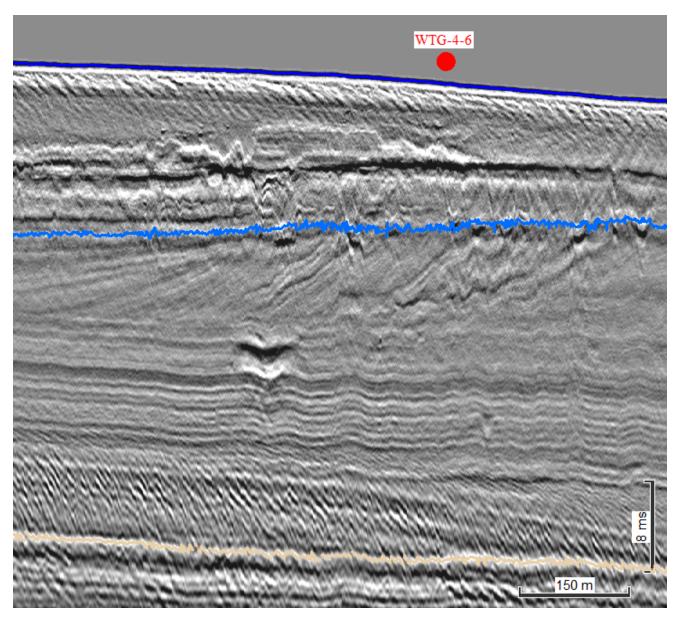


Figure 8-4: Proposed geotechnical location WTG-4-6 in Corridor 12 along line TLB26_FAST_MIG_PSDEMUL1

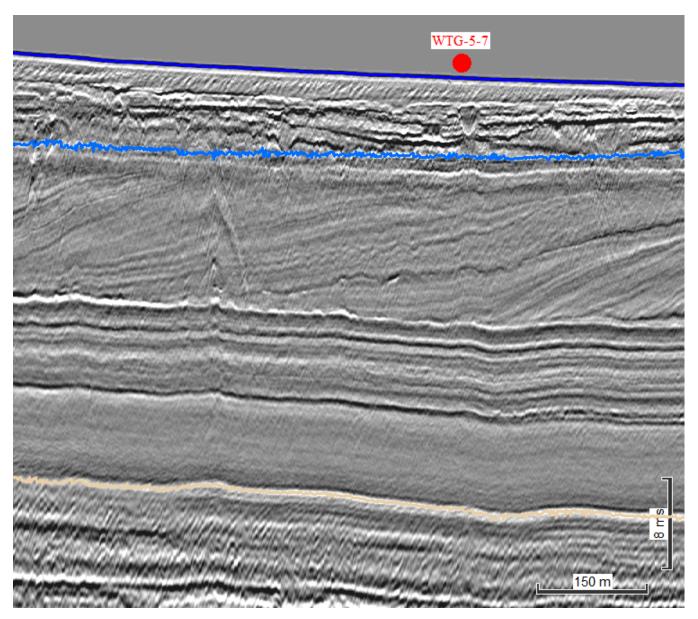


Figure 8-5: Proposed geotechnical location WTG-5-7 in Corridor 12 along line TLB32_FAST_MIG_PSDEMUL1

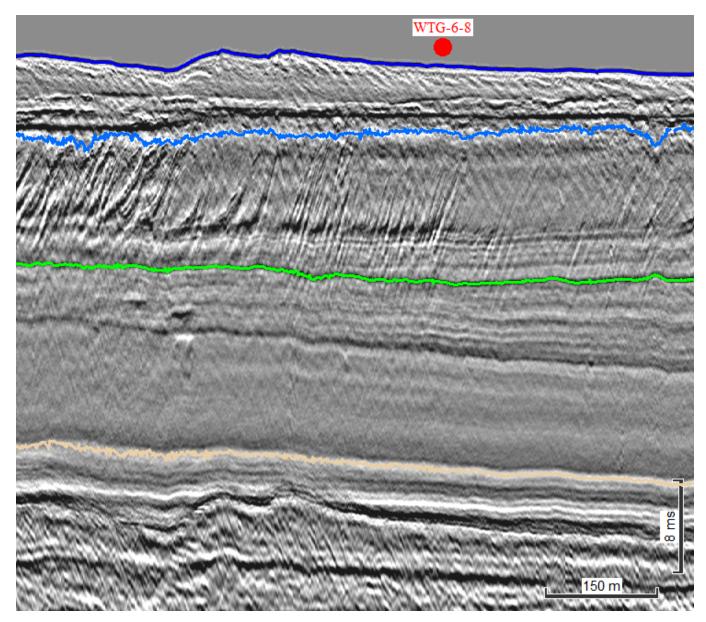


Figure 8-6: Proposed geotechnical location WTG-6-8 in Corridor 12 along line TLB38_01_FAST_MIG_PSDEMULI

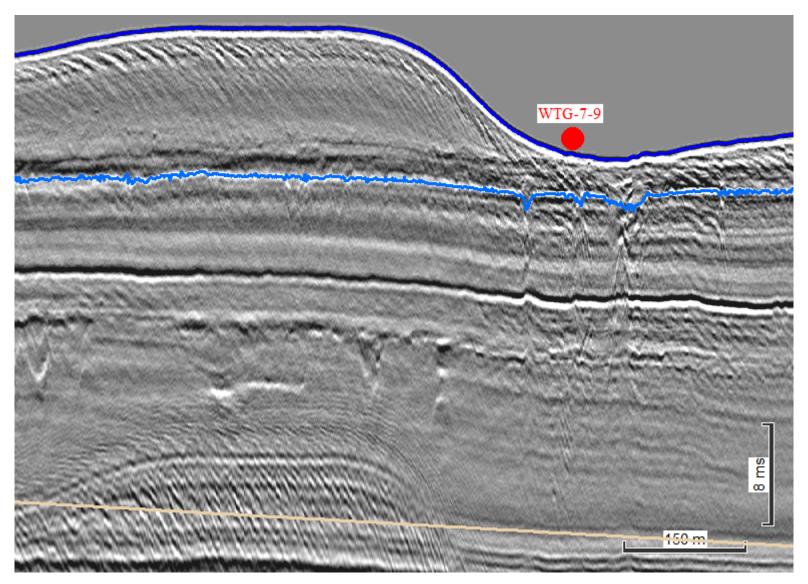


Figure 8-7: Proposed geotechnical location WTG-7-9 in Corridor 12 along line TLB44_01_FAST_MIG_PSDEMUL1

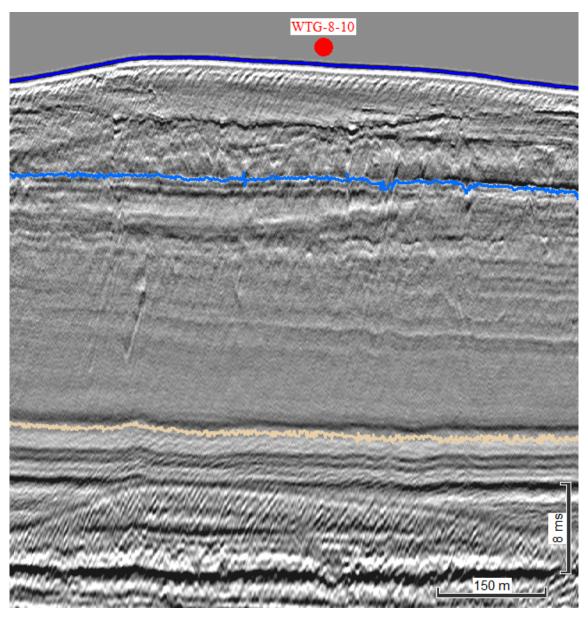


Figure 8-8: Proposed geotechnical location WTG-8-10 in Corridor 12 along line TLB50_01_FAST_MIG_PSDEMUL1

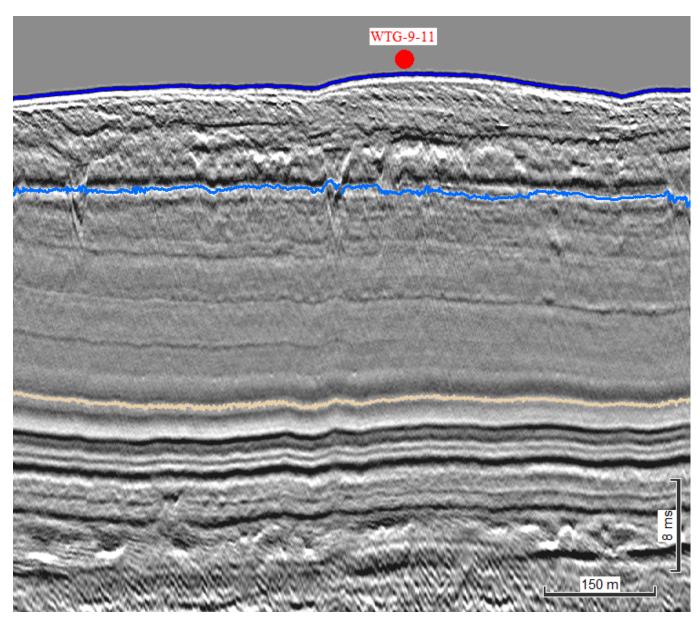


Figure 8-9: Proposed geotechnical location WTG-9-11 in Corridor 12 along line TLB56_FAST_MIG_PSDEMUL1

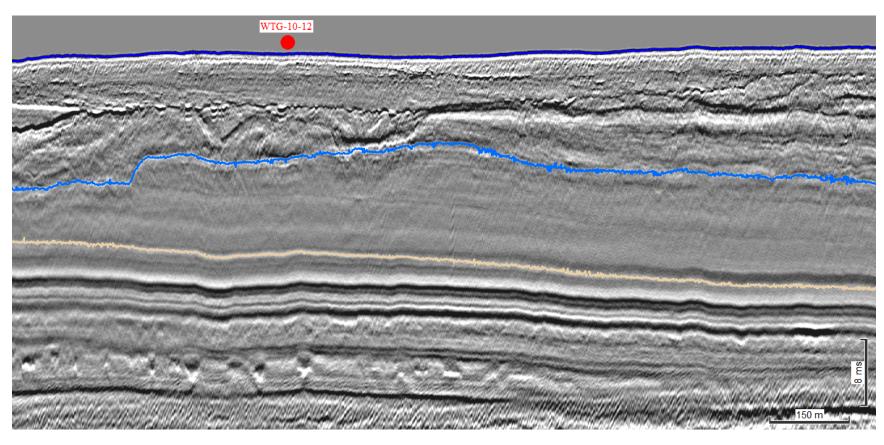


Figure 8-10: Proposed geotechnical location WTG-10-12 in Corridor 12 along line TLB62_01_FAST_MIG_PSDEMUL1

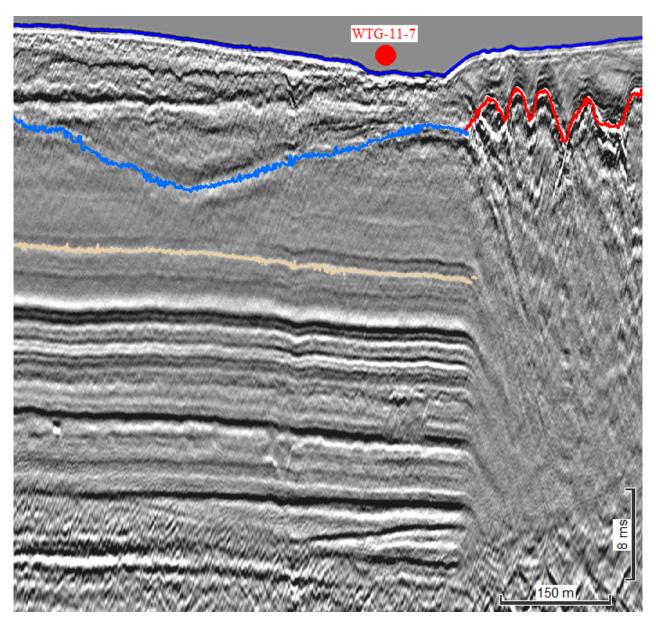


Figure 8-11: Proposed geotechnical location WTG-11-7 in Corridor 12 along line TLB68_FAST_MIG_PSDEMUL1

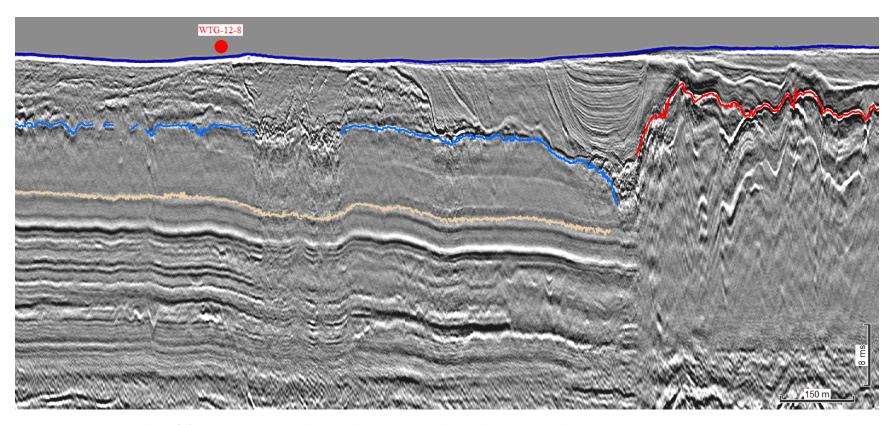


Figure 8-12: Proposed geotechnical location WTG-12-8 in Corridor 12 along line TLB74A_FAST_MIG_PSDEMUL1

APPENDIX 9 SUB-BOTTOM PROFILE IMAGES FOR CORRIDOR 20

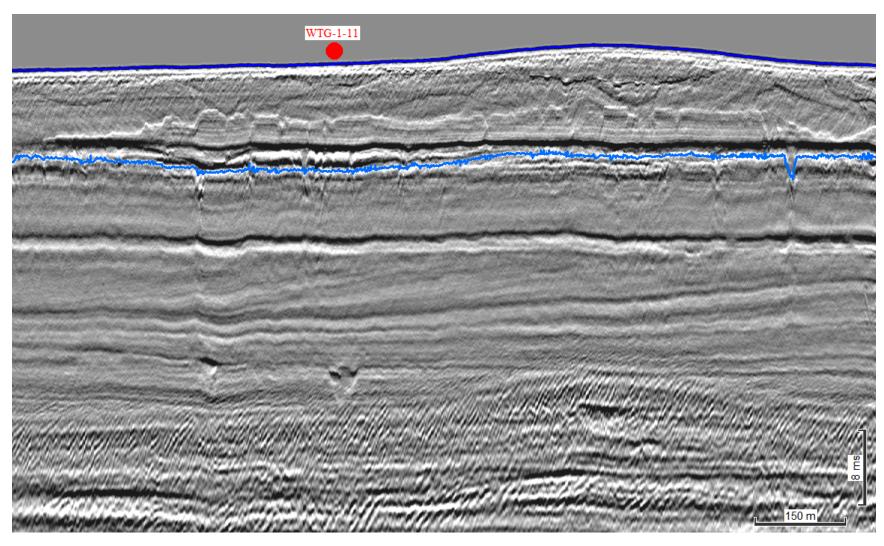


Figure 9-1: Proposed geotechnical location WTG-1-11 in Corridor 20 along line TLB32_FAST_MIG_PSDEMUL1

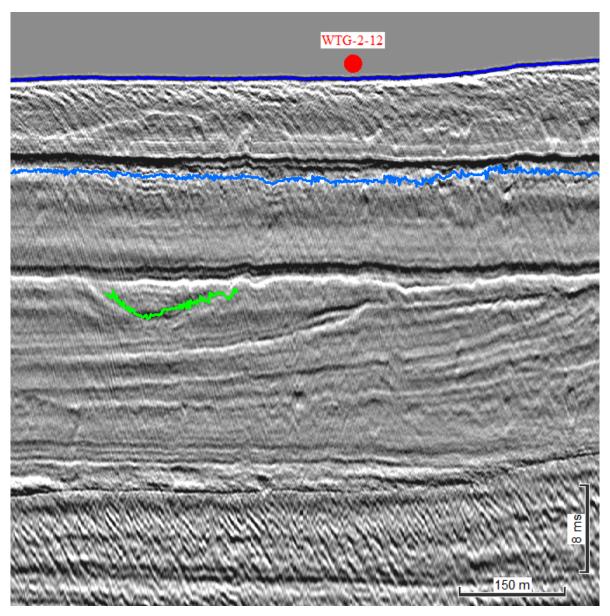


Figure 9-2: Proposed geotechnical location WTG-2-12 in Corridor 20 along line TLB38_FAST_MIG_PSDEMUL1

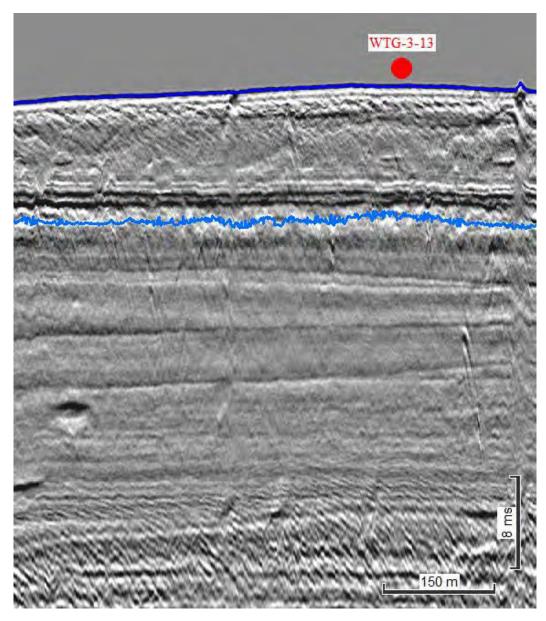


Figure 9-3: Proposed geotechnical location WTG-3-13 in Corridor 20 along line TLB44_FAST_MIG_PSDEMUL1

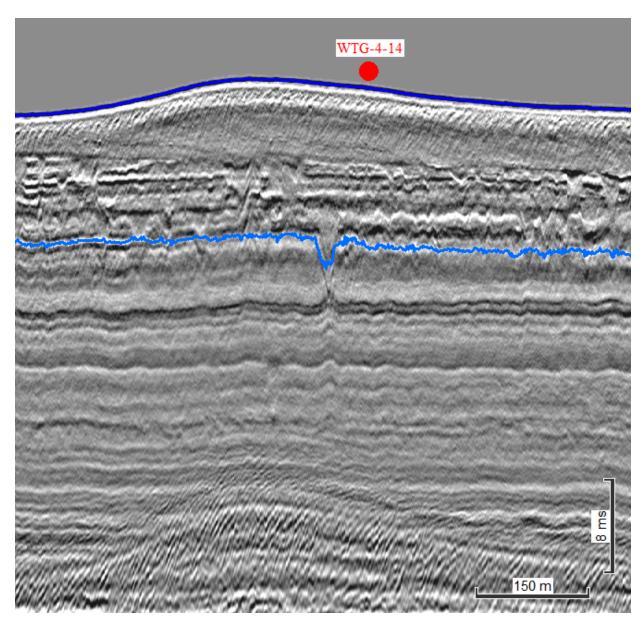


Figure 9-4: Proposed geotechnical location WTG-4-14 in Corridor 20 along line TLB50_01_FAST_MIG_PSDEMUL1

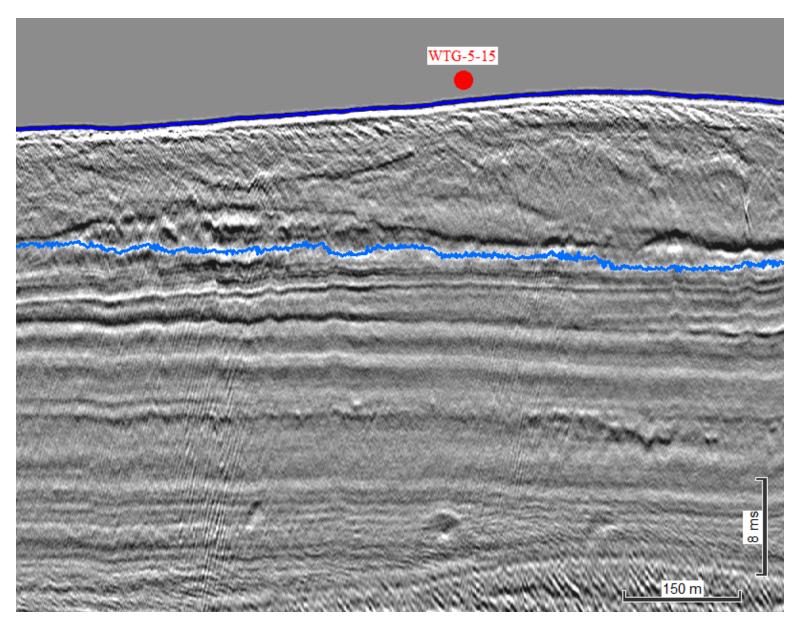


Figure 9-5: Proposed geotechnical location WTG-5-15 in Corridor 20 along line TLB56_FAST_MIG_PSDEMUL1

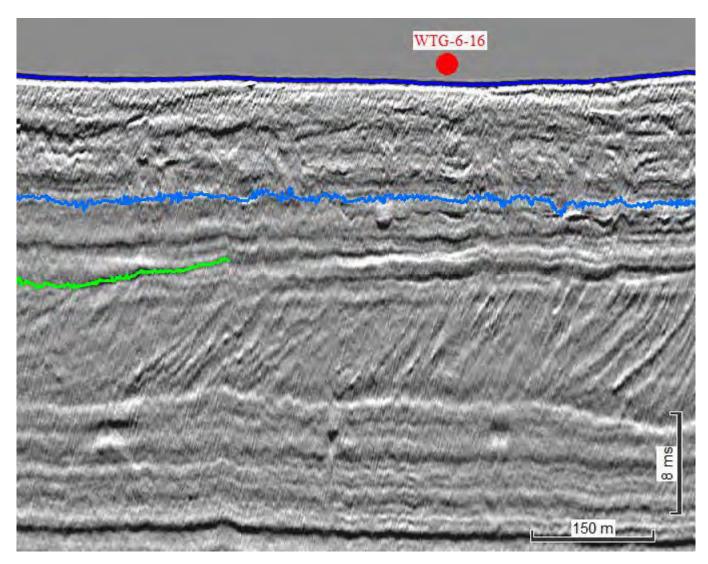


Figure 9-6: Proposed geotechnical location WTG-6-16 in Corridor 20 along line TLB62_01_FAST_MIG_PSDEMUL1

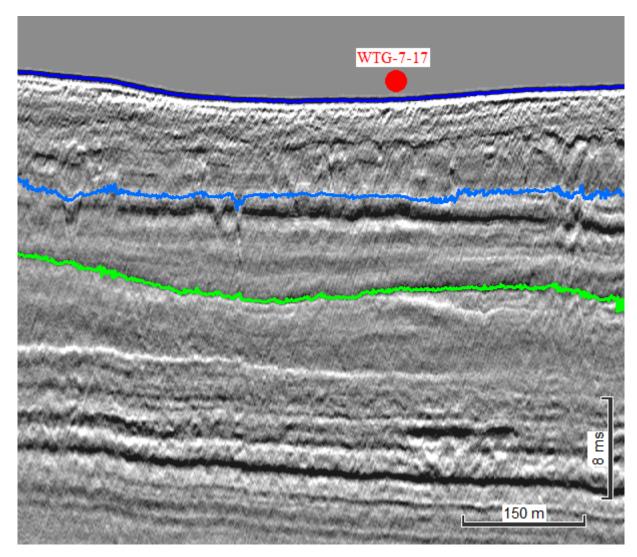
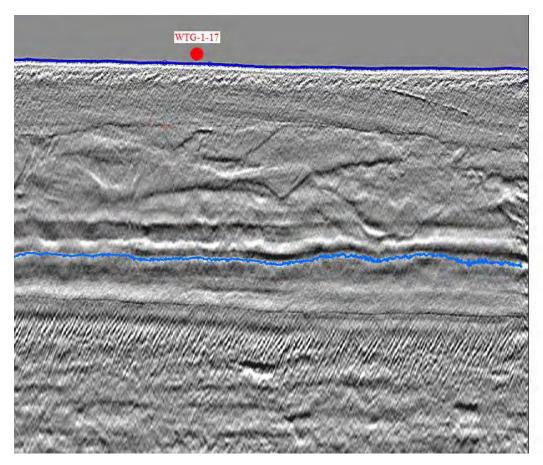


Figure 9-7: Proposed geotechnical location WTG-7-17 in Corridor 20 along line TLB68_01_FAST_MIG_PSDEMUL1

APPENDIX 10 SUB-BOTTOM PROFILE IMAGES FOR CORRIDOR 26



s∈ ∞ 150 m

Figure 10-1: Proposed geotechnical location WTG-1-17 in Corridor 26 along line WTG26MCS16A_FAST_MIG

Dominion Energy, Inc. 707 East Main Street Richmond, VA 23219 dominionenergy.com



December 11, 2020

Mr. James Bennett, Chief Bureau of Ocean Energy Management Office of Renewable Energy Programs 45600 Woodland Road, VAM-OREP Sterling, VA 20166

Dear Mr. Bennett:

RE: Coastal Virginia Offshore Wind Commercial Project - Cultural Resources Clearance for Geotechnical Investigations for Corridors 2, 8, 10, 14, 16, 18, and 22

Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy, the Applicant), is submitting the attached geotechnical clearance reports for Corridors 2, 8, 10, 14, 16, 18, and 22 within the Commercial Lease of Submerged Lands for Renewable Energy Development on the Outer Continental Shelf (OCS) Offshore Virginia (Lease No. OCS-A-0483) Condition 4.2.2 in support of the Coastal Virginia Offshore Wind Commercial (CVOW) Commercial Project.

This letter and attached report provide the results of Phase I cultural resources analyses of high-resolution geophysical (HRG) survey data collected by TerraSond to support geotechnical investigations.

In summary:

- No sonar contacts that represent significant cultural resources were identified within the analytical areas.
- One magnetic anomaly, with the potential to represent significant cultural resources, was identified within Corridor 2 within the analytical area associated with Wind Turbine Generator (WTG) location WTG-11-2. Based on the characteristics of the of the anomaly, the analytical area was extended and a 50-meter avoidance buffer was centered around the anomaly.
- No magnetic anomalies that represent significant cultural resources were identified within any of the other the analytical areas.
- Analyses of the seismic data suggest that the geotechnical samples will not impact any submerged and buried landforms that exhibit the potential to contain preserved archaeological resources.
- No historic properties, such as shipwrecks, were detected at the proposed sampling locations.

Please contact Scott Lawton at scott.lawton@dominionenergy.com or (804) 273-2600 if you have any questions or require additional information.

Sincerely,

Joshua J. Bennett

Vice President - Offshore Wind

Enclosure(s)

Cc: <u>Dominion Env.</u> - Jason Ericson, Darrell Shier, Scott Lawton, Mitchell Jabs

<u>Dominion Offshore Wind</u> – GT Hollett, Will Kinnan

BOEM - Casey Reeves, Algene Byrum, Jen Draher, Willie Hoffman

<u>Tetra Tech</u> - Janelle Lavallee, Alex Gibson <u>McNeilan and Assoc.</u> - Tom McNeilan

R. CHRISTOPHER GOODWIN & ASSOCIATES, INC.

cultural resource management and preservation planning

December 4, 2020

Mr. Lloyd Eley Project Manager Dominion Energy 5000 Dominion Boulevard Glen Allen, MD 23060

RE: Coastal Virginia Offshore Wind Commercial Project – Cultural Resources Clearance for Geotechnical Investigations, Corridor 02

Dear Mr. Eley:

This letter report provides the results of Phase I cultural resources analyses of high-resolution geophysical (HRG) survey data collected by TerraSond to support geotechnical investigations for the Coastal Virginia Offshore Wind Commercial Project. The planned 2020 geotechnical campaign consists of deep borings and seabed Cone Penetrometer Tests; this memorandum reviews four (4) of these locations for gathering geologic information (Table 1). The geotechnical investigation will be conducted by Geoquip Marine aboard the vessels, *Geoquip Saentis*, *Dina Polaris*, and *Geoquip Speer*, or a similar type of vessel that is equipped with a dynamic positioning system. Activities at the geotechnical locations will not exceed a maximum depth of 100 meters (m) below seabed.

The QMA reviewed the HRG survey data within a rectangular analytical area (100 m by 200 m) centered on each of the three (3) proposed geotechnical locations co-located at each proposed Wind Turbine Generator (WTG). The reviewed data included at minimum three (3) parallel lines of survey data that captured each of the proposed locations. This review focused on identification of any potential submerged cultural resources and buried, preserved landforms through geophysical investigations.

High-resolution side scan sonar imagery was recorded throughout the survey area and viewed as high-resolution (0.25 m [x, y] cell size), georeferenced mosaicked files (Appendix 1). No anthropogenic seafloor disturbances were noted within the analytical areas. No sonar contacts that could represent potential cultural resources were identified within the analytical areas.

Two marine magnetometers configured into a transverse gradiometer array collected magnetic data along each survey line. Magnetic anomalies were interpreted using magnetic residual field grid data, magnetometer altitude grid data, and by observing their characteristics in terms of amplitude, duration, magnetic signature, and spatial distribution (Appendix 1). The residual grid contours revealed one high-amplitude (845.9 nT), dipolar anomaly, with a 28.3-m duration, identified within the analytical area of WTG-11-2. Based on the anomaly's characteristics, the analytical area was extended to 100m by 300m and a 50-m avoidance buffer was centered around the anomaly. Because WTG-11-2 is located within the avoidance buffer it will need to be relocated within the extended analytical area (Appendix 1). No other

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New Orleans, LA Lawrence, KS Frederick, MD Chester, CT Las Cruces, NM

magnetic anomalies that could represent potential cultural resources were identified within the analytical areas.

Seismic data were collected and interpreted along each survey line associated with the geotechnical locations (Appendix 2). All seismic data were reviewed to their full vertical extent. The geotechnical locations were also reviewed with respect to the subsurface ground model and interpreted horizons. Analyses of the seismic data suggest that the geotechnical samples will not impact any submerged and buried landforms that exhibit the potential to contain preserved archaeological resources.

The analyses considered all portions of the seafloor within the limits of bottom-disturbing activities as they pertain to the proposed sampling locations (Table 1; Appendices 1 and 2). Based on the current data, if the geotechnical sampling activities are contained within the established analytical areas (Table 1), and adhere to the avoidance buffer on WTG-11-2, no potential archaeological resources will be affected by the proposed geotechnical activities. No historic properties, such as shipwrecks, were detected at the proposed sampling locations.

If you have questions, please do not hesitate to contact us.

Best regards,

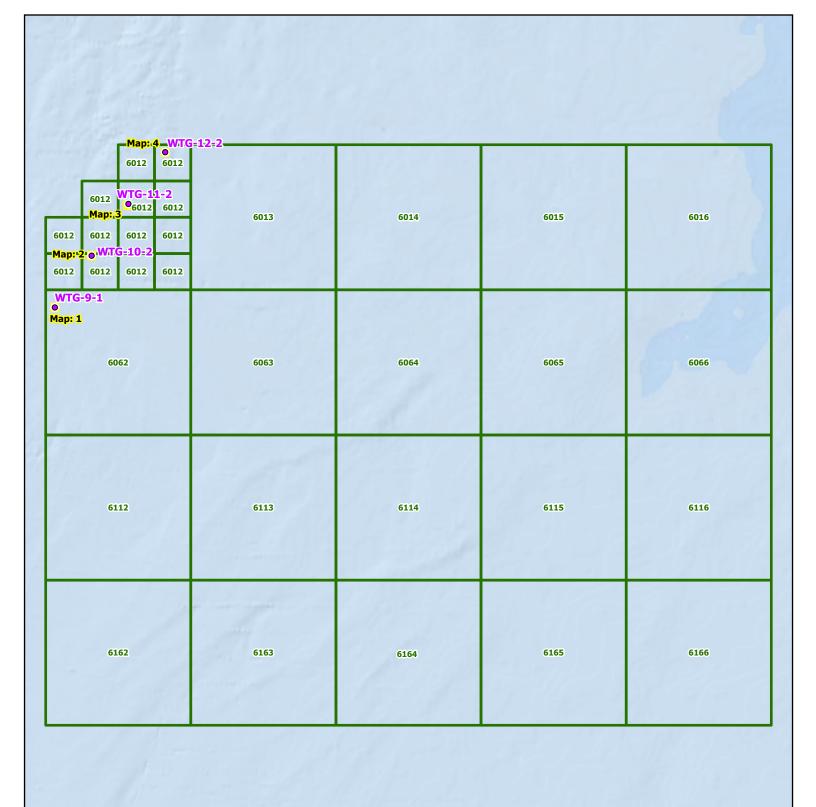
Ashley Himmelstein, M.A. Nautical Archaeologist

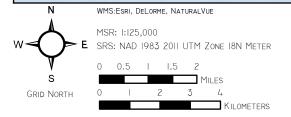
Table 1. Proposed WTG geotechnical locations for Corridor 02

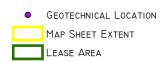
Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-9-1	457104.14	4089018.17	-75.48176678	36.9462578
WTG-10-2	458320.14	4090730.17	-75.46820471	36.96174473
WTG-11-2	459537.14	4092442.17	-75.45462593	36.97723014
WTG-12-2	460753.14	4094153.17	-75.44105284	36.99270495

¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters. ² Geographical coordinates are referenced to NAD83.

APPENDIX 1 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 02





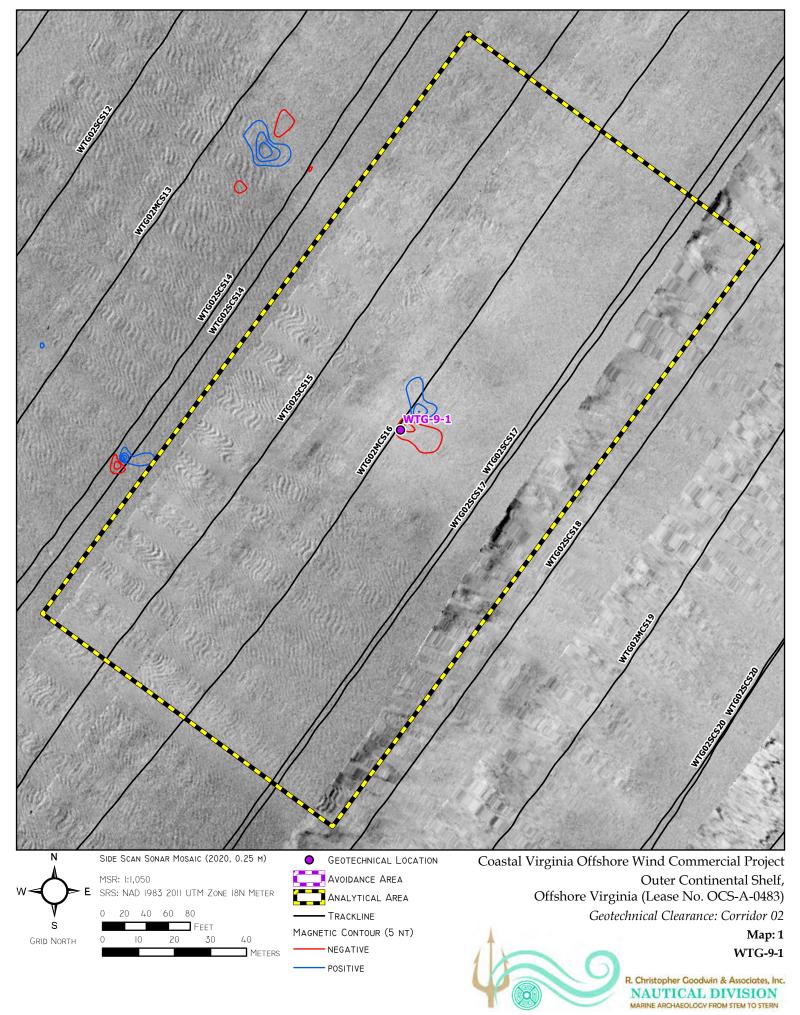


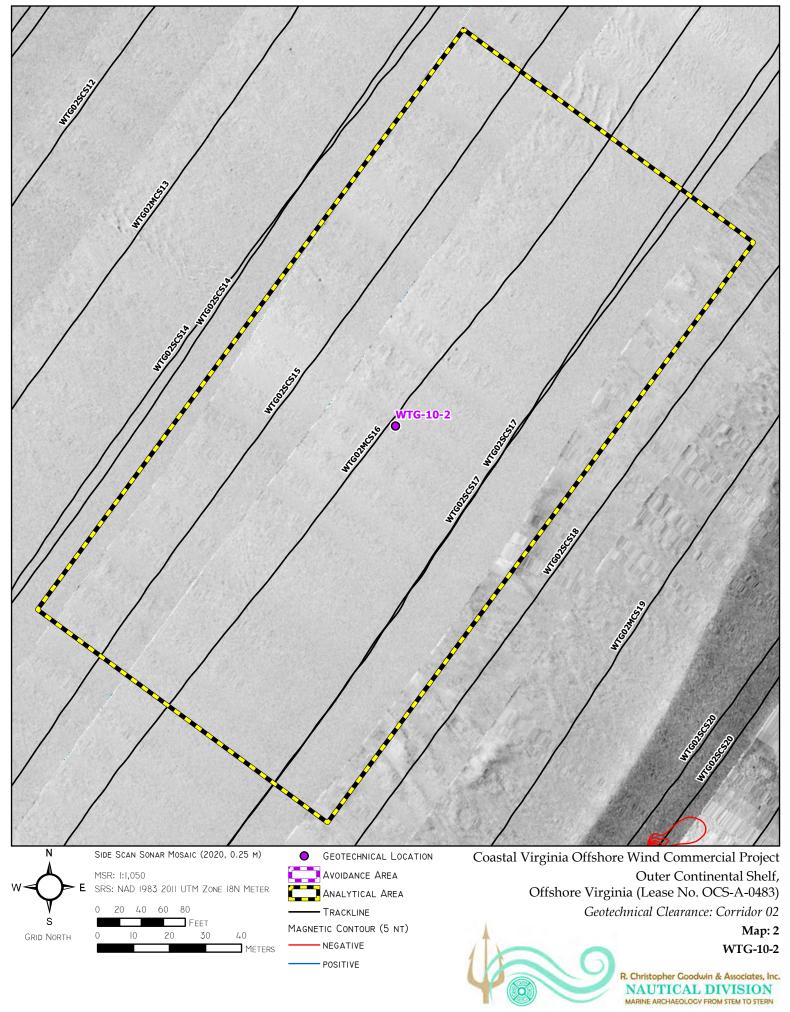
Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

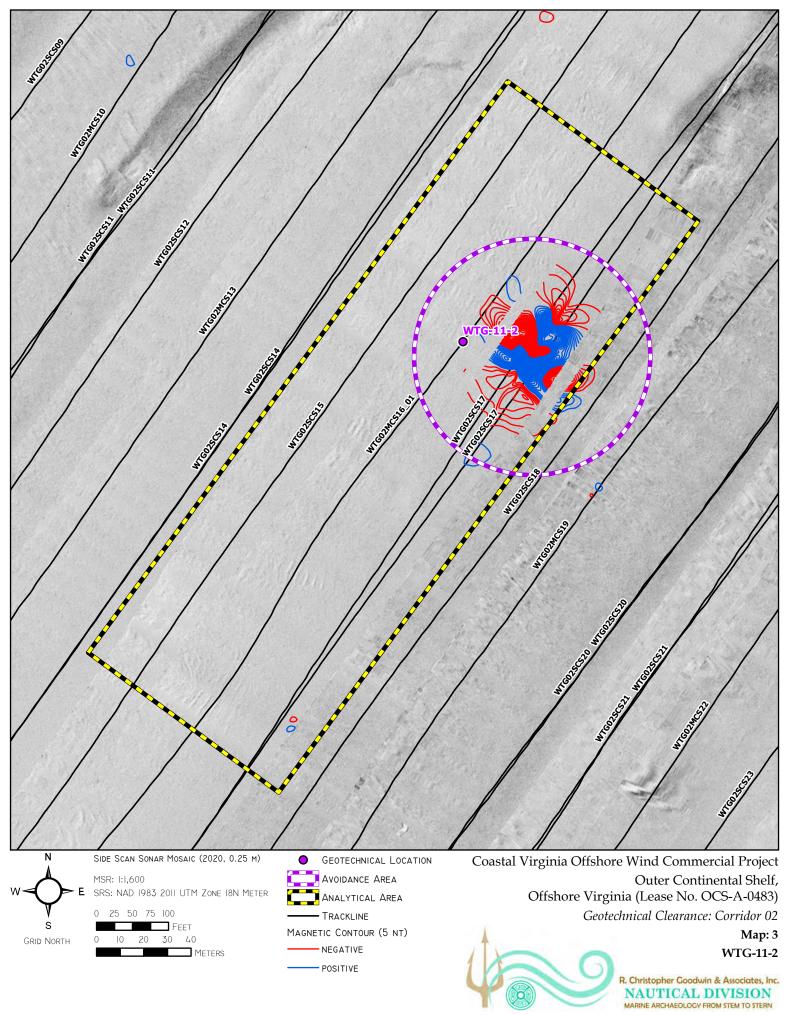
Geotechnical Clearance: Corridor 02

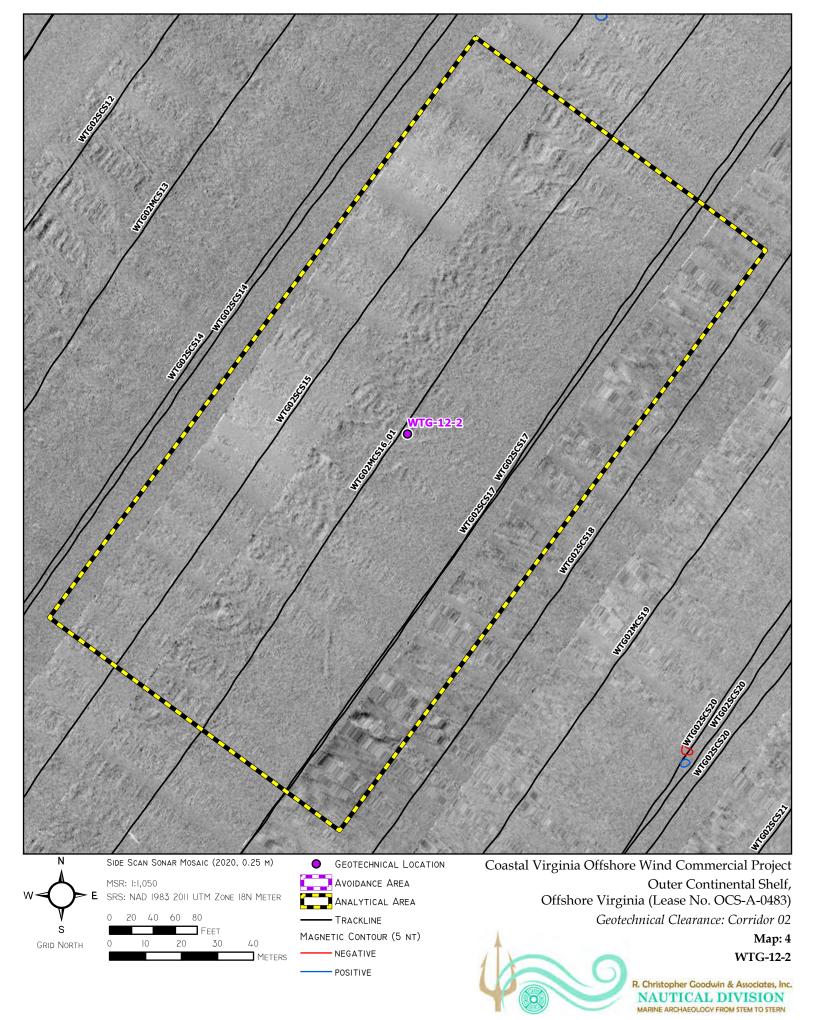


Index Map









APPENDIX 2 SUB-BOTTOM PROFILE IMAGES

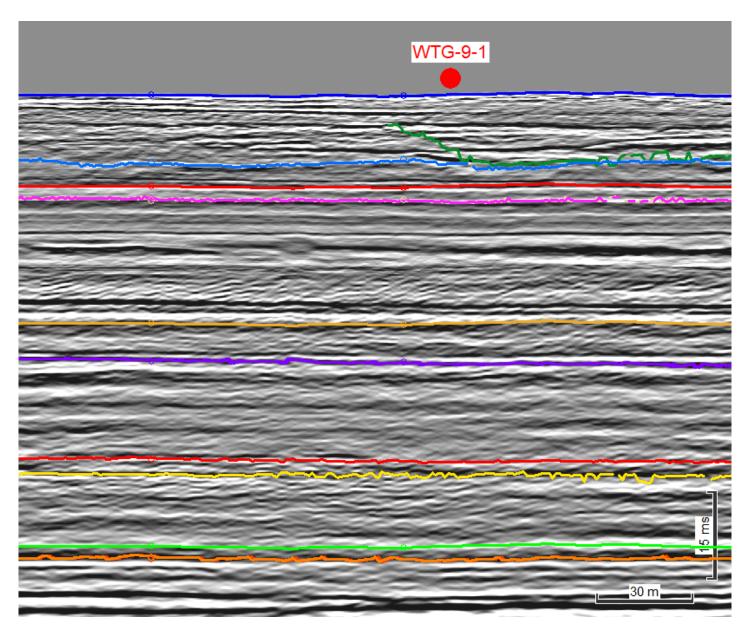


Figure 1: Proposed geotechnical location WTG-9-1 in Corridor 2 along line WTG02MCS16_FAST_MIG

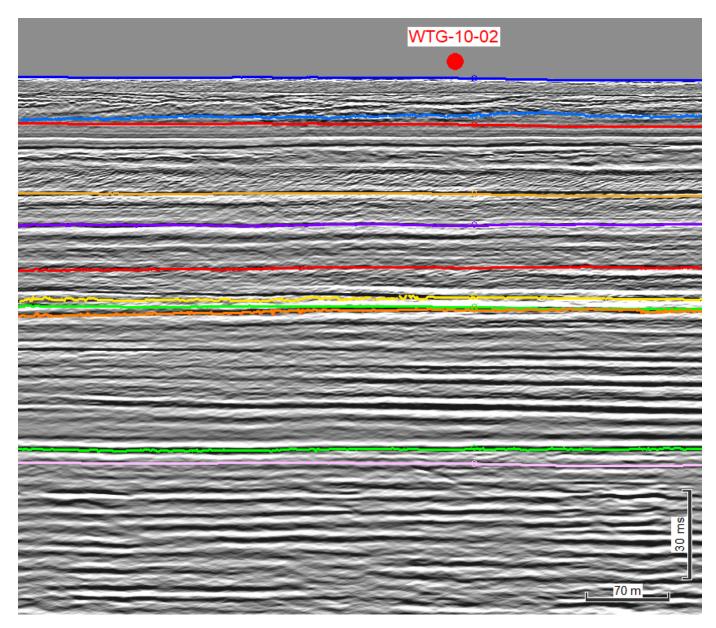


Figure 2: Proposed geotechnical location WTG-10-02 in Corridor 2 along line WTG02MCS16_FAST_MIG

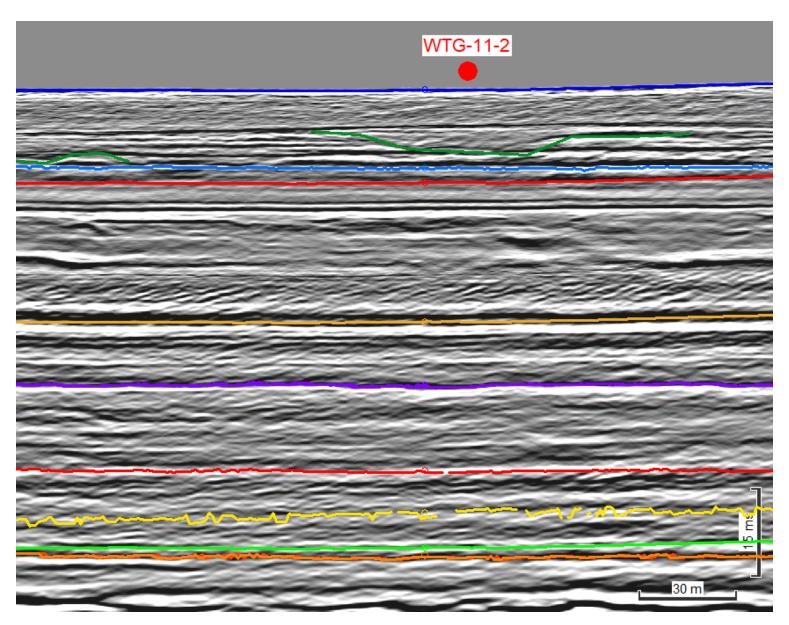
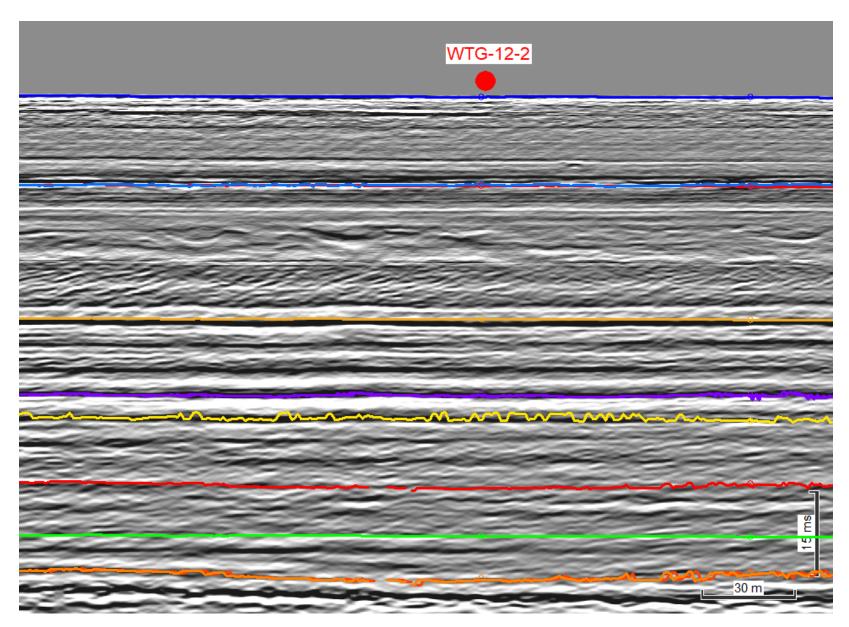


Figure 3: Proposed geotechnical location WTG-11-2 in Corridor 2 along line WTG02MCS16_01_FAST_MIG



 $Figure\ 4:\ Proposed\ geotechnical\ location\ WTG-12-2\ in\ Corridor\ 2\ along\ line\ WTG02MCS16_01_FAST_MIG$

R. CHRISTOPHER GOODWIN & ASSOCIATES, INC.

cultural resource management and preservation planning

November 27, 2020

Mr. Lloyd Eley Project Manager Dominion Energy 5000 Dominion Boulevard Glen Allen, MD 23060

RE: Coastal Virginia Offshore Wind Commercial Project – Cultural Resources Clearance for Geotechnical Investigations, Corridor 8, Corridor 10, Corridor 14, Corridor 16, Corridor 18 and Corridor 22

Dear Mr. Eley:

This letter report provides the results of Phase I cultural resources analyses of high-resolution geophysical (HRG) survey data collected by TerraSond to support geotechnical investigations for the Coastal Virginia Offshore Wind Commercial Project. The planned 2020 geotechnical campaign consists of deep borings and seabed Cone Penetrometer Tests; this memorandum reviews 60 of these locations for gathering geologic information (Tables 1, 2, 3, 4, 5, and 6). The geotechnical investigation will be conducted by Geoquip Marine aboard the vessels, *Geoquip Saentis*, *Dina Polaris*, and *Geoquip Speer*, or a similar type of vessel that is equipped with a dynamic positioning system. Activities at the geotechnical locations will not exceed a maximum depth of 100 meters (m) below seabed.

The QMA reviewed the HRG survey data within a rectangular analytical area (100 m by 200 m) centered on each of the 60 proposed geotechnical locations co-located at each proposed Wind Turbine Generator (WTG). The reviewed data included at minimum three (3) parallel lines of survey data that captured each of the proposed locations. This review focused on identification of any potential submerged cultural resources and buried, preserved landforms through geophysical investigations.

High-resolution side scan sonar imagery was recorded throughout the survey area and viewed as high-resolution (0.25 m [x, y] cell size), georeferenced mosaicked files (Appendices 1, 2, 3, 4, 5 and 6). No anthropogenic seafloor disturbances were noted within the analytical areas. No sonar contacts that could represent potential cultural resources were identified within the analytical areas.

Two marine magnetometers configured into a transverse gradiometer array collected magnetic data along each survey line. Magnetic anomalies were interpreted using magnetic residual field grid data, magnetometer altitude grid data, and by observing their characteristics in terms of amplitude, duration, magnetic signature, and spatial distribution (Appendices 1, 2, 3, 4, 5 and 6). Magnetic contours (5-nanotesla increments) were observed within some analytical areas, but were determined not to be cultural resources due to low amplitudes, low durations and no corresponding side scan sonar contacts. No magnetic anomalies that could represent potential cultural resources were identified within the analytical areas.

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Seismic data were collected and interpreted along each survey line associated with the geotechnical locations (Appendices 7, 8, 9, 10, 11 and 12). All seismic data were reviewed to their full vertical extent. The geotechnical locations were also reviewed with respect to the subsurface ground model and interpreted horizons. Analyses of the seismic data suggest that the geotechnical samples will not impact any submerged and buried landforms that exhibit the potential to contain preserved archaeological resources.

The analyses considered all portions of the seafloor within the limits of bottom-disturbing activities as they pertain to the proposed sampling locations (Tables 1, 2, 3, 4, 5 and 6; Appendices 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12). Based on the current data, if the geotechnical sampling activities are contained within the established analytical areas (Tables 1, 2, 3, 4, 5 and 6), no potential archaeological resources will be affected by the proposed geotechnical activities. No historic properties, such as shipwrecks, were detected at the proposed sampling locations.

If you have questions, please do not hesitate to contact us.

Best regards,

Ashley Himmelstein, M.A. Nautical Archaeologist

Table 1. Proposed WTG geotechnical locations for Corridor 8

Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-3-1	458121.14	4078748.17	-75.46977734	36.85372694
WTG-4-2	459337.14	4080459.17	-75.45622895	36.86920362
WTG-5-3	460554.14	4082171.17	-75.44266393	36.88468782
WTG-6-4	461770.14	4083883.17	-75.42910468	36.90017042
WTG-7-5	462987.14	4085595.17	-75.41552874	36.9156515
WTG-8-6	464203.14	4087306.17	-75.4019585	36.93112198
WTG-9-7	465420.14	4089018.17	-75.38837161	36.94659995
WTG-10-8	466636.14	4090730.17	-75.37479047	36.96207632
WTG-12-4	469069.14	4094153.17	-75.34760045	36.99301539

¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters.

Table 2. Proposed WTG geotechnical locations for Corridor 10

Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-1-1	458460.14	4075324.17	-75.46578752	36.82287667
WTG-2-2	459676.14	4077036.17	-75.45224374	36.83836196
WTG-3-3	460893.14	4078748.17	-75.43868331	36.85384575
WTG-4-4	462109.14	4080459.17	-75.42512858	36.86931894
WTG-5-5	463326.14	4082171.17	-75.41155724	36.88479962
WTG-6-6	464542.14	4083883.17	-75.39799165	36.90027871
WTG-7-7	465759.14	4085595.17	-75.38440937	36.91575628
WTG-8-8	466975.14	4087306.17	-75.37083279	36.93122324
WTG-9-9	468192.14	4089018.17	-75.35723956	36.94669768
WTG-10-10	469408.14	4090730.17	-75.34365207	36.96217052
WTG-11-5	470625.14	4092442.17	-75.33004786	36.97764183
WTG-12-6	471841.14	4094153.17	-75.31644935	36.99310252

¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters.

R. CHRISTOPHER GOODWIN & ASSOCIATES, INC.

² Geographical coordinates are referenced to NAD83.

² Geographical coordinates are referenced to NAD83.

Table 3. Proposed WTG geotechnical locations for Corridor 14

Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-1-5	464004.14	4075324.17	-75.40362421	36.82310393
WTG-2-6	465220.14	4077036.17	-75.3900678	36.83858222
WTG-3-7	466437.14	4078748.17	-75.37649472	36.85405899
WTG-4-8	467653.14	4080459.17	-75.36292736	36.86952515
WTG-5-9	468870.14	4082171.17	-75.34934336	36.8849988
WTG-6-10	470086.14	4083883.17	-75.33576512	36.90047085
WTG-7-11	471303.14	4085595.17	-75.32217017	36.91594137
WTG-8-12	472519.14	4087306.17	-75.30858094	36.93140128
WTG-9-13	473736.14	4089018.17	-75.29497503	36.94686865
WTG-10-14	474952.14	4090730.17	-75.28137487	36.96233443
WTG-11-9	476169.14	4092442.17	-75.26775798	36.97779865
WTG-12-10	477385.14	4094153.17	-75.25414679	36.99325226

¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters.

Table 4: Proposed WTG geotechnical locations for Corridor 16

Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-1-7	466776.14	4075324.17	-75.37254231	36.82320537
WTG-2-8	467992.14	4077036.17	-75.35897959	36.83868015
WTG-3-9	469209.14	4078748.17	-75.3454002	36.85415341
WTG-4-10	470425.14	4080459.17	-75.33182653	36.86961605
WTG-5-11	471642.14	4082171.17	-75.31823621	36.88508618
WTG-6-12	472858.14	4083883.17	-75.30465164	36.90055471
WTG-7-13	474075.14	4085595.17	-75.29105038	36.91602169
WTG-8-14	475291.14	4087306.17	-75.27745482	36.93147806
WTG-9-15	476508.14	4089018.17	-75.26384259	36.9469419
WTG-10-16	477724.14	4090730.17	-75.25023609	36.96240413
Spare WTG-11-11	478941.14	4092442.17	-75.23661287	36.97786481
Spare WTG-12-12	480157.14	4094153.17	-75.22299535	36.99331486

¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters.

² Geographical coordinates are referenced to NAD83.

² Geographical coordinates are referenced to NAD83.

Table 5: Proposed WTG geotechnical locations for Corridor 18

Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-1-9	469548.14	4075324.17	-75.34146026	36.82329869
WTG-2-10	470764.14	4077036.17	-75.32789124	36.83876996
WTG-3-11	471981.14	4078748.17	-75.31430554	36.85423969
WTG-4-12	473197.14	4080459.17	-75.30072556	36.86969881
WTG-5-13	474414.14	4082171.17	-75.28712893	36.88516541
WTG-6-14	475630.14	4083883.17	-75.27353805	36.90063041
WTG-7-15	476847.14	4085595.17	-75.25993046	36.91609386
WTG-8-16	478063.14	4087306.17	-75.24632859	36.93154669
Spare WTG-9-17	479280.14	4089018.17	-75.23271003	36.94700698
Spare WTG-10-18	480496.14	4090730.17	-75.21909721	36.96246567

¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters.

Table 6: Proposed WTG geotechnical locations for Corridor 22

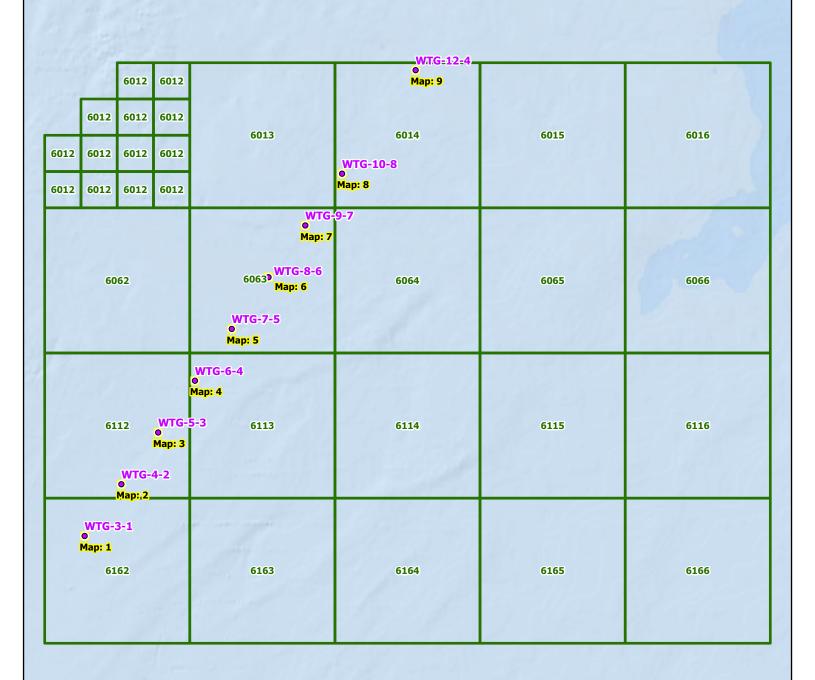
Core ID	Easting (X) ¹	Northing (Y) ¹	Longitude ²	Latitude ²
WTG-1-13	475092.14	4075324.17	-75.27929576	36.82346096
WTG-2-14	476308.14	4077036.17	-75.26571414	36.83892518
WTG-3-15	477525.14	4078748.17	-75.25211584	36.85438786
WTG-4-16	478741.14	4080459.17	-75.23852327	36.86983993
WTG-5-17	479958.14	4082171.17	-75.22491403	36.88529945

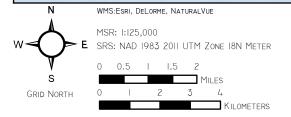
¹ Projected coordinates are referenced to UTM Zone 18N, NAD83 (2011), meters.

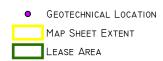
² Geographical coordinates are referenced to NAD83.

² Geographical coordinates are referenced to NAD83.

APPENDIX 1 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 8



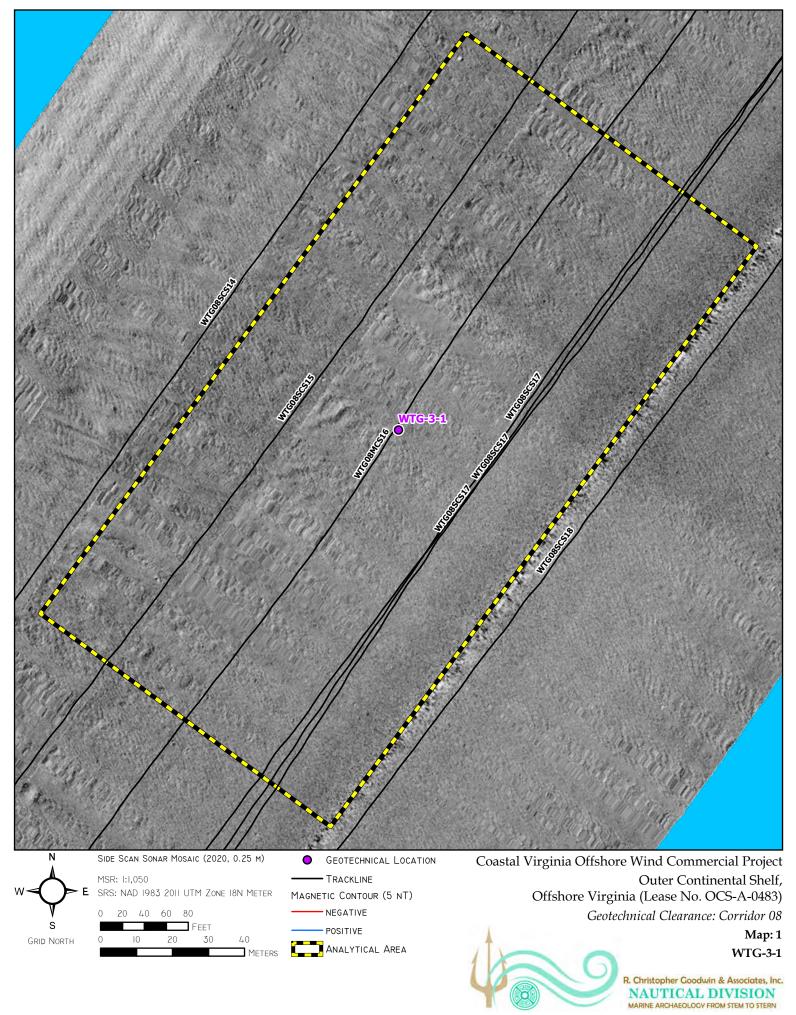


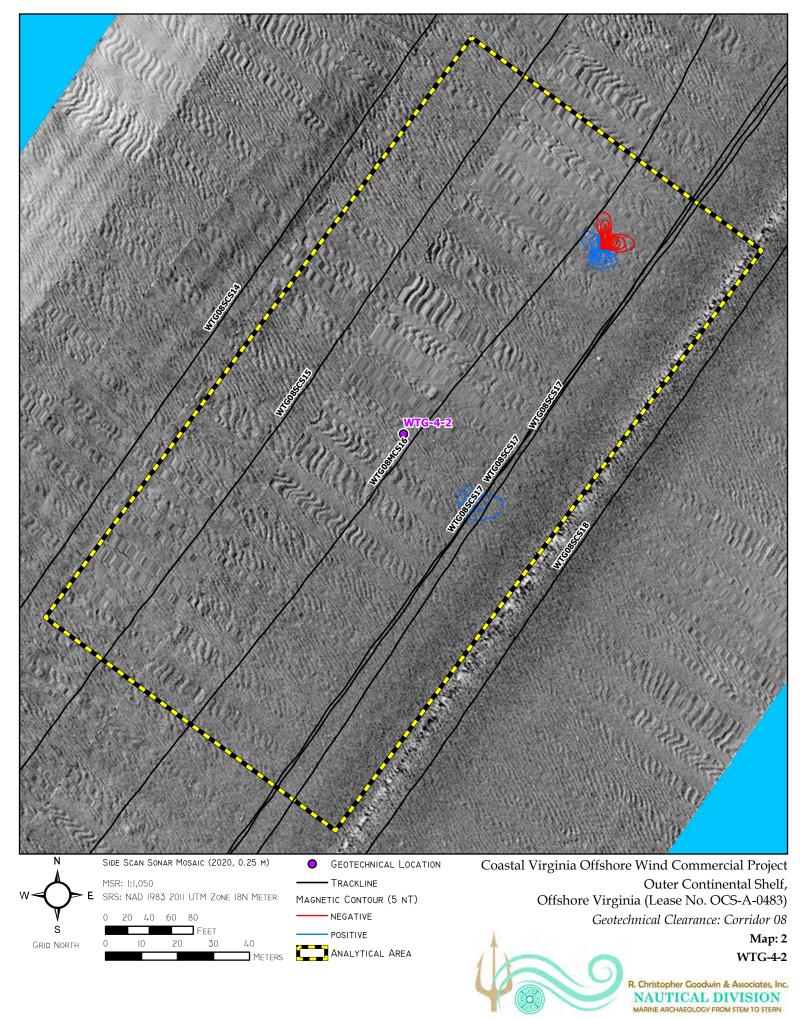


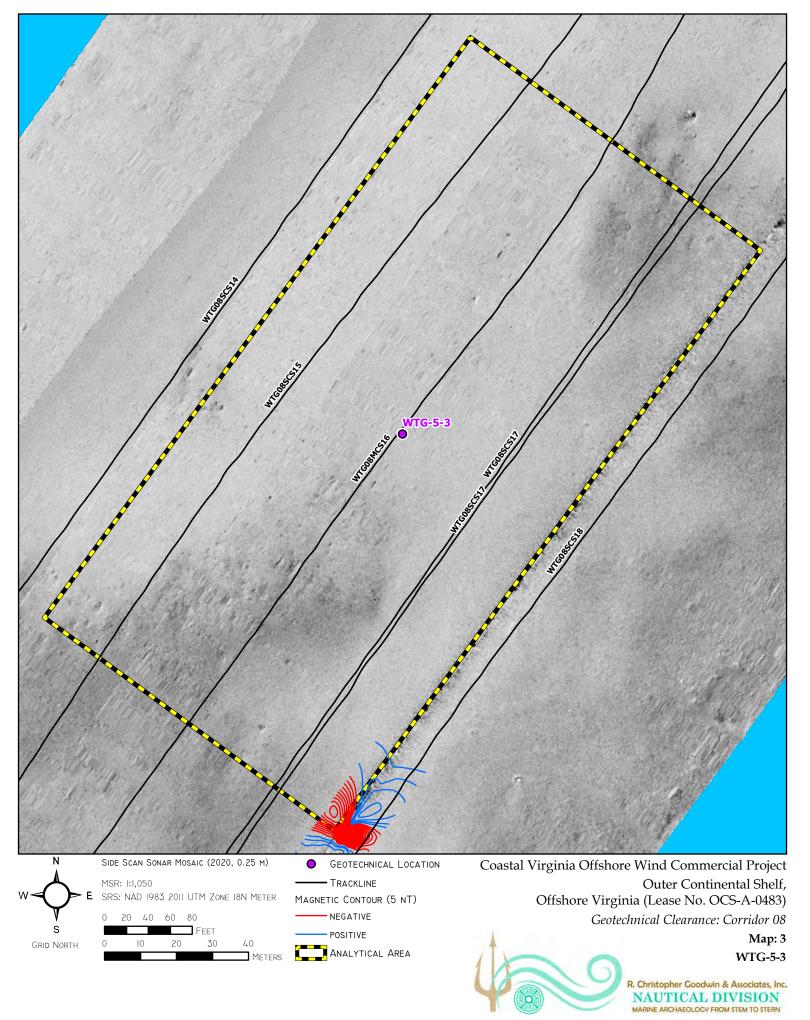
Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

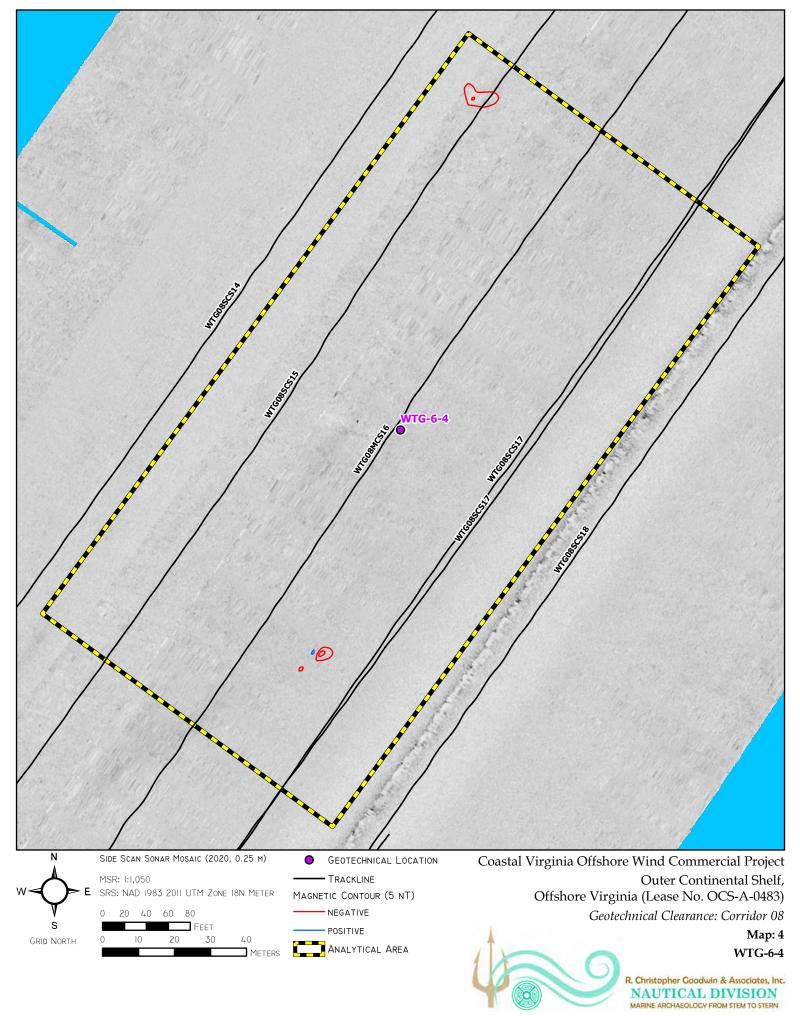
Geotechnical Clearance: Corridor 08

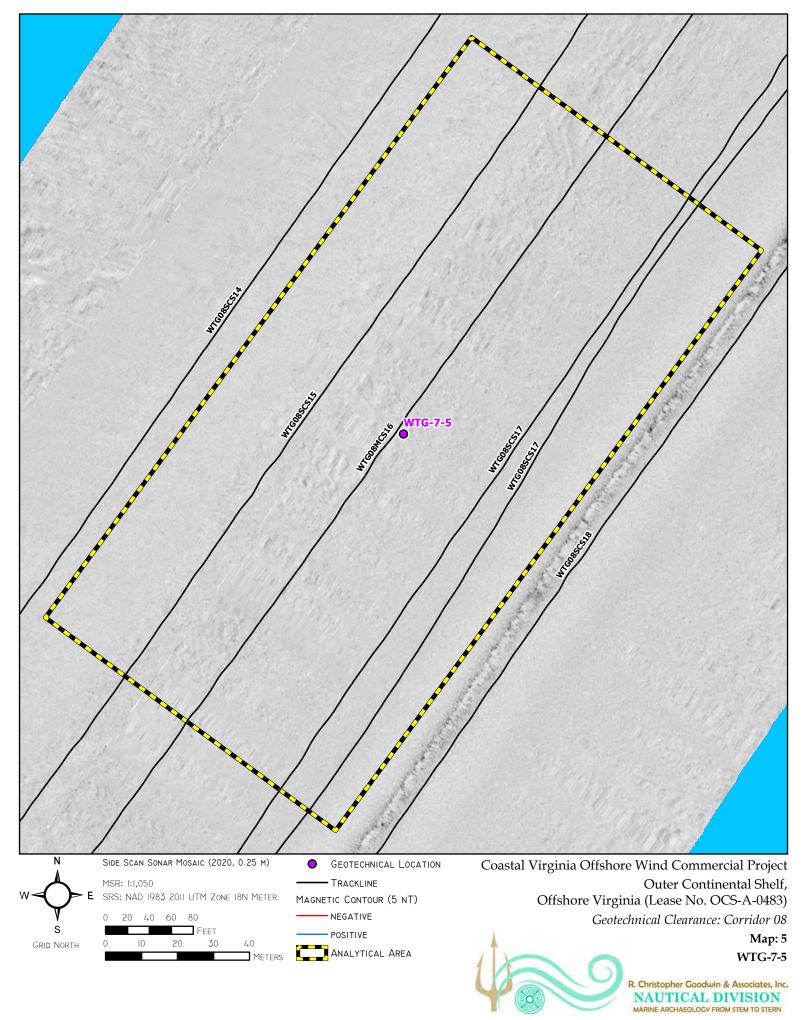
Index Map

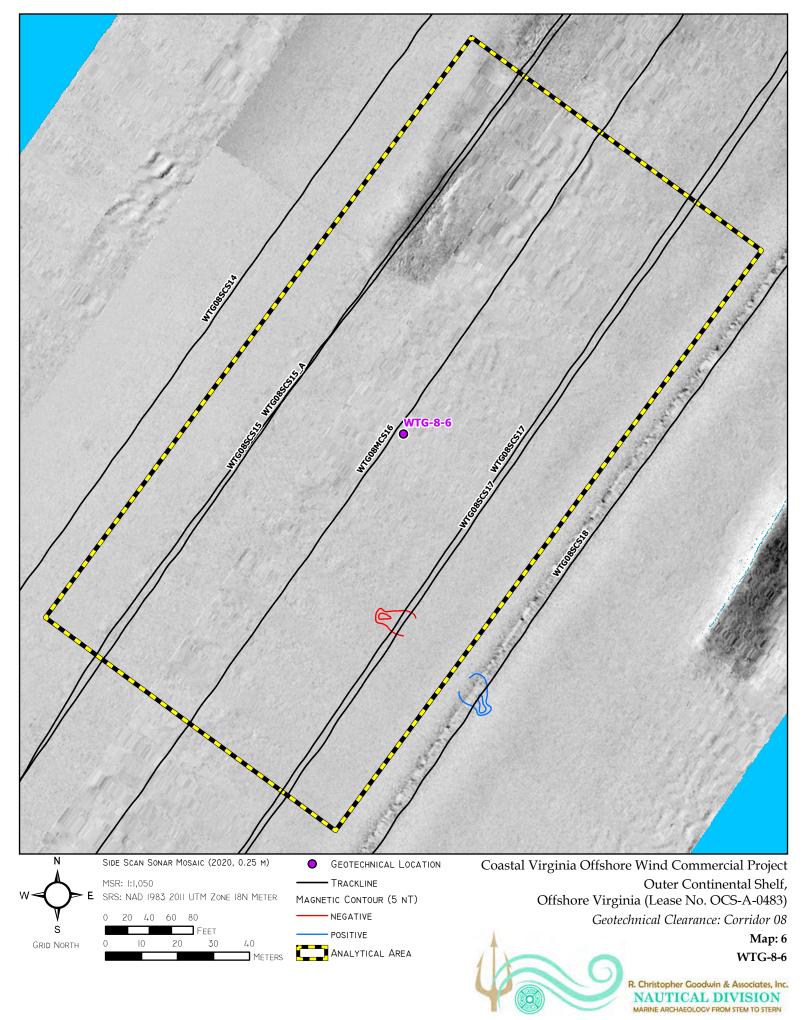


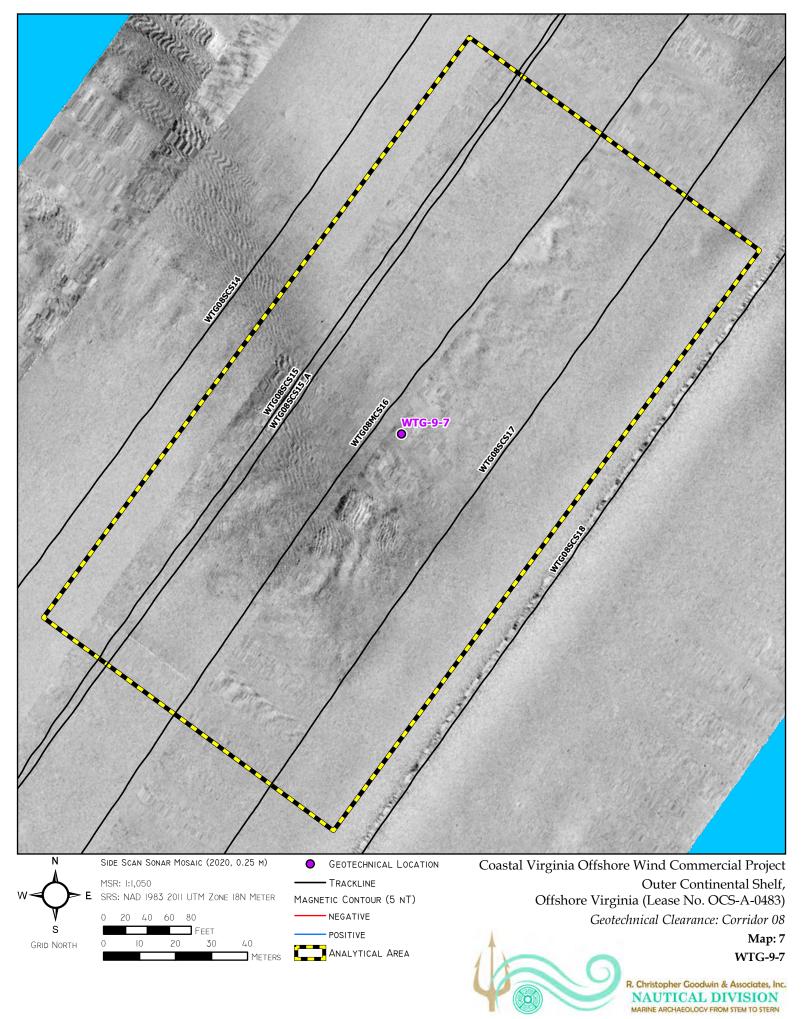


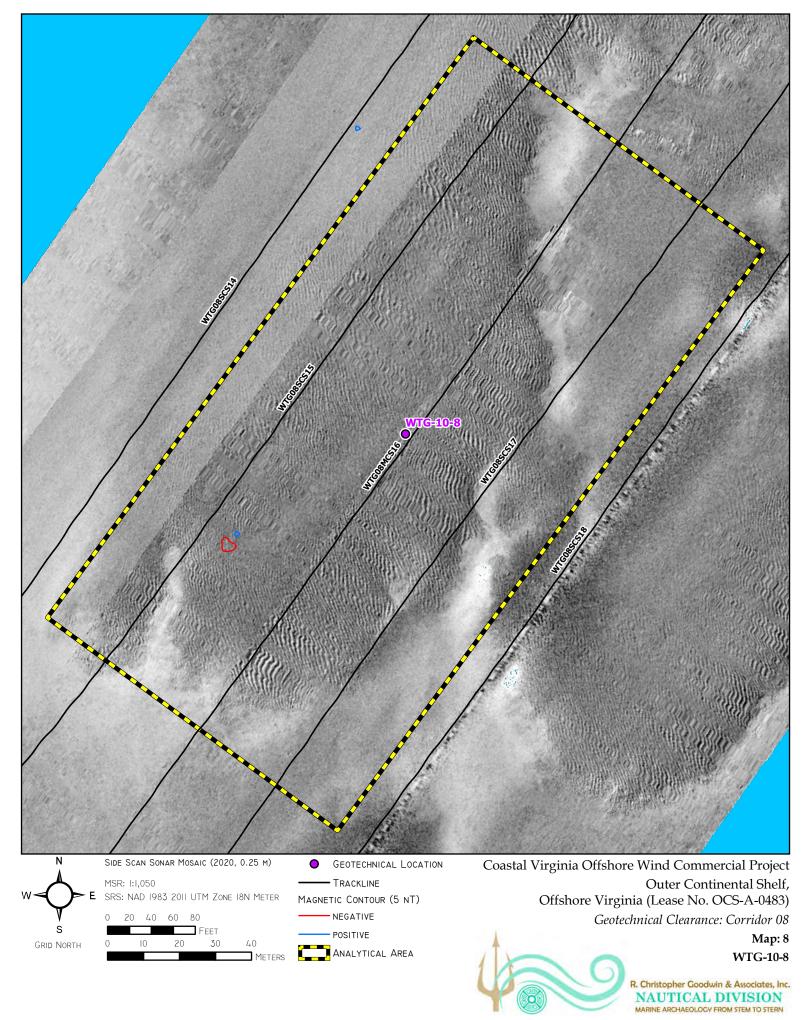


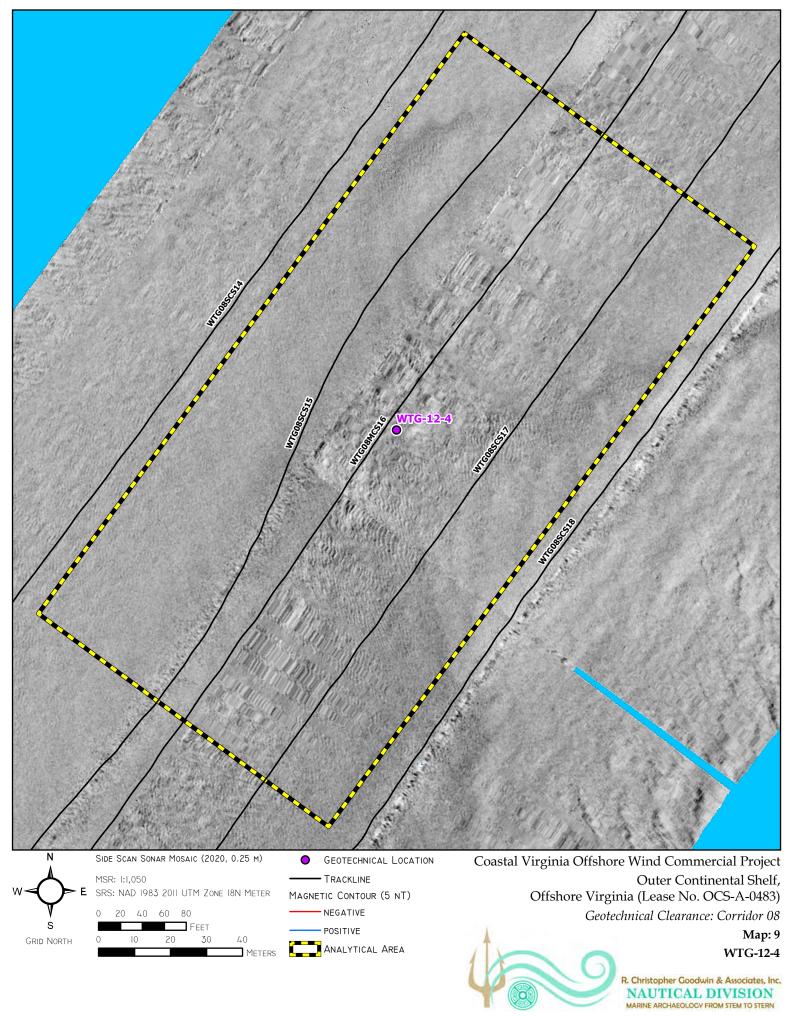




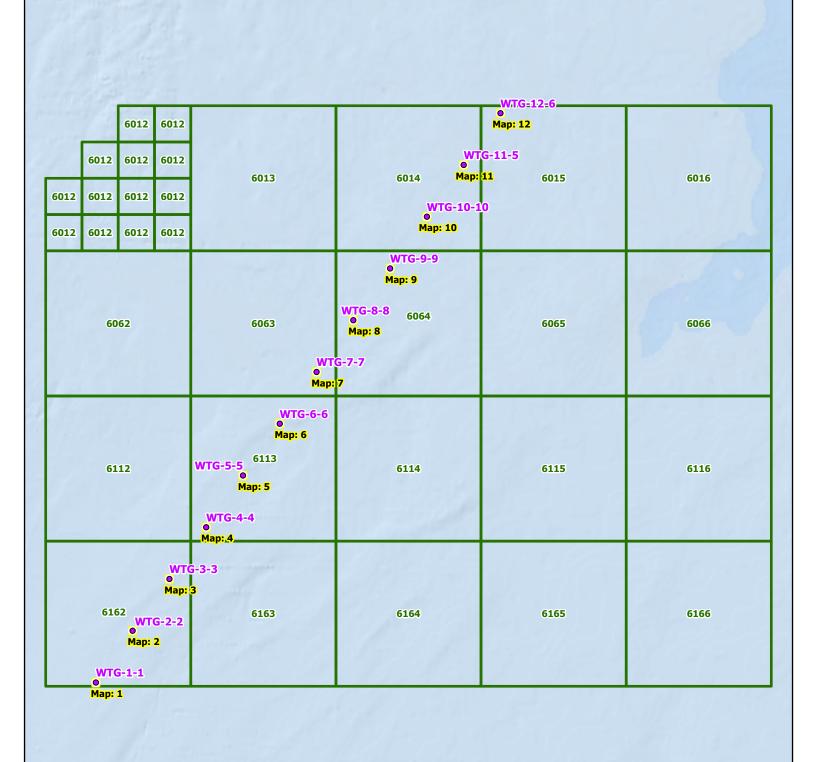


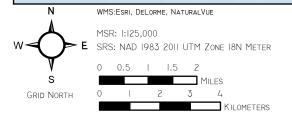






APPENDIX 2 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 10





GEOTECHNICAL LOCATION MAP SHEET EXTENT LEASE AREA

Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

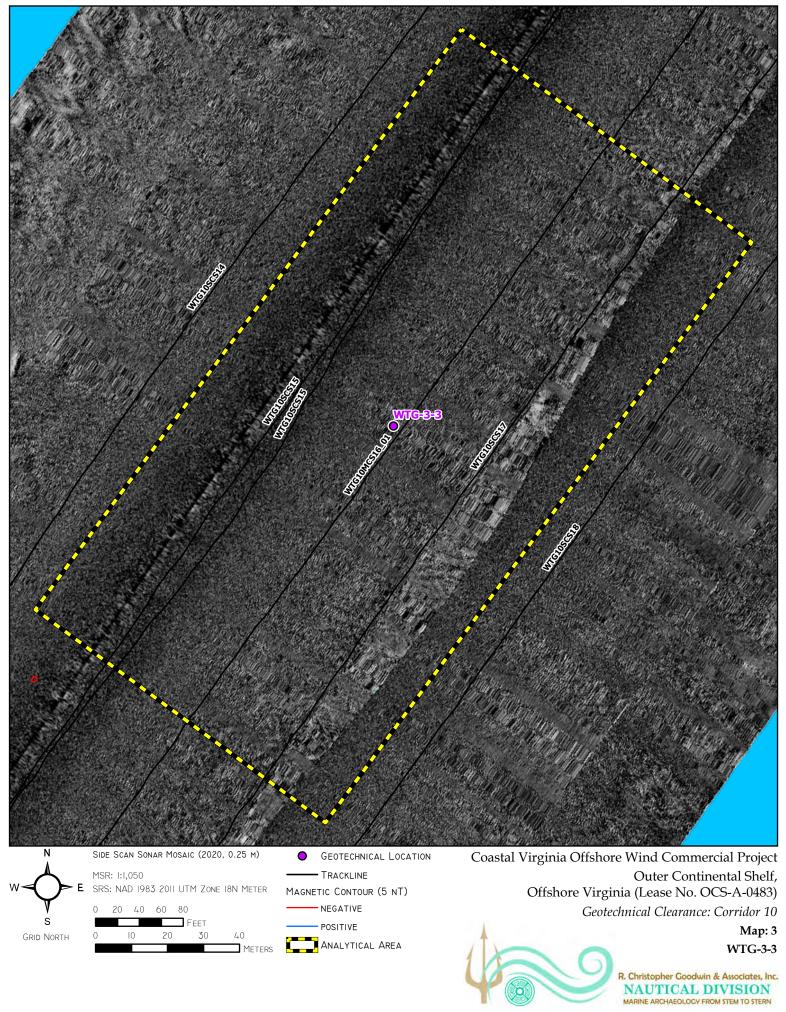
Geotechnical Clearance: Corridor 10

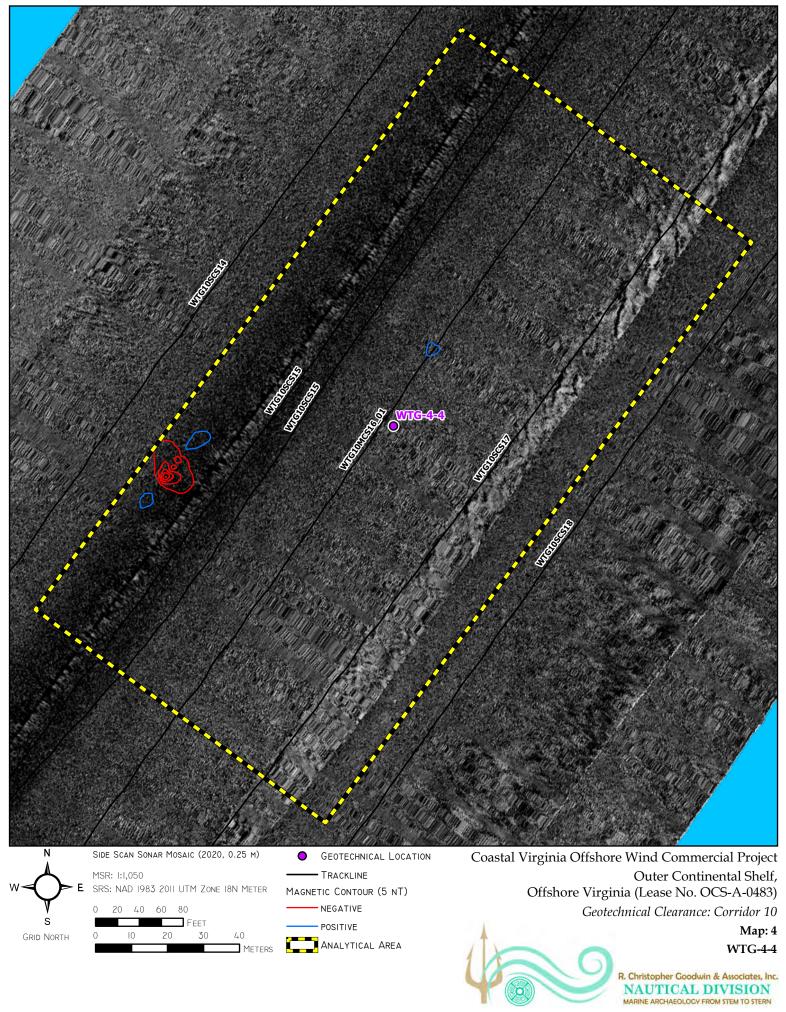


Index Map

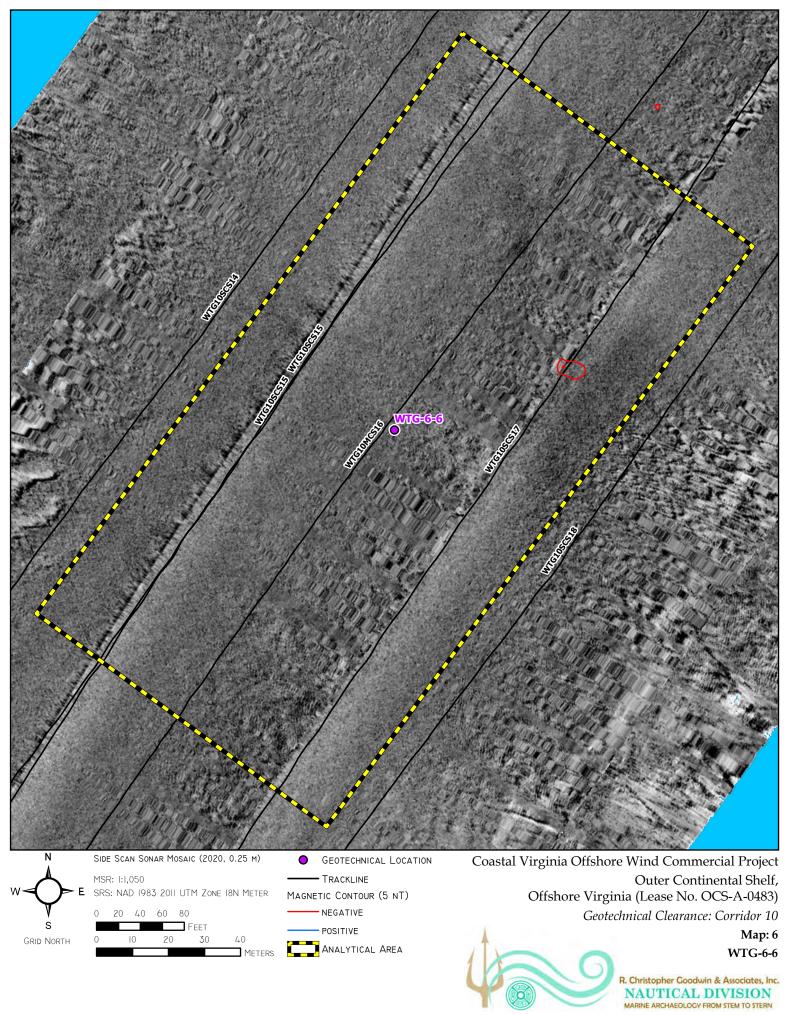


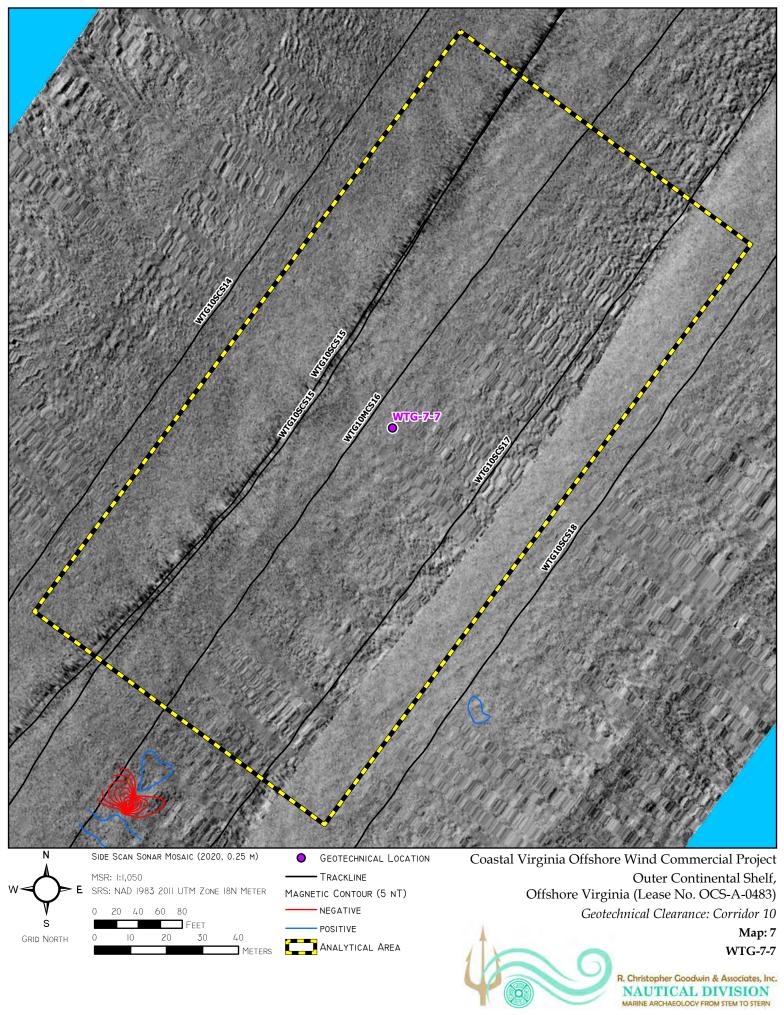


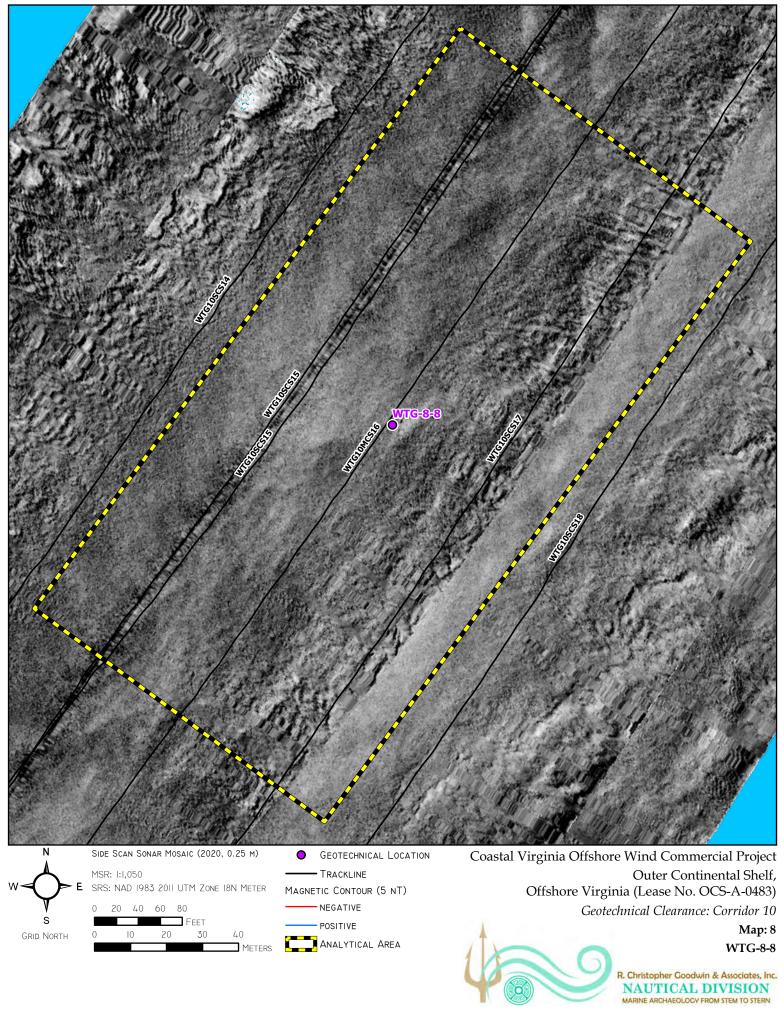


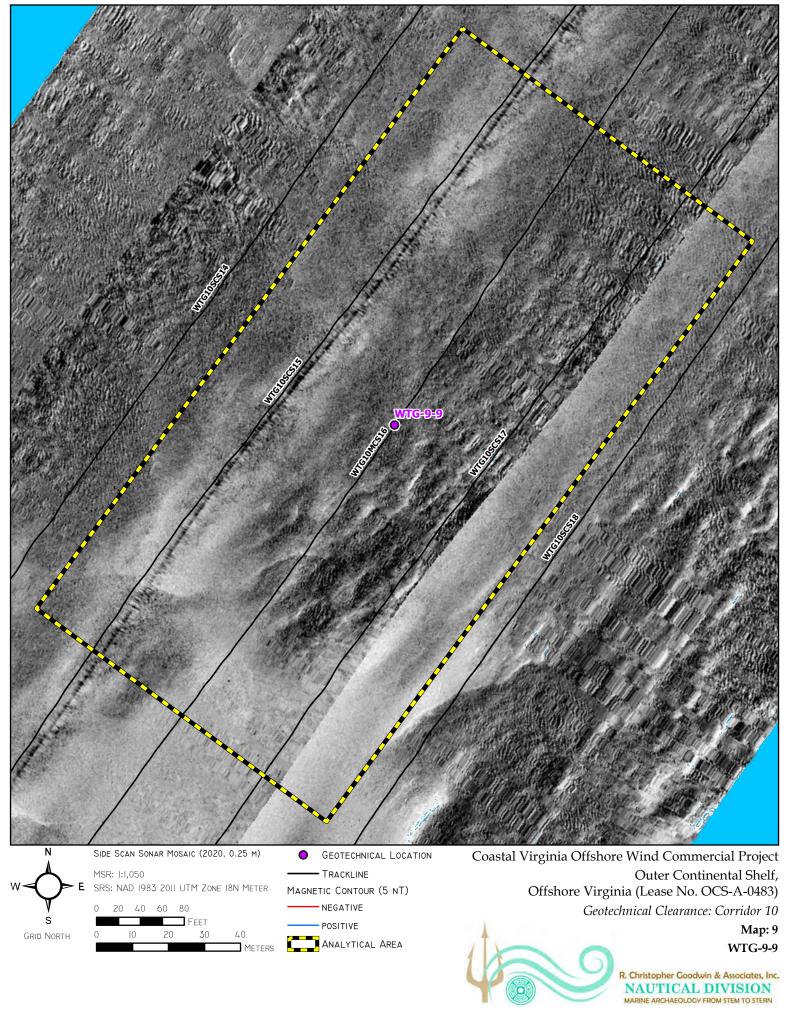


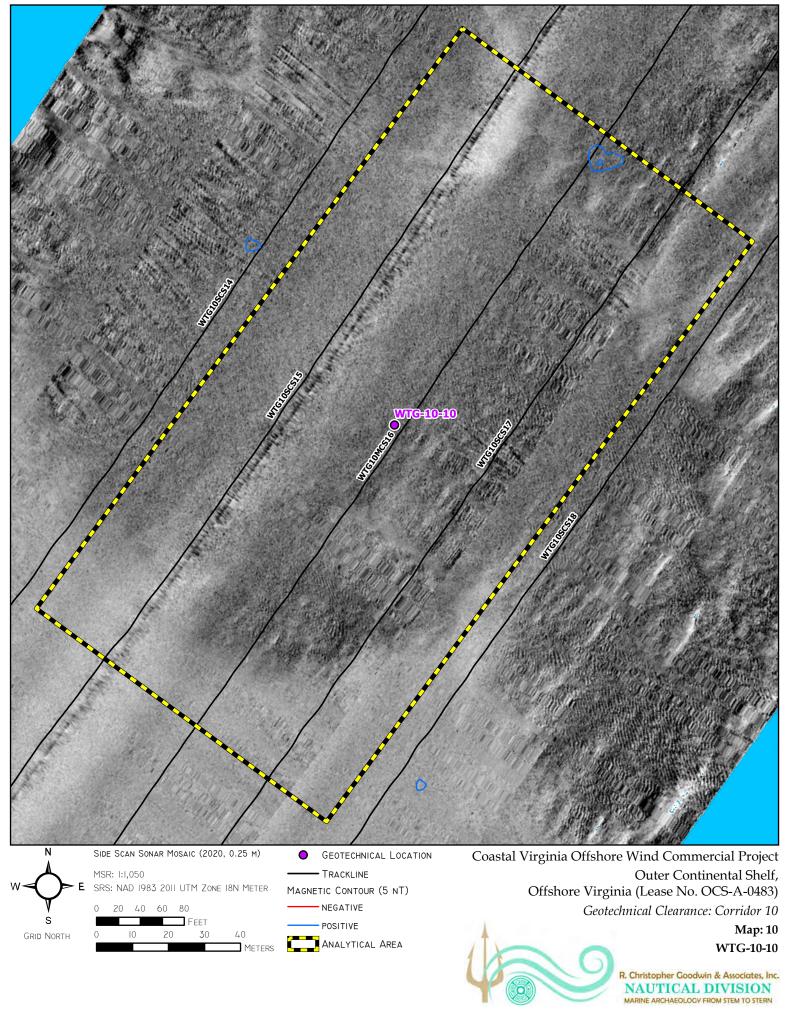




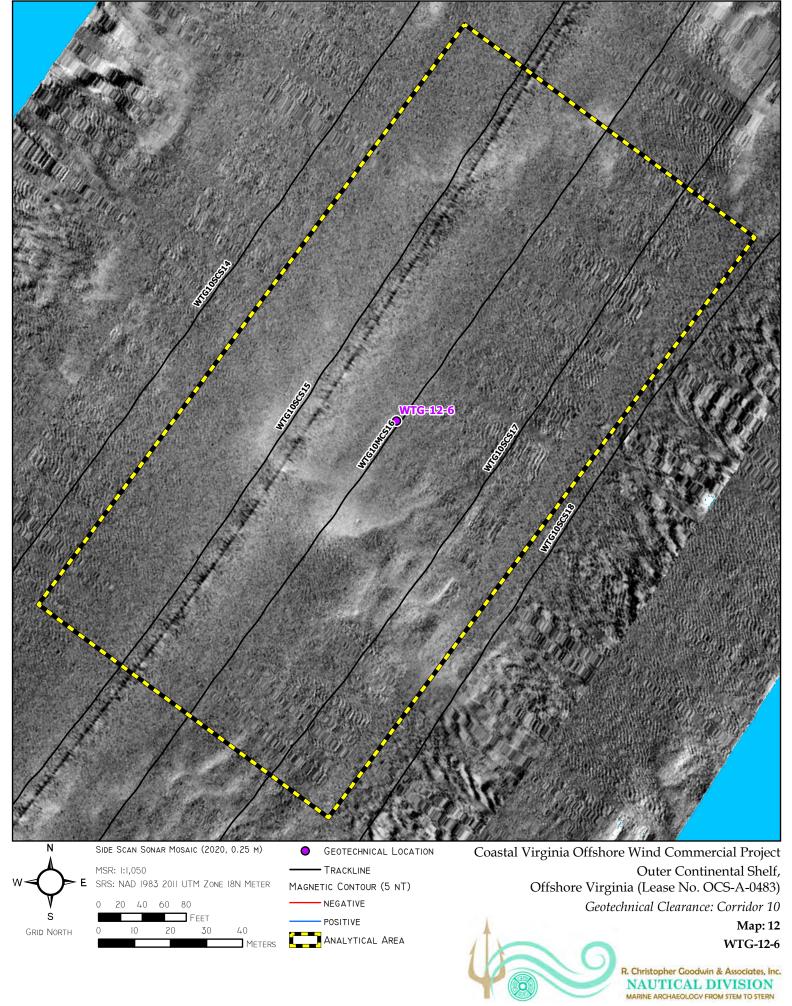




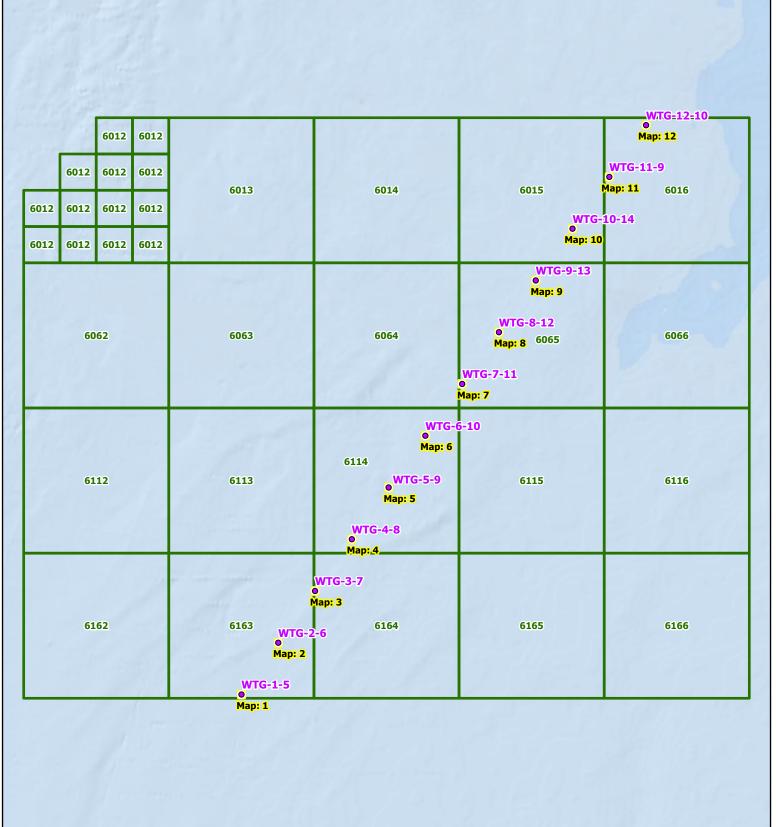


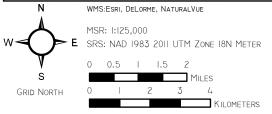






APPENDIX 3 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 14





GEOTECHNICAL LOCATION MAP SHEET EXTENT LEASE AREA

Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

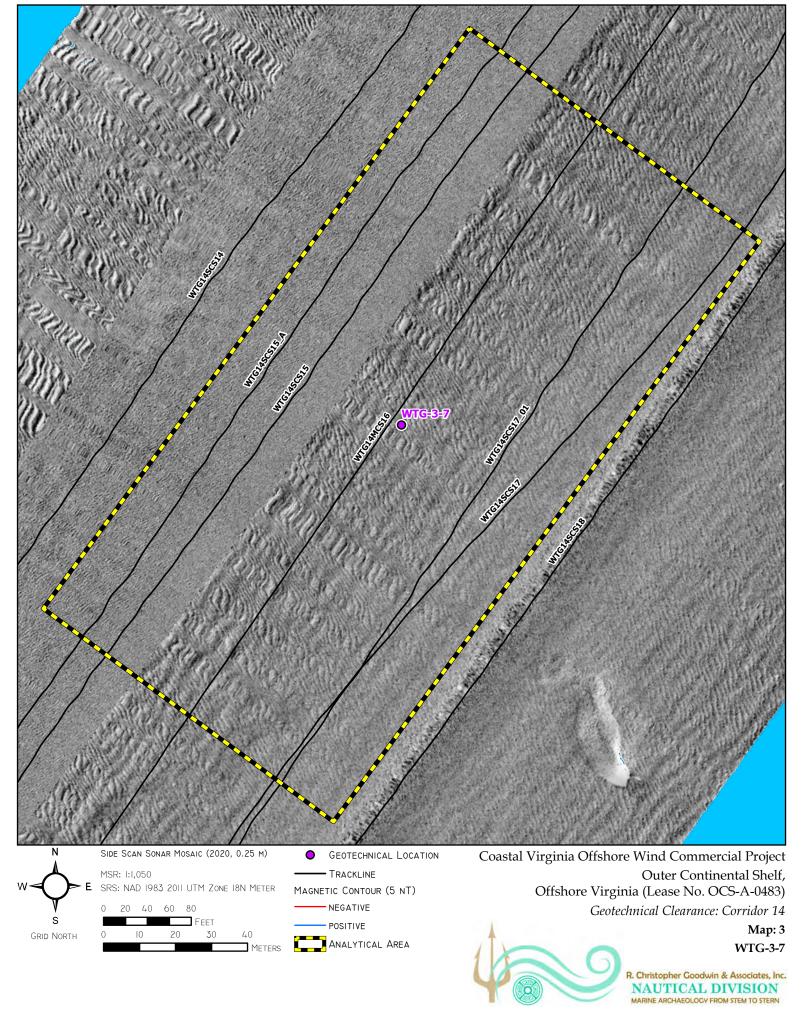
Geotechnical Clearance: Corridor 14

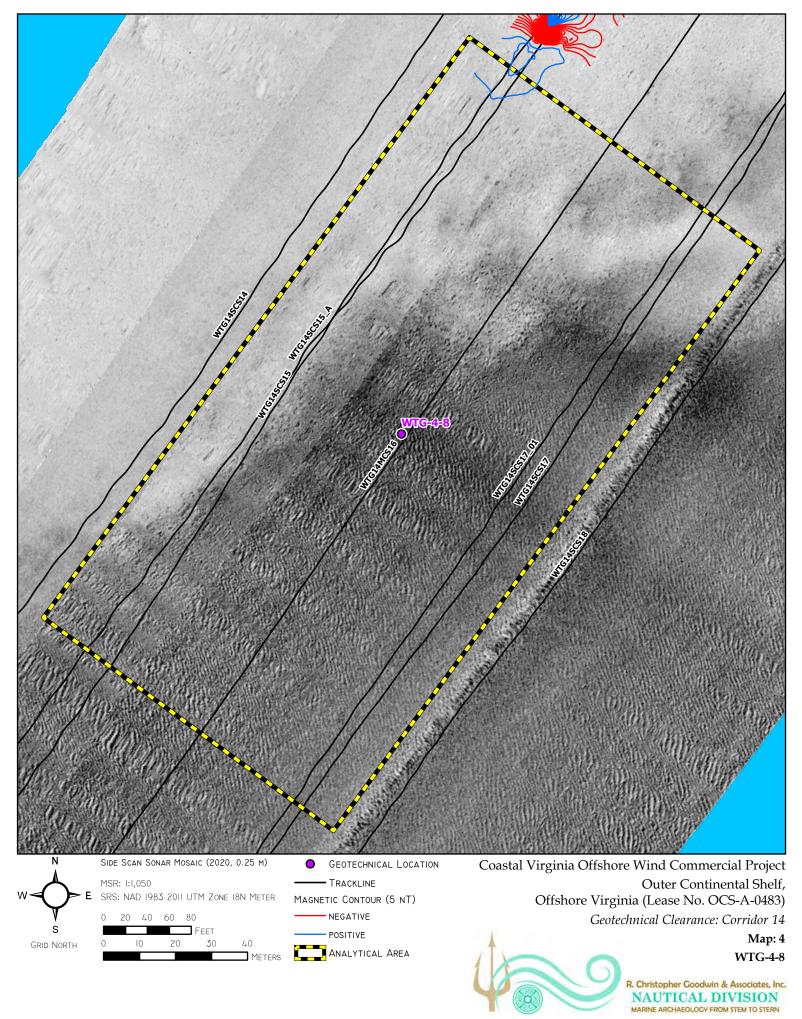


Index Map

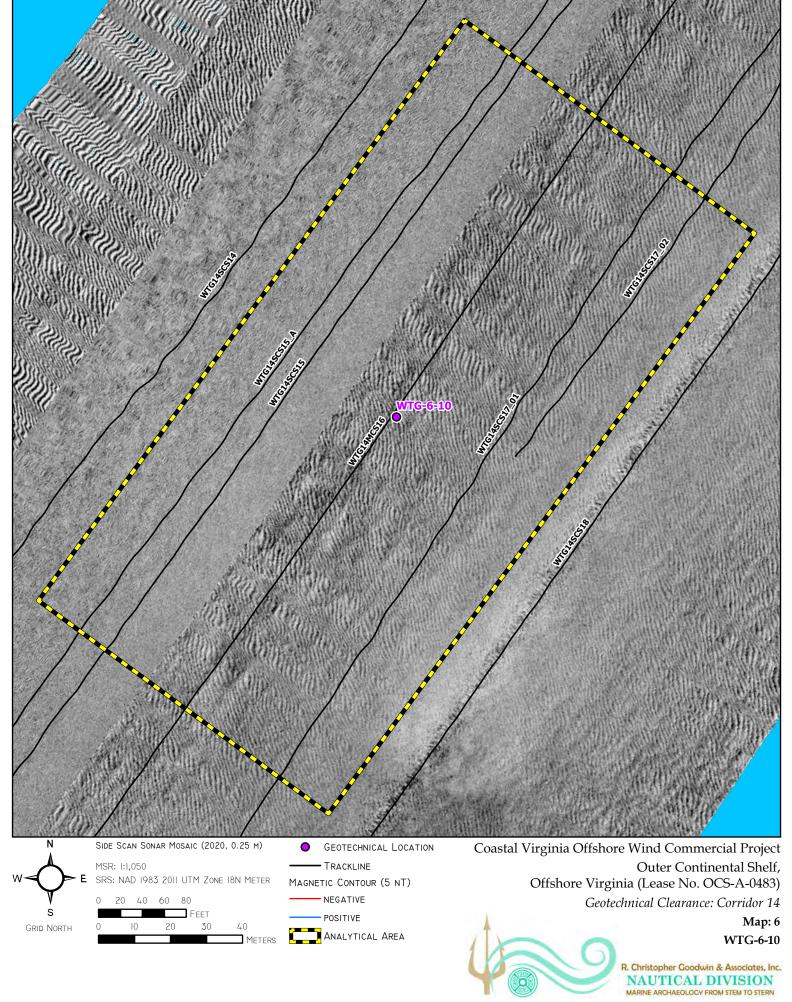




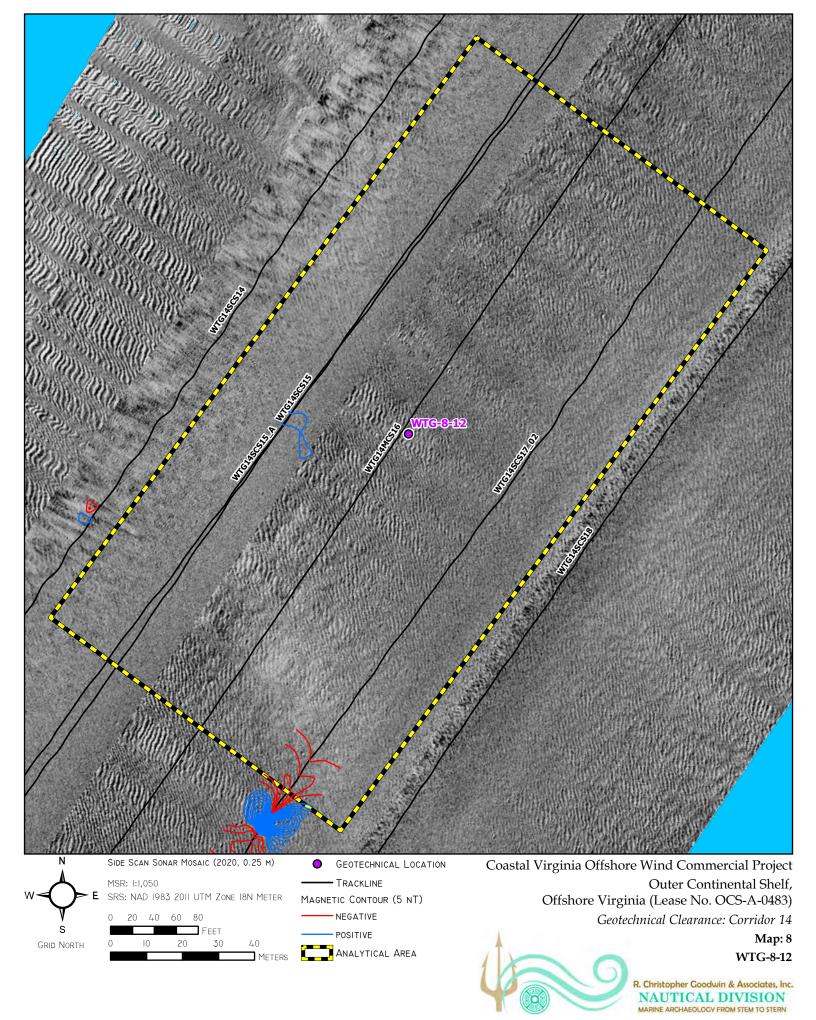


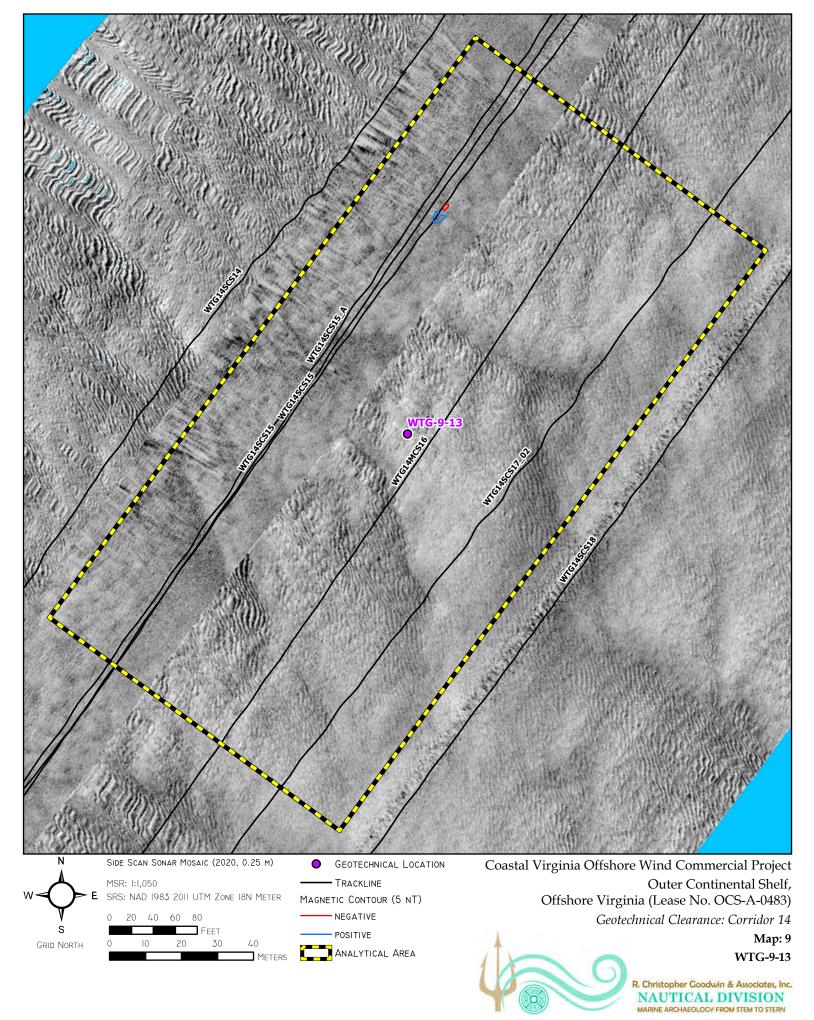


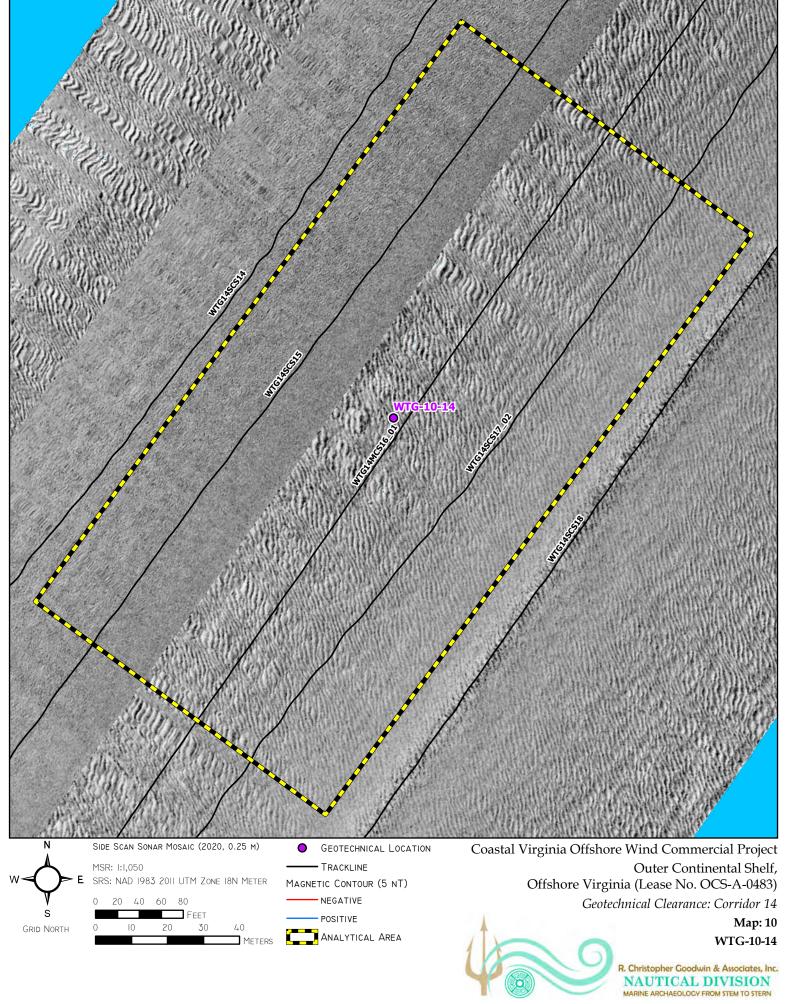


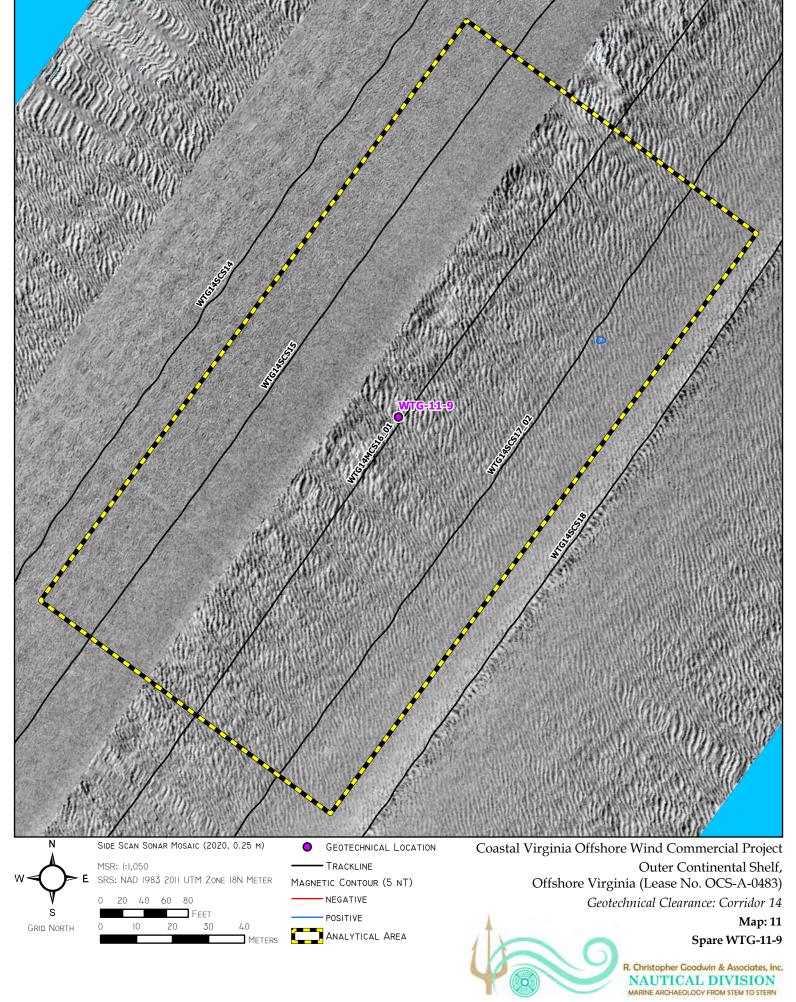


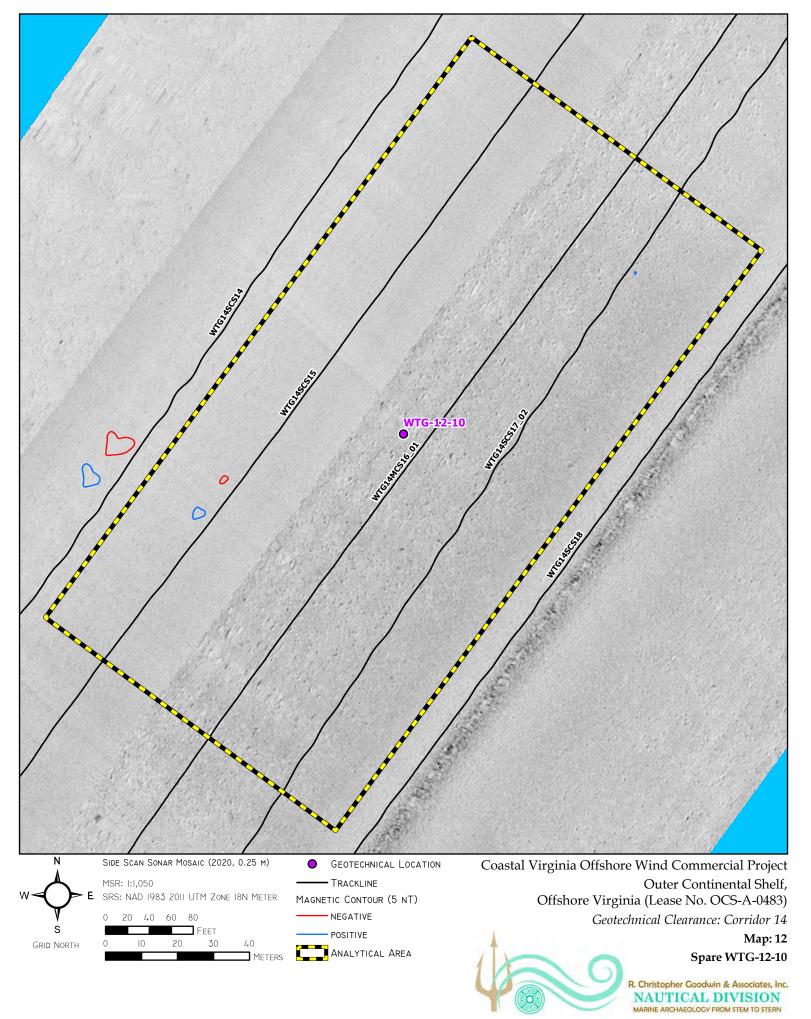




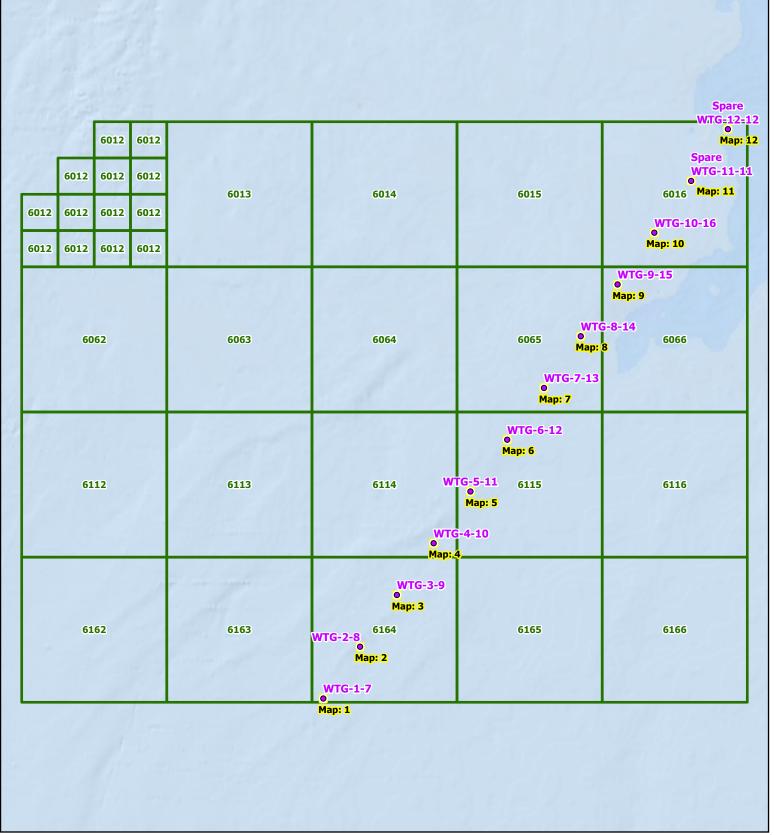


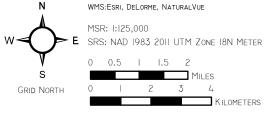


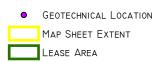




APPENDIX 4 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 16







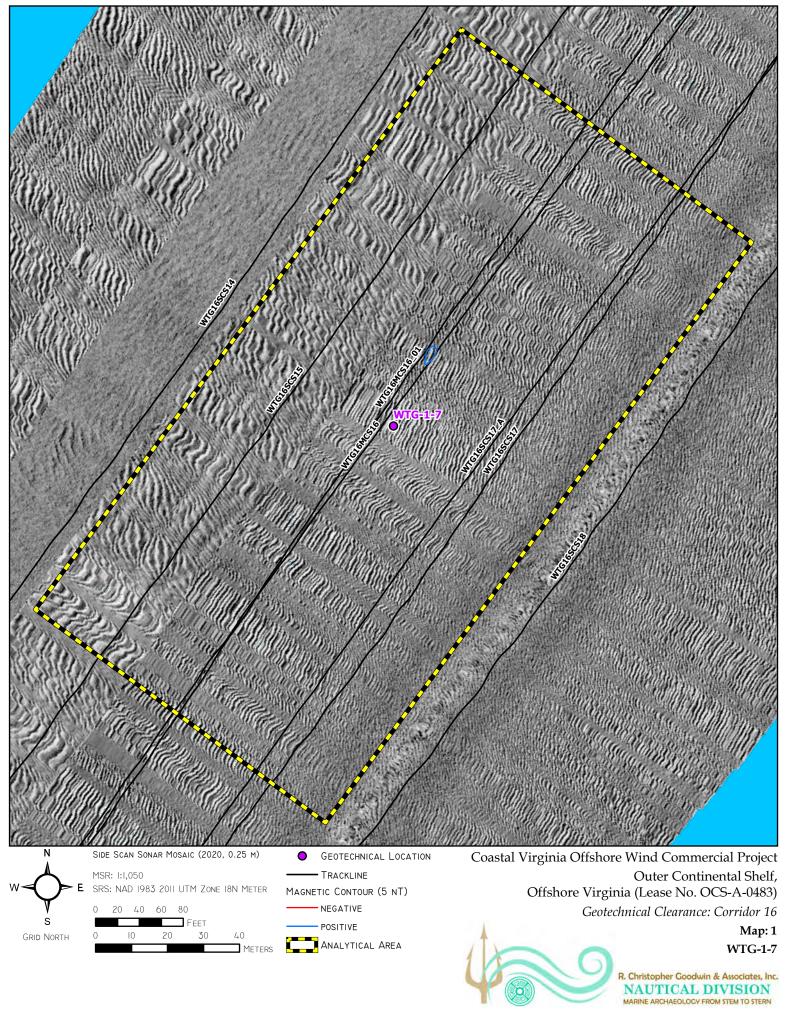
Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

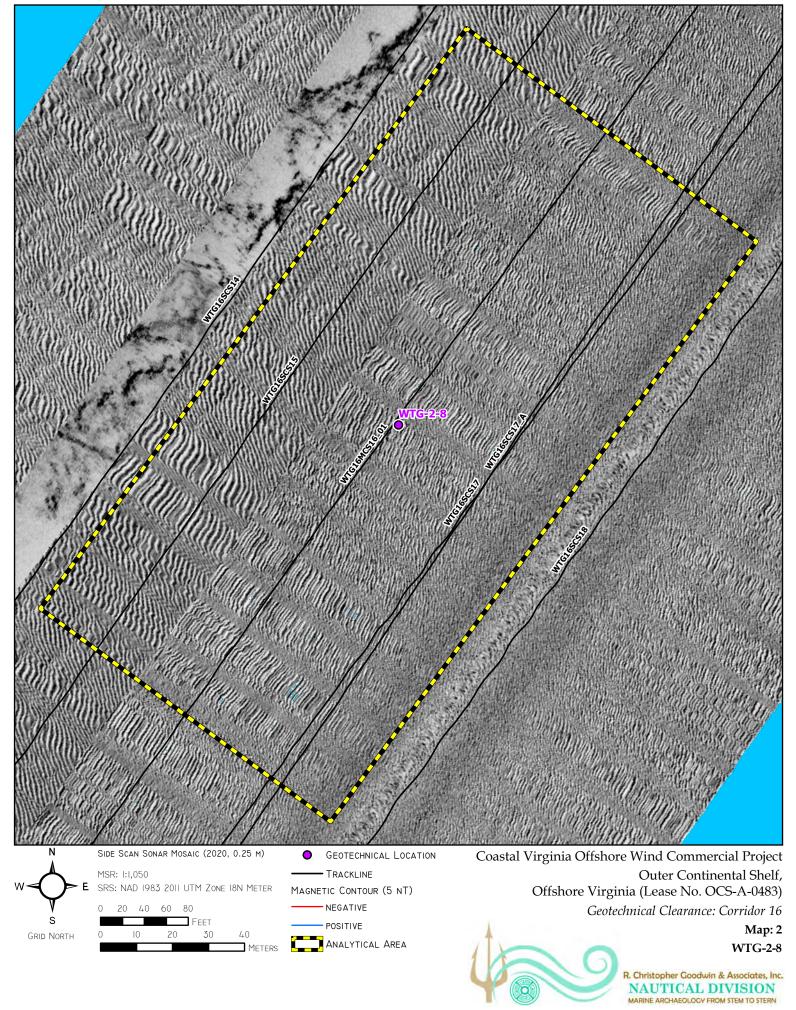
Geotechnical Clearance: Corridor 16

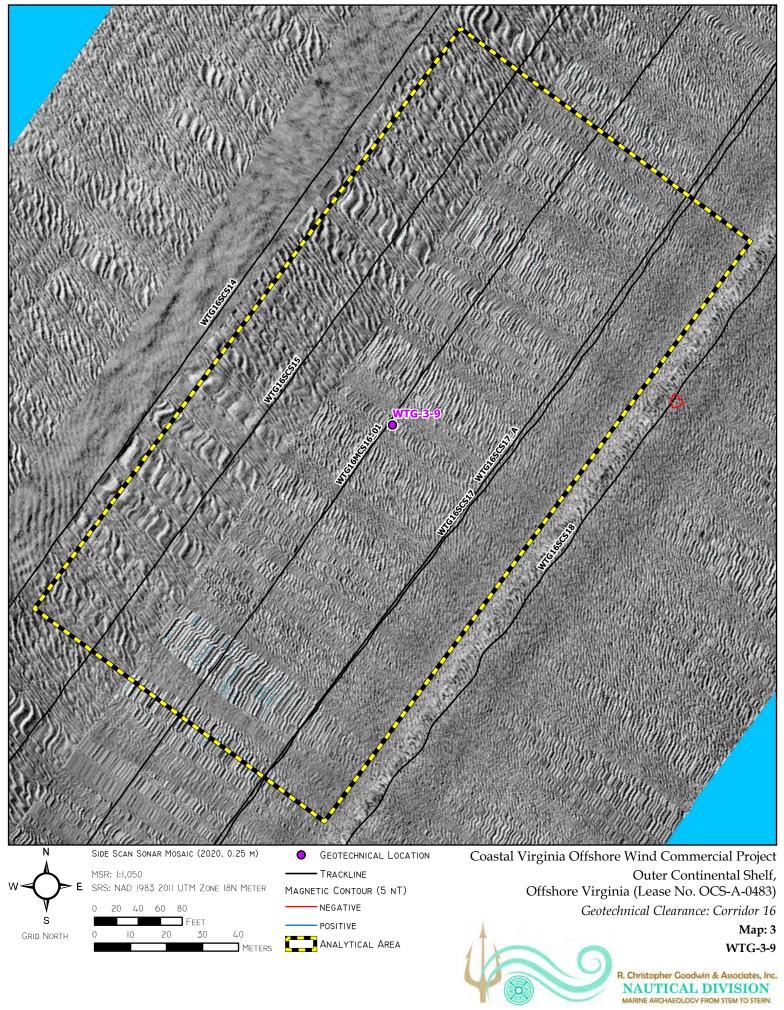


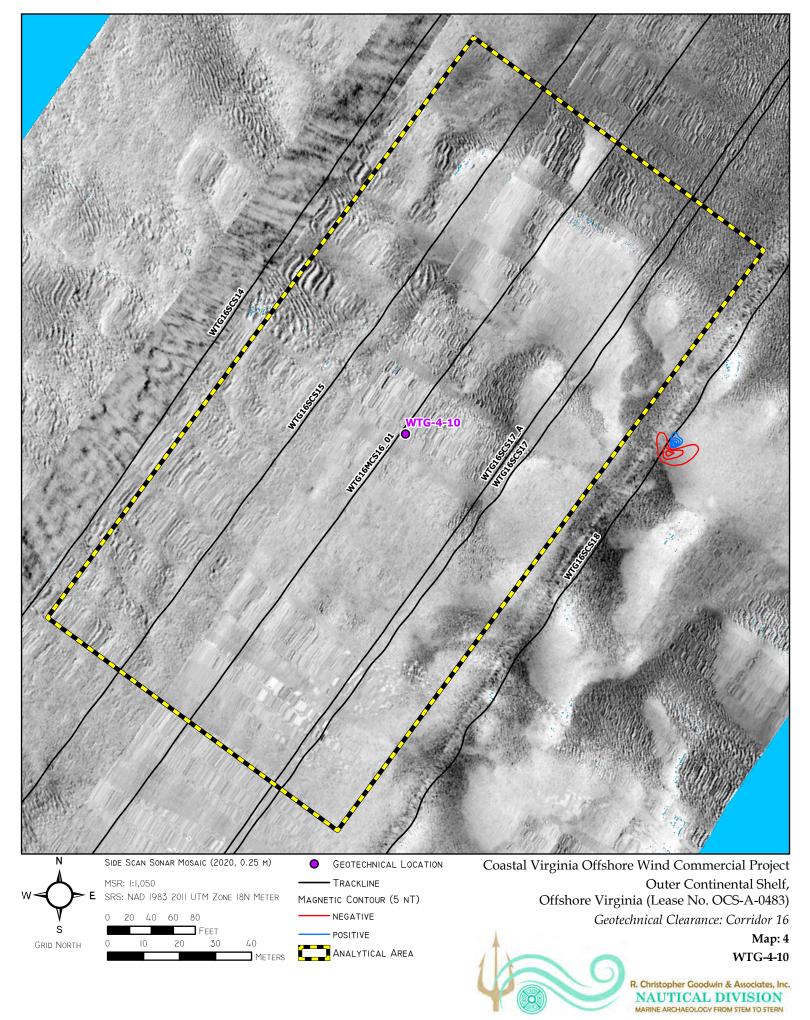
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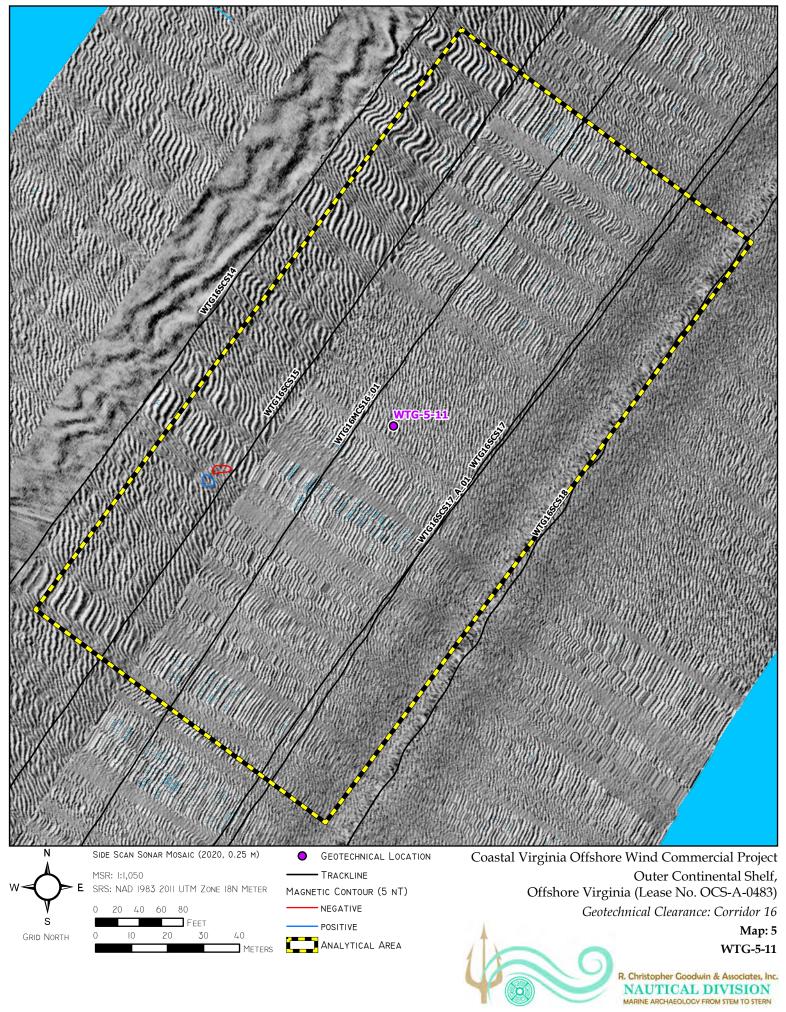
R. Christopher Goodwin & Associates, Inc. NAUTICAL DIVISION MARINE ARCHAEOLOGY FROM STEM TO STERN

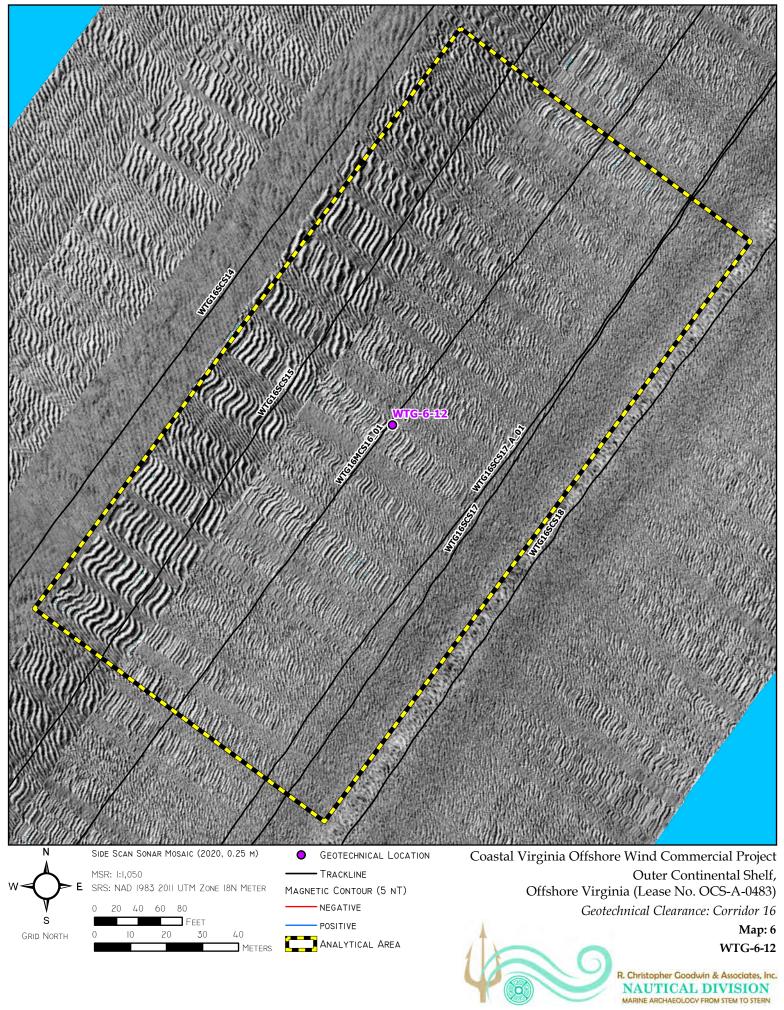


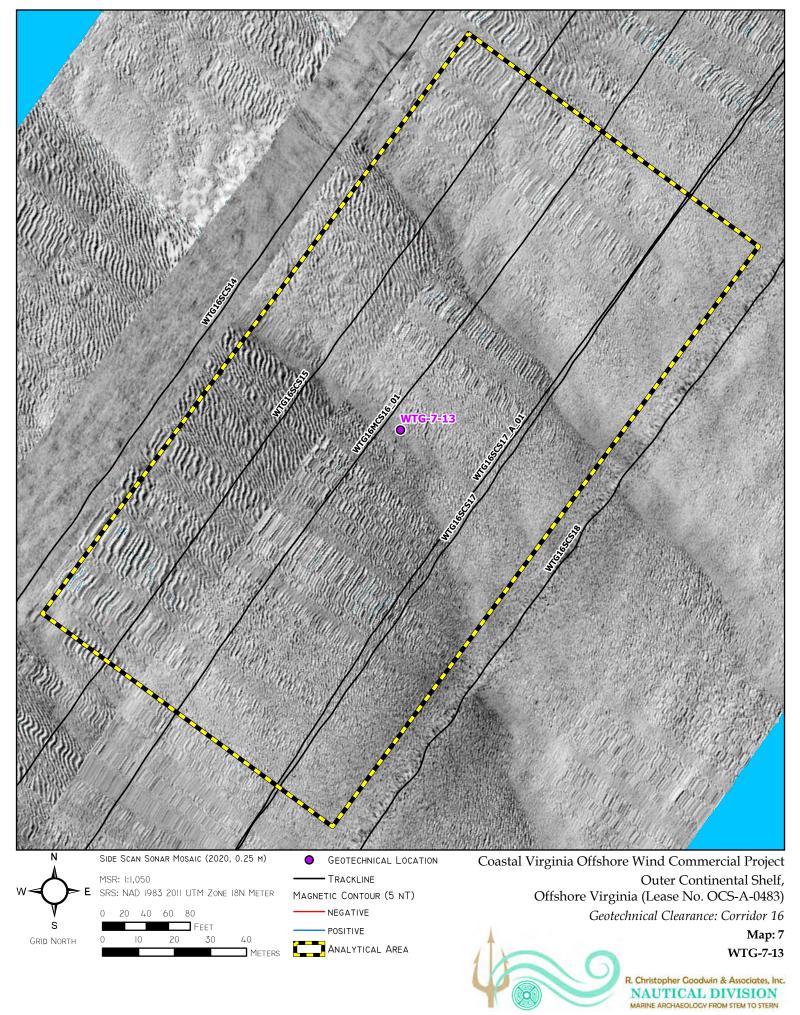


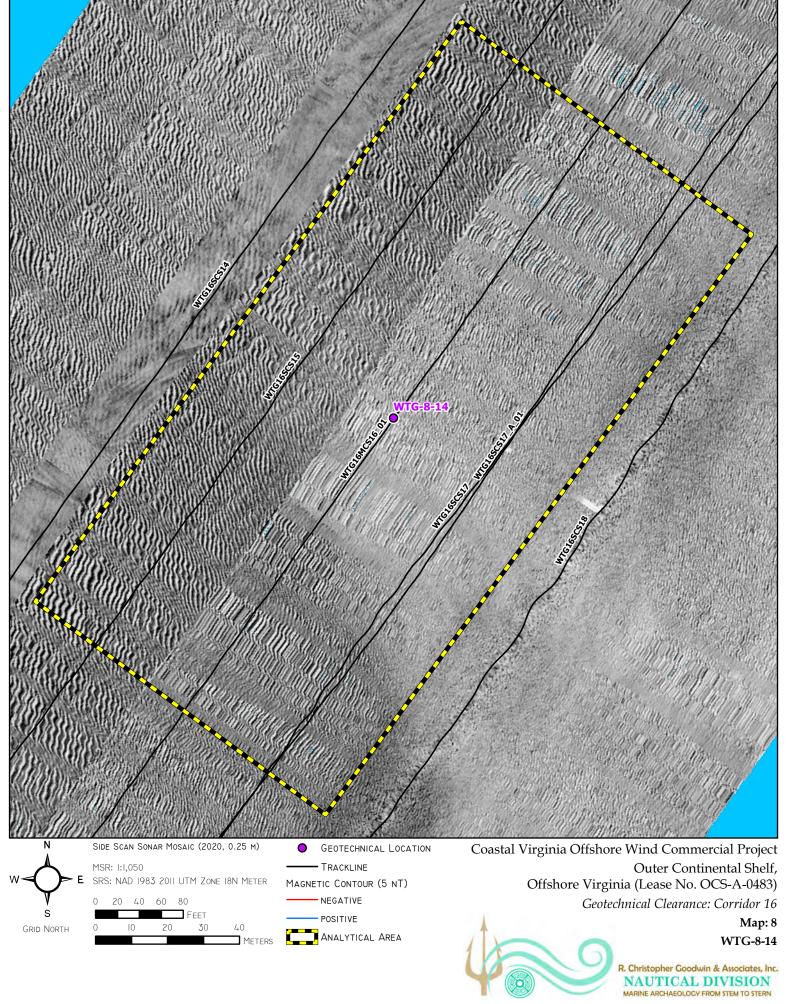


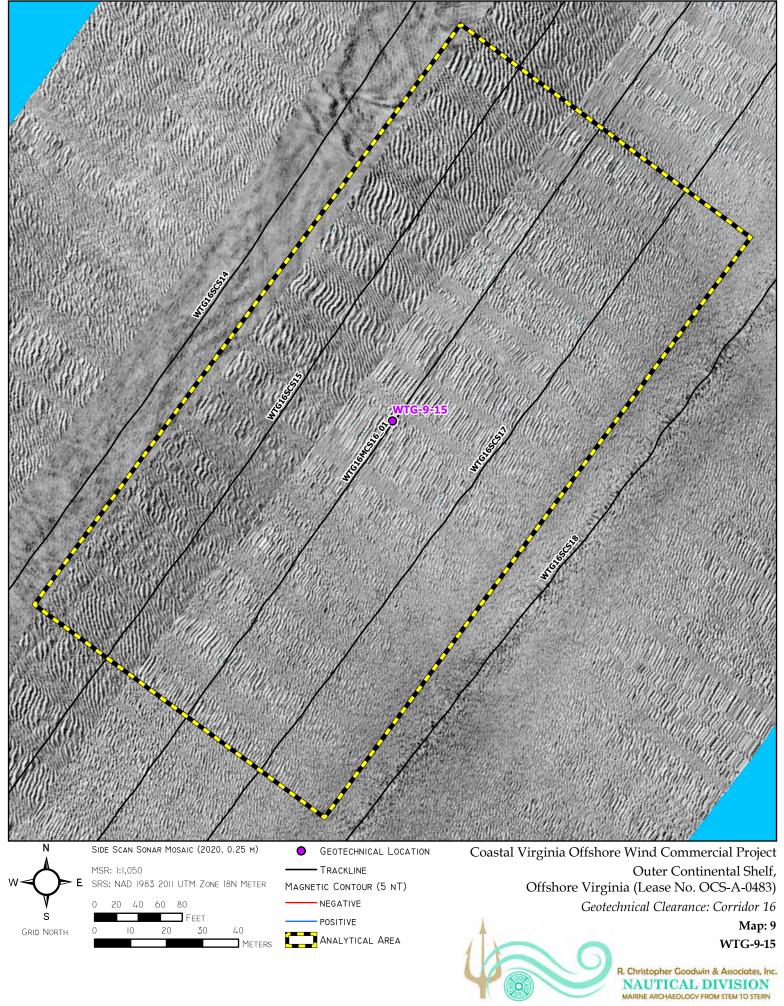


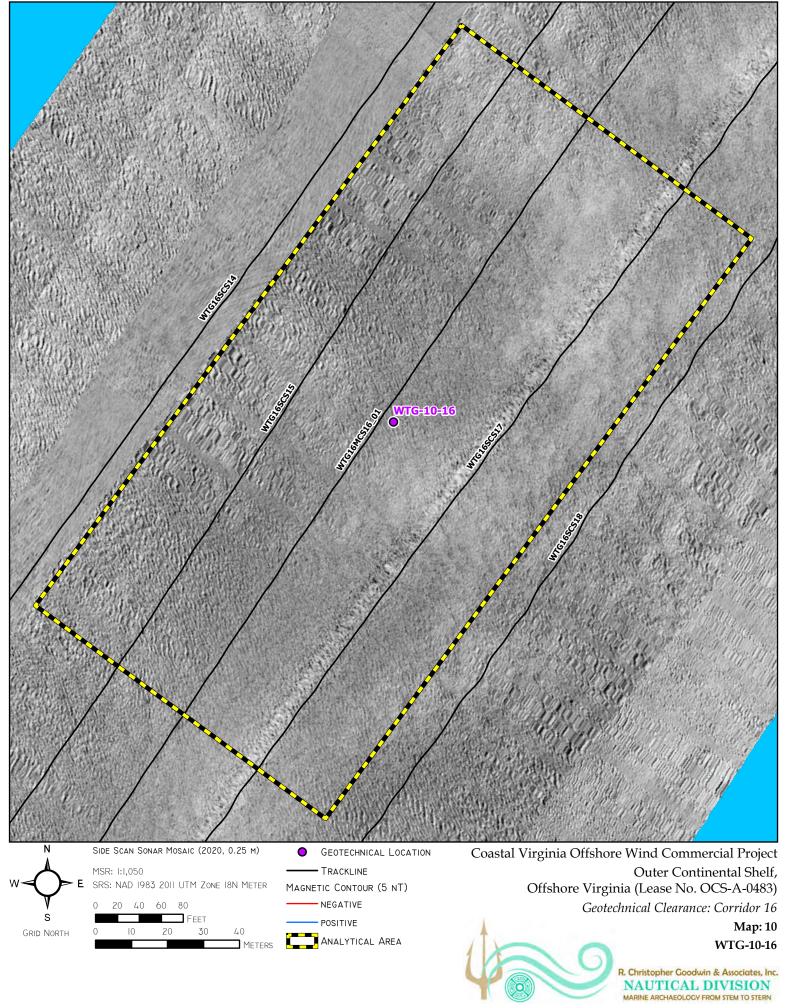


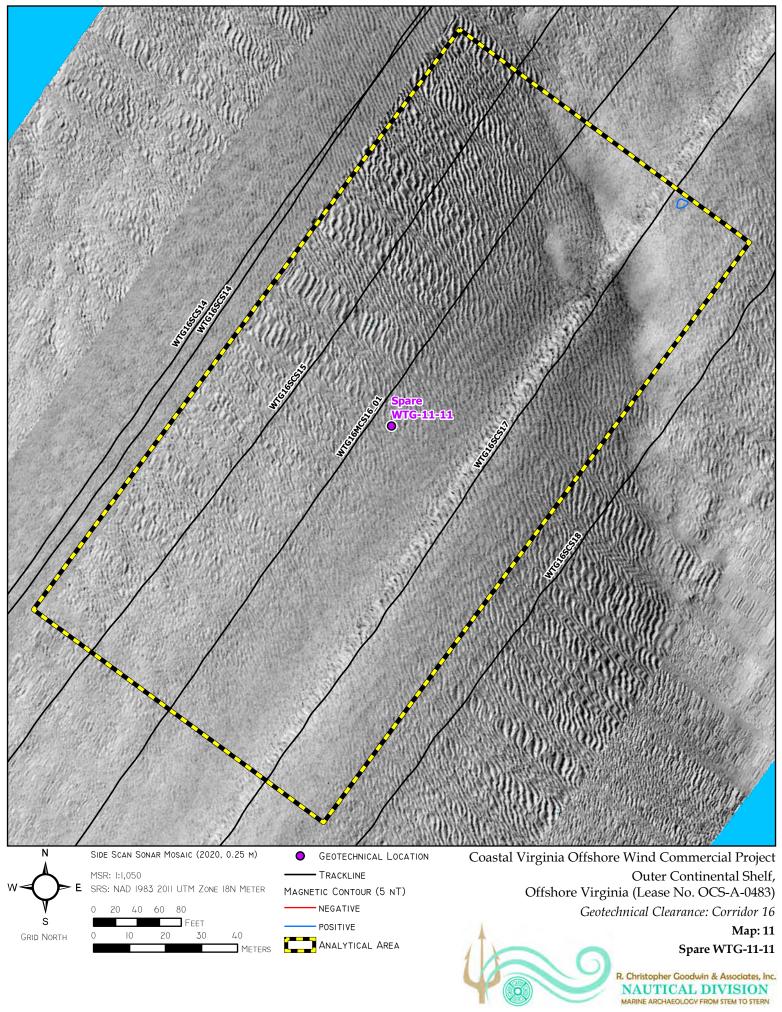


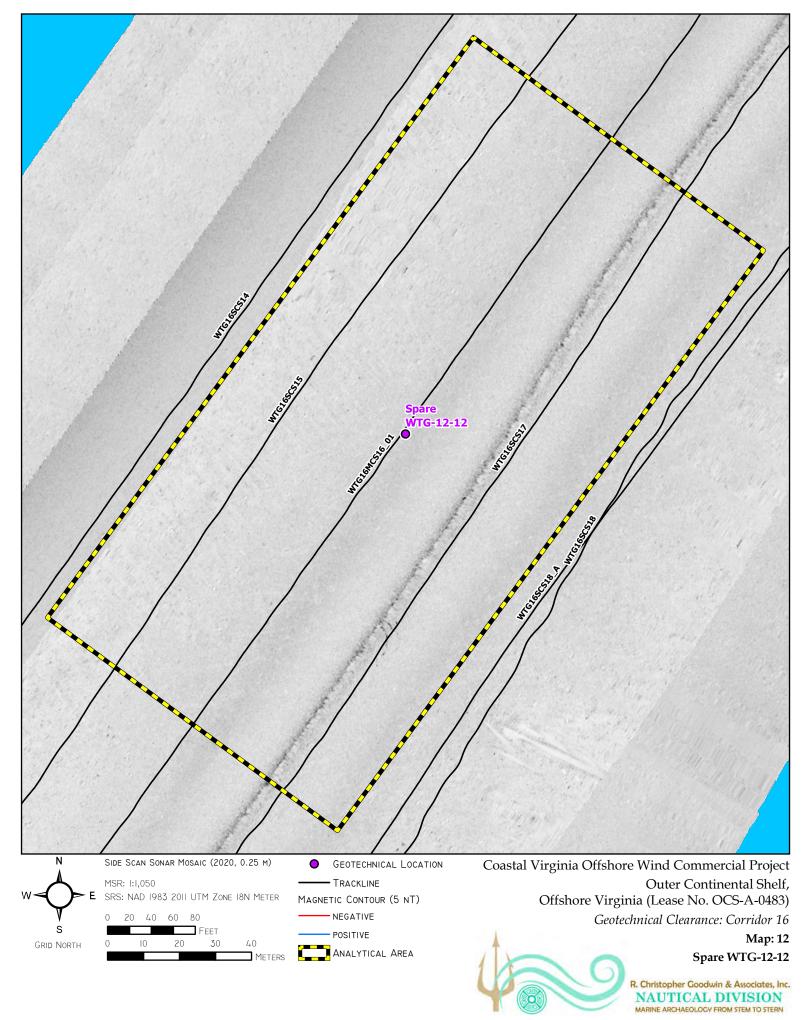




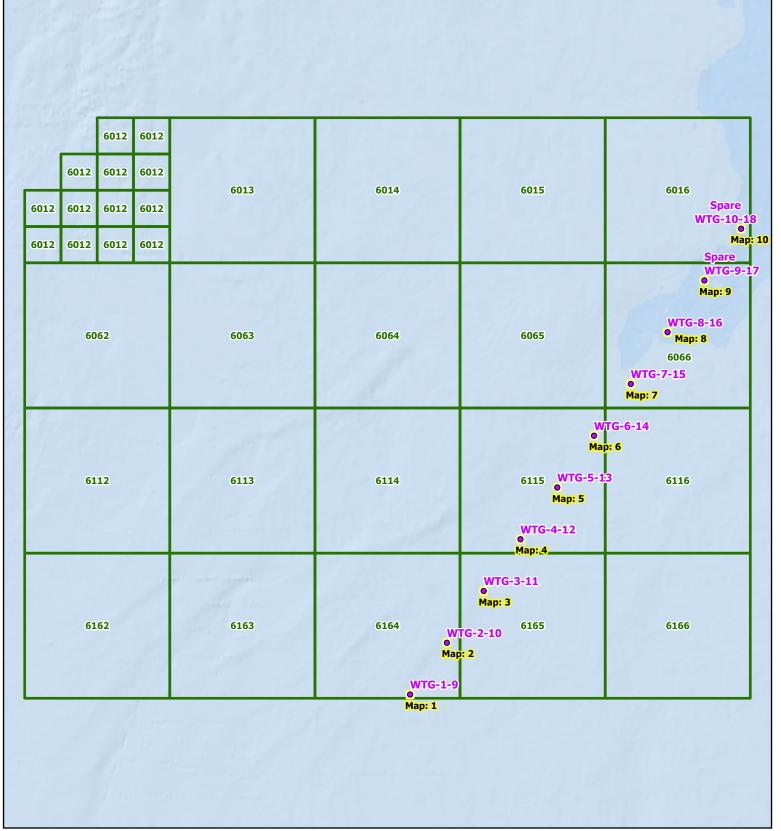


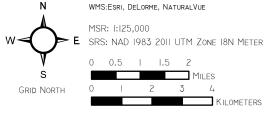


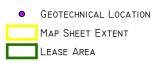




APPENDIX 5 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 18







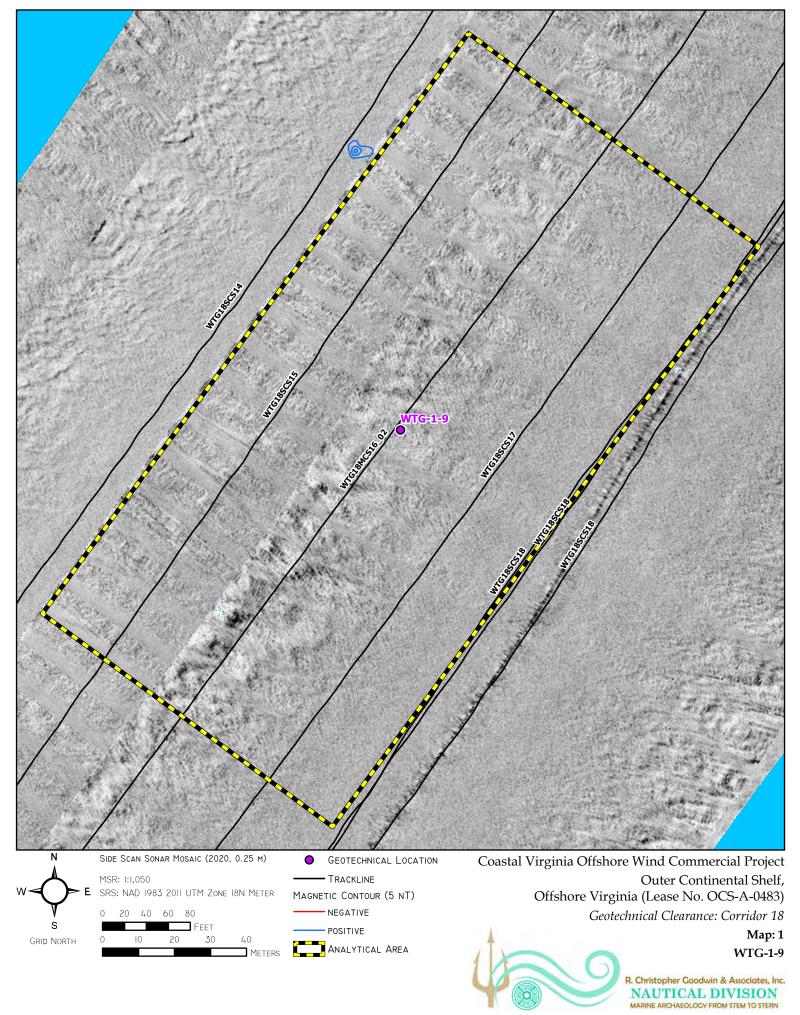
Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

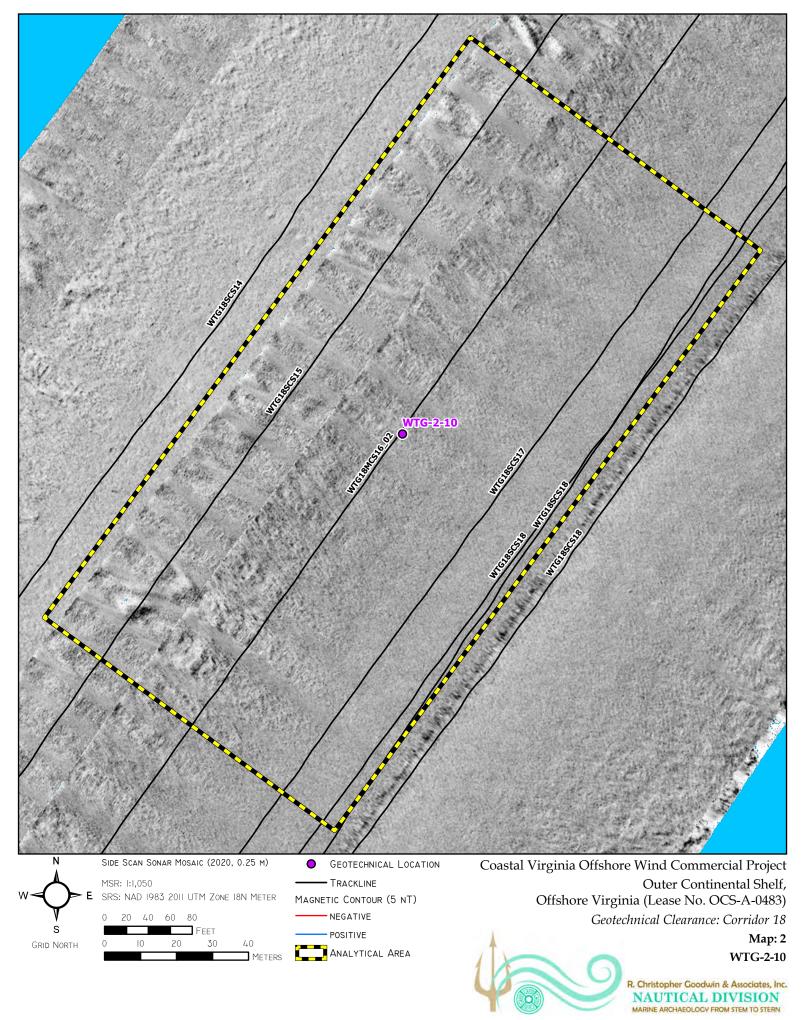
Geotechnical Clearance: Corridor 18

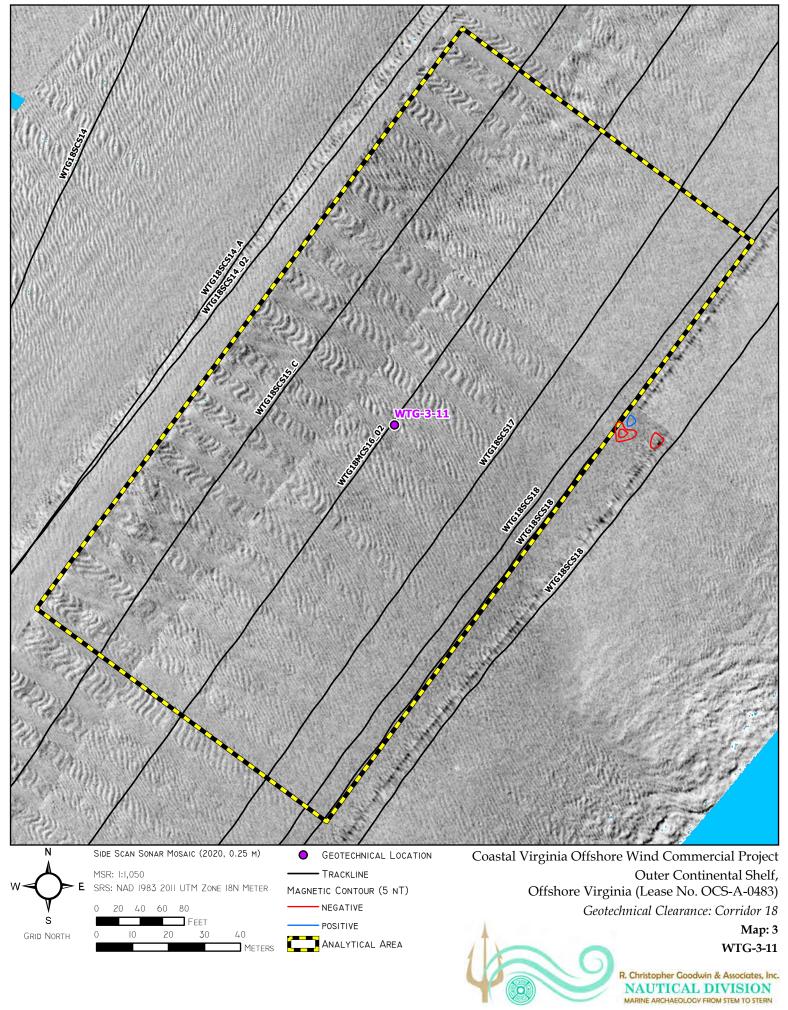


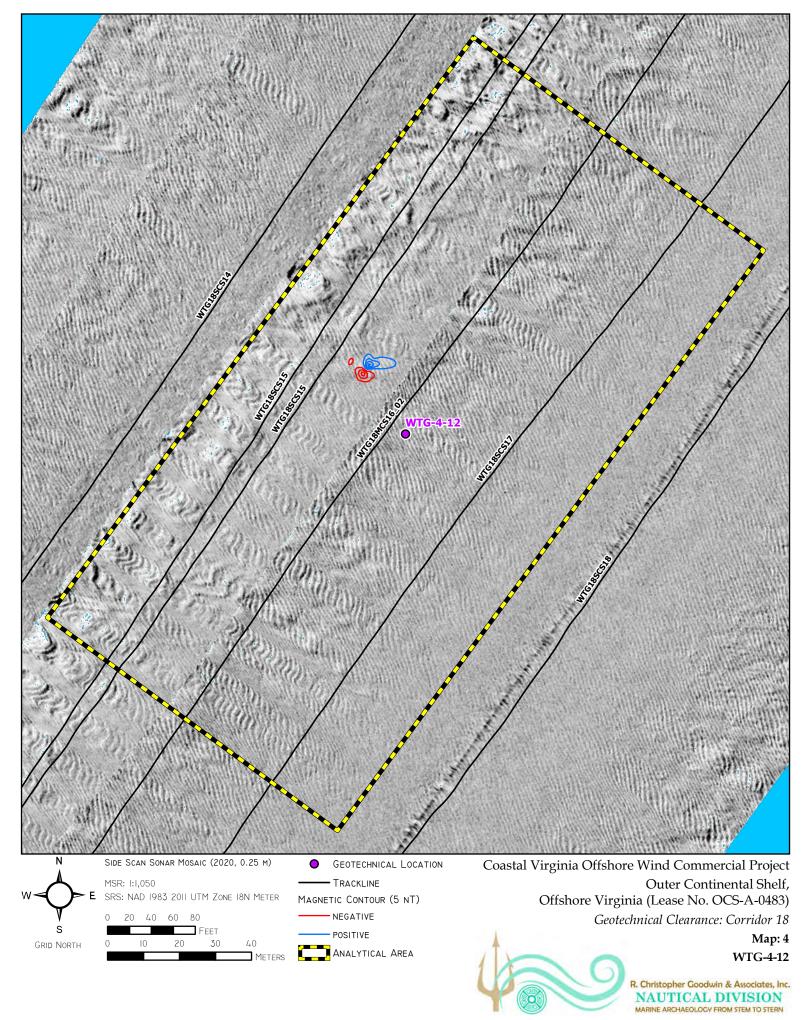
R. Christopher Goodwin & Associates, Inc. NAUTICAL DIVISION

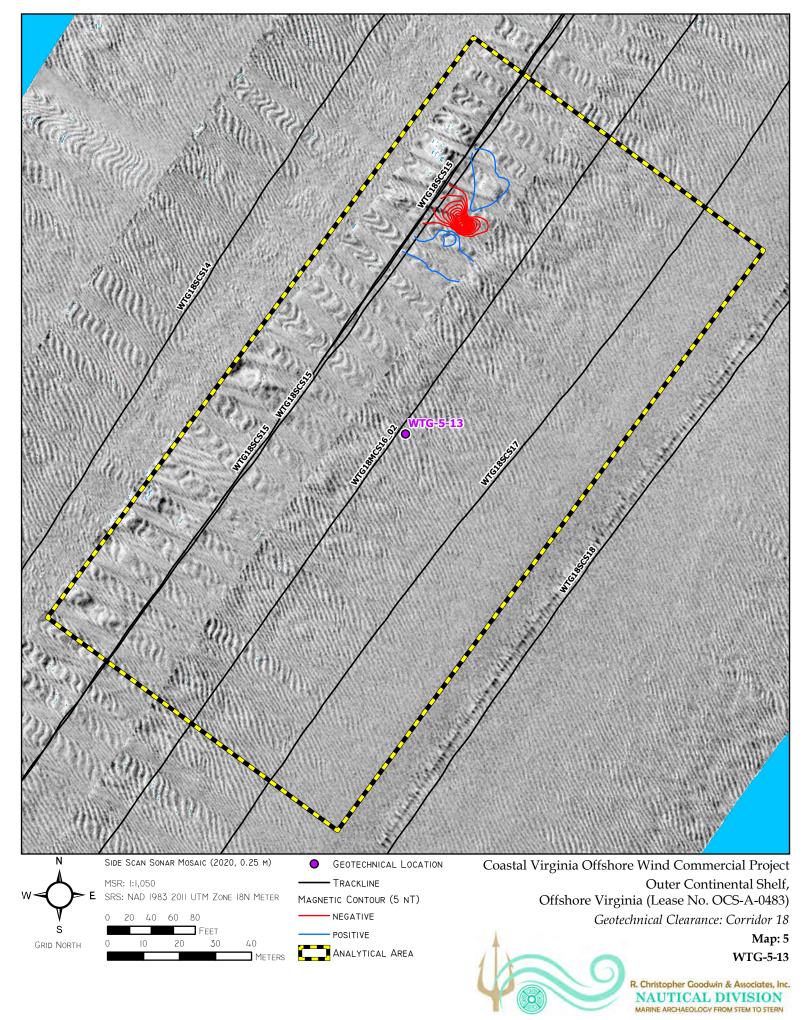
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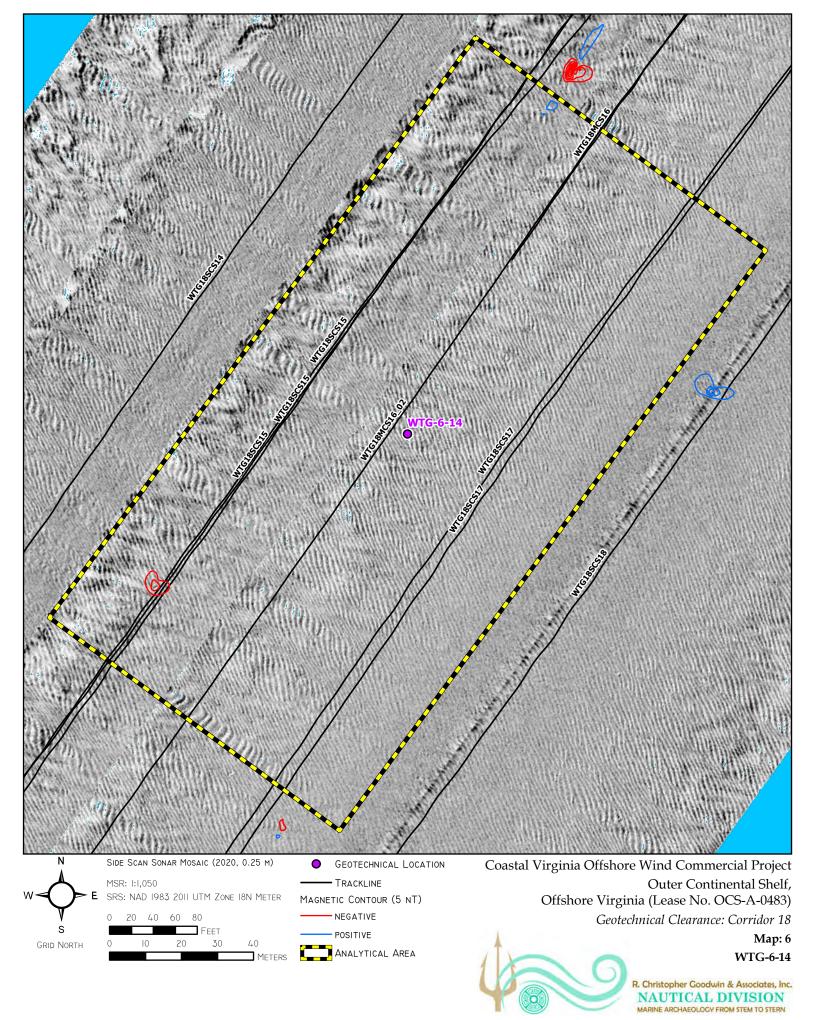


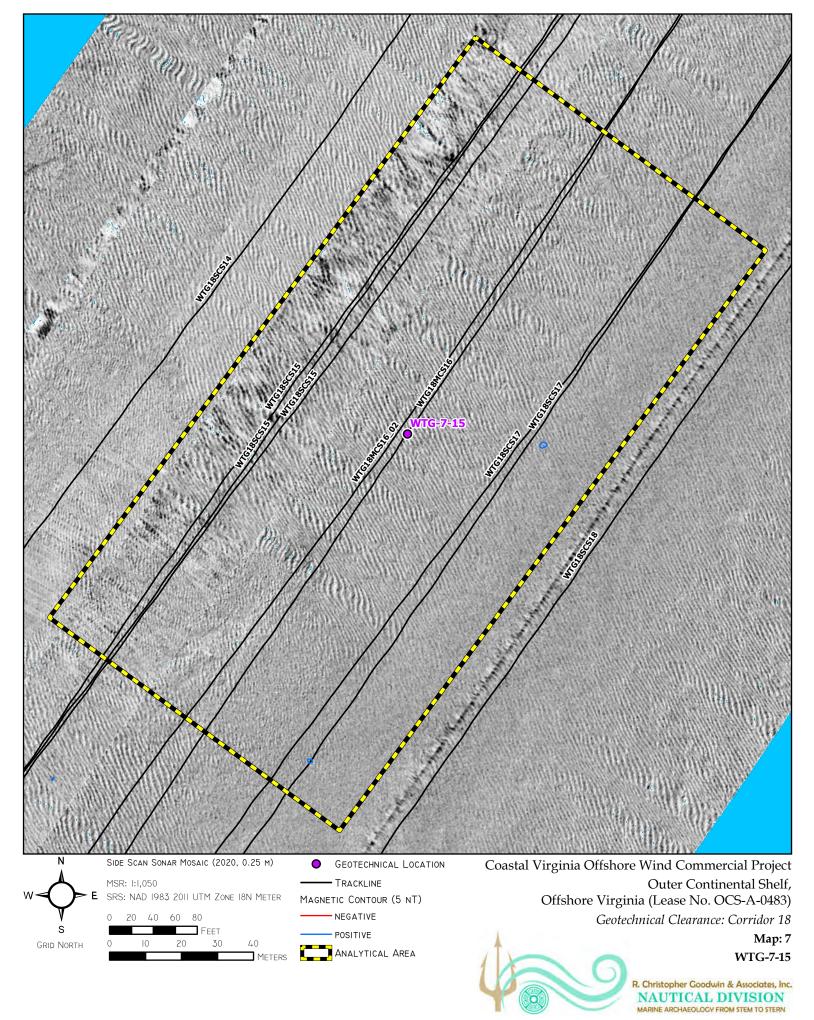


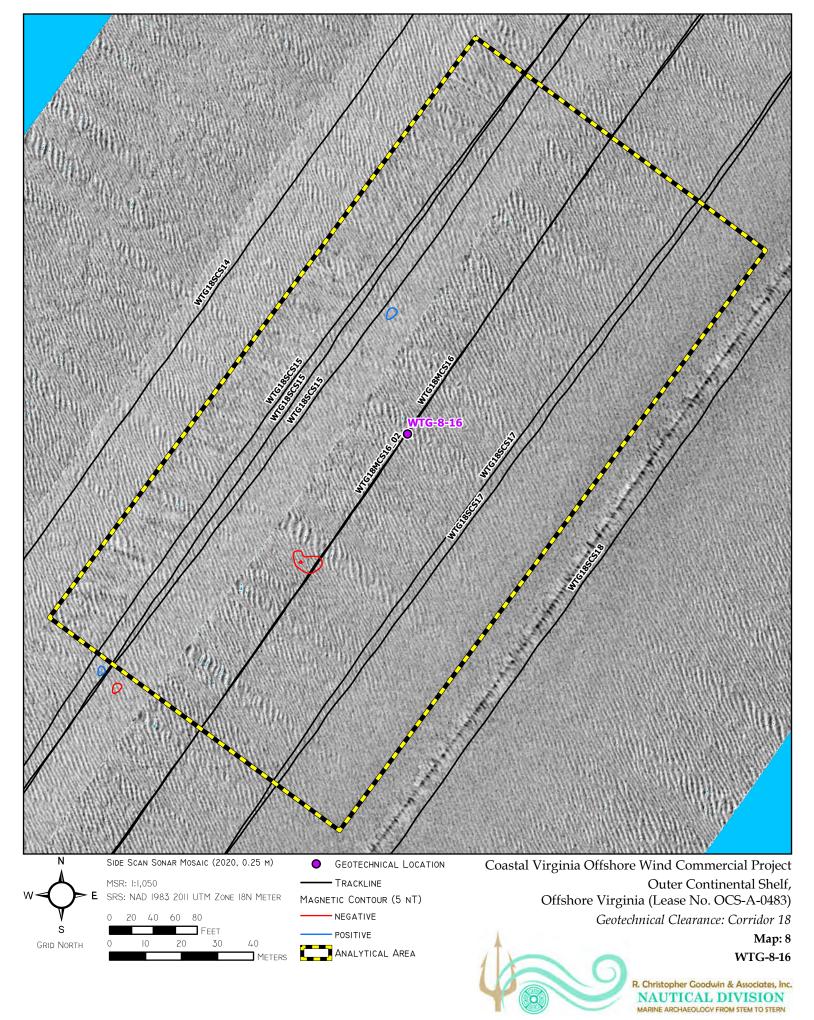


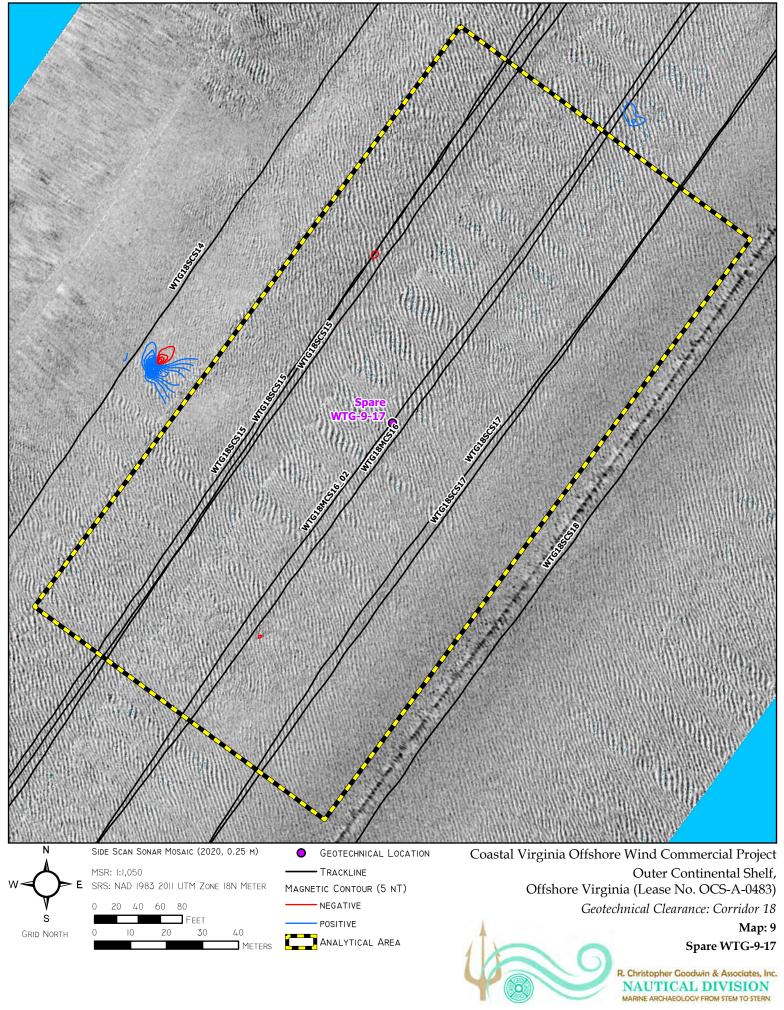


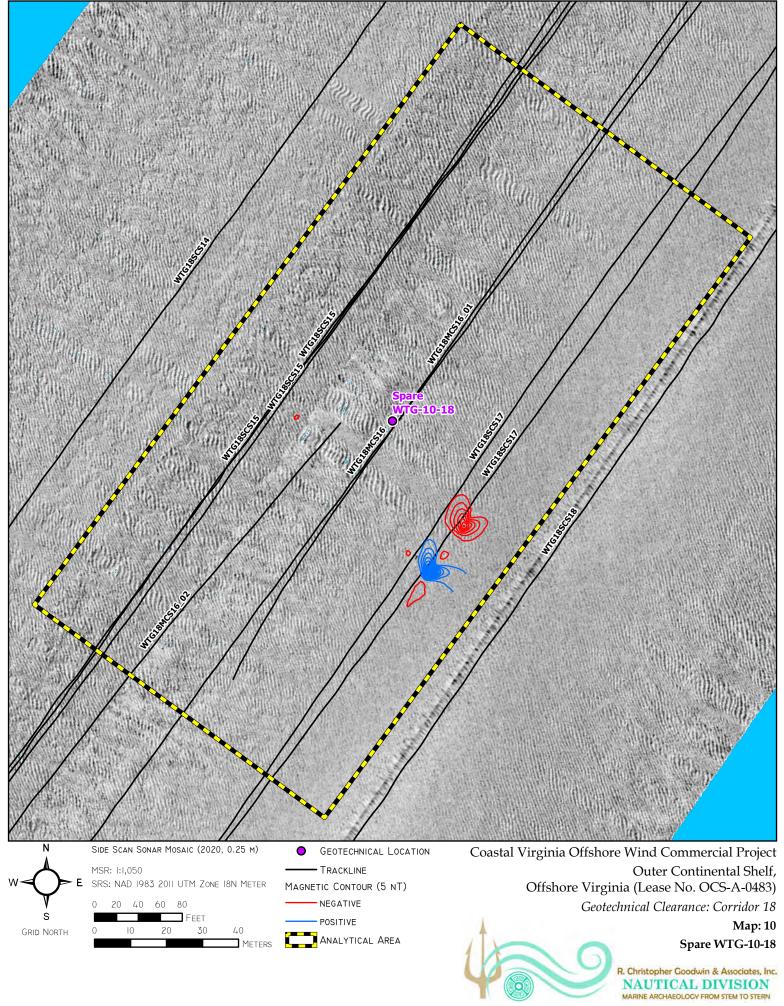




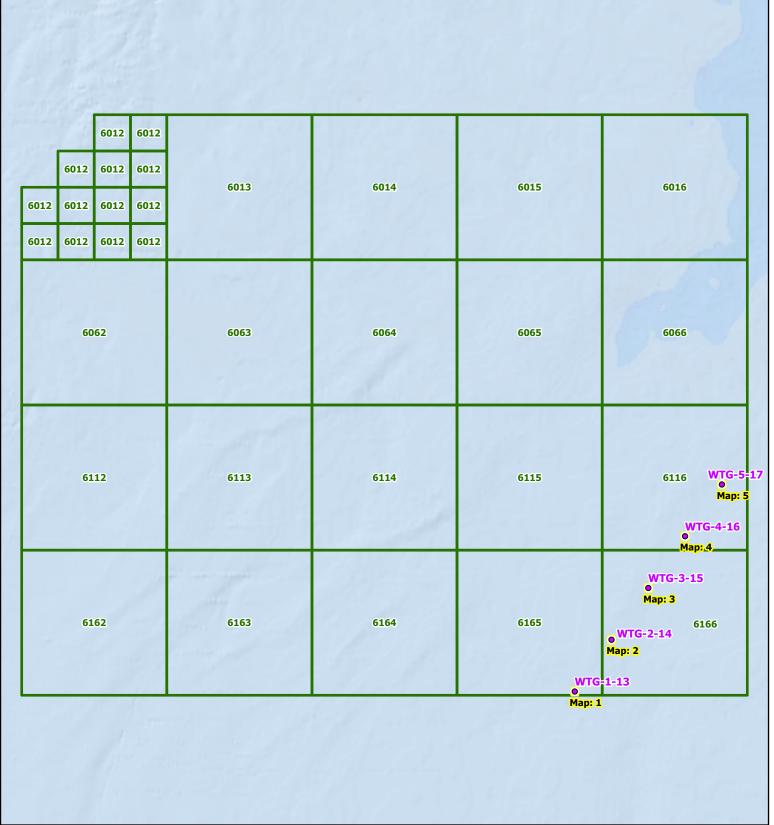


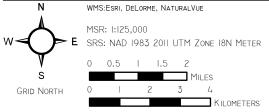


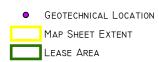




APPENDIX 6 ARCHAEOLOGICAL RESOURCES MAPS FOR CORRIDOR 22



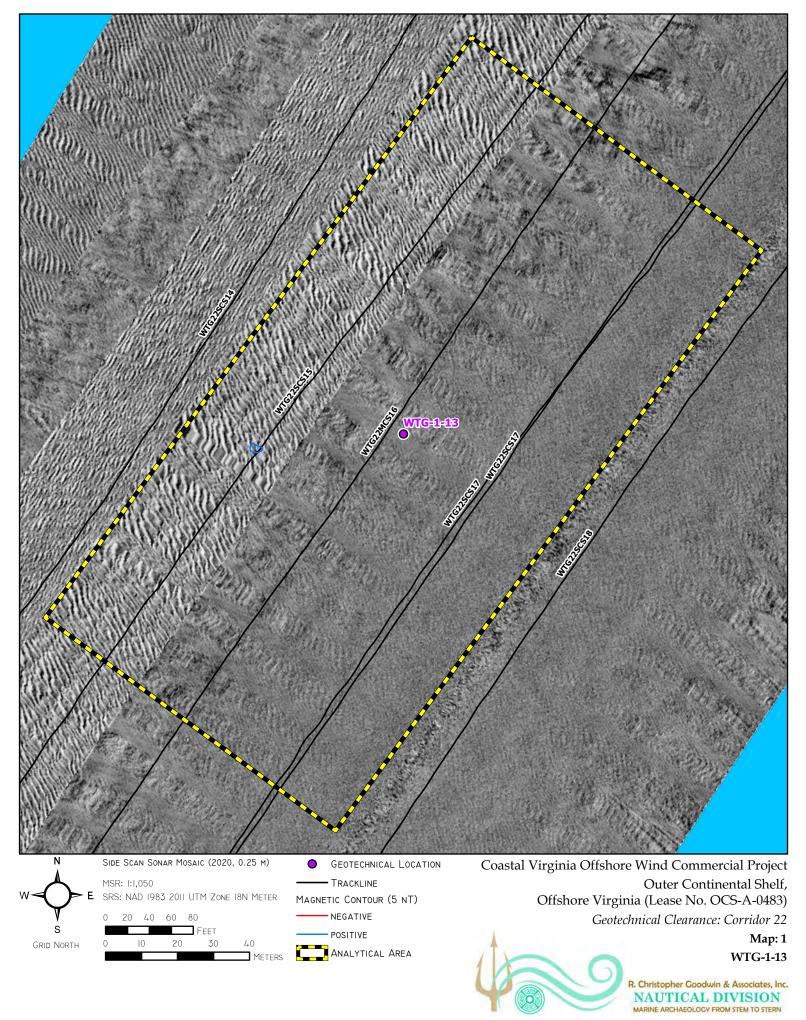


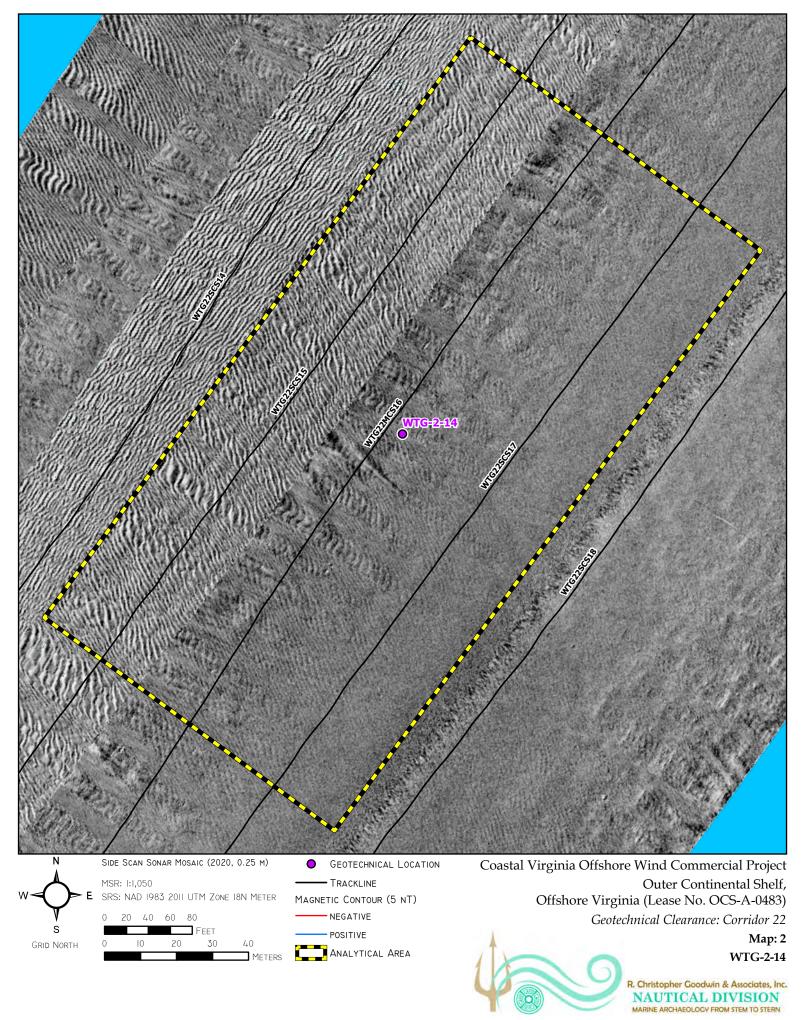


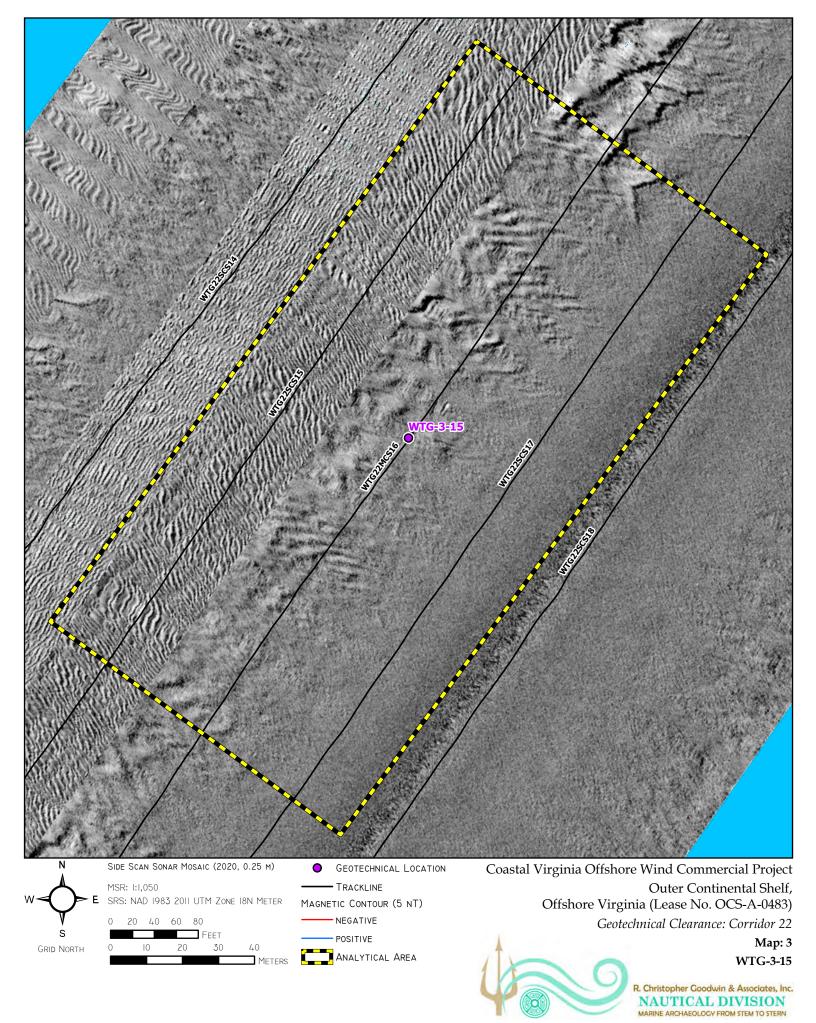
Coastal Virginia Offshore Wind Commercial Project Outer Continental Shelf, Offshore Virginia (Lease No. OCS-A-0483)

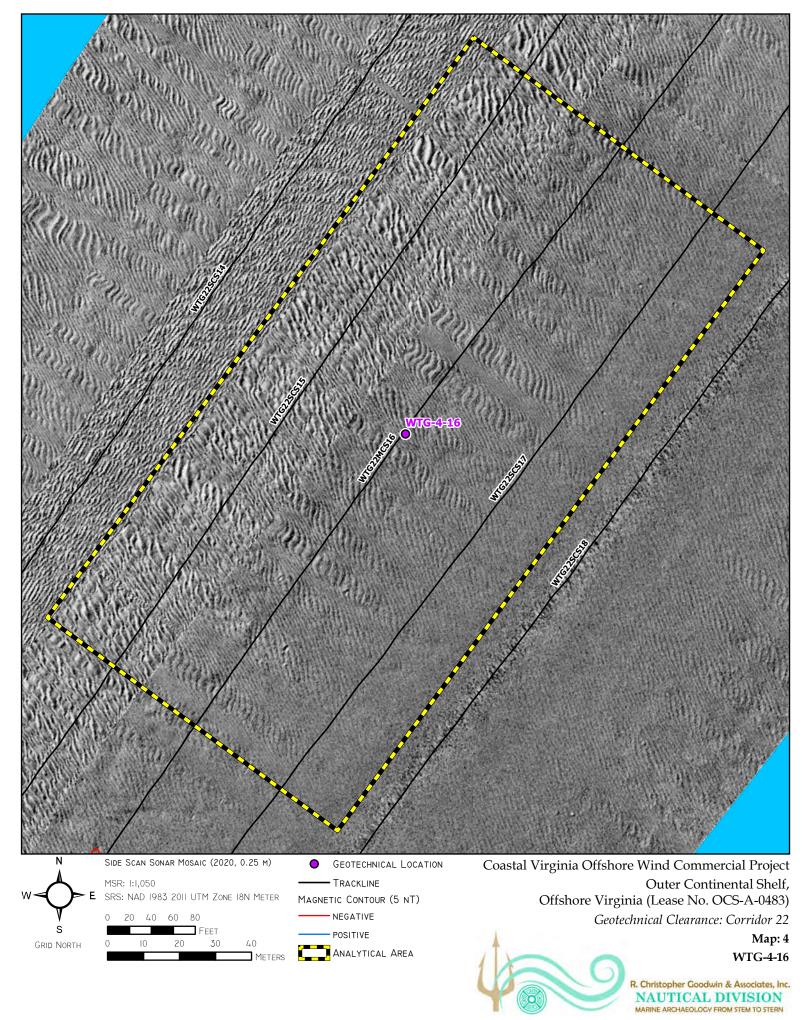
Geotechnical Clearance: Corridor 22

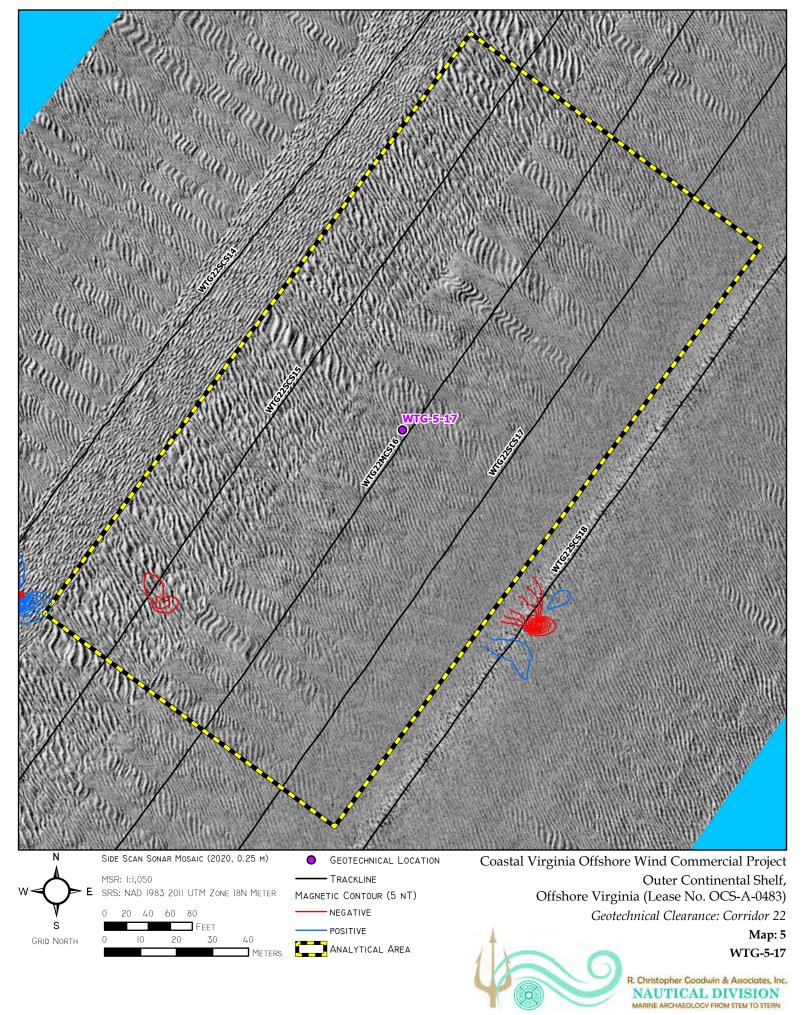












APPENDIX 7 SUB-BOTTOM PROFILE IMAGES FOR CORRIDOR 8

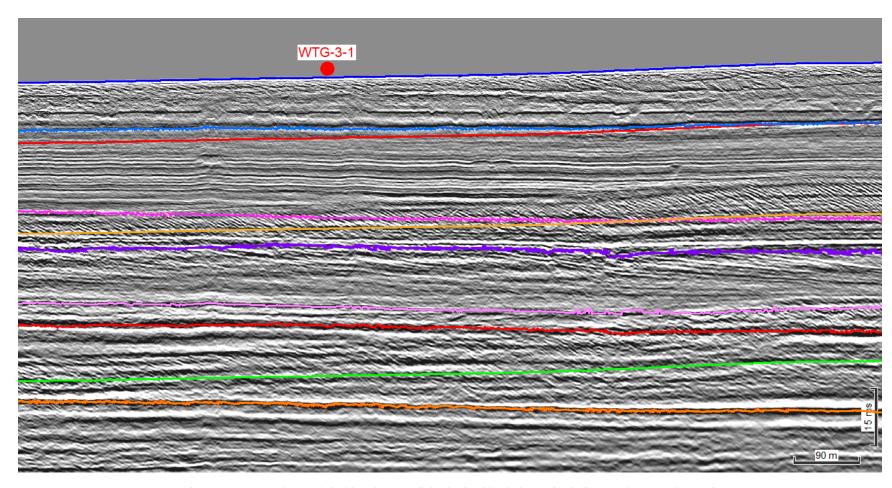


Figure 7-1: Proposed geotechnical locations WTG-3-1 in Corridor 8 along seismic line TLB07_A_FAST_MIG

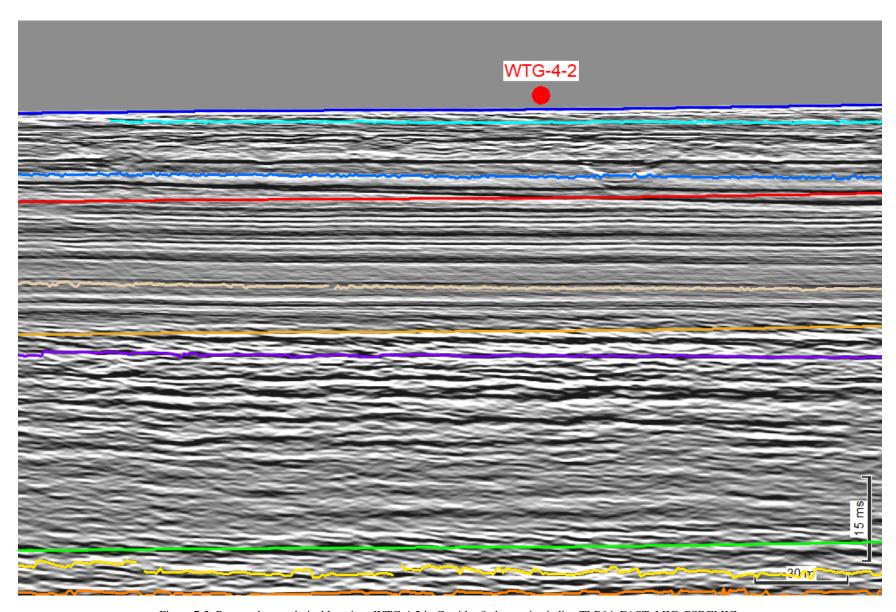


Figure 7-2: Proposed geotechnical locations WTG-4-2 in Corridor 8 along seismic line TLB14_FAST_MIG_PSDEMUL

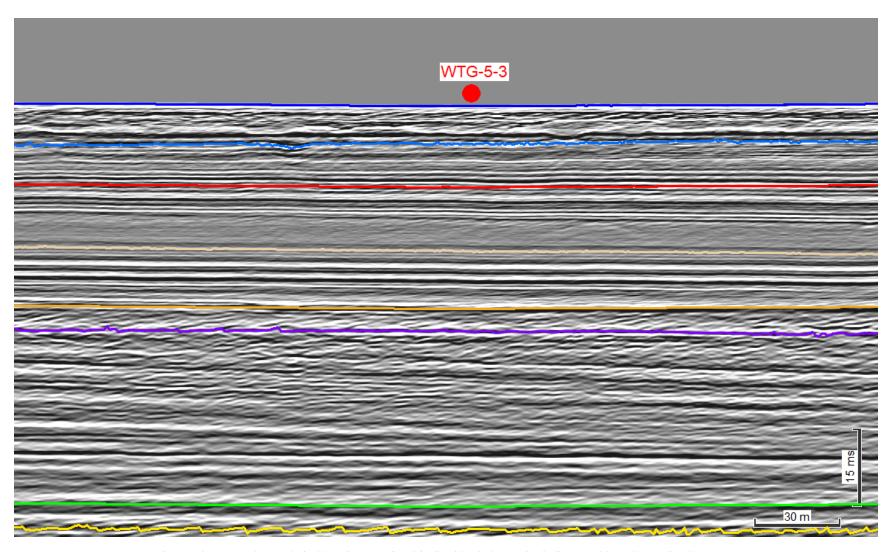


Figure 7-3: Proposed geotechnical locations WTG-5-3 in Corridor 8 along seismic line TLB20_FAST_MIG_PSDEMUL

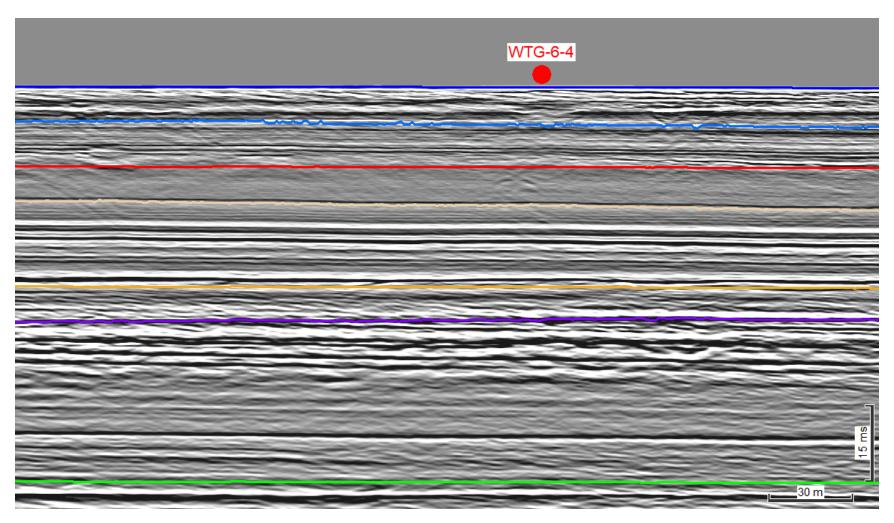


Figure 7-4: Proposed geotechnical locations WTG-6-4 in Corridor 8 along seismic line TLB26_FAST_MIG_PSDEMUL

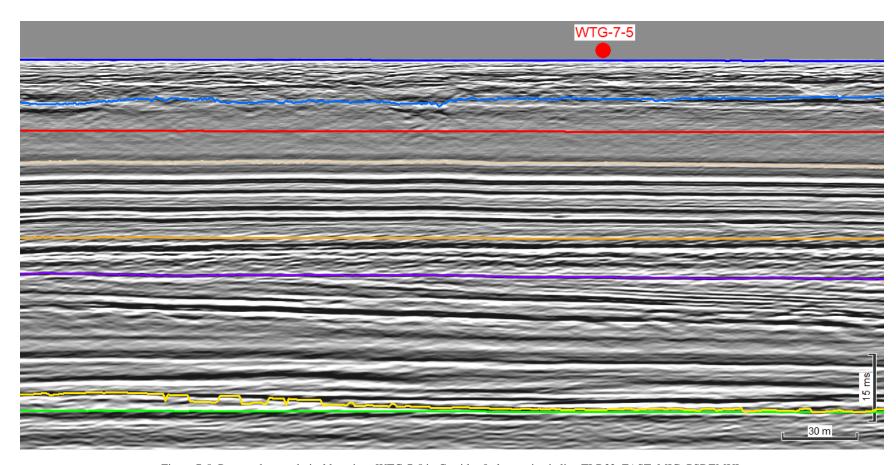


Figure 7-5: Proposed geotechnical locations WTG-7-5 in Corridor 8 along seismic line TLB32_FAST_MIG_PSDEMUL

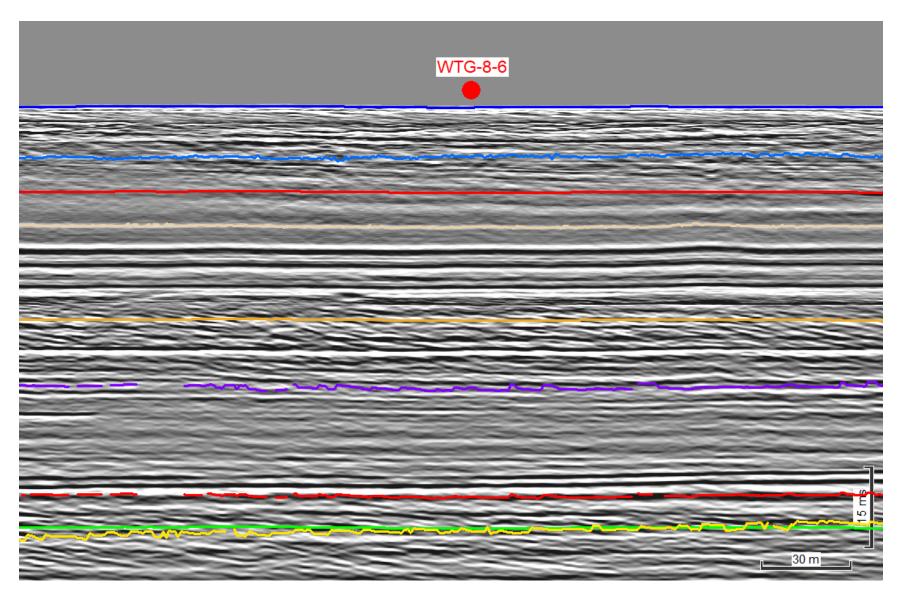


Figure 7-6: Proposed geotechnical locations WTG-8-6 in Corridor 8 along seismic line TLB32_02_FAST_MIG_PSDEMUL

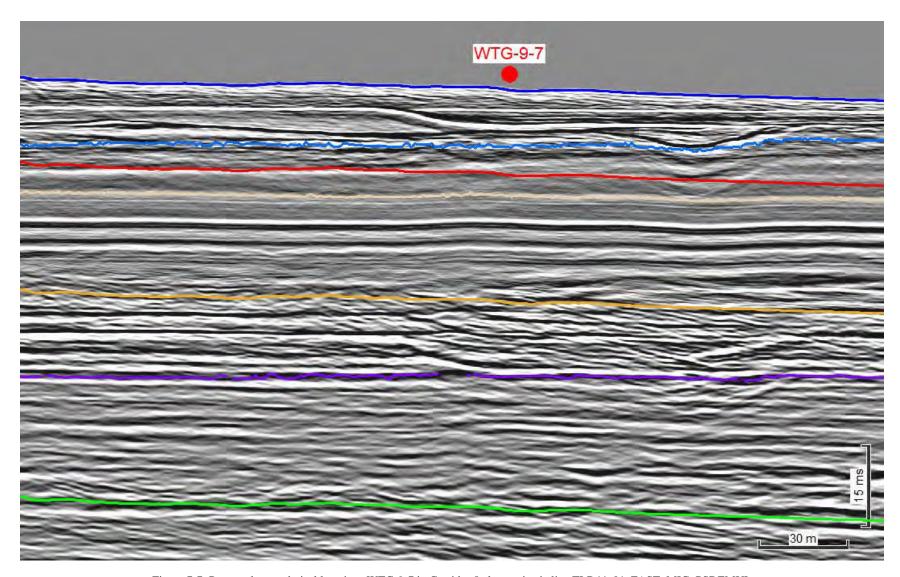


Figure 7-7: Proposed geotechnical locations WTG-9-7 in Corridor 8 along seismic line TLB44_01_FAST_MIG_PSDEMUL

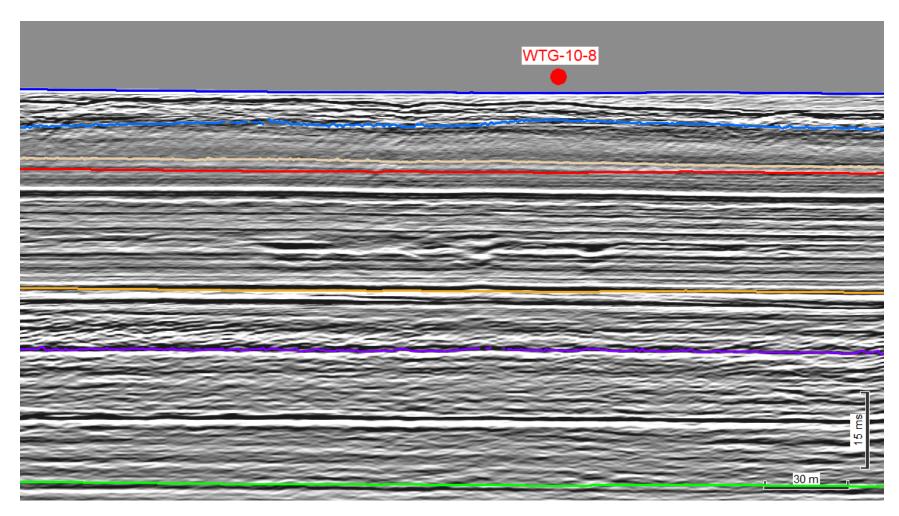


Figure 7-8: Proposed geotechnical locations WTG-10-8 in Corridor 8 along seismic line TLB50_01_FAST_MIG_PSDEMUL

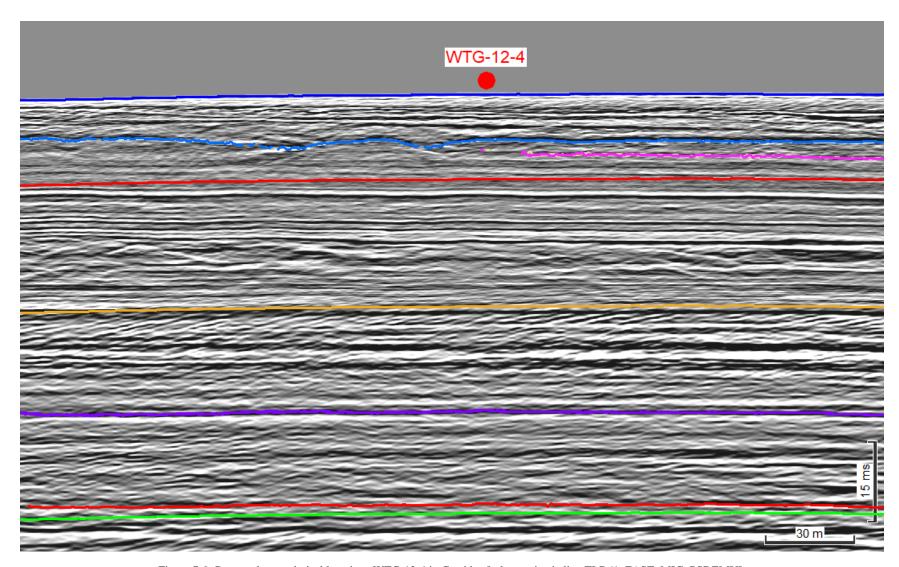


Figure 7-9: Proposed geotechnical locations WTG-12-4 in Corridor 8 along seismic line TLB61_FAST_MIG_PSDEMUL

APPENDIX 8 SUB-BOTTOM PROFILE IMAGES FOR CORRIDOR 10

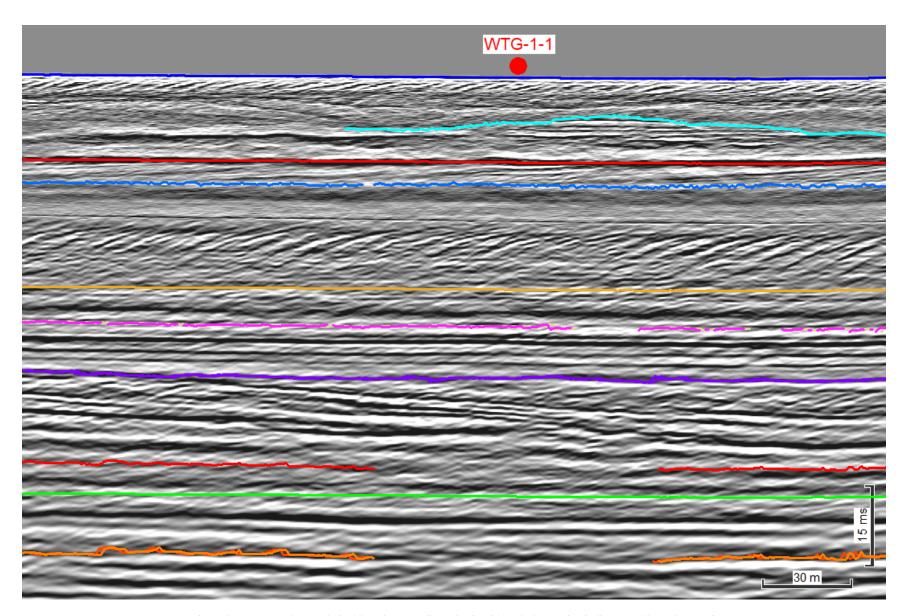


Figure 8-1: Proposed geotechnical locations WTG-1-1 in Corridor 10 along seismic line TLB02_FAST_MIG

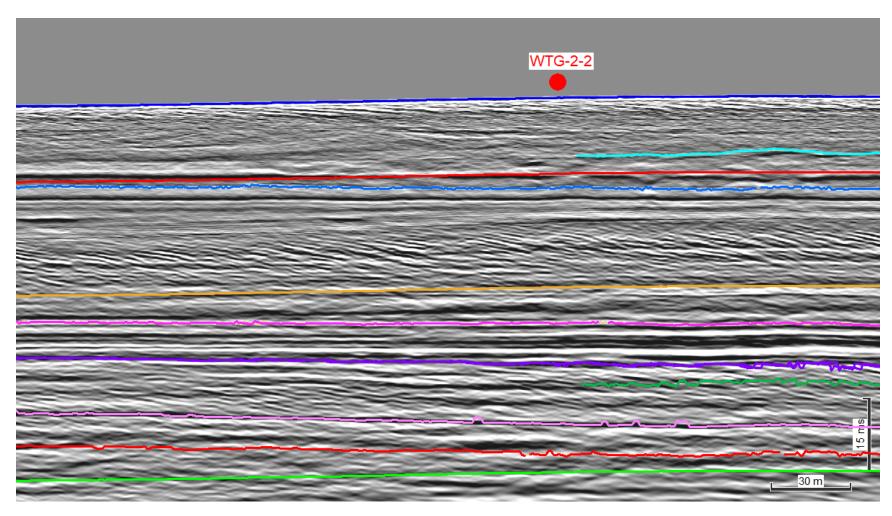


Figure 8-2: Proposed geotechnical locations WTG-2-2 in Corridor 10 along seismic line TLB07_A_FAST_MIG

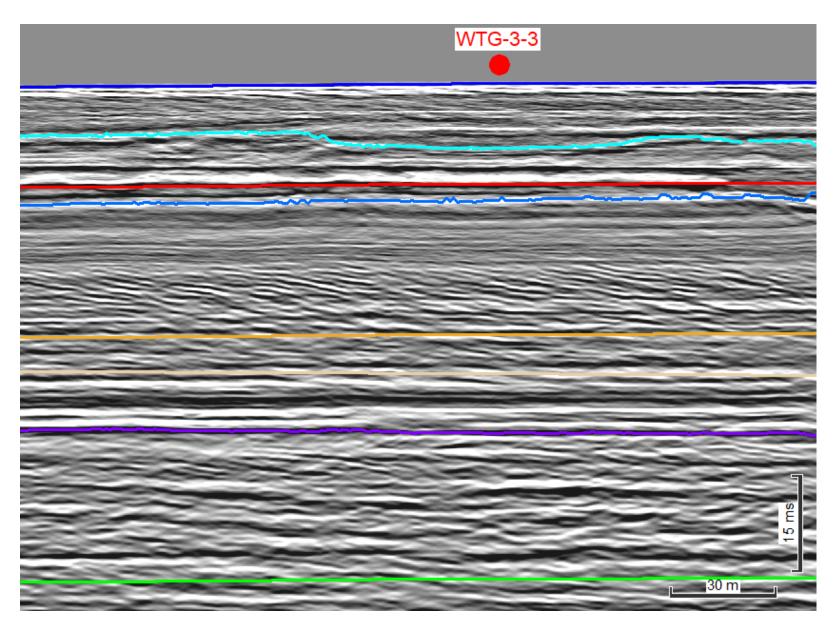


Figure 8-3: Proposed geotechnical locations WTG-3-3 in Corridor 10 along seismic line TLB14_FAST_MIG

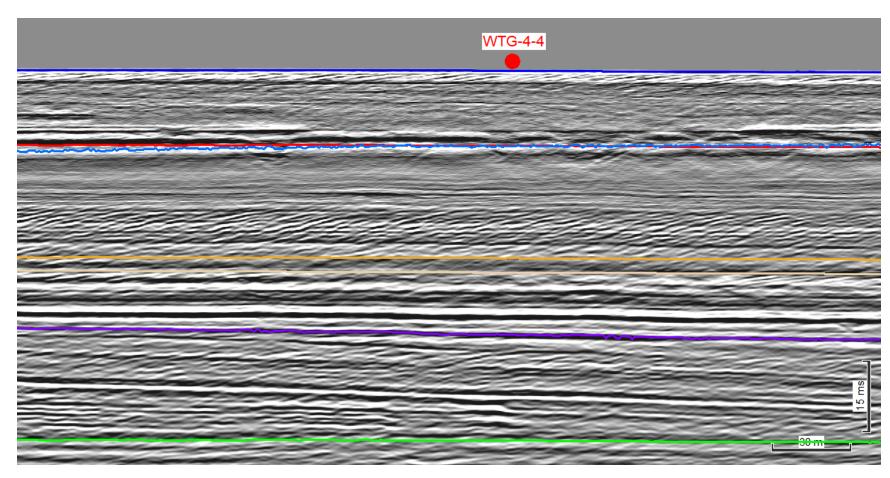


Figure 8-4: Proposed geotechnical locations WTG-4-4 in Corridor 10 along seismic line TLB20_FAST_MIG_PSDEMUL

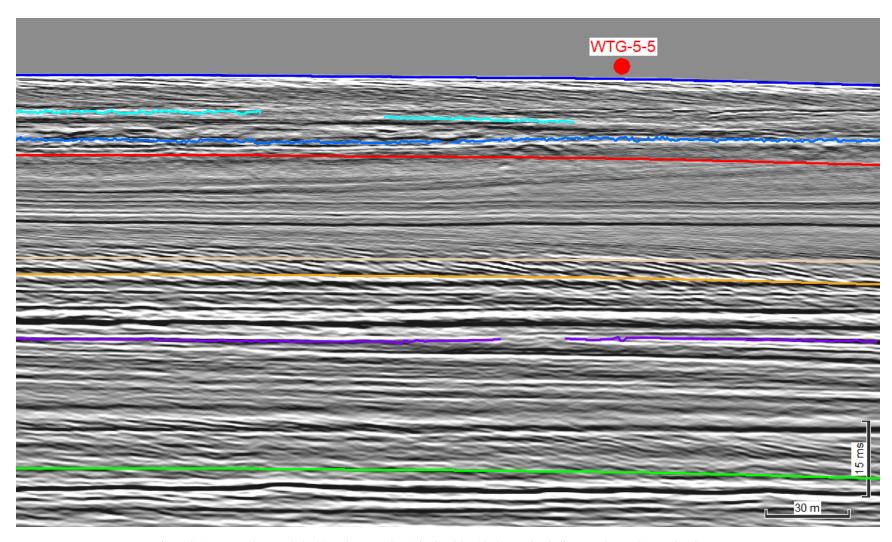


Figure 8-5: Proposed geotechnical locations WTG-5-5 in Corridor 10 along seismic line TLB26_FAST_MIG_PSDEMUL

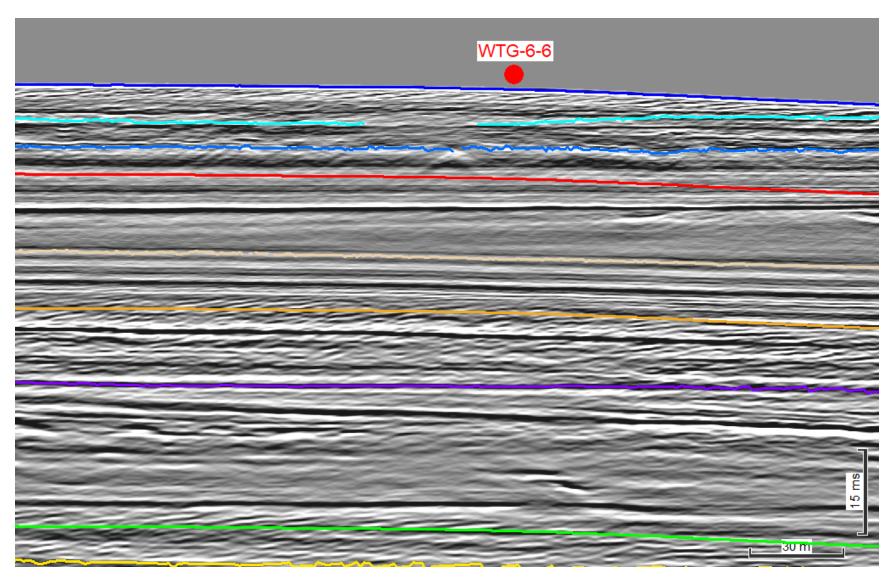


Figure 8-6: Proposed geotechnical locations WTG-6-6 in Corridor 10 along seismic line TLB32_FAST_MIG_PSDEMUL

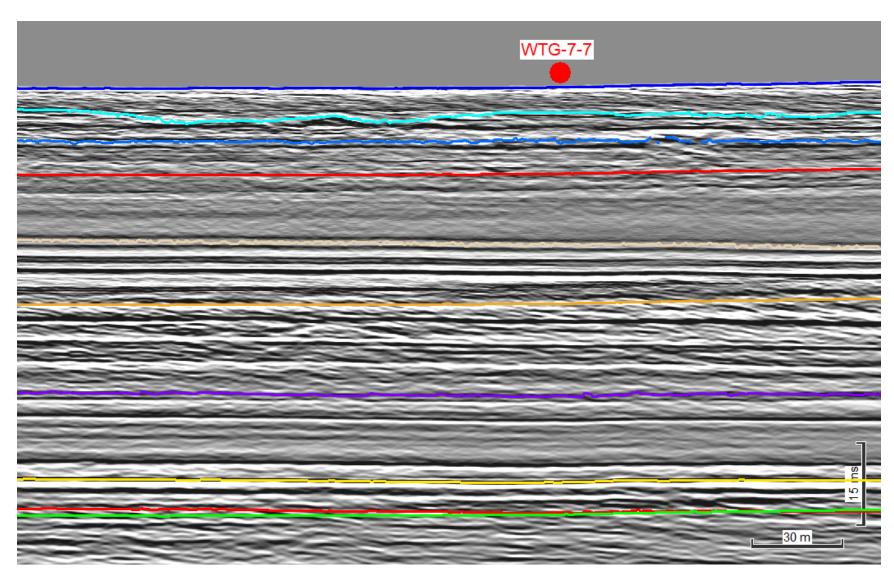


Figure 8-7: Proposed geotechnical locations WTG-7-7 in Corridor 10 along seismic line TLB38_01_FAST_MIG_PSDEMUL

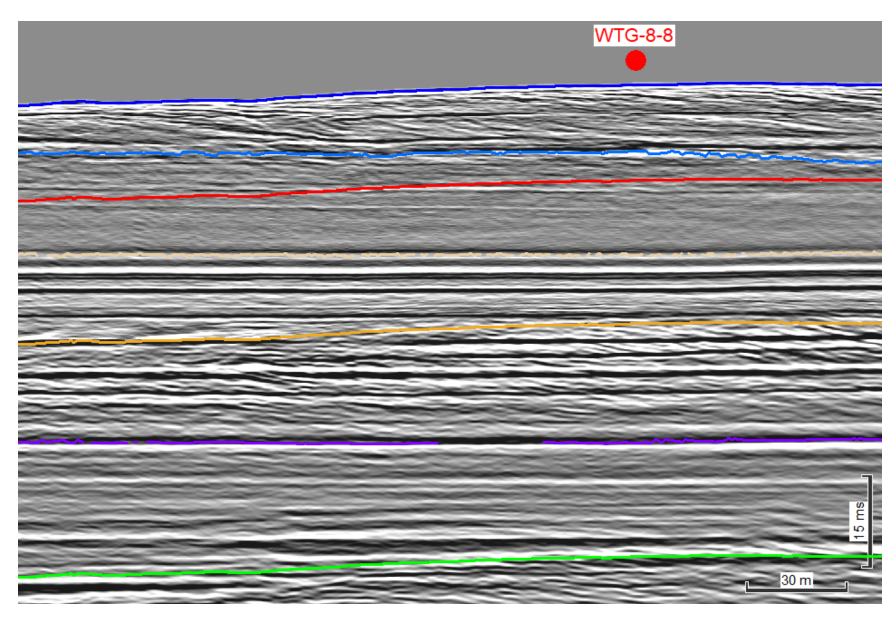


Figure 8-8: Proposed geotechnical locations WTG-8-8 in Corridor 10 along seismic line TLB44_01_FAST_MIG_PSDEMUL

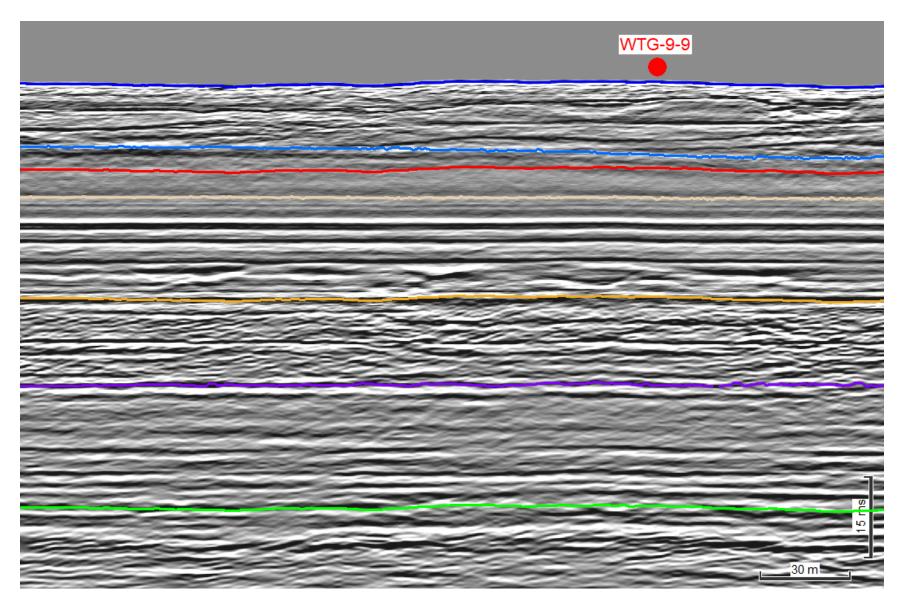


Figure 8-9: Proposed geotechnical locations WTG-9-9 in Corridor 10 along seismic line TLB50_01_FAST_MIG_PSDEMUL

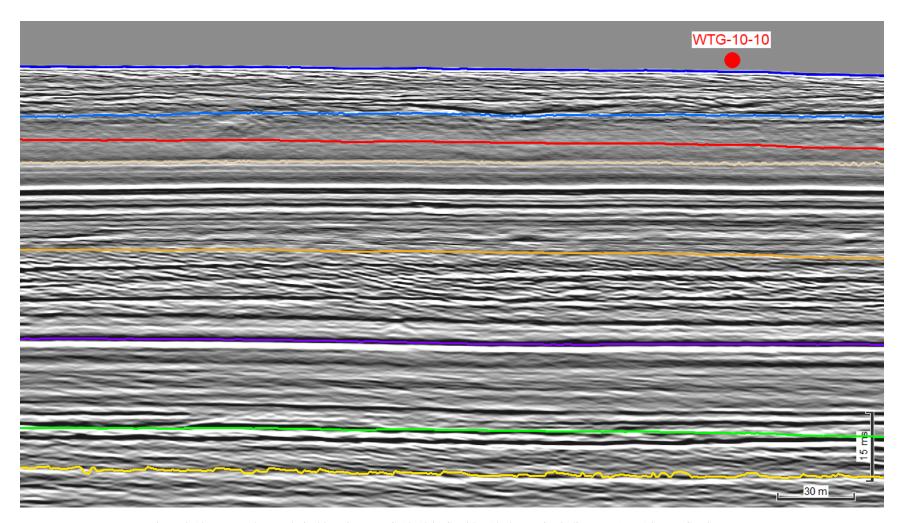


Figure 8-10: Proposed geotechnical locations WTG-10-10 in Corridor 10 along seismic line TLB56_FAST_MIG_PSDEMUL

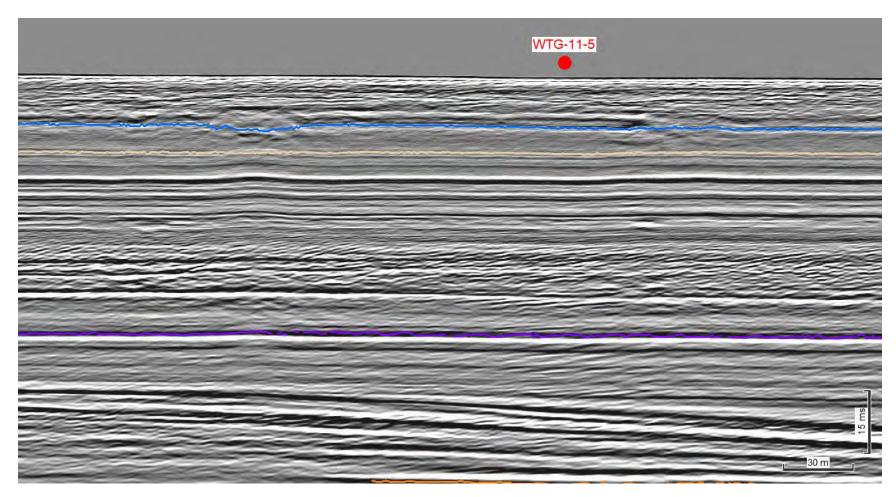


Figure 8-11: Proposed geotechnical locations WTG-11-5 in Corridor 10 along seismic line TLB62_FAST_MIG_PSDEMUL

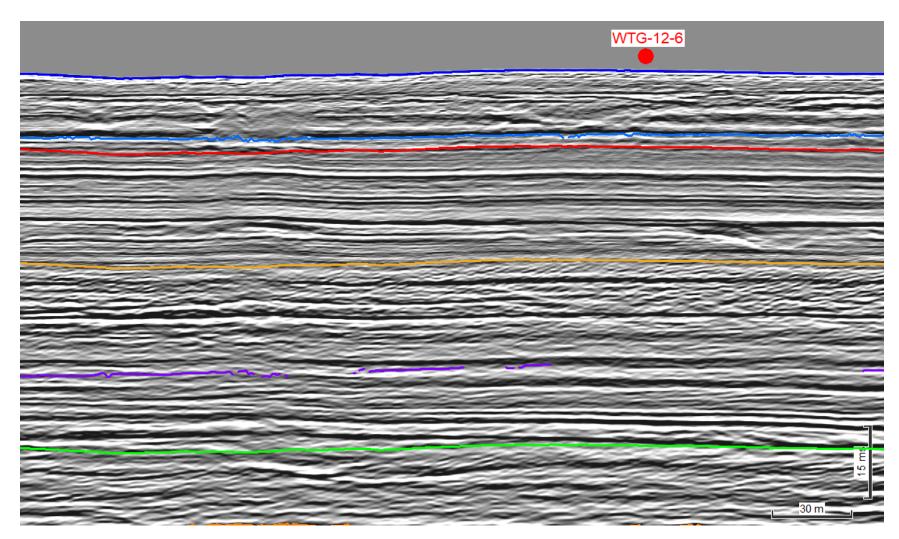


Figure 8-12: Proposed geotechnical locations WTG-12-6 in Corridor 10 along seismic line TLB68_FAST_MIG_PSDEMUL

APPENDIX 9 SUB-BOTTOM PROFILE IMAGES FOR CORRIDOR 14

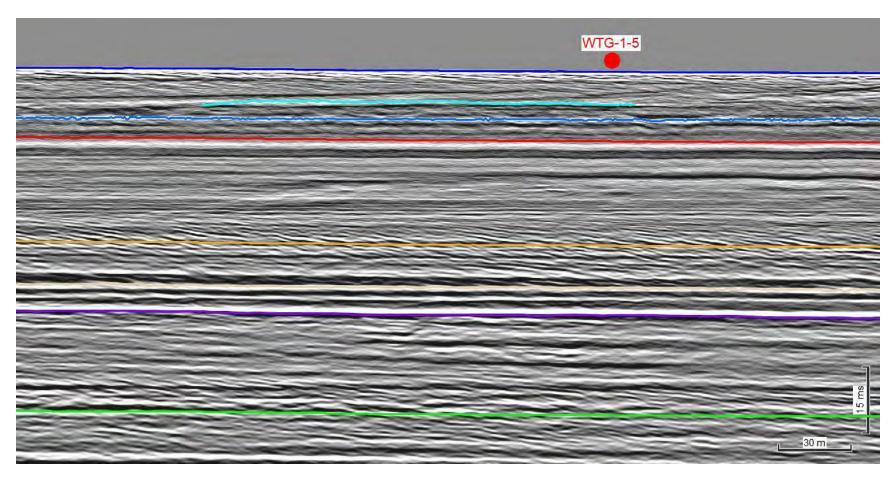


Figure 9-1: Proposed geotechnical locations WTG-1-5 in Corridor 14 along seismic line TLB14_FAST_MIG_PSDEMUL

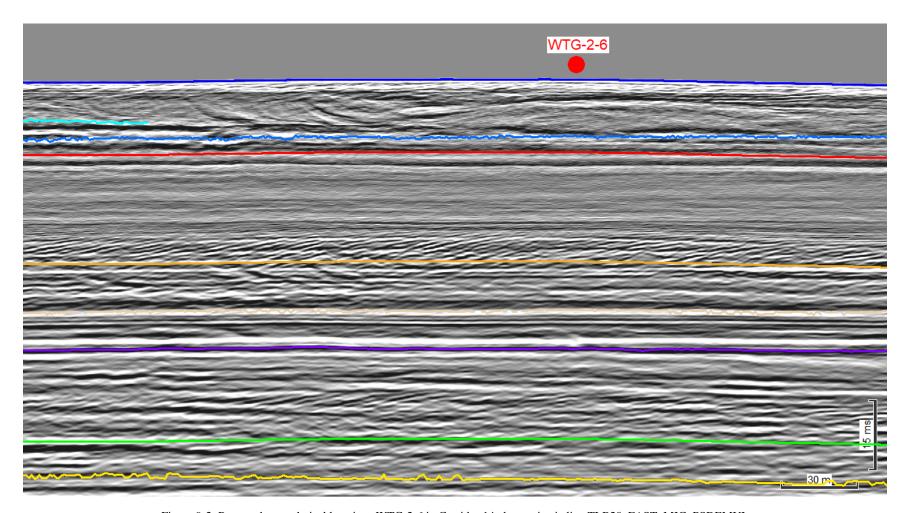


Figure 9-2: Proposed geotechnical locations WTG-2-6 in Corridor 14 along seismic line TLB20_FAST_MIG_PSDEMUL

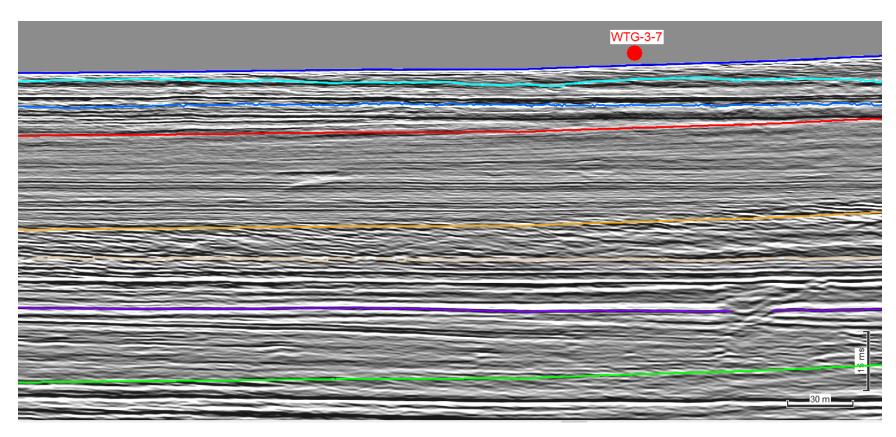


Figure 9-3: Proposed geotechnical locations WTG-3-7 in Corridor 14 along seismic line TLB26_FAST_MIG_PSDEMUL

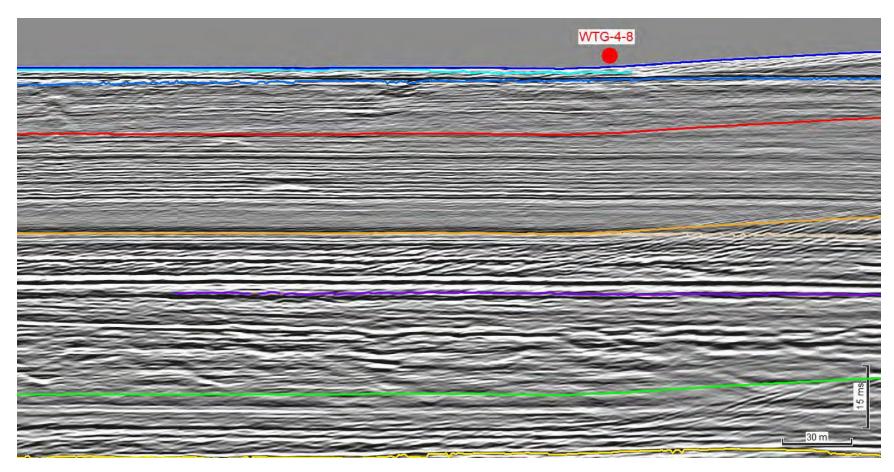


Figure 9-4: Proposed geotechnical locations WTG-4-8 in Corridor 14 along seismic line TLB32_FAST_MIG_PSDEMUL

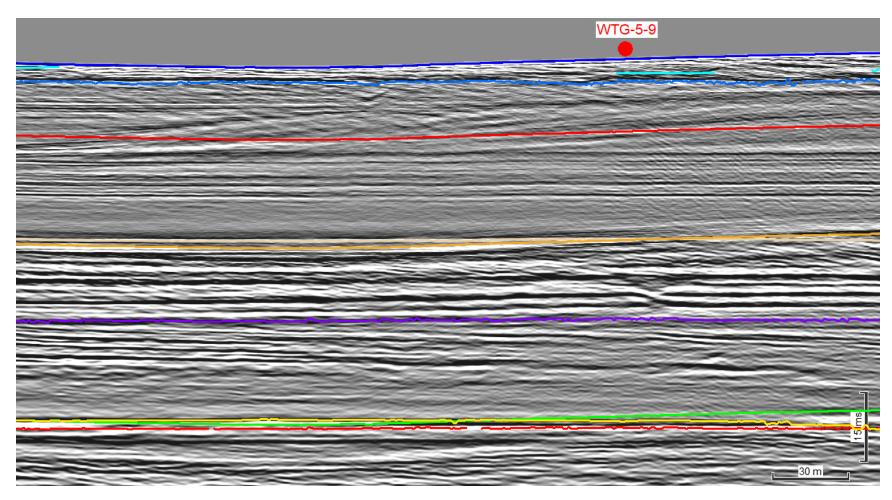


Figure 9-5: Proposed geotechnical locations WTG-5-9 in Corridor 14 along seismic line TLB38_FAST_MIG

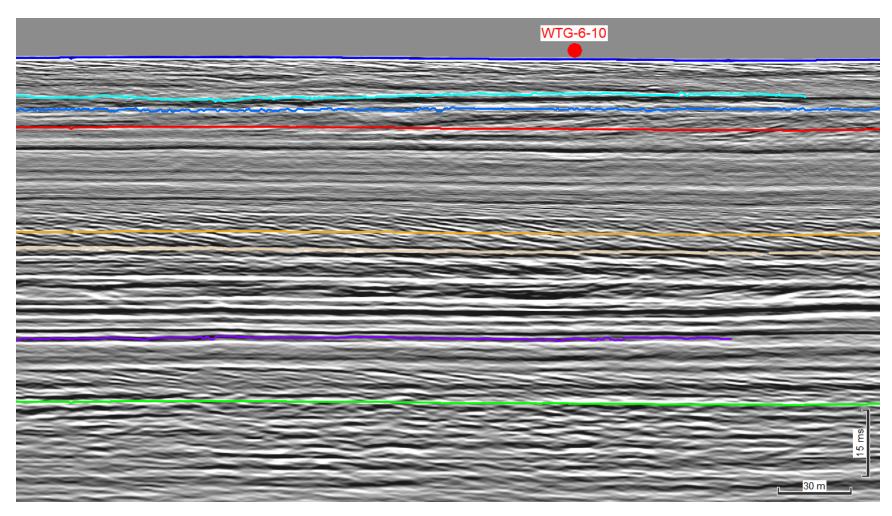


Figure 9-6: Proposed geotechnical locations WTG-6-10 in Corridor 14 along seismic line TLB44_01_FAST_MIG_PSDEMUL

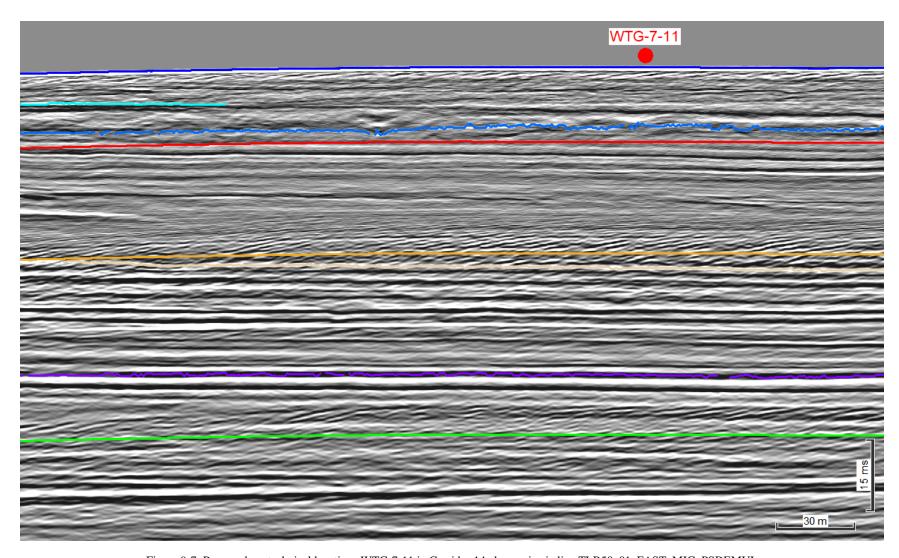


Figure 9-7: Proposed geotechnical locations WTG-7-11 in Corridor 14 along seismic line TLB50_01_FAST_MIG_PSDEMUL

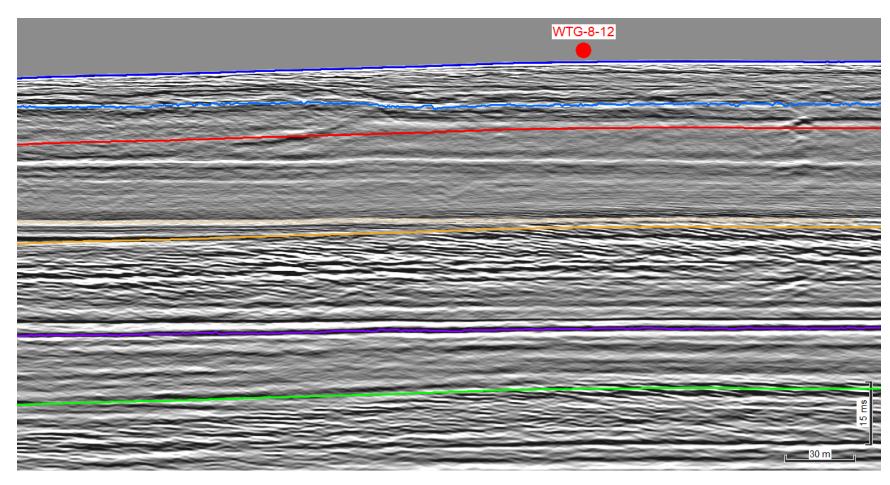


Figure 9-8: Proposed geotechnical locations WTG-8-12 in Corridor 14 along seismic line TLB56_FAST_MIG_PSDEMUL

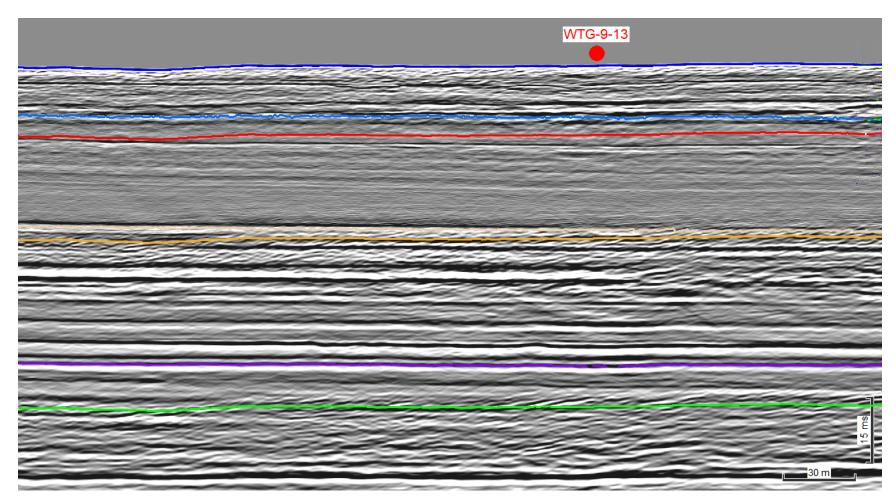


Figure 9-9: Proposed geotechnical locations WTG-9-13 in Corridor 14 along seismic line TLB62_FAST_MIG_PSDEMUL

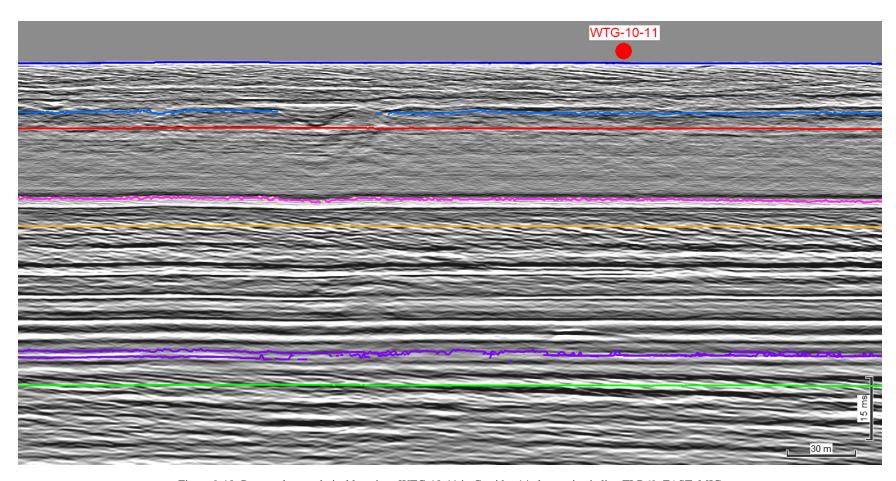


Figure 9-10: Proposed geotechnical locations WTG-10-11 in Corridor 14 along seismic line TLB69_FAST_MIG

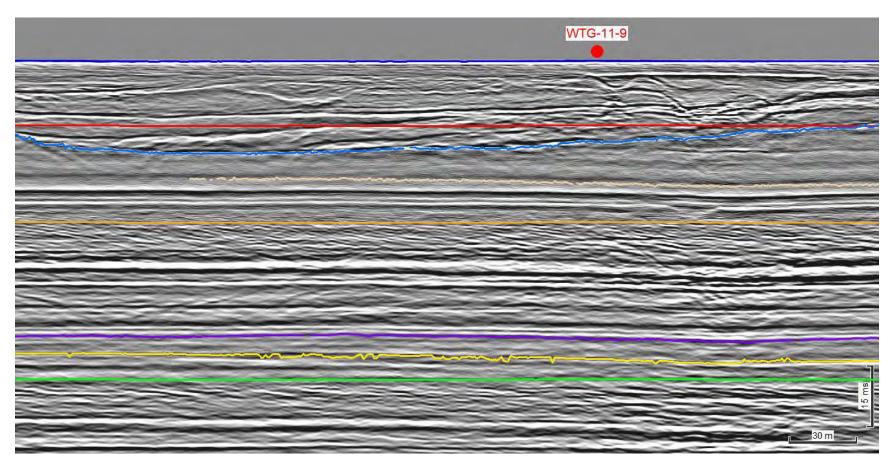


Figure 9-11: Proposed geotechnical locations WTG-11-9 in Corridor 14 along seismic line TLB674A_FAST_MIG_PSDEMUL

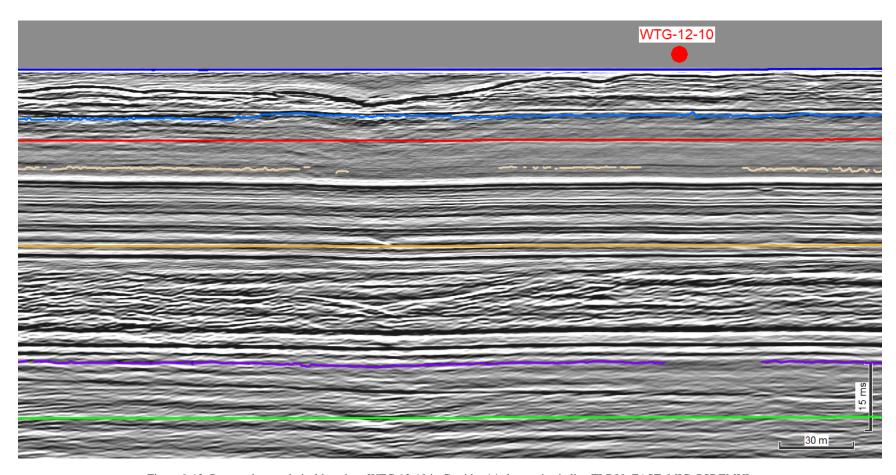


Figure 9-12: Proposed geotechnical locations WTG-12-10 in Corridor 14 along seismic line TLB80_FAST_MIG_PSDEMUL