

Appendix II-J1

Essential Fish Habitat (EFH) Technical Report

March 2024

Note: Atlantic Shores has updated the Project Design Envelope to include the following landfall sites: Monmouth Landfall Site, Asbury Landfall Site, Kingsley Landfall Site, Lemon Creek Landfall Site, Wolfe's Pond Landfall Site, and Fort Hamilton Landfall Site. The information included in this report demonstrates the completeness of Atlantic Shores' multi-year development efforts and should be considered representative for the Project. For additional information regarding the layout of the Project, please refer to COP Volume I Project Information, Sections 1.0 Introduction and 4.7 Landfall Sites, as well as Figure 1.1-2 Project Overview.

Essential Fish Habitat Technical Report

Atlantic Shores Offshore Wind North

Prepared for:



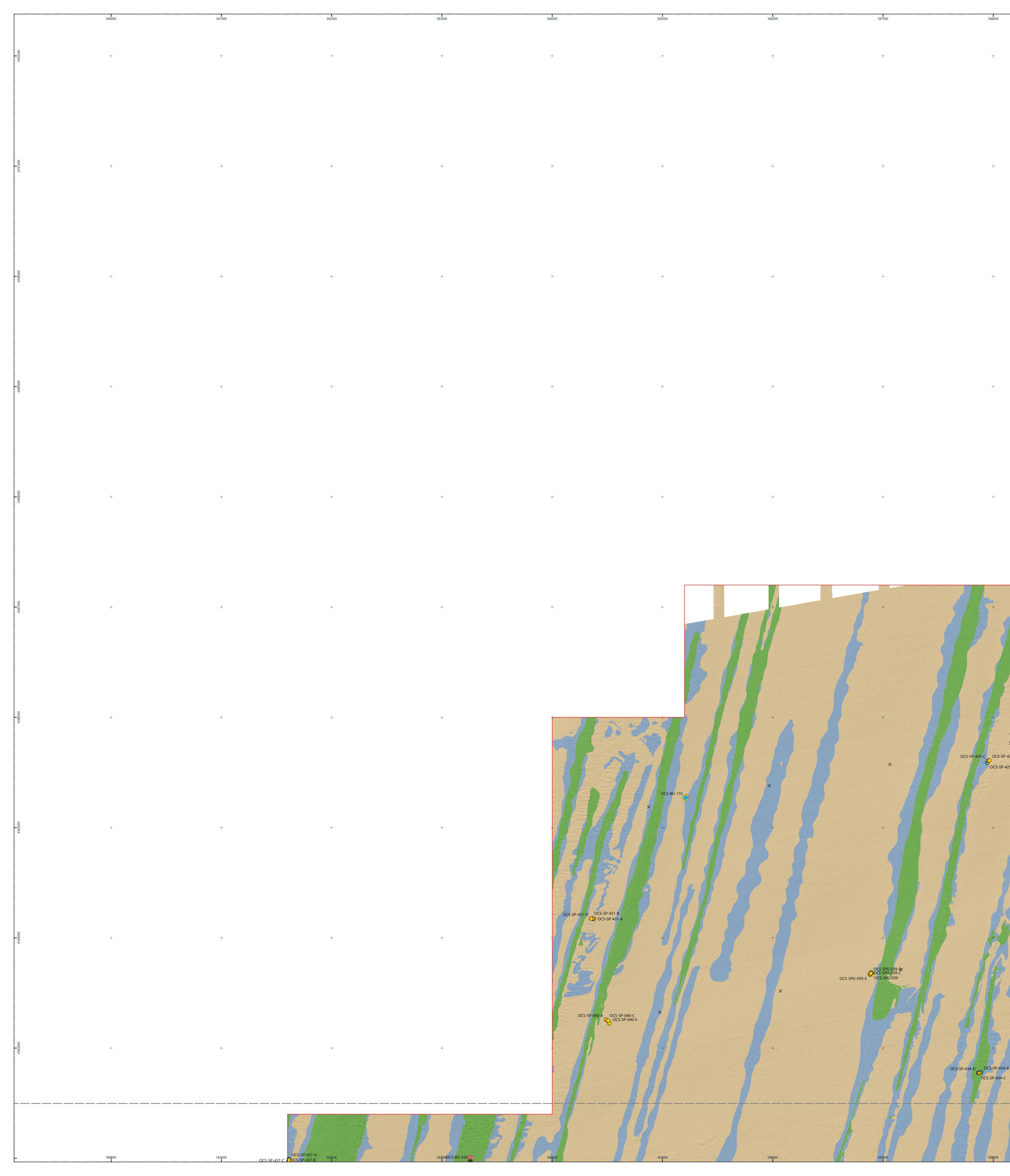
Atlantic Shores Offshore Wind, LLC 1 Dock 72 Way 7th Floor Brooklyn, NY 11205 www.atlanticshoreswind.com

Prepared by:

EDR Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. 217 Montgomery Street, Suite 1000 Syracuse, New York 13202 P: 315.471.0688 F: 315.471.1061 www.edrdpc.com

March 2024

Attachment 3 Benthic Habitat Maps – 1:10,000 Scale Lease Area



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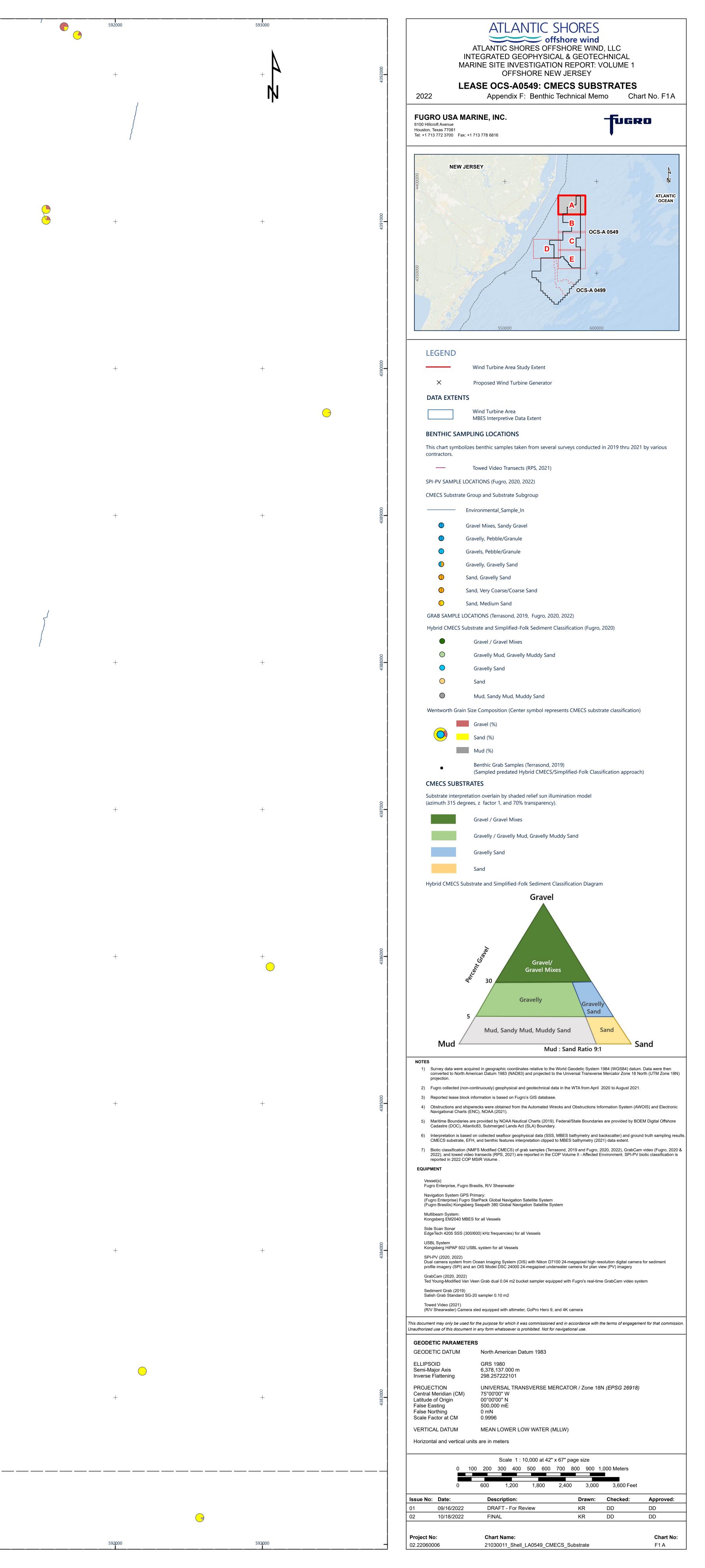
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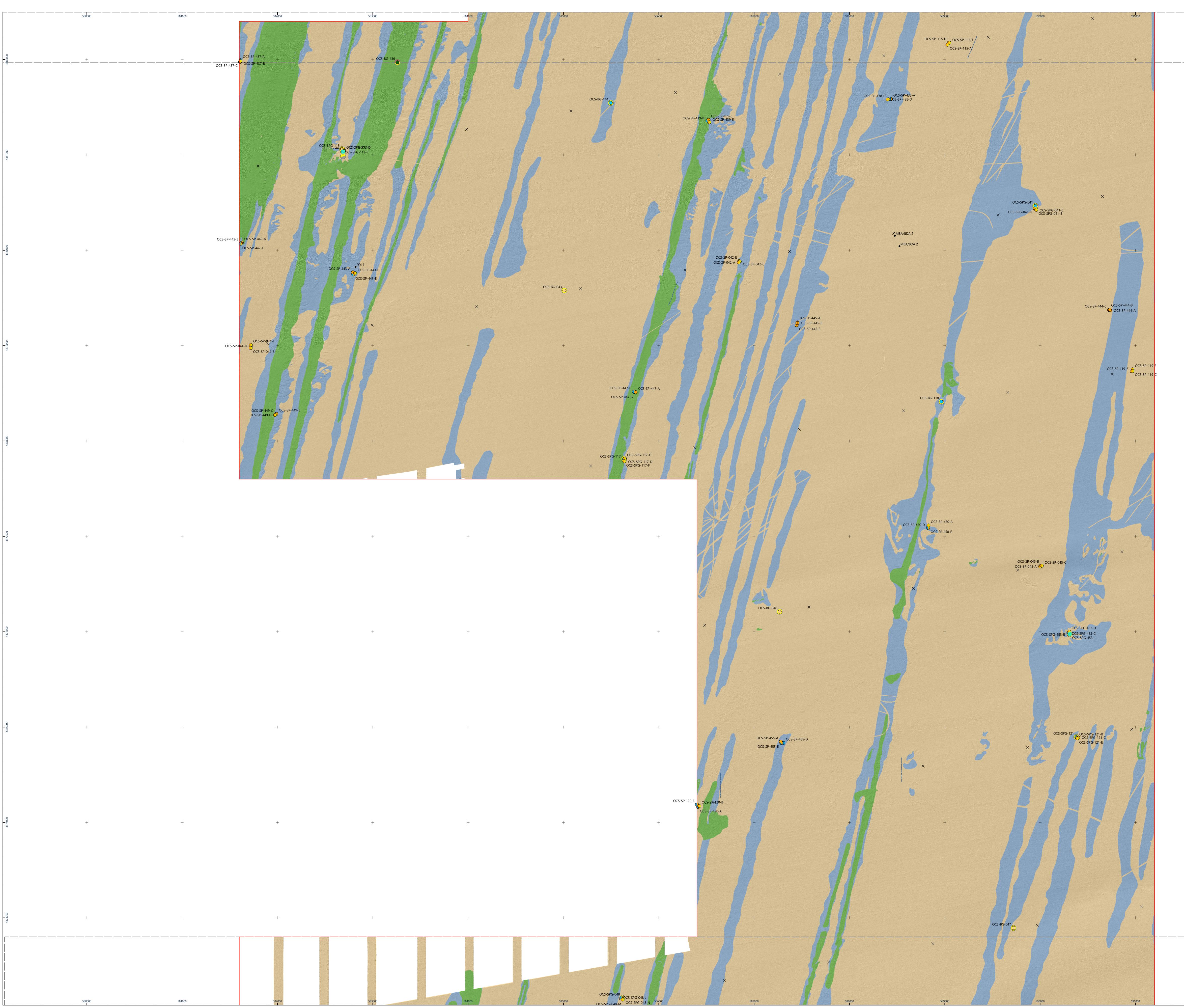
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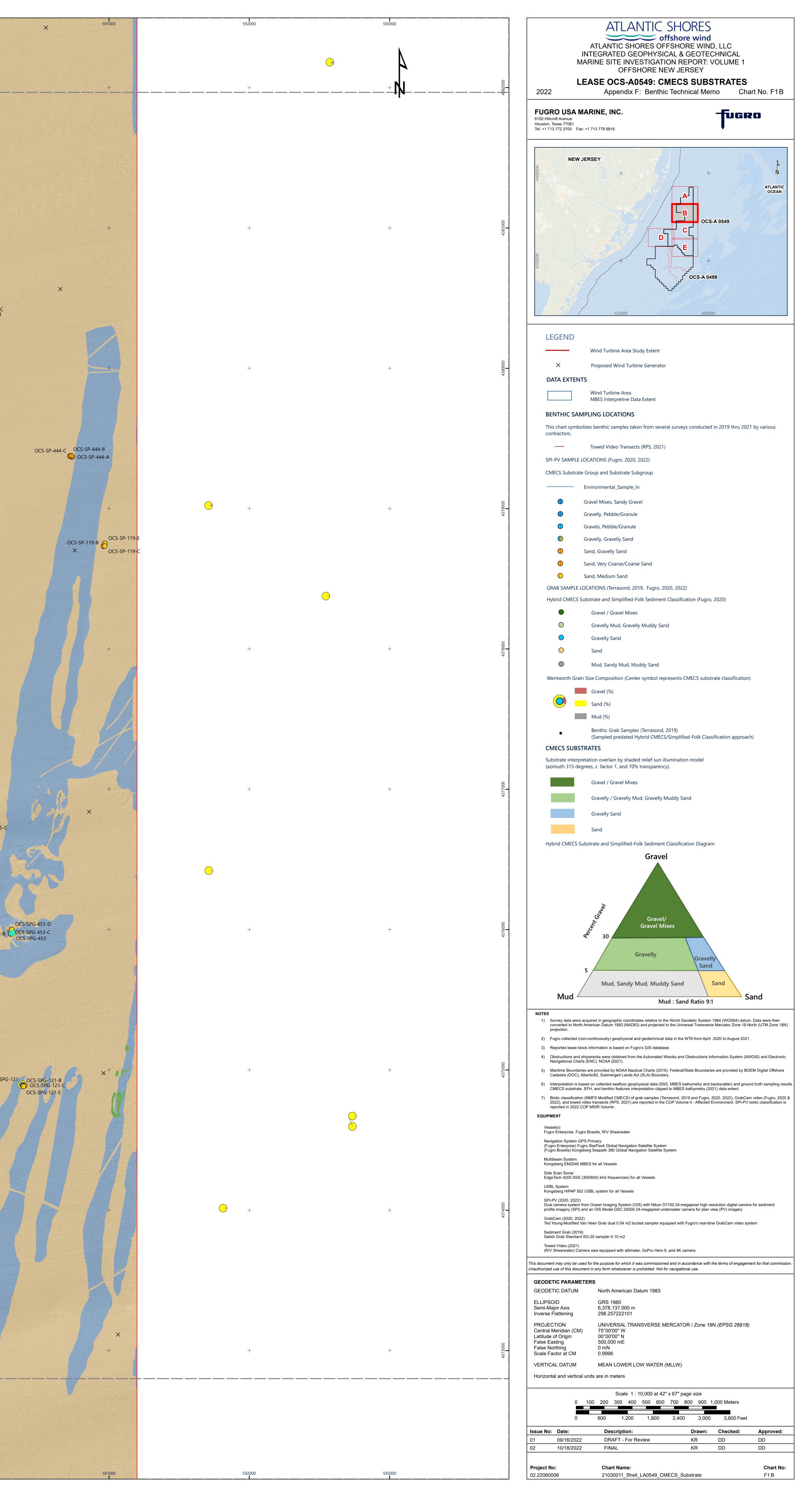
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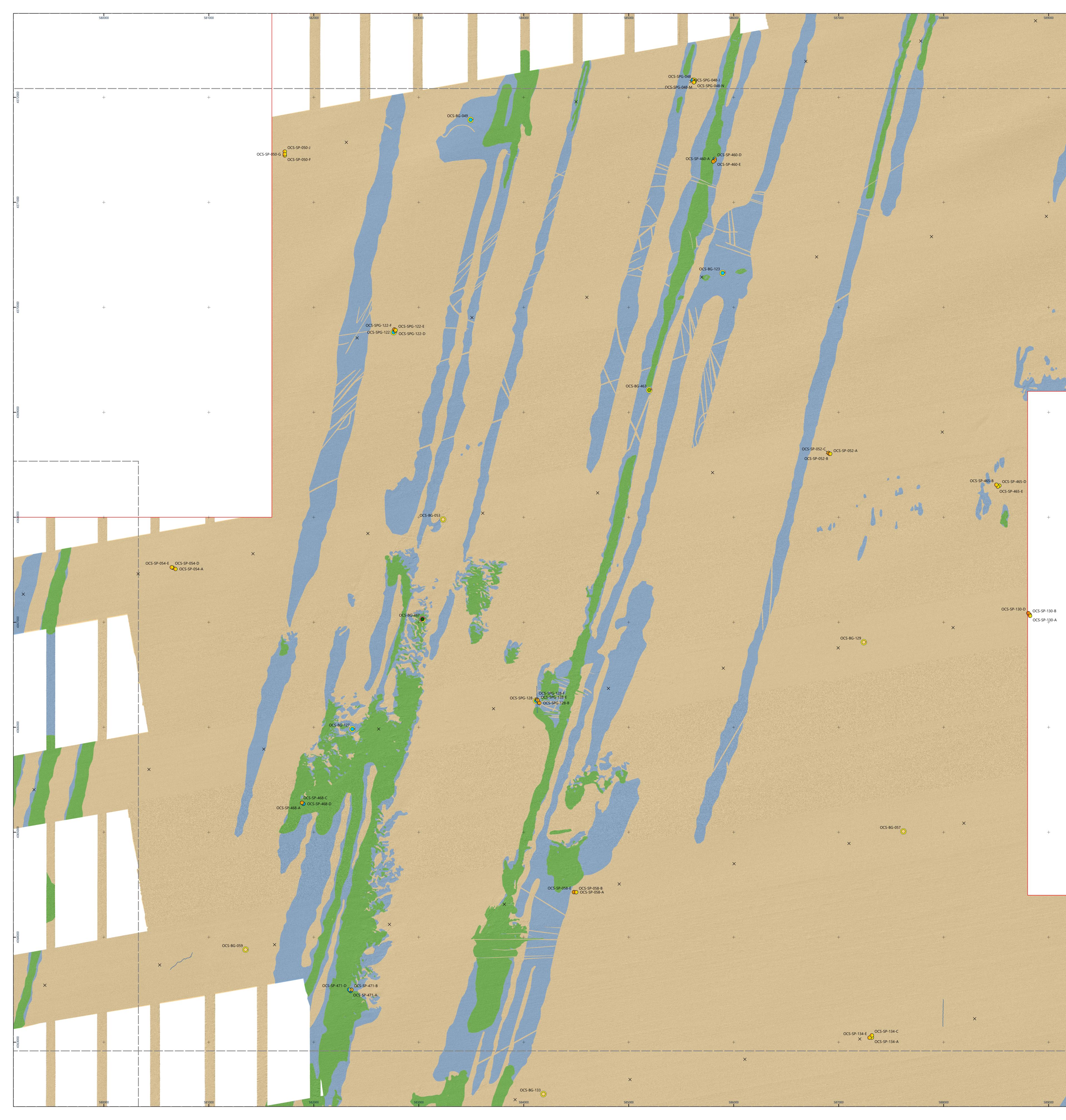
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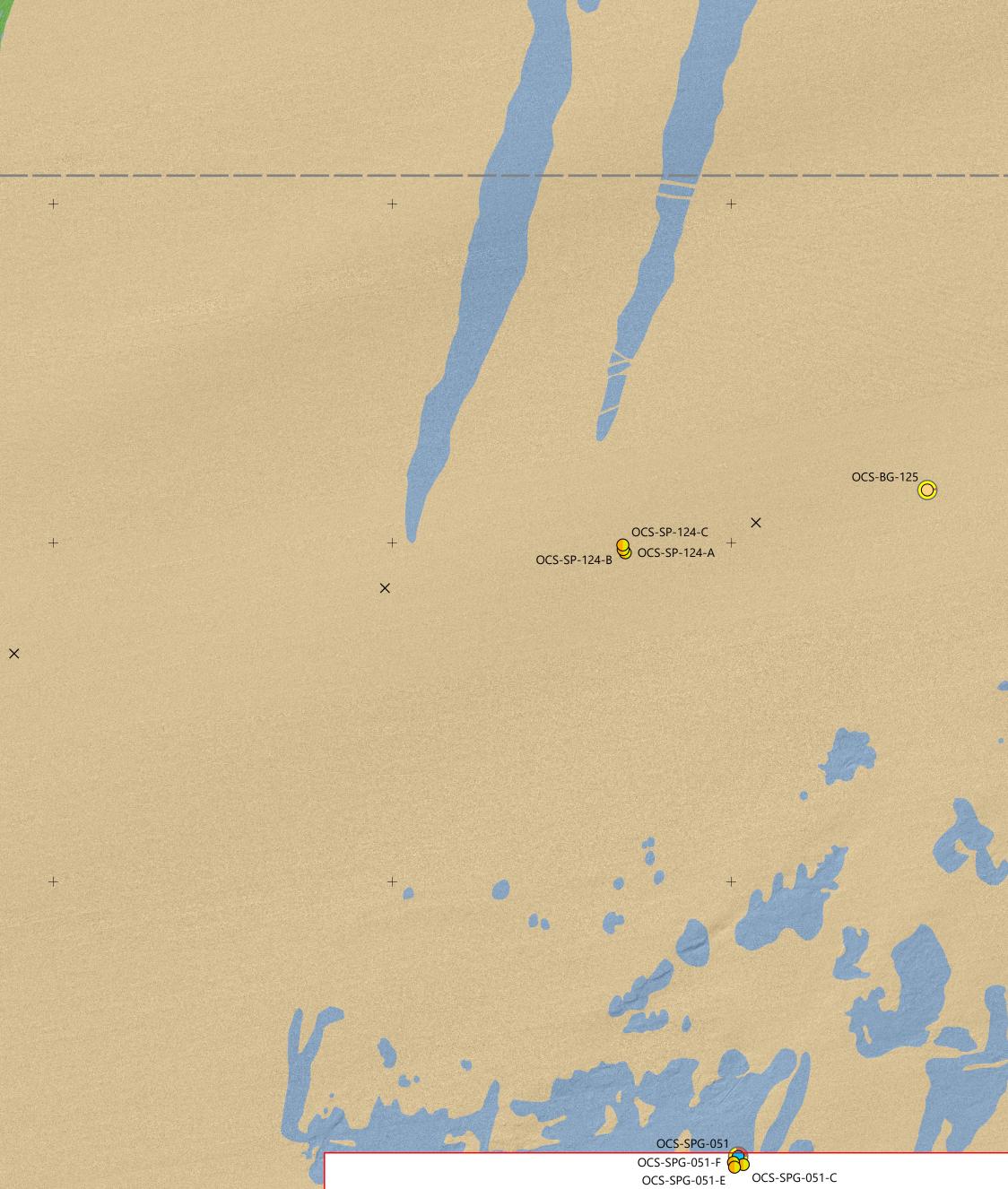
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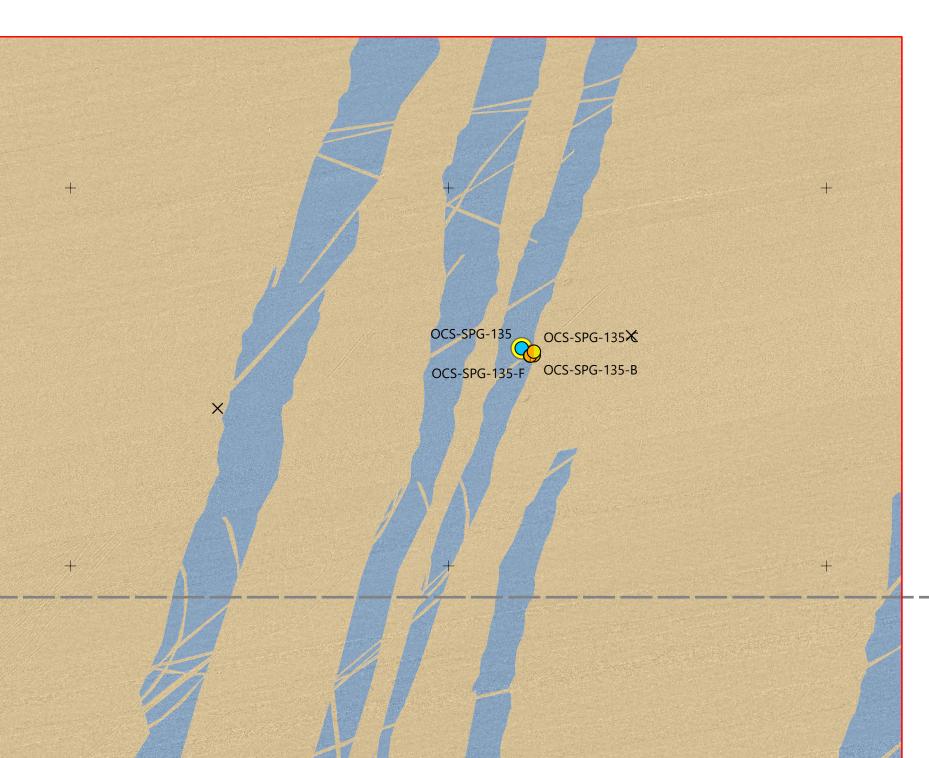
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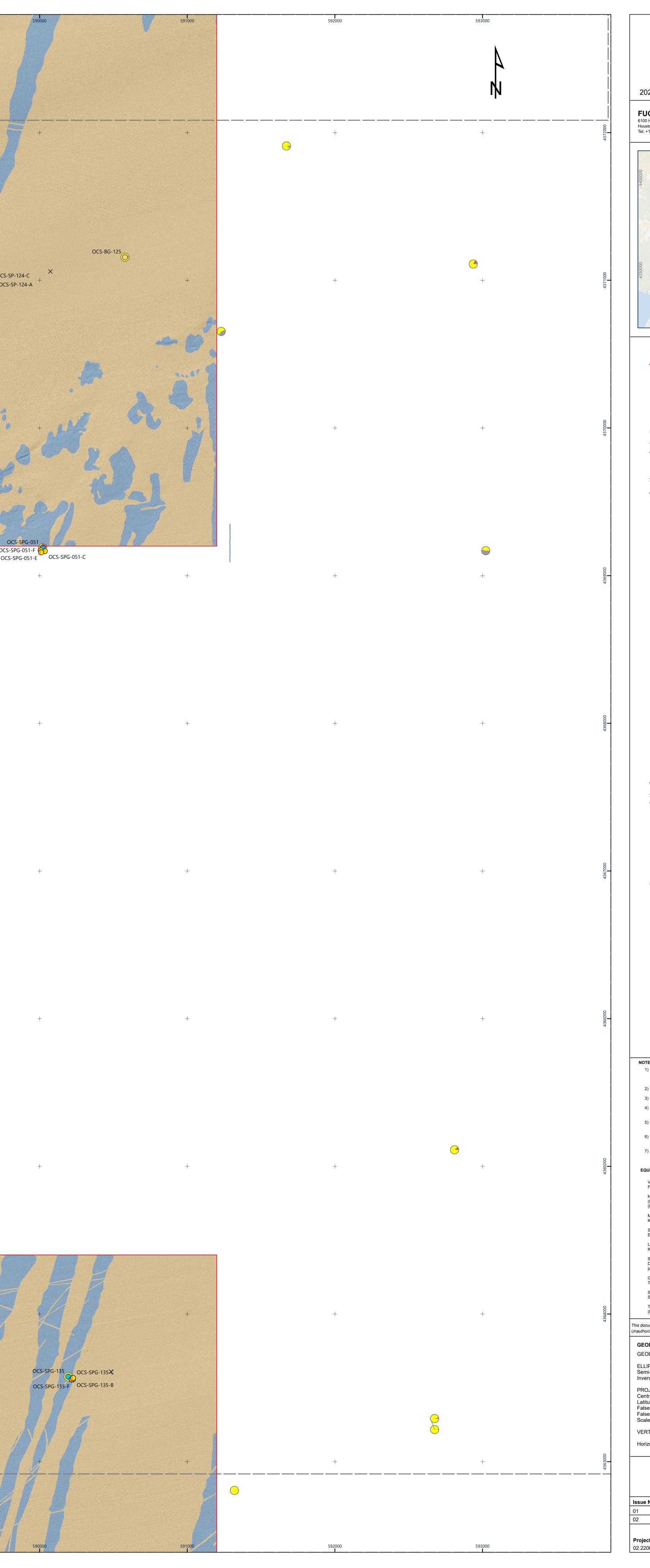
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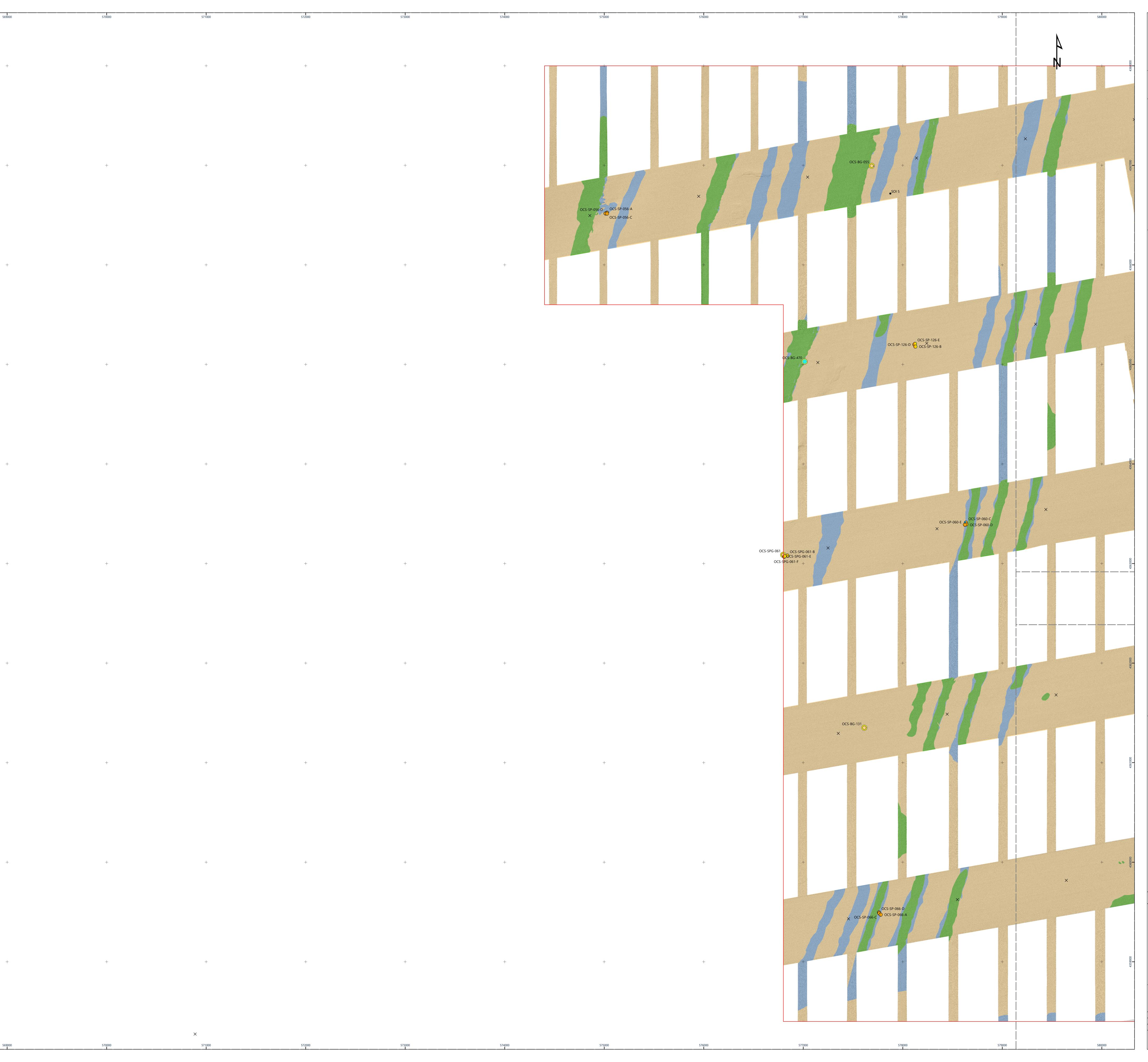
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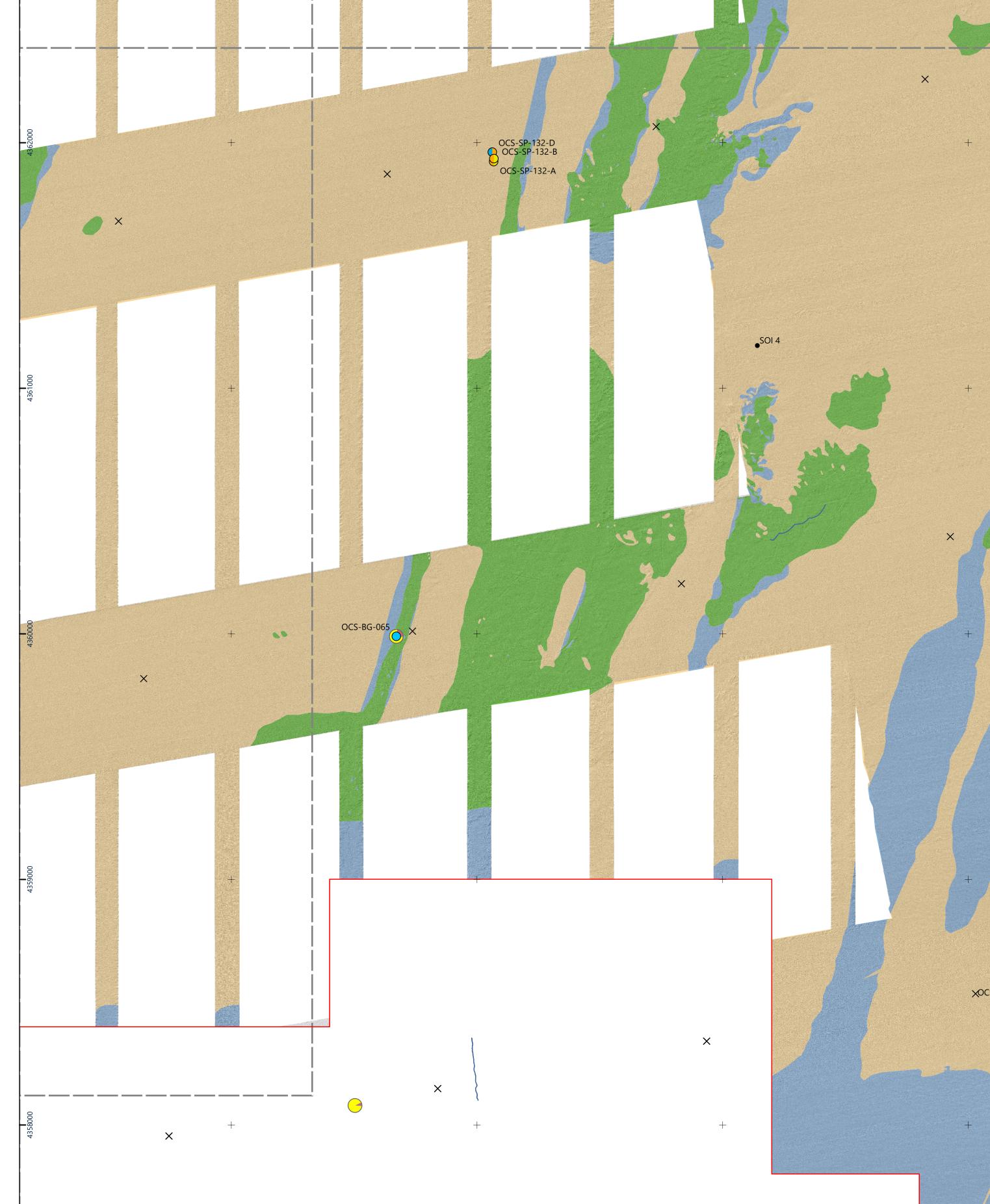
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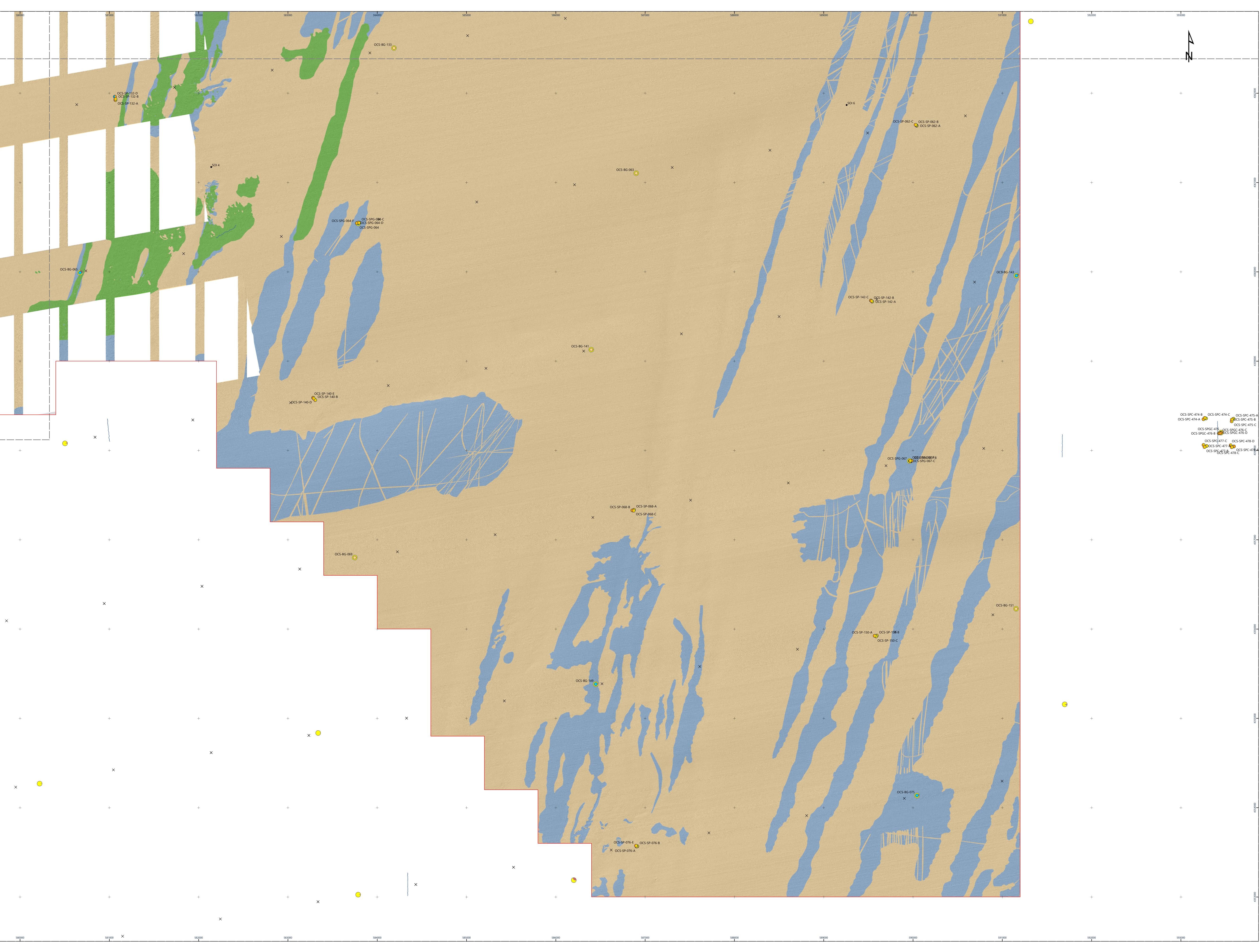
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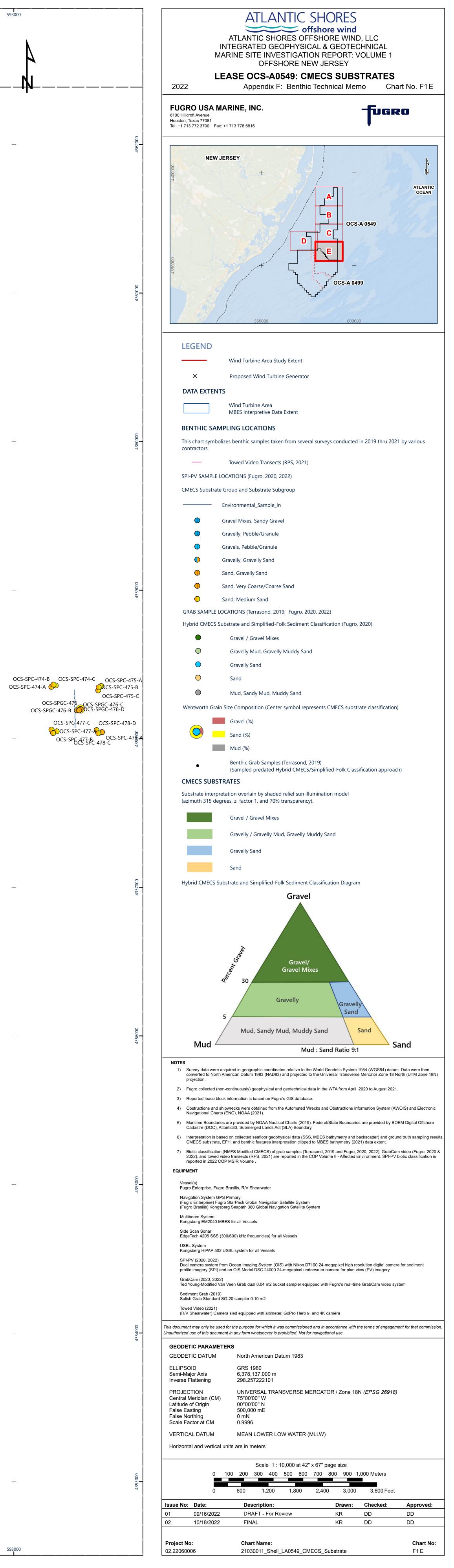
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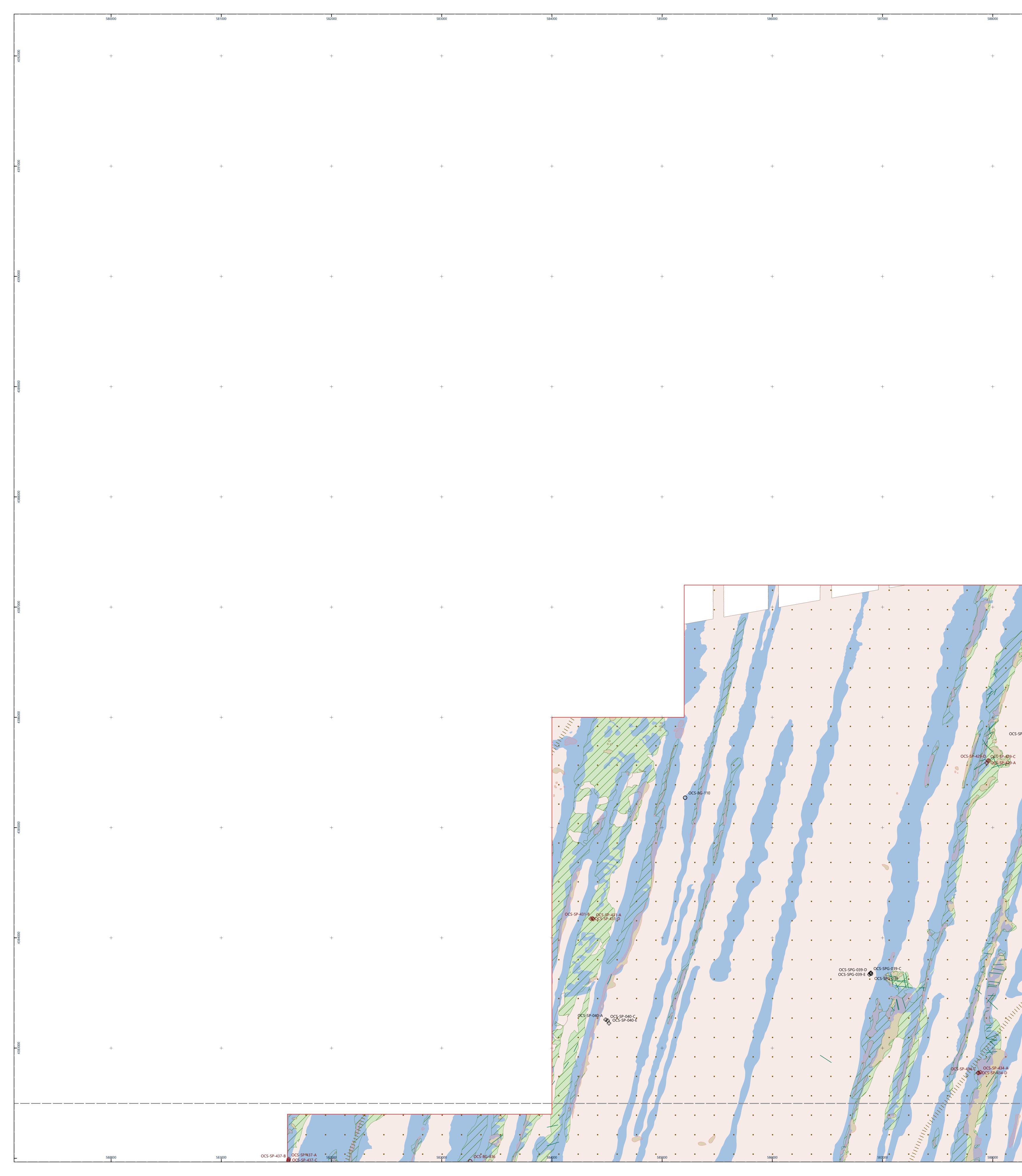
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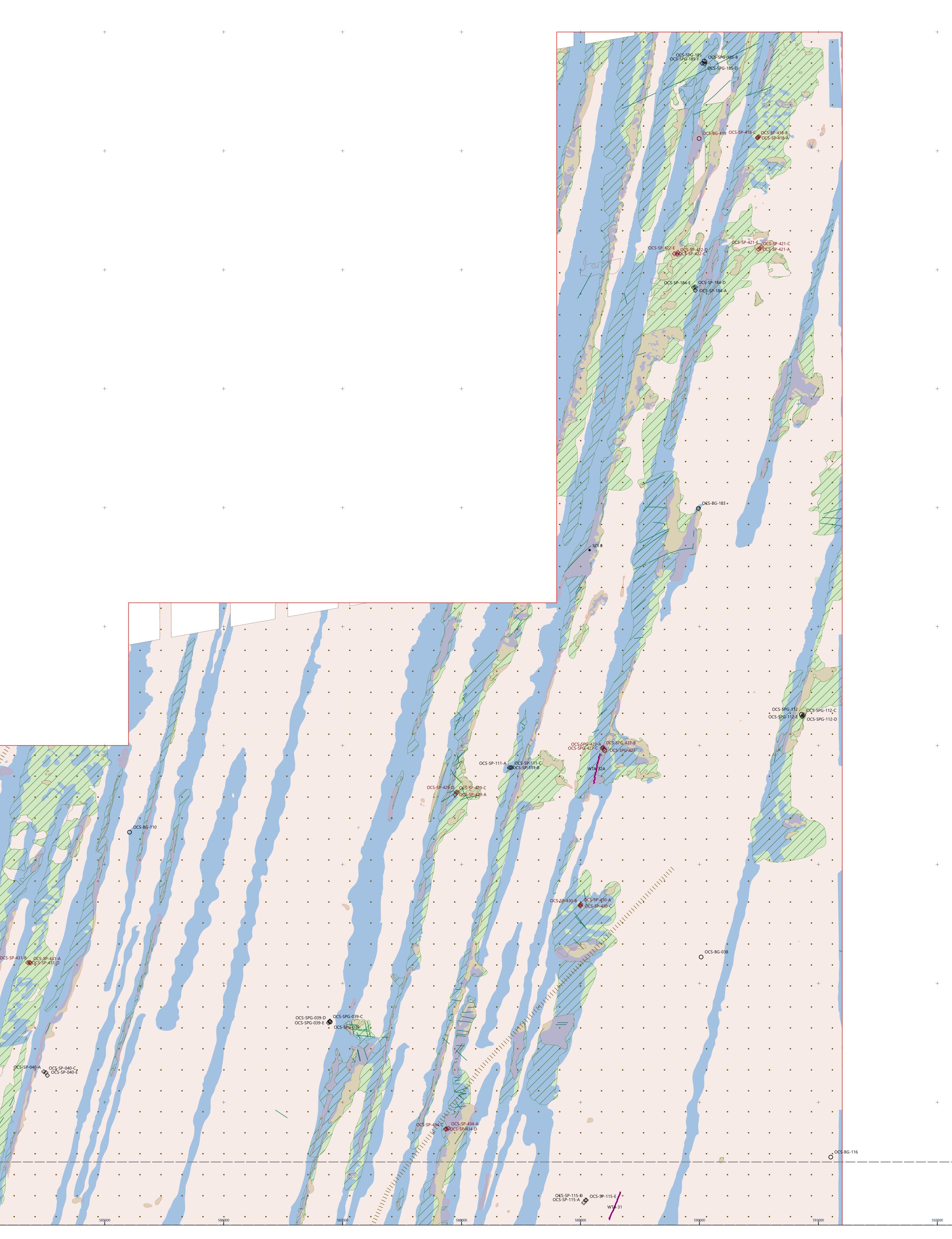
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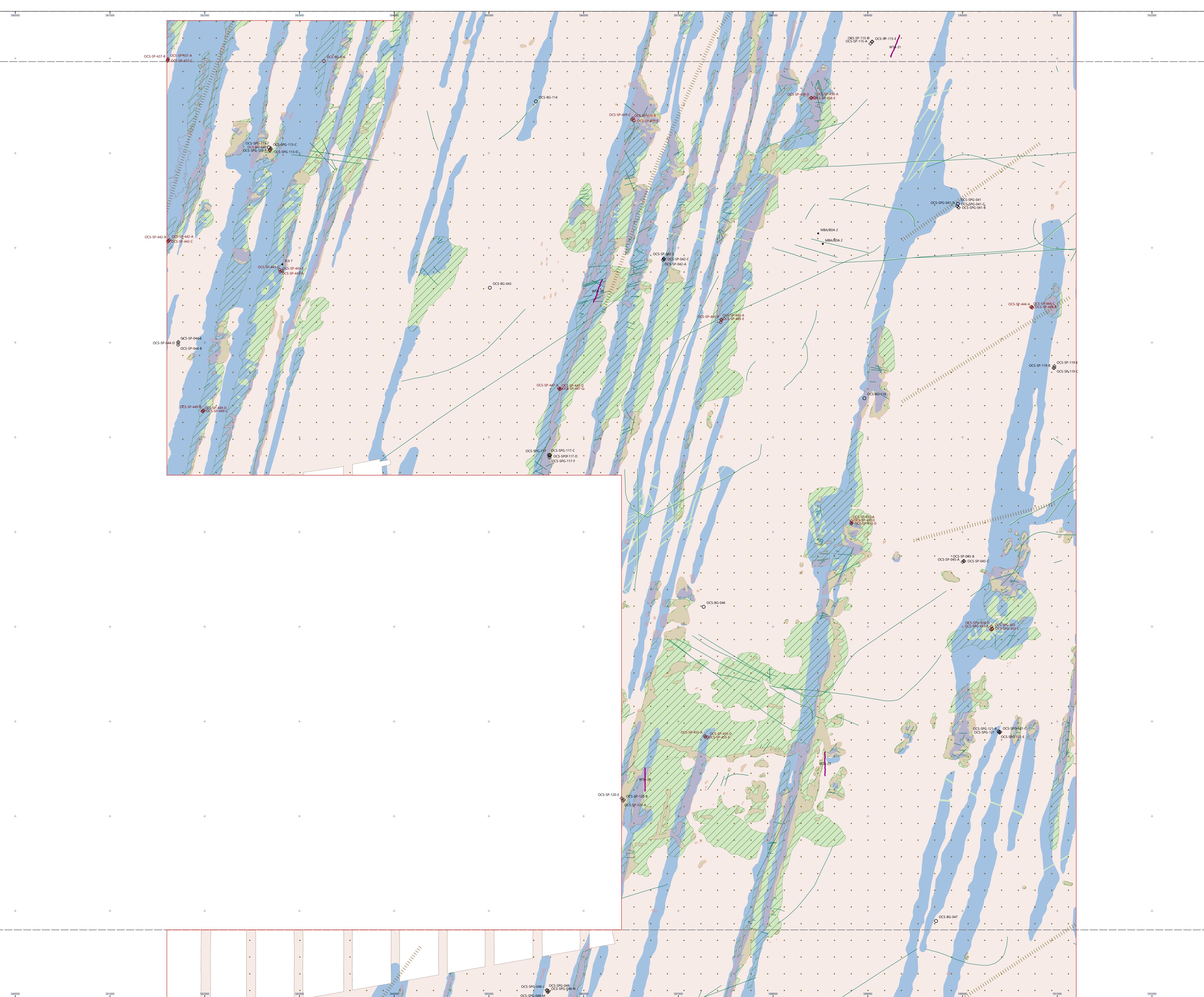
1 592000	593000	ATLANTIC SHORES
	Ν	ATLANTIC SHORES OFFSHORE WIND, LLC INTEGRATED GEOPHYSICAL & GEOTECHNICAL MARINE SITE INVESTIGATION REPORT: VOLUME 1
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		FUGRO USA MARINE, INC. 6100 Hillcroft Avenue Houston, Texas 77081 Tel: +1 713 772 3700 Fax: +1 713 778 6816
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+	+	Wind Turbine Area Study Extent
		DATA EXTENTS Wind Turbine Area
		MBES Interpretive Data Extent BENTHIC SAMPLING LOCATIONS
		This chart symbolizes benthic samples taken from several surveys conducted in 2019 thru 2022 by various contractors. Grab Sample (Fugro, 2022)
		O Grab Sample (Fugro, 2020)
+	+	• Grab Sample (TerraSond, 2019) • SPI-PV Sample (Fugro, 2022)
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		NMFS ESSENTIAL FISH HABITAT (EFH) Composite benthic features layers indicate that more than one
+	+	BENTHIC FEATURES BENTHIC FEATURES
		Seabed Scars
		Irregular Seafloor Areas Localized Relief Features
		Sand Waves Megaripples
		Ripples
+	+	ESSENTIAL FISH HABITAT CLASSIFICATION
		Complex
		Heterogeneous Complex Soft
+	+	4386000
		 NOTES The coordinate grid is in NAD1983 UTM Zone 18N, meters. Fugro collected (non-continuously) geophysical and geotechnical data in the WTA from April 2020 to August 2021. Reported lease block information is based on Fugro's GIS database.
		 Obstructions and shipwrecks were obtained from the Automated Wrecks and Obstructions Information System (AWOIS) and Electronic Navigational Charts (ENC), NOAA (2021). Maritime Boundaries are provided by NOAA Nautical Charts (2019). Federal/State Boundaries are provided by BOEM Digital Offshore Cadastre (DOC), Atlantic83, Submerged Lands Act (SLA) Boundary.
		 6) EFH habitat delineations and characterization of benthic features charted here are in reference to NMFS' letter to BOEM dated March 29, 2021 regarding "Updated Recommendations for Mapping Fish Habitat". 7) Mobile sediment areas are mapped within the Cable Burial Risk Assessment (CBRA), Wind Turbine Area, (Fugro, 2021n). 8) No large grained complex habitats were delineated within the survey area.
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		 (i) Interpreted datasets due morphological features. 12) Seabed scars caused by fishing activities is seasonal and annually changing, and may not be present in all interpreted datasets due to time of year that the data were collected.
		EQUIPMENT Vessel(s) Fugro Enterprise, Fugro Brasilis, R/V Shearwater Navigation System GPS Primary:
		Navigation System GPS Primary: (Fugro Enterprise) Fugro StarPack Global Navigation Satellite System (Fugro Brasilis) Kongsberg Seapath 380 Global Navigation Satellite System Multibeam System: Kongsberg EM2040 MBES for all Vessels Side Scan Sonar
		EdgeTech 4205 SSS (300/600) kHz frequencies) for all Vessels USBL System Kongsberg HiPAP 502 USBL system for all Vessels SPI-PV (Fugro, 2020, 2022)
+	+	Dual camera system from Ócean Imaging System (OIS) with Nikon D7100 24-megapixel high resolution digital camera for sediment profile imagery (SPI) and an OIS Model DSC 24000 24-megapixel underwater camera for plan view (PV) imagery GrabCam (Fugro, 2020, 2022) Ted Young-Modified Van Veen Grab dual 0.04 m2 bucket sampler equipped with Fugro's real-time GrabCam video system Sediment Grab (2019) Salish Grab Standard SG-20 sampler 0.10 m2
		Towed Video (2021) (R/V Shearwater) Camera sled equipped with altimeter, GoPro Hero 9, and 4K camera
		This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorized use of this document in any form whatsoever is prohibited. Not for navigational use. GEODETIC PARAMETERS
		GEODETIC DATUM North American Datum 1983 ELLIPSOID GRS 1980 Semi-Major Axis 6,378,137.000 m Inverse Flattening 298.257222101
+	+	PROJECTION UNIVERSAL TRANSVERSE MERCATOR / Zone 18N (EPSG 26918) Central Meridian (CM) 75°00'00" W Latitude of Origin 00°00'00" N False Easting 500,000 mE False Northing 0 mN
		False Northing 0 mN Scale Factor at CM 0.9996 VERTICAL DATUM MEAN LOWER LOW WATER (MLLW) Horizontal and vertical units are in meters
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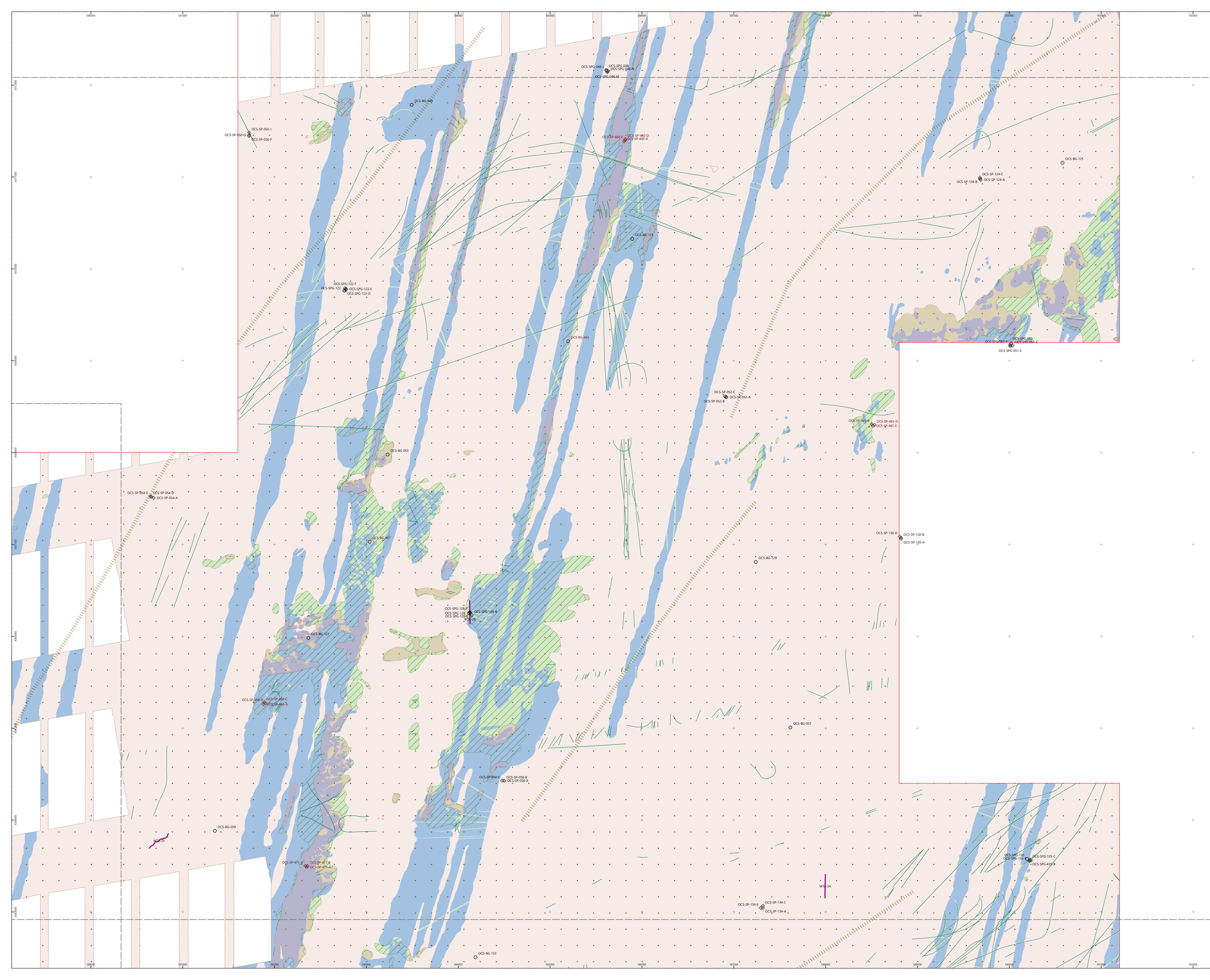
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+ N	4382000	OFFSHORE NEW JERSEY LEASE OCS-A0549: BENTHIC HABITAT 2022 Appendix F: Benthic Technical Memo Chart No. F2B
	4	FUGRO USA MARINE, INC. 6100 Hillcroft Avenue Houston, Texas 77081 Tel: +1 713 772 3700 Fax: +1 713 778 6816
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		BENTHIC SAMPLING LOCATIONS This chart symbolizes benthic samples taken from several surveys conducted in 2019 thru 2022 by various contractors. O Grab Sample (Fugro, 2022) O Grab Sample (Fugro, 2020)
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	43	ESSENTIAL FISH HABITAT CLASSIFICATION Complex Heterogeneous Complex Soft
+	4376000	NOTES 1) The coordinate grid is in NAD1983 UTM Zone 18N, meters. 2) Fugro collected (non-continuously) geophysical and geotechnical data in the WTA from April 2020 to August 2021. 3) Reported lease block information is based on Fugro's GIS database. 4) Obstructions and shipwrecks were obtained from the Automated Wrecks and Obstructions Information System (AWOIS) and Electronic Navigational Charts (ENC), NOAA (2021). 5) Maritime Boundaries are provided by NOAA Nautical Charts (2019). Federal/State Boundaries are provided by BOEM Digital Offshore Cadastre (DOC), Atlantic83, Submerged Lands Act (SLA) Boundary. 6) EFH habitat delineations and characterization of benthic features charted here are in reference to NMFS' letter to BOEM dated March 29, 2021 regarding "Updated Recommendations for Mapping Fish Habitat". 7) Mobile sediment areas are mapped within the Cable Burial Risk Assessment (CBRA), Wind Turbine Area, (Fugro, 2021n). 8) No large grained complex habitats were delineated within the survey area. 9) Neither vegetated habitats nor submerged aquatic vegetation (SAV) has been charted in the survey area.
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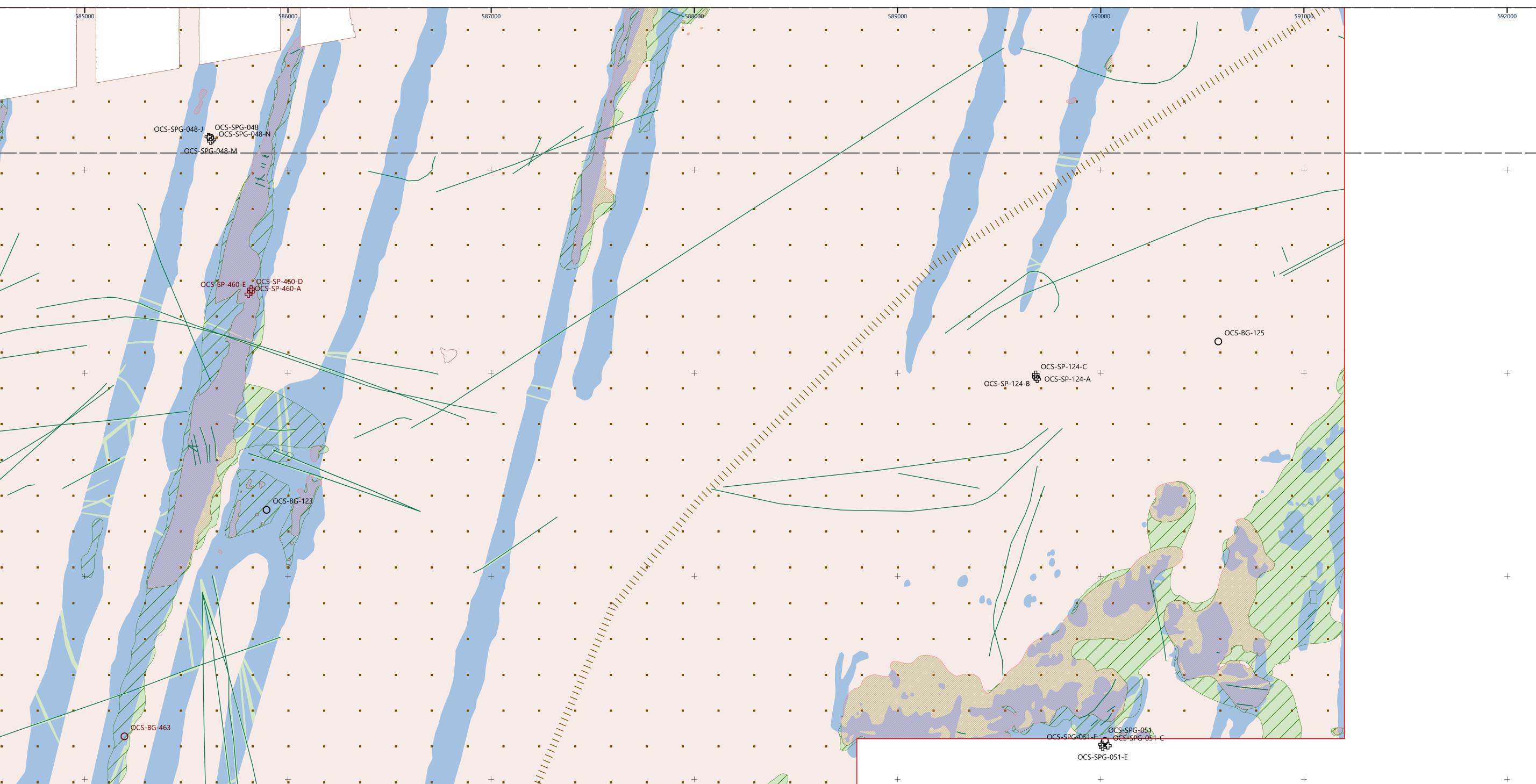
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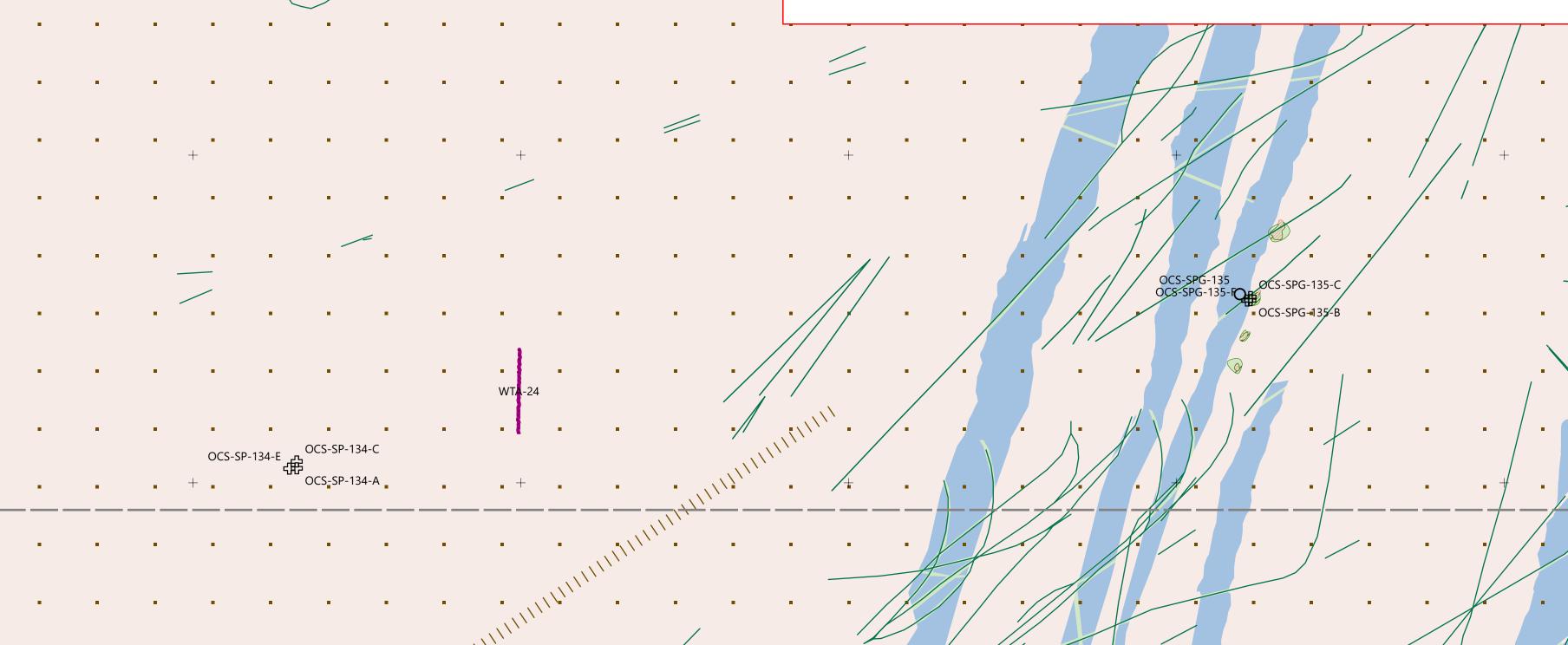


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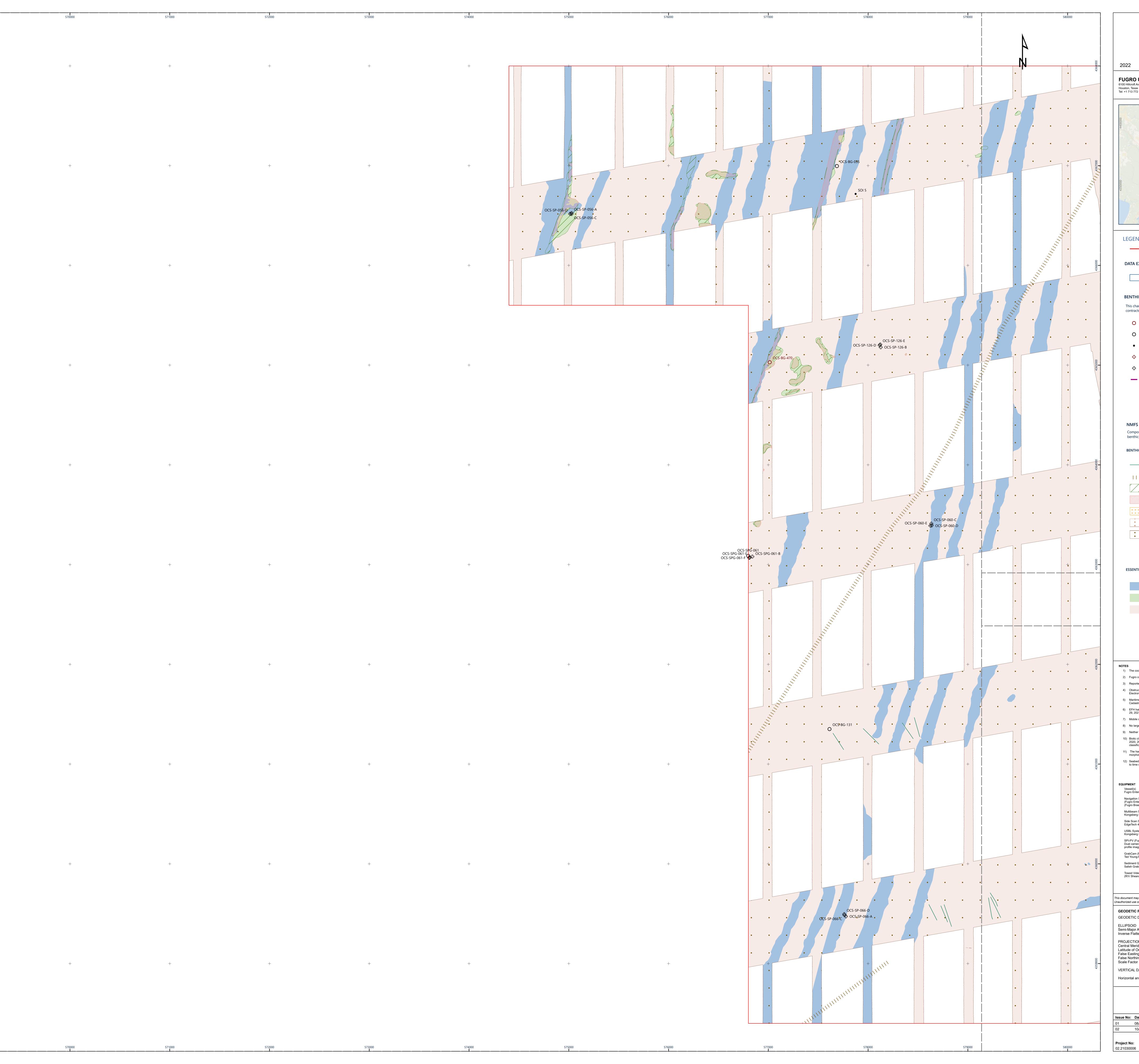
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ATLANTIC SHORES offshore wind ANTIC SHORES OFFSHORE **GRATED GEOPHYSICAL & GEOT** IARINE SITE INVESTIGATION REPORT: VOLUME **DFFSHORE NEW JERSEY** LEASE OCS-A0549: BENTHIC HABITAT 2022 Appendix F: Benthic Technical Memo Chart No. I FUGRO USA MARINE, INC. -fugro 6100 Hillcroft Avenue Houston, Texas 77081 Tel: +1 713 772 3700 Fax: +1 713 778 6816 NEW JERSEY the sta + OCS-A 0549 OCS-A 0499 LEGEND Wind Turbine Area Study Extent DATA EXTENTS Wind Turbine Area MBES Interpretive Data Extent BENTHIC SAMPLING LOCATIONS This chart symbolizes benthic samples taken from several surveys conducted in 2019 thru 2022 by various contractors. O Grab Sample (Fugro, 2022) O Grab Sample (Fugro, 2020) Grab Sample (TerraSond, 2019) SPI-PV Sample (Fugro, 2022) 公 SPI-PV Sample (Fugro, 2020)

Towed Video Transect (RPS, 2021)

NMFS ESSENTIAL FISH HABITAT (EFH)

Composite benthic features layers indicate that more than one benthic feature is present in the same geographic area

BENTHIC FEATURES

 Seabed Scars
Sand Ridge Crests
Irregular Seafloor Areas
Localized Relief Features
 Sand Waves
Megaripples
Ripples

ESSENTIAL FISH HABITAT CLASSIFICATION

Complex Heterogeneous Complex



NOTES 1) The coordinate grid is in NAD1983 UTM Zone 18N, meters.

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EQUIPMENT

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This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorized use of this document in any form whatsoever is prohibited. Not for navigational use. GEODETIC PARAMETERS GEODETIC DATUM North American Datum 1983 ELLIPSOIDGRS 1980Semi-Major Axis6,378,137.000 mInverse Flattening298.257222101

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PROJECTION	UNIVERSAL TRANSVERSE MERCATOR / Zone 18N (EPSG 26918)	
Central Meridian (CM)	75°00'00" W	
Latitude of Origin	00°00'00" N	
False Easting	500,000 mE	
False Northing	0 mN	
Scale Factor at CM	0.9996	
VERTICAL DATUM	MEAN LOWER LOW WATER (MLLW)	
Horizontal and vertical units are in meters		

Scale 1 : 10,000 at 42" x 67" page size Drawn: Checked: Approved

DRAFT - For Review

FINAL

Chart Name:

08/10/2022

10/18/2022

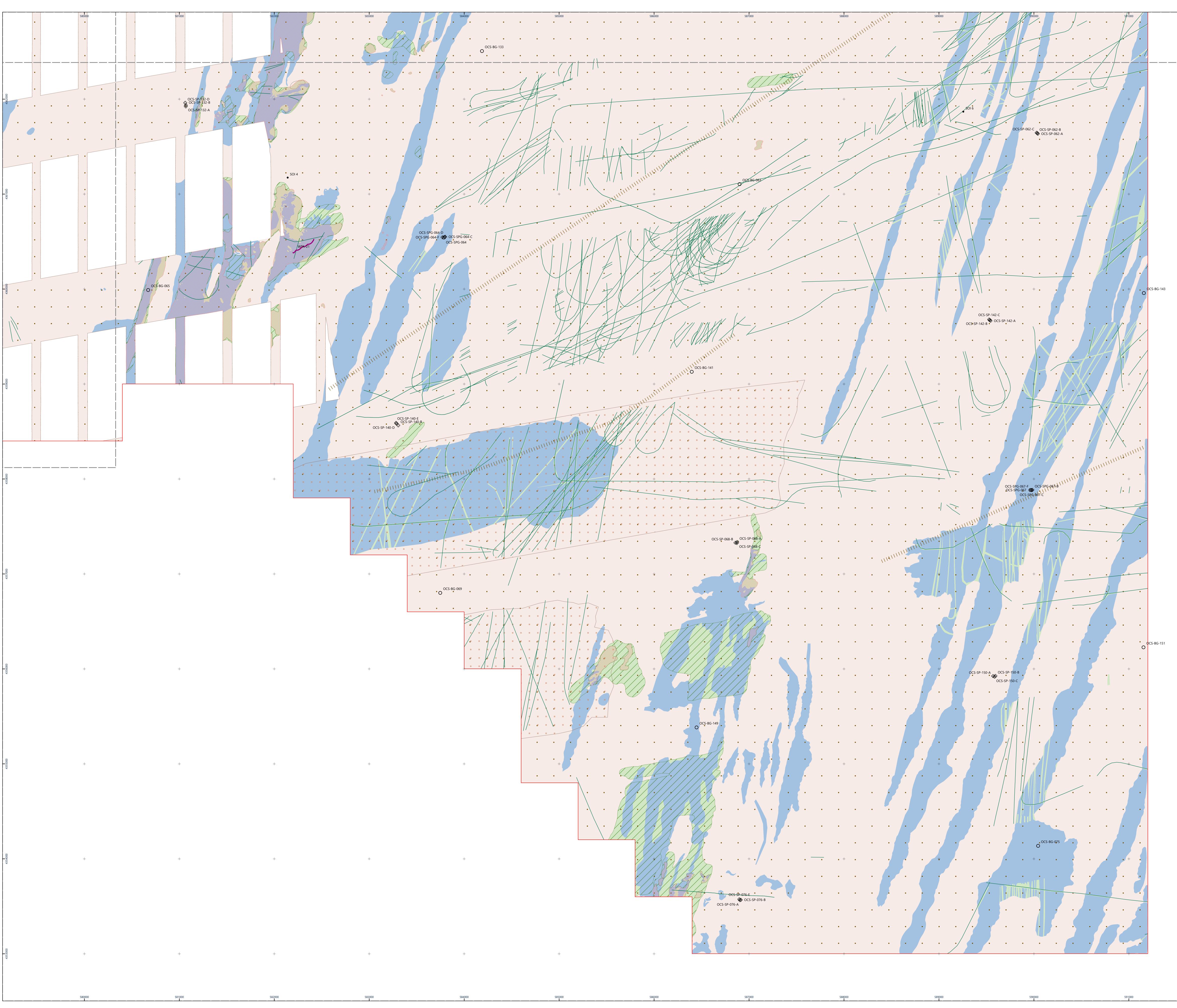
21030011 Shell LA0549 EFH Classification

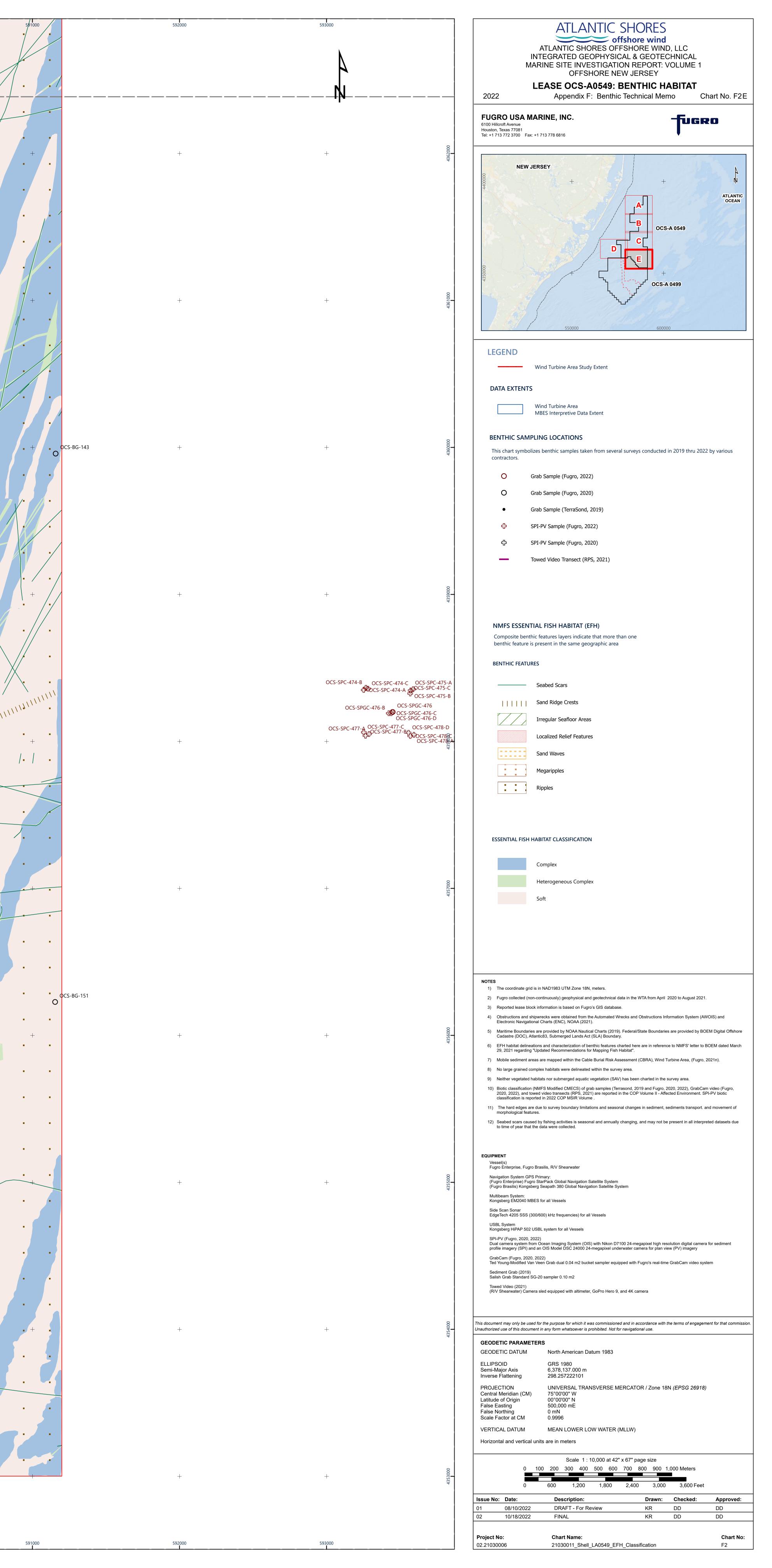
Chart No:

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