VINEYARD NORTHEAST

CONSTRUCTION AND OPERATIONS PLAN

VOLUME II APPENDIX

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VINEYARD OFFSHORE

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Benthic Factual Report

OCS-A 0522 and Offshore Export Cable Corridors

April 2023

Vineyard Northeast

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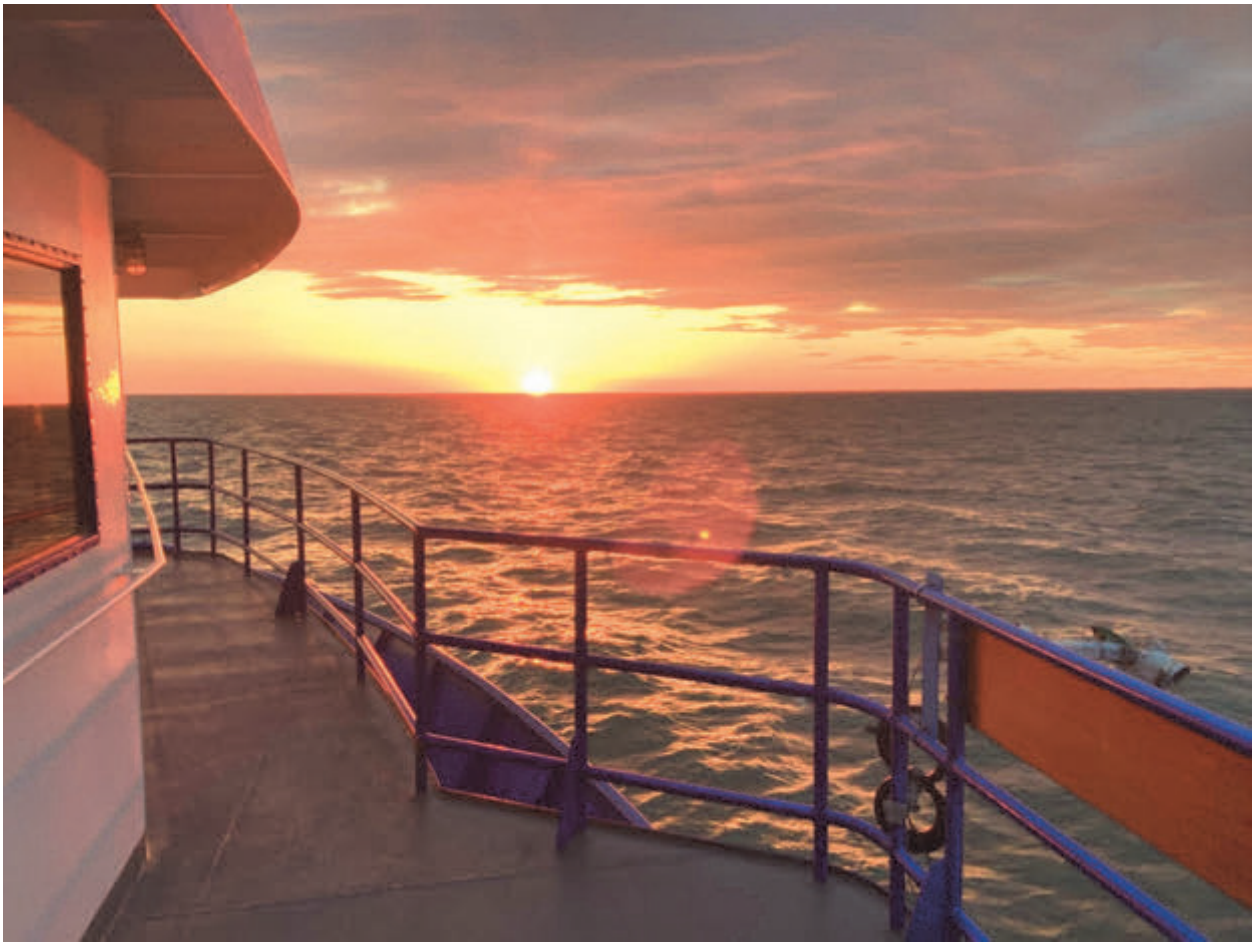

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ACRONYM LIST

ACFOR	Abundant, Common, Frequent, Occasional, and Rare
ANOSIM	Analysis of Similarity
ANOVA	Analysis of Variance
CMECS	Coastal and Marine Ecological Classification Standard
Connecticut OECC	Connecticut Offshore Export Cable Corridor
CT OECC	Connecticut Offshore Export Cable Corridor
GIS	Geographic Information System
LPIL	Lowest Practical Identification Level
MA OECC	Massachusetts Offshore Export Cable Corridor
Massachusetts OECC	Massachusetts Offshore Export Cable Corridor
NMDS	Non-metric Multidimensional Scaling
NMFS	National Marine Fisheries Service
OECC	Offshore Export Cable Corridor
ROV	Remotely Operated Vehicle
RPMC-G	Remove Parent or Merge Children – Group
SIMPER	Similarity Percentages Analysis
TDI-Brooks	TDI-Brooks International, Inc.

1.0 Introduction

TDI-Brooks International, Inc. (TDI-Brooks), with primary support from TRC and CR Environmental LLC (collectively, the benthic environmental survey team) conducted a benthic environmental survey in support of Vineyard Northeast LLC's (the Proponent) proposal to develop, construct, and operate offshore renewable wind energy facilities in Bureau of Ocean Energy Management (BOEM) Lease Area OCS-A 522 (Lease Area), along with associated offshore and onshore transmission systems. This survey was conducted from April to October of 2022 and included the collection and analysis of underwater video transects, still imagery, and benthic grabs from both the Lease Area and the offshore export cable corridors (OECCs).

The general roles and responsibilities of TDI-Brooks, TRC, and CR Environmental were as follows:

- TDI-Brooks
  - Overall project management
  - Survey vessel and equipment supplier
  - Collection and laboratory analysis of benthic grain size samples
  - Collection of underwater imagery
  - Reporting
- TRC
  - Collection and laboratory analysis of benthic infaunal samples
  - Support collection of underwater video transects
  - Interpretation of underwater imagery
  - Support TDI-Brooks with data deliverables and reporting
- CR Environmental
  - Supplemental vessel and equipment supplier for shallow-water locations in Connecticut waters
  - Collection of benthic grain size and infaunal samples
  - Collection of underwater imagery
  - Support TDI-Brooks with data deliverables and reporting

This *Benthic Factual Report* documents the approach and methodology used by the benthic environmental survey team to collect and process the benthic grab samples and imagery. Additionally, it compiles the grab sampling results and benthic imagery for the purpose of characterizing the benthic community and habitat in the sampled locations.

2.0 Methods

2.1 Field Survey

TDI-Brooks mobilized the *RV Brooks McCall* (*BMCC*) in April and October of 2022 and the *RV Emma McCall* (*EMMA)* in May of 2022 in Fall River, Massachusetts to provide benthic environmental survey support associated with the Proponent's development and installation activities. TRC supported TDI-Brooks with onboard collection of benthic infaunal samples and underwater video transects.

In locations where water depths were too shallow for safe operation of the *BMMC* and *EMMA*, CR Environmental was subcontracted to acquire benthic environmental data using the *RV Lophius*. All of these shallow water locations were in Connecticut state waters. Due to space constraints, TRC was not on board the *RV Lophius* for the portions of the surveys completed by CR Environmental. However, Zane Werner of TDI-Brooks accompanied the CR Environmental crew.

2.1.1 Underwater Video Transects

Video imagery was collected from the *BMMC* and *EMMA* with small commercial inspection Remotely Operated Vehicles (ROVs). These included the Blue Robotics BlueROV2 and Deep Trekker REVOLUTION (refer to TDI-Brooks Field Report #22-4342 for full technical specifications). The ROVs were equipped with 6 ½ HP thrusters, two 1,000 Lumen LED floodlights, a 1080p HD integrated camera, a GoPro Hero 9, and scaling lasers. The laser scaling distance was 8 cm for the BlueROV2 and 2.5 cm for the Deep Trekker REVOLUTION. A TDI-Brooks pilot controlled the ROV integrated camera's field of view which was angled forward or slightly downward. The ROVs were controlled with an integrated control box via the ROV's tether. A USBL acoustic tracking system interfaced with a DGPS system was used to track the location of the ROV on the seafloor. A multi-beacon transponder mounted on the ROV was used to relay signals to the USBL system. To navigate the ROV, the USBL/DGPS system was connected to a laptop running WinFrog navigation software on the vessel. Real-time positions of the vessel and ROV were recorded in one second intervals.

Underwater video transects were performed initially during the daytime hours and then shifted to full 24-hour operations. Transects were targeted for 200 meters in length with 50-100 meter lead ins for ROV approach. Video transects generally ranged from 10-30 minutes in duration, dependent on environmental conditions and habitat complexity.

At each station, the ROV was towed by the vessel in drift mode slightly above the seafloor at speeds ranging from 0.2 to 2 knots. Video imagery was monitored in real time to ensure data quality. Video imagery was obtained using digitally recorded built-in camera feed and GoPro recordings.

Onboard data processing and storage was handled by trained personnel. Imagery and associated positional data were reviewed to ensure accurate recording of metadata. The metadata are descriptive data sources composed of information that is used to process the images. Backup data was also collected (and later used for further quality checks). Several QC conventions (i.e., decision rules) were required to address the imagery quality and transect performance. Weather,

sea state (e.g., currents), and underwater visibility constrained the acceptability of the ROV video transects. The acceptable limits were defined by processing capabilities and ensured a consistent standard for all imagery collected. Unacceptable imagery was either rejected or aborted onboard based on environmental or technical complications by trained imagery analysts and/or ROV operators. The rejected and/or aborted transects were re-attempted either immediately after retrieving the ROV or at a later point when conditions improved.

The towed video sled used for shallow water underwater video transects.
Photo credit: CR Environmental

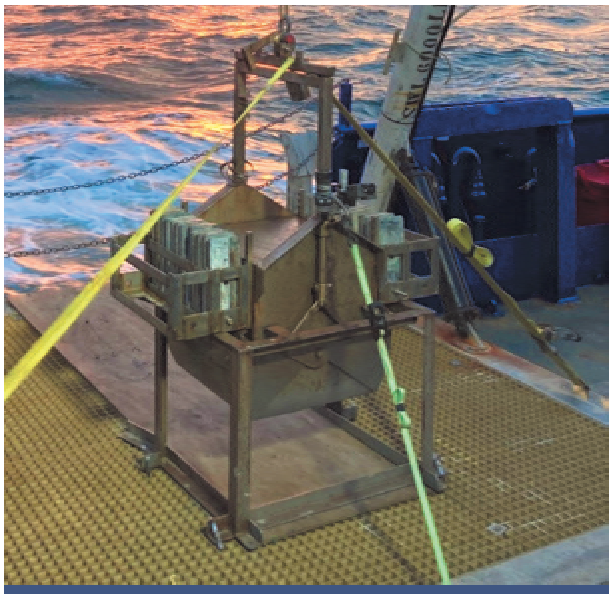
Video transect imagery was collected from the *R/V Lophius* using a custom-built portable towed video sled (CR Environmental, Inc. 2022). The sled was mounted with an Outland Technologies HD color video camera and two wide-angle LED video lights with variable output control. Scaling lasers were set 25 cm (10 in) apart and calibrated prior to survey operations. The video camera was cabled to a topside console with a DVR recorder and high-resolution daylight monitor. Prior to deploying the video sled, the camera time was synced to the Hypack navigation system and set up with a video overlay showing the transect ID, time, and date. Additionally, a whiteboard was labeled with this information and captured by the camera while on deck.

The video sled was towed at a speed of 0.5 to 1 knot while vertical position was controlled using a lifting davit and lobster pot hauler to optimize the coverage and quality of the video collected. HYPACK recorded coordinates each second. Offsets from the GPS antennae to the davit, as well as adjustments in the layback distance, were also recorded to account for the video sled position.

The locations and orientations of each video transect are depicted in Appendix A and a field log is provided in Appendix C.

2.1.2 Grab Sampling

The benthic grab samples collected from the *BMCC* and *EMMA* were obtained using a Double Salish 0.04 m^2 Van Veen Grab Sampler from April 10 2022 – April 12 2022 (19 samples). From April 12 onward, a 0.25 m^2 50 cm deep box corer was used for remaining benthic grab samples. A GoPro Hero 9 was mounted to the box corer and recorded in situ HD video for each benthic sample location.



Box corer on deck of R/V Brooks McCall

Initially, surface benthic grab samples were collected using a double 0.04 m^2 Van Veen grab sampler. This allowed grain size and infaunal

samples to be extracted from separate chambers for onboard processing. However, due to difficulty obtaining the desired penetration and recovery, a box corer was used to collect the remainder of the benthic samples. Grain size and infaunal samples, when collected together, were collected from different portions of the box corer.

The benthic grab samples collected from the *R/V Lophius* were obtained using a 0.1 m^2 Young-modified Van Veen grab sampler equipped with a stability fin. An Outland Technologies cabled underwater HD video system and lights were mounted on the sampler, facing downward to capture planview imagery of the seafloor at each sampling location.

Benthic grab samples were collected for each project area, as follows:

- Massachusetts Offshore Export Cable Corridor (MA OECC): between April 10 and April 17, 2022.
- Connecticut Offshore Export Cable Corridor (CT OECC): between April 21 and October 7, 2022.
- Lease Area: between April 18 and April 23, 2022.

The locations of each grab sample are depicted in Figures 2.1-1 through 2.1-6. A field log is provided in Appendix B.

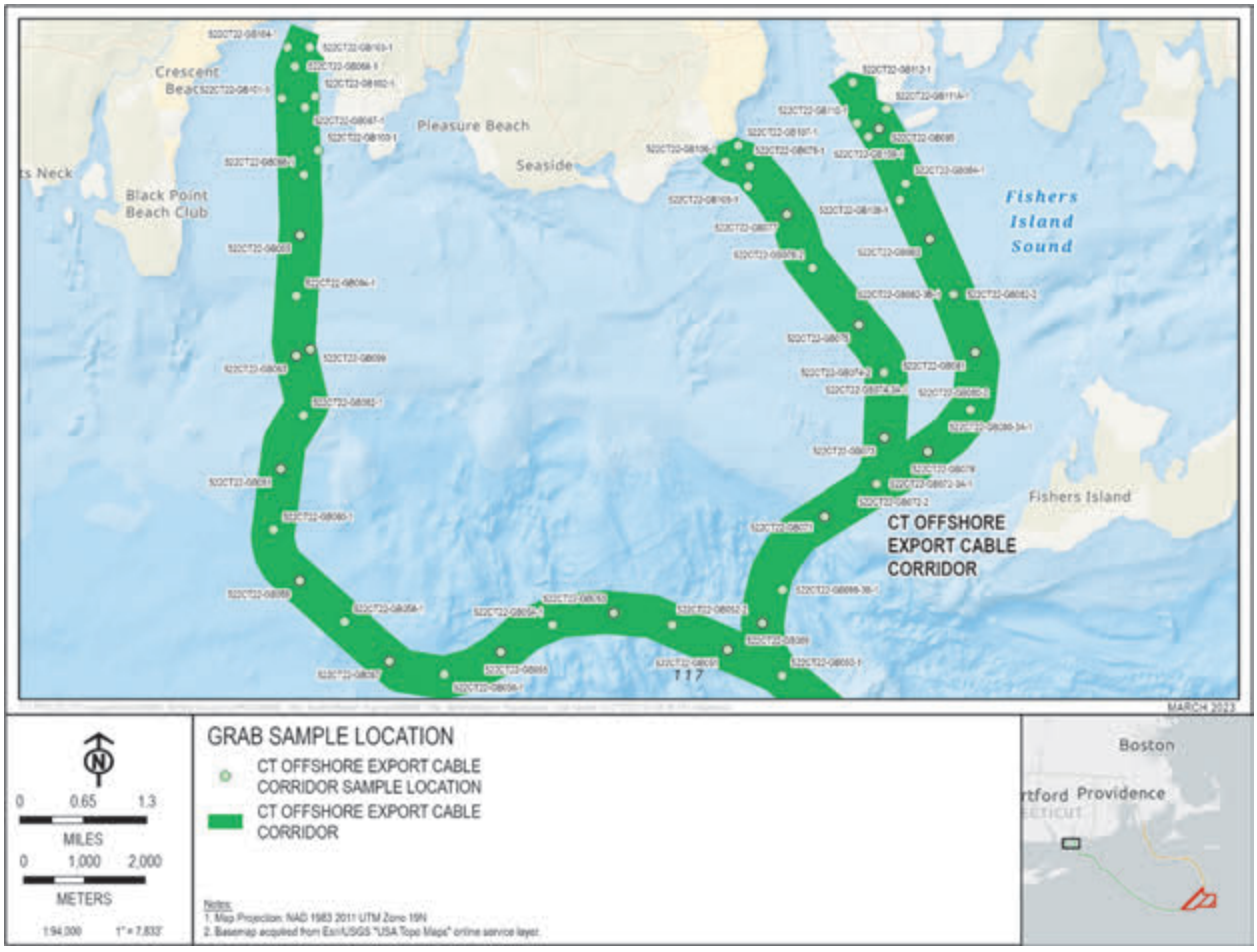


Figure 2.1-1. Benthic Grab Sample Locations by Project Area – Connecticut Offshore Export Cable Corridor (North)

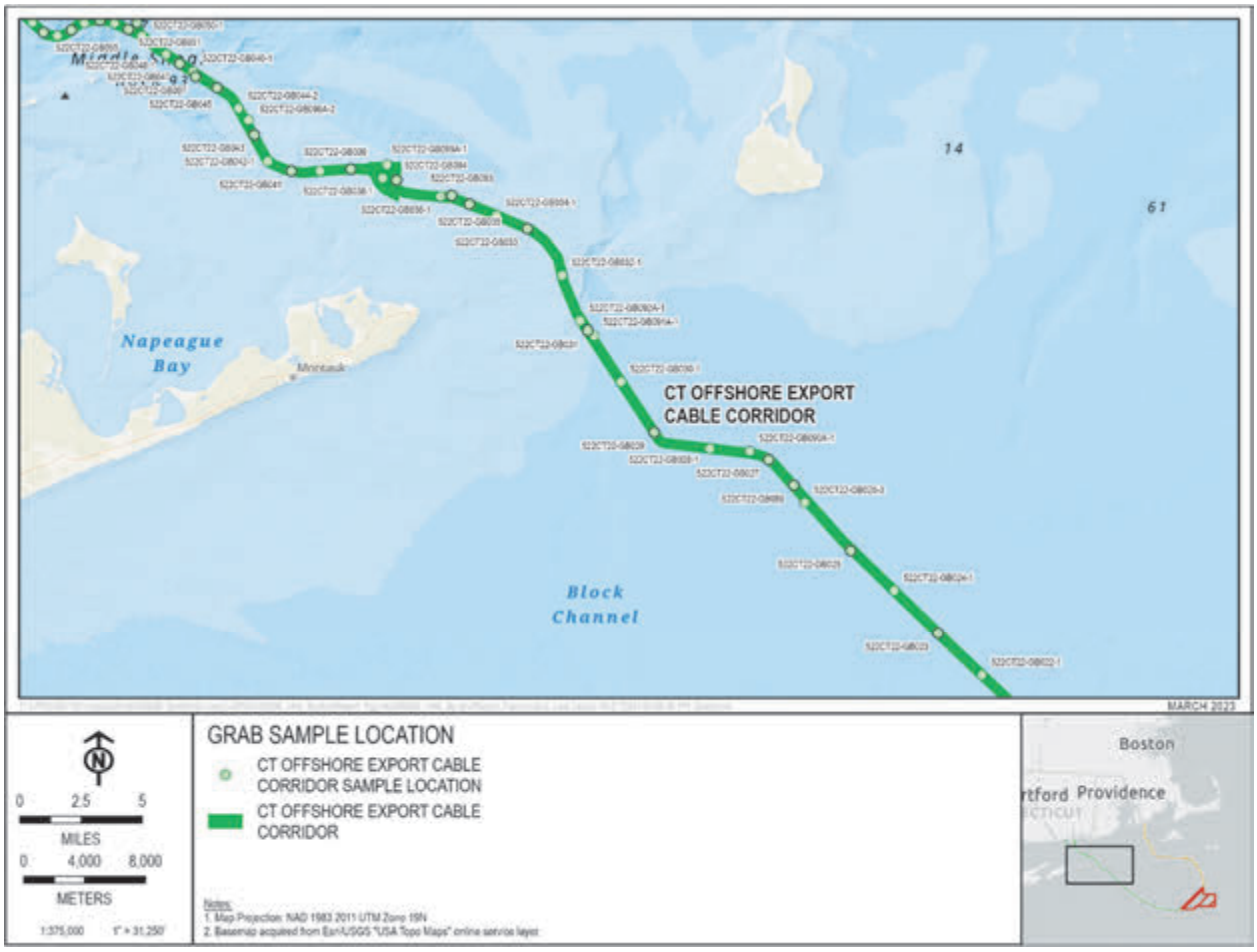


Figure 2.1-2. Benthic Grab Sample Locations by Project Area – Connecticut Offshore Export Cable Corridor (Mid)

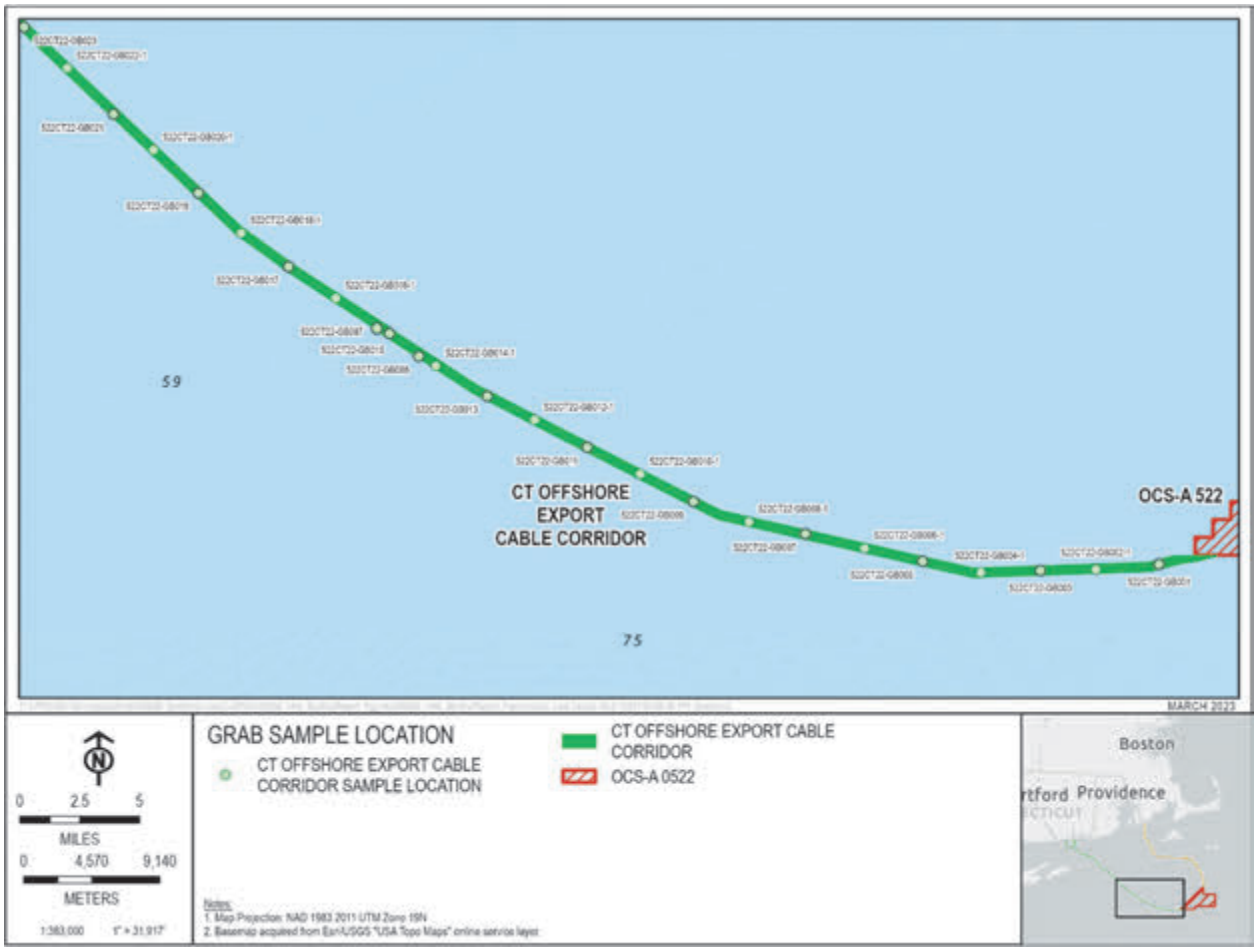


Figure 2.1-3. Benthic Grab Sample Locations by Project Area – Connecticut Offshore Export Cable Corridor (South)

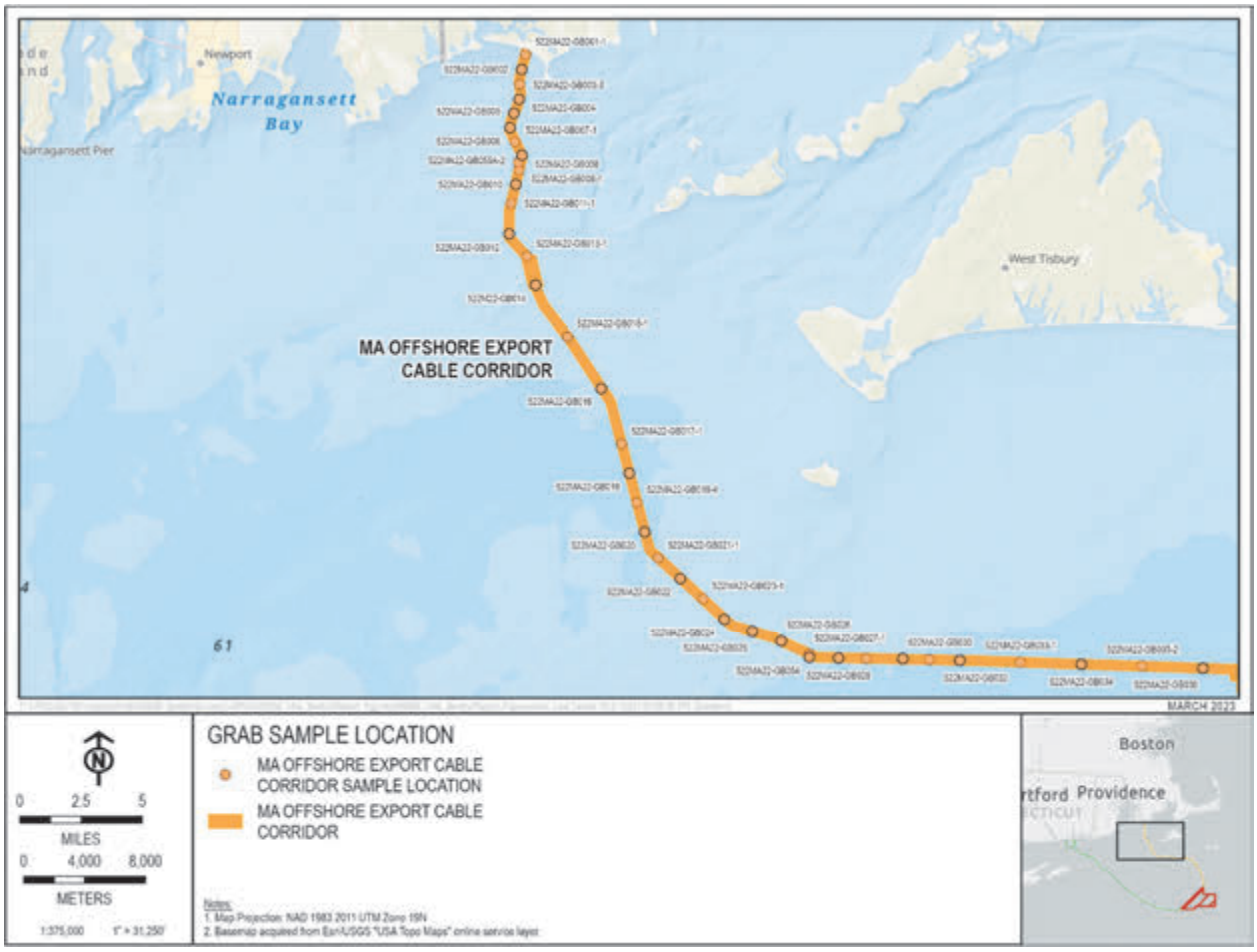


Figure 2.1-4. Benthic Grab Sample Locations by Project Area – Massachusetts Offshore Export Cable Corridor (North)

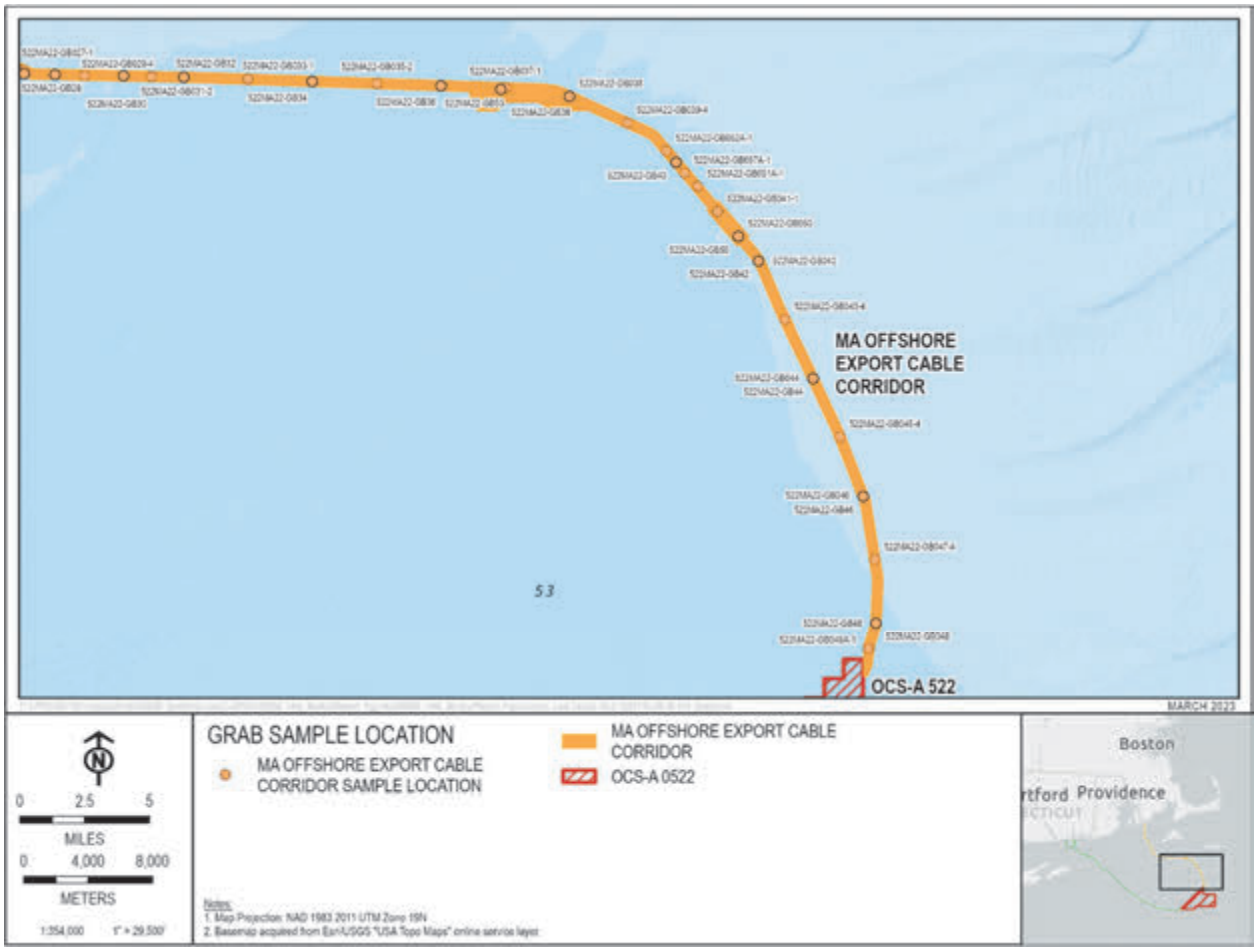


Figure 2.1-5. Benthic Grab Sample Locations by Project Area – Massachusetts Offshore Export Cable Corridor (South)

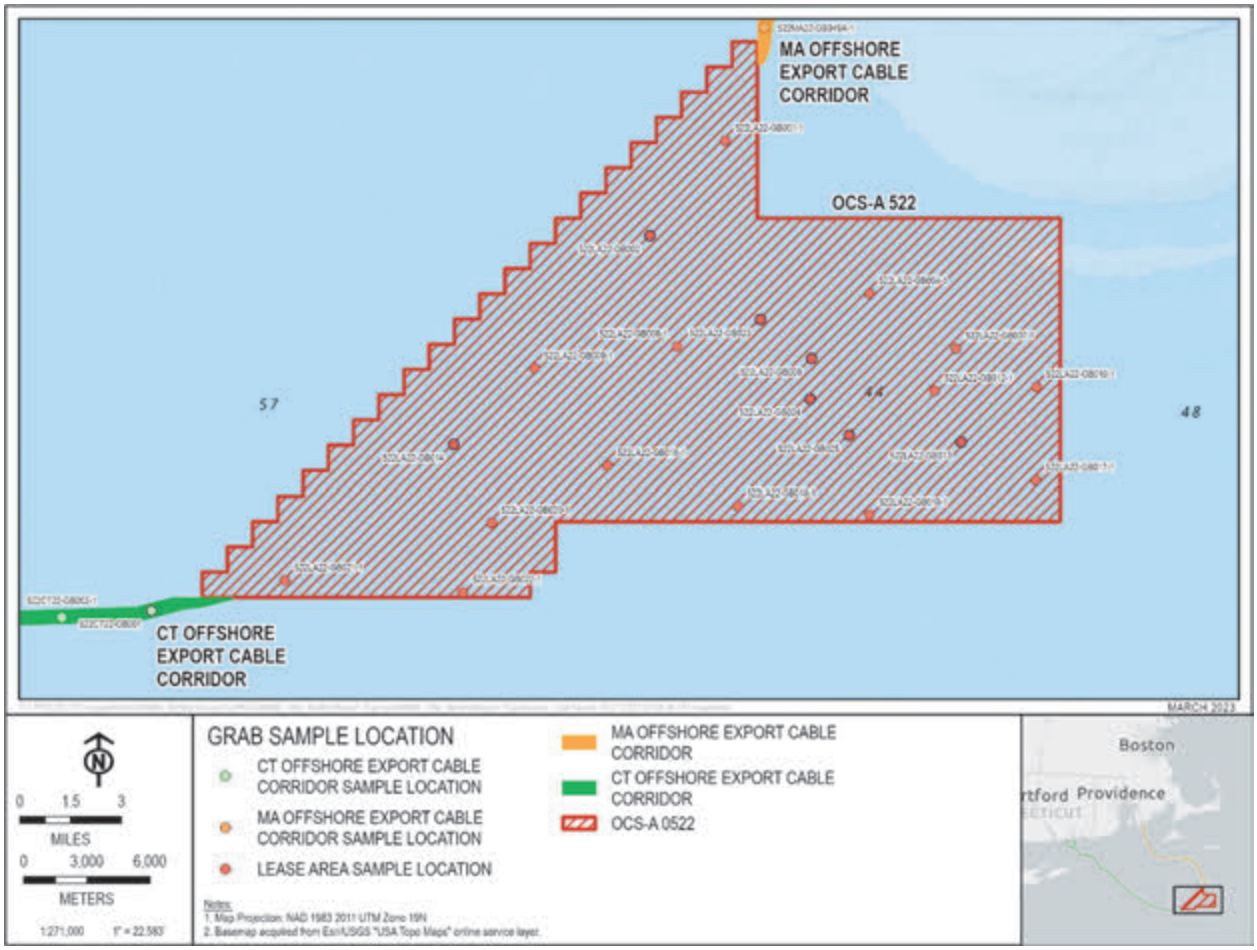


Figure 2.1-6. Benthic Grab Sample Locations by Project Area– Lease Area

Grain Size Samples

Grain size samples were attempted at 428 locations and successfully collected at a total of 411 locations (including 106 sites co-located with infaunal samples). Grain size samples were collected from the top 3 cm of sediment retained within the benthic grab sampler.

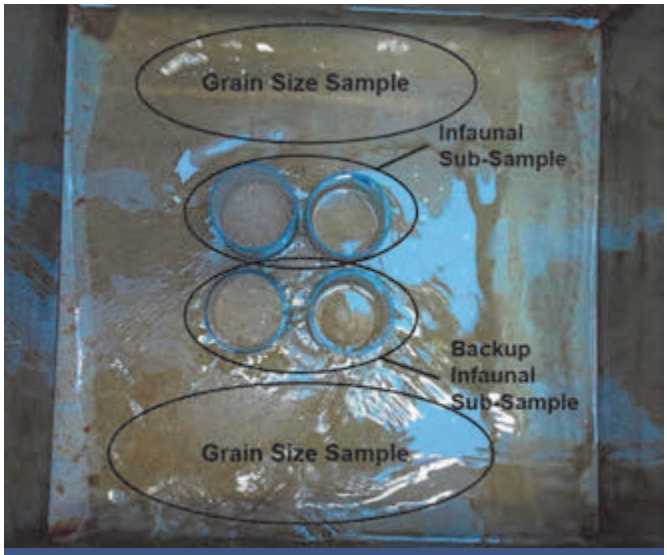
After retrieval, each sample was examined for quality and a decision was made to accept or reject the sample based on representativeness of the grab. Sample grabs showing evidence of uneven penetration (i.e., angled sample) or washout were rejected as unrepresentative and incomplete; in these cases, the grab was redeployed until an acceptable sample was retained.

Undisturbed sample material was photographed from above on deck, then extracted by TDI-Brooks and placed in labeled and sealed plastic bags for grain size analysis.

Infaunal Grab Samples

After retrieval, each sample was examined for quality and a decision was made to accept or reject the sample based on representativeness of the grab. The target recovery for infaunal grab

samples was a depth of 10 cm. Sample grabs that did not retain at least 8 cm of material or showed evidence of uneven penetration (i.e., angled sample) were rejected as unrepresentative and incomplete; in these cases, the grab was redeployed until an acceptable sample was retained. Duplicate samples were taken for each location, with one to be processed and another kept in storage as a backup.



Sampling technique with core liners in box corer for 522MA22-VT039

Once an acceptable sample was retrieved, undisturbed sample material was photographed from above on deck. Then a set area was subsampled from each infaunal grab sample, for which a plastic core liner was used as a reference. The diameter of the core liner used for field subsampling was 6.99 cm (2.75 in). Subsample sizes varied depending on bulk of the sampled material. For samples collected with a Van Veen grab sampler, one core liner was placed in each of the two compartments to extract a single primary subsample (one core liner) and a backup subsample (one core liner), due to the limited dimensions of the grab. This method was utilized by both TRC and CR Environmental. For samples collected with the box corer sampler, two core liners were used for each single subsample and each single backup subsample. This method was utilized by TRC. Final subsample sizes ranged from 9.58 cm^2 to 76.64 cm^2 in the Lease Area, 3.83 cm^2 to 76.64 cm^2 in the Connecticut Offshore Export Cable Corridor, and 15.33 cm^2 to 76.64 cm^2 in the Massachusetts Offshore Export Cable Corridor. The area associated with each subsample is presented with the results in Appendices D, E, and L.

Field descriptions of sample recovery and sediment type (i.e., grain size) were recorded for each grab sample. Additionally, the presence of large or abundant organisms was noted. Depending on the depth of the material retained in the sampler, the top 8-10 cm of sediment in one side of the grab was removed using the core liner and a stainless-steel spoon to prevent loss of material. Material was transferred to a 500-µm bucket sieve and gently rinsed to remove fine sediments. Sieved samples were then fixed in a solution containing 10% buffered formalin in seawater. Fixed samples were stored on the survey vessel in High-Density Polyethylene (HDPE) quart-size sample jars and labeled with the project name, sample identification code, sampling date, preservative, and the initials of the collector. Preserved samples were returned to TRC offices for storage and laboratory analysis of benthic infauna.

2.2 Lab Analysis

2.2.1 Grain Size Analysis

Grain size analysis was completed by TDI-Brooks' geotechnical laboratory. Samples were dried at 110 ± 5 °C in an oven overnight, or longer for fine-grained samples (i.e., silty and clayey

sediment), and were then disaggregated in a ceramic mortar by either a rubber pestle or a ceramic pestle, depending on the hardness of the aggregates.

A gradation-representative specimen of the dried, disaggregated sample was weighed, then sieved through a sieve stack (with sieve number and order per client's request). The specimen-bearing sieve stack then was securely mounted on a mechanic shaker and was shaken for 10 minutes. Afterwards, sediment retained on each sieve and collected in the bottom pan were separately collected into pre-weighed tins, and weighed. The mass of sediment retained on each sieve and collected in the bottom pan was then calculated by subtracting the tin mass from the total mass of sediment and tin. The sum of retained sediment mass was compared against the initial specimen mass for QC purposes. A retest was conducted if mass change was over 5% of the initial specimen mass.

2.2.2 Benthic Infaunal Analysis

Upon receipt at TRC's infaunal analysis laboratory, each sample was logged in and decanted through a 500-µm sieve. Samples were gently rinsed in the sieve to remove the formalin fixative and any additional fine sediment that remained after the initial field sieving process. Once thoroughly rinsed, each sample was returned to a labeled jar and preserved with 70% ethanol for storage. Once preserved, the primary subsamples proceeded to the sorting stage. Backup subsamples were held but not processed further.

For sorting, the contents of each sample were examined using a high-power dissecting microscope (7X to 45X magnification) and high-intensity gooseneck fiber optic lamp. Organisms found during the sorting process were removed with forceps and placed in 70% ethanol. Each vial was labeled with the project name, collection date and sample identification number. All residue (sediment and organic matter) from the sorted and unsorted portion of each sample was placed in a separate labeled container and re-preserved in 70% ethanol.

Sorted organisms were subsequently identified by a qualified taxonomist to the lowest practical taxonomic level (LPIL) using a dissecting microscope and readily available taxonomic keys and references (e.g., Bartholomew, 2001; Martinez, 1999; Pollock, 1998; Abbott and Morris, 1995; Weiss, 1995; Gosner, 1978; Bousfield, 1973; Gosner, 1971; Smith, 1964; Pettibone, 1963). Temporary slide mounts were prepared for oligochaete worms, capitellid polychaetes, and certain amphipod taxa as necessary to improve the taxonomic precision of identification for these groups. Slide-mounted organisms were identified under a compound microscope capable of 64X to 1600X magnification.

For quality assurance and control (QA/QC) purposes, a second qualified staff member (quality assurance officer) re-sorted 10% of the samples (or one, whichever was greater) analyzed by each sorter to ensure organisms were being adequately removed from the samples. The quality assurance officer checked the sorted sample material for remaining organisms and calculated an efficiency rating (E) using the following formula:

$$E = 100 \times \frac{n_a}{n_a + n_b}$$

Where n_a is the number of individuals originally sorted and verified as identifiable organisms by the QC checker and n_b is the number of organisms recovered by the QC checker. If the original sorter achieved E < 90% (i.e., less than 90% of the organisms in the sample removed), corrective action was taken to ensure greater sorting efficiency for other samples sorted by the same individual. Corrective action includes but is not necessarily limited to, additional training on organism recognition and re-sorting of sample material.

2.3 Video Data Post-Processing

2.3.1 Objectives

Underwater videos were used to estimate relative species abundance of macro-organisms, identify point substrates (standalone boulder or anthropogenic gear), classify bottom types, and mark any notable habitat features on each 200-meter transect line.

2.3.2 Methods

Video files were initially processed in Adobe Premier Video Editor. Files were stitched together, where necessary, to produce one complete video file for each transect. Once stitching was complete, the video for each transect was trimmed or padded to match the transect start timestamp, as identified in the navigation DAT files that were provided by TDI-Brooks. Due to time sync communication errors on two different devices (ROV and recording computer), if the ROV start time was before the DAT file start time, the video would be trimmed at the beginning to align with start time zero. If the ROV start time was after the navigation DAT file start time, the video would be padded at the beginning to match start time zero. This ensured that all marks throughout the video were timed synchronously with the DAT data. Time sync communication delays were resolved prior to ROV deployment for video transects collected later in the benthic environmental survey program. Therefore, these video transects were manually shifted post-processing to match the DAT data rather than clipping or padding. The approach used (trimming/padding or shifting) to process the video files for each transect is noted in Appendix P.

Once video file processing was complete, the selected footage from each video was loaded into a Microsoft Access-based software tool for time-stamped entry of video annotations. Each video was viewed in its entirety two times to focus on different annotations. The first viewing was focused on flora, fauna, biogenic features, point substrates, and miscellaneous event notes, while the second viewing was focused on video quality, classification of continuous substrates (see Section 4.0 for more details on the Coastal and Marine Ecological Classification Standard (CMECS) classifications), and identification of seafloor feature overlays (e.g., bedforms).

Identification of fauna was completed to the LPIL for video imagery by marine taxonomists. To ensure accurate and consistent flora and fauna identifications, video analysts consulted taxonomic reference guides (e.g., Kells and Carpenter 2011; Martinez 1994; Taylor and Villalard 1972). Although the target identification level for fish and macroinvertebrates was genus/species, some identifications were left at a higher taxonomic level, especially if a specimen could not be confidently identified due to video quality, obscured diagnostic features, or other complicating factors. Flora identification was generally at a high level for most observations of macroalgae and intended to correspond to bottom cover and substrate type visibility. However, distinctive

macroalgal taxa and submerged aquatic vegetation were identified to lower taxonomic levels, as allowed by video quality and environmental conditions.

Observations of fauna and biogenic features were directly enumerated when consisting of one or two individuals at the time of annotation. Observations of larger faunal aggregations were binned into groups consisting of 3-5, 6-10, 11-50, and more than 50 individuals. To estimate total individuals observed along the linear transect, the number of occurrences in each bin was multiplied by the midpoint of the bin, except for the largest bin. For example, a species observed three times in the 3-5 bin would be estimated as 12 individuals.

Overall faunal relative abundance was also categorized by the ACFOR scale (abundant, common, frequent, occasional, and rare) for each major taxa group in each project area. This was completed to provide a generalized characterization of taxa distribution in the video transects. The ACFOR method is a semi-quantitative scale often used for the rapid assessment of species composition and abundance. The following category definitions were used for evaluation of underwater video transects:

- Abundant: observed in high densities (individuals per unit area) over the majority of the transect. An example of this would be the extensive fields of common sand dollar (*Echinarachnius parma*) observed along some transects dominated by sand.
- Common: observed many times over the course of the transect, but in moderate densities.
- Frequent: observed several times over the course of the transect, but in low densities or patchy distribution of high-density occurrences. An example of the latter would be northern star coral (*Astrangia poculata*), which sometimes occurred at high densities but was generally limited in extent to small patches of coarse substrate.
- Occasional: observed multiple times over the course of the transect in very low densities (one to two individuals per occurrence) or infrequent patchy distribution of moderate density occurrences.
- Rare: present, but infrequently observed over the course of the transect (typically limited to a single individual).

Video analysts assigned substrate types and percent cover estimates based on the National Marine Fisheries Service (NMFS) 2021 guidelines, defined in “Updated Recommendations for Mapping Fish Habitat” guidance dated March 29, 2021 (also see Section 4.0 for substrate class, subclass, group, subgroup, biogenic class, biogenic subclass, and/or shell type classifications used).

The results of the video analysis were integrated with Geographic Information System (GIS) mapping to produce a 200m transect line displaying layers of characterized habitats, fauna, flora, point substrate features, seafloor feature overlays, and visibility for the surveyed transects within the Lease Area and Offshore Export Cable Corridors.

2.4 Benthic Infauna Data Post-Processing

Benthic macroinvertebrate data were corrected for taxonomic ambiguity and used to calculate summary metrics to describe the surveyed environment. Univariate and multivariate analyses were then performed to determine if differences in benthic macroinvertebrate organism density, taxonomic richness, diversity, evenness, and community composition existed between samples collected from different project areas, habitat types, and sample depths, as described below.

2.4.1 Taxonomic Composition

2.4.1.1 Resolution of Taxonomic Ambiguity

Macroinvertebrate data are complicated by the presence of immature or damaged specimens, which often prevent the identification of all organisms to the same taxonomic level (Cuffney et al. 2007, Meredith et al., 2019). These conditions result in datasets that contain abundances associated with multiple levels within the taxonomic hierarchy (e.g., abundances associated with the polychaete worm *Mediomastus sp.* as well as the parent family of that genus, Capitellidae). To resolve these ambiguous parent-child pairs while preserving taxa richness and abundance to the extent possible, we employed the Remove Parent or Merge Children – Group (RPMC-G) method described in Cuffney et al. (2007). This method involves the removal of an ambiguous parent taxon if its abundance is less than the sum of abundance(s) reported from its taxonomic children. If abundance of a parent taxon exceeds that of its taxonomic children, then the children are merged with the parent. As the derivation of abundance and richness metrics should not be decoupled (Cuffney et al. 2007), the RPMC-G resolved dataset was used for calculation of all metrics presented below and univariate and multivariate analyses.

2.4.1.2 Macrofaunal Density

Macrofaunal density is a measure of abundance expressed as an estimate of the number of individuals per unit area. Although macrofaunal density can reflect the productivity of marine habitats (Taylor 1998), it may also serve as an indication of stress or disturbance at a location (Dean 2008). Consequently, the density of benthic organisms may increase or decrease in response to different types of stress (e.g., thermal or chemical pollution, sediment deposition, physical abrasion or displacement) (Dean 2008, Thrush and Dayton 2002).

The density of benthic organisms responds to disturbance as mitigated by the tolerance (or preference) of a given organism to the particular source of disturbance. However, density may vary substantially over small areas or short periods of time and should therefore be interpreted cautiously, especially when the area of seafloor sampled is very small. For this study, macrofaunal density is expressed as the number of organisms per square meter.

2.4.2 Richness, Diversity, Evenness

2.4.2.1 Taxa Richness

Taxa richness is the number of different taxa that are found within a given area or community and is widely accepted as a good assessment measure of diversity (Magurran 2003). As detailed

above, taxonomic ambiguity in the dataset was resolved following the RPMC-G method (Cuffney et al. 2007) and this resolved dataset was used to calculate the taxa richness of each sample.

2.4.2.2 Shannon Diversity

The Shannon Diversity Index is a univariate summary measure of diversity that is influenced by both the number of taxa in a sample and the evenness of organism distribution between taxa, and is calculated as follows:

$$\text{Shannon Index } (H') = 1 \sum_{i=1}^{n} p_i \ln p_i$$

Where p_i is the proportion of total individuals represented by taxa i, ln is the natural log, and n is the number of taxa. Lower Shannon Diversity Index values indicate lower diversity (samples with only one taxa will have a Shannon index of 0), and higher values indicate increasing diversity. Diversity increases both with greater taxa richness and with greater uniformity in the distribution of organisms between taxa. PRIMER v6 was used to calculate Shannon diversity using enumeration data for each sample.

2.4.2.3 Pielou's Evenness

Peilou's evenness is a univariate summary measure of the evenness of organism distribution between different taxa within a sample, and is calculated as follows:

$$\text{Pielou's evenness } (J') = \frac{H'}{\ln S}$$

Where H' is the Shannon diversity index value and $\ln S$ is the maximum possible Shannon diversity index value (H'_{max}). Pielou's evenness is constrained between 0 and 1, with higher values indicating greater evenness (in a sample where all taxa are represented at the same density Peilou's evenness would equal 1). PRIMER v6 was used to calculate Pielou's evenness using enumeration data for each sample.

2.4.3 Univariate Analyses

Single factor Analysis of Variances (ANOVAs) and unpaired T-tests were used to determine if statistically significant differences in the univariate metrics described above existed between groups of samples. These statistical approaches were used to compare means of taxa richness, macrofaunal density, Shannon diversity, and Pielou's evenness between samples collected in different areas (within different project areas, and in nearshore and offshore waters), depth categories (<40m = shallow, >40m = deep), and habitat types (based on CMECS substrate group classifications). Parametric statistical tests like ANOVA assume that observations are normally distributed, which is often not the case with biological data. Therefore, density data were log-transformed prior to univariate analysis to better meet the assumption of normality. Sample 522CT22-GB048-1 was an outlier with one small bivalve (*Crassinella lunulata*) individual present in 78.64 cm^2 of sample material. Therefore, this sample was excluded from univariate analyses.

If statistically significant differences were indicated by ANOVA testing, post-hoc tests (Tukey HSD) were performed.

2.4.4 Multivariate Analysis

Community composition describes the identity and relative abundance of each taxon within a community. Benthic community composition is dependent upon a variety of factors, including, but not limited to, sediment grain size and disturbance regime, substrate type, above-sediment structure, and exposure to predation (Byers and Grabowski 2014).

Though the univariate metrics described above provide valuable information about the benthic communities of interest, multivariate approaches allow a greater understanding of community structure and provide more realistic conclusions.

Non-metric Multidimensional Scaling (NMDS) ordination was used to visualize divergence in community composition between benthic samples. NMDS is a non-parametric distance-preserving ordination approach that reduces the complexity of multivariate data and is well suited for use on sparse data sets (Kruskal 1964). NMDS results in the generation of a plot, which represents the community composition of each sample by its relative position in unitless ordination space. The relative distance between points is indicative of the similarity of sample communities; points that are closer together in ordination space indicate similar communities, those that are farther apart indicate less similar communities. Densities were fourth root transformed to down-weight the influence of highly abundant species. Sample 522CT22-GB048-1 was an outlier with one small bivalve (*Crassinella lunulata*) individual present in 78.64 cm^2 of sample material. Therefore, this sample was excluded from multivariate analyses. All multivariate analyses were conducted in PRIMER version 6.1.18 (Clarke and Gorley 2006) using Bray-Curtis (Sorensen) distance measures (Bray and Curtis 1957). The resulting NMDS ordination was then coded to display a variety of sample groupings including project area (Lease Area, MA OECC, CT OECC), sample depth (<40m = shallow, >40m = deep), distance from shore (nearshore = state waters, offshore = federal waters) and CMECS substrate group classification.

Analysis of Similarity (ANOSIM), another non-parametric approach, was used to test for differences in community composition between samples collected from the above-described groups. ANOSIM tests for differences between specified groups of samples through permutation-based hypothesis testing. ANOSIM generates R statistics that represents the ratio between within-group and between-group dissimilarities; values close to 0 indicate a lack of separation of groups, and values close to 1 indicate complete segregation of groups. ANOSIM was run using default settings and included 999 permutations for each analysis. When ANOSIM revealed significant differences in community composition between groups, similarity percentages analysis (SIMPER) was performed to determine the contribution of individual species to observed differences in community composition between groups.

3.0 Results

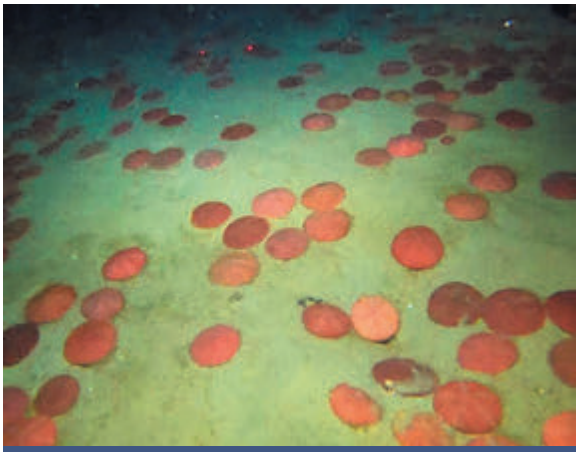
3.1 Video Analysis

High-resolution digital video of the seafloor was successfully collected along 192 transects within the project areas. These video transects were analyzed to identify fauna and flora present along each 200m transect line. All fauna was identified to the LPIL by comparing multiple observations within all video data. All flora was noted in reference to bottom type cover and visibility, i.e., if the bottom substrate was completely covered by macroalgae rendering bottom classification impossible for a portion of the transect. Image based identification of marine fauna via oblique field of view video footage is often hindered by poor visibility and a complex underwater light field. Taxa observed in this analysis have been grouped together into broad taxa groups rather than individual species to provide a more representative result. A full list of observed organisms by the LPIL per transect is included in Appendix F. Non-motile fauna observations are based on number of times an individual or group was seen. For motile species, due to continuous video imagery and lack of scale in the field of view, the raw counts of species were used in abundance data for invertebrate and vertebrate observations. The raw counts of vertebrates were then used to incorporate relative abundance of the top 5 most common species. This was done to demonstrate the variability of transect observations within each of the three areas surveyed.

Overall observations that were parsed into features or continuous quality measures were made for each transect. The features included biogenic features, those structures produced by biota such as empty shells with growth, polychaete tubes, burrows, and algae cover. Another feature type observed in the video analysis was anthropogenic items. These items were further identified as fishing gear, pot traps and nets that were either intact or derelict, marine debris such as expended ship parts, scraps of wood or metal, or trash. A list of these items and which transects they occurred in can be found in Appendix F. The continuous quality measures ranked the visibility (i.e., poor or none) along each transect which would in turn affect identification abilities and accuracies within the video. Visibility was marked as Low Visibility if turbidity and marine snow decreased the line of sight by half (usually caused by high bottom currents). No visibility included periodic black out footage (i.e., no light), extreme ROV orientation loss, and temporary debris blocking camera view.

3.1.1 Lease Area

A total of 19 video transects were collected within the Lease Area and analyzed for flora and fauna. The relative abundance of invertebrate and vertebrate fauna in Lease Area video transects are summarized in Table 1 and Table 2. The most common invertebrates observed were bivalves and crustaceans. The bivalves observed in the Lease Area were commonly seen burrowed in the substrate with their siphons projecting, or they were scallops either in a burrow or propelling through the water column. The crustaceans most commonly seen were hermit crabs and walking crabs (non-swimming crabs). Further identification of most



Large quantity of Echinarachnius parma *in 522LA22-VT004*

walking crabs is unreliable since lower-level taxa requires internal or minute features to be viewed close up. Note that although echinoderms were not in the top 20% of observations, sand dollars (*Echinarachnius parma*) were seen in large quantities across the seafloor in both overlapping groups and spread-out individuals. There was no flora observed in the Lease Area transects. Cephalopods were observed in the Lease Area but not included in percent of observations, as they are considered highly motile fauna. A full species observation list can be found in Appendix F. Representative imagery is presented in Appendix G. One observation of anthropogenic gear (rope) was observed in Lease Area transect 522LA22-VT010, found in Appendix N.

Table 1. Ranked Abundance of Invertebrate Taxa in Lease Area Video Transects

Taxa Group	Rank	% of Invertebrate Observations in Lease Area	ACFOR Abundance
Bivalvia	1	39.36%	Abundant - Observed in high densities buried in the substrate with their siphons exposed throughout a majority of the transect.
Crustacea	2	21.64%	Frequent - Observed several times with either lone individuals or small groups throughout the majority of a transect.
Annelida	3	14.47%	Common - Observed many times throughout the course of a transect in moderate groups buried in the substrate with fans exposed.
Echinodermata	4	7.34%	Frequent - Observed several times with either lone sea stars or a patchy distribution of high-density sand dollars occurring throughout the course of a transect.
Hydrozoa	5	4.61%	Frequent - Clusters of hydroids observed several times in patchy distributions of moderate groups.
Non-Scleractinia Anthozoa (Soft Corals, Sea Pens, and Anemones)	6	4.35%	Frequent - Observed several times throughout the course of the transect in low densities.
Nudibranchia	7	3.98%	Frequent - Observed several times throughout the course of the transect in low densities.
Gastropoda	8	2.80%	Occasional - Observed multiple times in low densities over the course of a transect.
Bryozoa	9	1.39%	Occasional - Observed multiple times in low densities over the course of a transect.

Table 1. Ranked Abundance of Invertebrate Taxa in Lease Area Video Transects (continued)

Taxa Group	Rank	% of Invertebrate Observations in Lease Area	ACFOR Abundance
Porifera	10	0.03%	Rare - Observed once in the two transects Porifera was present.
Tunicata	11	0.01%	Rare - Observed once in one transect.

Table 2. Ranked Abundance of Top 5 Vertebrate Species of Lease Area Transects

Vertebrate Species	Rank	% of Vertebrate Observations in Lease Area*	ACFOR Abundance
Atlantic Silverside (*Menidia menidia*)	1	53.40%	Abundant - Observed in high density groups of 50 or more each observation. Some transects had one group of 50 or more, while other transects had multiple groups of 50 or more throughout the transect.
Red Hake (*Urophycis chuss*)	2	22.47%	Common – Observed many times over the course of each transect in moderate/low densities. Individuals were observed up to 49 times and pairs were observed up to 12 times.
Silver Hake (*Merluccius bilinearis*)	3	7.17%	Common – Observed many times over the course of the three transects. Usually seen as individuals, pairs, or a group of 3-5. The individuals were observed up to 58 times in one transect.
Cunner (*Tautogolabrus adspersus*)	4	3.96%	Frequent – Observed several times over the course of one transect, in varying sized groups of moderate to high densities. Seen as both individuals and all group ranges.
Unidentified Flatfish	5	2.31%	Frequent – Observed several times over the course of each transect but in low densities. Most observations were individuals spread throughout the transect.
*Total may not add up to 100% due to only representing top 5 most common vertebrate observations. **Raw observation counts of motile fauna may cause inflated numbers.			

3.1.2 Massachusetts Offshore Export Cable Corridor

Abundant clusters of Cliona Sponge on cobble in 522MA22-VT005

A total of 59 video transects were collected within the Massachusetts Offshore Export Cable Corridor and analyzed for flora and fauna. The relative abundance of invertebrate and vertebrate fauna in Massachusetts Offshore Export Cable Corridor video transects are summarized in Table 3 and Table 4. The most common invertebrates observed were the Porifera, Hydrozoa, and Bryozoa. The majority of Porifera observed was encrusted sponge on hard substrate (i.e., boulders). Hydroids and bryozoans were also commonly observed growing on hard substrate (i.e., boulders, and gravel), solid biological features (i.e., empty shells) and on the seafloor. The flora observed had minimal amounts of green algae (Chlorophyta), red algae (Rhodophyta), and brown algae (Phaeophyceae). Cephalopods were observed in the Massachusetts Offshore Export Cable Corridor but not included in taxa counts seen in Table 3, as they are considered highly motile fauna. Several observations were made for anthropogenic gear in Massachusetts Offshore Export Cable Corridor consisting of marine debris described as rope, derelict fishing gear, and plastic waste. A full chart of fauna flora, and anthropogenic gear observations can be found in Appendix F. Representative imagery is presented in Appendix G.

Table 3. Ranked Abundance of Invertebrate Taxa in Massachusetts Offshore Export Cable Corridor Transects

Taxa Group	Rank	% of Invertebrate Observations in MA OECC	ACFOR Abundance
Porifera	1	23.80%	Abundant - Observed in high densities encrusting on boulders and hard substrate throughout the majority of the transect.
Hydrozoa	2	23.02%	Abundant - Observed in high densities attached to boulders throughout the majority of the transect.
Bryozoa	3	14.76%	Abundant - Observed in high densities attached to boulders throughout the majority of the transect.
Echinodermata	4	13.84%	Abundant - Sand dollars and sea stars observed in both high densities and lone individuals throughout the majority of the transect.

Table 3 Ranked Abundance of Invertebrate Taxa in Massachusetts Offshore Export Cable Corridor Transects (continued)

Taxa Group	Rank	% of Invertebrate Observations in MA OECC	ACFOR Abundance
Scleractinia (Stony Corals)	5	8.84%	Frequent - Observed in patchy distributions of high-density clusters on boulders and cobble over the course of the transect.
Crustacea	6	6.01%	Common - Barnacles were observed in high densities encrusted on boulders with patchy distribution. Other crustaceans were observed many times in moderate to low densities.
Non-Scleractinia Anthozoa (Soft Corals, Sea Pens, and Anemones)	7	5.57%	Frequent - Observed in either low density groups or lone individuals over the course of the transect.
Tunicata	8	1.71%	Frequent – Observed several times in low densities or patchy distributions of high-density occurrences on boulders and hard substrate over the course of the transect.
Gastropoda	9	1.35%	Frequent - Observed in either patchy high-density groups, several lone individuals, or low density groups over the course of the transect.
Annelida	10	0.71%	Common – Observed many times over the course of the transects in moderate-density groups.
Bivalvia	11	0.29%	Occasional – Observed multiple times over the course of the transect in very low densities.
Ctenophora	12	0.08%	Occasional – Observed multiple times over the course of the transect in very low densities or infrequent patchy distributions of moderate density occurrences.
Nudibranchia	13	0.03%	Occasional – Observed multiple times over the course of the transect in very low densities.

Table 4. Ranked Abundance of Top 5 Vertebrate Species of Massachusetts Offshore Export Cable Corridor Transects

Vertebrate Species	Rank	% of Vertebrate Observations In MA OECC*	ACFOR Abundance
American Butterfish (*Peprilus triacanthus*)	1	22.39%	Common – Observed many times over the course of the transects in various sized groupings, ranging from many individuals spread out or moderate sized groups.
Cunner (*Tautogolabrus adspersus*)	2	16.31%	Common – Observed many times over the course of the transects in various sized groupings, ranging from individuals spread out or moderate sized groups.
Red Hake (*Urophycis chuss*)	3	14.59%	Frequent – Observed several times over the course of the transects as individuals.
Unidentified Fish	4	8.66%	Occasional – Observed multiple times over the course of the transects in very low densities, and occasionally observing many individuals spread throughout one transect.
Scup (*Stenotomus chrysops*)	5	8.15%	Occasional – Observed multiple times over the course of the transects in very low densities, and occasionally observing many individuals spread throughout one transect and some groups of varying sizes.

*Total may not add up to 100% due to only representing top 5 most common vertebrate observations.
**Raw observation counts of motile fauna may cause inflated numbers.

3.1.3 Connecticut Offshore Export Cable Corridor

Homarus americanus next to anthropogenic gear in 522CT22-VT002

A total of 114 video transects were collected within the Connecticut Offshore Export Cable Corridor and analyzed for flora and fauna. The relative abundance of invertebrate and vertebrate fauna in Connecticut Offshore Export Cable Corridor video transects are summarized in Table 5 and Table 6. The most common invertebrates observed belonged to Porifera, Tunicata, and Scleractinia. The majority of Porifera observed was encrusted sponge on hard substrate. Tunicates were frequently observed on hard substrate (i.e., boulders and gravel), solid biological features (empty shells), and on the seafloor. The Scleractinia (stony corals such as northern star coral) were commonly seen on hard substrate. Note that although the commercially valued American lobster (*Homarus americanus*) was not a frequently observed species, they were most commonly observed in Connecticut transects. Clusters of eelgrass were present in transects 522CT22-VT109, 522CT22-VT110, 522CT22-VT113, and

522CT22-VT117. Eelgrass was most abundant in transect 522CT22-VT117. Additional flora observed had large amounts of various green algae (Chlorophyta), red algae (Rhodophyta), and brown algae (Phaeophyceae) species in the shallow transects, summarized in Table 7. Cephalopods were observed in the Connecticut Offshore Export Cable Corridor but not included in taxa counts seen in Table 5, as they are considered highly motile fauna and the same individual could have been recorded more than once. Many observations were made for anthropogenic gear in Connecticut Offshore Export Cable Corridor consisting of marine debris described as derelict fishing gear, rope, plastic waste, metal waste (i.e., metal can, metal fishing weight, and metal ladder), and wood debris. The Connecticut Offshore Export Cable Corridor had the most observations of anthropogenic gear, with the most common observations being ropes and crab or lobster-type fishing pots. A full chart of fauna, flora, and anthropogenic gear observations can be found in Appendix F. Representative imagery is presented in Appendix G.

Table 5. Ranked Abundance of Invertebrate Taxa in Connecticut Offshore Export Cable Corridor Transects

Taxa Group	Rank	% of Observations	ACFOR Abundance
Porifera	1	22.39%	Abundant - Observed in high densities encrusting on boulders and hard substrate throughout the majority of the transect.
Tunicata	2	18.83%	Abundant - Observed in high densities on boulders and hard substrate throughout the majority of the transect.
Hydrozoa	3	15.73%	Common - Observed many times in clusters growing on boulders throughout the majority of the transect.
Non-Scleractinia Anthozoa (Soft Corals, Sea Pens, and Anemones)	4	12.81%	Abundant – *Diadumene* sp. observed in high density clusters on boulders. Other organisms observed in soft substrate throughout the majority of the transect.
Bryozoa	5	8.96k%	Common - Observed many times in clusters growing on boulders throughout the majority of the transect.
Crustacea	6	7.09%	Abundant - Observed in moderate and high-density groups and many lone individuals throughout the majority of the transect.
Echinodermata	7	5.77%	Common – Observed many times in moderately sized clusters over the course of the transect.
Scleractinia (Stony Corals)	8	4.21%	Frequent – Observed in moderate density clusters on boulders with occasional high distribution on cobble over the course of the transect.
Gastropoda	9	1.80%	Common – Observed many times in moderately sized clusters over the course of the transect.
Annelida	10	1.68%	Frequent – Observed in patchy distributions of high-density occurrences in soft substrate with fans exposed.

Table 5. Ranked Abundance of Invertebrate Taxa in Connecticut Offshore Export Cable Corridor Transects (continued)

Taxa Group	Rank	% of Observations	ACFOR Abundance
Bivalvia	11	0.73%	Frequent – Scallops observed in patchy distributions of high-density occurrences and other bivalves observed in low densities over the course of the transect.
Nudibranchia	12	0.03%	Rare – Infrequently observed over the course of the transect.
Ctenophora	13	0.02%	Occasional – Observed in very low densities with once occurrence of moderate density.

Table 6. Ranked Abundance of Top 5 Vertebrate Species of Connecticut Offshore Export Cable Corridor Transects

Vertebrate Species	Rank	% of Vertebrate Observations in CT OECC*	ACFOR Abundance
Smooth Dogfish (*Mustelus canis*)	1	10.05%	Common – Observed many times over the course of the transect as spread out individuals.
Scup (*Stenotomus chrysops*)	2	9.60%	Occasional – Observed multiple times throughout the transects as individuals or patchy moderate-density groups.
Atlantic Silverside (*Menidia menidia*)	3	8.11%	Frequent – Observed several times throughout each transect in low densities and occasional patchy high-density groups.
Witch Flounder (*Glyptocephalus cynoglossus*)	4	7.81%	Frequent – Observed several times throughout each transect as spread out individuals.
Black Sea Bass (*Glyptocephalus cynoglossus*)	5	6.69%	Frequent – Observed several times throughout each transect as spread out individuals.
*Total may not add up to 100% due to only representing top 5 most common vertebrate observations. **Raw observation counts of motile fauna may cause inflated numbers.			

Table 7. List of Flora Observed in Connecticut Offshore Export Cable Corridor Transects

Flora	Observation
Red Algae (*Callithamnion* sp.)	Present
Green Algae (Chlorophyta)	Present
Irish Moss (*Chondrus crispus*)	Present
Brown Algae (*Chorda filum*)	Present

Table 7. List of Flora Observed in Connecticut Offshore Export Cable Corridor Transects (continued)

Flora	Observation
Green Algae (*Cladophora* sp)	Present
Green Algae (*Codium fragile*)	Present
Brown Algae (*Petalonia fascia*)	Present
Brown Algae (Phaeophyceae)	Present
Red Algae (*Porphyra* sp.)	Present
Red Algae (Rhodophyta)	Present
Green Sea Lettuce (*Ulva lactuca*)	Present
Eelgrass (*Zostera marina*)	Present

3.2 Grab Sample Analysis

A total of 411 samples were collected and analyzed for grain size and classification of the seafloor using the NMFS-modified CMECS classification system (see Section 4.0). Seafloor imagery was successfully obtained and used for NMFS-modified CMECS classification at an additional 15 locations where grain size samples were not successfully retrieved.

Samples collected from 106 of these sites were by TRC and analyzed for benthic infaunal community composition (see Sections 3.2.2 and 3.2.3). The remainder of the grab samples, including the 15 locations where grain size samples were not successfully retrieved, were classified by Geo SubSea LLC. Results for samples classified by Geo SubSea LLC are presented under separate cover in the Marine Site Investigation Report.

3.2.1 Grain Size Analysis

3.2.1.1 Lease Area

A total of 39 grab samples were successfully collected within the Lease Area and analyzed for grain size. Results of the analysis of these samples are summarized in Table 8. Particle size distributions and grain size analysis results for infaunal grab samples and grain size only grab samples collected within the Lease Area are presented in Appendices J-1 and K, respectively.

Table 8. Summary of Grain Size Analysis of Lease Area Samples

	Sediment Percentage			
	Gravel	Sand	Mud	Gravel-Size Shell
Average	0.1	88.8	4.0	7.1
Minimum	0.0	5.3	0.1	0.0
Maximum	2.0	99.8	16.7	94.6

On average, samples collected from within the Lease Area contained significantly less gravel, and significantly more sand, than samples collected from the Connecticut Offshore Export Cable

Corridor (ANOVAs, all p<0.005). Lease Area samples also contained a significantly lower percentage of mud than Connecticut Offshore Export Cable Corridor samples (ANOVA, P<0.005). Additionally, samples collected from within the Lease Area contained a higher percentage of gravel-size shell than samples collected from the Massachusetts Offshore Export Cable Corridor (ANOVA, p=0.0001).

3.2.1.2 Massachusetts Offshore Export Cable Corridor

A total of 117 grab samples were successfully collected within the Massachusetts Offshore Export Cable Corridor and analyzed for grain size. Seafloor imagery was successfully obtained for an additional five locations where grain size samples were not successfully retrieved. Results of the analysis of the 117 grain size samples are summarized in Table 9. Particle size distributions and grain size analysis results for infaunal grab samples and grain size only grab samples collected within the Massachusetts Offshore Export Cable Corridor are presented in Appendices J-2 and K, respectively.

Table 9. Summary of Grain Size Analysis of Massachusetts Offshore Export Cable Samples

	Sediment Percentage			
	Gravel	Sand	Mud	Gravel-Size Shell
Average	5.6	91.8	2.4	0.2
Minimum	0.0	37.4	0.0	0.0
Maximum	62.5	100.0	26.5	2.1

Samples collected from the Massachusetts Offshore Export Cable Corridor contained significantly lower percentages of gravel-sized shell and mud, on average, than samples collected from within the Lease Area (ANOVAs, all p<0.005). Compared to Connecticut Offshore Export Cable Corridor samples, Massachusetts Offshore Export Cable Corridor samples contained a lower percentage of mud and a higher percentage of sand (ANOVAs, all P<0.005).

3.2.1.3 Connecticut Offshore Export Cable Corridor

A total of 255 grab samples were collected within the Connecticut Offshore Export Cable Corridor and analyzed for grain size. Seafloor imagery was successfully obtained for an additional 10 locations where grain size samples were not successfully retrieved. Results of the analysis of the 255 grain size samples are summarized in Table 10. Particle size distributions and grain size analysis results for infaunal grab samples and grain size only grab samples collected within the Connecticut Offshore Export Cable Corridor are presented in Appendices J-3 and K, respectively.

Table 10. Summary of Grain Size Analysis of Connecticut Offshore Export Cable Samples

	Sediment Percentage			
	Gravel	Sand	Mud	Gravel-Size Shell
Average	8.4	79.9	8.1	3.7
Minimum	0.0	2.3	0.0	0.0
Maximum	97.5	100.0	55.8	59.5

Samples collected from the Connecticut Offshore Export Cable Corridor were generally composed of lower percentages of sand, and higher percentages of mud, than either Lease Area or Massachusetts Offshore Export Cable Corridor samples (ANOVAs, $P<0.005$). Connecticut Offshore Export Cable Corridor samples also contained a greater percentage of gravel than Lease Area samples (ANOVA, $P=0.004$).

3.2.2 Benthic Infauna Community Analysis

3.2.2.1 Lease Area

Results of the analysis of benthic grab samples collected from within the Lease Area in 2022 are presented below and in Appendices D, E, and L.

Taxa Richness

Overall, 58 taxa of benthic fauna were observed in the 14 grab samples collected from the Lease Area in 2022 (Table 11). Taxa richness per sample ranged from 9 to 25, and mean taxa richness was 17 ± 5.0 (mean ± SD) (Table 11). Taxa richness per sample was generally consistent throughout the Lease Area, though lowest values were reported from northeastern samples (Figure 3.2-1).

Table 11. Summary of Key Statistics from the Lease Area Sample Analysis

Statistic	Value
Number of Samples	14
Mean Density m^2 (±1 SD)	41,664 ± 63,399
Mean Taxa Richness (±1 SD)	17 ± 5.0
Total Number of Taxa	58
Number of Taxa Observed by Phylum	
Annelida	25
Arthropoda	20
Chordata	0
Cnidaria	0

Table 11. Summary of Key Statistics from the Lease Area Sample Analysis (continued)

Statistic	Value
Echinodermata	2
Mollusca	10
Nemertea	1
Percent of Total Abundance by Phylum	
Annelida	13.5%
Arthropoda	42.0%
Chordata	0.0%
Cnidaria	0.0%
Echinodermata	0.4%
Mollusca	43.5%
Nemertea	0.6%
*All metrics calculated after taxonomic ambiguity in the dataset was resolved using the RPMC-G method described in Cuffney et al. (2007)	

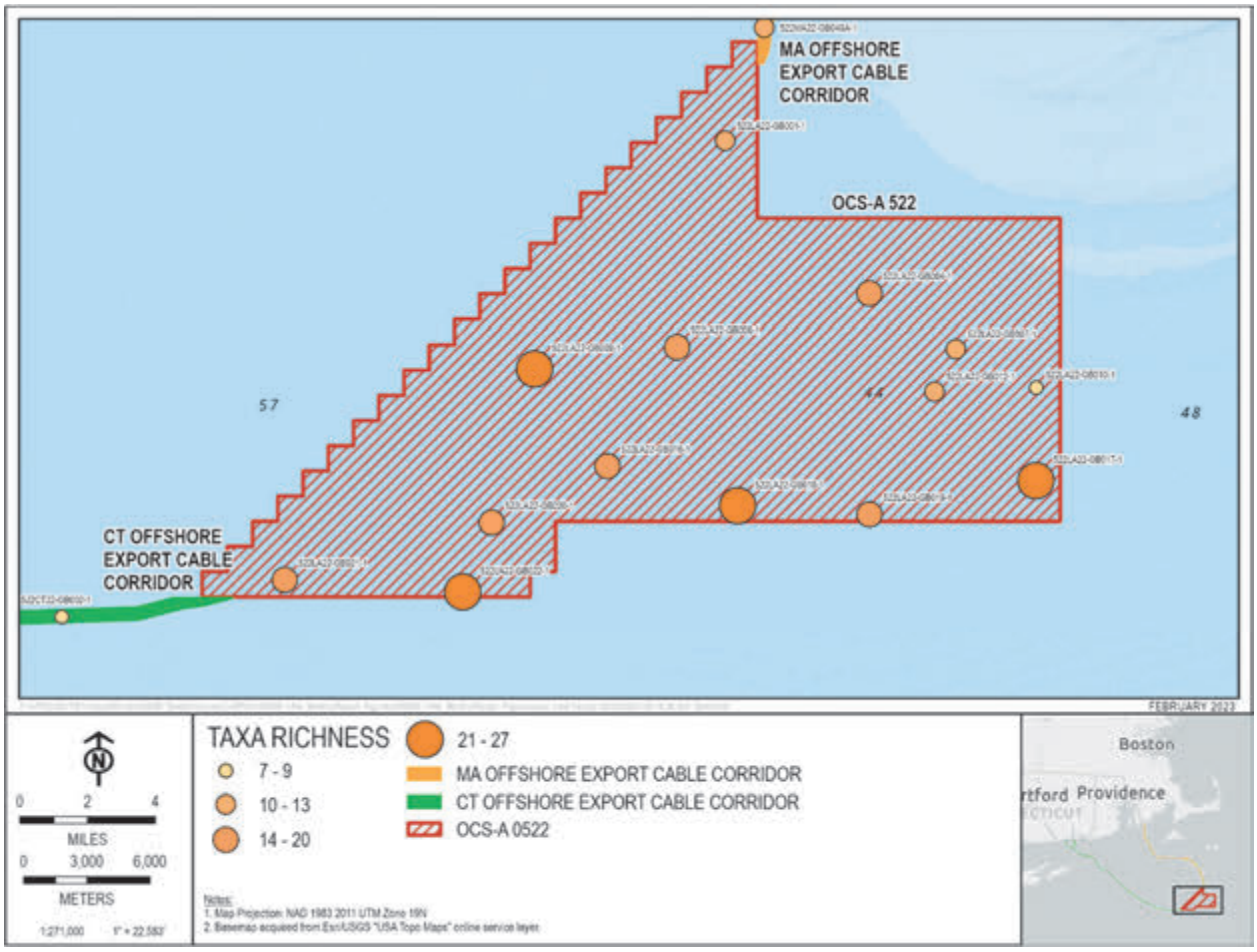


Figure 3.2-1. Lease Area Benthic Infaunal Grab Sample Locations by Taxa Richness

Macrofaunal Density

The mean macrofaunal density for samples collected from the Lease Area was 41,664 ± 63,399 (mean ± SD) individuals/m^2 (Table 11). The highest macrofaunal densities were found at sample 522LA22-GB001-1 (249,483 individuals/m^2, note that this sample was an outlier) and sample 522LA22-GB017-1 (66,807 individuals/m^2). Macrofaunal density was lowest (2,088 individuals/m^2) at sample 522LA22-GB010-1 (Figure 3.2-2). Of the 14 samples analyzed, 10 were characterized by densities of 10,000 individuals/m^2 or more (71% of samples). Similar to taxa richness, total organism density was greatest in the northeastern portion of the Lease Area (Figure 3.2-2).

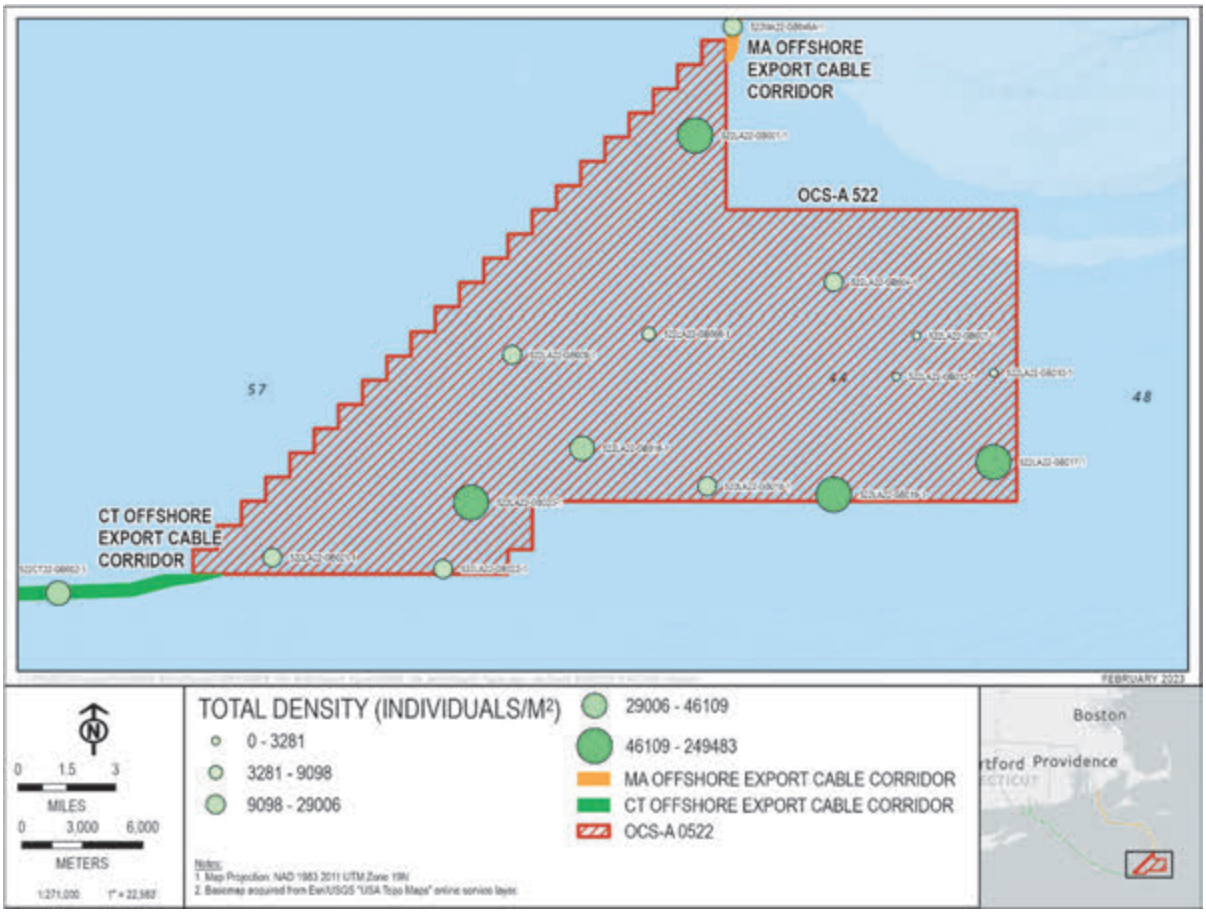


Figure 3.2-2. Lease Area Benthic Infaunal Grab Sample Locations by Total Organism Density

Community Composition

The benthic macrofaunal assemblage documented in the analyzed samples consisted of, mollusks, arthropods, annelids, nemertean ribbon worms, and echinoderms (Table 11).

The most speciose phylum was Annelida, which contributed over 43% of the taxa documented in the analyzed samples. Arthropods and mollusks accounted for approximately 35% and 17% of taxa in Lease Area samples, respectively. Mollusks accounted for the greatest percentage of total organism abundance of any phylum (over 43%), followed by arthropods and annelids (approximately 42% and 13%, respectively, Table 11).

The most abundant taxon in Lease Area samples was the Atlantic nut clam (*Nucula proxima*), which accounted for over 42% of all individuals identified. The ampeliscid amphipod *Ampelisca sp.*, the ischyrocerid amphipod *Erichthonius sp*. were the next most abundant taxa, each accounting for more than 15% of all organisms (Table 12).

Table 12. Relative Abundance of Taxa Encountered in Lease Area Samples

Scientific Name	Common Name	Relative Abundance (%)	Average Density per Unit Area (#/m^2)
Nucula proxima	Atlantic Nut Clam	42.2	17,572
Ampelisca sp.	Ampeliscid Amphipod	19.6	8,161
Erichthonius sp.	Ischyrocerid Amphipod	15.6	6,496
Paraonidae	Paraonid Polychaete	4.8	1,988
Diastylis sp.	Diastylid Cumacean	2.5	1,028
*Includes taxa accounting for ≥ 2% of total abundance			

No taxa indicative of sensitive habitats (hard bottom areas, cold water coral reefs, seagrass beds, etc.) were observed in the Lease Area benthic grab samples.

The most widespread taxon (i.e., observed in the most samples) was the ampeliscid amphipod *Ampelisca* sp., which was present in over 92% of samples collected within the Lease Area (13 samples). The diastylid cumacean (*Diastylis* sp.), Atlantic nut clams, the ischyrocerid amphipod *Erichthonius* sp., the leuconid cumacean (*Eudorella* sp.), and nephtyid polychaete worms, were all present in at least 75% of samples (11 or more samples, Table 13). Other relatively widely distributed taxa included paraonid polychaetes and naidid oligochaete worms without hair chaetae (all found in at least 64% of samples). A total of 15 unique taxa (found in only one sample) were present in the 14 infaunal grab samples collected from within the Lease Area (accounting for approximately 26% of observed taxa).

Table 13. Most Widespread Taxa Encountered in Lease Area Samples

Scientific Name	Common Name	Number of Samples Containing this Taxon
Ampelisca sp.	Ampeliscid Amphipod	13
Diastylis sp.	Diastylid Cumacean	12
Nucula proxima	Atlantic Nut Clam	12
Erichthonius sp.	Ischyrocerid Amphipod	11
Eudorella sp.	Leuconid Cumacean	11
Nephtys sp.	Nephtyid Polychaete (Catworm)	11
Paraonidae	Paraonid Polychaete	10
Naididae w/out hair chaetae	Oligochaete Worm	9
Nemertea	Nemertean Ribbon Worm	8
Clymenella torquata	Maldanid Polychaete	8
*Includes taxa observed in ≥ 7 samples (≥ 57% of samples)		

Most of the taxa observed in the grab samples collected from the Lease Area are typical of soft-sediment habitats. *Ampelisca* spp. are tube-dwelling ampeliscid amphipods that are often found in soft sediment habitats in coastal and estuarine areas of the northeastern Atlantic (Bousfield 1973).

Cumaceans (including *Diastylis* sp. and *Eudorella* sp.), also called hooded shrimp, are small crustaceans that dwell in benthic soft sediments (Watling 1979). These organisms live completely or partially buried in benthic sediments during the day, where they consume material adhered to sediment grains, or filter particulate material (Watling 1979). Some cumacean taxa also migrate into the water column to feed on plankton during nighttime hours (Watling 1979). The corophiid amphipod *Erichthonius* sp., is a tube-dwelling epifaunal suspension-feeding species found in soft sediment habitats (Bousfield 1973). This taxon has been documented coexisting with *Ampelisca* sp. in shallow swale habitats in the mid-Atlantic bight outer continental shelf region (Schaffner and Boesch 1982). Atlantic nut clams (*Nucula proxima*) are small bivalves commonly found in soft sediment habitats, including silty sands in coastal and estuarine areas of southern New England (Steimle 1980). Nut clams are generally indicators of fine sediment habitats with high total organic carbon levels (Chang et al. 1992).

The infaunal sampling results align with expectations, given the CMECS habitat classifications for samples collected within the Lease Area; all 14 samples were classified as fine unconsolidated substrates under the CMECS framework (see Section 4.2.1).

3.2.2.2 Massachusetts Offshore Export Cable Corridor

Results of the analysis of benthic grab samples collected from within the Massachusetts Offshore Export Cable Corridor in 2022 are presented below and in Appendices D, E, and L.

Taxa Richness

Overall, 70 taxa of benthic fauna were observed in the 27 grab samples collected from the Massachusetts Offshore Export Cable Corridor in 2022 (Table 14). Taxa richness per sample ranged from 4 to 19, and mean taxa richness was 10 ± 3.2 (mean ± SD, Table 14). Taxa richness per sample was variable along the Massachusetts Offshore Export Cable Corridor, though highest values were reported in samples collected close to shore, in proximity to the Lease Area, and to the southwest of Nantucket (Figure 3.2-3).

Table 14. Summary of Key Statistics from the Massachusetts Offshore Export Cable Corridor Sample Analysis

Statistic	Value
Number of Samples	27
Mean Density m^2 (±1 SD)	13,336 ± 11,764
Mean Taxa Richness (±1 SD)	10 ± 3.2
Total Number of Taxa	70
Number of Taxa Observed by Phylum	
Annelida	41

Table 14. Summary of Key Statistics from the Massachusetts Offshore Export Cable Corridor Sample Analysis (continued)

Statistic	Value
Arthropoda	13
Chordata	0
Cnidaria	1
Echinodermata	1
Mollusca	13
Nemertea	1
Percent of Total Abundance by Phylum	
Annelida	50.2%
Arthropoda	7.0%
Chordata	0.0%
Cnidaria	0.1%
Echinodermata	0.1%
Mollusca	41.8%
Nemertea	0.9%
*All metrics calculated after taxonomic ambiguity in the dataset was resolved using the RPMC-G method described in Cuffney et al. (2007)	

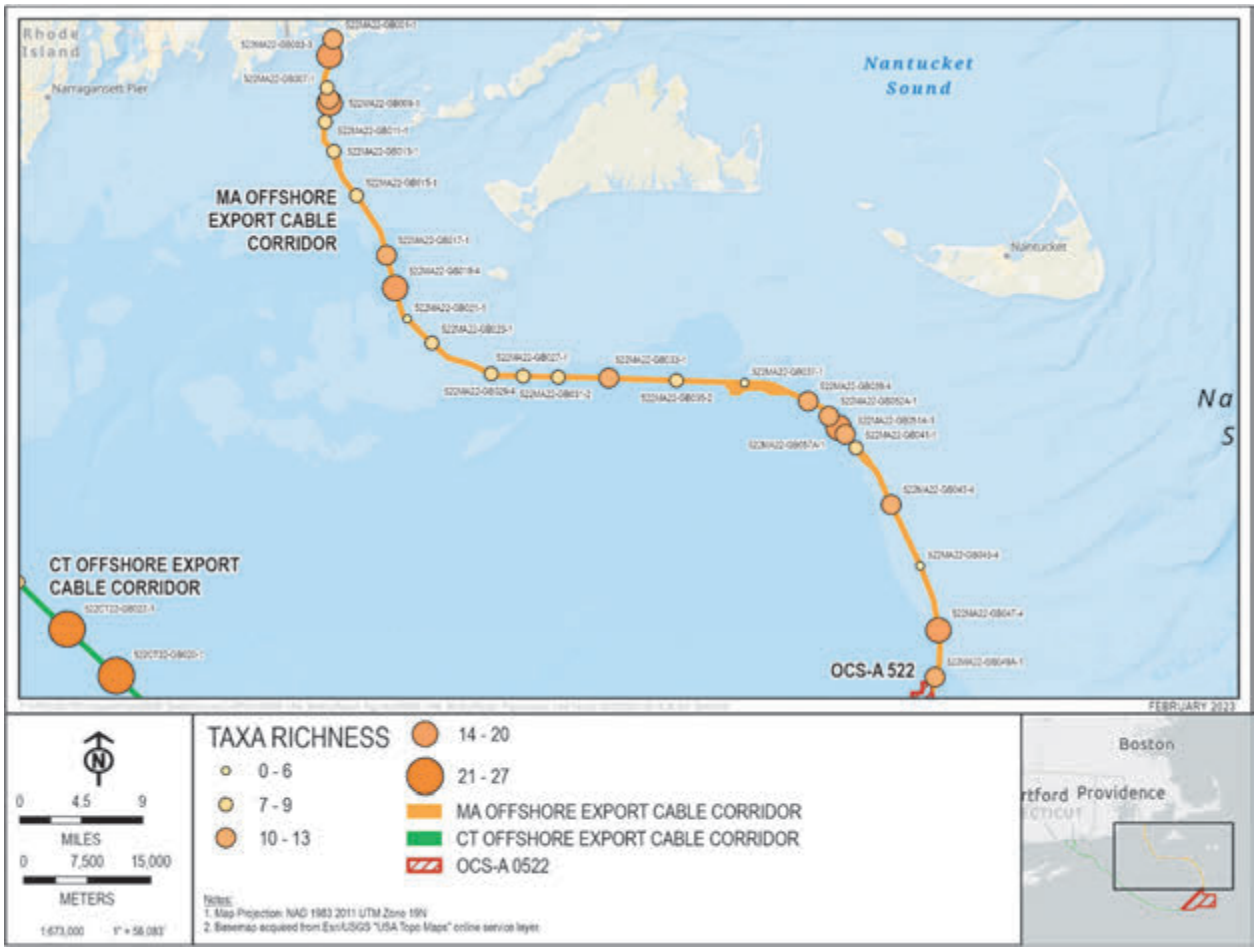


Figure 3.2-3. Massachusetts Offshore Export Cable Corridor Benthic Infaunal Grab Sample Locations by Taxa Richness

Macrofaunal Density

The mean macrofaunal density for samples collected from the Massachusetts Offshore Export Cable Corridor was 13,336 ± 11,764 (mean ± SD) individuals/m^2 (Table 14)

Taxa Richness

Overall, 70 taxa of benthic fauna were observed in the 27 grab samples collected from the Massachusetts Offshore Export Cable Corridor in 2022 (Table 14). Taxa richness per sample ranged from 4 to 19, and mean taxa richness was 10 ± 3.2 (mean ± SD, Table 14). Taxa richness per sample was variable along the Massachusetts Offshore Export Cable Corridor, though highest values were reported in samples collected close to shore, in proximity to the Lease Area, and to the southwest of Nantucket (Figure 3.2-3).
The highest macrofaunal density (43,451 individuals/m^2) was found at sample 522MA22-GB043-4 while macrofaunal density was lowest (1,044 individuals/m^2) at sample 522MA22-GB045-4. Of the 27 samples analyzed, 14 were characterized by densities of 10,000 individuals/m^2 or more (52% of samples). Consistent spatial patterns in total organism density were not found along the Massachusetts Offshore Export Cable Corridor (Figure 3.2-4).

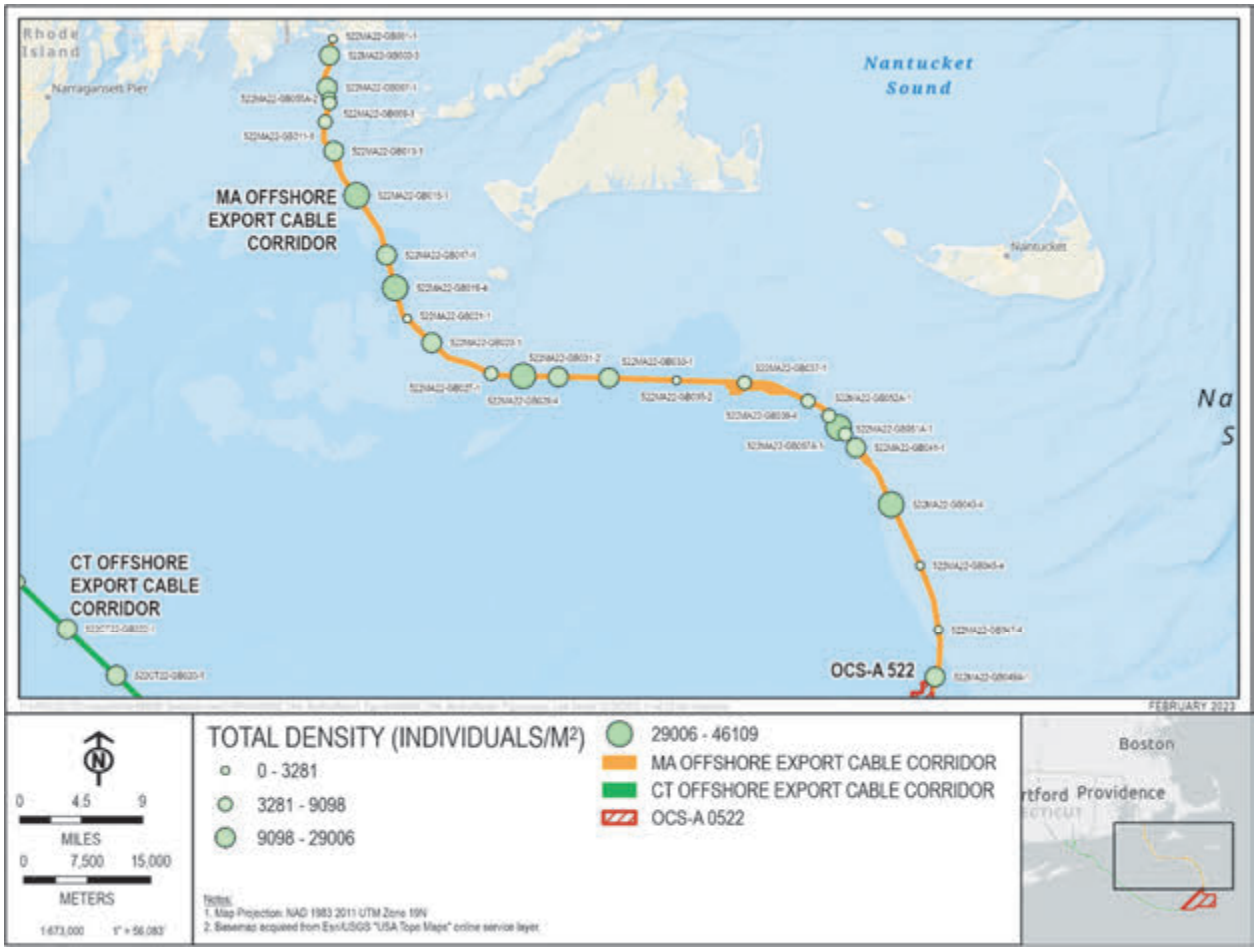


Figure 3.2-4. Massachusetts Offshore Export Cable Corridor Benthic Infaunal Grab Sample Locations by Total Organism Density

Community Composition

The benthic macrofaunal assemblage documented in the analyzed samples consisted of annelids, mollusks, arthropods, nemertean ribbon worms, cnidarians, and echinoderms (Table 14).

The most speciose taxonomic group was annelid worms, which contributed over 58% of the taxa documented in the analyzed samples. Arthropods and mollusks both accounted for approximately 18% of taxa in the Massachusetts Offshore Export Cable Corridor samples. Annelids accounted for the greatest percentage of total organism abundance of any taxa group (over 50%), followed by mollusks and arthropods (approximately 41% and 7%, respectively, Table 14).

The most abundant taxon in Massachusetts area samples was the Atlantic nut clam, which accounted for over 38% of all individuals identified. The polygordiid polychaete was the next most abundant taxa, accounting for more than 13% of all organisms (Table 15).

Table 15. Relative Abundance of Taxa Encountered in Massachusetts Offshore Export Cable Corridor Samples

Scientific Name	Common Name	Relative Abundance (%)	Average Density per Unit Area (#/m^2)
Nucula proxima	Atlantic Nut Clam	38.9	5,182
Polygordius sp.	Polygordiid Polychaete	13.1	1,753
Naididae w/out hair chaetae	Oligochaete Worm	4.5	604
Cirratulidae	Cirratulid Polychaete	4.3	571
Goniadella gracilis	Goniadid Polychaete	3.8	507
Amastigos caperatus	Capitellid Polychaete	3.8	507
Syllidae	Syllid Polychaete	3.5	467
Enchytraeidae	Oligochaete Worm	2.8	377
Ampelisca sp.	Ampeliscid Amphipod	2.8	375
Exogone sp.	Syllid Polychaete	2.2	296
*Includes taxa accounting for ≥ 2% of total abundance			

Common Atlantic slippersnails (*Crepidula fornicata*), which are potentially indicative of hard bottom habitat, were observed in one benthic grab sample from the Massachusetts Offshore Export Cable Corridor. However, no other taxa indicative of sensitive habitats (hard bottom areas, cold water coral reefs, seagrass beds, etc.) were observed in the Massachusetts Offshore Export Cable Corridor benthic grab samples.

The most widespread taxa (i.e., observed in the most samples) were naidid oligochaete worms without hair chaetae, which were present in over 66% of samples collected within the Massachusetts Offshore Export Cable Corridor (18 samples). The polygordiid polychaete *Polygordius* sp., Atlantic nut clams, nephtyid polychaetes, and cirratulid polychaetes were present in at least 44% of samples (12 or more samples, Table 16). Other relatively widely distributed taxa included nemertean ribbon worms, the lumbrinerid polychaete *Scoletoma* sp., and the goniadid polychaete *Goniadella gracilis* (all found in at least 37% of samples). A total of 24 unique taxa (found in only one sample) were present in the 27 infaunal grab samples collected from within the Massachusetts Offshore Export Cable Corridor (accounting for approximately 34% of observed taxa).

Table 16. Most Widespread Taxa Encountered in Massachusetts Offshore Export Cable Corridor Samples

Scientific Name	Common Name	Number of Samples Containing this Taxon
Naididae w/out hair chaetae	Oligochaete Worm	18
Polygordius sp.	Polygordiid Polychaete	16
Nucula proxima	Atlantic Nut Clam	14
Nephtys sp.	Nephtyid Polychaete (Catworm)	14
Cirratulidae	Cirratulid Polychaete	12

Table 16. Most Widespread Taxa Encountered in Massachusetts Offshore Export Cable Corridor Samples (continued)

Scientific Name	Common Name	Number of Samples Containing this Taxon
Nemertea	Nemertean Ribbon Worm	11
Scoletoma sp.	Lumbrinerid Polychaete	10
Goniadella gracilis	Goniadid Polychaete	10
*Includes taxa observed in ≥ 10 samples (≥37% of samples)		

Most of the taxa observed in grab samples collected from the Massachusetts Offshore Export Cable Corridor are typical of soft-sediment habitats. Though some common and widespread organisms in Massachusetts Offshore Export Cable Corridor samples were also abundant in Lease Area samples (*Nucula proxima*, *Ampelisca* sp., see section 3.2.2.1) additional taxa of soft sediment fauna were present in Massachusetts Offshore Export Cable Corridor samples. The polygordiid polychaete *Polygordius sp.* is associated with coarse sandy sediments and is often a dominant member of macrofaunal communities on inner continental shelf waters along the East Coast of the United States (Ramey et al. 2006, Ramey 2008). Cirratulid polychaetes are deposit feeders that reside in soft sediment habitats, and *Scoletoma* sp. are predatory worms which burrow in mud and mixed-bottom debris (Gosner 1978). Catworms (*Nephtys* sp. polychaetes) are also predatory and are found in a variety of soft sediment habitats ranging from mud to coarse sand and shell (Pettibone 1963). The goniadid polychaete *Goniadella gracilis* is also frequently encountered in soft sediment areas (mud, fine to coarse sand, fine gravel) (Pettibone 1963).

The infaunal sampling results align with expectations, given the CMECS habitat classifications for samples collected within the Massachusetts Offshore Export Cable Corridor; of the 27 samples collected in the Massachusetts Offshore Export Cable Corridor, 85% (22 samples) were classified as fine unconsolidated substrates under the CMECS framework, and 15% (4 samples) were classified as coarse unconsolidated substrates. A greater percentage of sampling locations within the Massachusetts Offshore Export Cable Corridor were composed of coarse unconsolidated substrates in than in the Lease Area (see section 4.2.2).

3.2.2.3 Connecticut Offshore Export Cable Corridor

Results of the analysis of benthic grab samples collected from within the Connecticut Offshore Export Cable Corridor in 2022 are presented below and in Appendices D, E, and L. A total of 65 benthic grab samples from the Connecticut Offshore Export Cable Corridor were collected and processed. However, one outlier sample (522CT22-GB048-1) containing a single *Crassinella lunulata* specimen (a taxon present in multiple additional other Connecticut Offshore Export Cable Corridor samples) was excluded from calculation of metrics and subsequent analyses.

Taxa Richness

Overall, 126 taxa of benthic fauna were observed in the 64 grab samples collected from the Connecticut Offshore Export Cable Corridor in 2022 and included in analyses (Table 17). Taxa richness per sample (excluding outlier sample 522CT22-GB048-1) ranged from 2 to 27. Mean taxa richness was 9.9 ± 4.7 (mean ± SD) (Table 17). Taxa richness per sample was variable along

the Connecticut Offshore Export Cable Corridor, but greatest values were generally reported in coastal samples located to the north of Fisher and Plum Islands (Figures 3.2-5 and 3.2-6).

Table 17. Summary of Key Statistics from the Connecticut Offshore Export Cable Corridor Sample Analysis

Statistic	Value
Number of Samples	64[a]
Mean Density m^2 (±1 SD)	8,421 ± 12,143
Mean Taxa Richness (±1 SD)	10 ± 4.7
Total Number of Taxa	126
Number of Taxa Observed by Phylum	
Annelida	56
Arthropoda	36
Chordata	2
Cnidaria	2
Echinodermata	2
Mollusca	27
Nemertea	1
Percent of Total Abundance by Phylum	
Annelida	53.5%
Arthropoda	31.0%
Chordata	0.1%
Cnidaria	0.2%
Echinodermata	2.7%
Mollusca	11.8%
Nemertea	0.8%

[a] 65 samples were collected and processed, metrics presented above were calculated after exclusion outlier sample 522CT22-GB048-1

*All metrics calculated after taxonomic ambiguity in the dataset was resolved using the RPMC-G method described in Cuffney et al. (2007)

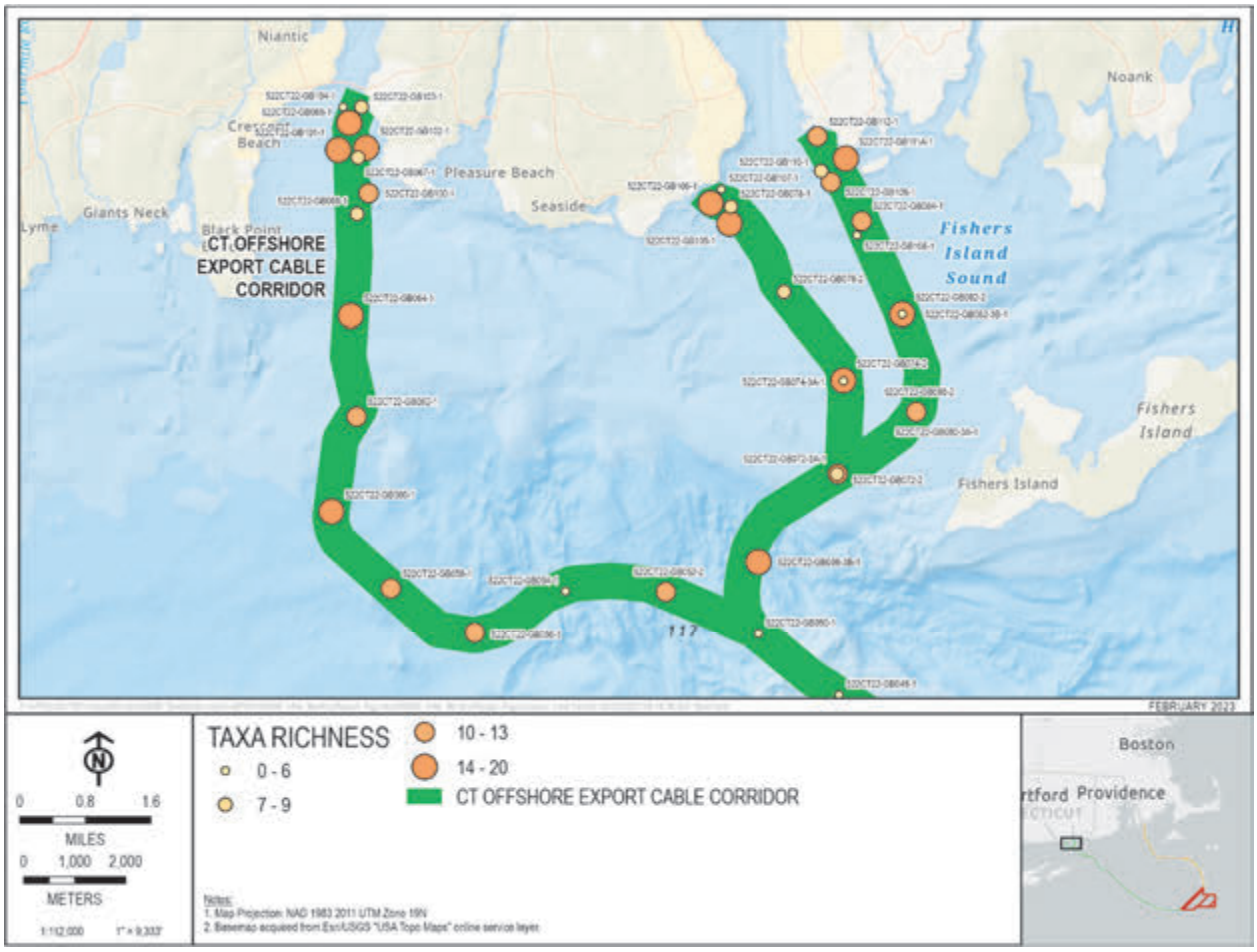


Figure 3.2-5. Connecticut Offshore Export Cable Corridor (North) Benthic Infaunal Grab Sample Locations by Taxa Richness

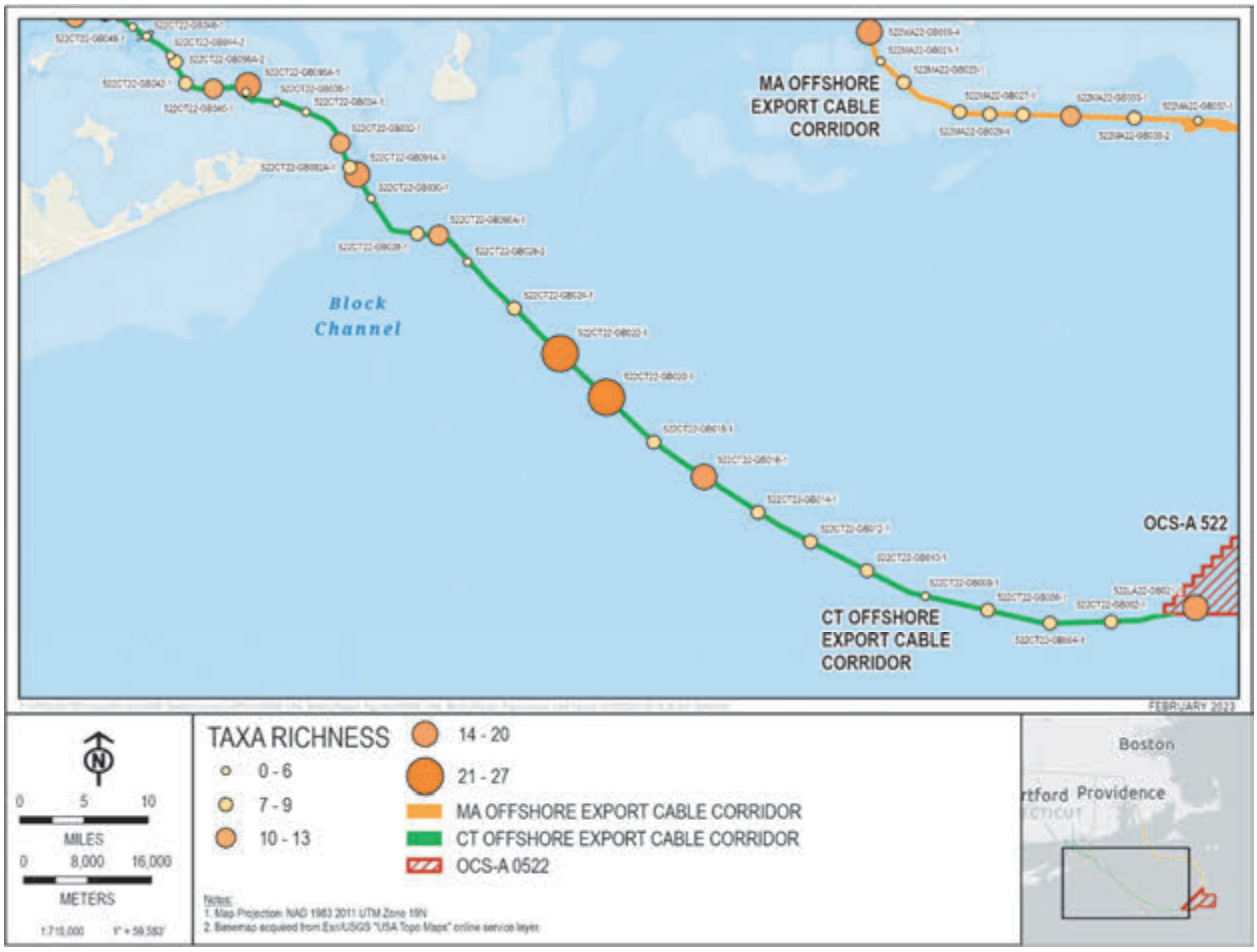


Figure 3.2-6. Connecticut Offshore Export Cable Corridor (South) Benthic Infaunal Grab Sample Locations by Taxa Richness

Macrofaunal Density

The mean macrofaunal density for samples collected from the Connecticut Offshore Export Cable Corridor was 8,421 ± 12,143 (mean ± SD) individuals/m^2 (Table 17). The highest macrofaunal density (82,117 individuals/m^2) was found at sample 522CT22-GB092A-1, while macrofaunal density was lowest (216 individuals/m^2) at sample 522CT22-GB034-1 (note that sample 522CT22-GB048-1 was 130 individuals/m^2, but this sample was excluded from analyses). Of the 64 samples analyzed, 15 were characterized by densities of 10,000 individuals/m^2 or more (23 % of samples). Consistent spatial patterns in total organism density were not observed along the Connecticut Offshore Export Cable Corridor(Figures 3.2-7 and 3.2-8).

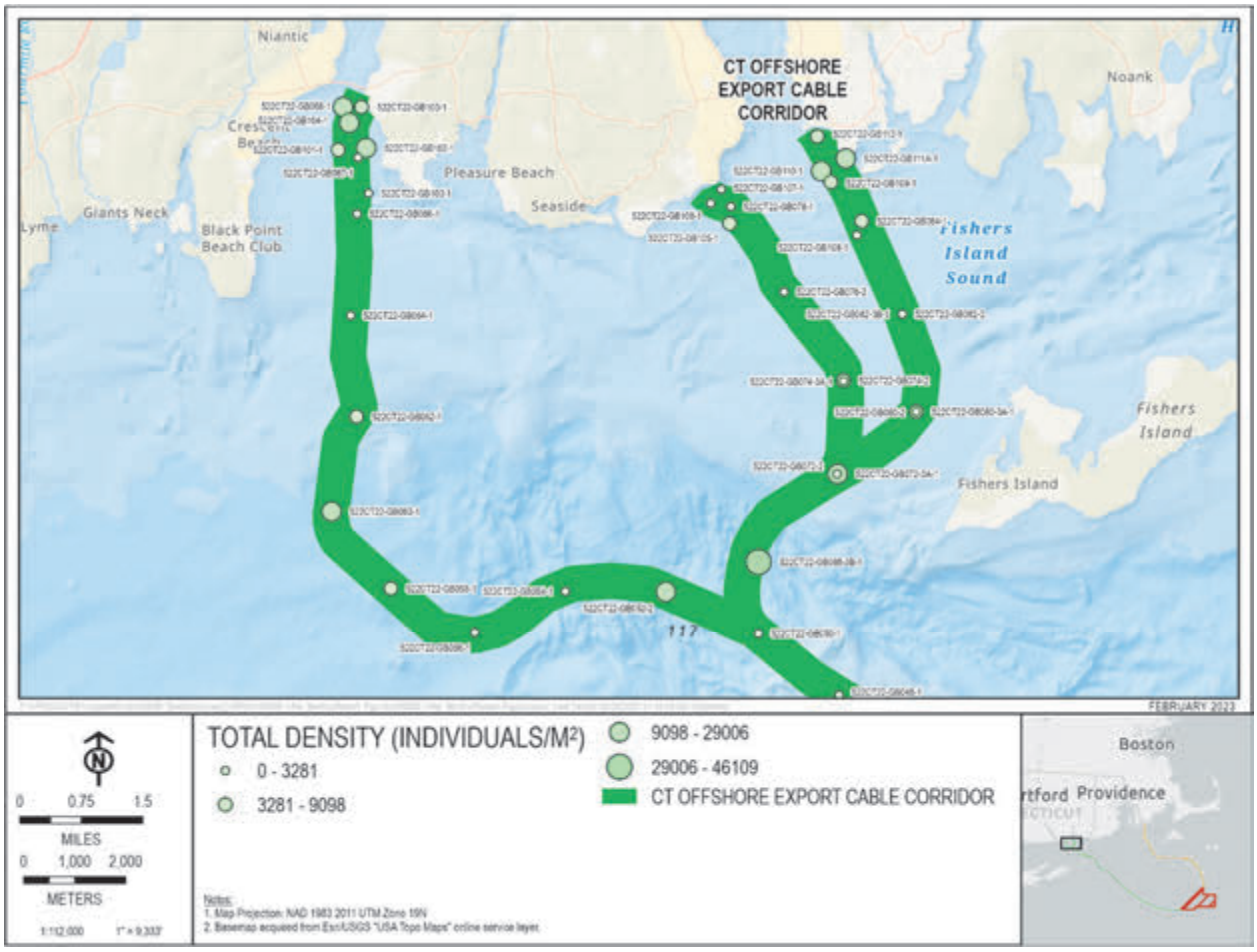


Figure 3.2-7. Connecticut Offshore Export Cable Corridor (North) Benthic Infaunal Grab Sample Locations by Total Organism Density

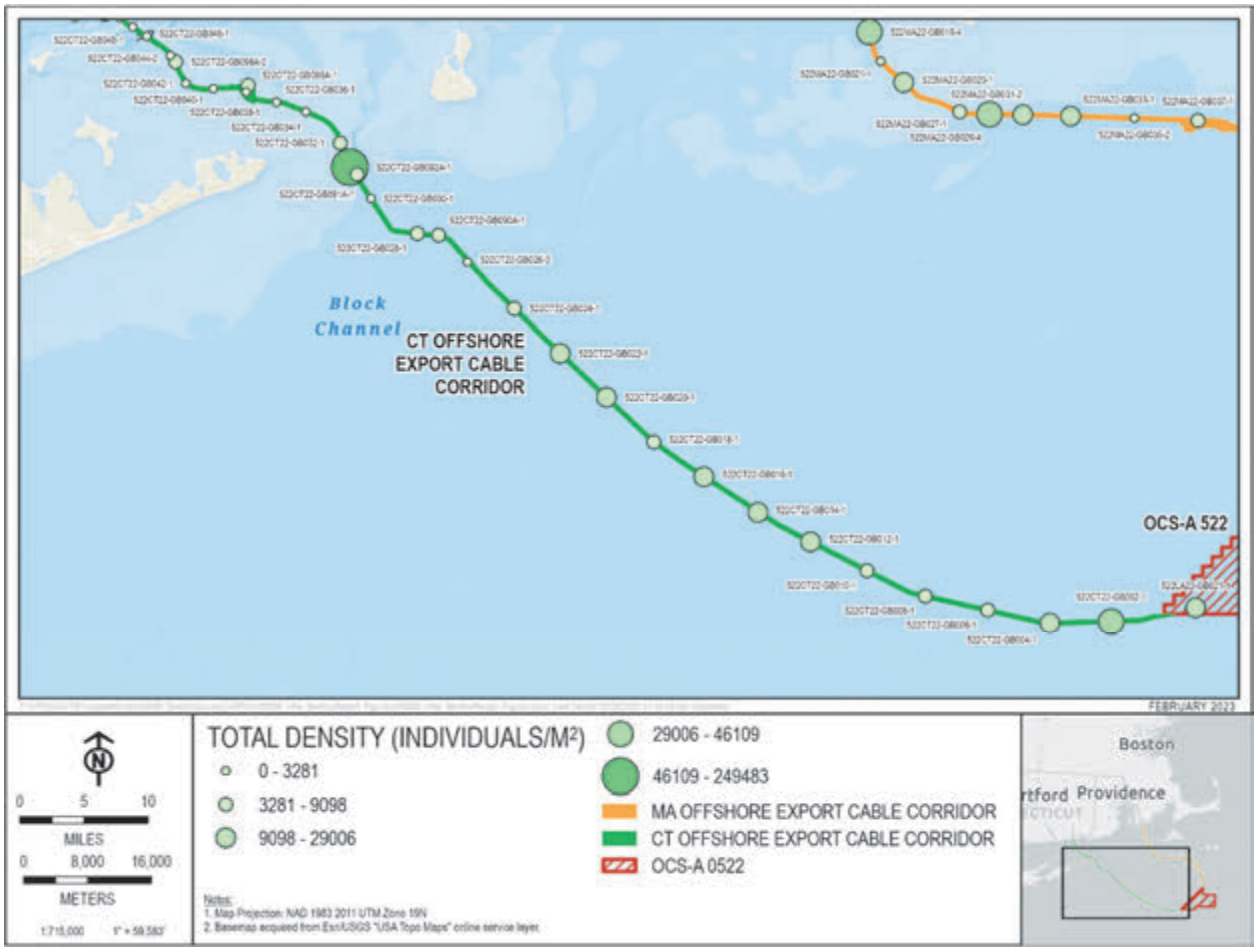


Figure 3.2-8. Connecticut Offshore Export Cable Corridor (South) Benthic Infaunal Grab Sample Locations by Total Organism Density

Community Composition

The benthic macrofaunal assemblage documented in the analyzed samples consisted of annelids, arthropods, mollusks, echinoderms, nemertean ribbon worms, cnidarians, and chordates (Table 17).

The most speciose taxonomic group was annelid worms, which contributed over 44% of the taxa documented in the analyzed samples. Arthropods and mollusks accounted for approximately 29% and 21% of taxa in the Connecticut Offshore Export Cable Corridor samples, respectively. Annelids accounted for the greatest percentage of total organism abundance of any taxa group (over 53%), followed by arthropods and mollusks (approximately 31% and 11%, respectively, Table 17).

The most abundant taxon in Connecticut area samples was the ampeliscid amphipod (*Ampelisca sp.)*, which accounted for over 22% of all individuals identified. The polygordiid polychaete was the next most abundant taxa, accounting for more than 15% of all organisms (Table 18).

Table 18. Relative Abundance of Taxa Encountered in Connecticut Offshore Export Cable Corridor Samples

Scientific Name	Common Name	Relative Abundance (%)	Average Density per Unit Area (#/m^2)
Ampelisca sp.	Ampeliscid Amphipod	22.3	1,879
Polygordius sp.	Polygordiid Polychaete	15.6	1,318
Cirratulidae	Cirratulid Polychaete	5.1	428
Naididae w/out hair chaetae	Oligochaete Worm	4.2	350
Crepidula fornicata	Atlantic Slipper Snail	3.5	298
Terebellidae	Terenellid Polychaete	3.4	288
Crassinella lunulata	Lunate Crassinella	3.3	274
Scoletoma sp.	Lumbrinerid Polychaete	2.4	201
Amphioplus abditus	Amphiuridae Brittle Star	2.4	200
Aricidea sp.	Paraonid Polychaete	2.3	198
Nephtys sp.	Nephtyid Polychaete (Catworm)	2.1	178
*Includes taxa accounting for ≥ 2% of total abundance			

Common Atlantic slippersnails (*Crepidula fornicata*), which are potentially indicative of hard bottom habitat, were observed in seven benthic grab samples. However, no other taxa indicative of sensitive habitats (hard bottom areas, cold water coral reefs, seagrass beds, etc.) were observed in the benthic grab samples.

The most widespread taxon (i.e., observed in the most samples) was the ampeliscid amphipod *Ampelisca sp.* which was present in over 44% of samples collected within the Connecticut Offshore Export Cable Corridor (29 samples, Table 19). Cirratulid polychaetes, naidid oligochaete worms without hair chaetae, and the nephtyid polychaete *Nephtys sp*. were present in at least 35% of samples (23 or more samples, Table 19). Other relatively widely distributed taxa included the lumbrinerid polychaete *Scoletoma sp*., the polygordiid polychaete *Polygordius sp.,* and the paraonid polychaete *Aricidea sp.* (all found in at least 24% of samples, Table 19). A total of 43 unique taxa (found in only one sample) were present in the 64 analyzed infaunal grab samples collected from within the Connecticut Offshore Export Cable Corridor (approximately 34% of observed taxa). Note that one outlier sample, 522CT22-GB048-1, was excluded from analyses.

Table 19. Most Widespread Taxa Encountered in Connecticut Offshore Export Cable Corridor Samples

Scientific Name	Common Name	Number of Samples Containing this Taxon
Ampelisca sp.	Ampeliscid Amphipod	29
Cirratulidae	Cirratulid Polychaete	26
Naididae w/out hair chaetae	Oligochaete Worm	24
Nephtys sp.	Nephtyid Polychaete (Catworm)	23
Scoletoma sp.	Lumbrinerid Polychaete	20

Table 19. Most Widespread Taxa Encountered in Connecticut Offshore Export Cable Corridor Samples (continued)

Scientific Name	Common Name	Number of Samples Containing this Taxon
Polygordius sp.	Polygordiid Polychaete	20
Aricidea sp.	Paraonid Polychaete	16
*Includes taxa observed in ≥ 16 samples (≥25% of samples)		

Most of the taxa observed in grab samples collected from the Connecticut Offshore Export Cable Corridor were similar to those found in samples collected from the Lease Area or the Massachusetts Offshore Export Cable Corridor and are typical of soft-sediment habitats. In addition to taxa described in Sections 3.2.2.1 (*Ampelisca* sp.) and 3.2.2.2 (*Polygordius* sp., Cirratulidae, *Nephtys* sp., *Scoletoma* sp.) above, other common or widespread fauna present in Connecticut Offshore Export Cable Corridor samples included terebellid polychaetes, the brittle star *Amphioplus abditus*, and the Common Atlantic slippersnail (*Crepidula fornicata*). Terebellid polychaetes are deposit feeders that form burrows in soft sediments and gather particulate matter from the sediment surface (Gosner 1978). *Amphioplus abditus* is a small brittle star that burrows in muddy sediments (Gosner 1978). Common Atlantic slippersnails (*Crepidula fornicata*), were more abundant and widespread in Connecticut Offshore Export Cable Corridor samples compared to Lease Area and Massachusetts Offshore Export Cable Corridor samples. This species is often found on low energy sand or gravel sediments where biogenic substrates (shell substrates) are present (CIESM 2003).

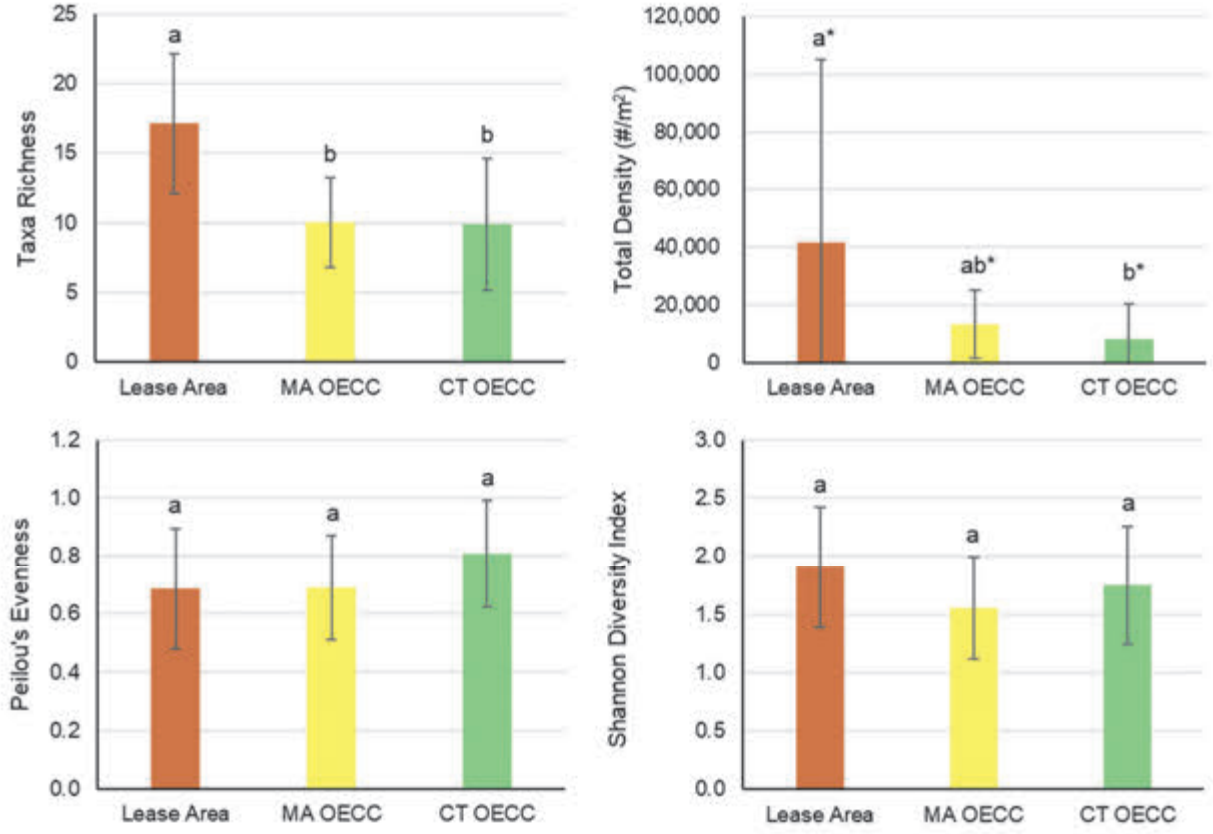
The infaunal sampling results align with expectations, given the CMECS habitat classifications for samples collected within the Connecticut Offshore Export Cable Corridor; of the 65 samples collected in the Connecticut Offshore Export Cable Corridor, 71% (46 samples) were classified as fine unconsolidated substrates under the CMECS framework, and 29% (19 samples) were classified as coarse unconsolidated substrates. Compared to Lease Area and Massachusetts Offshore Export Cable Corridor samples, a higher percentage of Connecticut Offshore Export Cable Corridor samples were classified as coarse unconsolidated substrates (see above and Sections 4.2.1 and 4.2.2).

3.2.3 Univariate and Multivariate Analysis

As described in sections 2.4.3 and 2.4.4 above, univariate and multivariate analyses were performed to examine the benthic macrofaunal community in the collected grab samples. Samples were examined based on factors including project area (Lease Area, Connecticut Offshore Export Cable Corridor, and Massachusetts Offshore Export Cable Corridor), sample depth (<40m depth and >40m depth), sample location (nearshore and offshore), and CMECS substrate group classification. Note that a total of 106 samples were collected and processed, but one outlier sample collected from the Connecticut Offshore Export Cable Corridor (522CT22-GB048-1) was excluded from analyses (see section 3.2.2.3). See Appendix M for univariate statistical results and multivariate statistical results.

3.2.3.1 Project Area

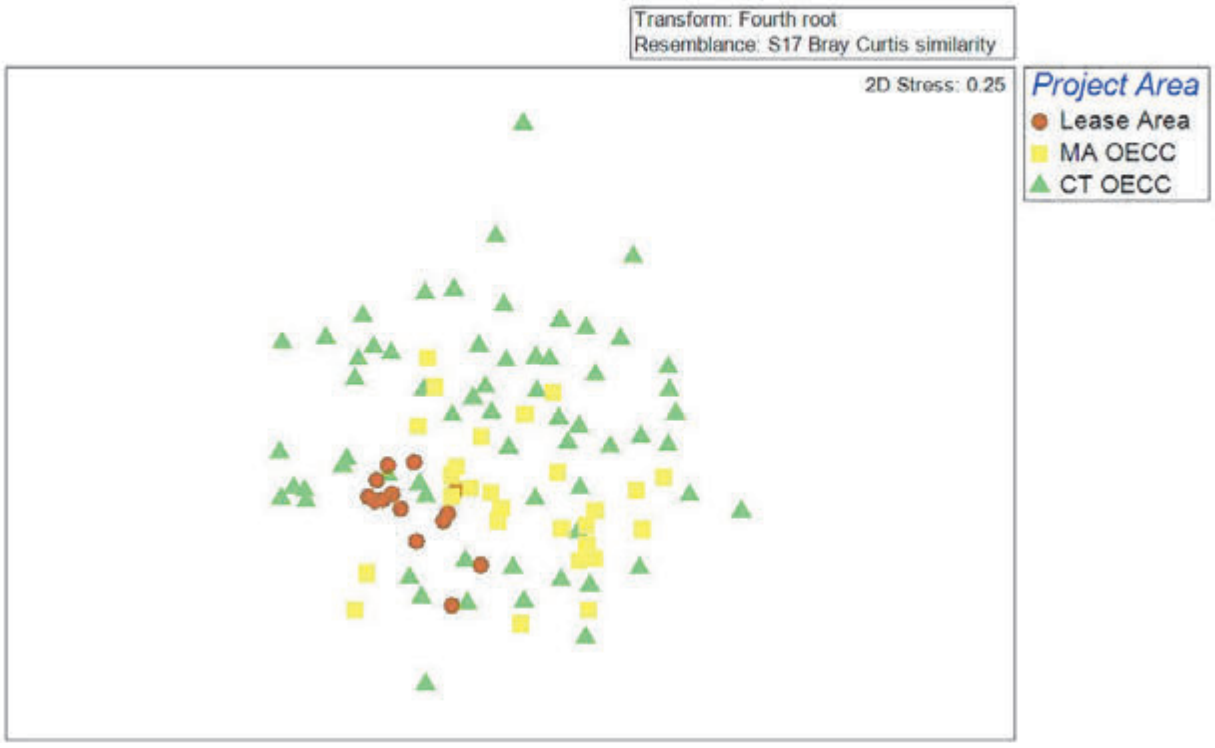
Of the 105 samples analyzed, 14 were collected from the Lease Area, 27 were collected from the Massachusetts Offshore Export Cable Corridor, and 64 were collected from the Connecticut Offshore Export Cable Corridor. Average taxa richness was significantly greater in Lease Area samples (17.1 ± 5.00, mean ± SD) than in Massachusetts Offshore Export Cable Corridor or Connecticut Offshore Export Cable Corridor samples (10.0 ± 3.20 and 9.9 ± 4.7, respectively, ANOVA, F=16.05, p<0.001). Similarly, average organism density was significantly greater in Lease Area samples (41,664 ± 63,399 individuals/m^2), than in Massachusetts Offshore Export Cable Corridor samples (8,421 ± 12,142 individuals/m^2, data log-transformed prior to analyses to better meet assumption of normality, ANOVA, F=10.53, p<0.0001). However, average Pielou's evenness and Shannon diversity did not differ significantly between samples collected in different project areas (ANOVAs, F=5.14, p=0.007, all pairwise comparison p>0.05, and F=2.61, p=0.08, Figure 3.2-9).



Average taxa richness, total density, evenness, and diversity of benthic grab samples collected from the Lease area (n = 14), CT OECC (n = 64), and MA OECC (n =27). Average taxa richness was significantly greater in Lease Area samples than in CT OECC and MA OECC samples, and average total density was greater in Lease Area samples than in CT OECC samples (*density data log-transformed prior to analysis to better meet assumption of normality, ANOVAs, all p <0.05). However, average Pielou's Evenness and Shannon diversity did not differ significantly between Lease Area, CT OECC, and MA OECC samples (ANOVAs, all pairwise comparisons p>0.05). Error bars denote standard deviation.

Figure 3.2-9. Univariate Comparisons of Benthic Infaunal Community Metrics by Project Area

Though univariate analyses indicated some differences in taxa richness and organism density, most notably between Lease Area samples and Massachusetts Offshore Export Cable Corridor samples, overall benthic community composition did not differ significantly between project areas (ANOSIM, p=0.68, Global R=-0.018). This lack of separation between project areas is illustrated by the NMDS ordination, which depicts a lack of consistent separation of samples by project area (Figure 3.2-10)

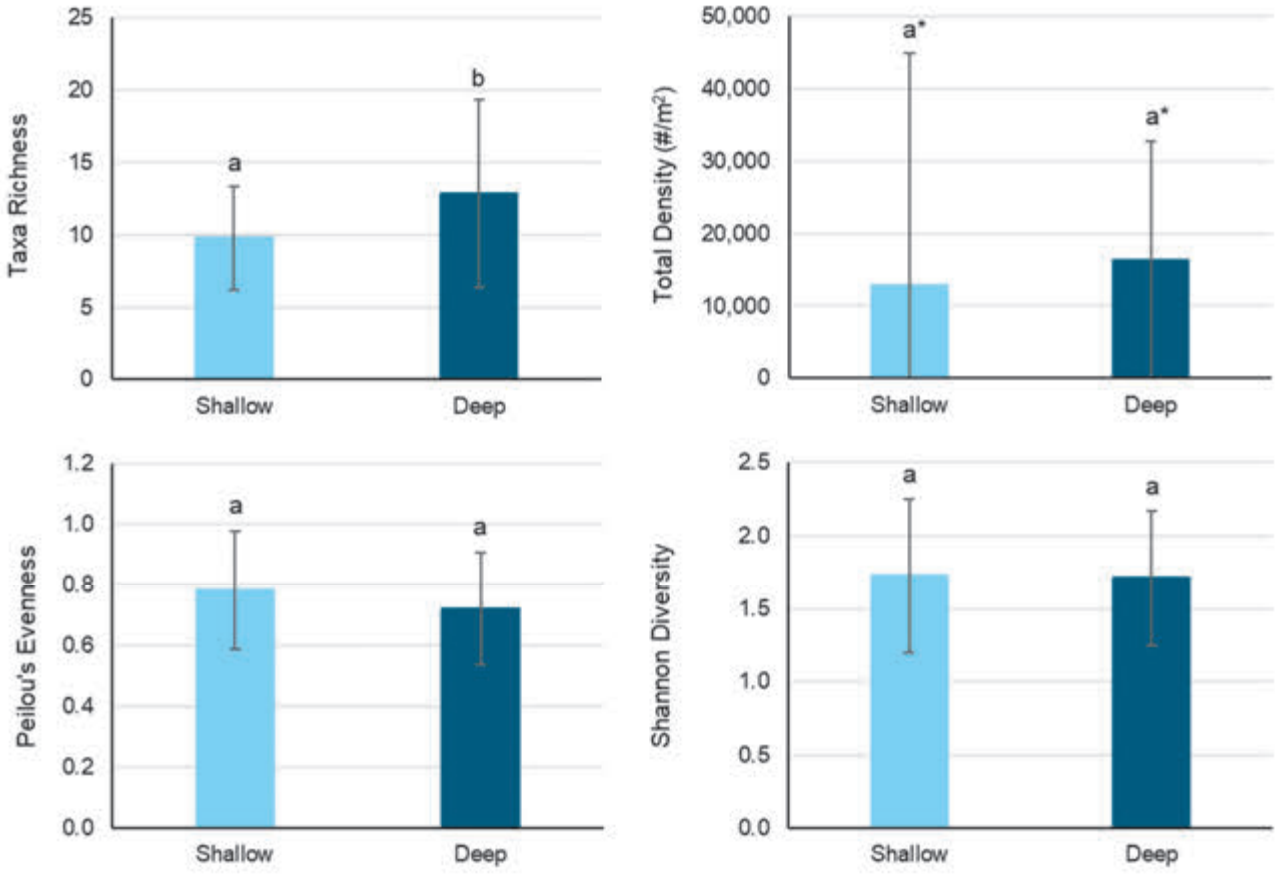


Community composition did not differ significantly between sample areas (ANOSIM, p=0.68, Global R=-0.018).

Figure 3.2-10. NMDS Ordination of Community Composition in Benthic Infaunal Samples, by Project Area

3.2.3.2 Sample Depth

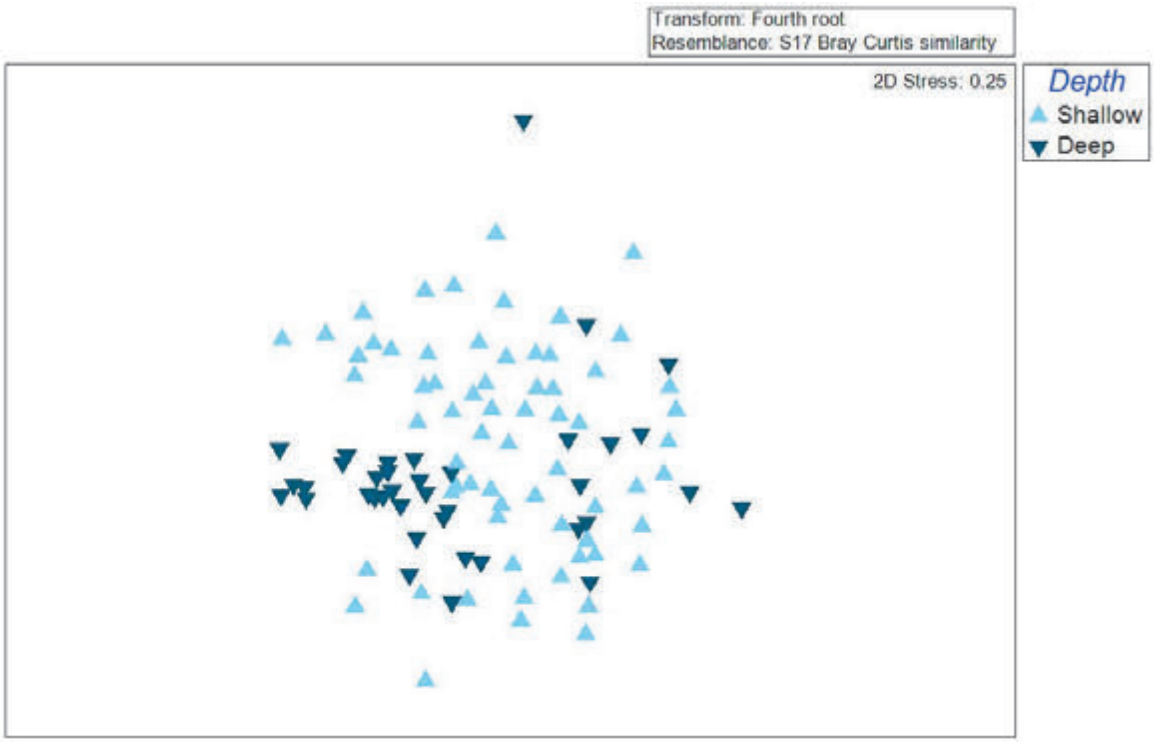
Of the 105 samples analyzed, 67 were collected from water depths of less than 40 meters (shallow), and 38 were collected from water depths equal to or greater than 40 meters (deep). Average taxa richness was significantly greater in deep samples (13.8 ± 6.5, mean ± SD) than in shallow samples (9.8 ± 3.5, T-test, t=-3.09, p=0.003). Average organism density was also significantly greater in deep samples (16,277 ± 16,548 individuals/m^2) than in shallow samples (12,892 ± 31,994 individuals/m^2, density data log-transformed prior to analyses to better meet assumption of normality, t-test, t=-2.06, p=0.04). However, average Pielou's evenness and average Shannon diversity did not differ significantly between deep and shallow samples (t-tests, all p > 0.05, Figure 3.2-11).



Average taxa richness was significantly greater in samples collected from deep (> 40 m, n =38) areas than in samples collected from shallow (< 40 m, n = 67) areas (ANOVA, p<0.02). However, average total density, Pielou's Evenness and Shannon diversity did not differ significantly between shallow and deep samples (*density data log-transformed prior to analysis to better meet assumption of normality, ANOVAs, all p>0.05). Error bars denote standard deviation.

Figure 3.2-11. Univariate Comparisons of Benthic Infaunal Community Metrics by Sample Depth

Multivariate analyses indicate that benthic community composition differed significantly between deep and shallow samples, though the effect of depth category was small (ANOSIM, p=0.001, but Global R value low at 0.129). NMDS ordination illustrates some separation between samples based on depth categorization (Figure 3.2-12). Taxa most responsible for differences between deep and shallow sites were the ampeliscid amphipod *Ampelisca* sp. and the Atlantic nut clam (*Nucula proxima*.), which was generally more abundant in deep samples, and the polygordiid polychaete *Polygordius* sp., which was generally more abundant in shallow samples (SIMPER, each taxon contributed over 3.5% of the total dissimilarity between deep and shallow sample groupings).

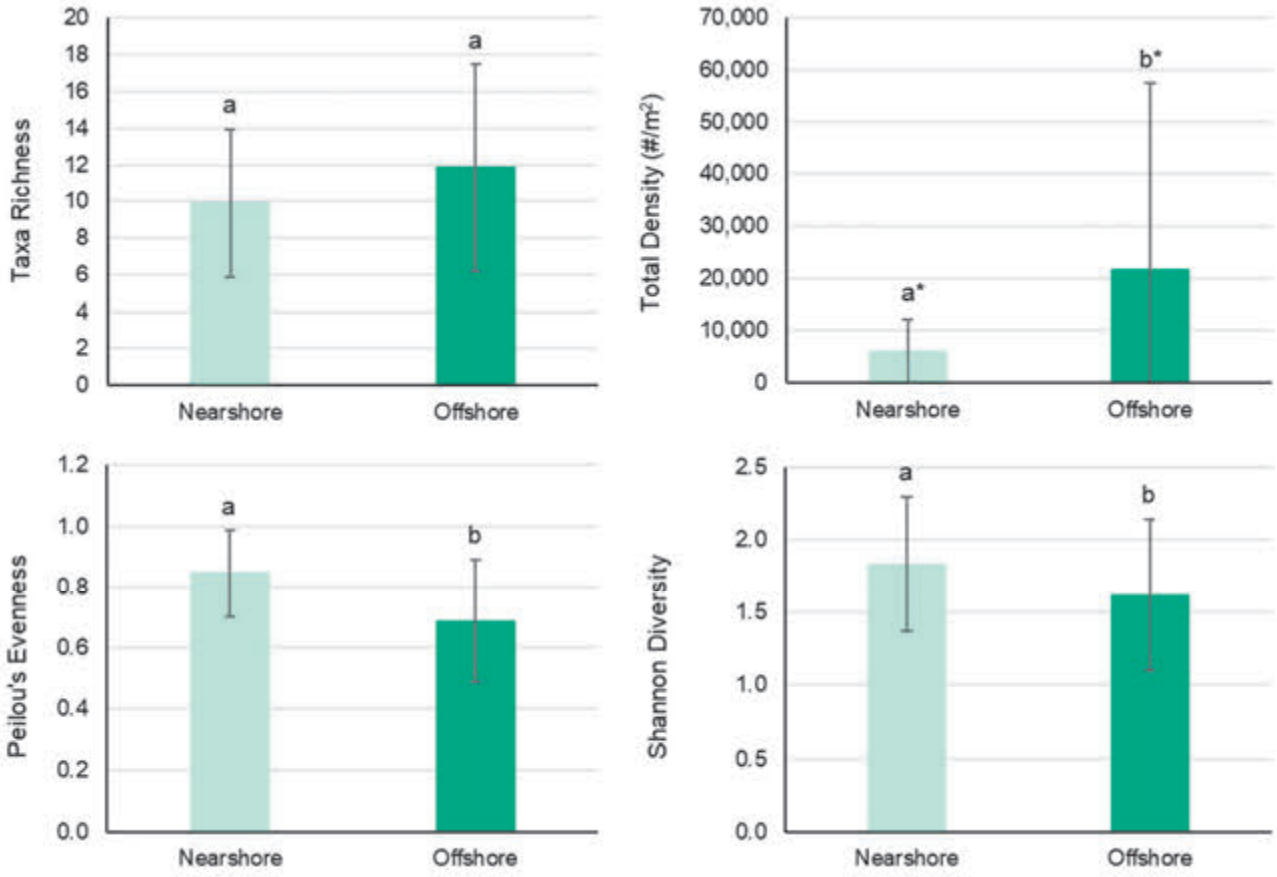


Though community composition differed significantly between deep (>40 m) and shallow (<40 m) samples (ANOSIM, P=0.001), the effect of sample depth category on community composition was small (Global R=0.129).

Figure 3.2-12. NMDS Ordination of Community Composition in Benthic Infaunal Samples, by Sample Depth

3.2.3.3 Nearshore Offshore

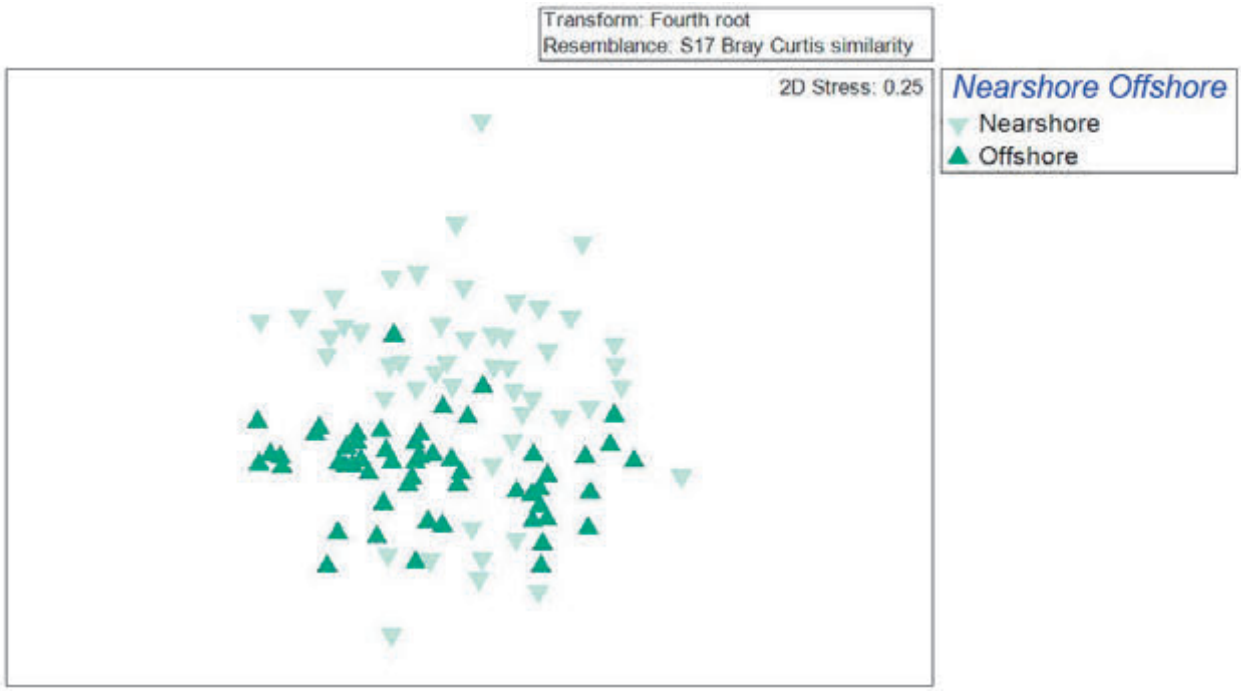
Of the 105 samples analyzed, 50 were collected within state waters (nearshore), and 55 were collected from federal waters (offshore). Though average taxa richness did not differ significantly between nearshore and offshore samples (t-test, P=0.051), total organism density was significantly greater in offshore samples (21,506 ± 35, 912 individuals/m^2) than in nearshore samples (5,989 ± 6,243, t-tests, t=--5.11, p<0.001, Figure 3.2-13). Average Pielou's evenness and Shannon diversity were significantly greater in nearshore samples (0.84 ± 0.14 and 1.83 ± 0.46, respectively) than in offshore samples (0.69 ± 0.20 and 1.62 ±0.52, respectively, t-test, t=3.97, p=0.0002).



Average taxa richness did not differ significantly between samples collected from offshore areas (federal waters, n=55) and samples collected from nearshore areas (state waters, n=50, ANOVA, P>0.05). Average density was significantly greater in offshore samples than nearshore samples (*density data log-transformed prior to analysis to better meet assumption of normality, ANOVA, p<0.001). However, average Pielou's evenness and Shannon diversity was greater in nearshore samples than in offshore samples (ANOVA, all p<0.03). Error bars denote standard deviation.

Figure 3.2-13. Univariate Comparisons of Benthic Infaunal Community Metrics by Nearshore and Offshore Sample Locations

As illustrated by NMDS ordination, multivariate analyses indicate that benthic community composition differed significantly between nearshore and offshore samples (ANOSIM, p=0.001, Global R=0.25, Figure 3.2-14). The taxa most responsible for differences between deep and shallow samples were the ampeliscid amphipod *Ampelisca* sp., the Atlantic nut clam, the polygordiid polychaete *Polygordius* sp., and Naidid oligochaete worms without hair chaetae, which were all generally more abundant in offshore samples than nearshore samples (each taxon contributed over 3.4% to overall differences between nearshore and offshore communities).

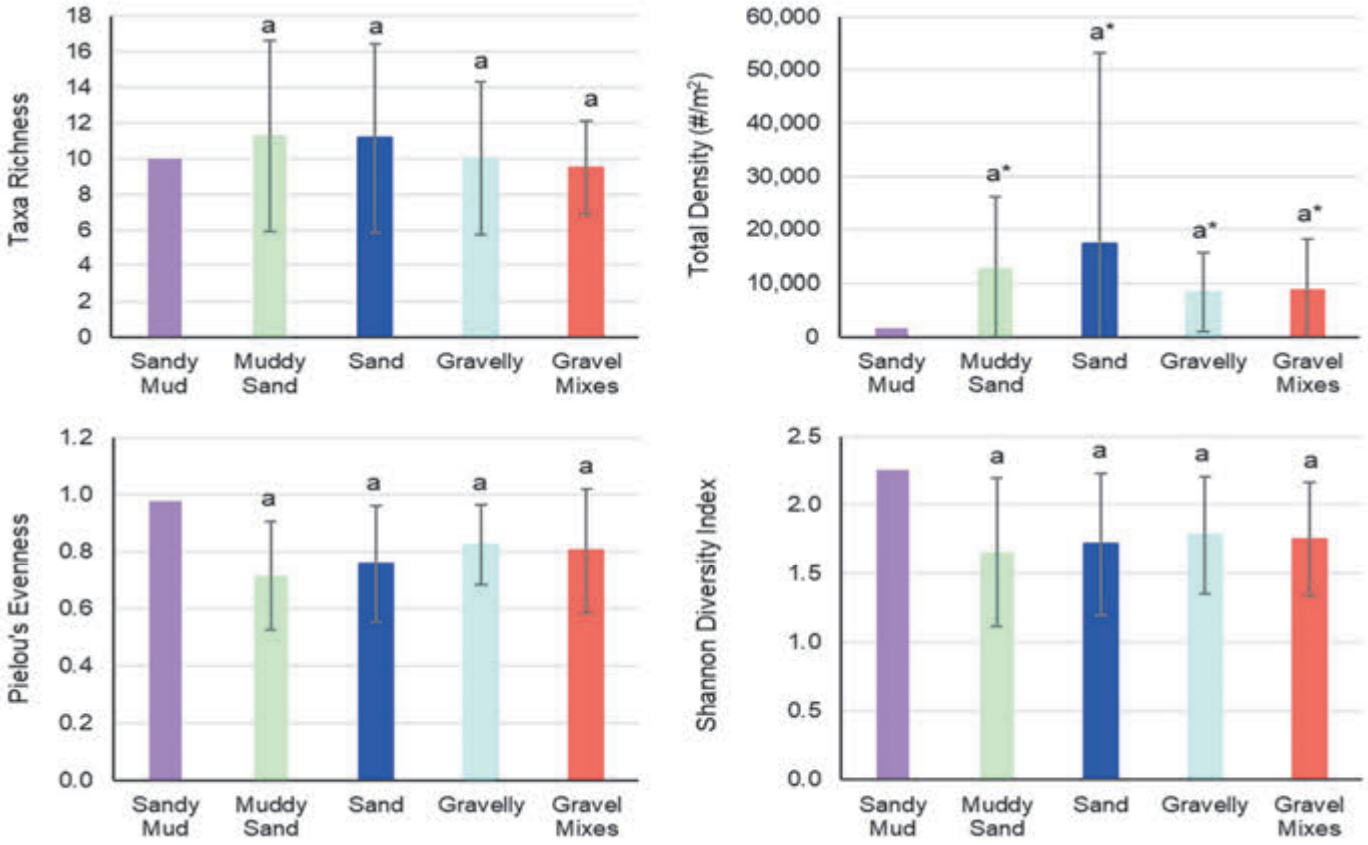


Community composition differed significantly between nearshore (state waters) and offshore (federal waters) samples (ANOSIM, P=0.001, Global R=0.25).

Figure 3.2-14. NMDS Ordination of Community Composition in Benthic Infaunal Samples, by Nearshore and Offshore Sample Locations

3.2.3.4 CMECS Substrate Group

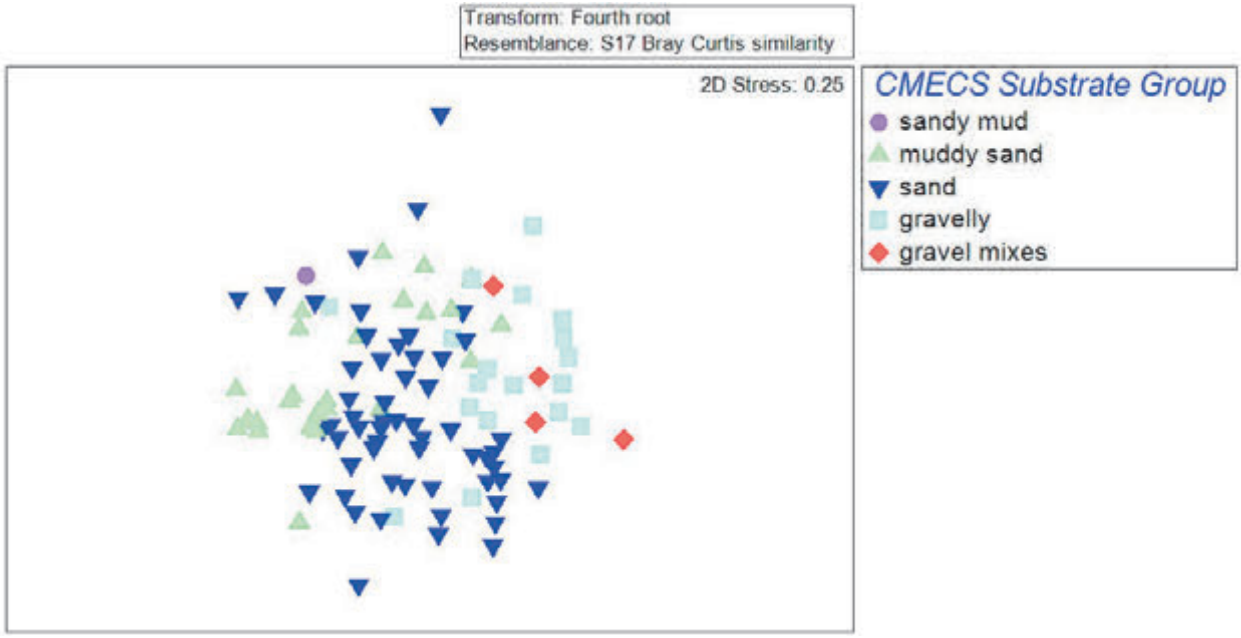
The benthic infaunal grab samples were collected from sandy mud (n=1), muddy sand (n=25), sand (n=56), gravelly (n=19), and gravel mixes (n=4) substrate groups. The one sandy mud sample was excluded from univariate analyses as no comparison of means within this substrate group was possible. No significant differences in average taxa richness, organism density, Pielou's evenness, or Shannon diversity were present between substrate groups (ANOVAs, all $p>0.05$, Figure 3.2-15).



No significant differences in taxa richness, total density, Pielou's evenness, or Shannon diversity were present between muddy sand (n = 25), sand (n = 56), gravelly (n = 19), or gravel mixes (n = 4) substrate groups (*density data log-transformed prior to analysis to better meet assumption of normality, ANOVAs, all p>0.05. Only one sample was classified as sandy mud, so this substrate group was excluded from univariate statistical comparisons. Error bars denote standard deviation.

Figure 3.2-15. Univariate Comparisons of Benthic Infaunal Community Metrics by CMECS Substrate Group

However, multivariate analyses indicate that benthic community composition in infaunal samples differed significantly between CMECS substrate groups (ANOSIM, p=0.001, global R=0.269, Figure 3.2-16). Significant pairwise differences existed between muddy sand and all other substrate groups except sandy mud (note that the sample size for sandy mud substrates was one), between sand and gravelly substrates, and between sand and gravel mixes. The magnitude of separation between groups was greatest (R values were highest) between muddy sand and gravel mixes (p=0.001, R=0.643), muddy sand and gravelly (p=0.001, R=0.437) and between sand and gravel mixes (p=0.013, R=0.423).



Pairwise comparisons indicate that significant differences in community composition exist between all substrate groups except between gravelly and gravel mixes and between sandy mud and all other substrate groups (ANOSIM, p=0.001, Global R=0.269). Community differences were greatest between muddy sand and gravel mixes, muddy sand and gravelly substrates, and sand and gravel mixes (R=0.643, 0.437, and 0.423, respectively).

Figure 3.2-16. NMDS Ordination of Community Composition in Benthic Infaunal Samples, by CMECS Substrate Group

SIMPER analysis determined that benthic communities in muddy sand habitats generally contained greater abundances of the ampeliscid amphipod *Ampelisca* sp, than communities in sand, gravelly, or gravel mixes habitats (this taxon contributed over 6.1% to the total dissimilarity between communities in all pairwise comparisons, Figure 3.2-17). Muddy sand habitats also had lower abundances of the bivalve *Crassinella lunulata,* the Common Atlantic slippersnail (*Crepidula fornicata*), and cirratulid polychaetes, than were present in gravel mixes habitats, and lower abundances of cirratulid polychaetes and naidid oligochaetes without hair chaetae, than were present in gravelly habitats (each taxon accounting for over 3.2% of total dissimilarity).

Similarly, samples collected from sand habitats tended to have higher abundances of the polygordiid polychaete *Polygordius* sp. than were present in either gravel mixes or gravelly substrates (Figure 3.2-17). Other taxa were generally more abundant in gravel mixes than sand substrates, including *Crassinella lunulata*, the Common Atlantic slippersnail (*Crepidula fornicata*), and syllid and ampharetid polychaetes (Figure 3.2-17). Taxa including the ampeliscid amphipod *Ampelisca* sp., Atlantic nut clams, and naidid oligochaete worms without hair chetae were, on average, more abundant in sand substrates than in gravelly or gravel mixes substrate (each taxa discussed above contributed over 3% to total dissimilarity between the sample groups).

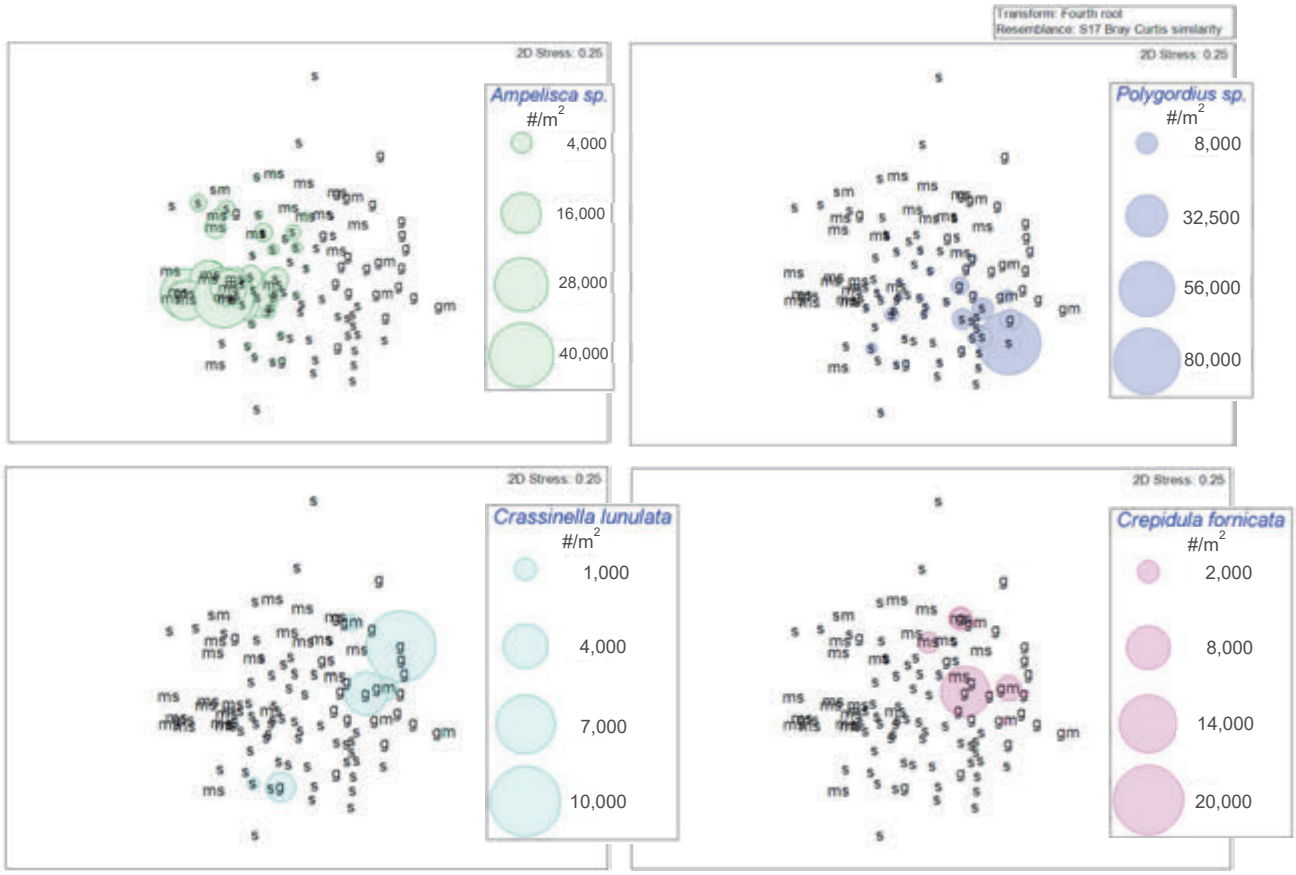


Figure 3.2-17. NMDS Ordination of Community Composition in Benthic Infauna Samples, by Species Most Responsible for Substrate Group Community Differences.

4.0 CMECS Classifications

4.1 Video Transects

Benthic habitats in the 192 analyzed video transects were classified in accordance with NMFS 2021 guidelines, defined in "Updated Recommendations for Mapping Fish Habitat" guidance dated March 29, 2021. This guidance modifies the Coastal and Marine Ecological Classification Standard (CMECS) for use in classifying benthic habitats for offshore wind projects. A simplified graphic depicting the NMFS-modified CMECS approach is presented as a decision tree in Figures 4.1-1 and 4.1-2. Classifications were determined based on visual observations in the transect videos.

4.1.1 Lease Area

The most characterized bottom type seen in the Lease Area was Muddy Sand, found in 1,923 m out of the approximately 5,513 m total of Lease Area transects. Muddy Sand was also frequently characterized. The Lease Area transects consisted of soft bottom substrate throughout the entire project area, other than the 327 meters of Shell Hash. These results are presented in Table 20.

Table 20. Summary of NMFS-Modified CMECS Classifications of Lease Area Transects

CMECS Substrate Group	% of Total Lease Area Transect Length*	# of Transects Observed
Muddy Sand	34.88%	10
Sandy Mud	33.99%	7
Sand	16.63%	4
Shell	5.93%	9
*Total may not add up to 100% due to poor visibility in some segments. These segments remained uncharacterized.		

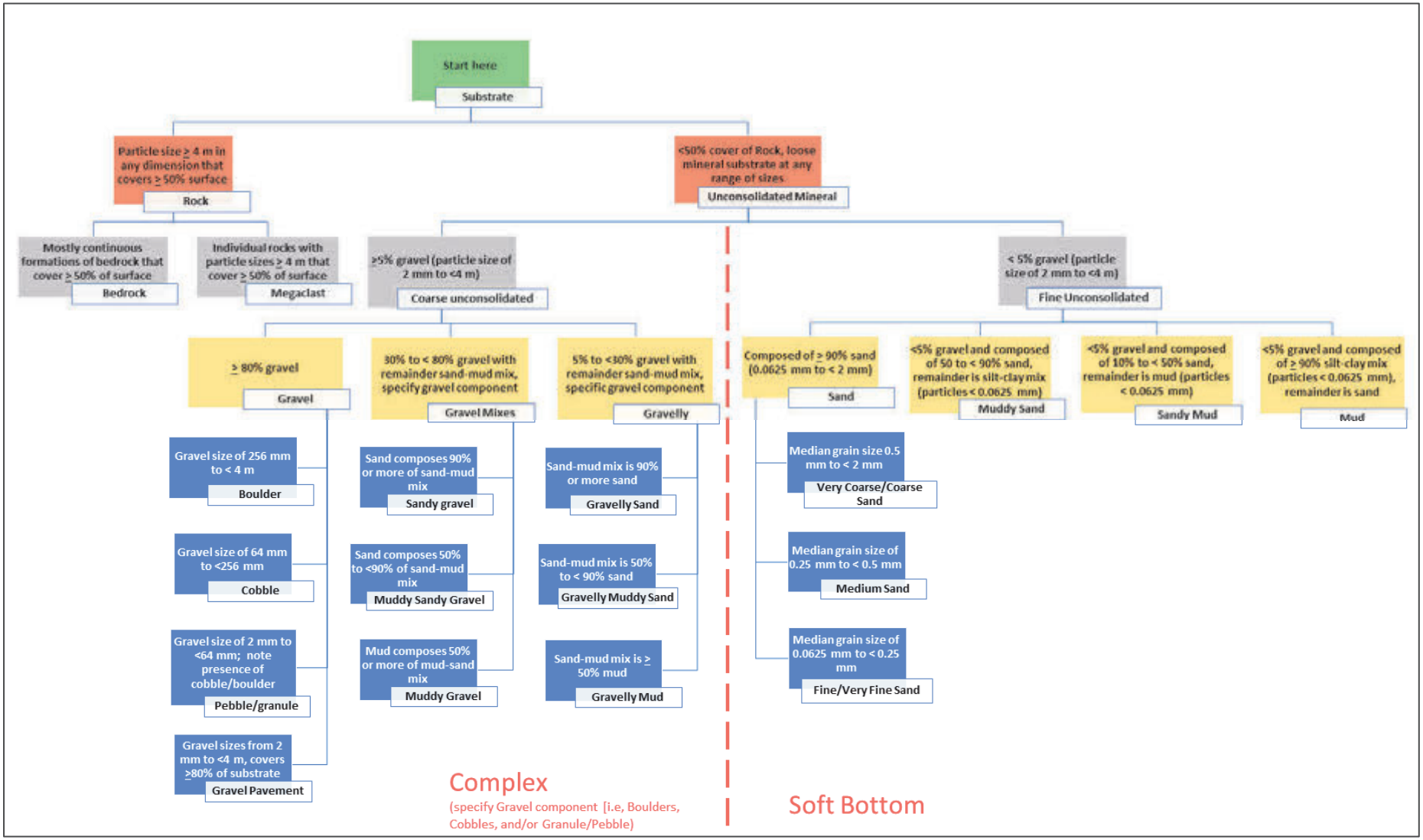


Figure 4.1-1. NMFS-Modified CMECS Decision Tree (Substrate)

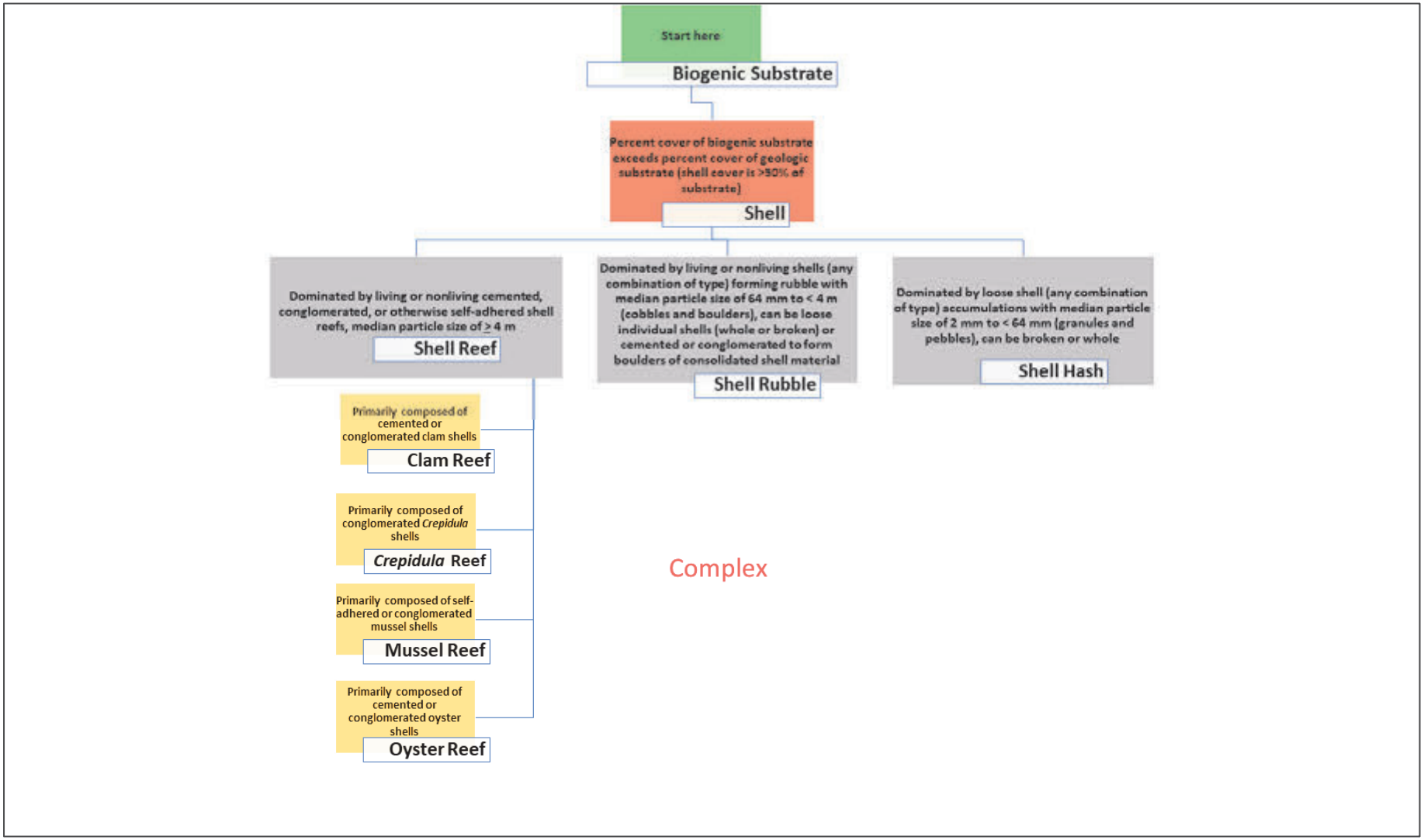


Figure 4.1-2. NMFS-Modified CMECS Decision Tree (Biogenic Substrate)

4.1.2 Massachusetts Offshore Export Cable Corridor

The most characterized bottom type seen in the Massachusetts Offshore Export Cable Corridor was Muddy Sand, found in approximately 6,226 m out of the 17,446 m total of Massachusetts transects. Additionally, Sand and Gravelly substrates were also frequently characterized. The Massachusetts Offshore Export Cable Corridor mostly consisted of soft bottom substrate with occasional short patches of coarser substrates in many transects. A small amount of Shell Hash was also present in a few transects. These results are presented in Table 21.

Table 21. Summary of NMFS-Modified CMECS Classifications of Massachusetts Offshore Export Cable Corridor Transects

CMECS Substrate Group	% of Total MA OECC Transect Length*	# of Transects Observed
Muddy Sand	35.69%	29
Sand	29.32%	27
Gravelly	14.64%	22
Gravel Mixes	5.77%	14
Sandy Mud	5.66%	6
Gravel	3.79%	14
Shell	1.50%	4
*Total may not add up to 100% due to poor visibility in some segments. These segments remained uncharacterized.		

4.1.3 Connecticut Offshore Export Cable Corridor

The most characterized bottom type seen in Connecticut Offshore Export Cable Corridor was Shell, found in 8,818 m out of the approximately 30,762 m total of Connecticut Offshore Export Cable Corridor transects. Sand and Muddy Sand were also frequently characterized. Bedrock was briefly observed in transect 522CT22-VT045 and 522CT22-VT070. The Connecticut Offshore Export Cable Corridor was mostly soft bottom substrate with occasional patches of coarse mineral substrates and Shell Hash or Shell Rubble. These results are presented in Table 22.

Table 22. Summary of NMFS-Modified CMECS Classifications of Connecticut Offshore Export Cable Corridor Transects

CMECS Substrate Subgroup	% of Total CT OECC Transect Length*	# of Transects Observed
Shell	28.67%	51
Sand	28.51%	56
Muddy Sand	23.43%	30
Gravelly	5.37%	18
Gravel	4.36%	18
Sandy Mud	2.66%	4

Table 22. Summary of NMFS-Modified CMECS Classifications of Connecticut Offshore Export Cable Corridor Transects (continued)

CMECS Substrate Subgroup	% of Total CT OECC Transect Length*	# of Transects Observed
Gravel Mixes	1.71%	14
Bedrock	0.04%	2
*Total may not add up to 100% due to poor visibility in some segments. These segments remained uncharacterized.		

4.2 Grab Sample Stations

Grab sample stations were also classified according to the NMFS-modified CMECS approach. Unlike the video transects, grab sample classifications relied heavily on the grain size analysis, which provided detailed breakdowns on the percent composition (by weight) of gravel, sand, mud, and shell (as gravel-sized shell fragments). However, visual inspection of in situ imagery was also used to inform classifications that required an estimate of percent cover.

4.2.1 Lease Area

Results of the benthic grab NMFS-modified CMECS classifications within the Lease Area are presented in Figure 4.2-1 and summarized in Table 23. Representative photographs of each grab are presented in Appendices H and I. The resulting substrate classifications are summarized below and presented graphically in Appendix O.

Table 23. Lease Area Benthic Grab Sample Substrate Classifications

CMECS Substrate Group	CMECS Substrate Subgroup(s)	No. of Locations	% of Locations
Sandy Mud	N/A	0	0%
Muddy Sand	N/A	4	29%
Sand	Fine/Very Fine Sand to Very Coarse/Coarse Sand	10	71%
Gravelly	Gravelly Sand	0	0%
Gravel Mixes	Sandy Gravel	0	0%
Total		**14**	**100%**

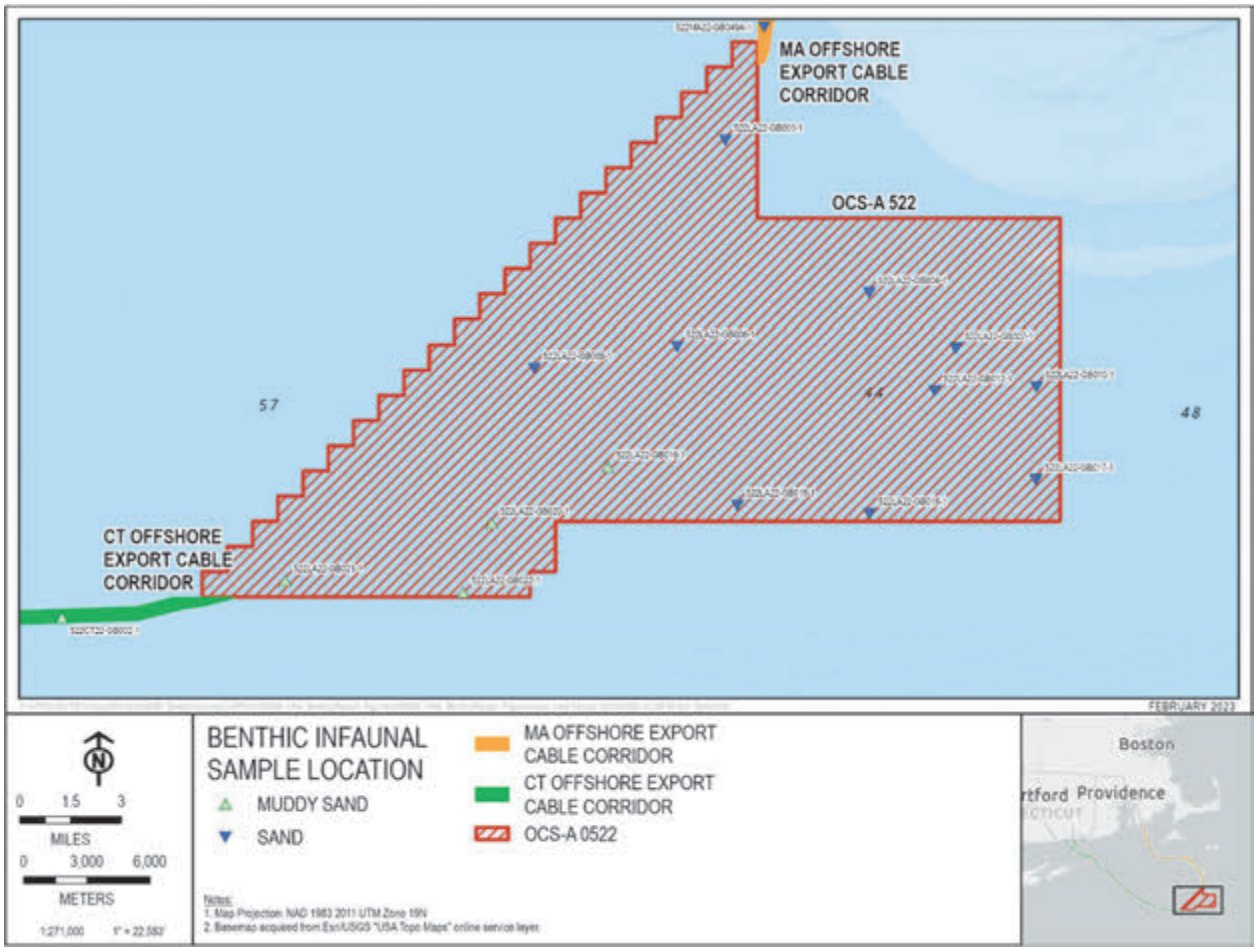


Figure 4.2-1. Lease Area Benthic Sampling Locations by CMECS Substrate Group

4.2.2 Massachusetts Offshore Export Cable Corridor

Results of the benthic grab NMFS-modified CMECS classifications within the Massachusetts Offshore Export Cable Corridor are presented in Figure 4.2-2 and summarized in Table 24. Representative photographs of each grab are presented in Appendices H and I. The resulting substrate classifications are summarized below and presented graphically in Appendix O.

Table 24. Massachusetts Offshore Export Cable Corridor Benthic Grab Sample Substrate Classifications

CMECS Substrate Group	CMECS Substrate Subgroup(s)	No. of Locations	% of Locations
Sandy Mud	N/A	0	0%
Muddy Sand	N/A	2	7%
Sand	Fine/Very Fine Sand to Very Coarse/Coarse Sand	21	78%

Table 24. Massachusetts Offshore Export Cable Corridor Benthic Grab Sample Substrate Classifications (continued)

CMECS Substrate Group	CMECS Substrate Subgroup(s)	No. of Locations	% of Locations
Gravelly	Gravelly Sand	3	11%
Gravel Mixes	Sandy Gravel	1	4%
Total		**27**	**100%**

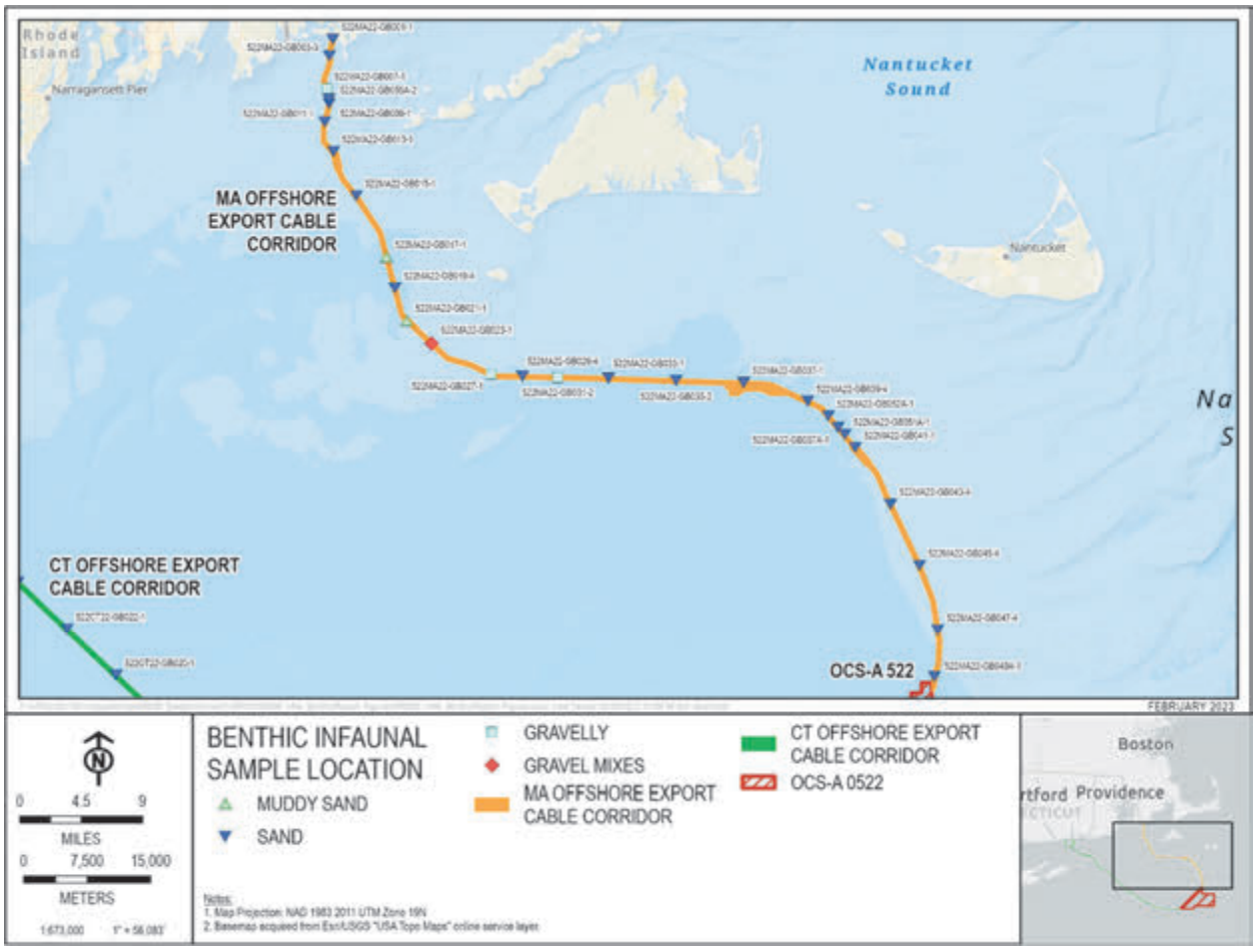


Figure 4.2-2. Massachusetts Offshore Export Cable Corridor Benthic Sampling Locations by CMECS Substrate Group

4.2.3 Connecticut Offshore Export Cable Corridor

Results of the benthic grab NMFS-modified CMECS classifications within the Connecticut Offshore Export Cable Corridor are presented in Figures 4.2-3 and 4.2-4 and summarized in Table 25. Representative photographs of each grab are presented in Appendices H and I. The resulting substrate classifications are summarized below and presented graphically in Appendix O.

Table 25. Connecticut Offshore Export Cable Corridor Benthic Grab Sample Substrate Classifications

CMECS Substrate Group	CMECS Substrate Subgroup(s)	No. of Locations	% of Locations
Sandy Mud	N/A	1	2%
Muddy Sand	N/A	19	29%
Sand	Fine/Very Fine Sand to Very Coarse/Coarse Sand	26	40%
Gravelly	Gravelly Sand	16	25%
Gravel Mixes	Sandy Gravel	3	5%
Total		**65**	**100%**

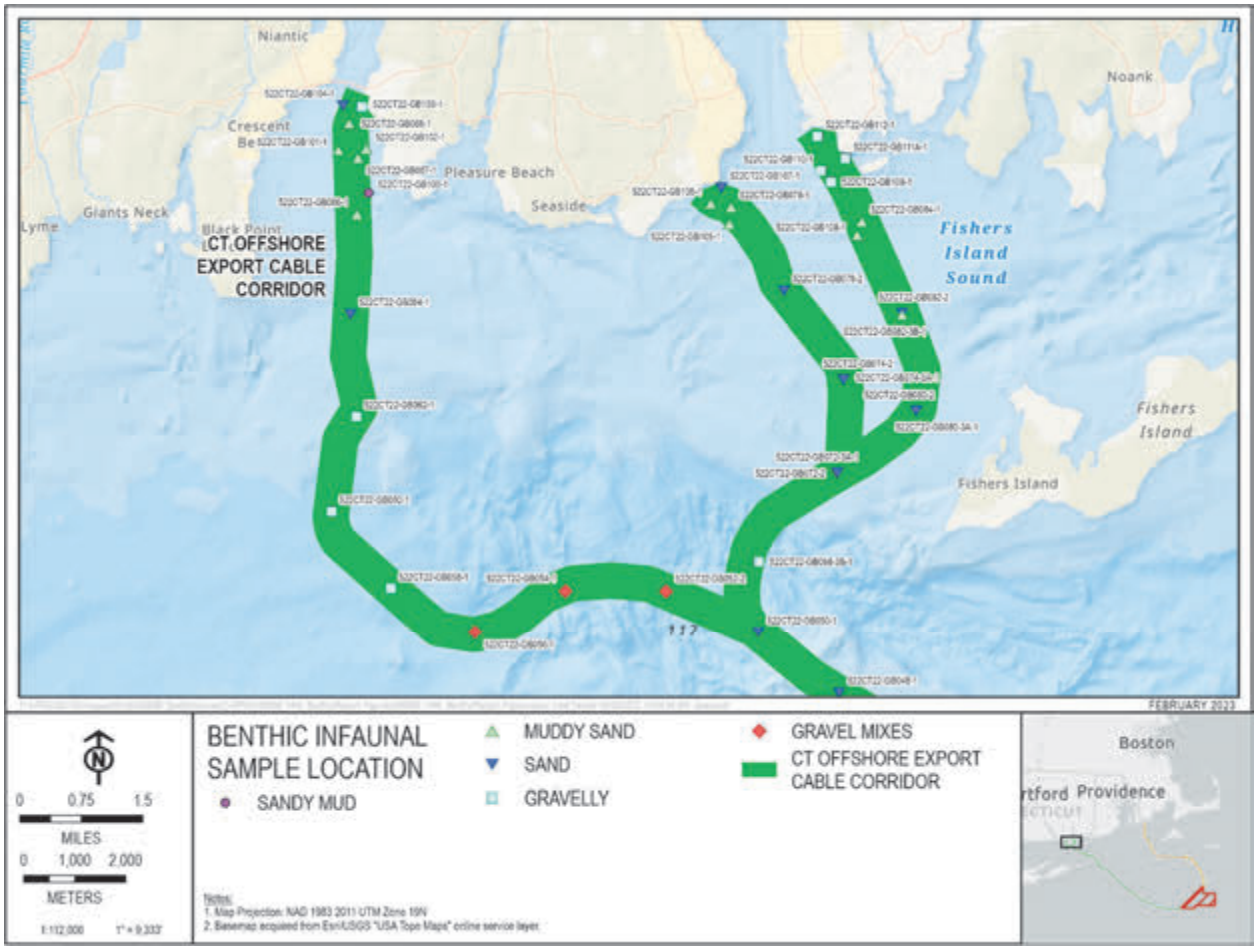


Figure 4.2-3. Connecticut Offshore Export Cable Corridor (North) Benthic Sampling Locations by CMECS Substrate Group

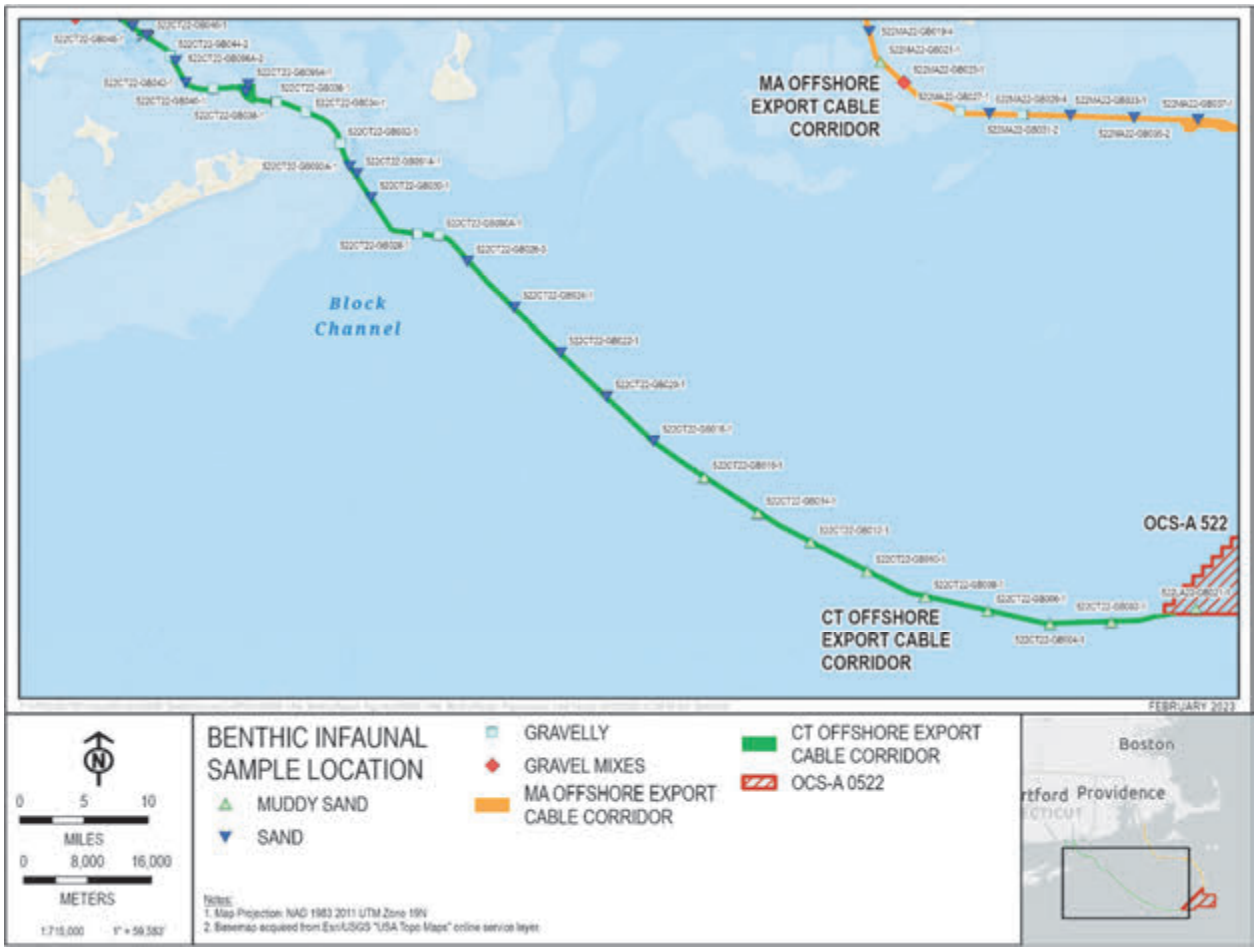


Figure 4.2-4. Connecticut Offshore Export Cable Corridor (South) Benthic Sampling Locations by CMECS Substrate Group

5.0 Summary

Approach

A benthic field survey was completed from April to October 2022 to collect site-specific benthic community and habitat data within the Vineyard Northeast Lease Area and Offshore Export Cable Corridors.

Benthic imagery transects were collected at a total of 192 locations. Benthic grab samples were collected at 411 locations and processed for grain size analysis; of these, 106 locations were also sampled for infauna and video of the seafloor.

These data were used to characterize the flora and fauna of the benthic community and describe benthic habitats in sampled portions of the Vineyard Northeast Lease Area, the Massachusetts Offshore Export Cable Corridor, and the Connecticut Offshore Export Cable Corridor.

Overall Conditions

The benthic ROV video transect results indicated seafloor habitats mostly dominated by fine unconsolidated substrate types, especially sand and muddy sand. However, gravel, gravel mixes, and gravelly substrates were also present, often with a variety of gravel compositions (boulder, cobble, and pebble/granule). A smaller number of benthic imagery transects contained shell-dominated bottom types. Other notable but uncommon and highly localized benthic habitat features included bedrock and submerged aquatic vegetation (eelgrass).

Based on the benthic imagery collected, sand substrates often hosted common sand dollars (*Echinarachnius parma*) at the sediment water interface while hermit crabs (*Pagurus* spp.) were observed on a variety of fine and coarse unconsolidated substrate types. Larger gravel clasts (cobble and boulder) often harbored stony corals (e.g., *Astrangia poculata*) and other sessile epifauna. Eelgrass was only observed withing the CT OECC and was most abundant in transect 522CT22-VT117.

Benthic grab samples were primarily classified as sand or muddy sand substrates (54% and 24% of samples, respectively). Sandy mud was the least frequently observed substrate group in the benthic grab samples, and mud substrates were not observed in any of the benthic imagery transects or grab samples. Therefore, these types of soft bottom habitats are anticipated to be very rare. Gravel substrates were also not observed in any of the grab samples although they were evident in multiple benthic imagery transects, often as cobble or boulder-sized clasts.

A total of 143 marine invertebrate taxa, including annelids, mollusks, arthropods, echinoderms, nemertean ribbon worms, cnidarians, and chordates (ascidians) were found in the 106 macrofaunal grab samples collected during the 2022 benthic survey program. Taxa identified in grab samples collected from all three project areas were typical of soft-sediment coastal shelf habitats of the northeastern US coast. Widespread or abundant organisms included polychaete worms (e.g., *Polygordius* sp., Cirratulidae, *Scoletoma* sp., *Nephtys* sp. *Goniadella gracilis, Terebellidae*), oligochaete worms, amphipods (e.g., *Ampelisca* sp., *Erichthonius* sp.), nut clams (*Nucula proxima*), cumaceans (*Diastylis* sp., *Eudorella* sp.), brittle stars (*Amphioplus abditus*), and Common Atlantic slippersnails (*Crepidula fornicata*).

Comparisons between Project Areas

The percentage of benthic grab samples classified as coarse unconsolidated substrate (i.e., gravel, gravel mixes, or gravelly substrates) was notably greater in the Connecticut Offshore Export Cable Corridor (29%), than in the Lease Area (0%), or Massachusetts Offshore Export Cable Corridor (15%). These habitat differences are potentially reflected to some degree in the infaunal data, with certain species indicative of coarse substrates (e.g., common Atlantic slippersnail) absent from Lease Area samples, present in Massachusetts Offshore Export Cable Corridor samples, and most abundant in Connecticut Offshore Export Cable Corridor samples.

Average organism density (log transformed to better meet assumption of normality) was significantly greater in Lease Area samples than in other project areas. However, given variable sample and subsample size and the limitations inherent to infaunal density metrics, the significance of this difference should be interpreted cautiously and in the context of other biological and benthic habitat measures. Taxa richness was also significantly greater in Lease Area samples than in the other project areas. Additionally, multivariate analyses (NMDS ordination and ANOSIM) indicated that benthic community composition differed between shallow (<40m) and deep (>40m) samples, between nearshore (state waters) and offshore (federal waters) samples, and between CMECS substrate groups. However, community composition did not differ significantly between project areas.

In sum, despite the higher percentage of samples classified as coarse unconsolidated substrate in Connecticut Offshore Export Cable Corridor samples, benthic macrofaunal communities within project areas (especially the Offshore Export Cable Corridors) were variable and significant differences in benthic communities were not observed.

6.0 References

Abbott, R.T. and P.A. Morris. 1995. Shells of the Atlantic and Gulf Coasts and the West Indies. Boston, MA: Houghton Mifflin Company.

Bartholomew, A. 2001. Polychaete Key for Chesapeake Bay and Coastal Virginia.

Bousfield, E.L. 1973. Shallow-water Gammaridean Amphipoda of New England. Ithaca, NY: Cornell University Press.

Bray, J. R., and J. T. Curtis. 1957. An ordination of the upland forest communities of southern Wisconsin. *Ecological monographs*, 27(4), 325-349.

Byers, J. E. and J.H. Grabowski. 2014. Soft-sediment communities. In: Marine Community Ecology. Eds.: M. D. Bertness, J. F. Bruno, B. R. Silliman & J. J. Stachowicz. Sinauer, p.227-249.

Chang, S., Steimle, F. W., Reid, R. N., Fromm, S. A., Zdanowicz, V. S., & Pikanowski, R. A. 1992. Association of benthic macrofauna with habitat types and quality in the New York Bight. Marine ecology progress series. Oldendorf, 89(2), 237-251.

Che, F. W. 1990. Benthic macrofauna and habitat monitoring on the continental shelf of the northeastern United States I. Biomass. NOAA Tech. Report NMFS 86.

[CIESM] International Commission for the Scientific Exploration of the Mediterranean Sea. 2003. *Crepidula fornicata* (Linnaeus, 1758). CIESM: Atlas of Exotic Species in the Mediterranean Sea.

Clarke, K. R. and R. N. Gorley. 2006. PRIMER v6: User Manual/Tutorial. Plymouth, United Kingdom: PRIMER-E, Ltd.

CR Environmental Inc. 2022. Operational Survey Report. Vibracoring, Sediment Grab Sampling, and Underwater Video Surveys. New London & Niantic, CT and Westport, MA.

Cuffney, T. F., M.D. Bilger, and A. M. Haigler. 2007. Ambiguous taxa: effects on the characterization and interpretation of invertebrate assemblages. Journal of the North American Benthological Society 26, no. 2: 286-307.

Dean, H. K. 2008. The use of polychaetes (Annelida) as indicator species of marine pollution: a review. International Journal of Tropical Biology, 56(Supplement 4): 11-38.

Gosner, K.L. 1971. Guide to Identification of Marine and Estuarine Invertebrates: Cape Hatteras to the Bay of Fundy. New York: John Wiley and Sons, Inc.

Gosner, K.L. 1978. The Peterson Field Guide Series. A Field Guide to the Atlantic Seashore from the Bay of Fundy to Cape Hatteras. Boston, MA: Houghton Mifflin Company.

Kells, V. and Carpenter, K. and 2011. A Field Guide to Coastal Fishes: From Maine to Texas. Baltimore, MD: The John Hopkins University Press

Kruskal, J. B. 1964. Multidimensional scaling by optimizing goodness of fit to a nonmetric hypothesis. *Psychometrika*, 29(1), 1-27.

Magurran, A.E. 2003. Measuring Biological Diversity. Malden, MA: Blackwell Publishing Ltd.

Martinez, A.J. 1999. Marine Life of the North Atlantic, Canada to New England. Rockport, ME: Down East Books.

Meredith, C.S., A.S Trebitz, and J.C. Hoffman. 2019. Resolving taxonomic ambiguities: effects on rarity, projected richness, and indices in macroinvertebrate datasets. Ecological indicators, 98: 137-148.

National Marine Fisheries Service Greater Atlantic Fisheries Office Habitat Conservation and Ecosystem Services Division. March 2021. Coastal and Marine Ecological Classification Standard (CMECS) Substrate Classifications: Modifiers for EFH Assessments, PDF pages 16-20.

Pettibone, M.H. 1963. Marine Polychaete Worms of the New England Region, Part 1, Families Aphroditidae through Trochochaetidae. Bulletin of the U.S. National Museum, 227: 1-356.

Pollock, L.W. 1998. A Practical Guide to the Marine Animals of Northeastern North America. New Brunswick, NJ: Rutgers University Press.

Ramey P.A. 2008. Life history and population dynamics of a dominant polychaete, *Polygordius jouinae*, in inner continental shelf sands of the Mid-Atlantic Bight, USA. Marine Biology, 154: 443–452.

Ramey, P. A., Fiege, D., and B.S. Leander. 2006. A new species of *Polygordius* (Polychaeta: Polygordiidae): from the inner continental shelf and in bays and harbours of the north-eastern United States. Journal of the Marine Biological Association of the United Kingdom, 86(5), 1025-1034.

Schaffner, L.C. and Boesch, D.F., 1982. Spatial and temporal resource use by dominant benthic Amphipoda (Ampeliscidae and Corophiidae) on the Middle Atlantic Bight outer continental shelf. Marine Ecology Progress Series, pp.231-243.

Smith, R.I. 1964. Keys to the Marine Invertebrates of the Woods Hole Region: a manual for the identification of the more common marine invertebrates. Woods Hole, MA: Marine Biological Laboratory.

Taylor, R.B. 1998. Density, biomass and productivity of animals on four subtidal rocky reef habitats: the importance of small mobile invertebrates. Marine Ecology Progress Series, 172(37): 37-51.

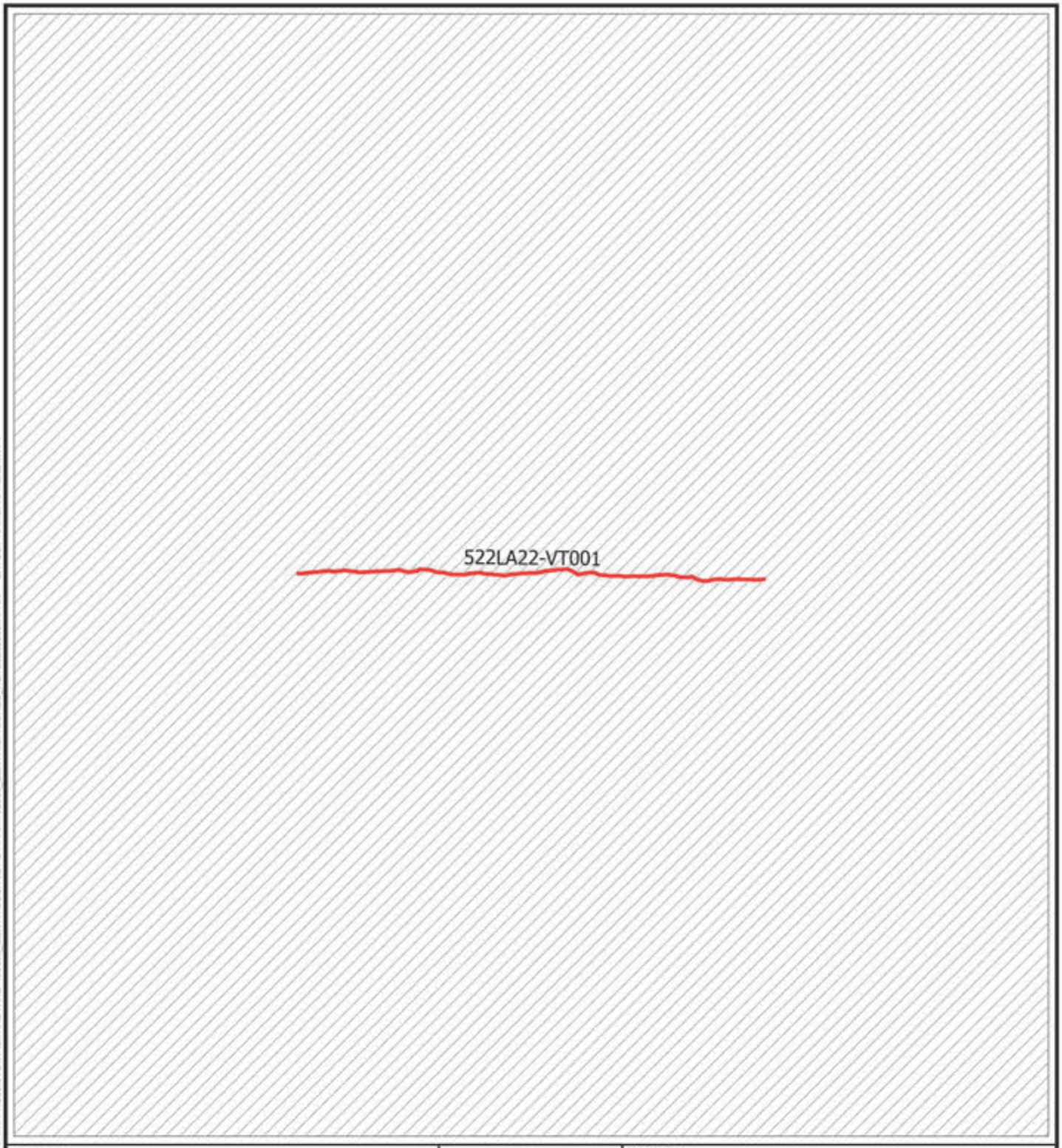
Taylor, S.L. and Villalard, M. 1972. “Bulletin No. 18: Seaweeds of the Connecticut Shore: A Wader’s Guide” *Bulletins*. Paper 18.

Thrush, S.F. and Dayton, P.K. 2002. Disturbance to Marine Benthic Habitats by Trawling and Dredging: Implications for Marine Biodiversity. Annual Reviews. *Annual Review of Ecology and Systematics*, 2002, Vol. 33 (2002), pp. 449-473

Watling, L., 1979. Marine flora and fauna of the northeastern United States: Crustacea, Cumacea (Vol. 55). Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service.

Weiss, H.M. 1995. Marine Animals of Southern New England and New York. Identification Keys to Common Nearshore and Shallow Water Macrofauna. Bulletin 115 of the State Geological and Natural History Survey of Connecticut. Connecticut Department of Environmental Protection.

Appendix A-1: Underwater Video Track Lines: 522 Lease Area



522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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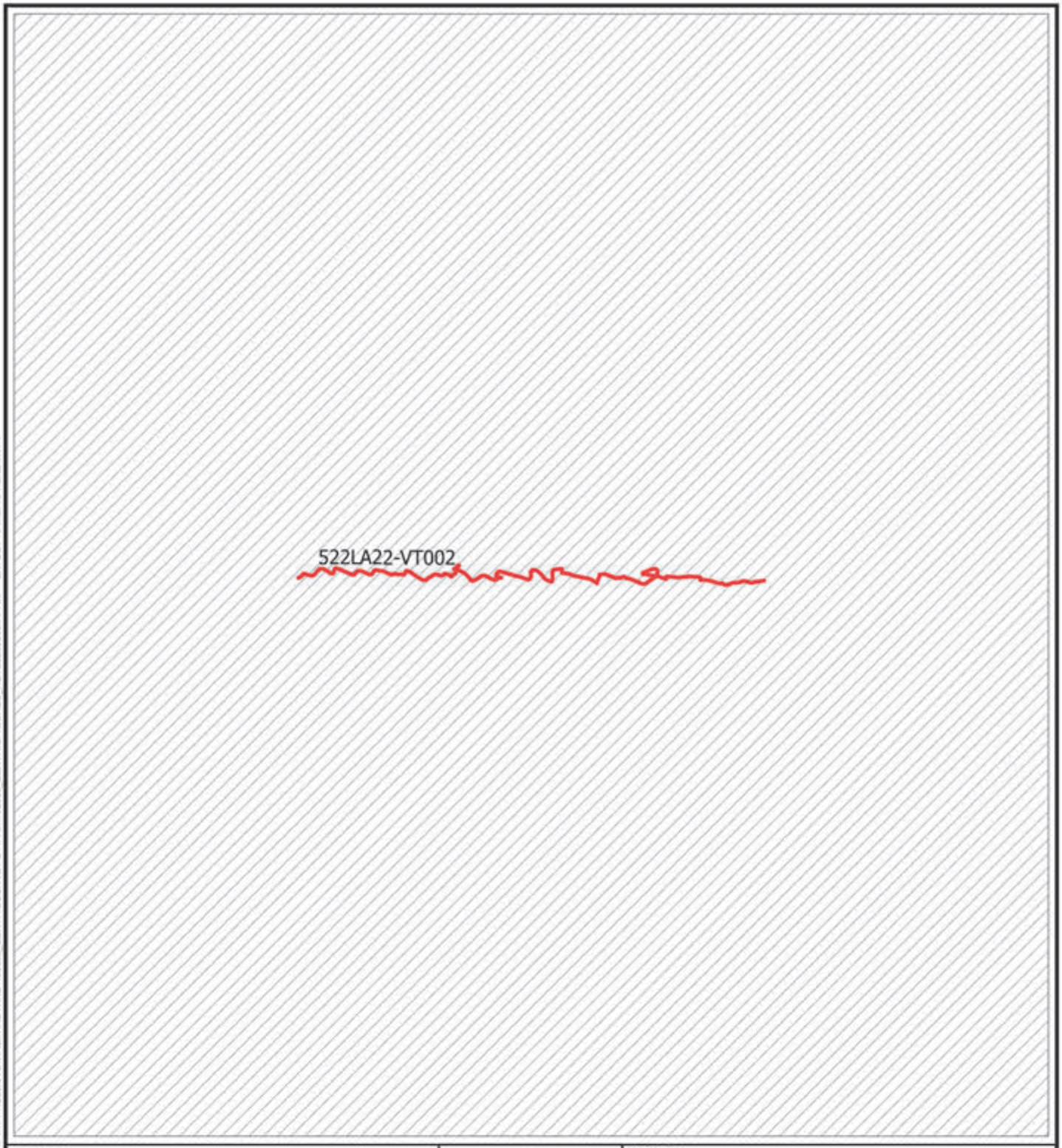

522 Lease Area

Video Track Lines, Lease Area

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-1**	
APPROVED BY:	M. LADEWIG	Transect: 522LA22-VT002	
DATE:	MARCH 2023		

TRC

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2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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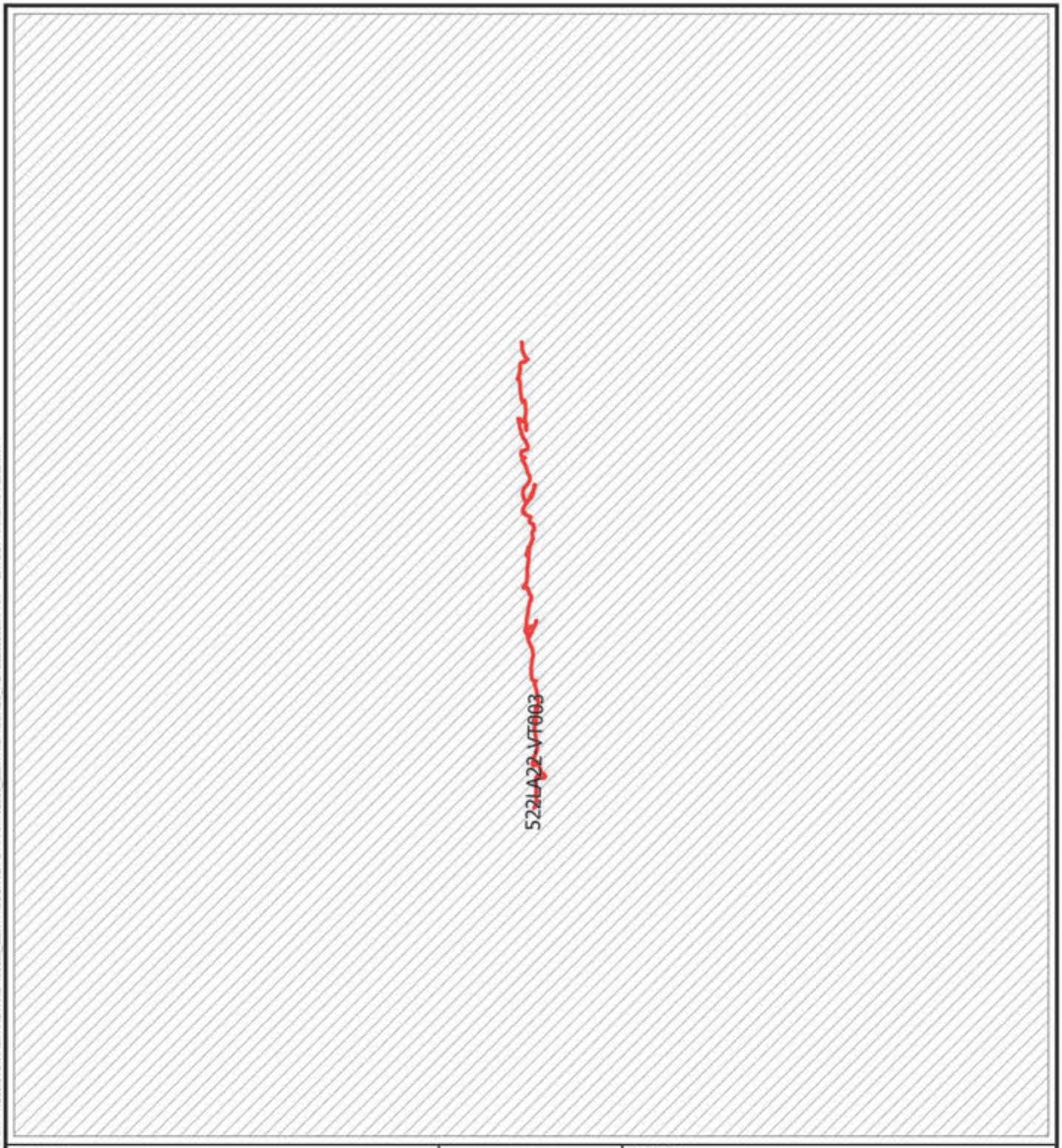

522 Lease Area

Video Track Lines, Lease Area

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-1**	
APPROVED BY:	M. LADEWIG	Transect: 522LA22-VT003	
DATE:	MARCH 2023		

TRC

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EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

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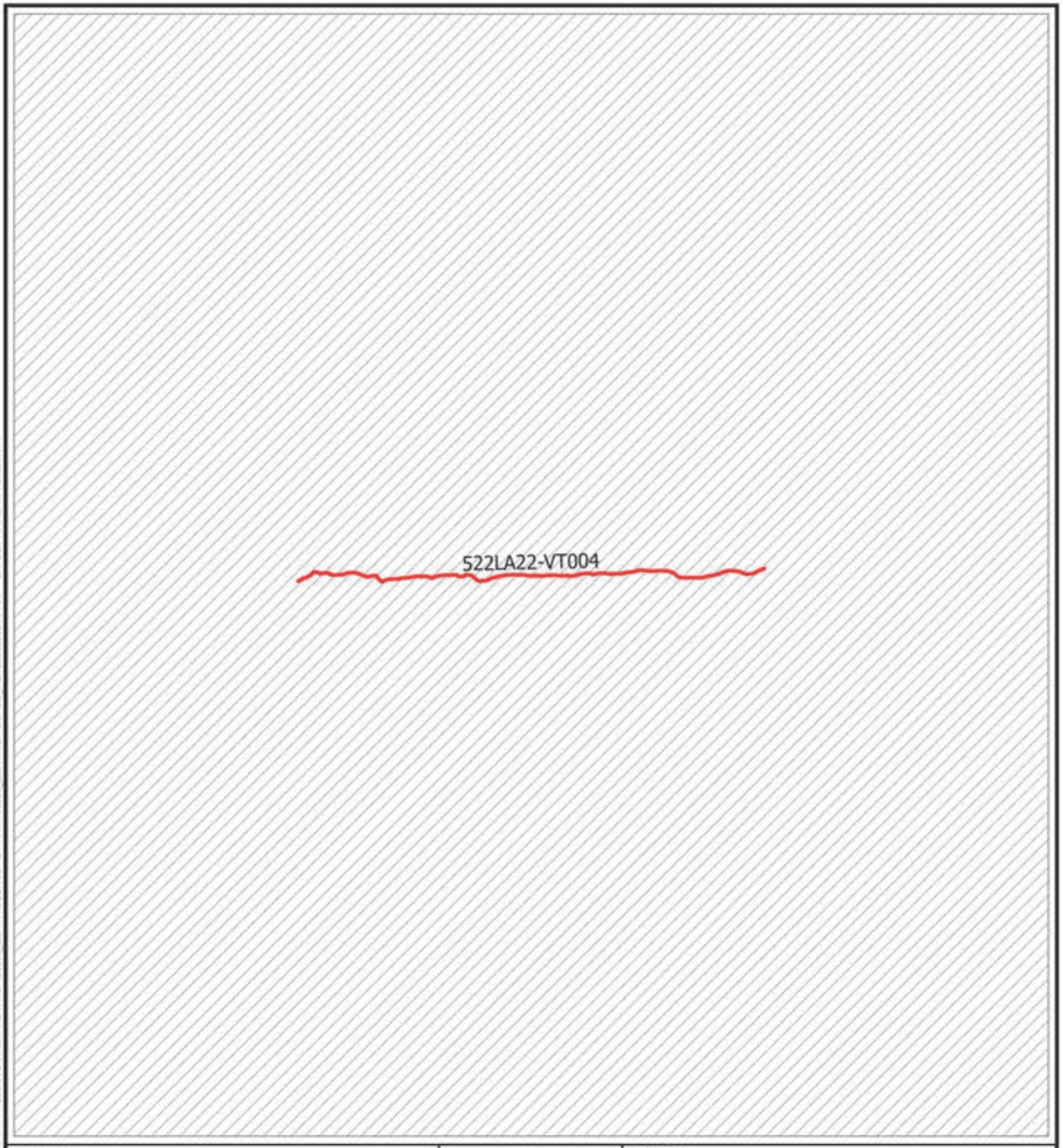

522 Lease Area

Video Track Lines, Lease Area

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DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT004

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EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

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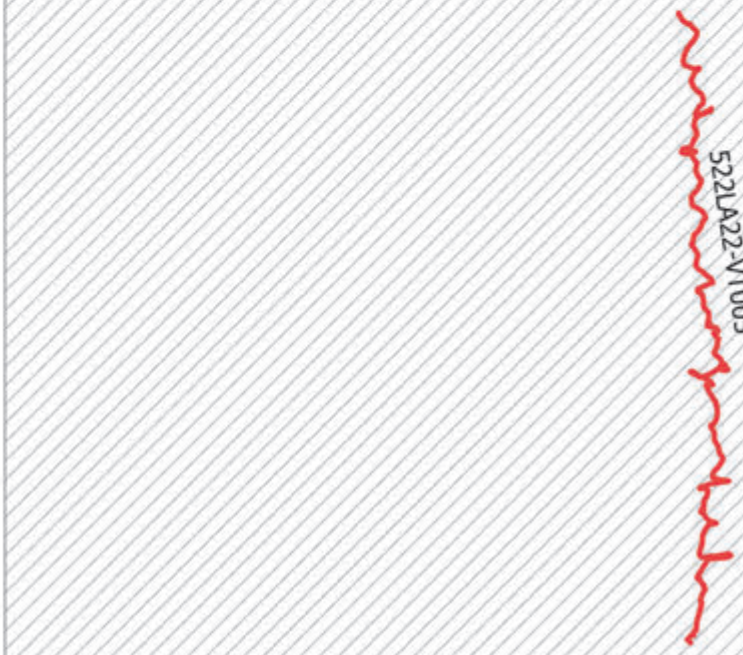

522 Lease Area

Video Track Lines, Lease Area

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BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
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TITLE:
UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT005

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2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

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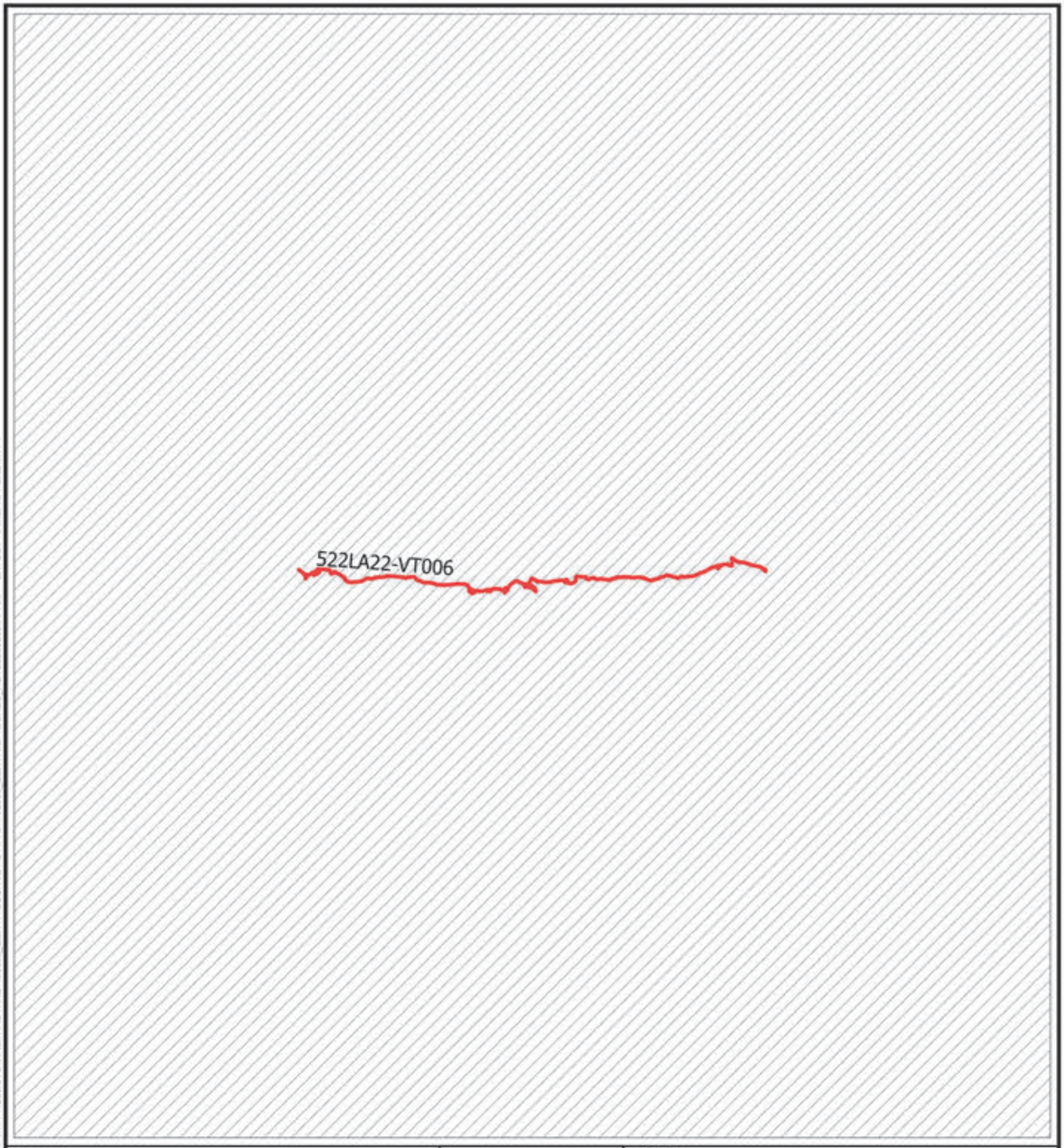

522 Lease Area

Video Track Lines, Lease Area

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DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT006

TRC
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2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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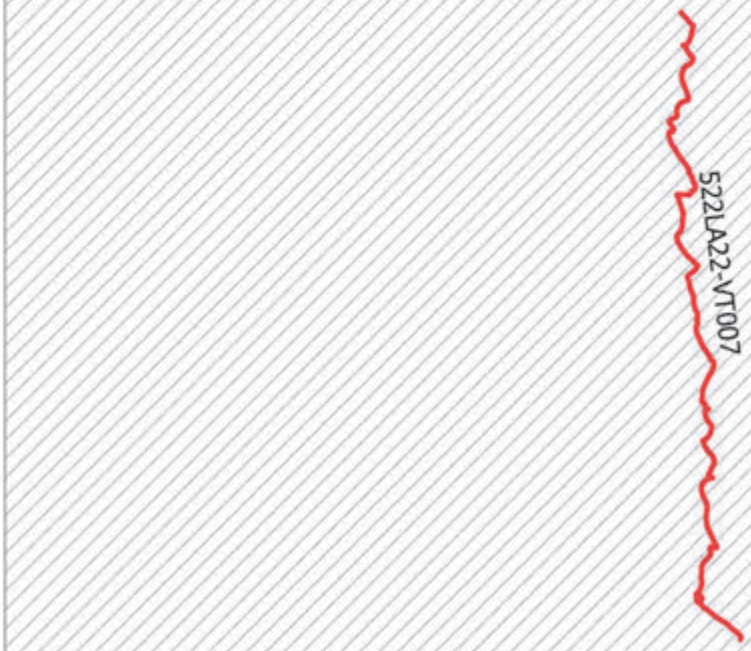

522 Lease Area

Video Track Lines, Lease Area

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BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-1**	
DATE:	MARCH 2023	Transect: 522LA22-VT007	

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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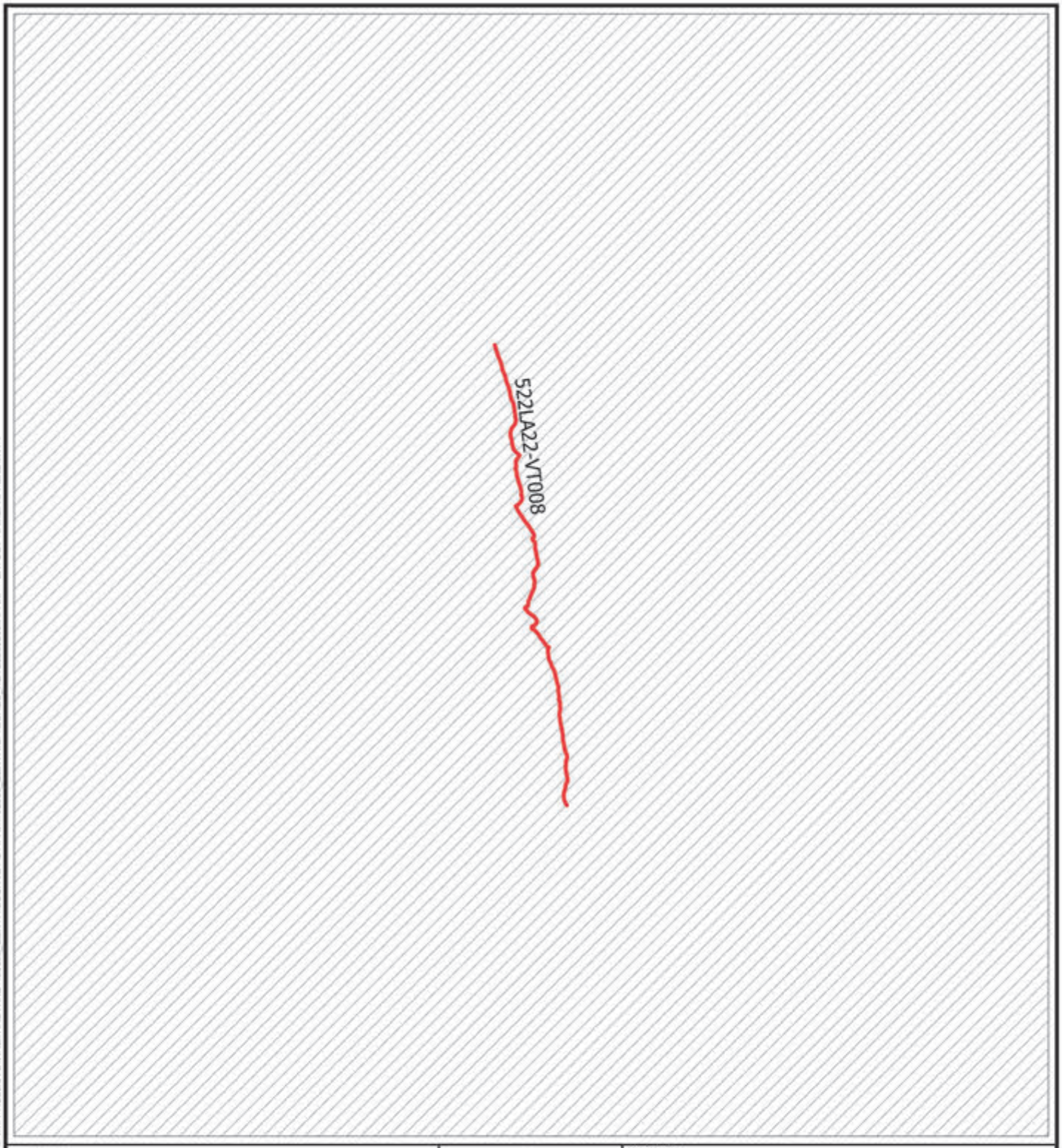

522 Lease Area

Video Track Lines, Lease Area

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\1-PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-1

522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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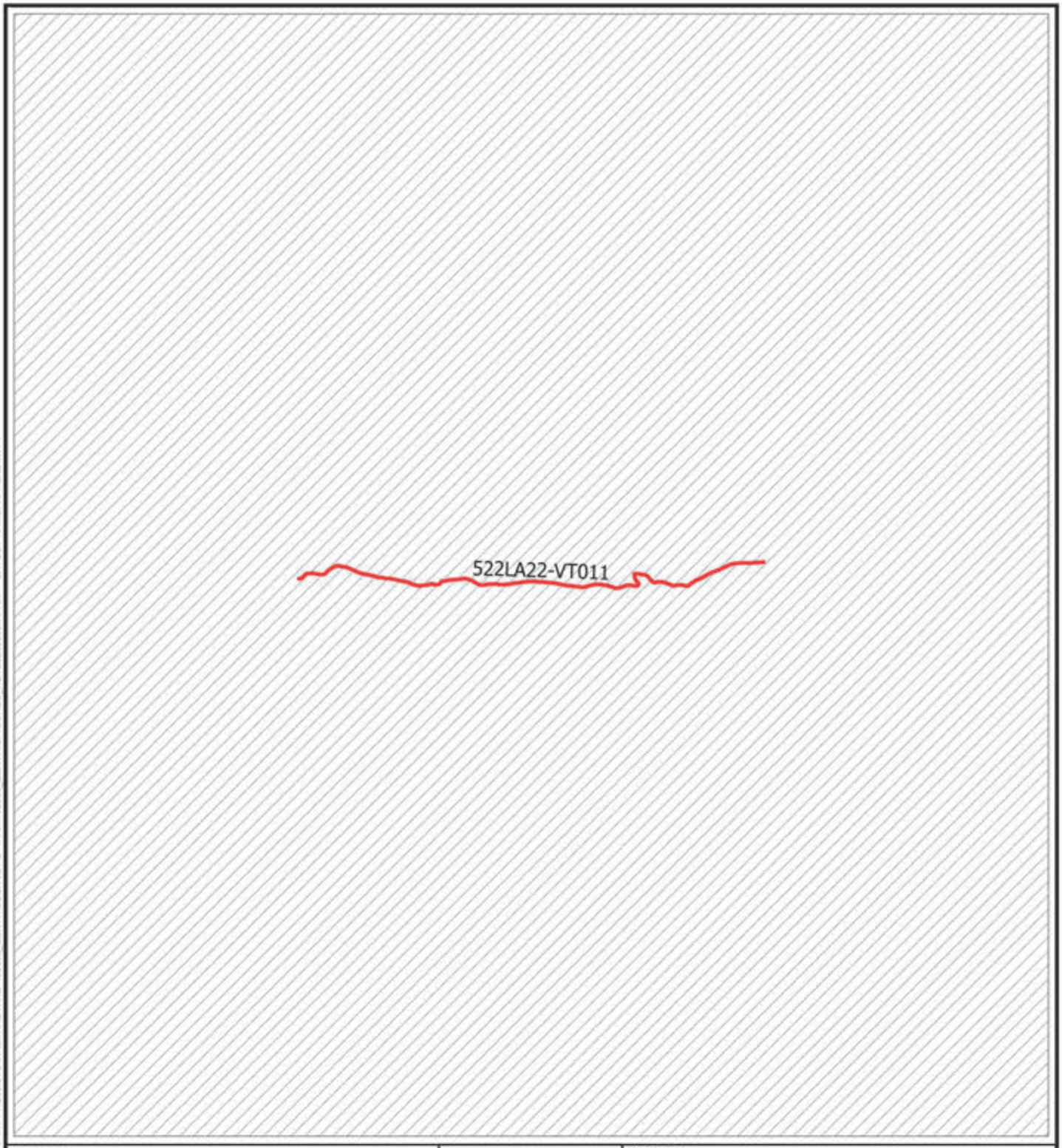

522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-1**	
APPROVED BY:	M. LADEWIG	Transect: 522LA22-VT011	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

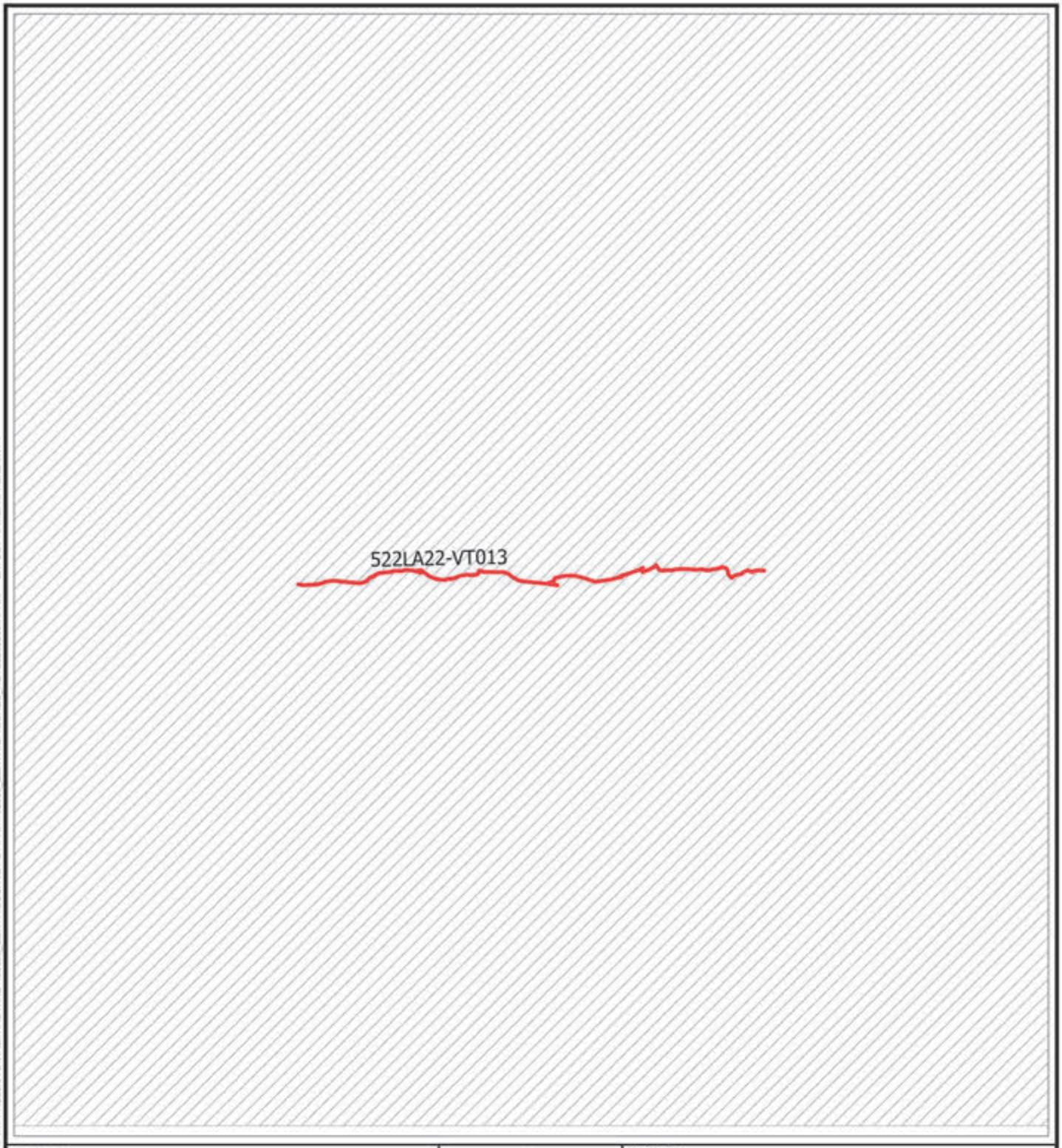
TITLE:
UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-1**	
APPROVED BY:	M. LADEWIG	Transect: 522LA22-VT012	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-1



522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

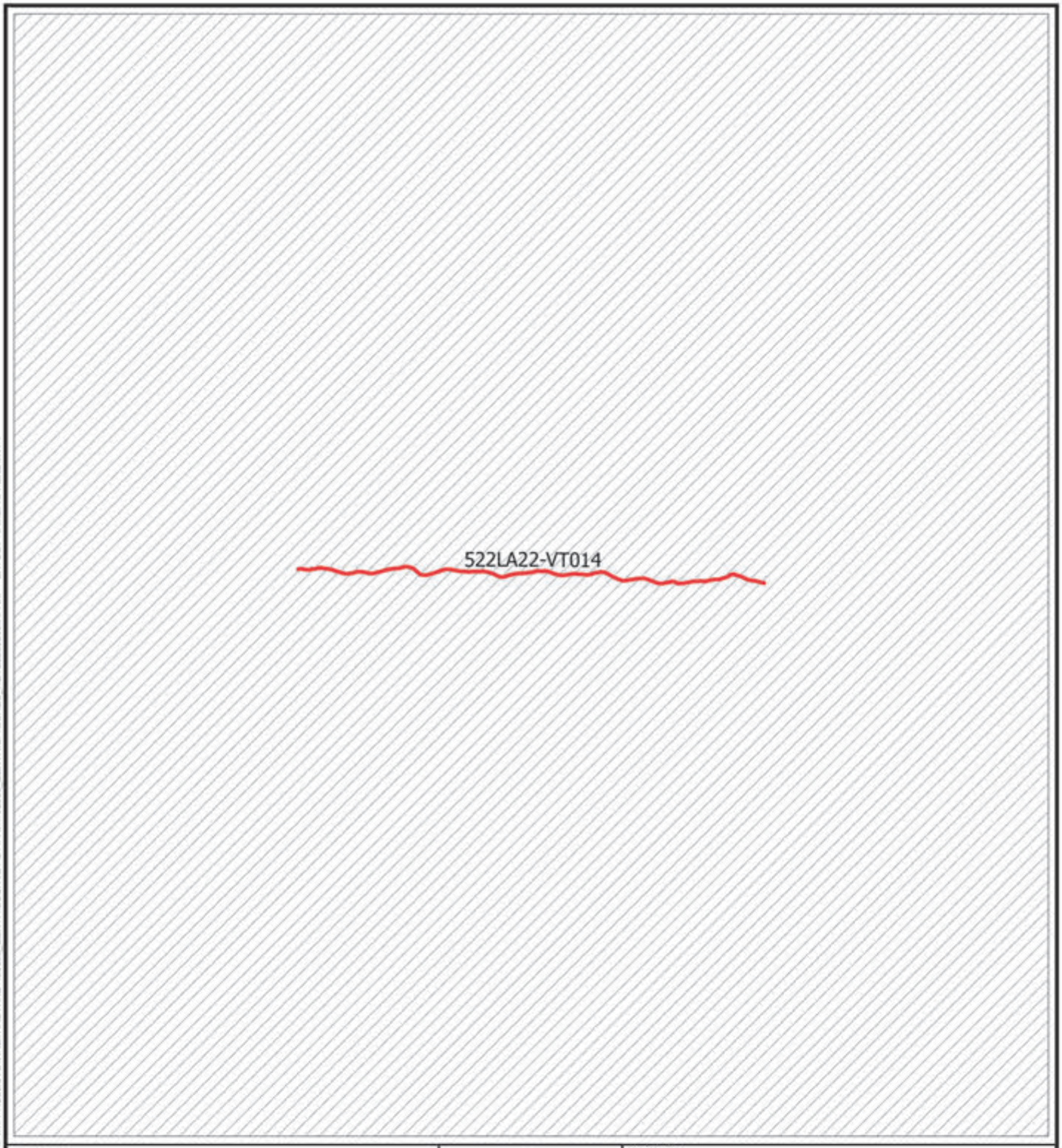
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEY\3-APROM\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-1



522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-1**	
APPROVED BY:	M. LADEWIG	Transect: 522LA22-VT014	
DATE:	MARCH 2023		

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-1

522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-1**	
APPROVED BY:	M. LADEWIG	Transect: 522LA22-VT015	
DATE:	MARCH 2023		

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-1

522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

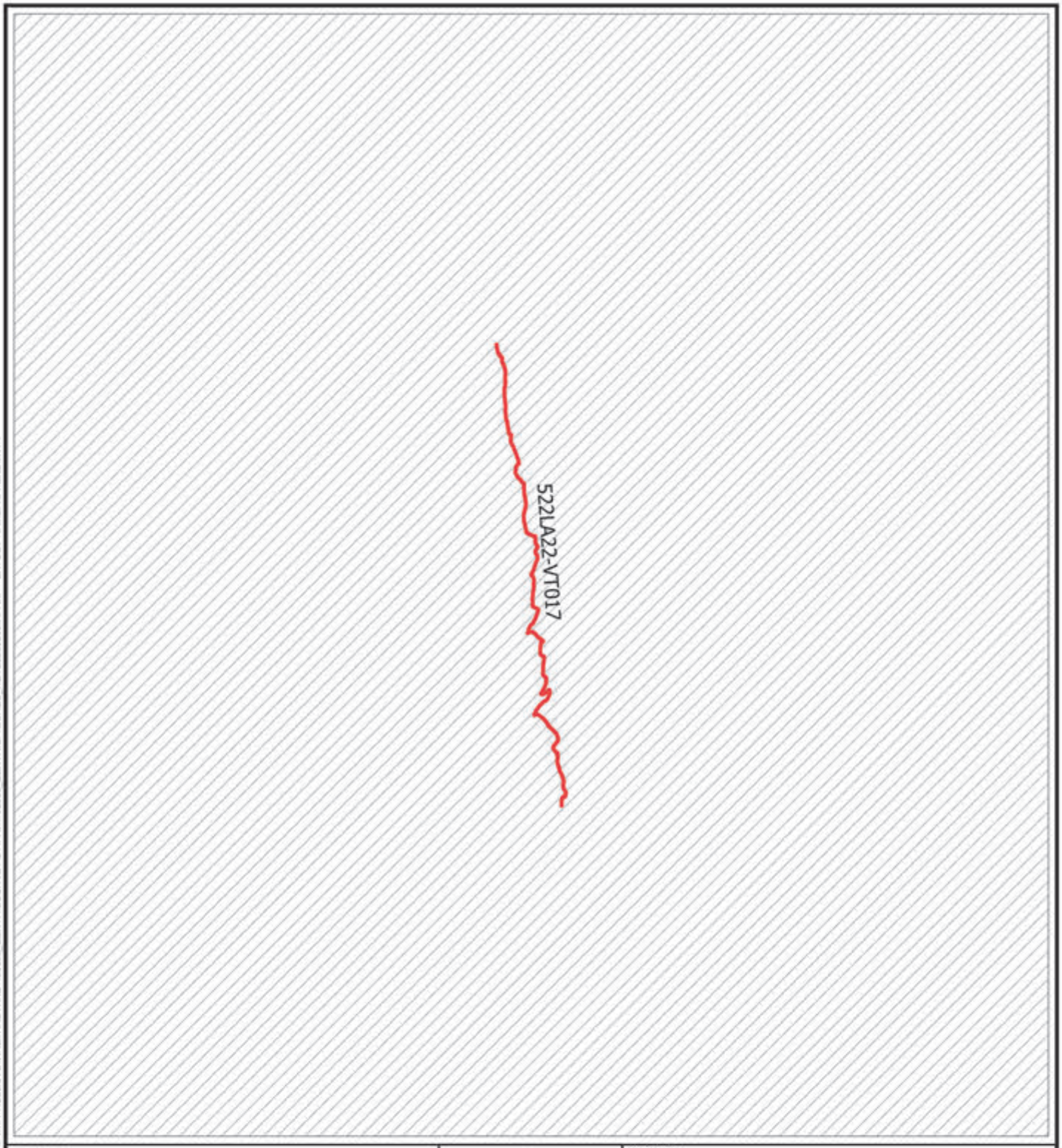
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-1



522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: 522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT017

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-1

522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

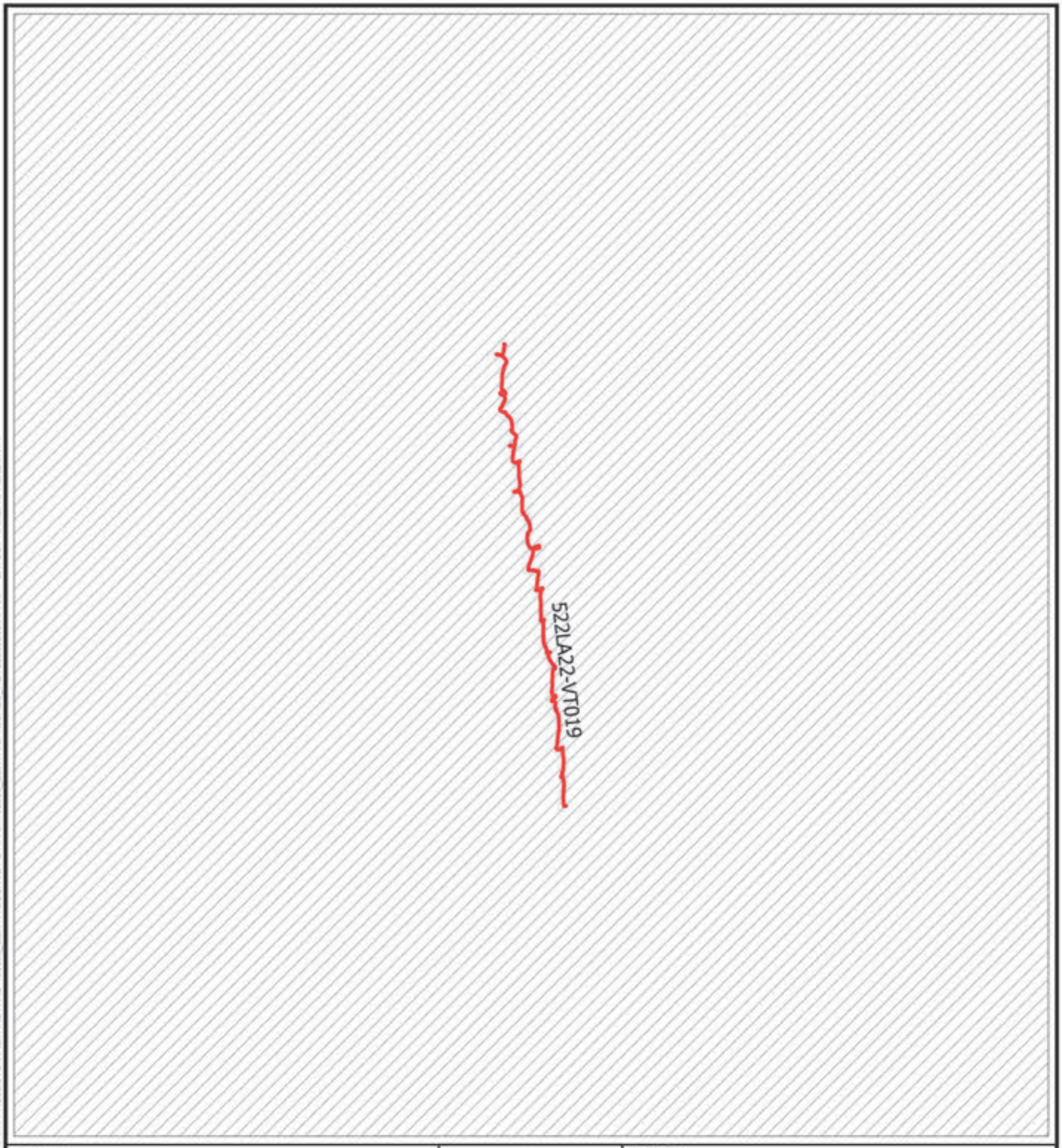
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-1
Transect: 522LA22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEY\3-APROM\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-1



522 Lease Area

Video Track Lines, Lease Area

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
522 LEASE AREA

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

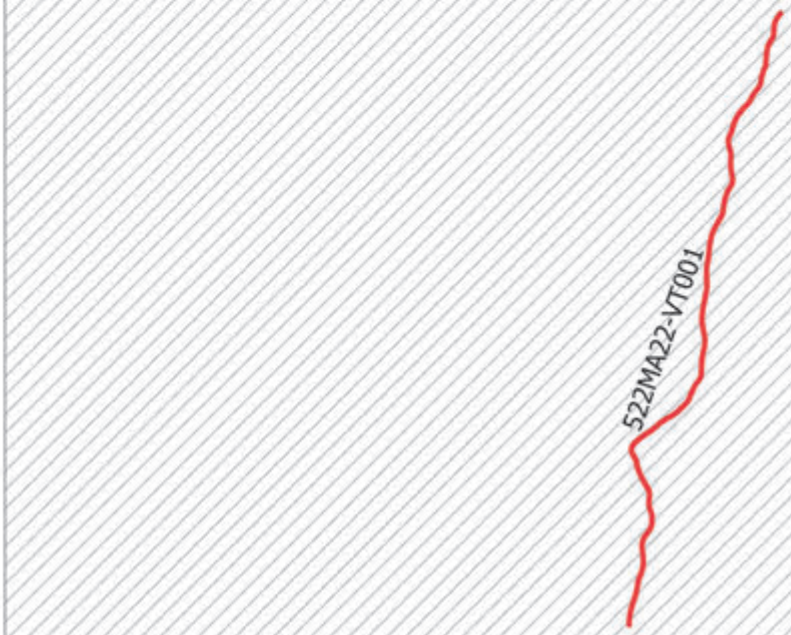
Appendix A-1
Transect: 522LA22-VT019

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: I:\1-PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-1

Appendix A-2: Underwater Video Track Lines: MA OECC



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

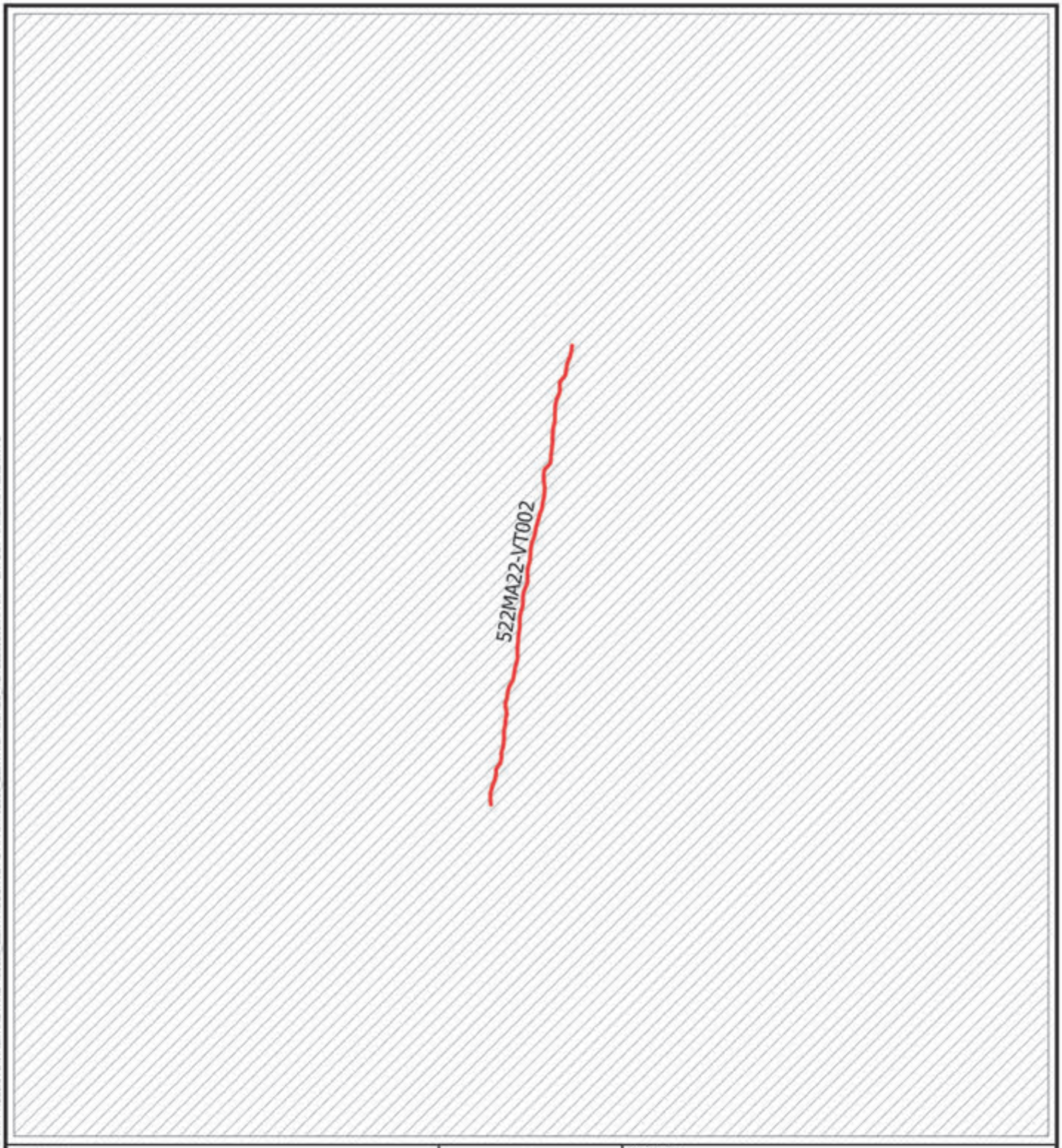
TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	Appendix A-2	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT001	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

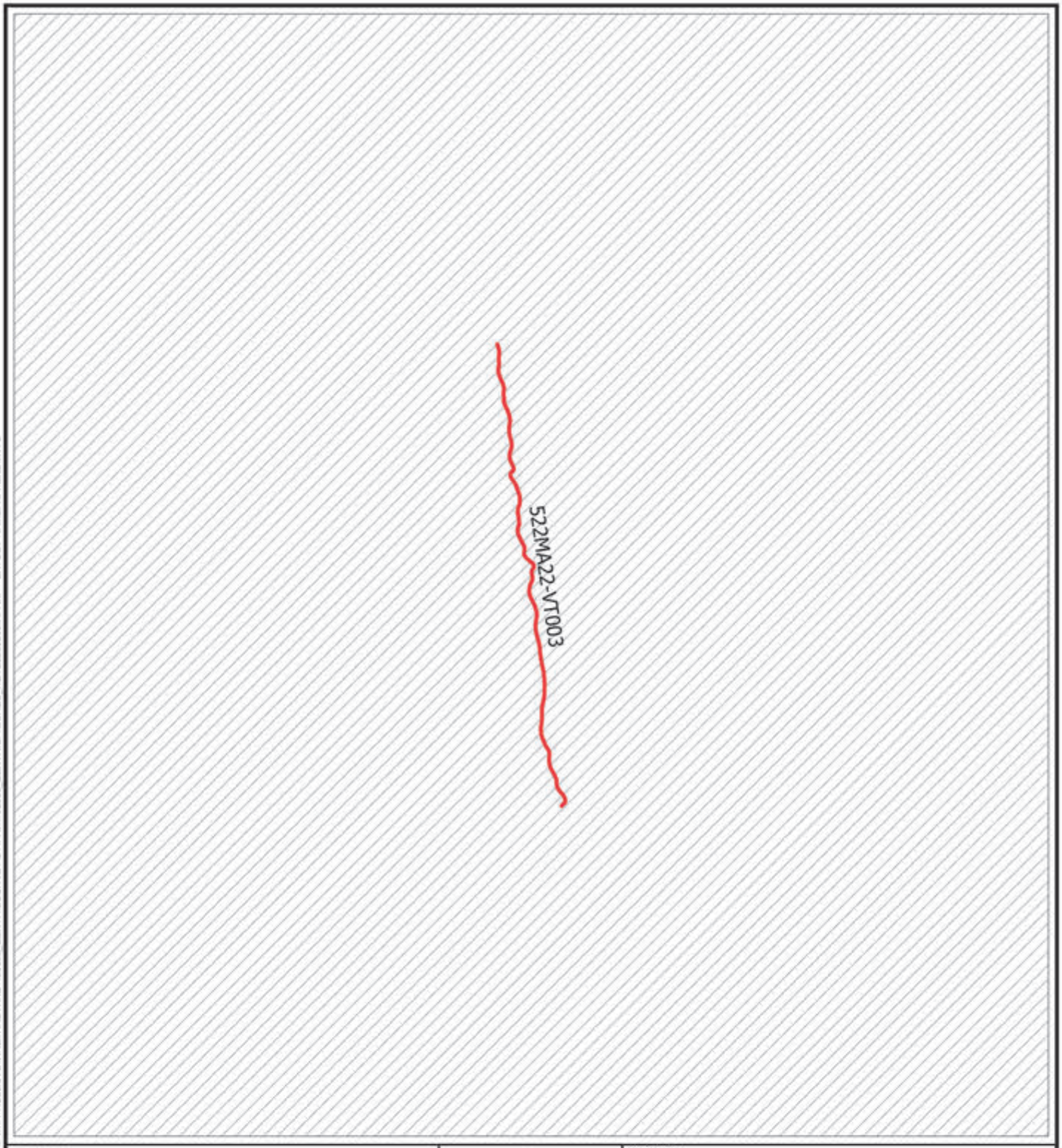
TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT002	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: MA OECC

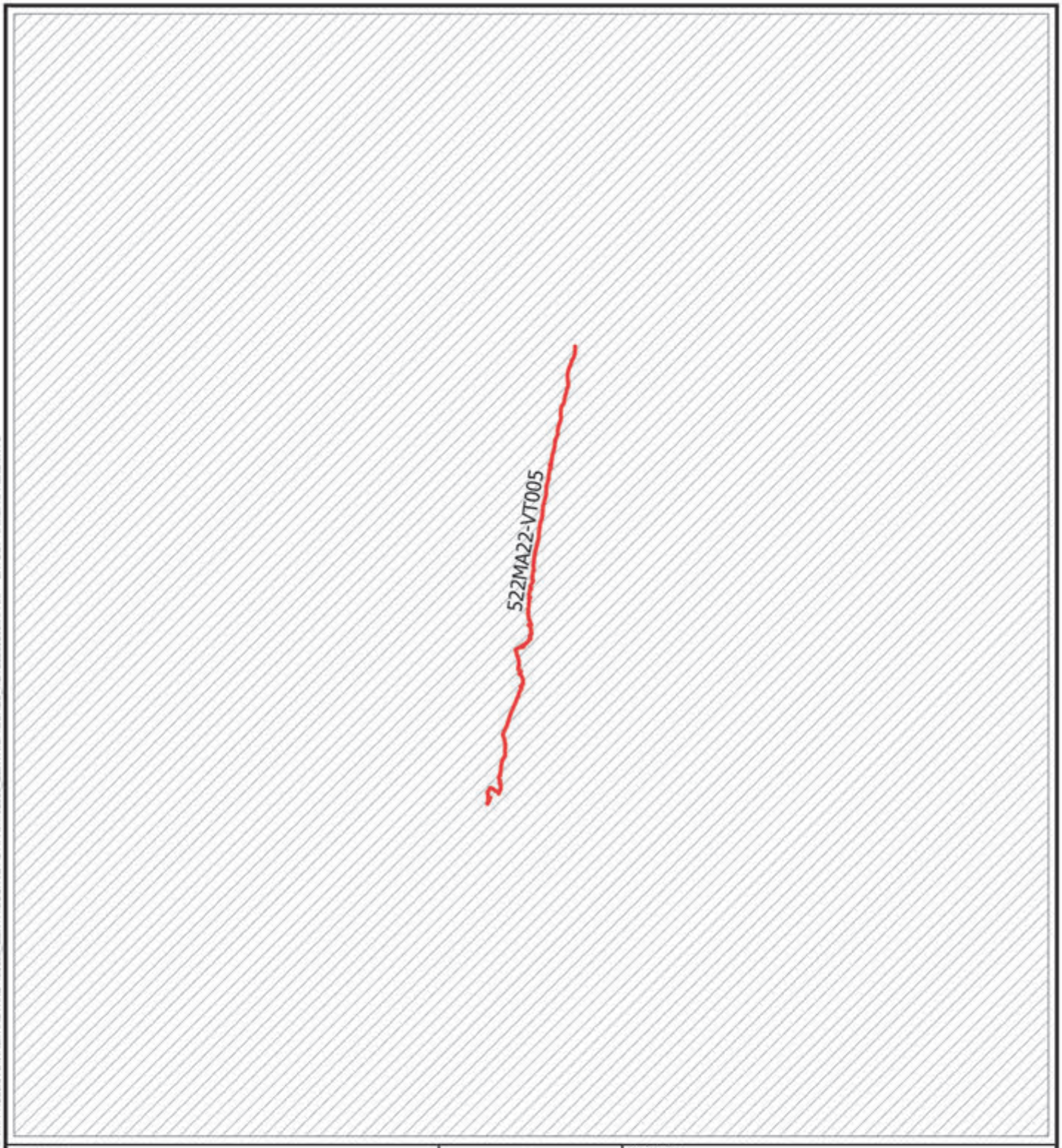
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT004	
DATE:	MARCH 2023		

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

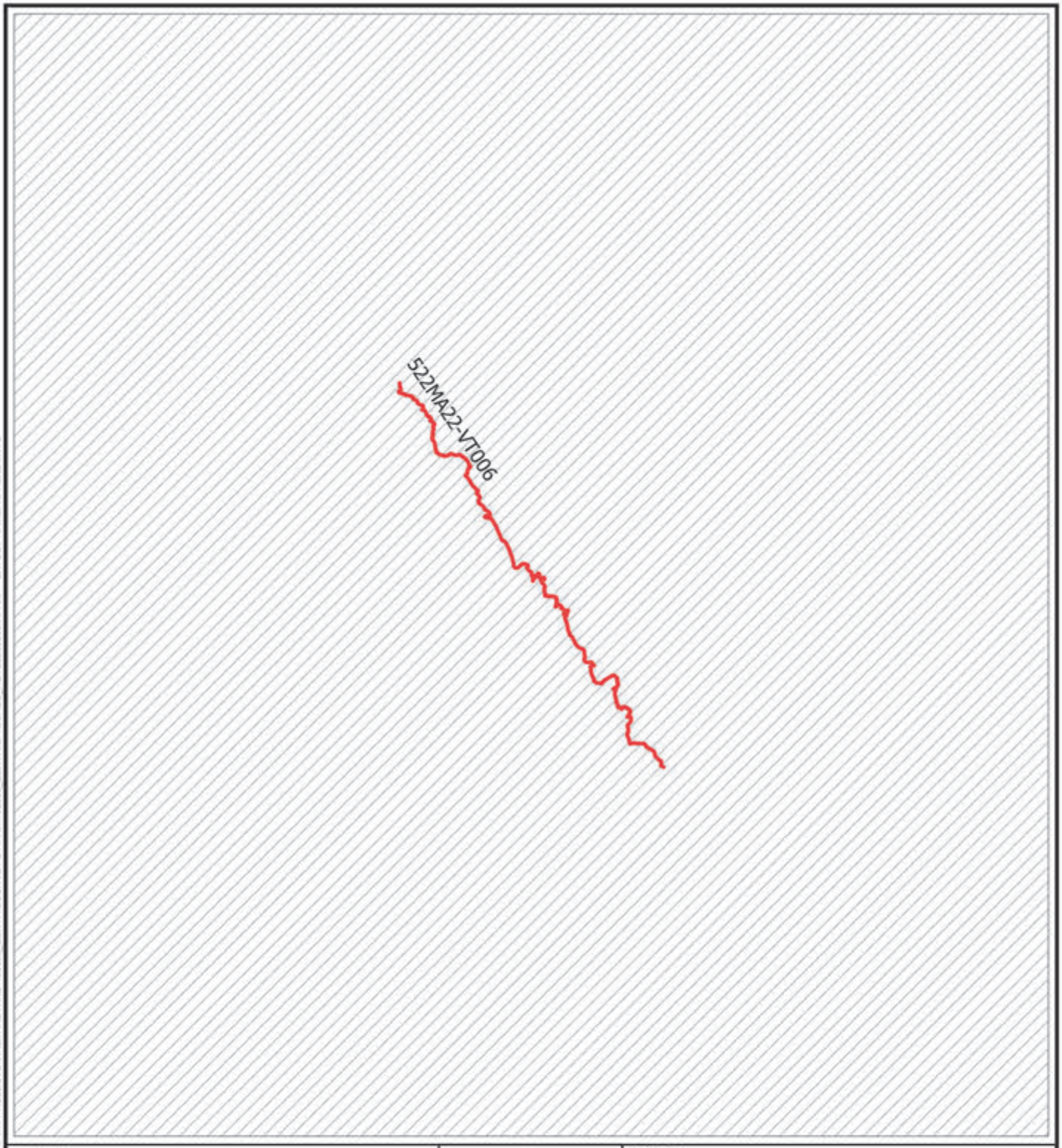
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

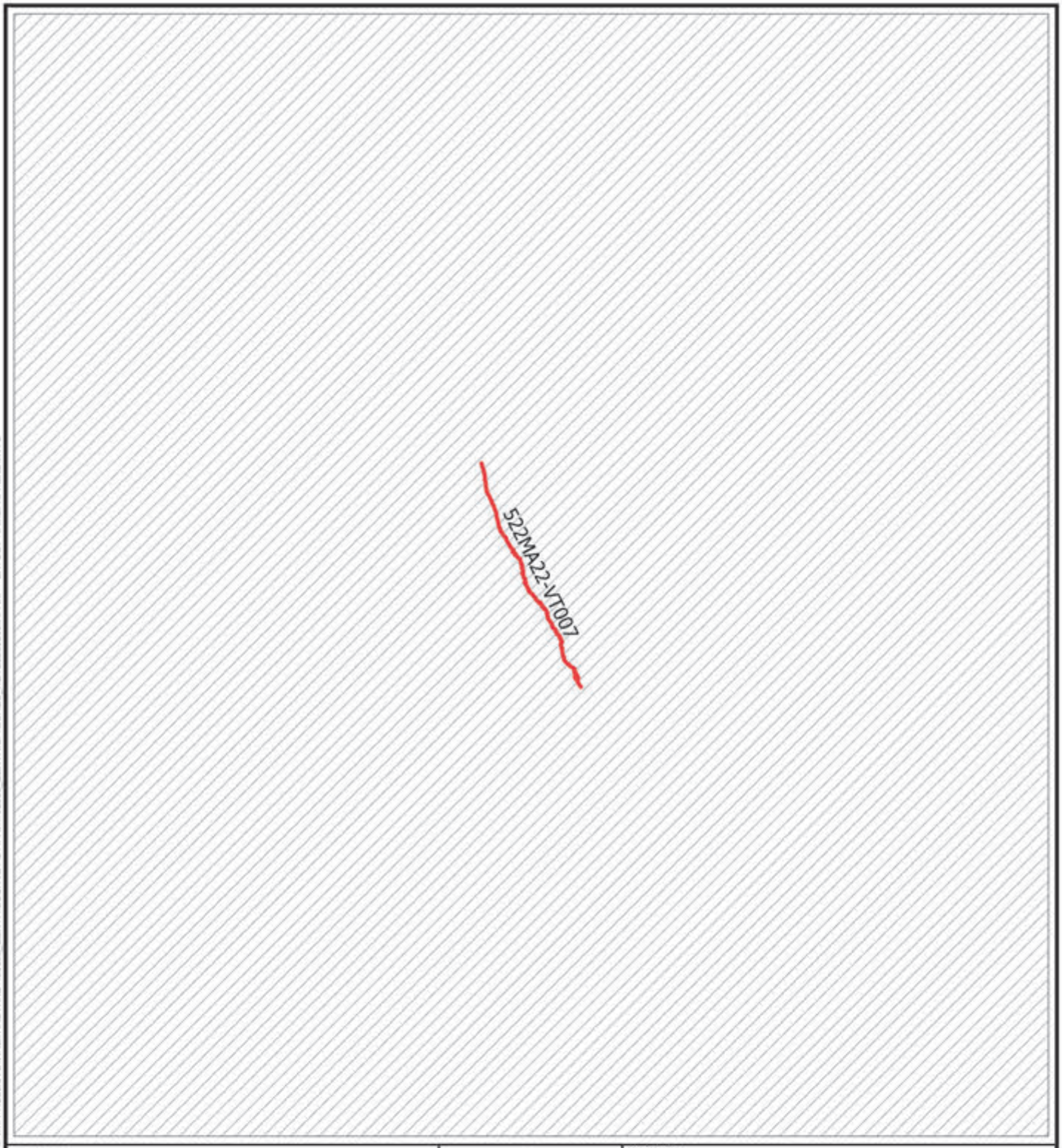
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT006

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04836_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

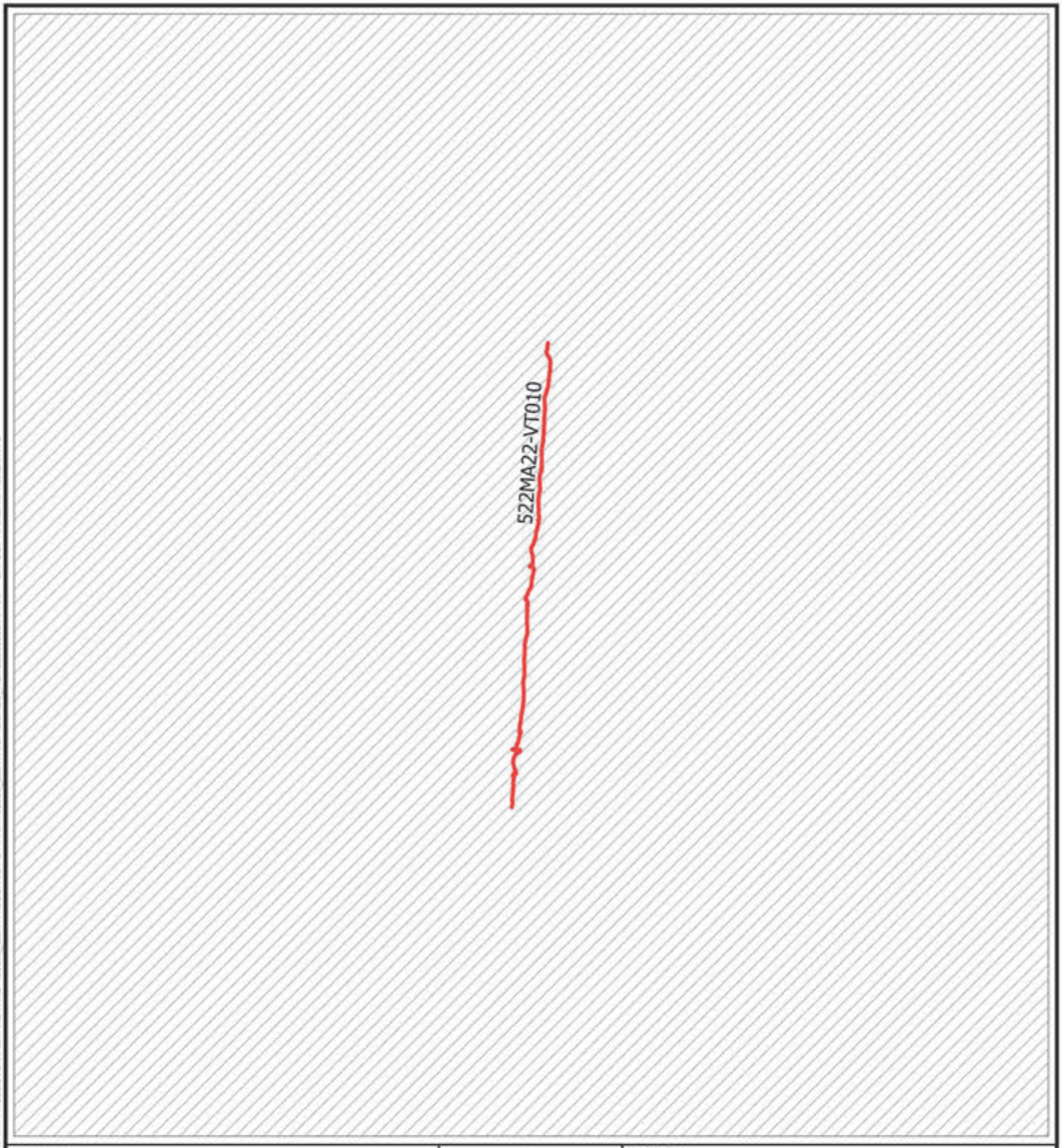
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

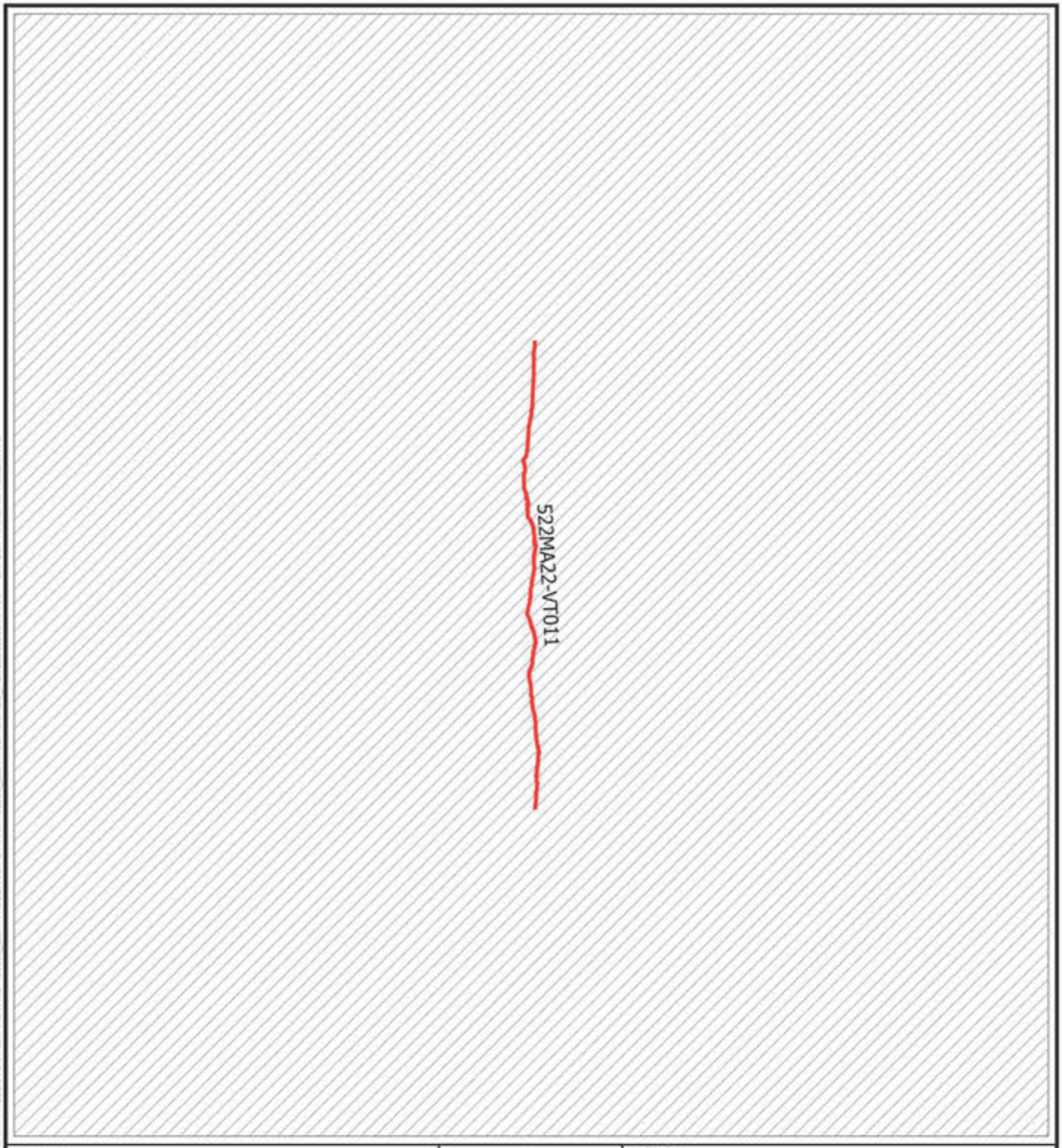
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM PLE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\0483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

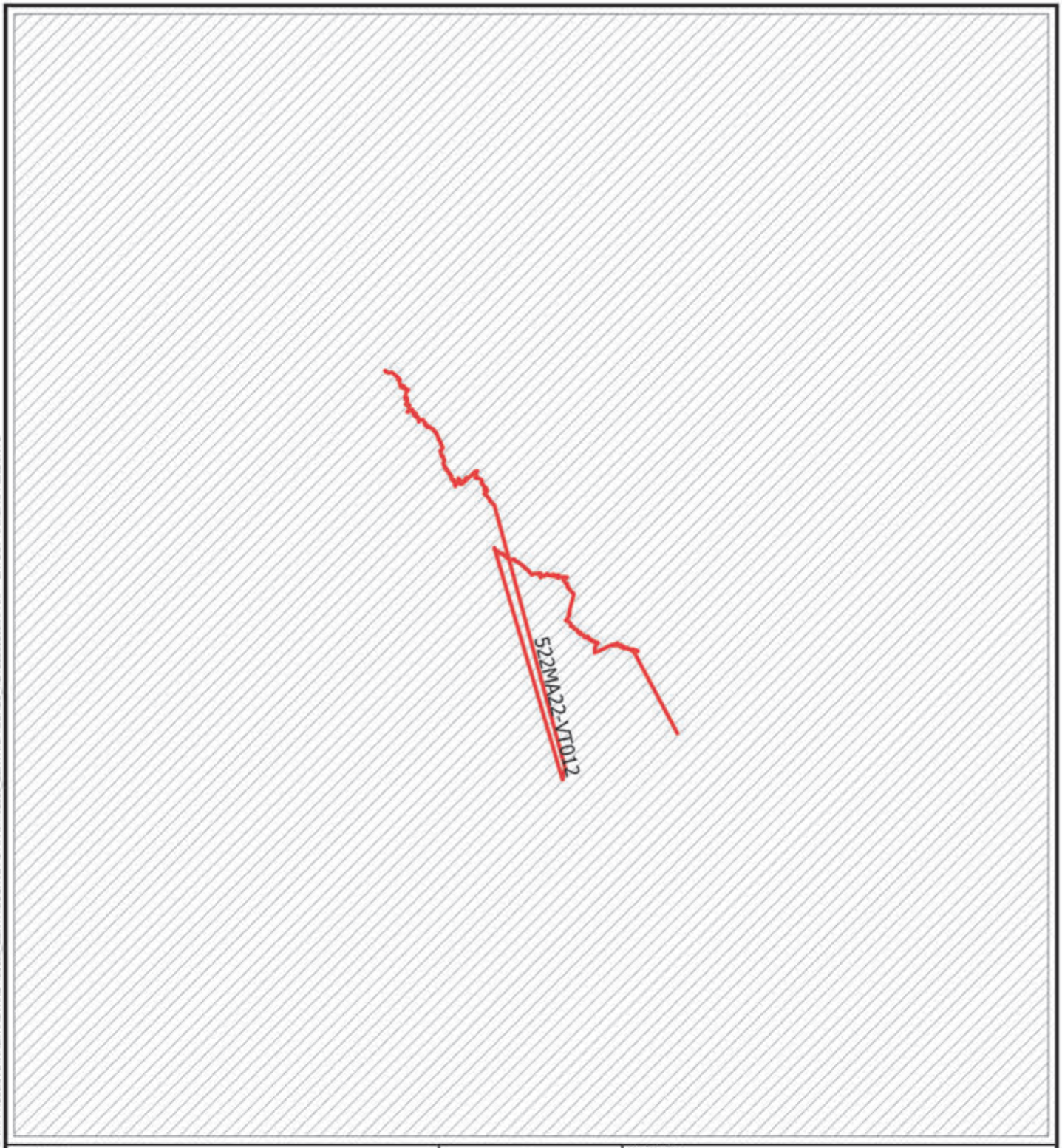
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

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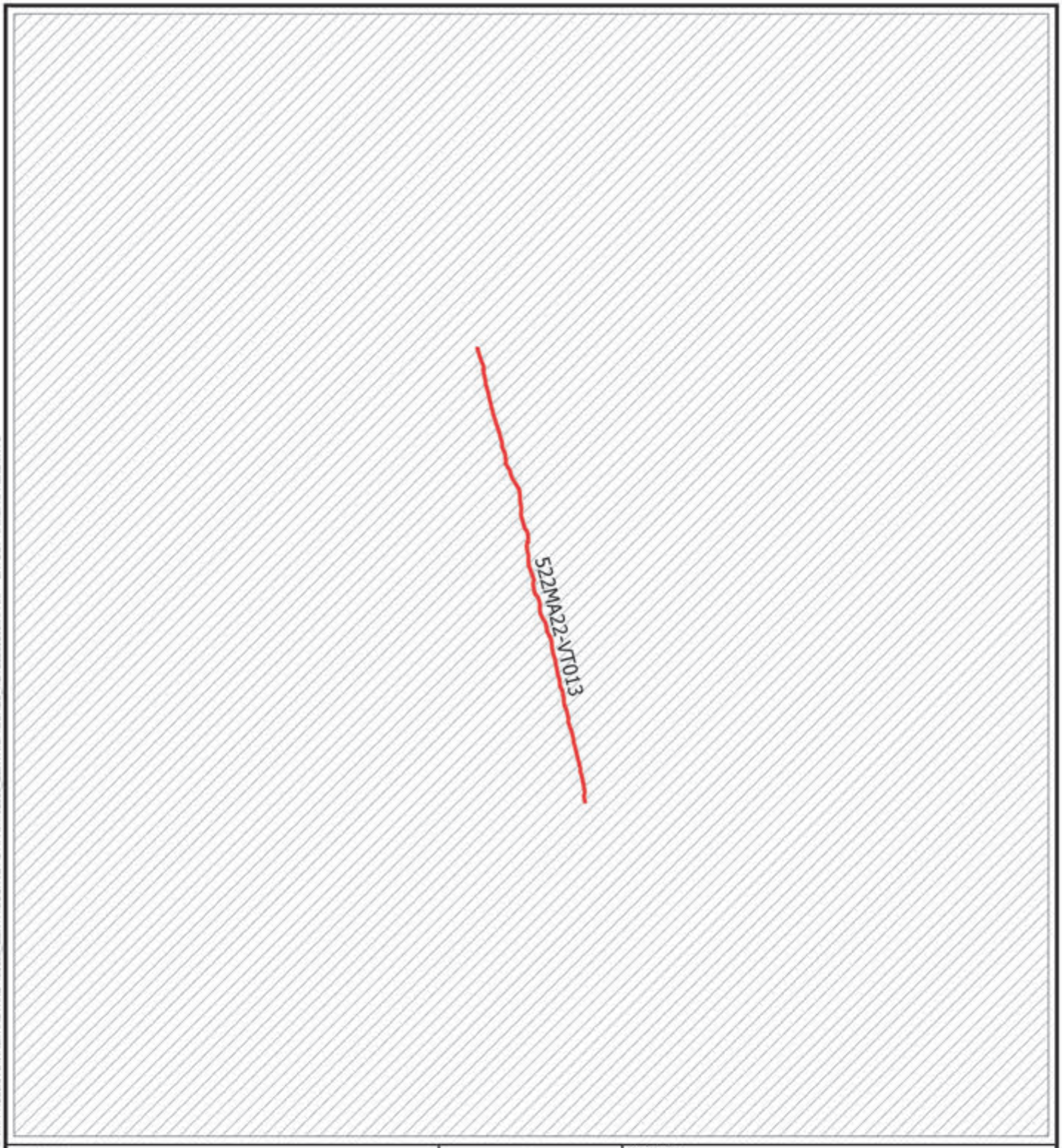


MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

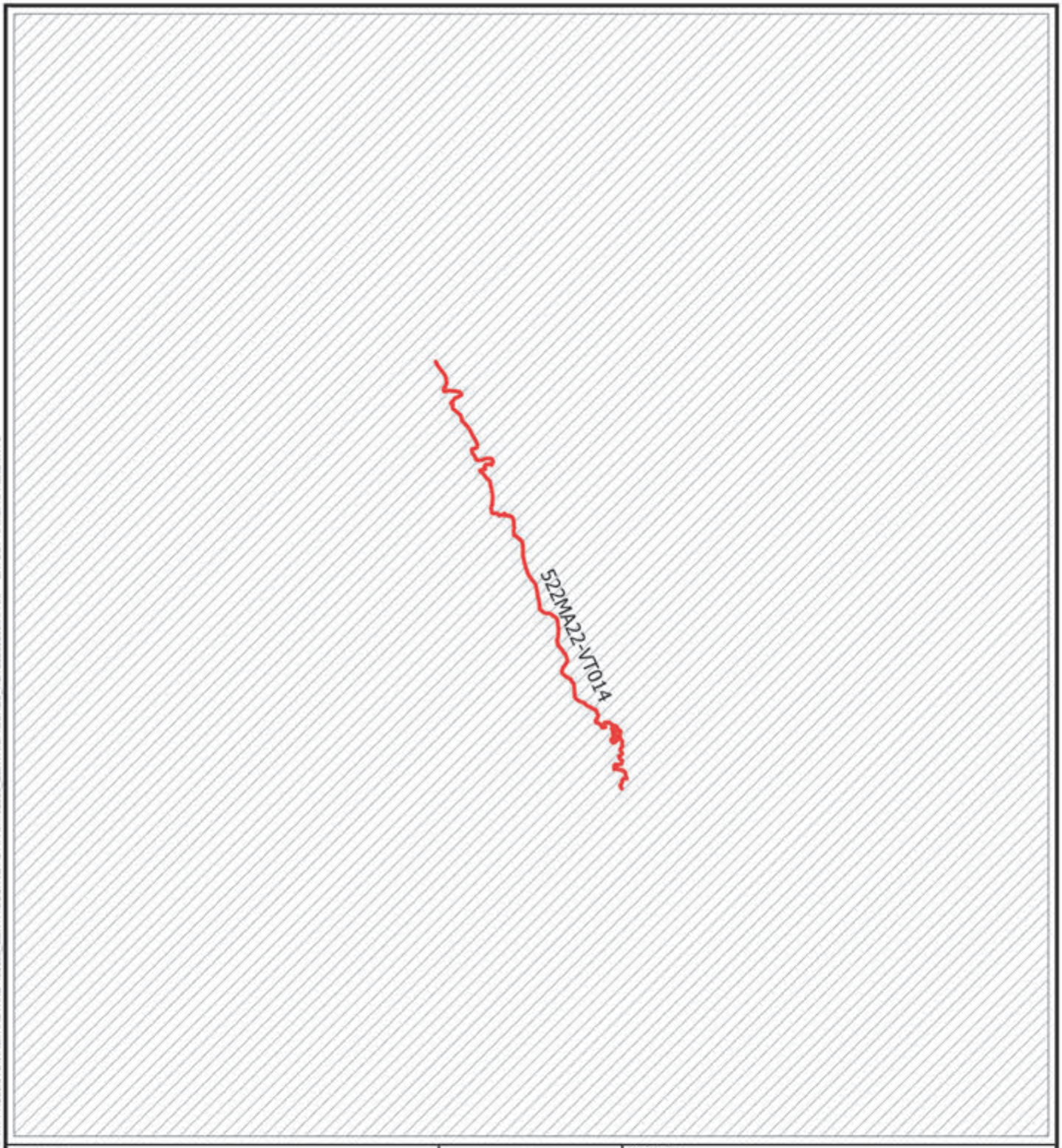
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04836_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

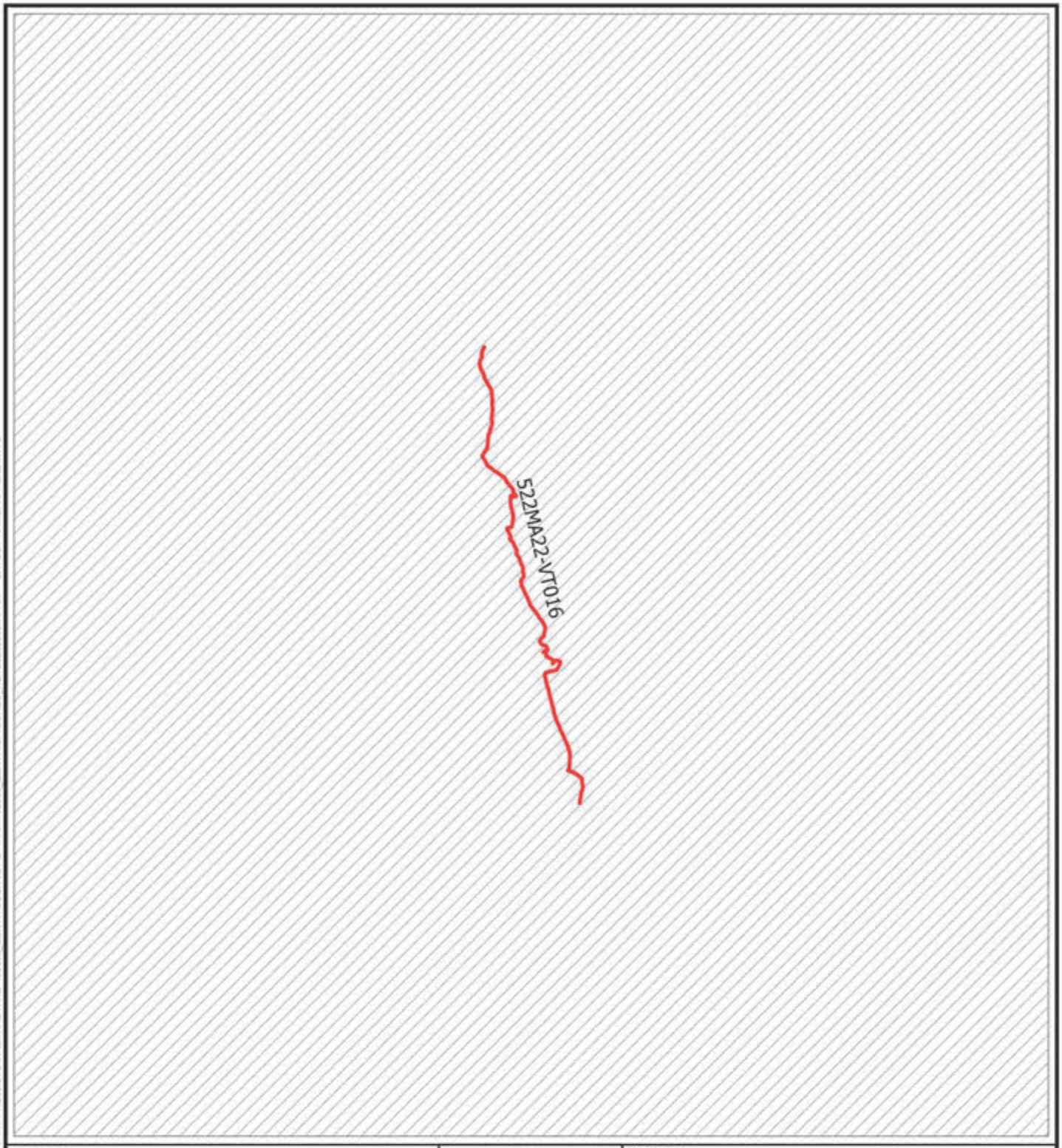
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT015

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

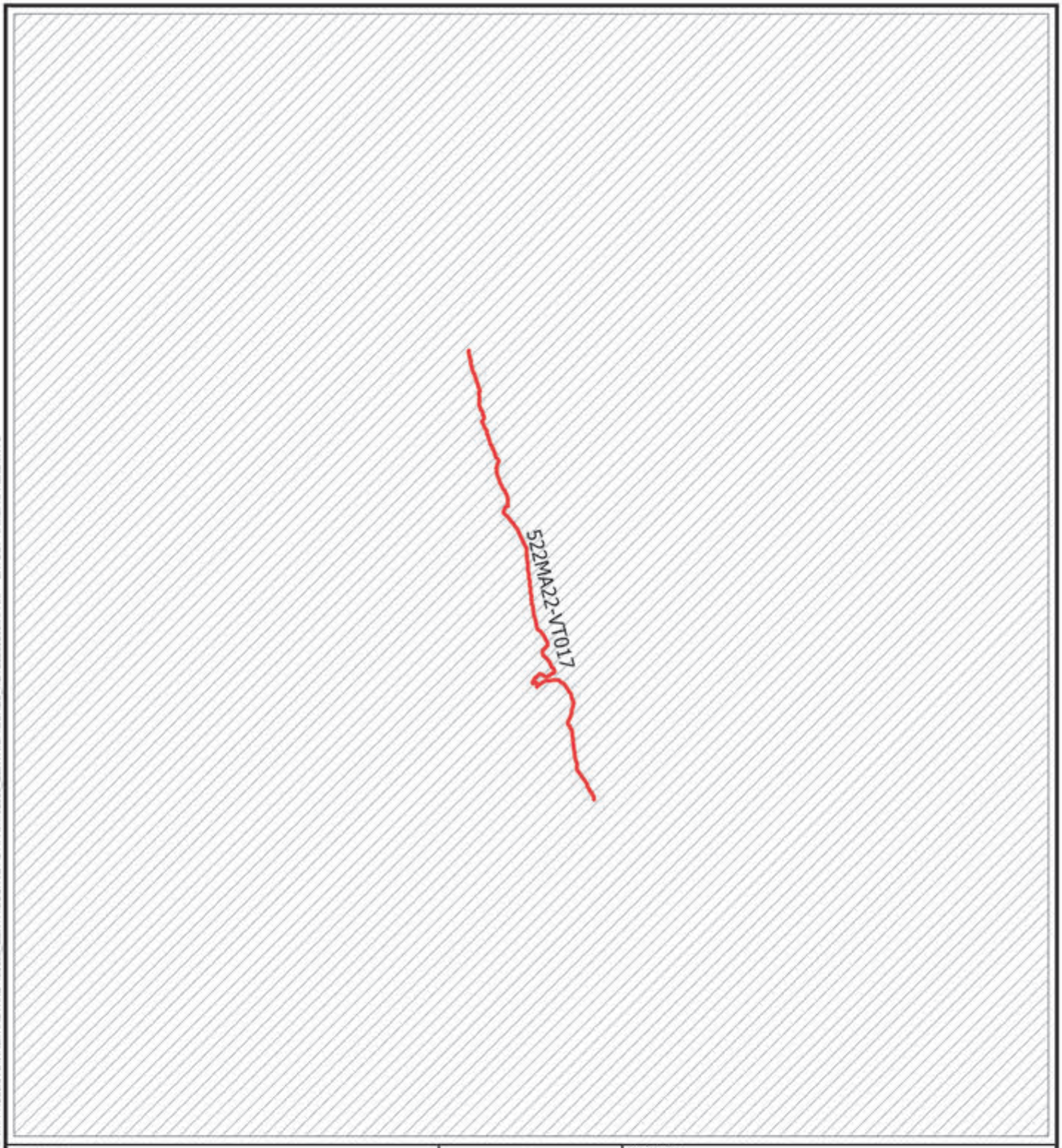
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

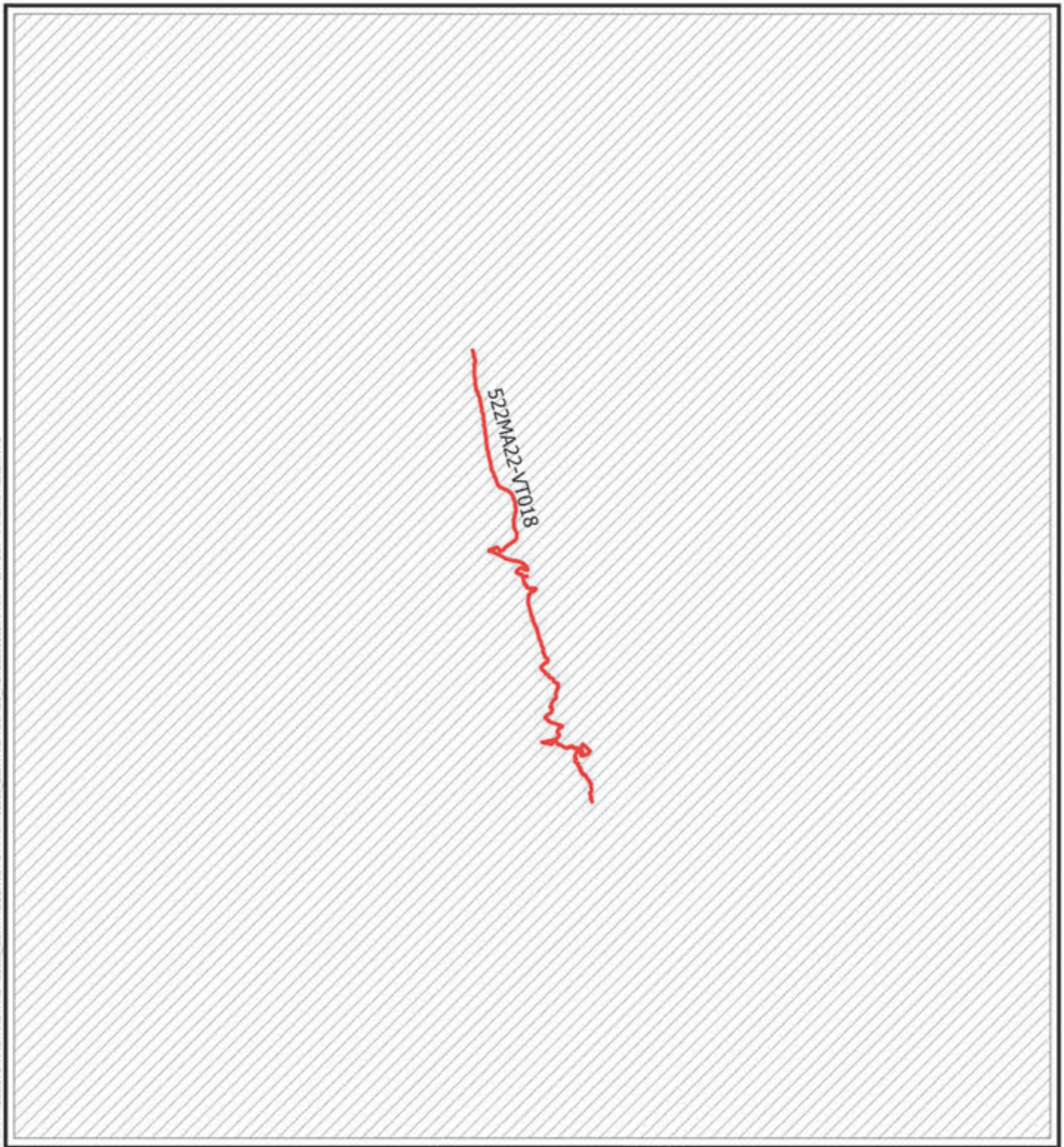
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT017

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\0483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

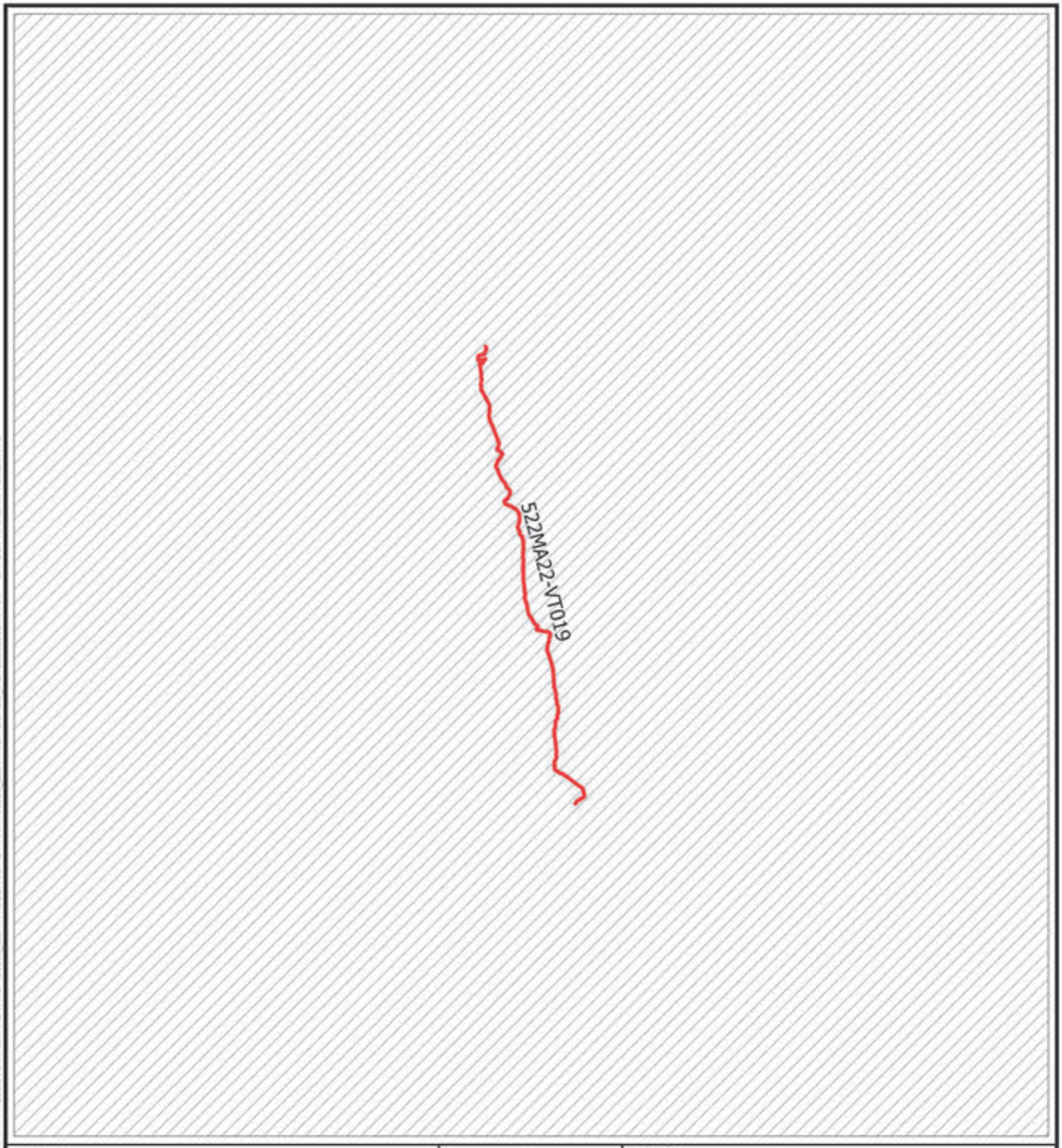
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECT\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

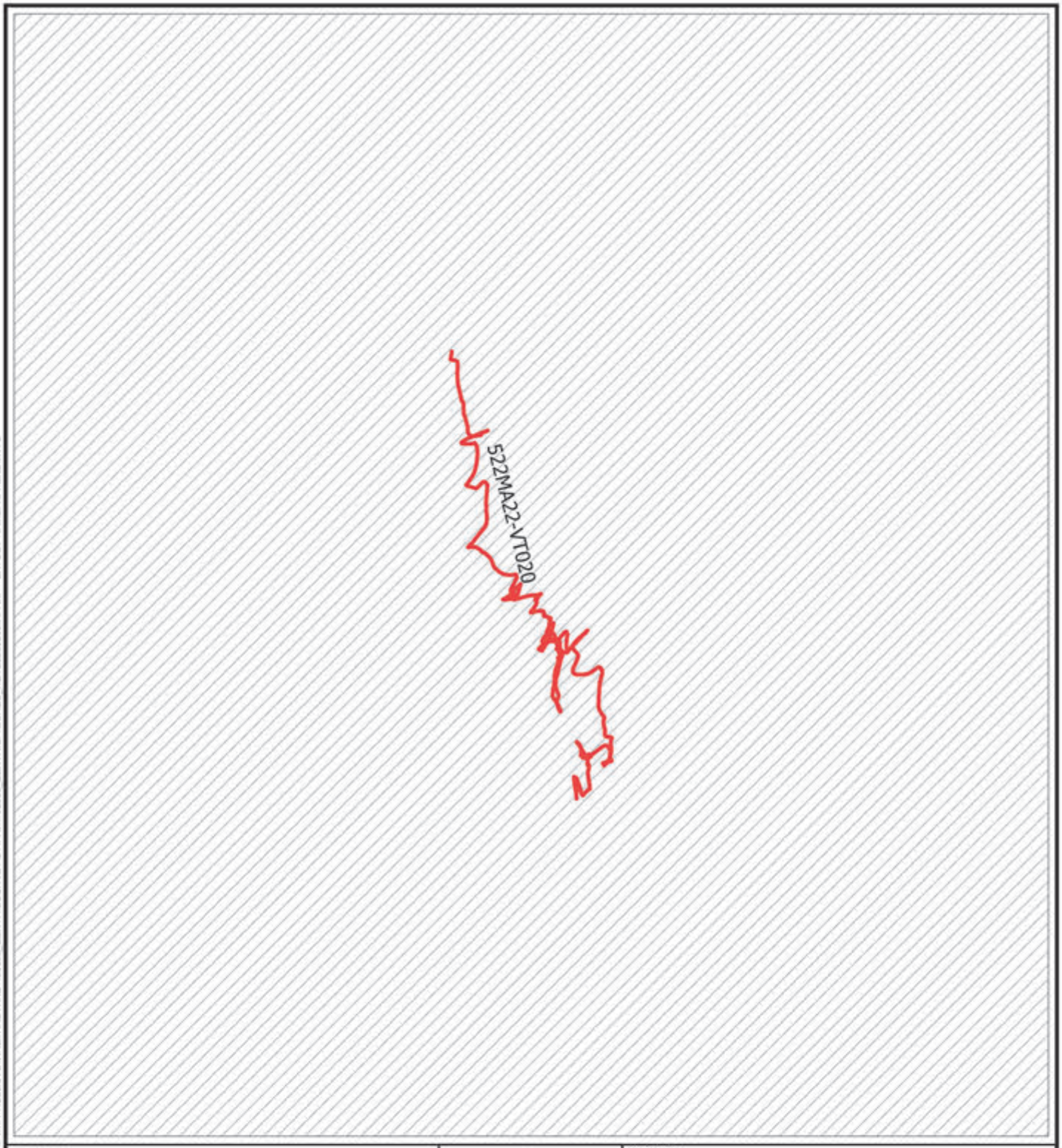
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT019

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

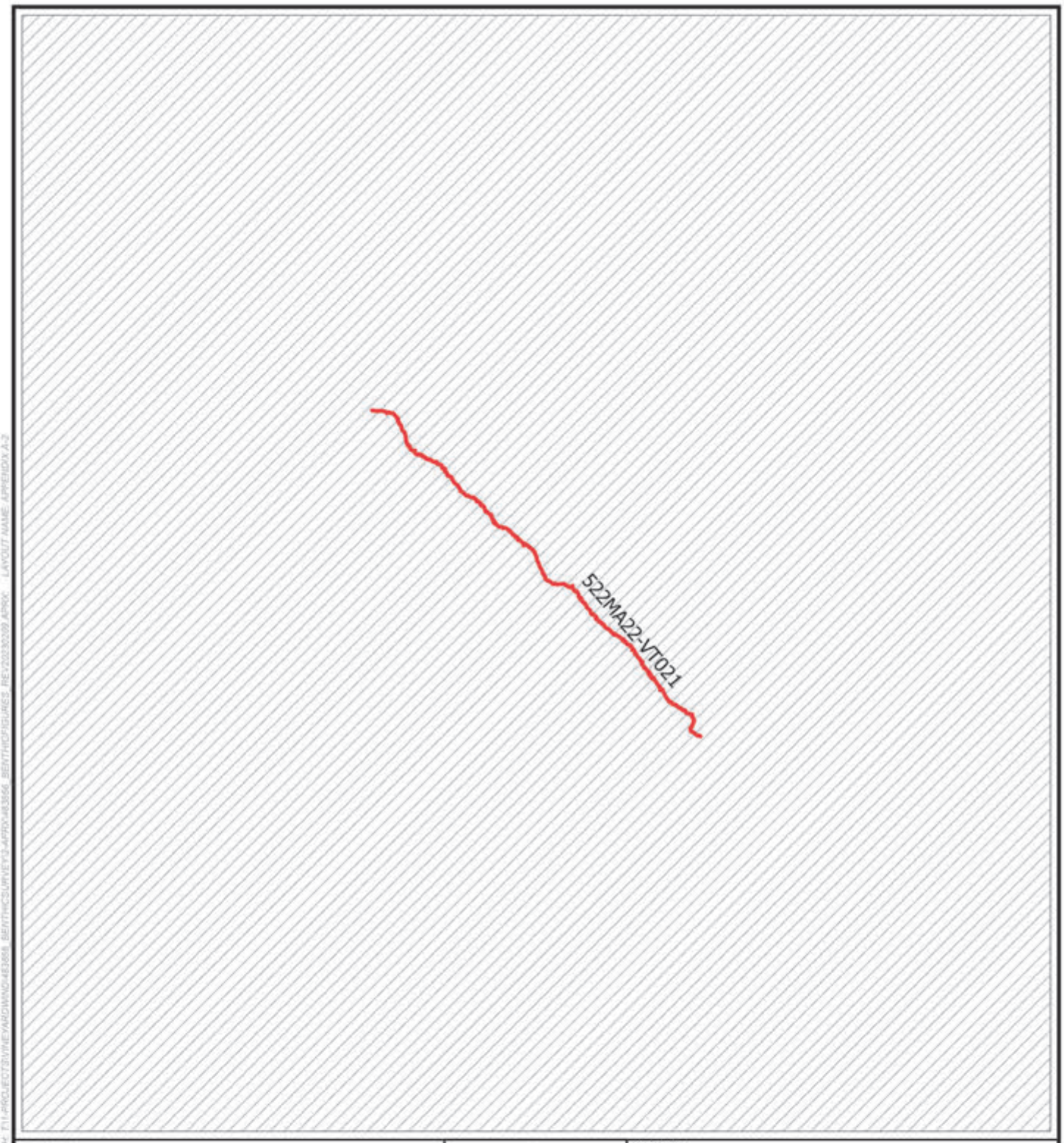
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT020

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: T:\PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT021	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

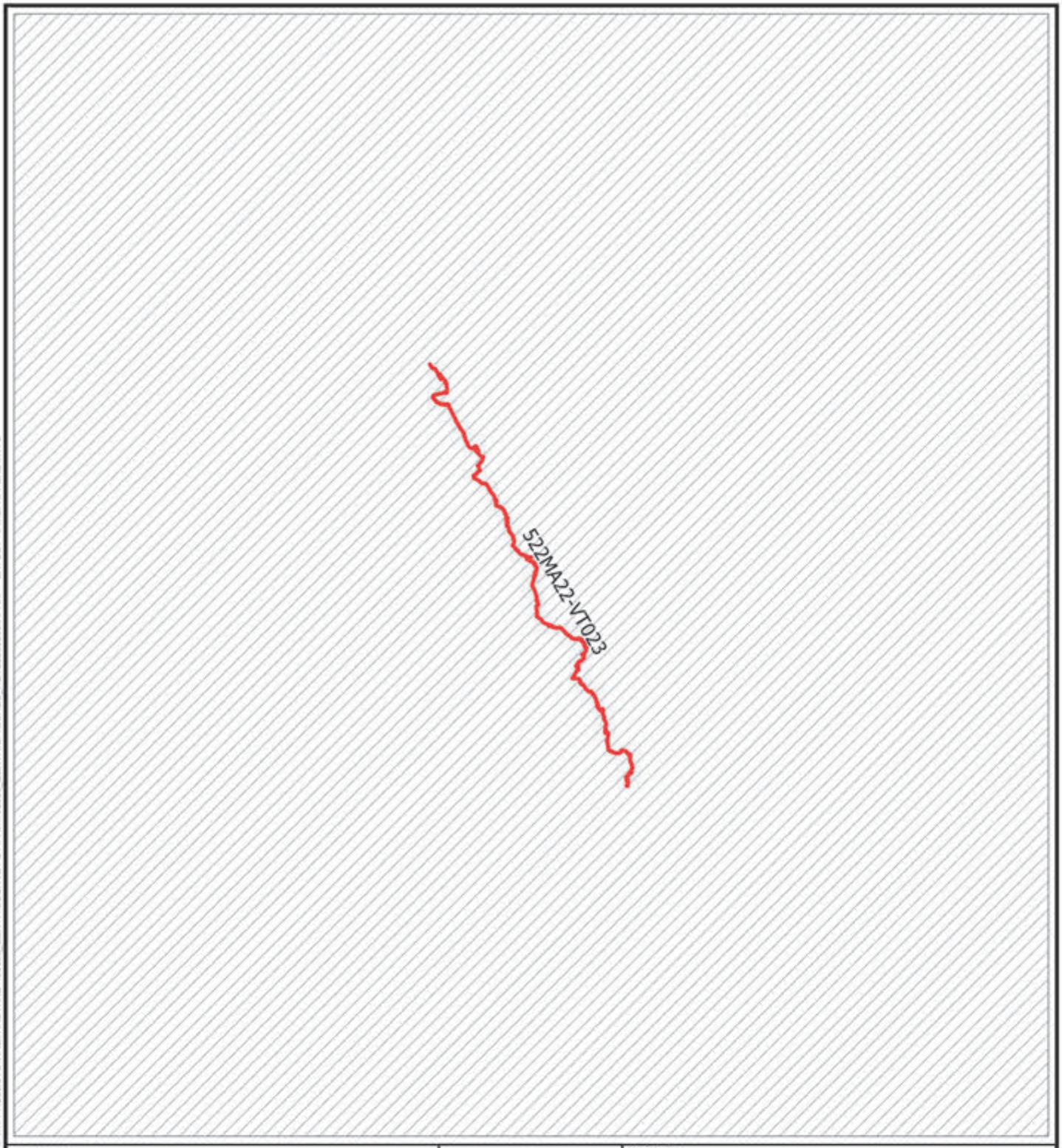
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT022ALT

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

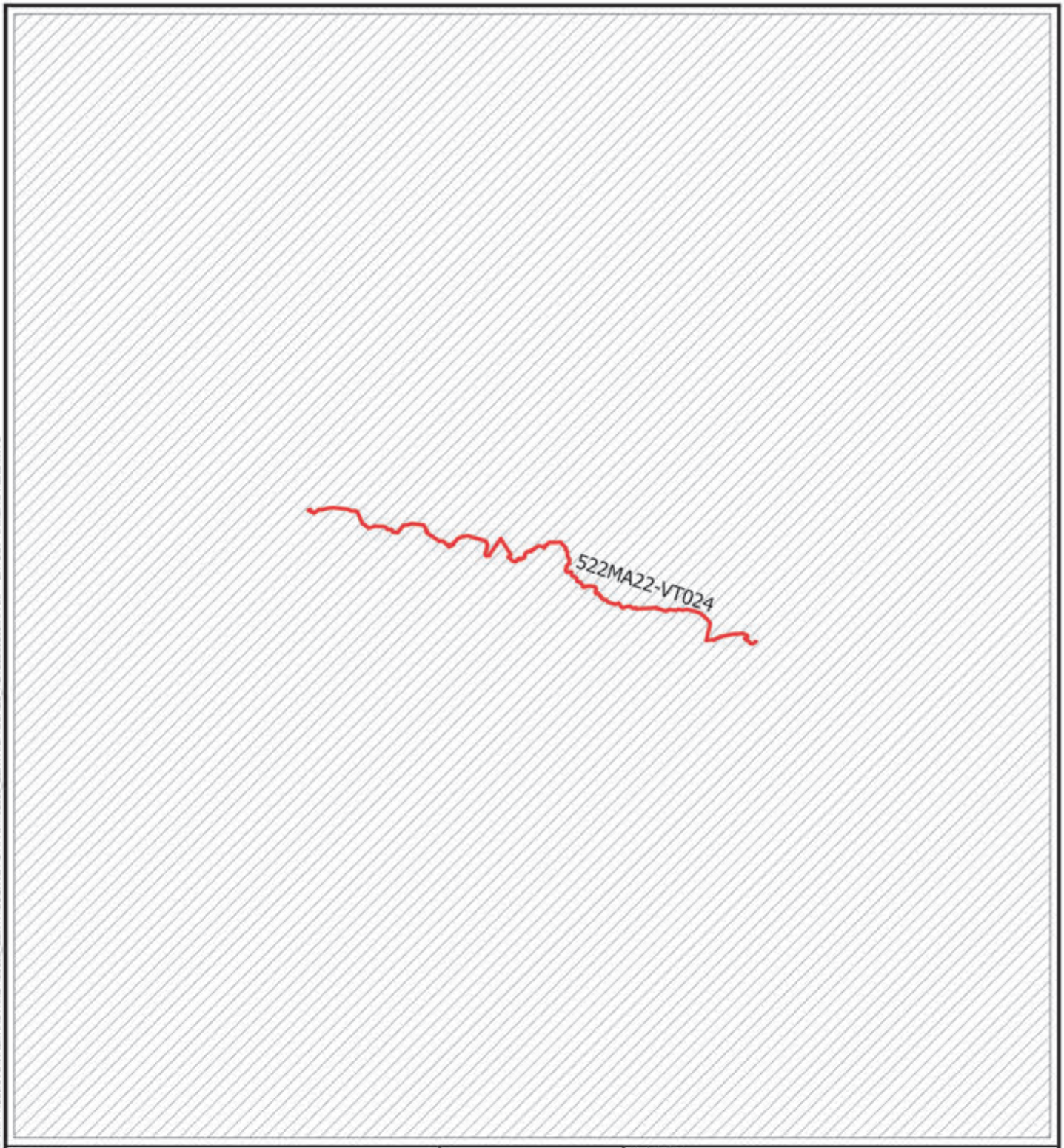
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT023

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

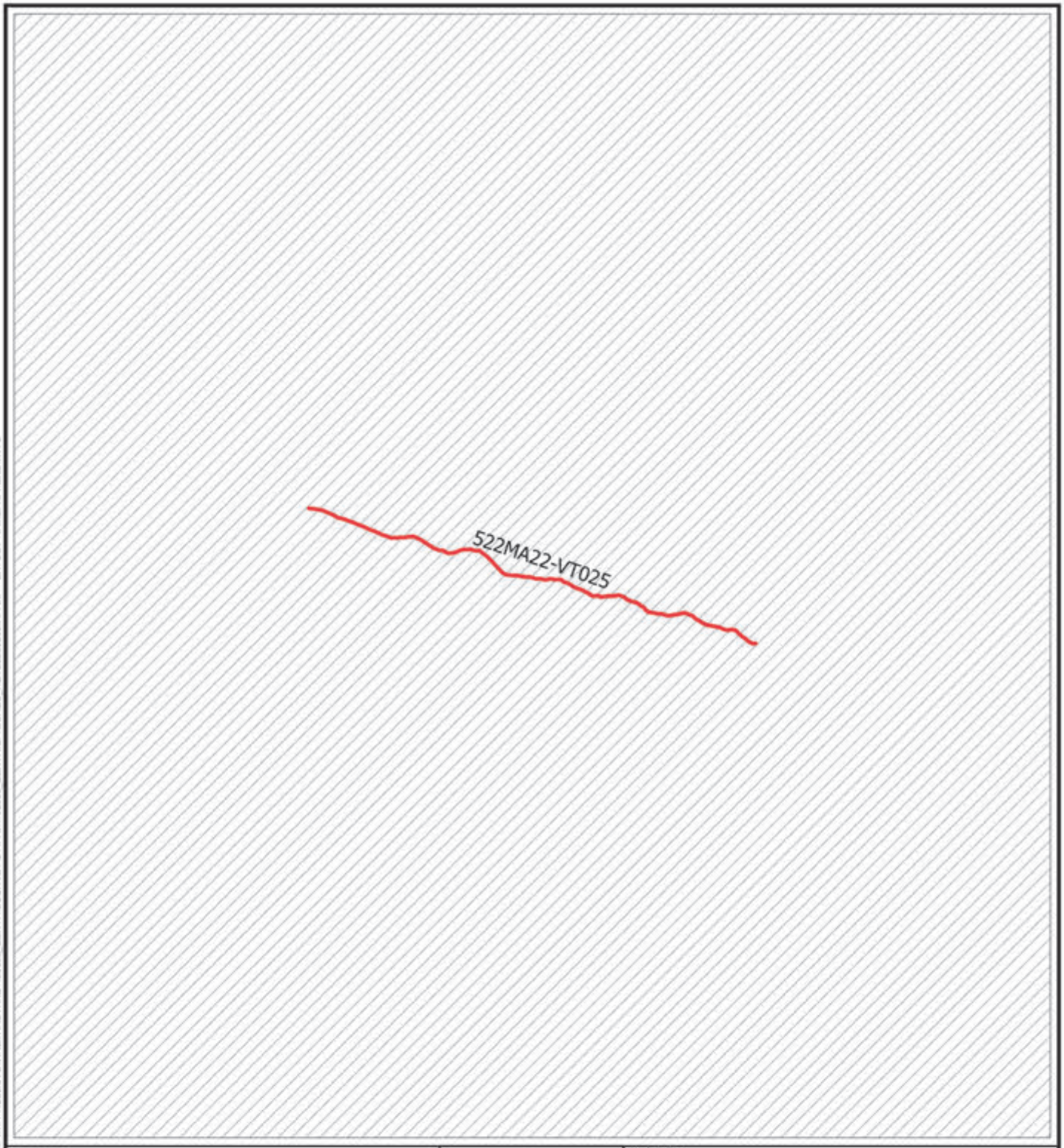
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT024

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

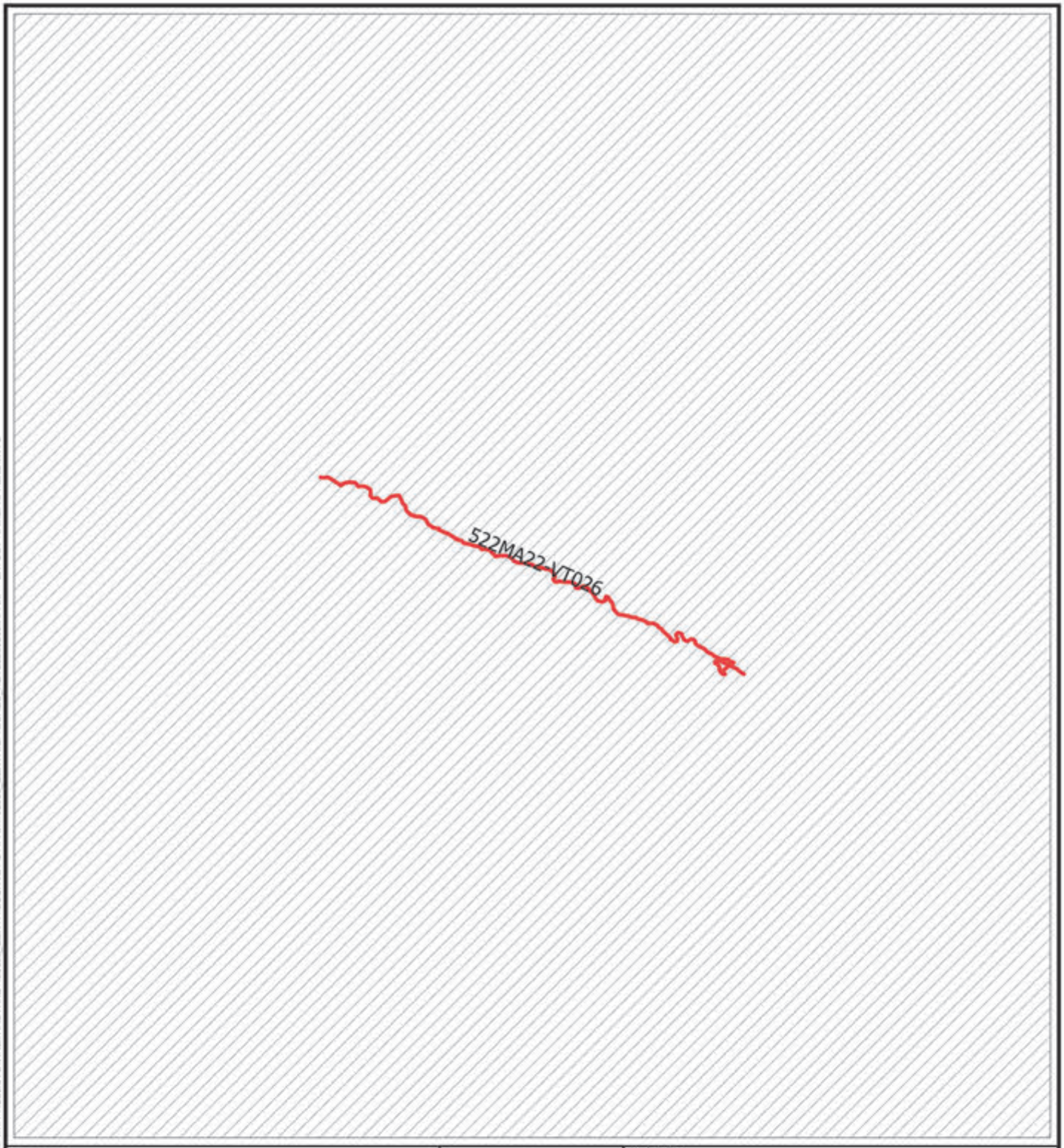
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT025

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT026	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\0483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

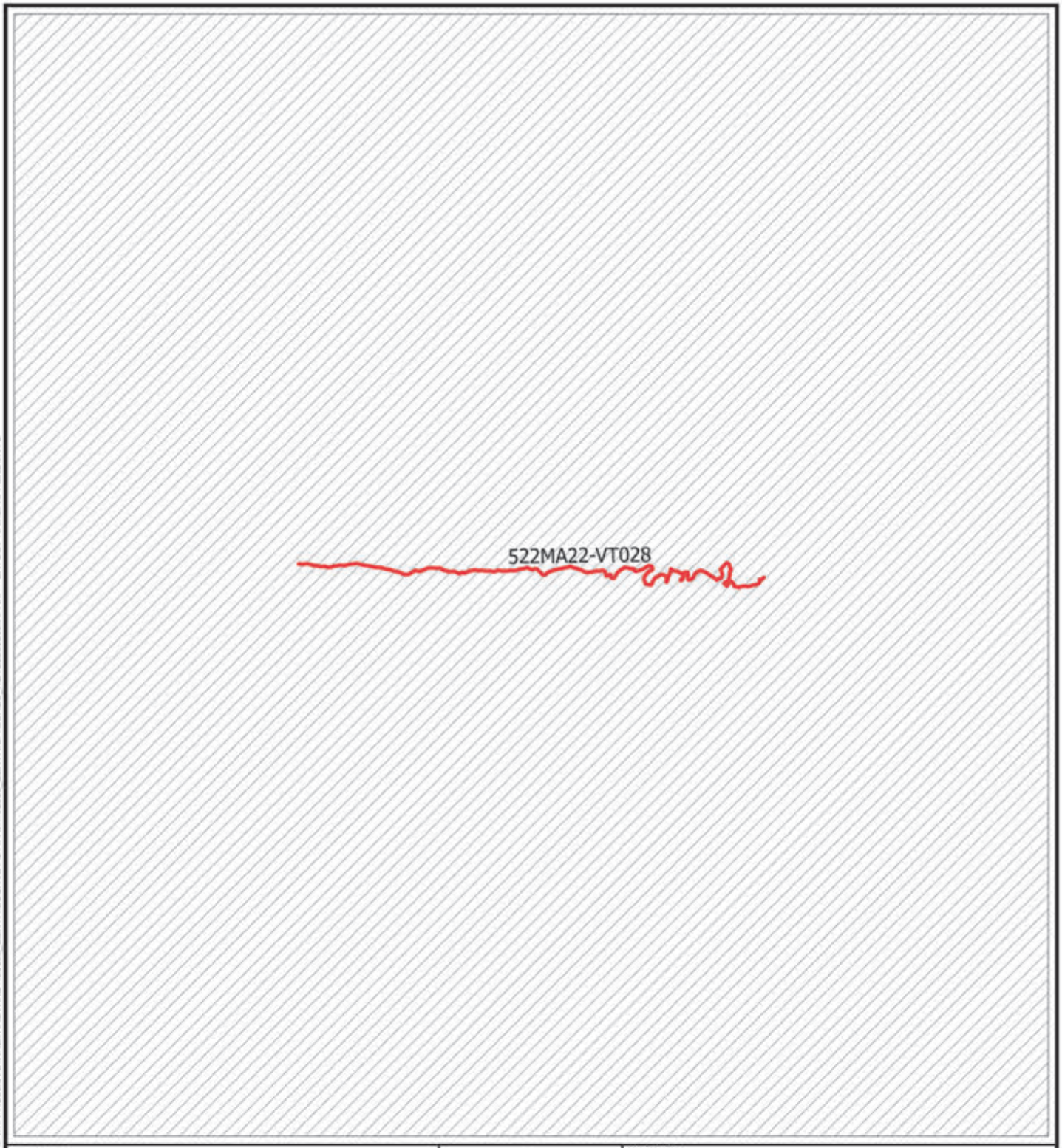
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT027

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEYS-APR\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT028

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

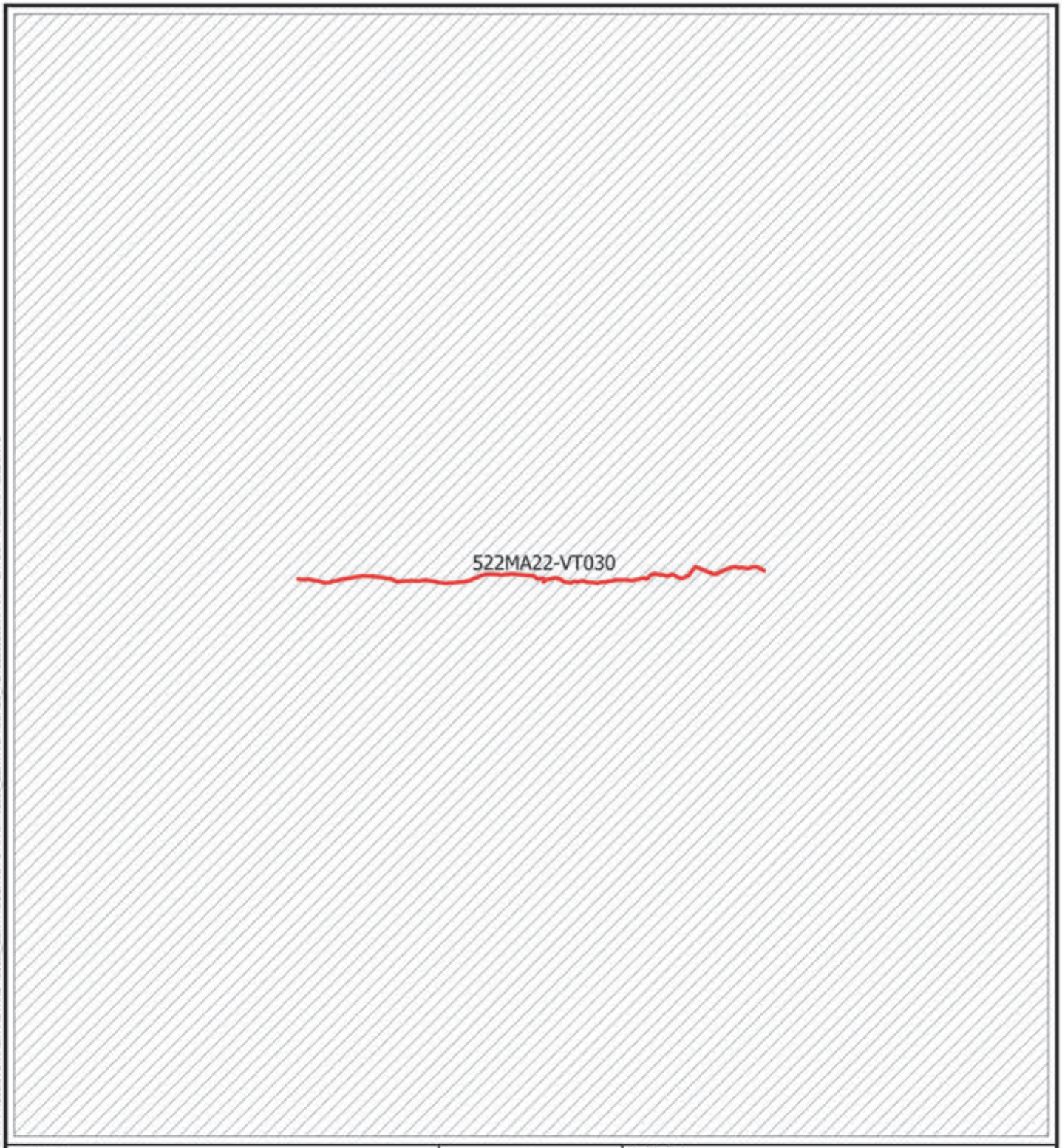
Appendix A-2
Transect: 522MA22-VT029

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: I:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

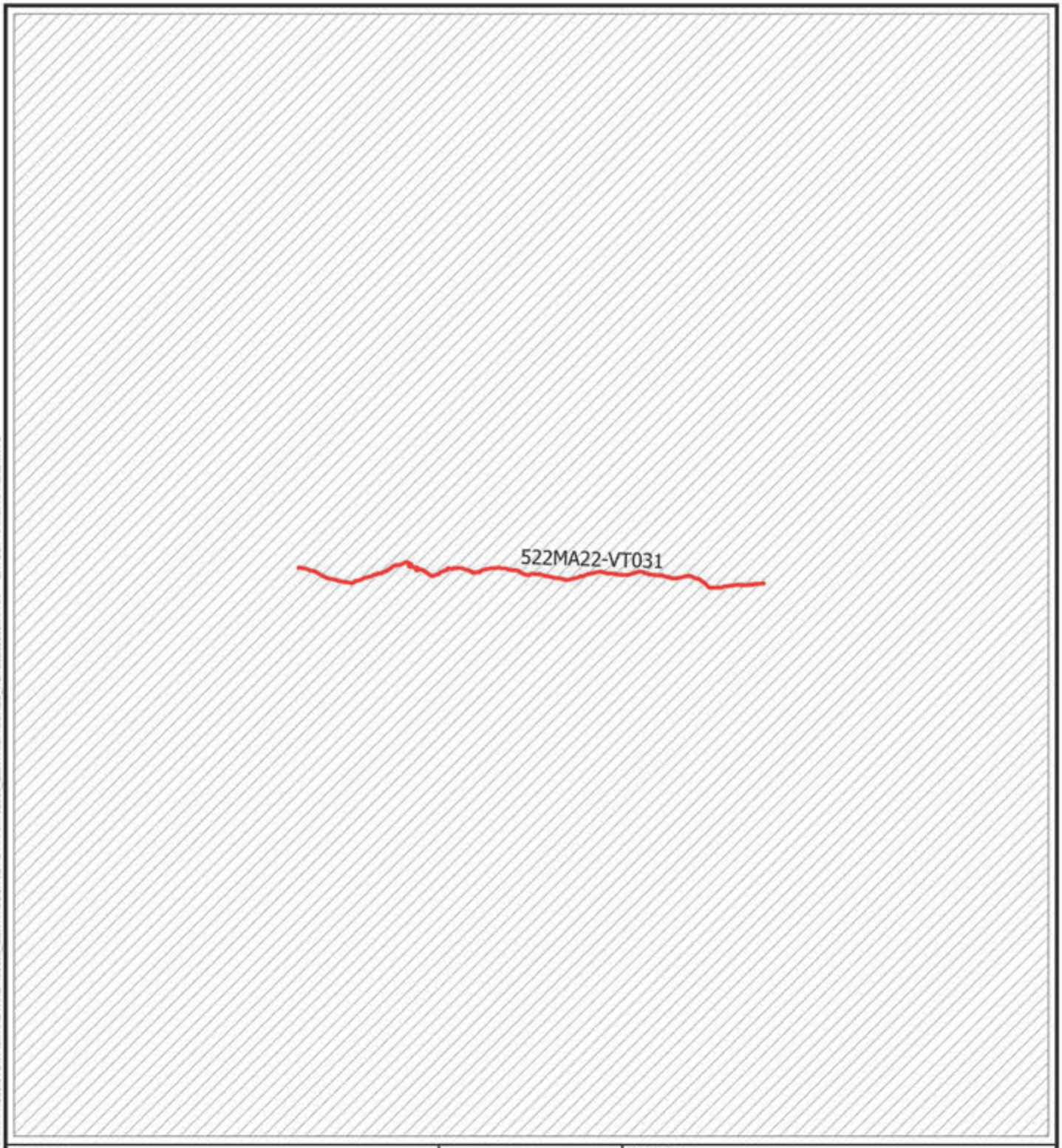
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT030

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

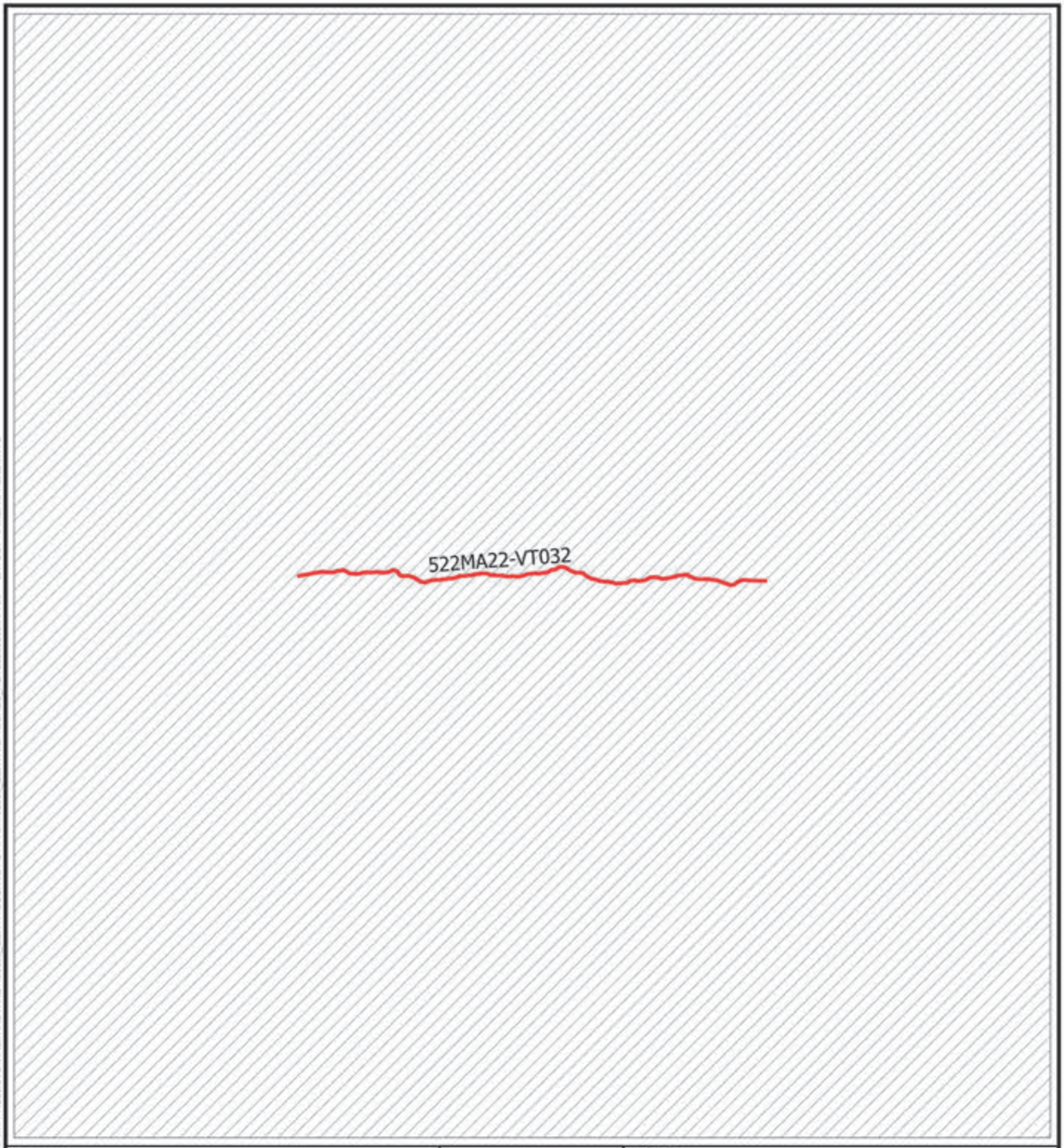
TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT031	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: I:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

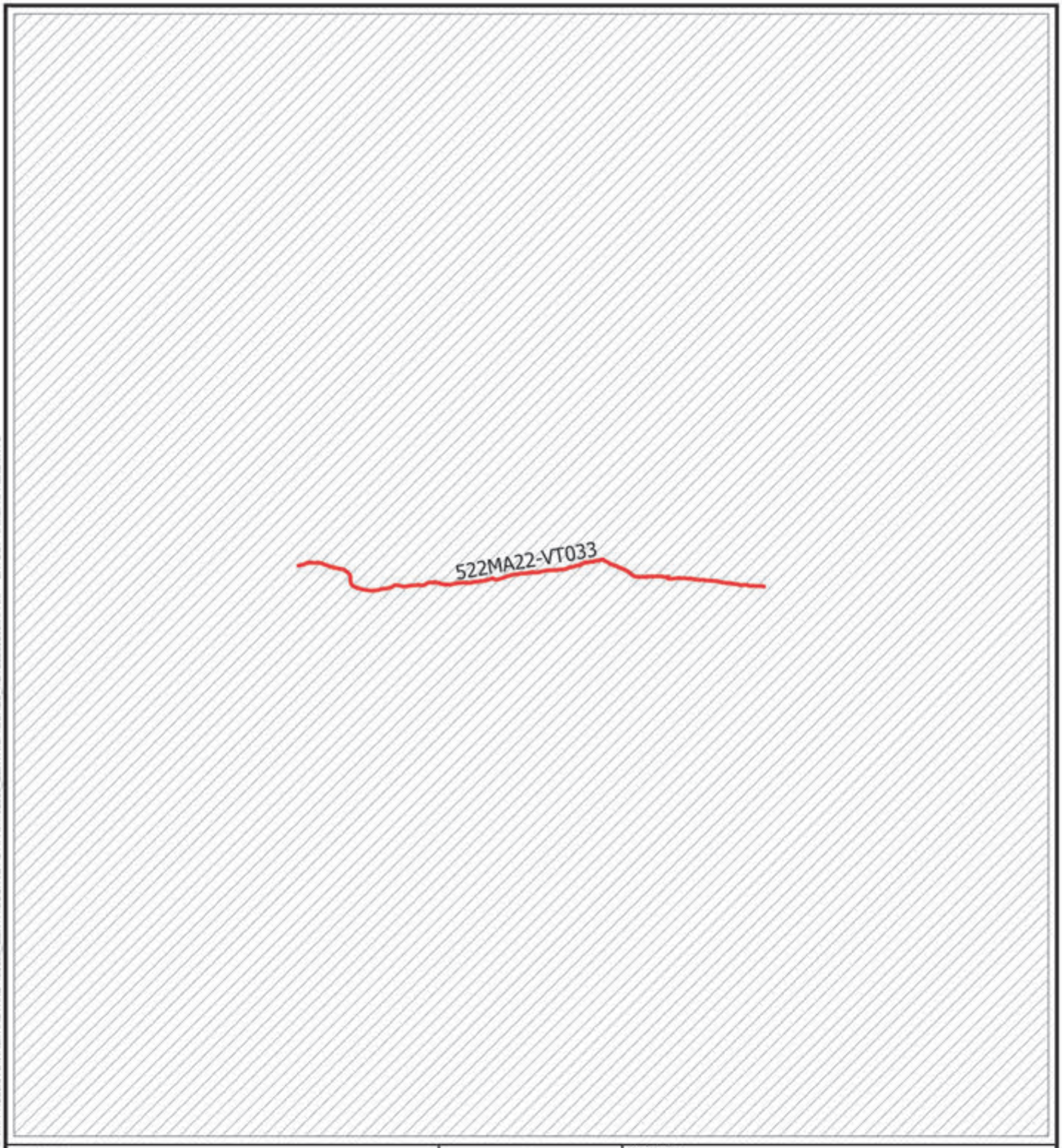
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT032

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECT\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

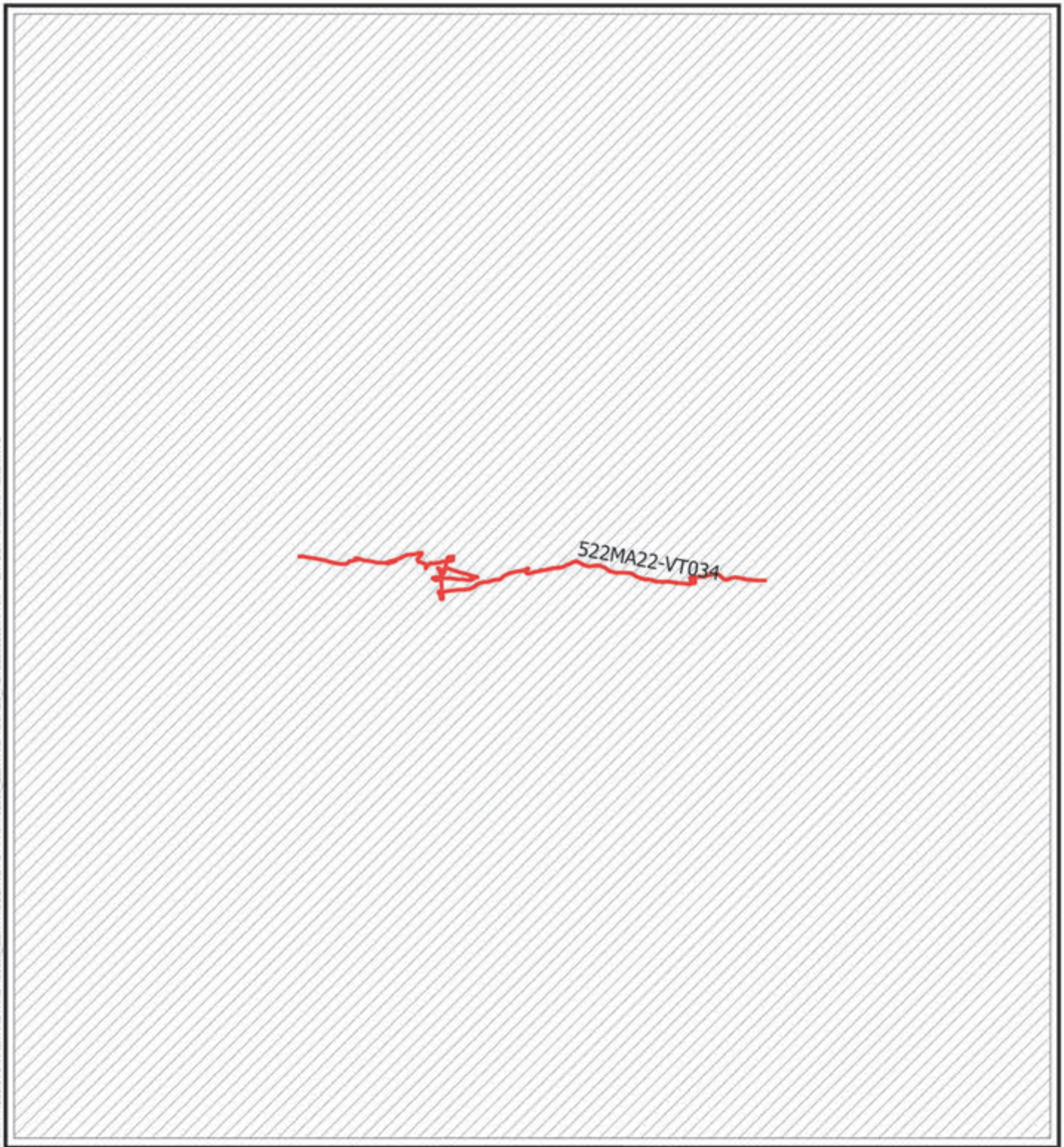
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT033

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

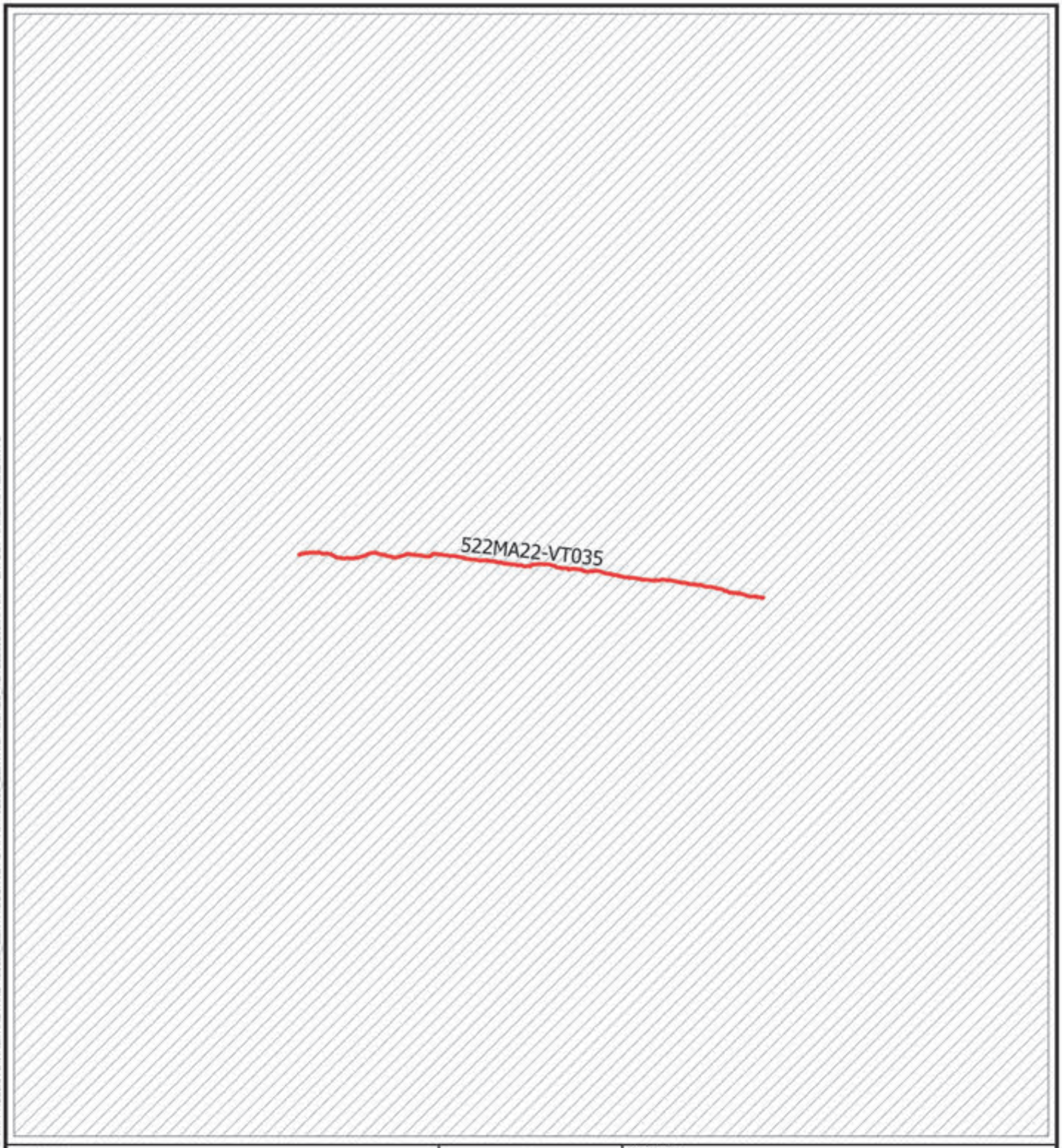
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT034

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

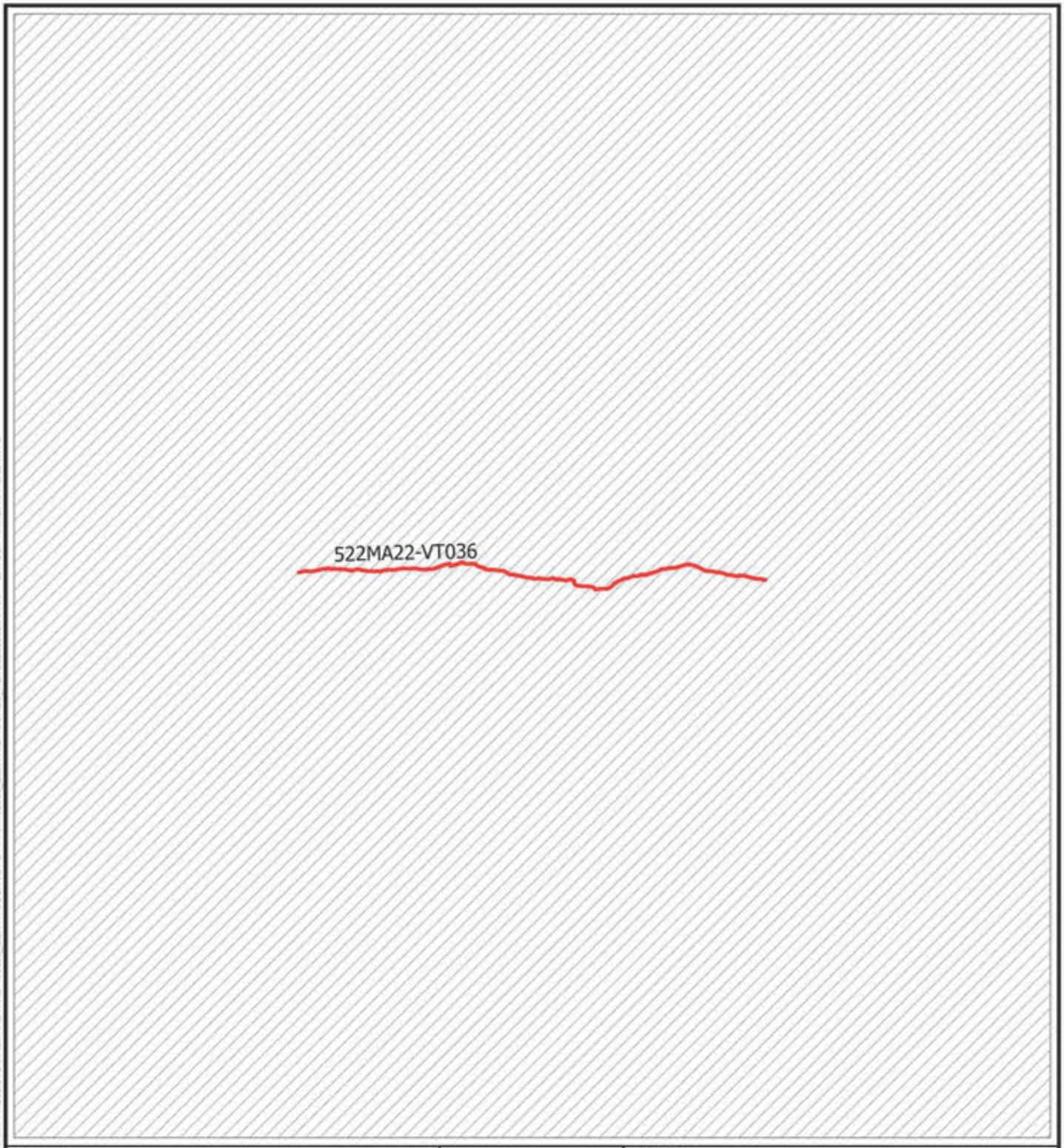
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT035

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

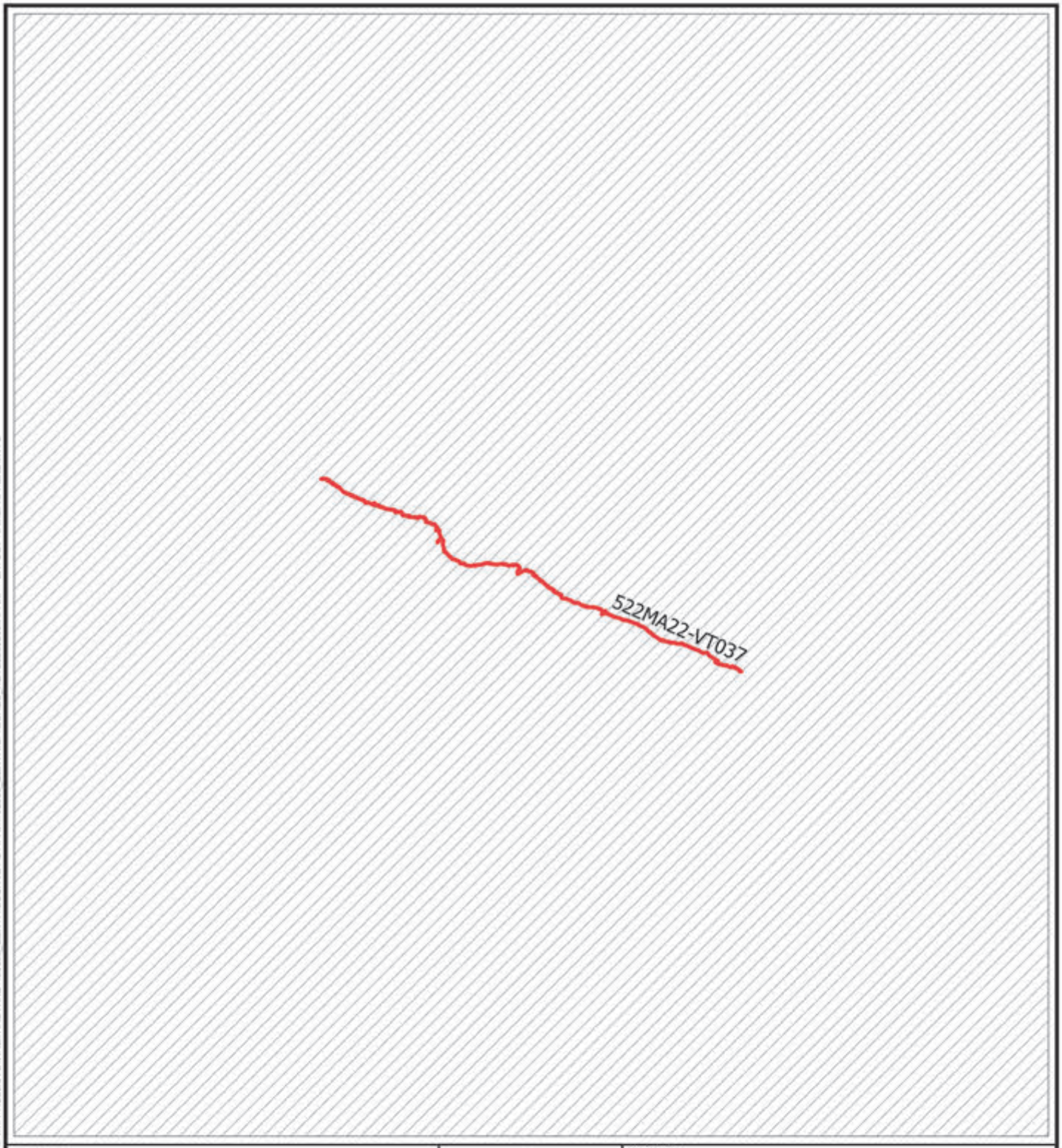
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT036

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECT\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

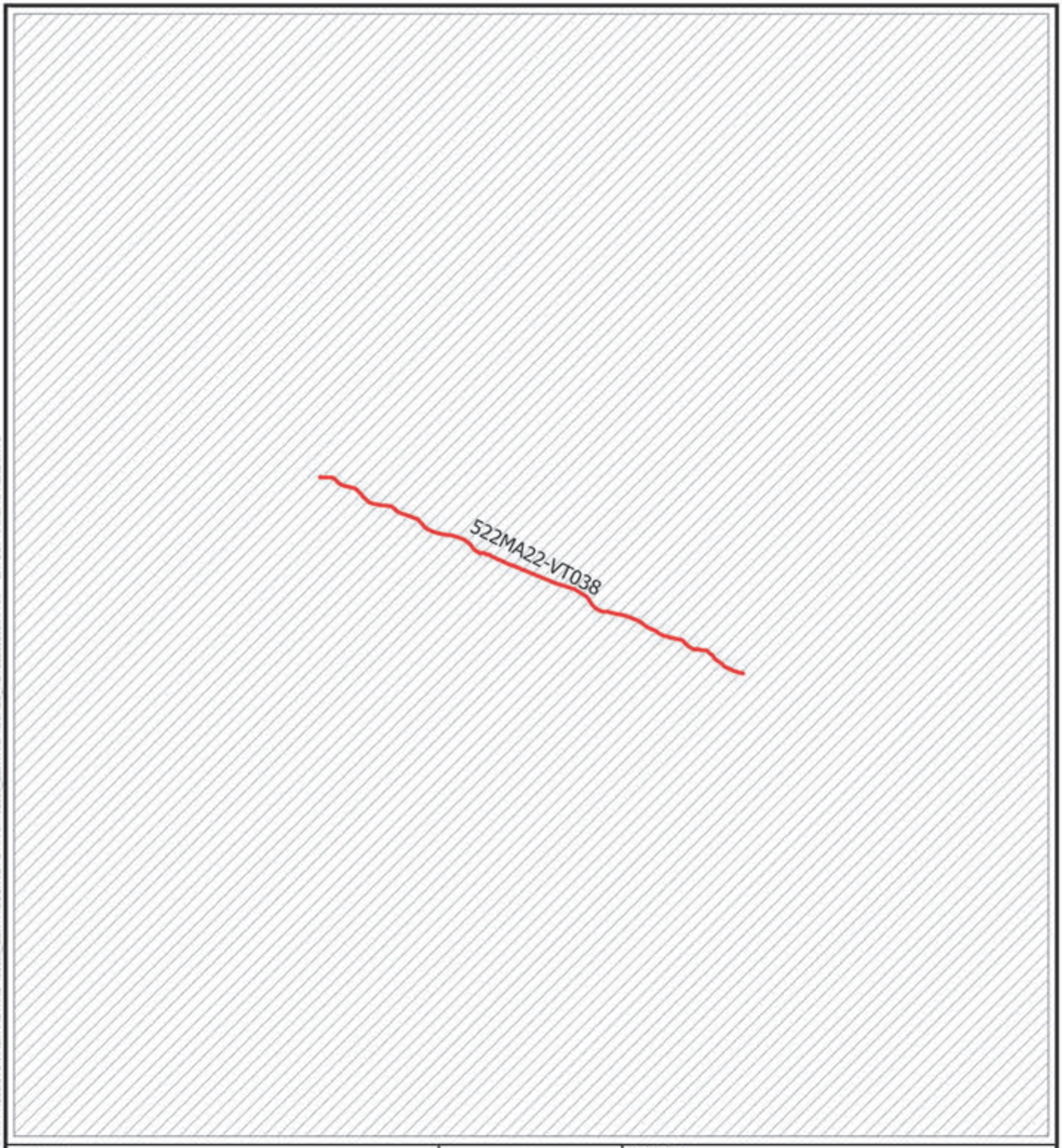
Appendix A-2
Transect: 522MA22-VT037

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

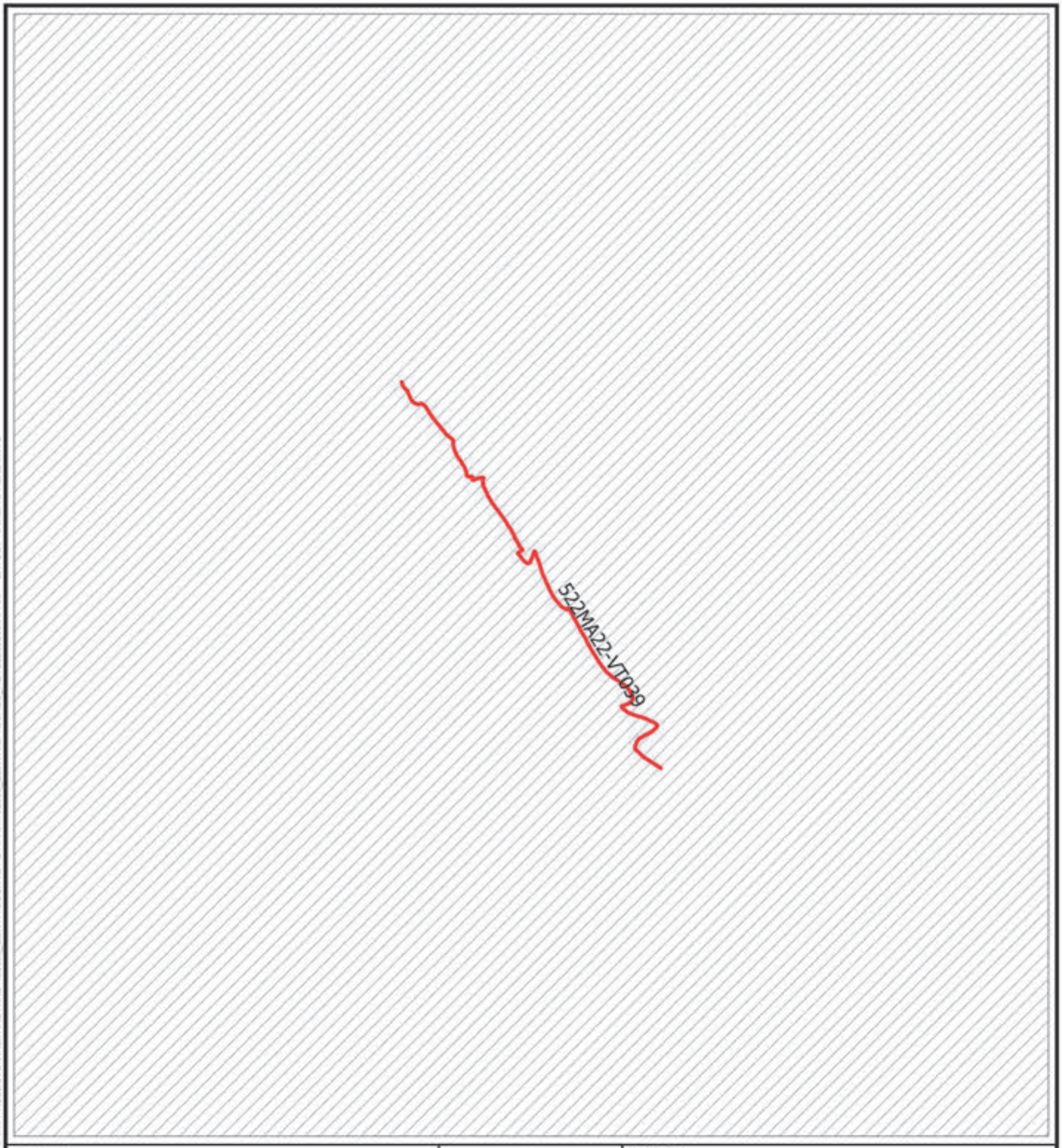
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT038

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

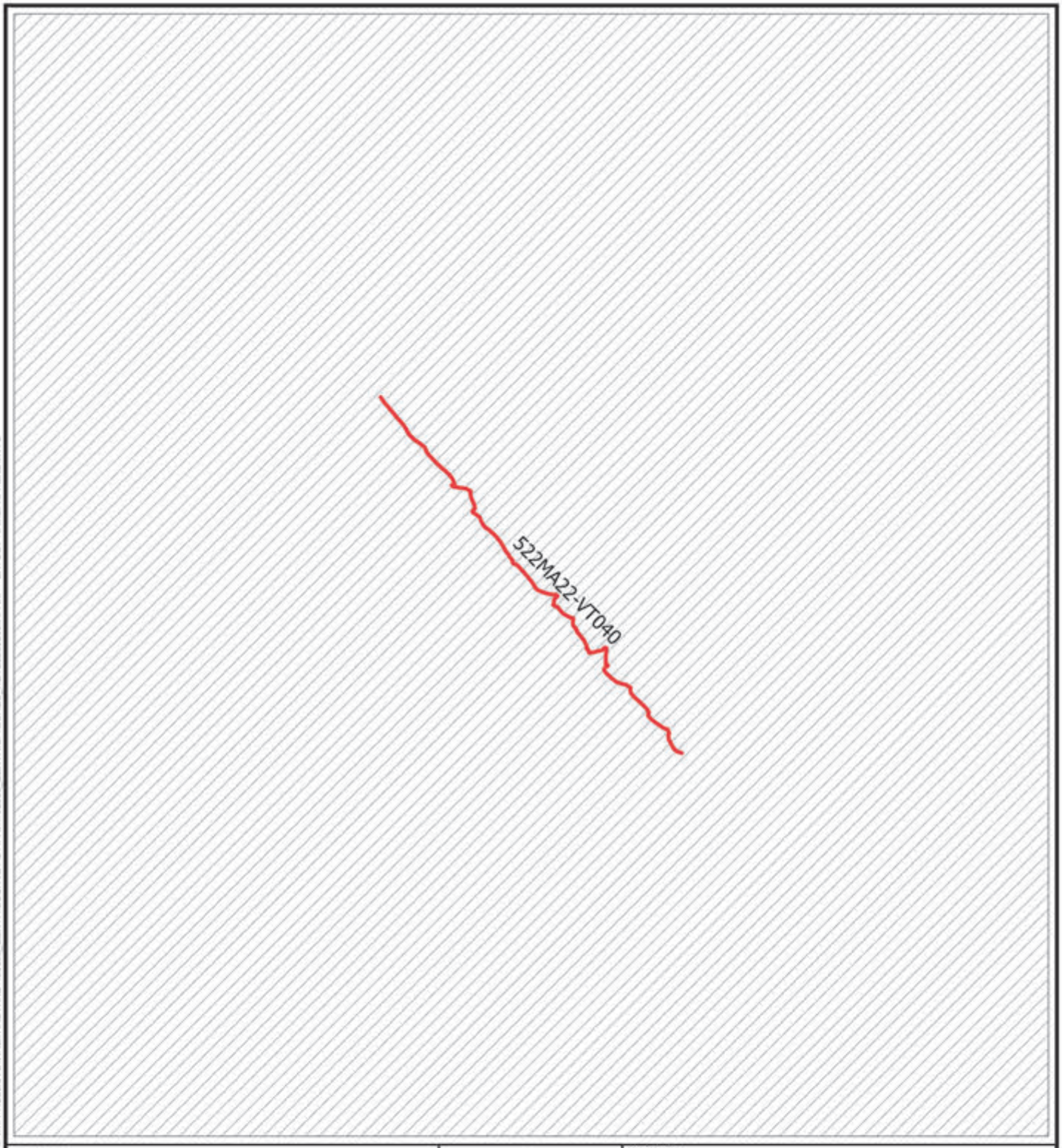
TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT039	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\0483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

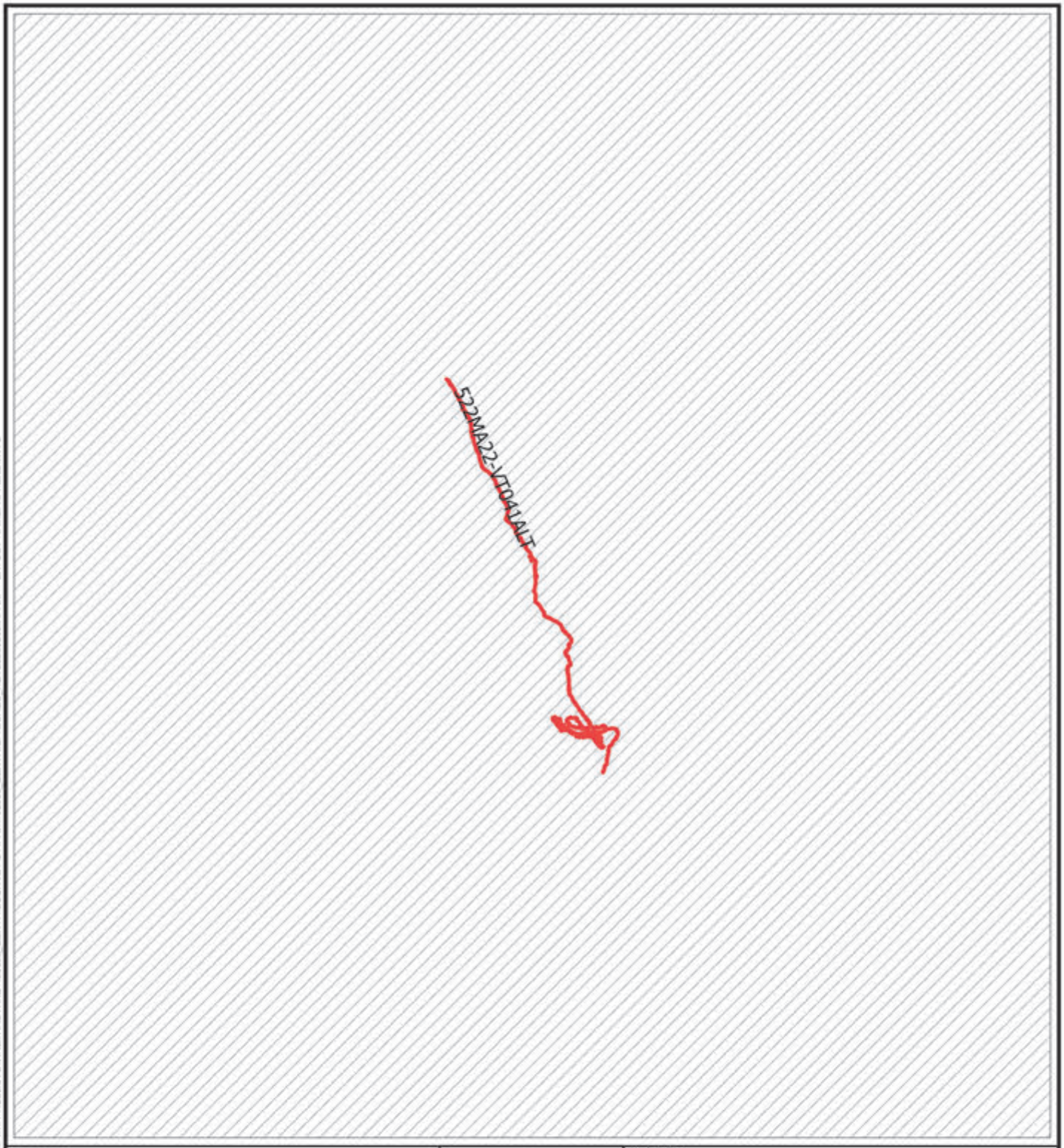
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT040

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

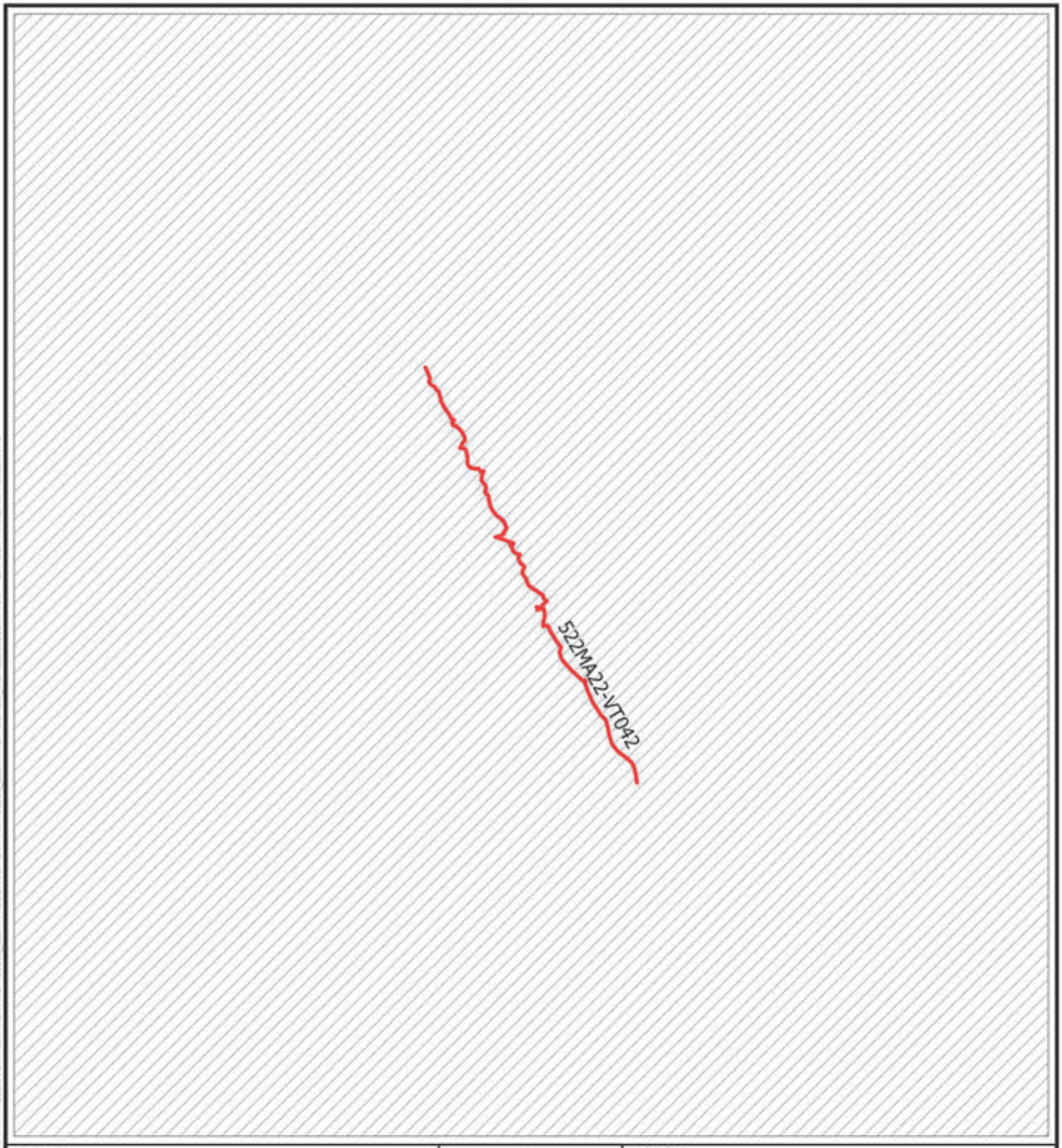
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT041ALT

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

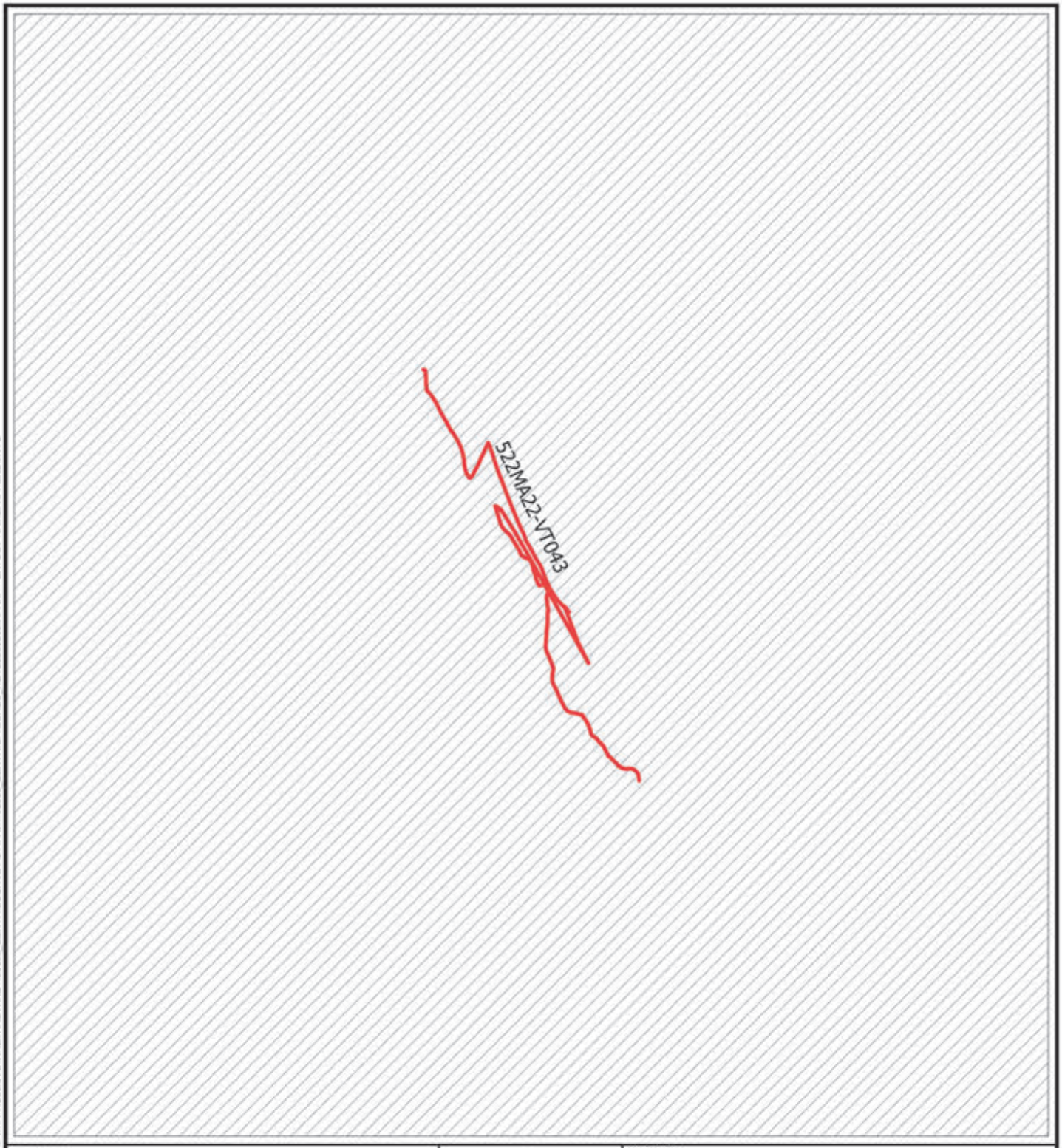
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT042

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT043

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

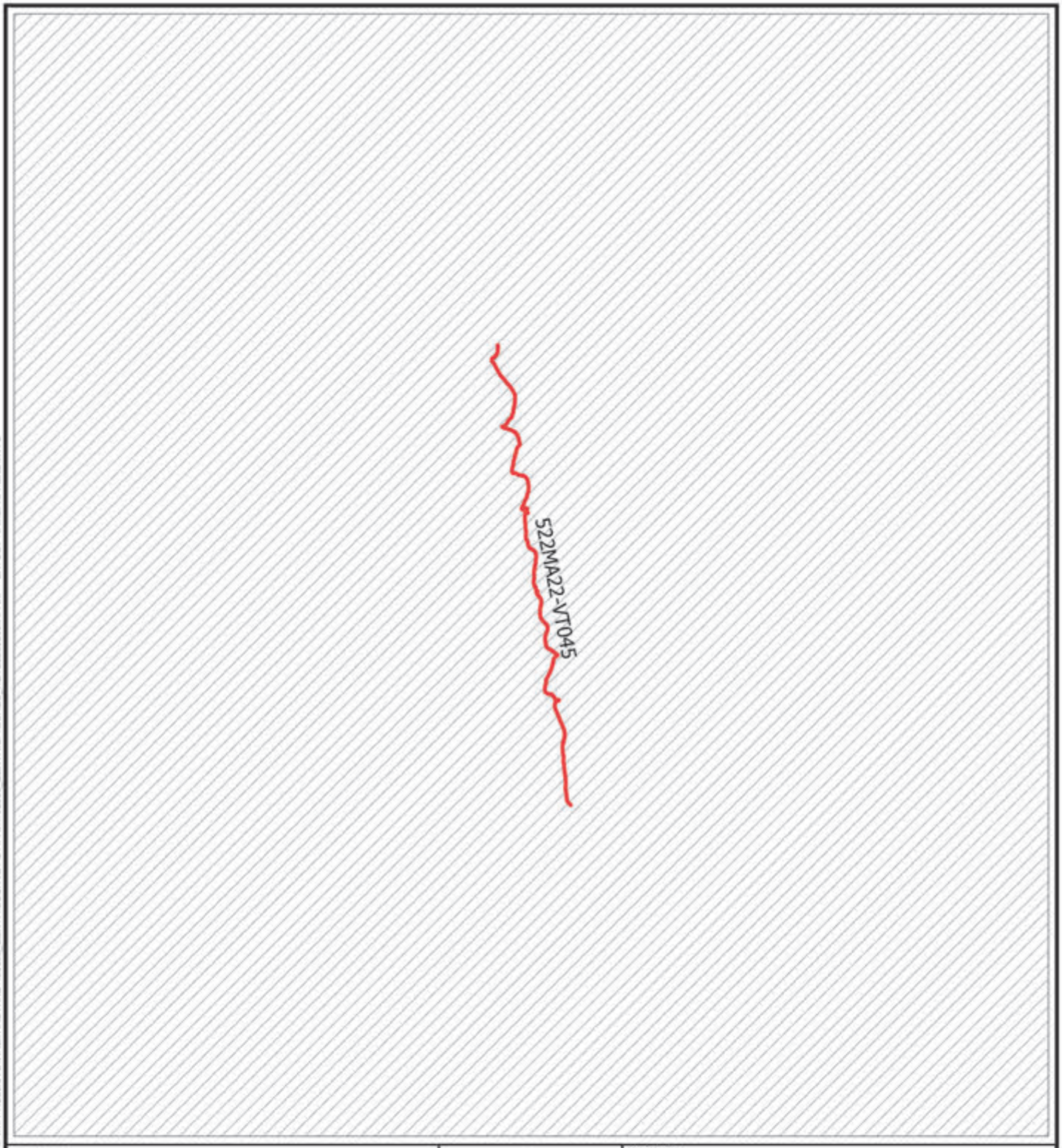
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT044

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

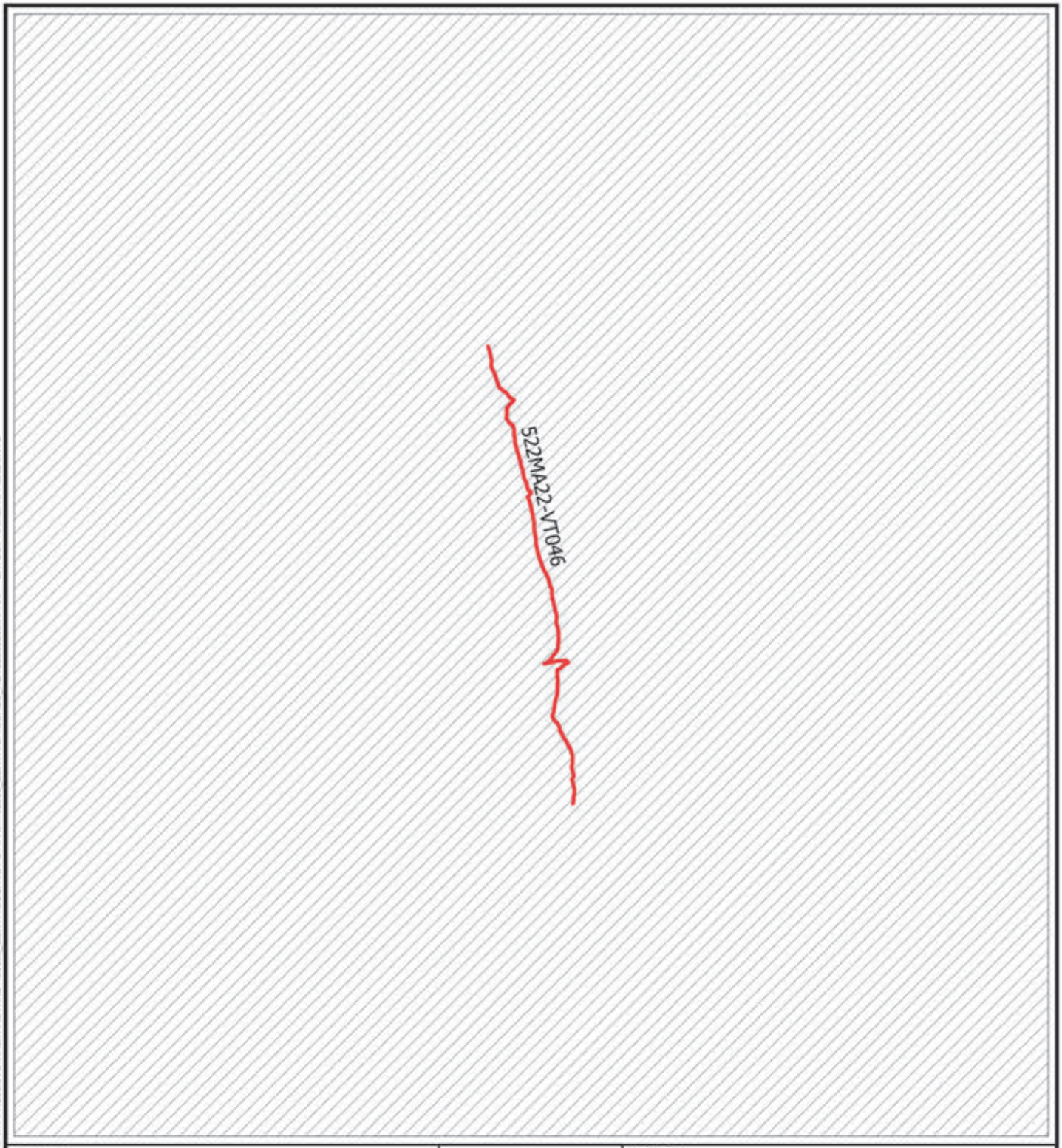
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT045

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

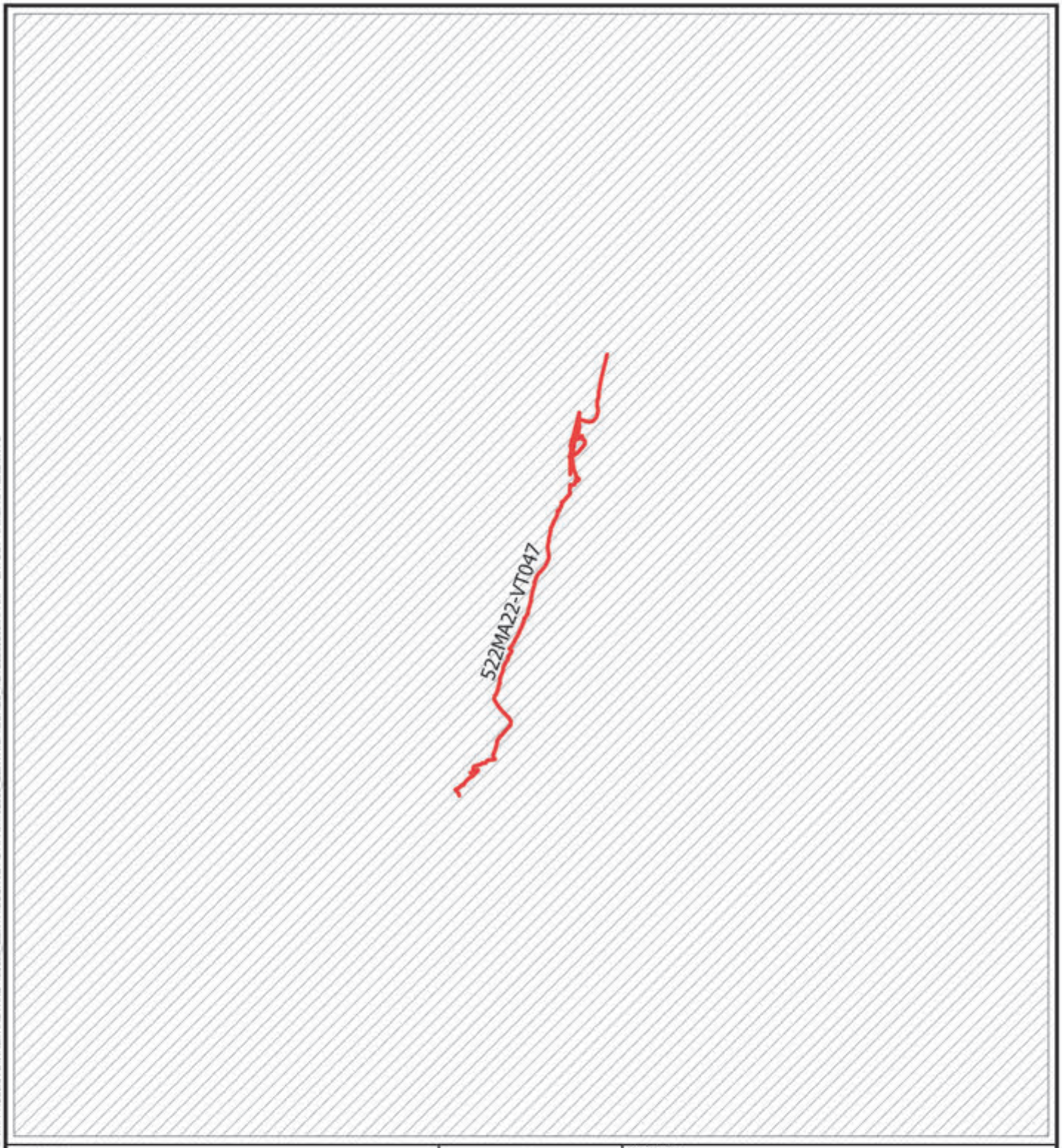
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT046

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

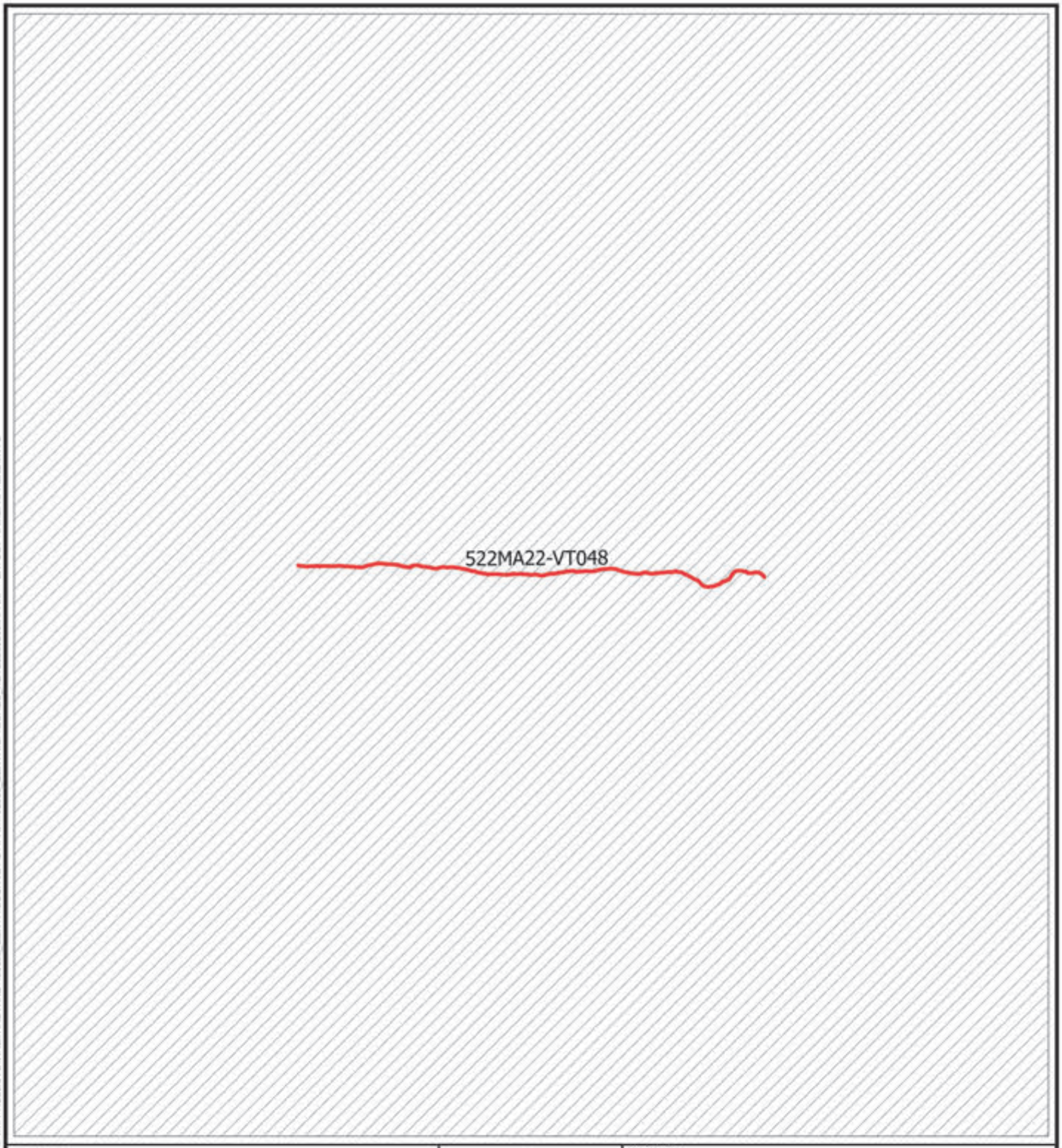
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT047

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT048

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

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0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

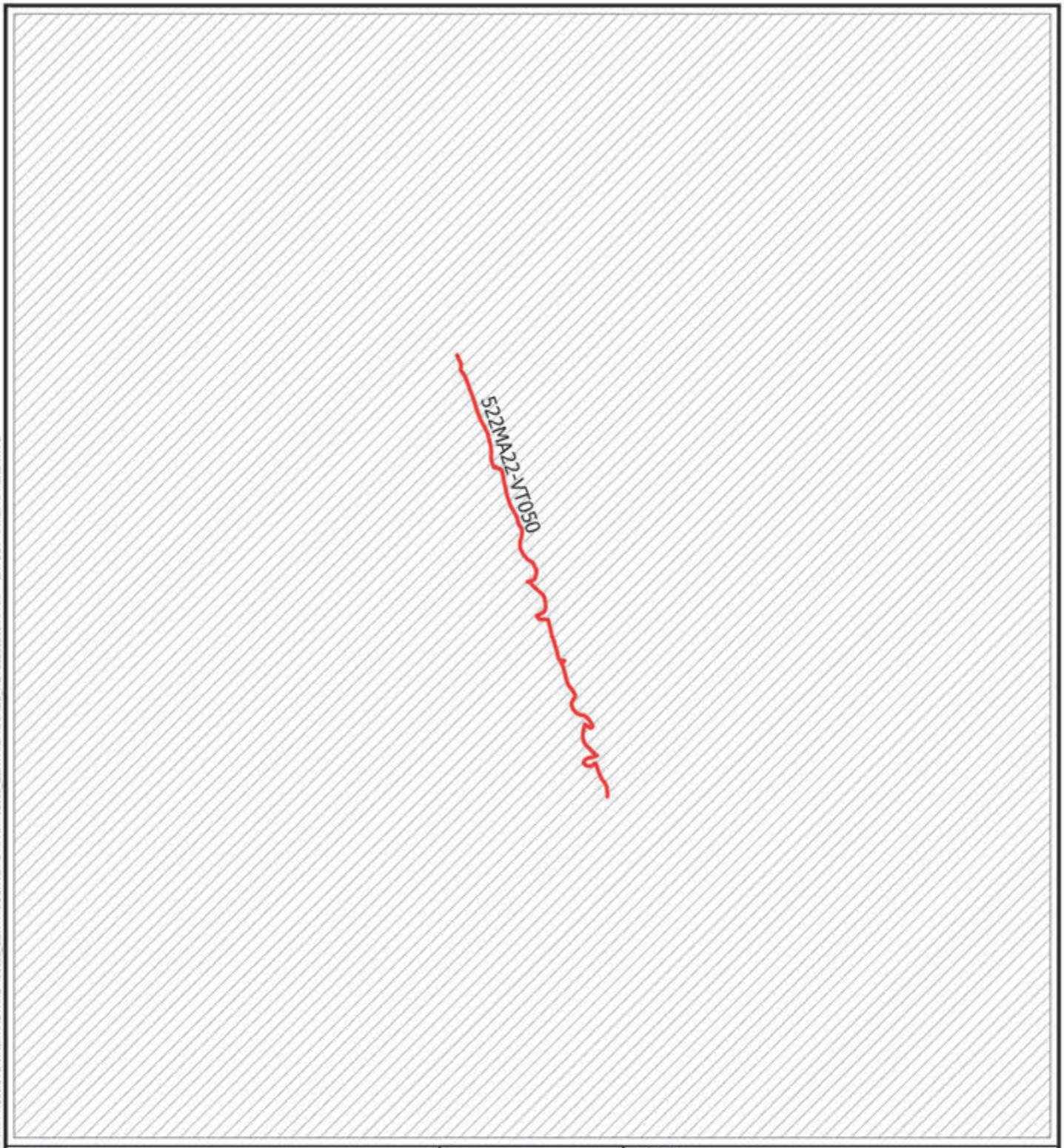
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT049

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECT\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

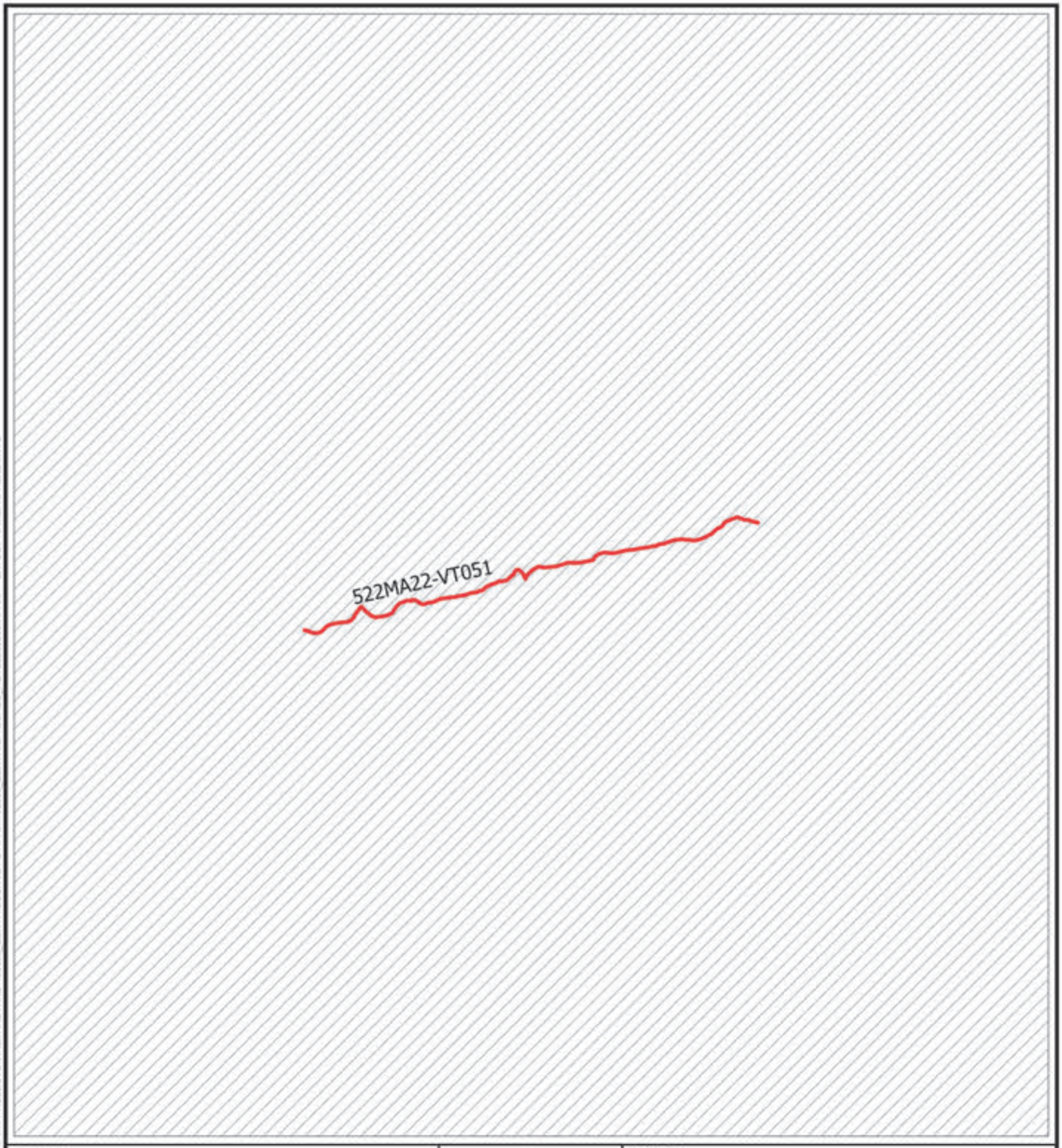
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT050

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT051

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\04836_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT052	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: I:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\0483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
MA OECC

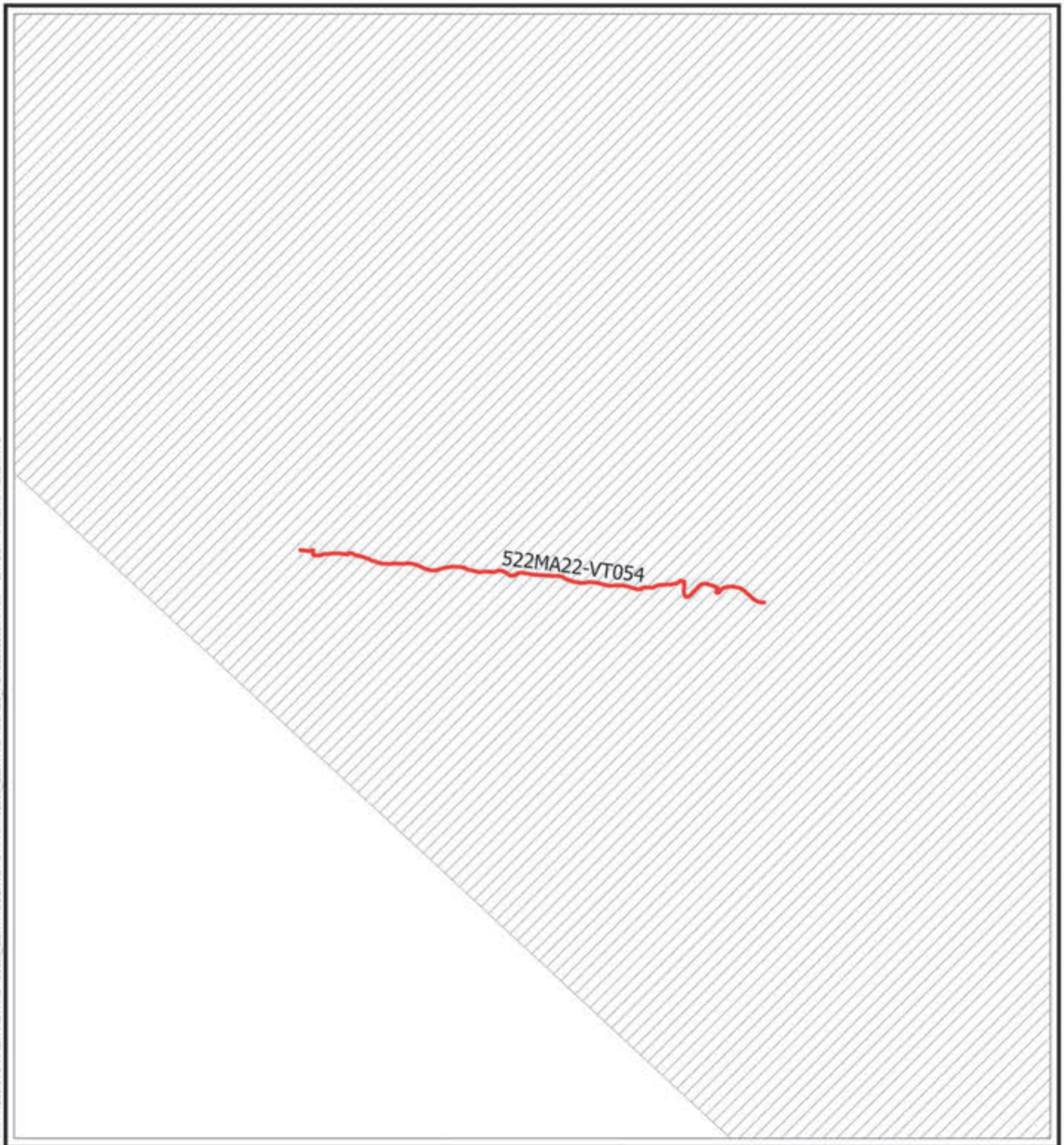
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT053

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APPX\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

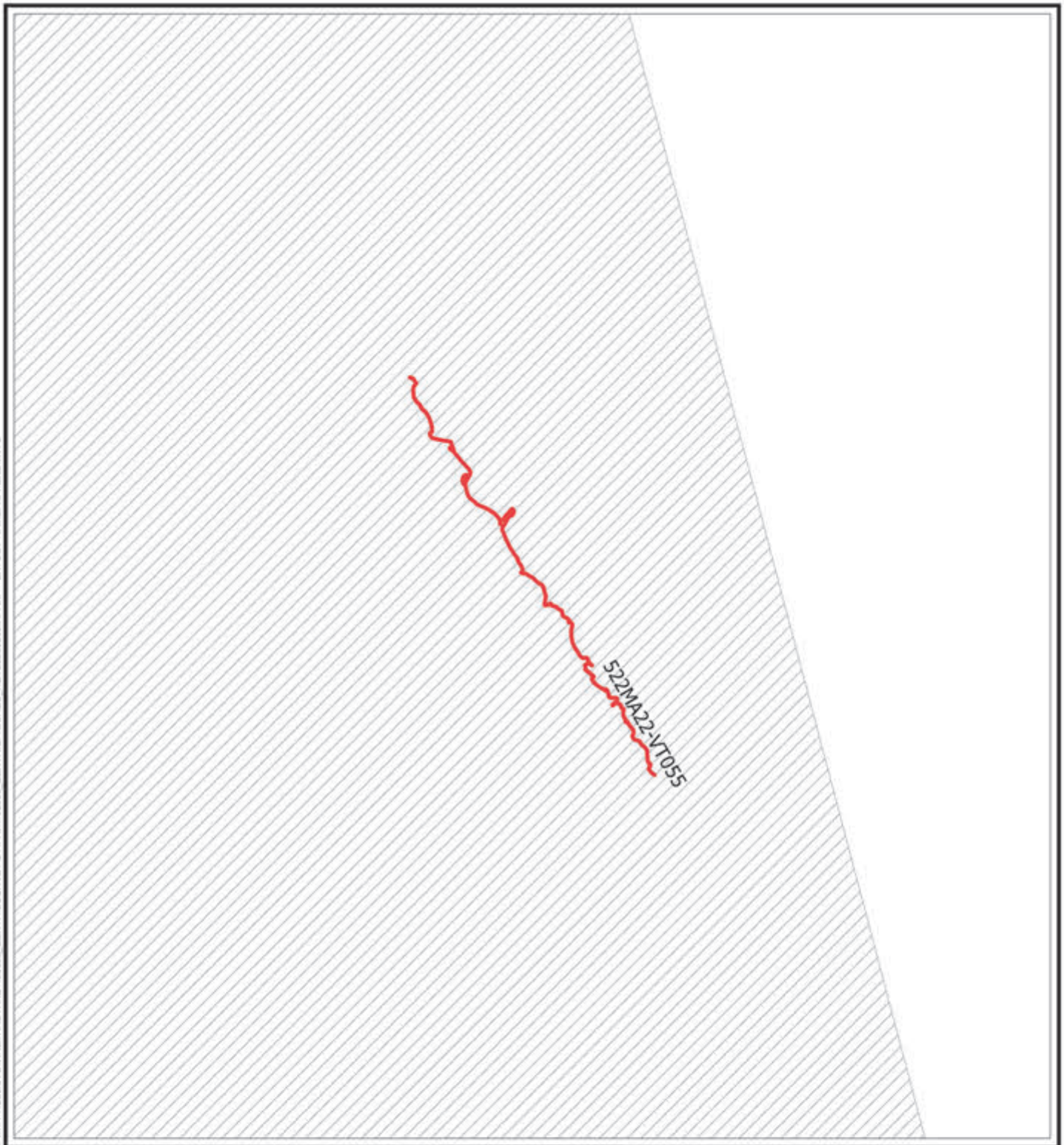
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT054

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: T:\PROJECTS\VINEYARD\MND\483856_BENTHICSURVEY3-APR\04\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

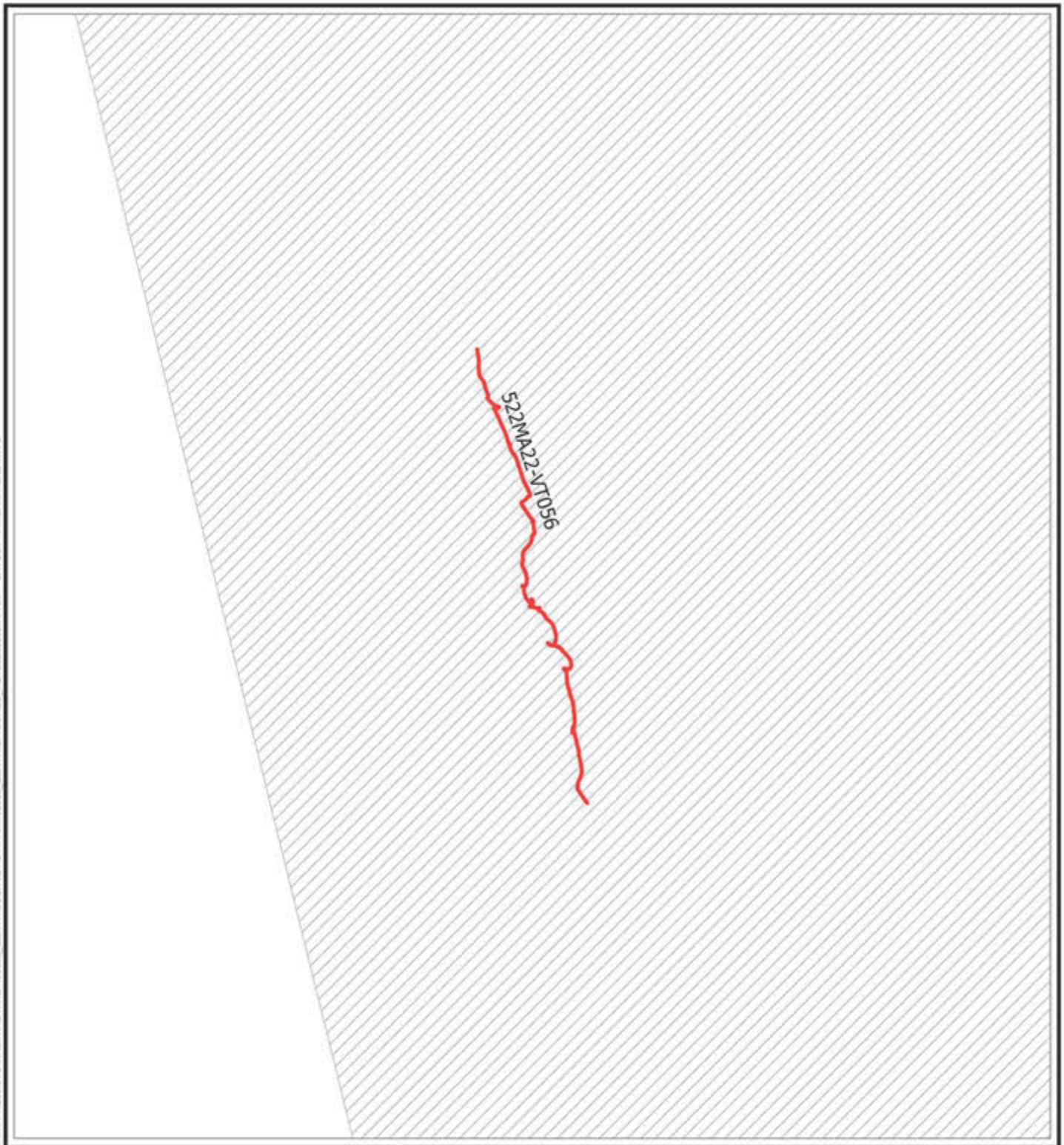
TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-2**	
APPROVED BY:	M. LADEWIG	Transect: 522MA22-VT055	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: T:\PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APP0\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

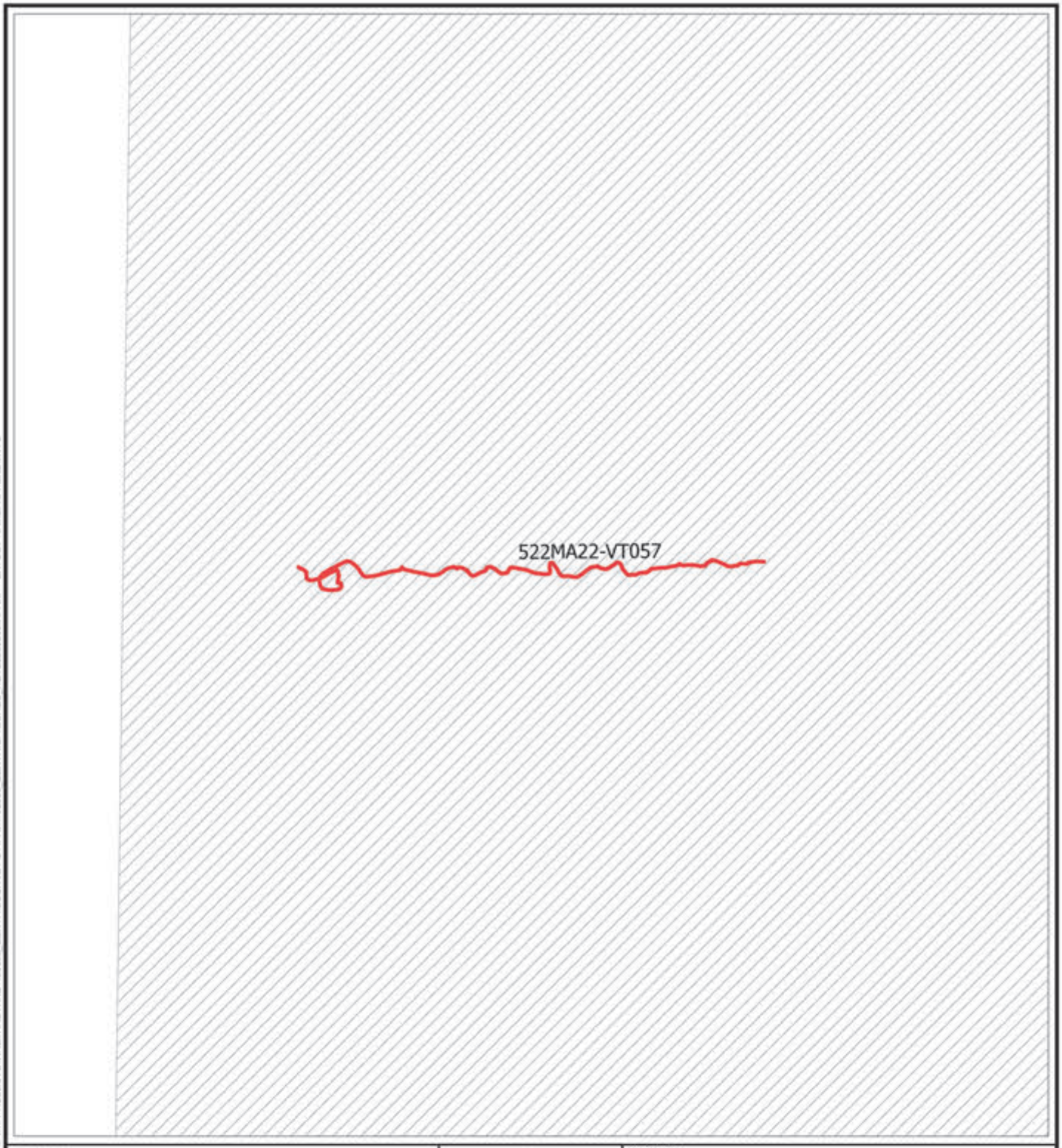
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT056

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APR\04\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT057

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: T:\PROJECTS\VINEYARD\MND\483856_BENTHICSURVEYS-APP0\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: MA OECC

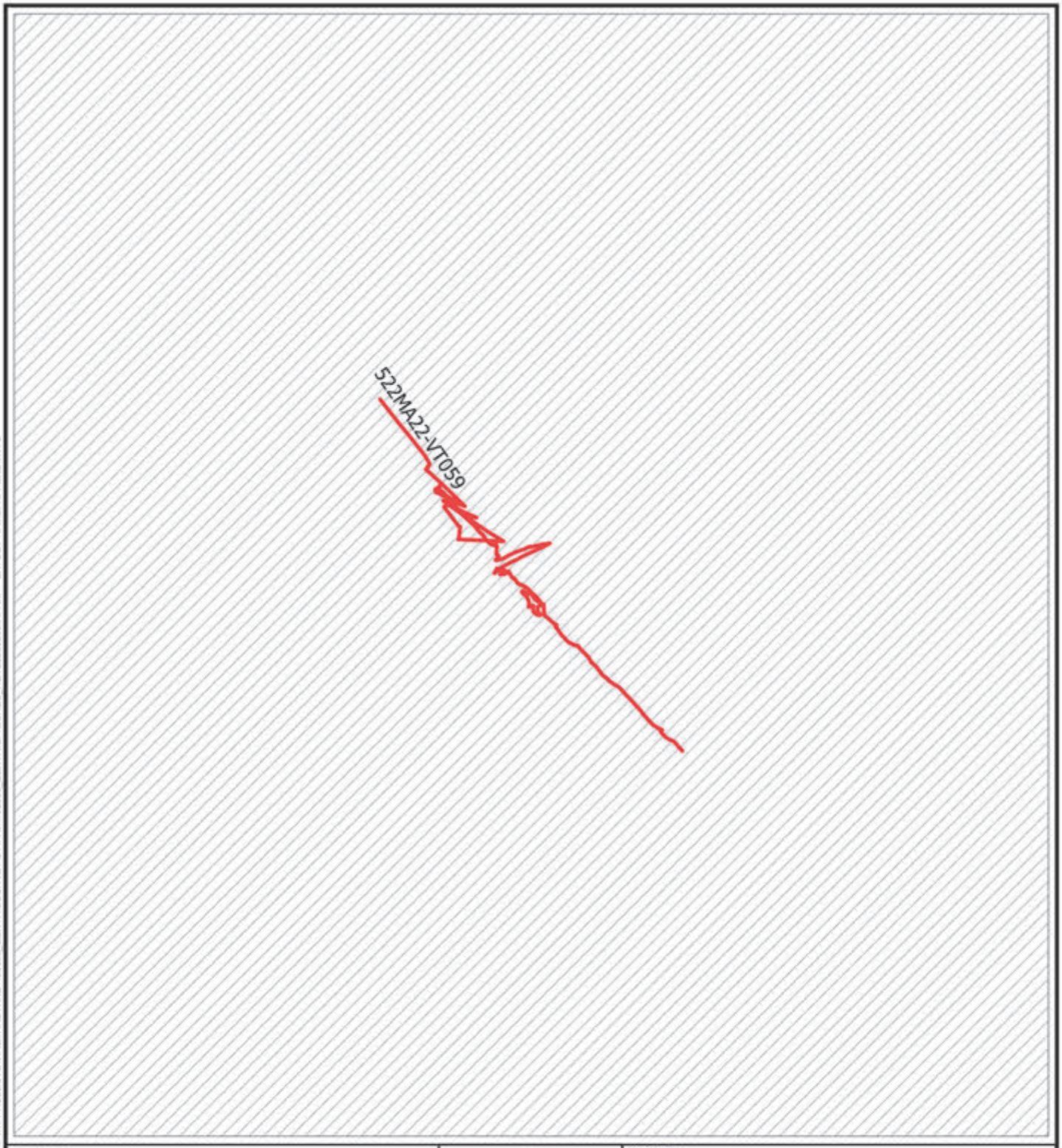
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT058

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APR\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2



MA Offshore Export Cable Corridor

Video Track Lines, MA OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: MA OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-2
Transect: 522MA22-VT059

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

...SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM; FILE PATH: F:\1-PROJECTS\VINEYARD\MMO\483856_BENTHICSURVEYS-APP\GIS\483856_BENTHICFIGURES_REV20230209.APRX; LAYOUT NAME: APPENDIX A-2

Appendix A-3: Underwater Video Track Lines: CT OECC

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

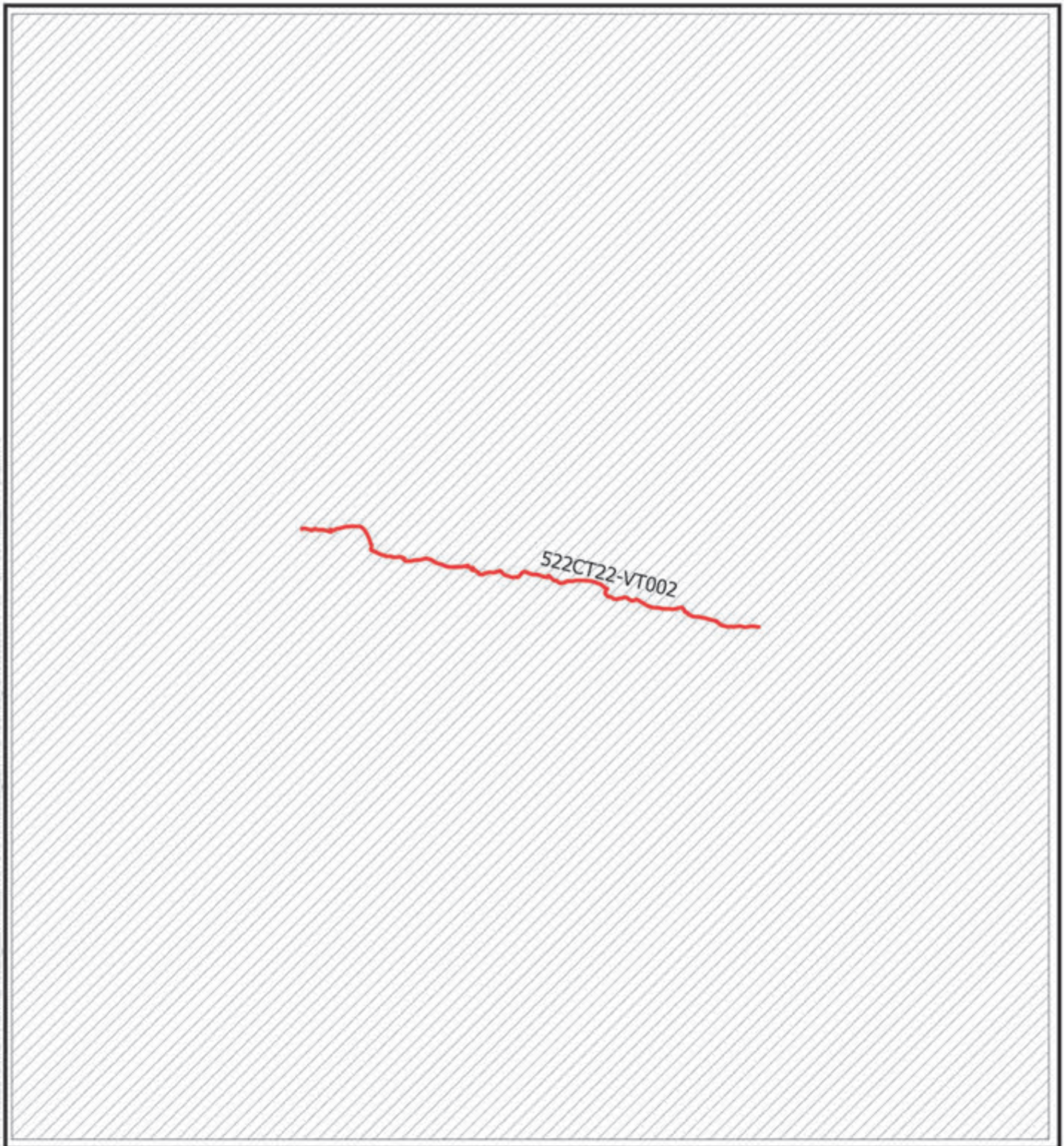
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

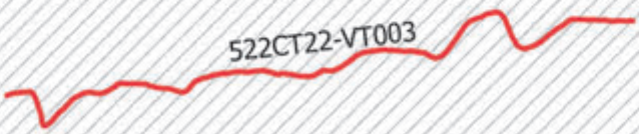
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT002	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT003	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

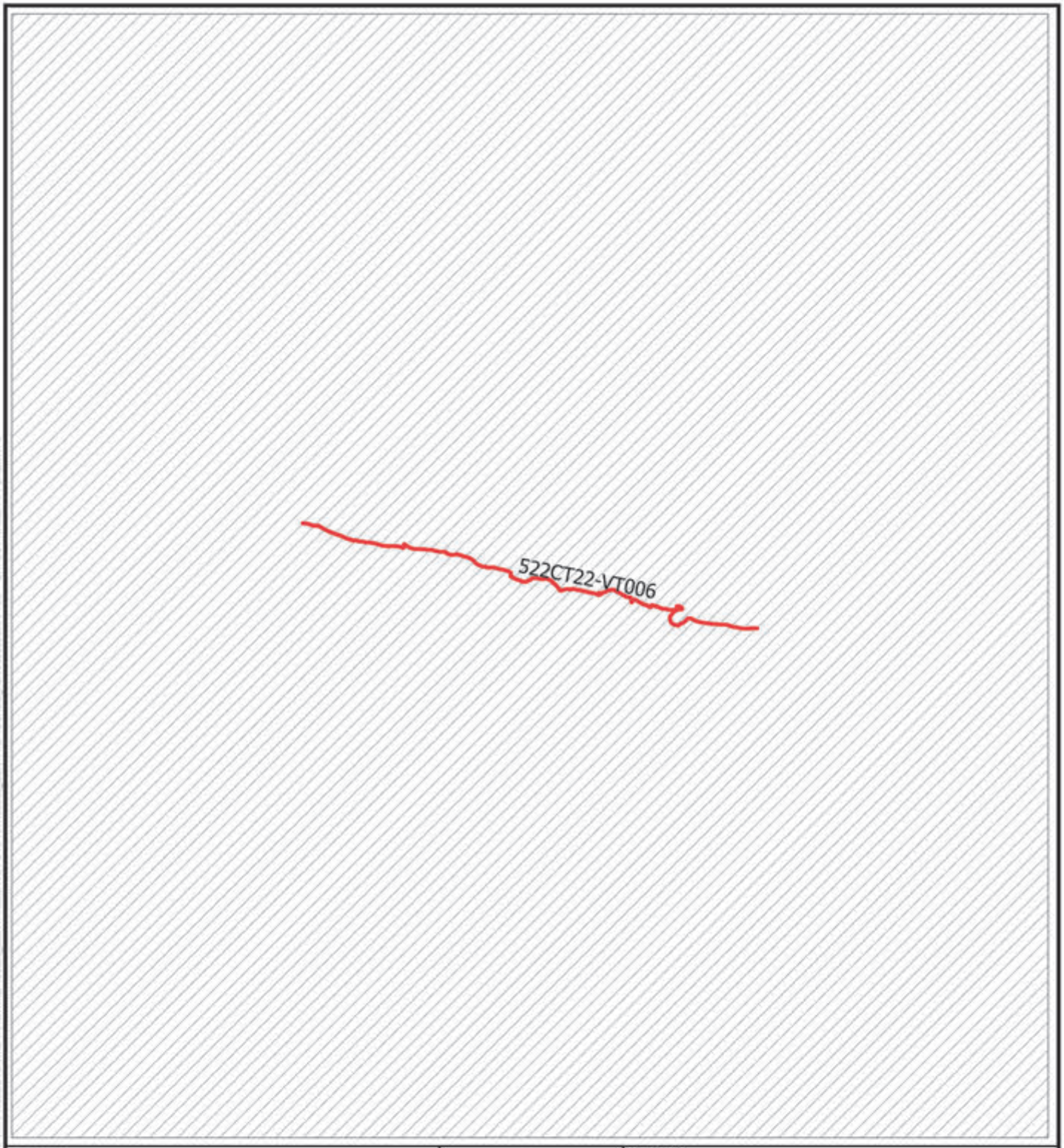
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT005	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAREA\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

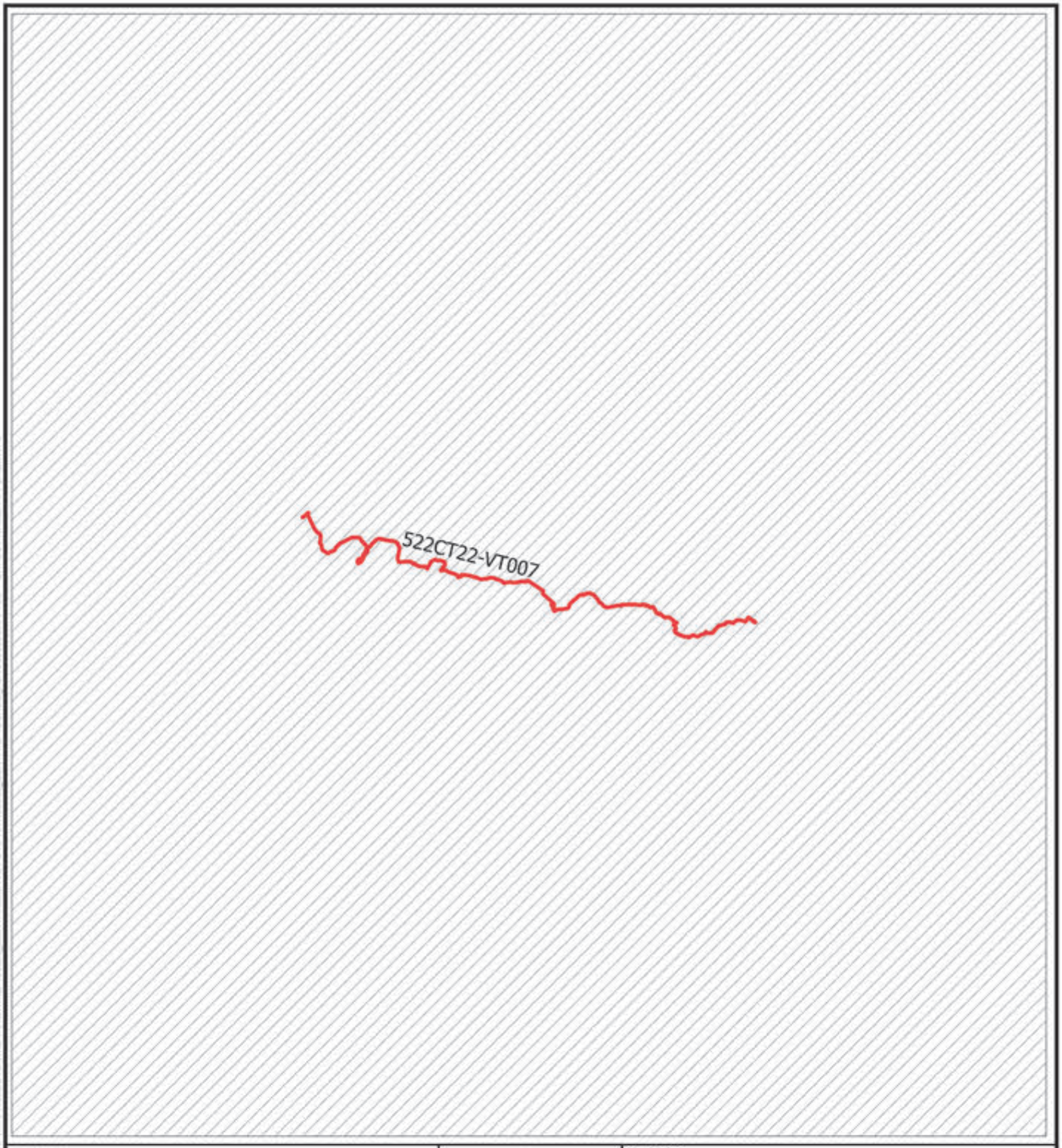
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT006

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

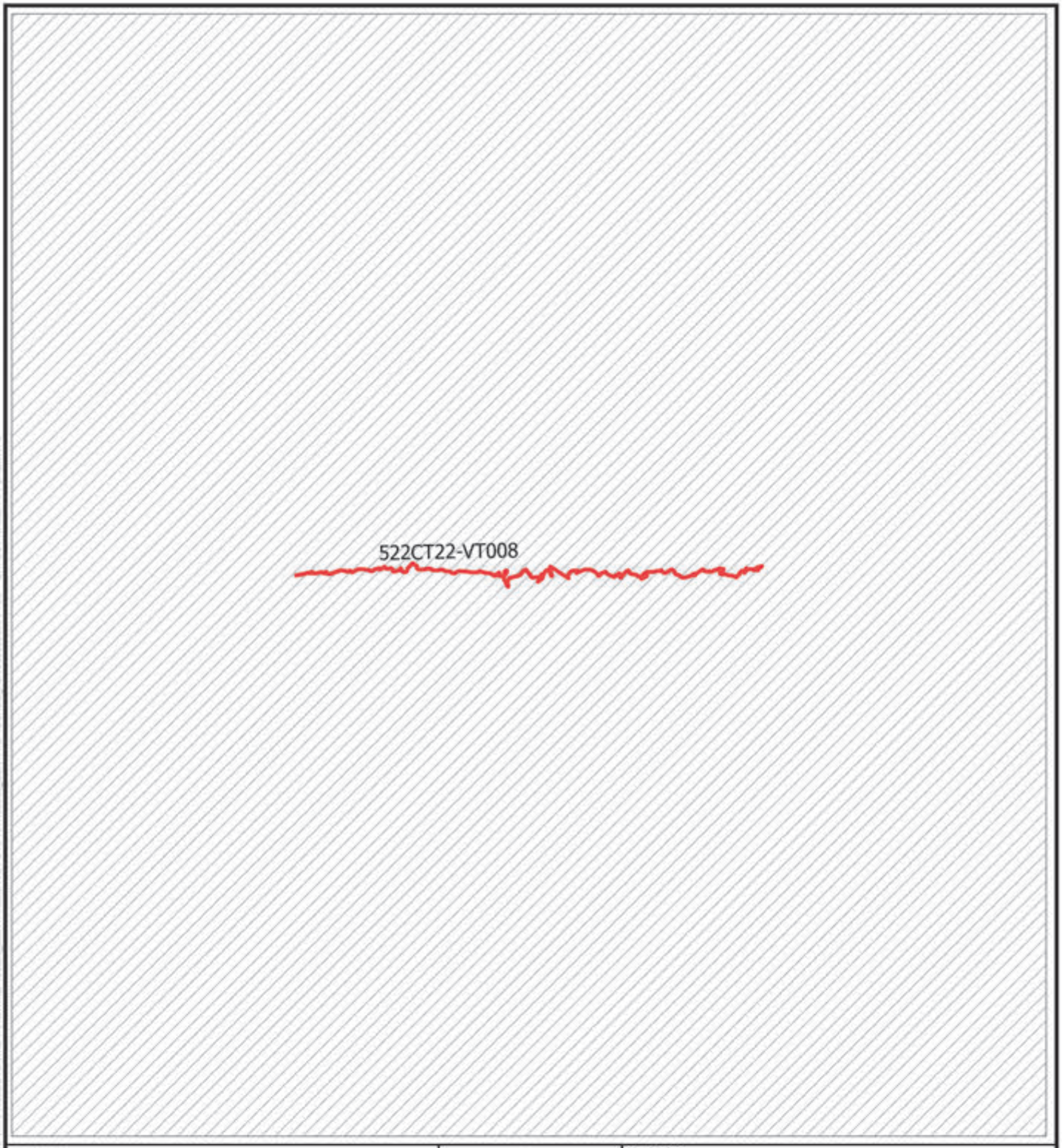
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

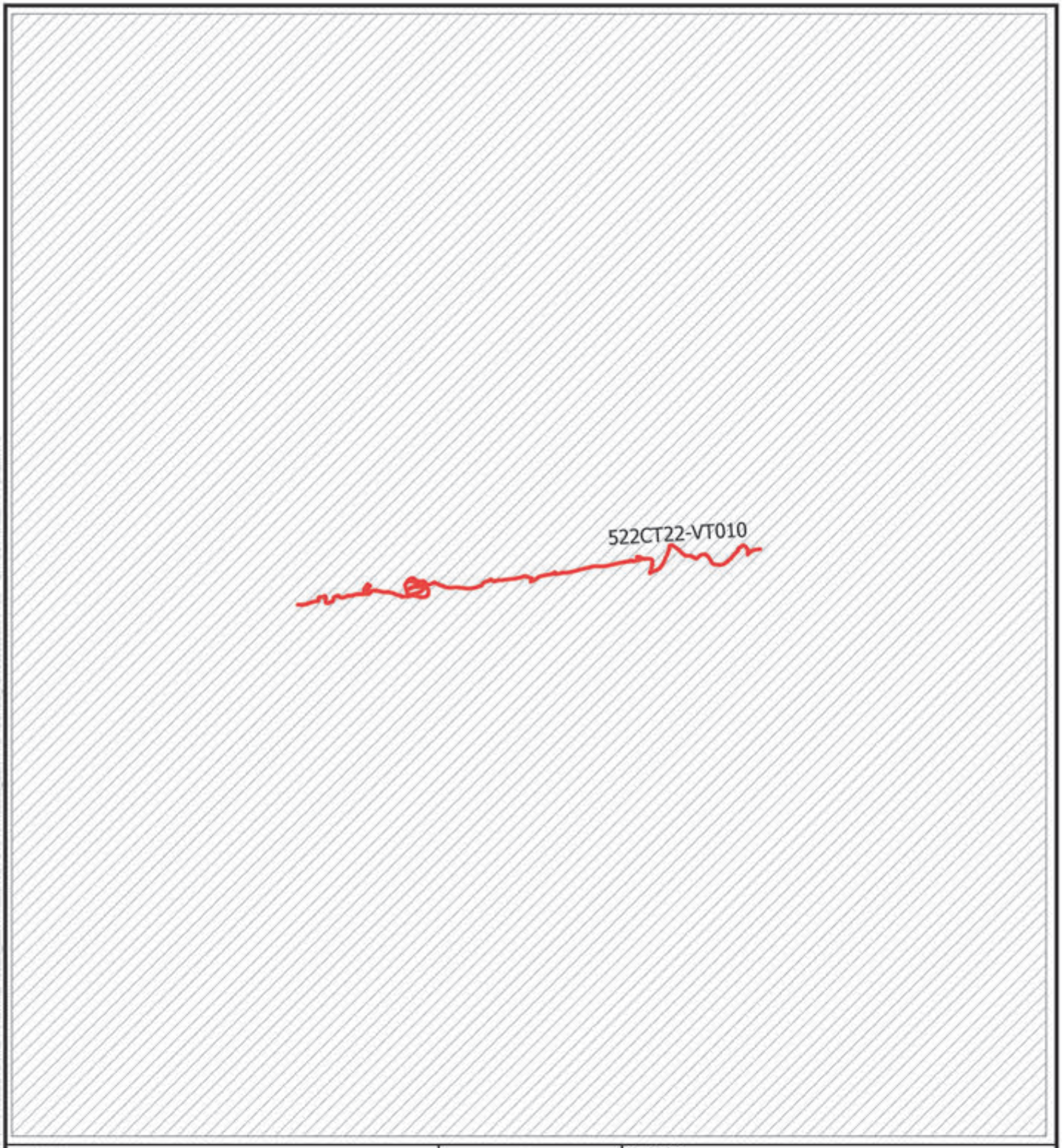
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

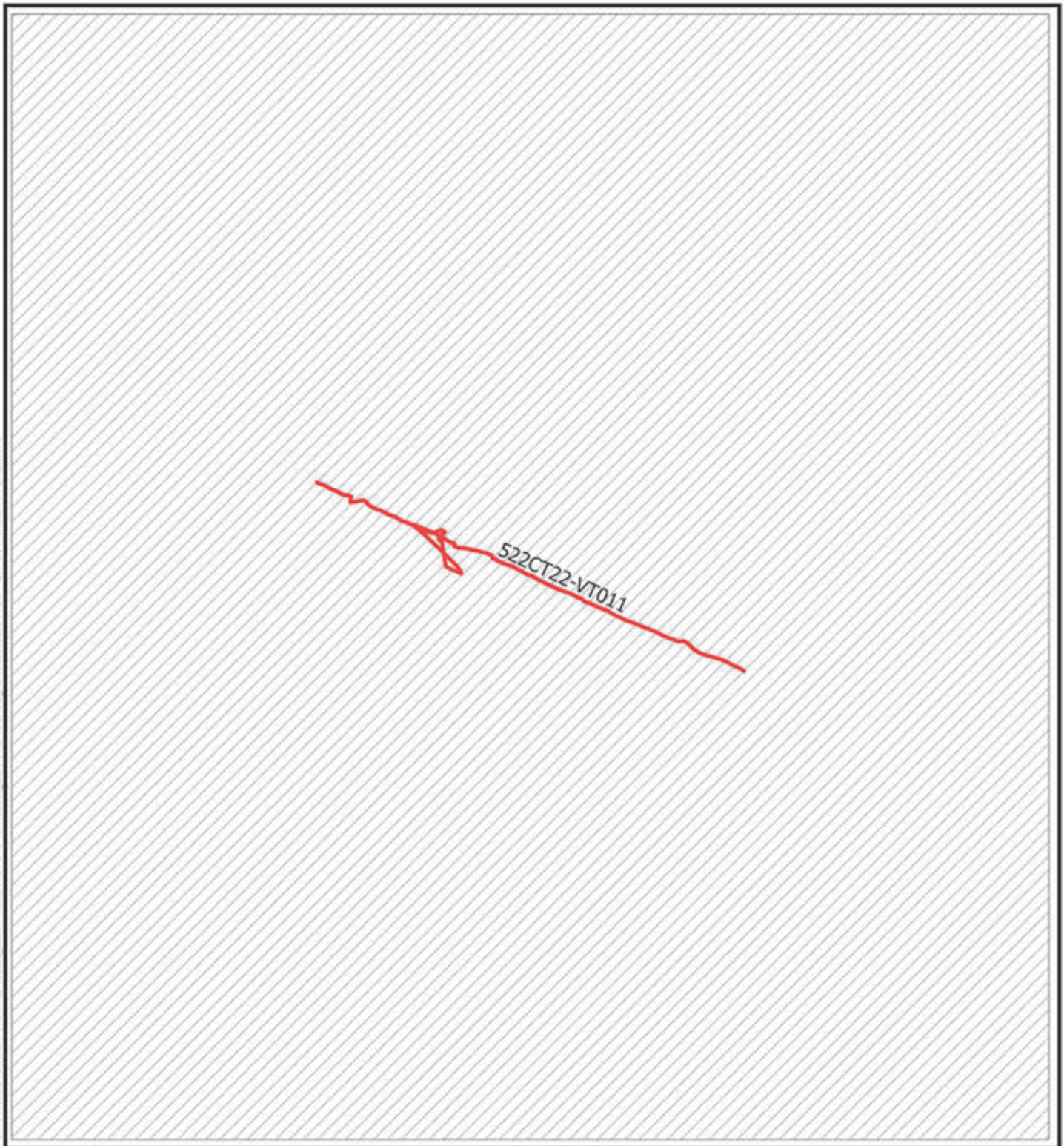
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT010	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

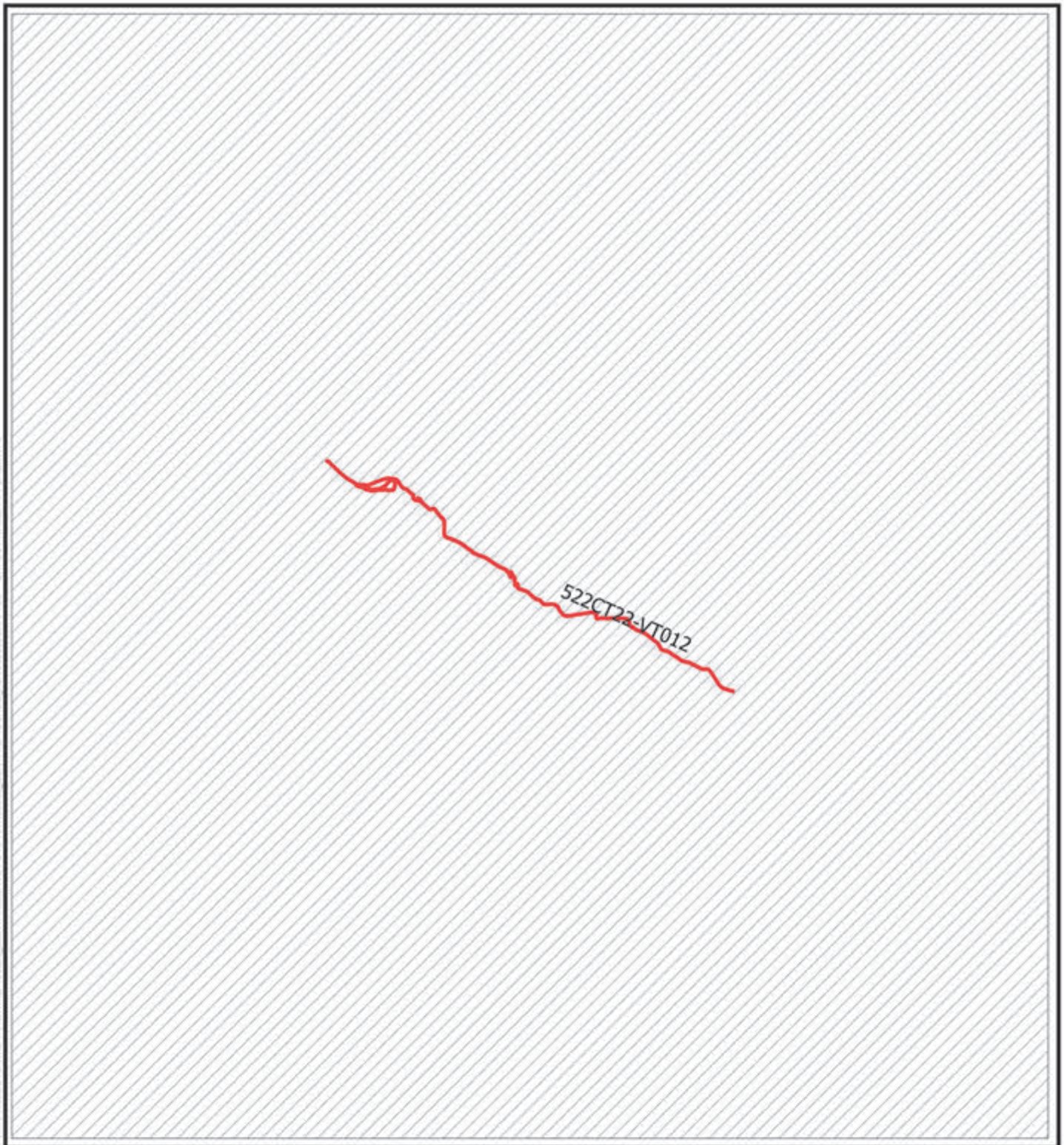
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

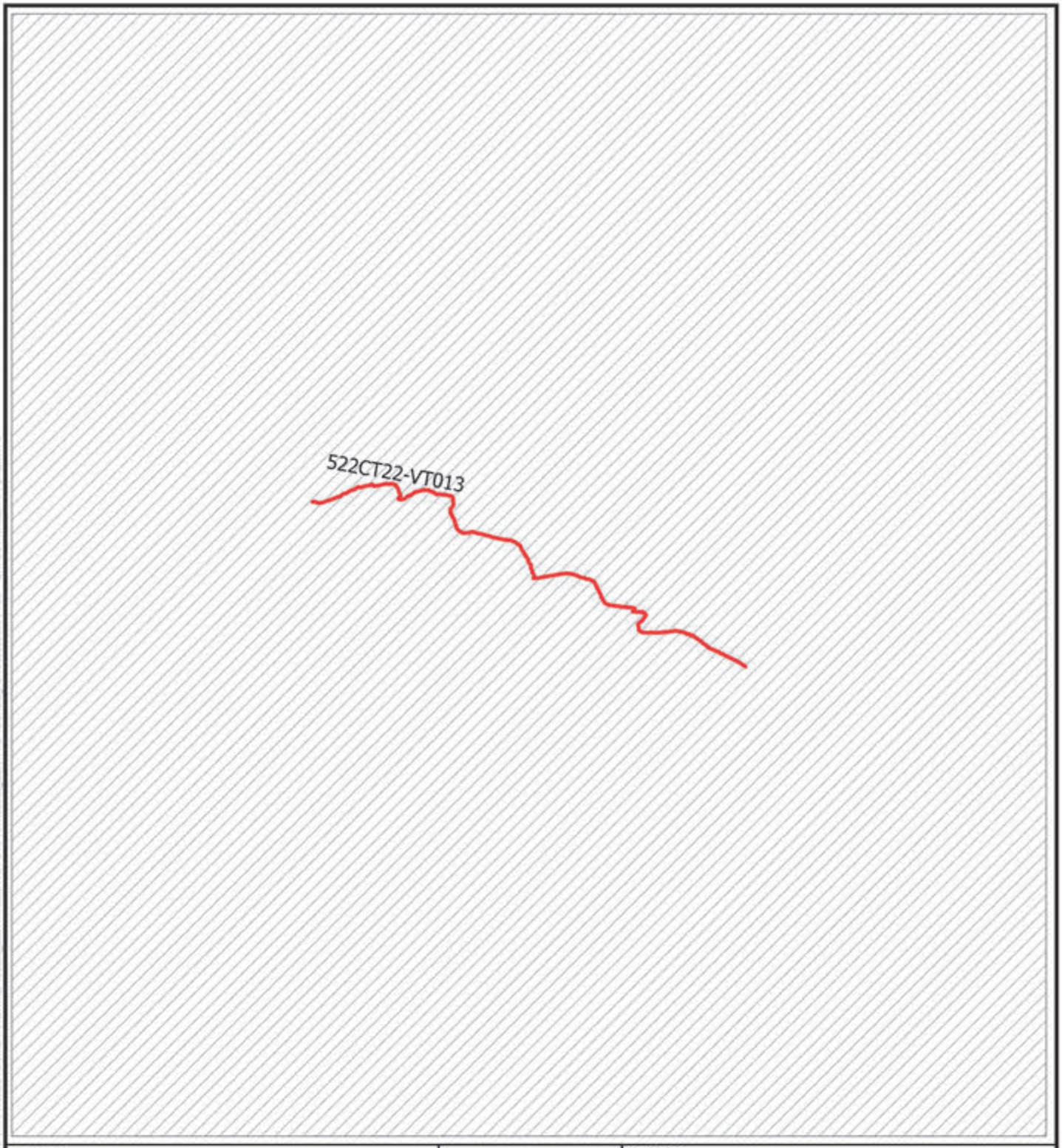
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT012	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

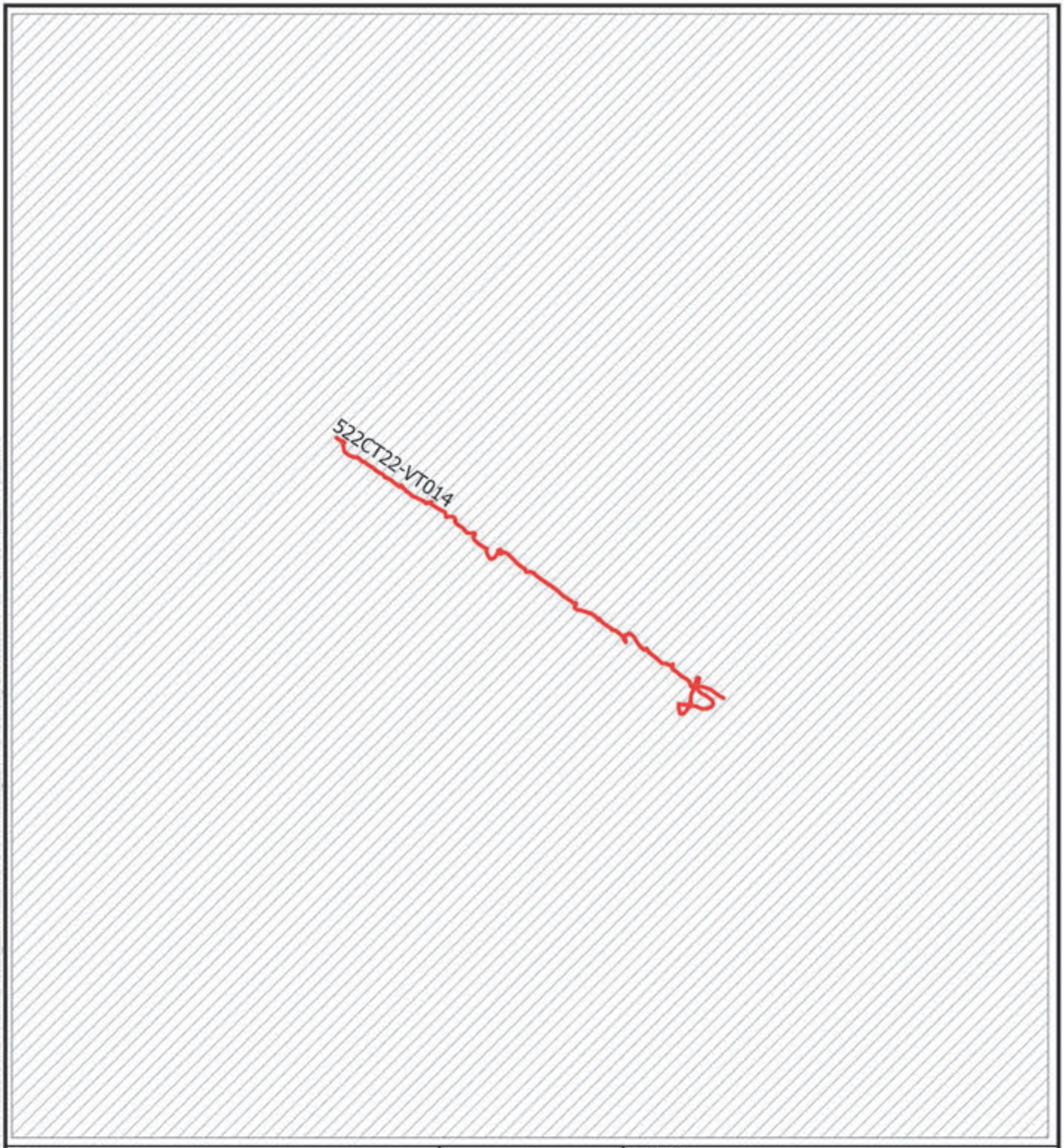
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

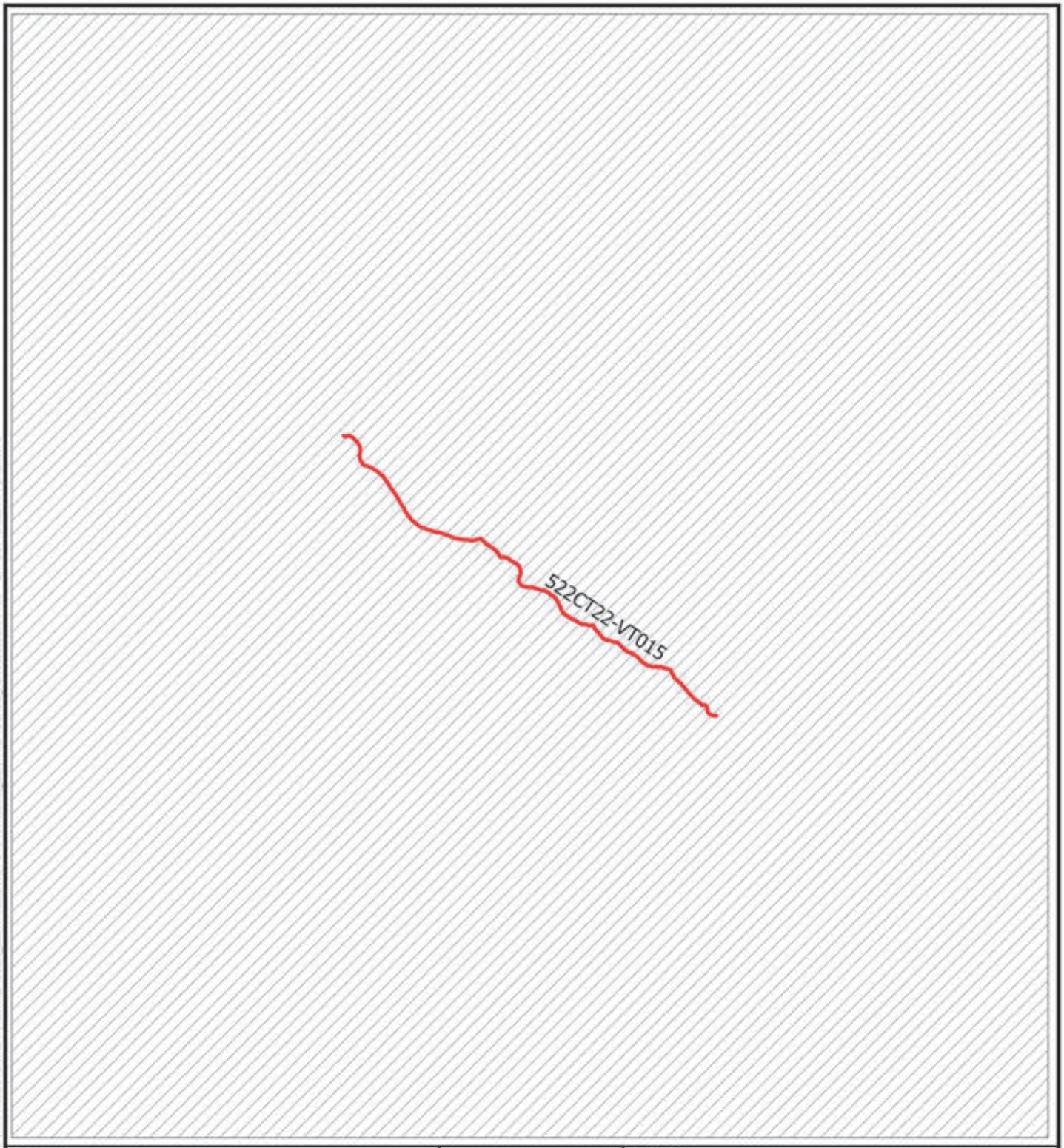
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT014	

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

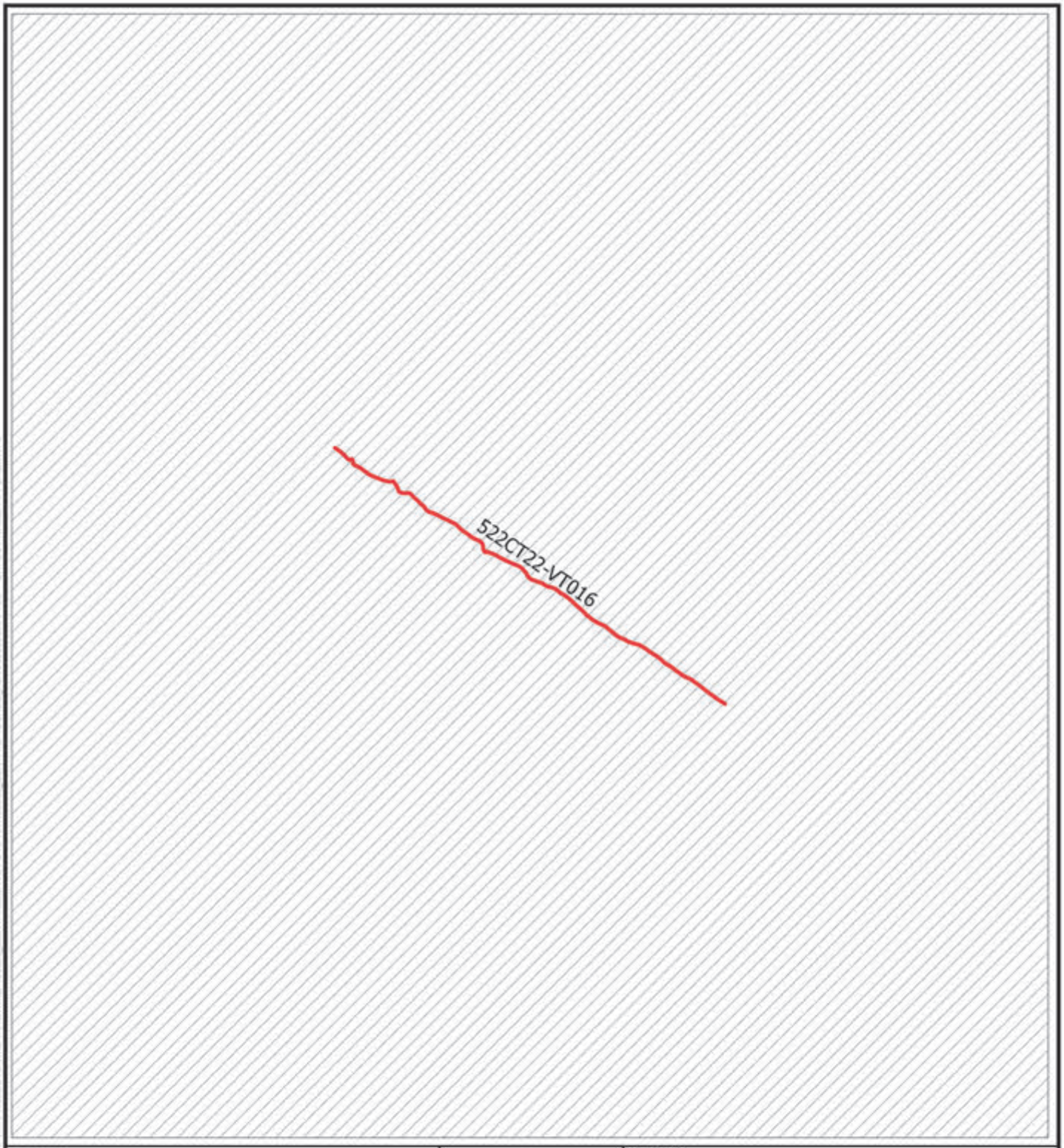
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT015

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

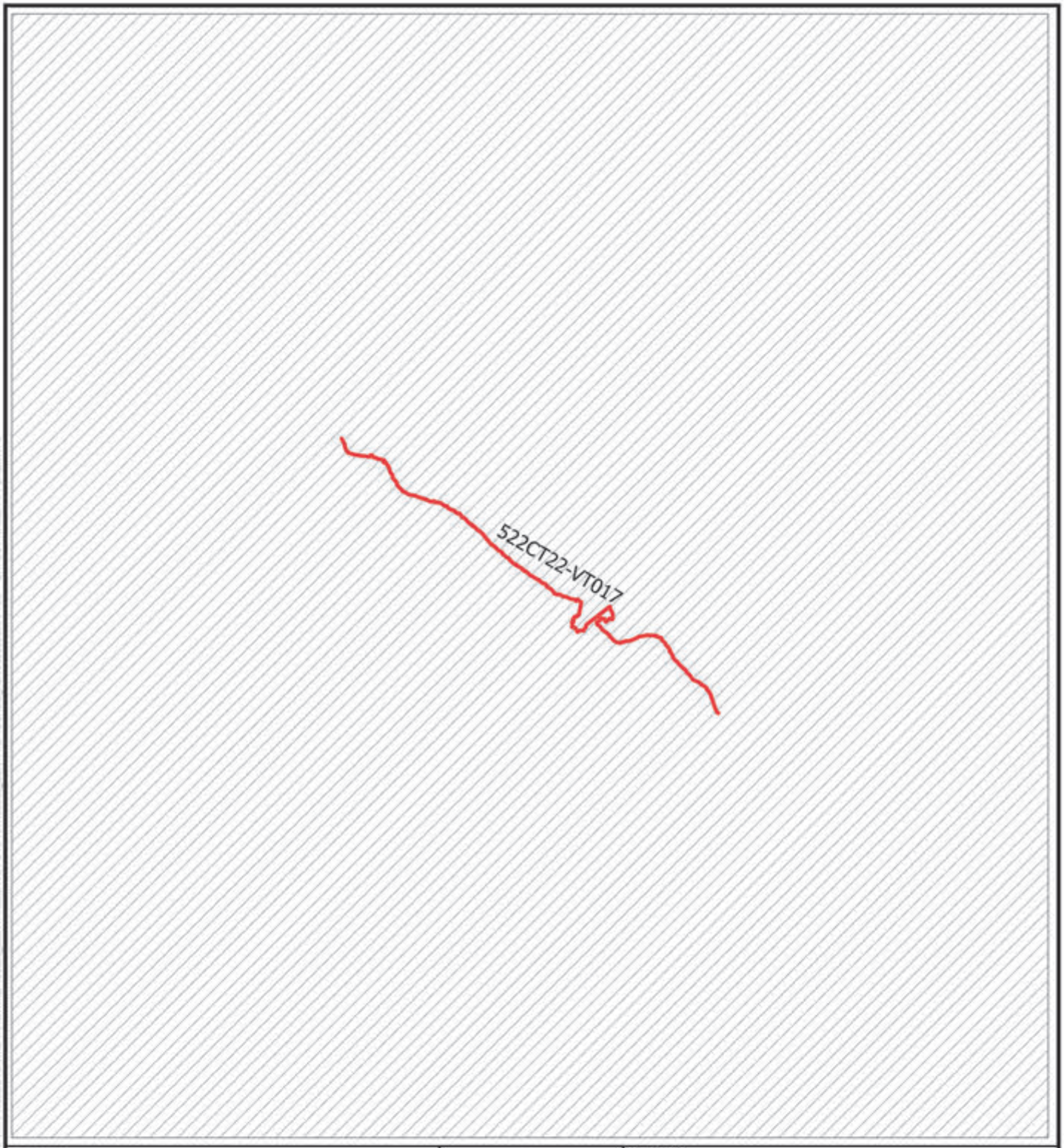
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

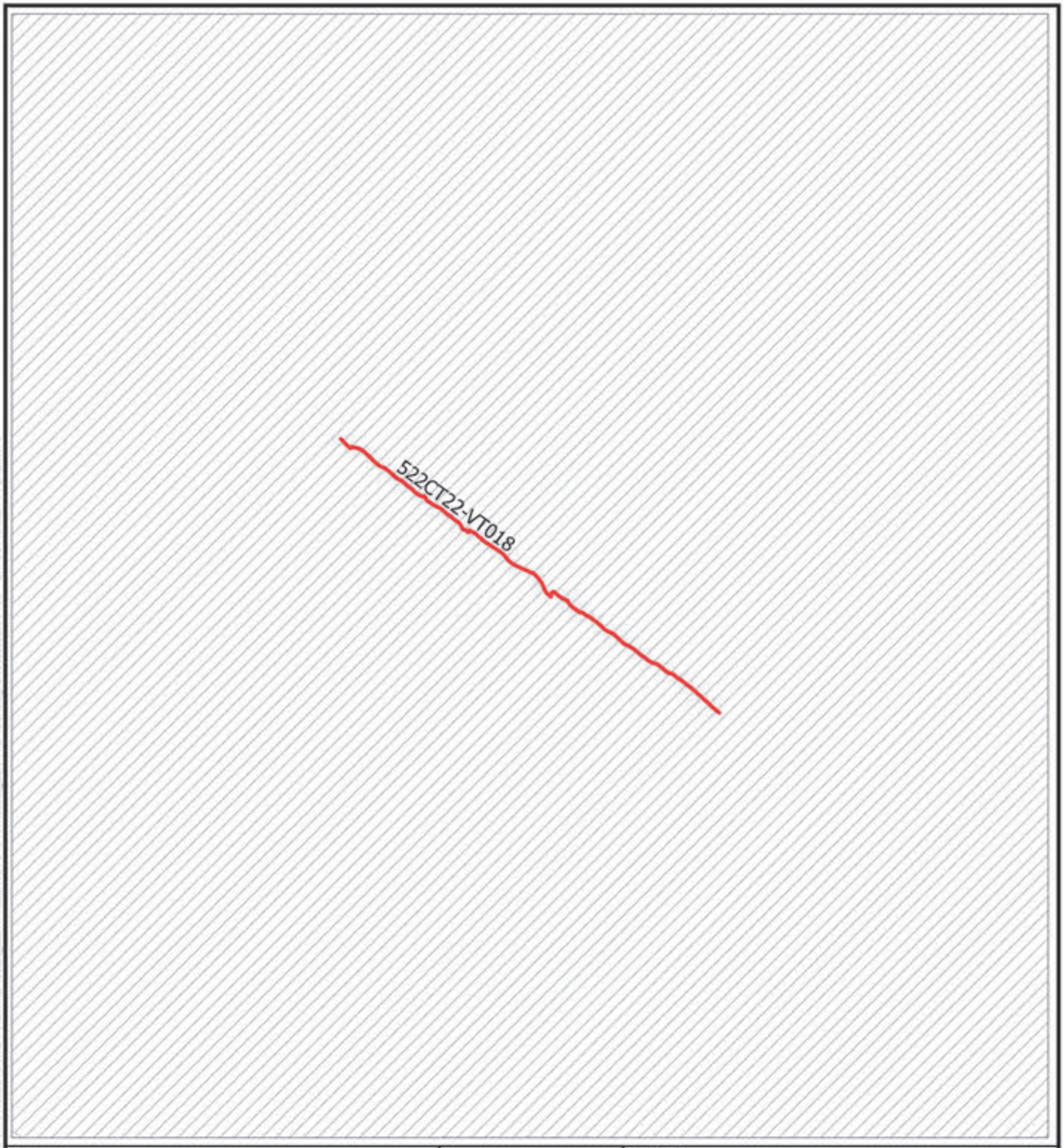
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT017

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

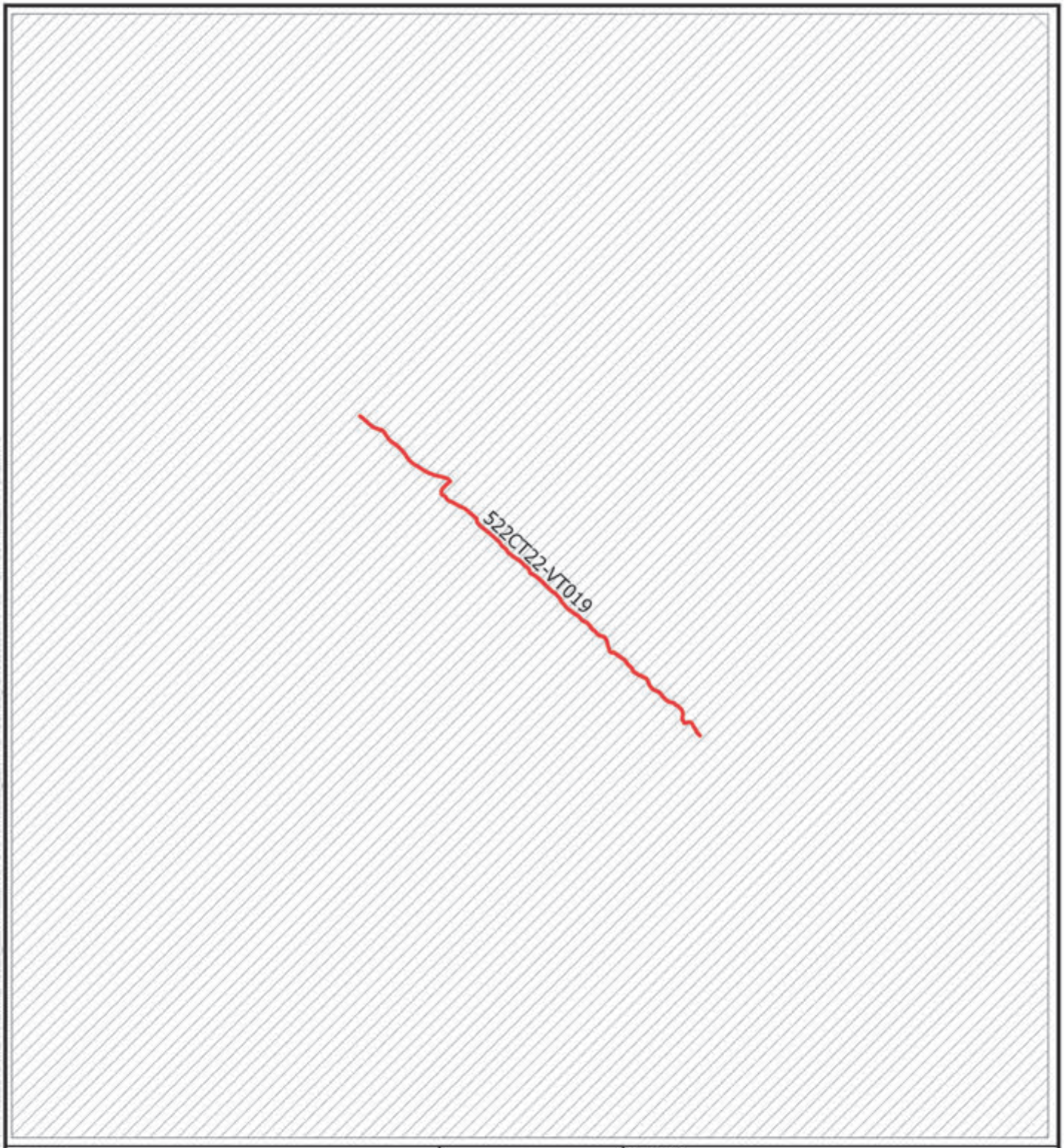
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

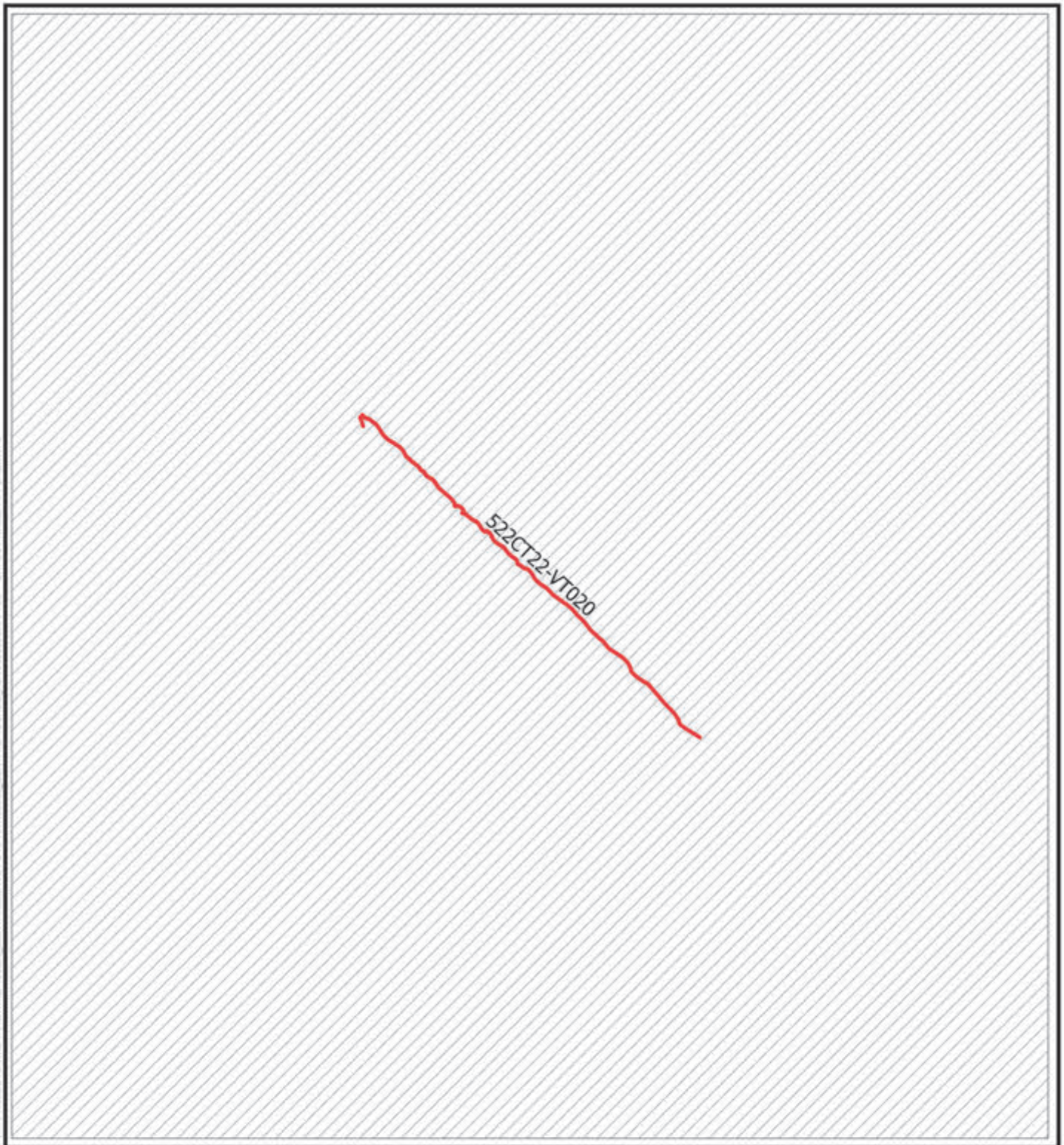
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT019

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHAEWIN_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

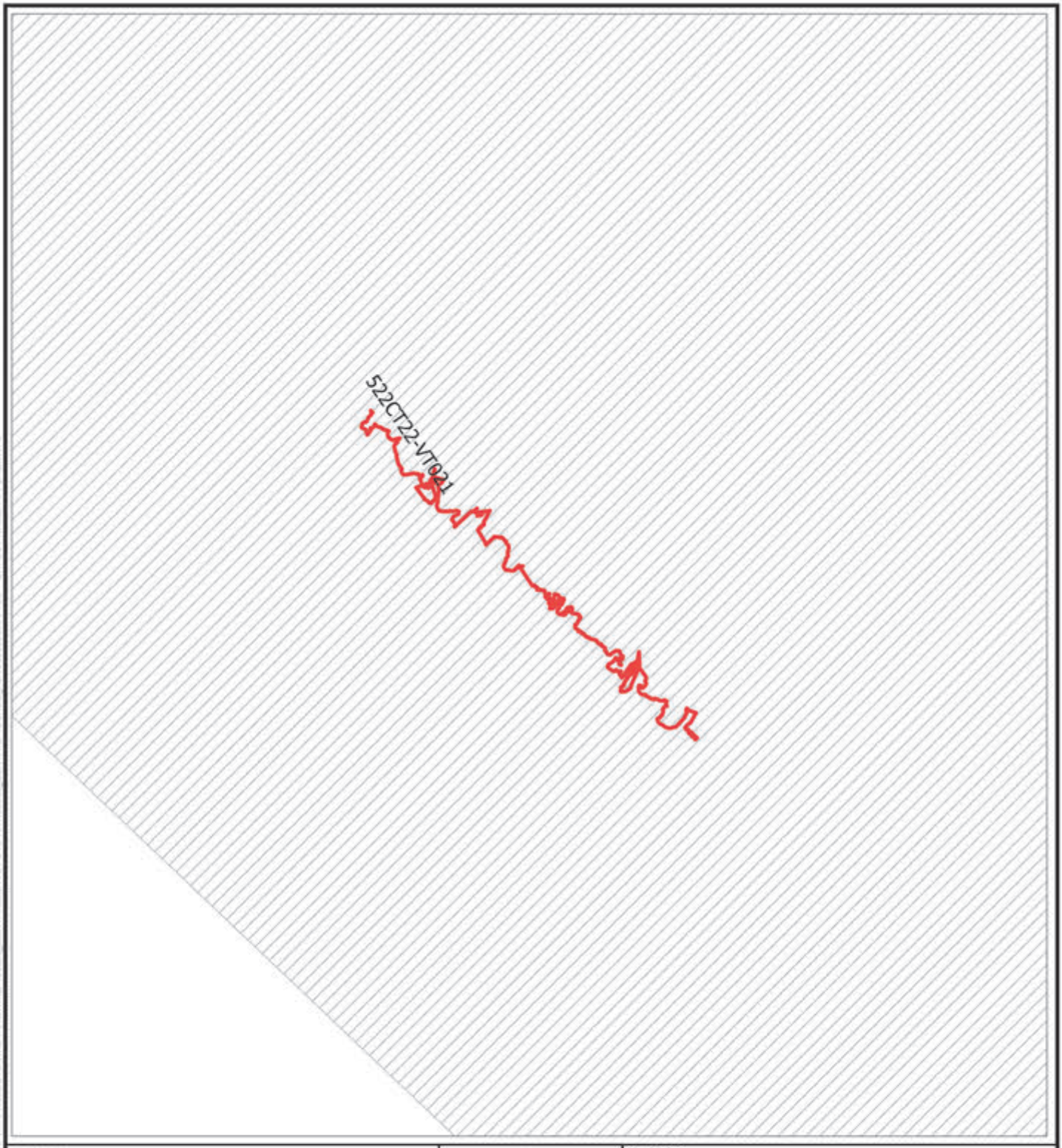
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT020

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
CT OECC

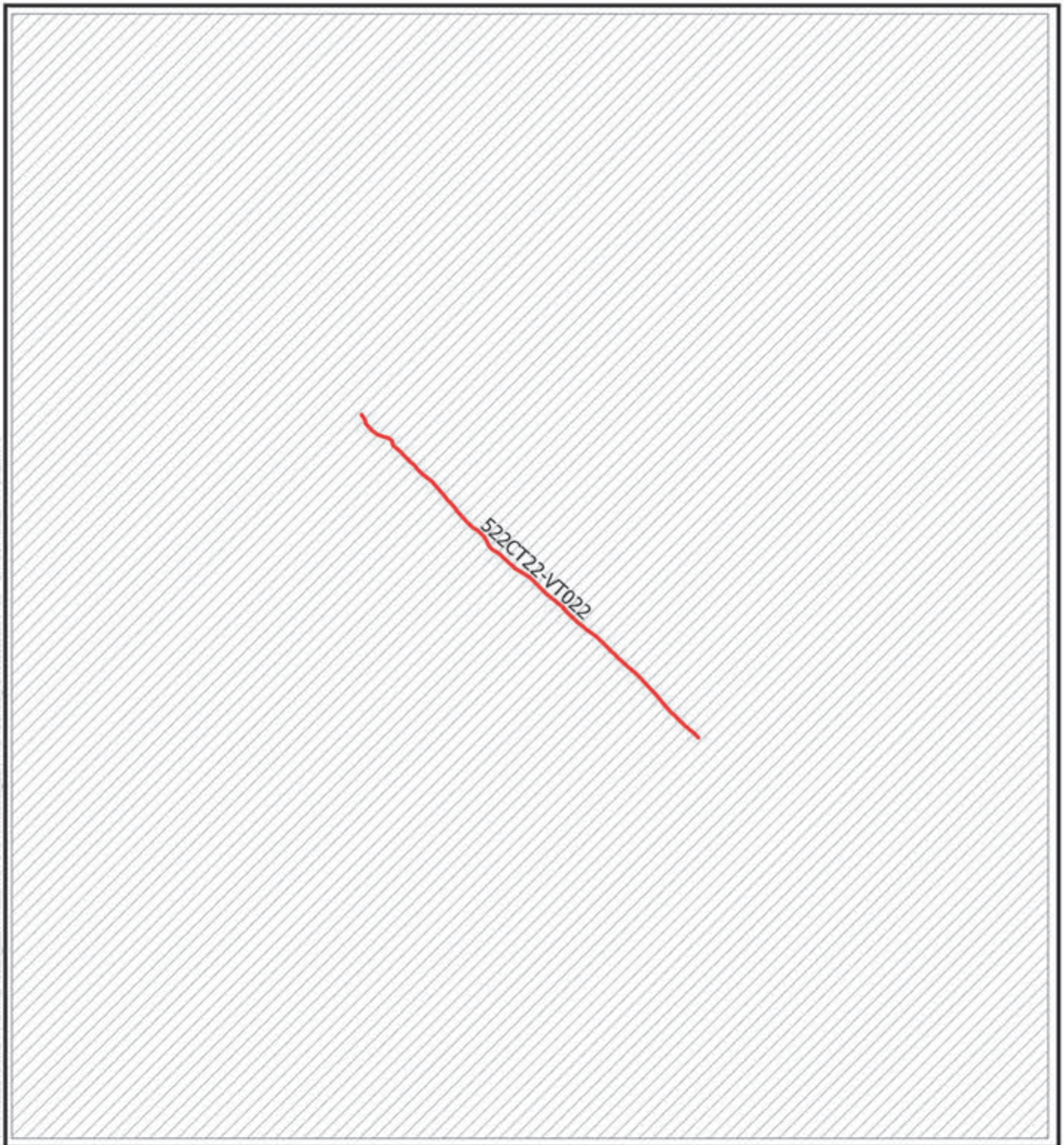
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT021

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAREA\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

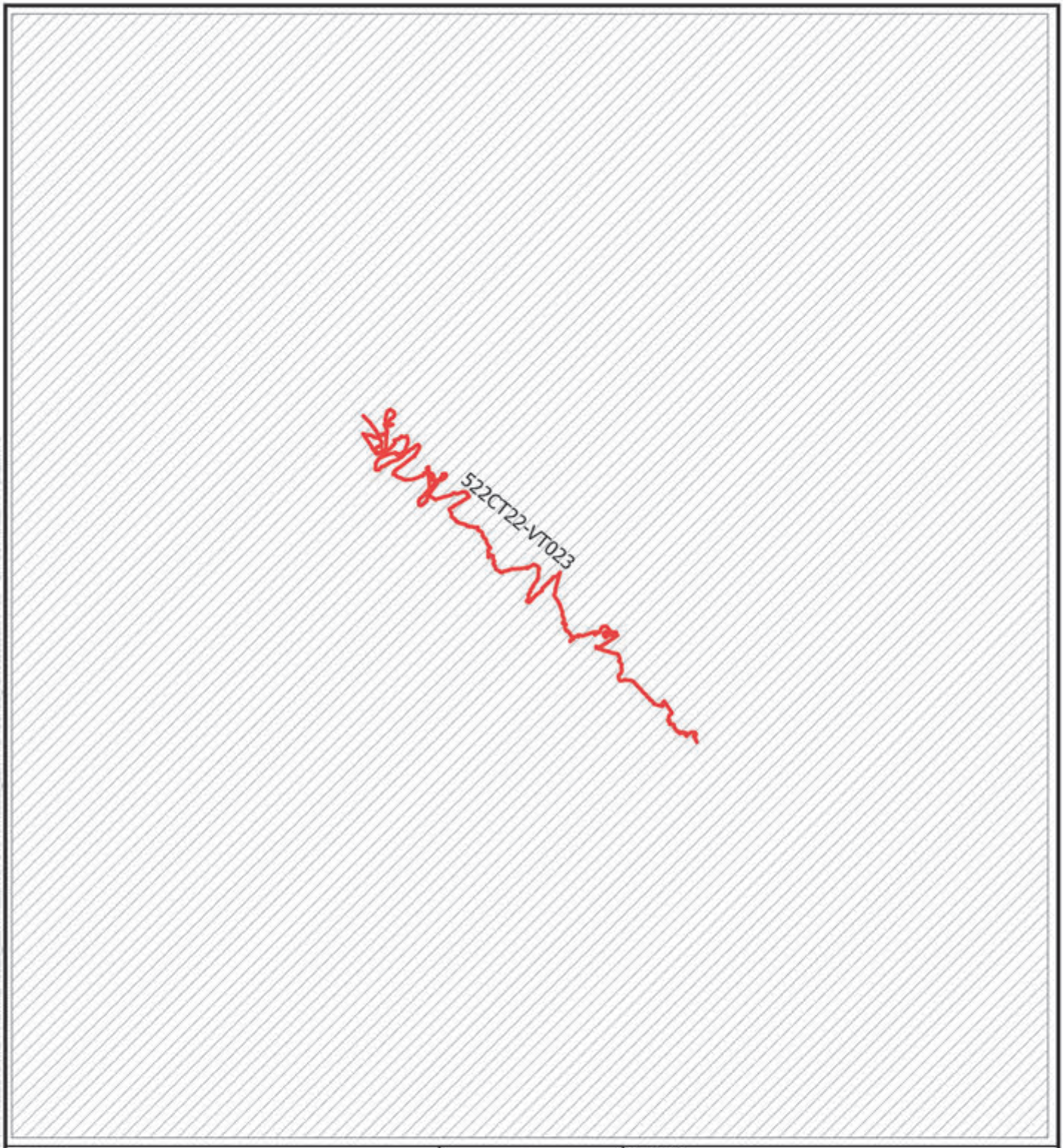
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT022

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

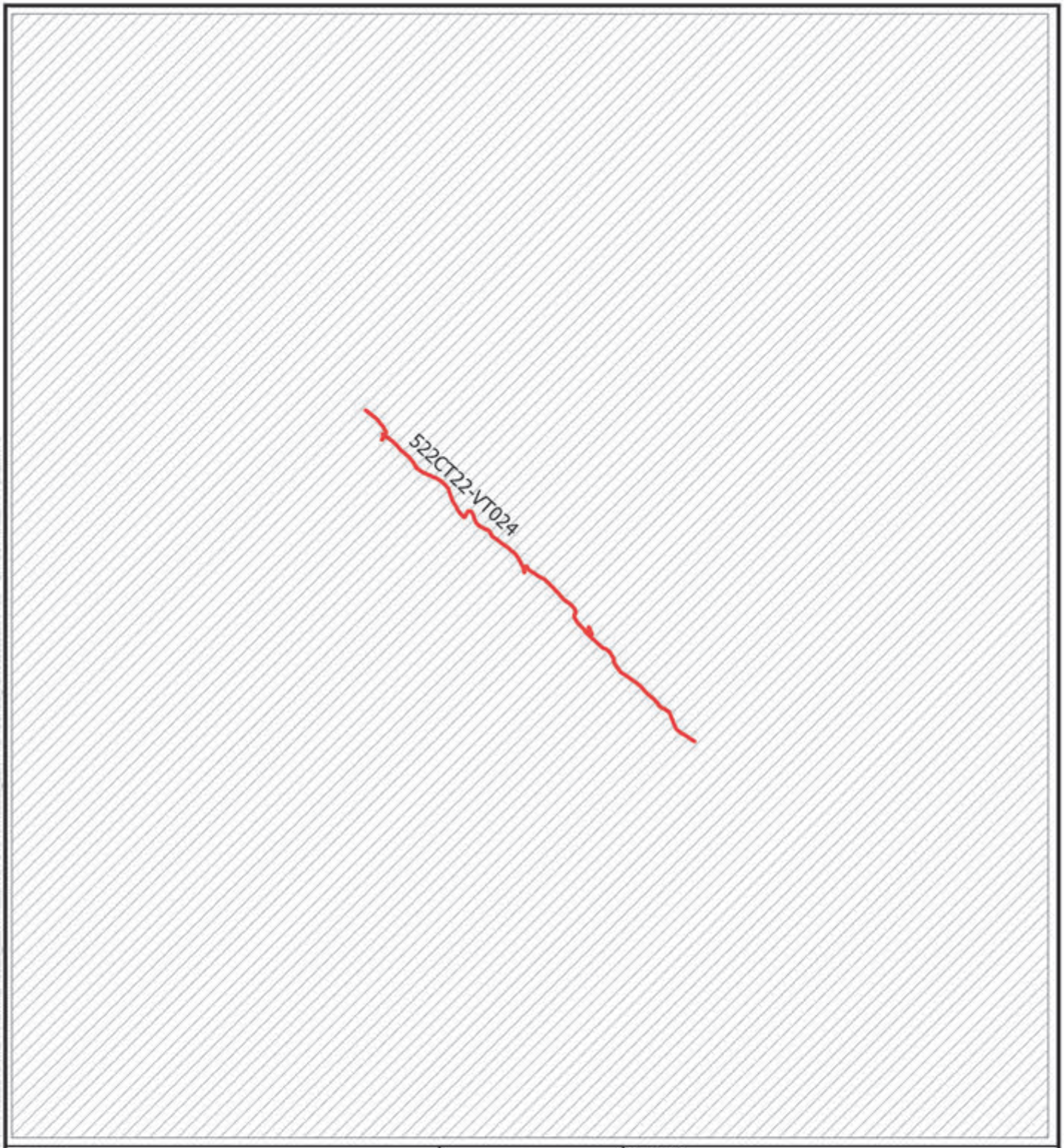
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT023

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

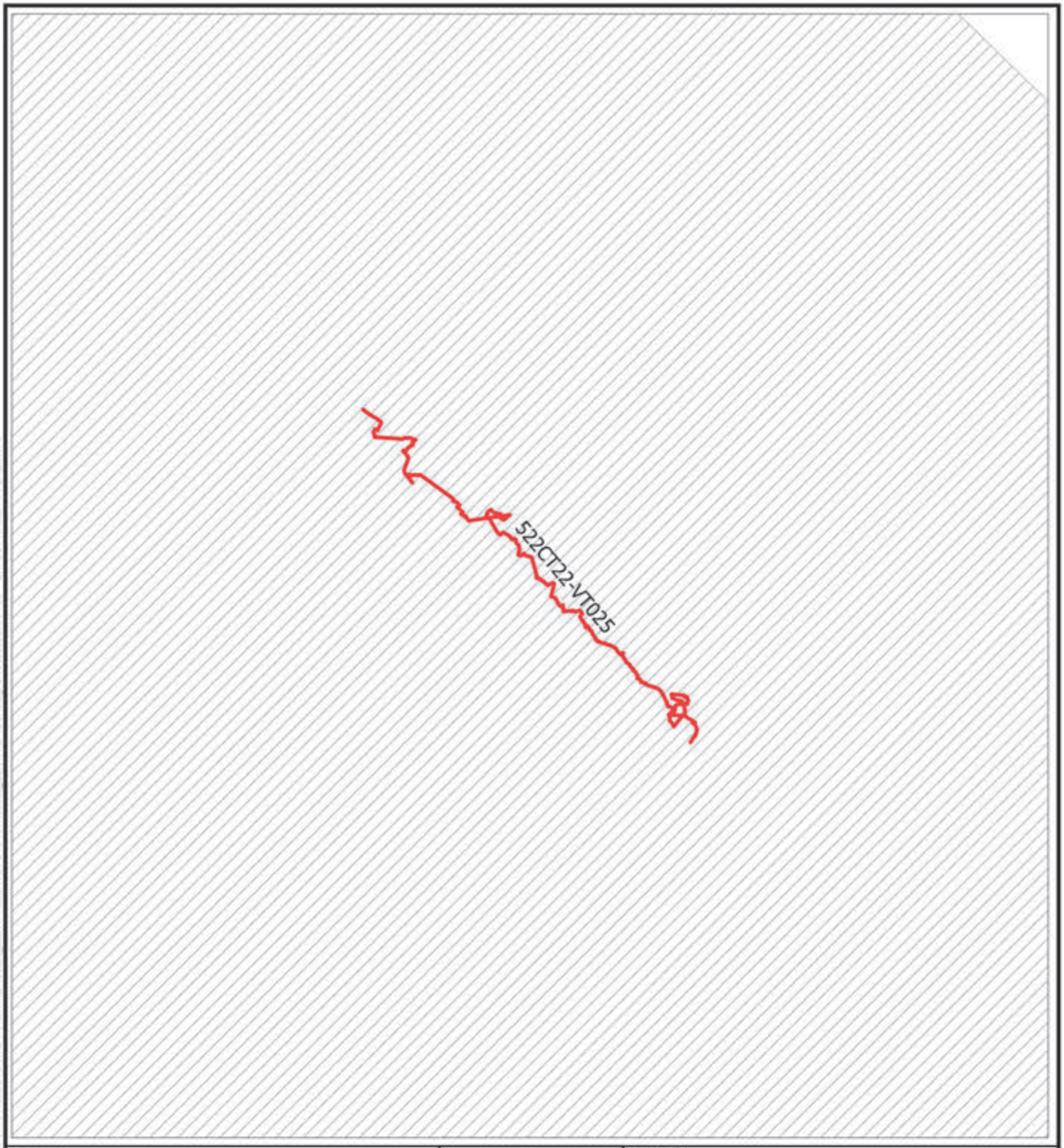
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT024	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

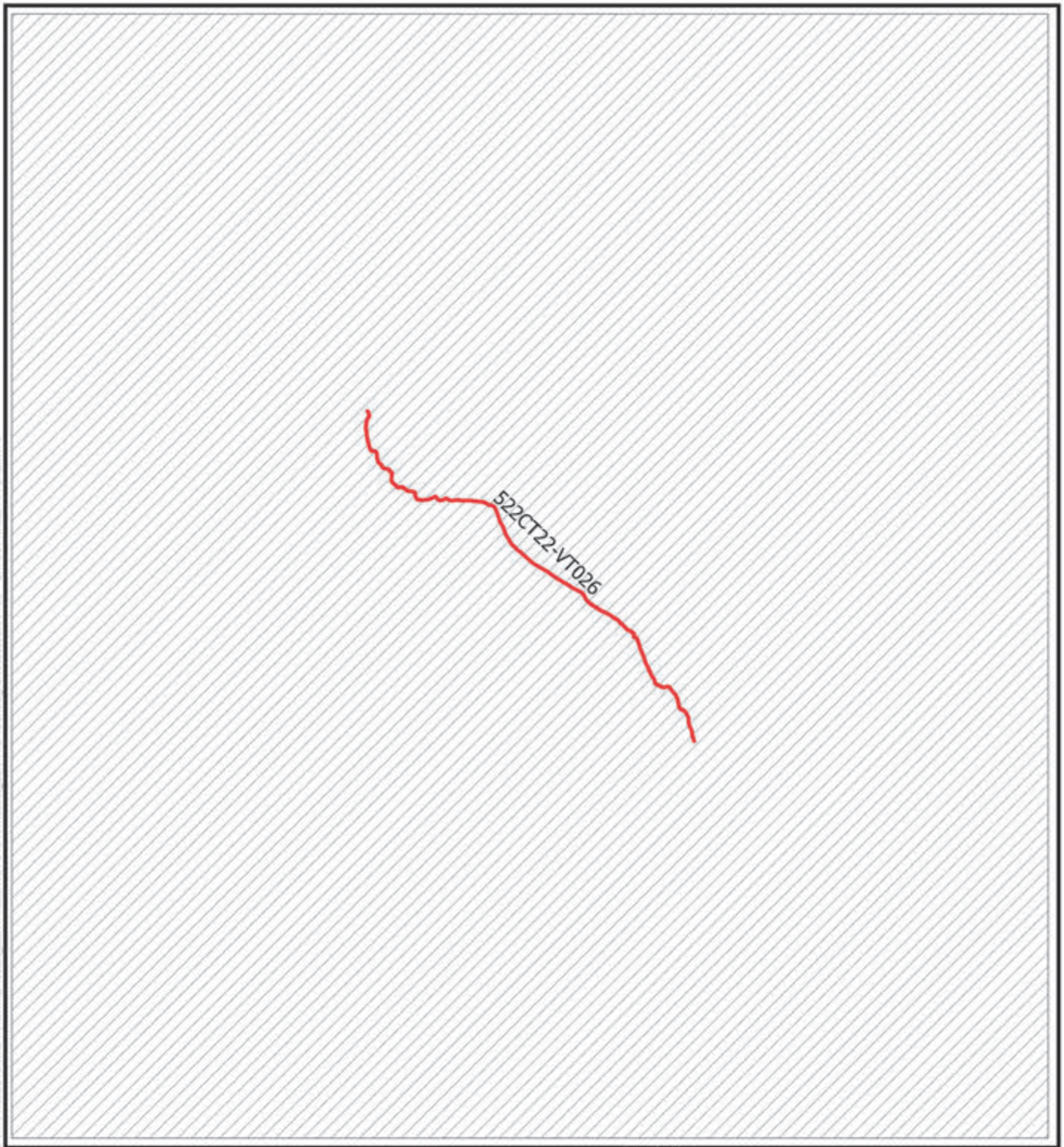
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT025

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

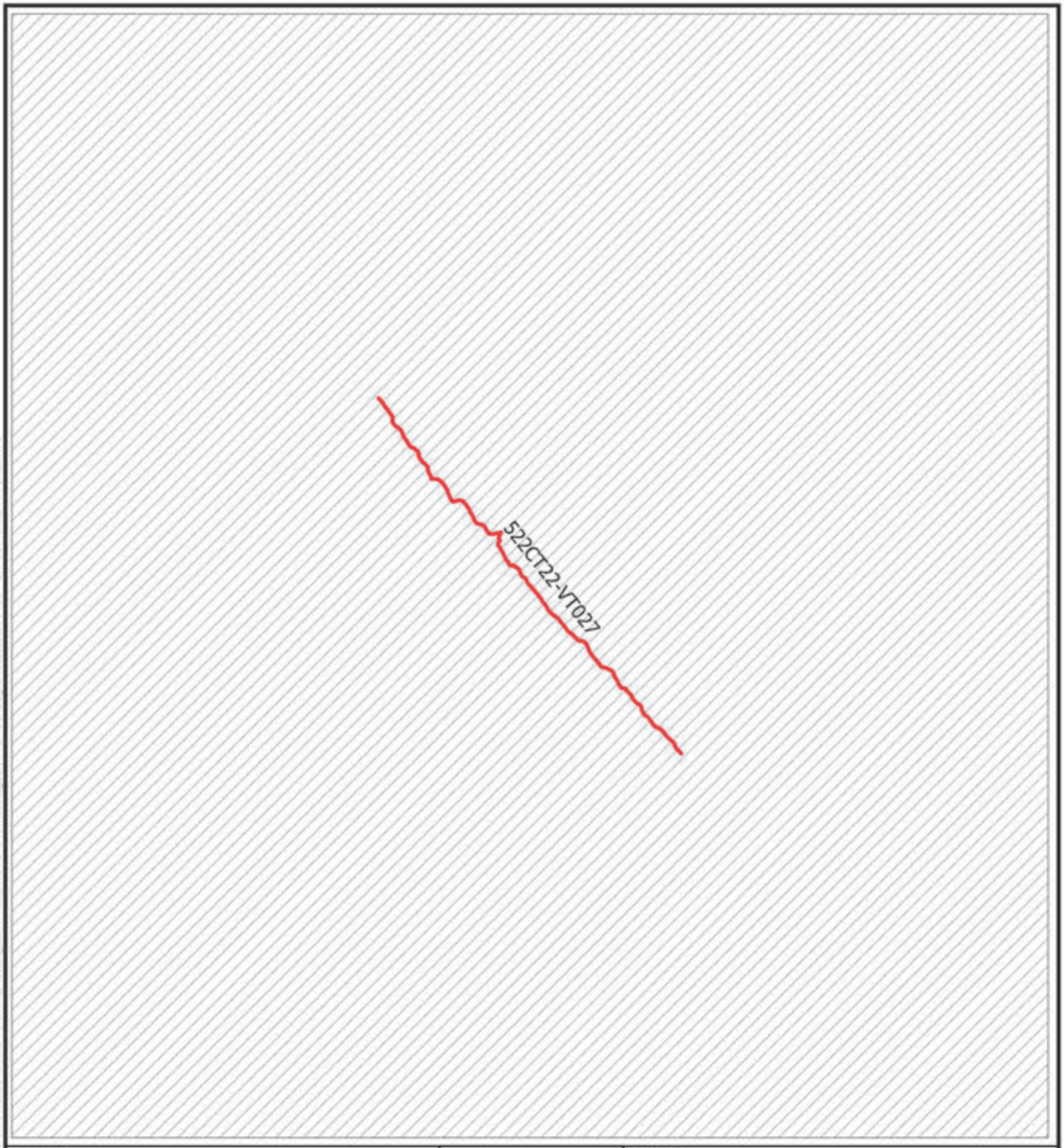
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT026

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

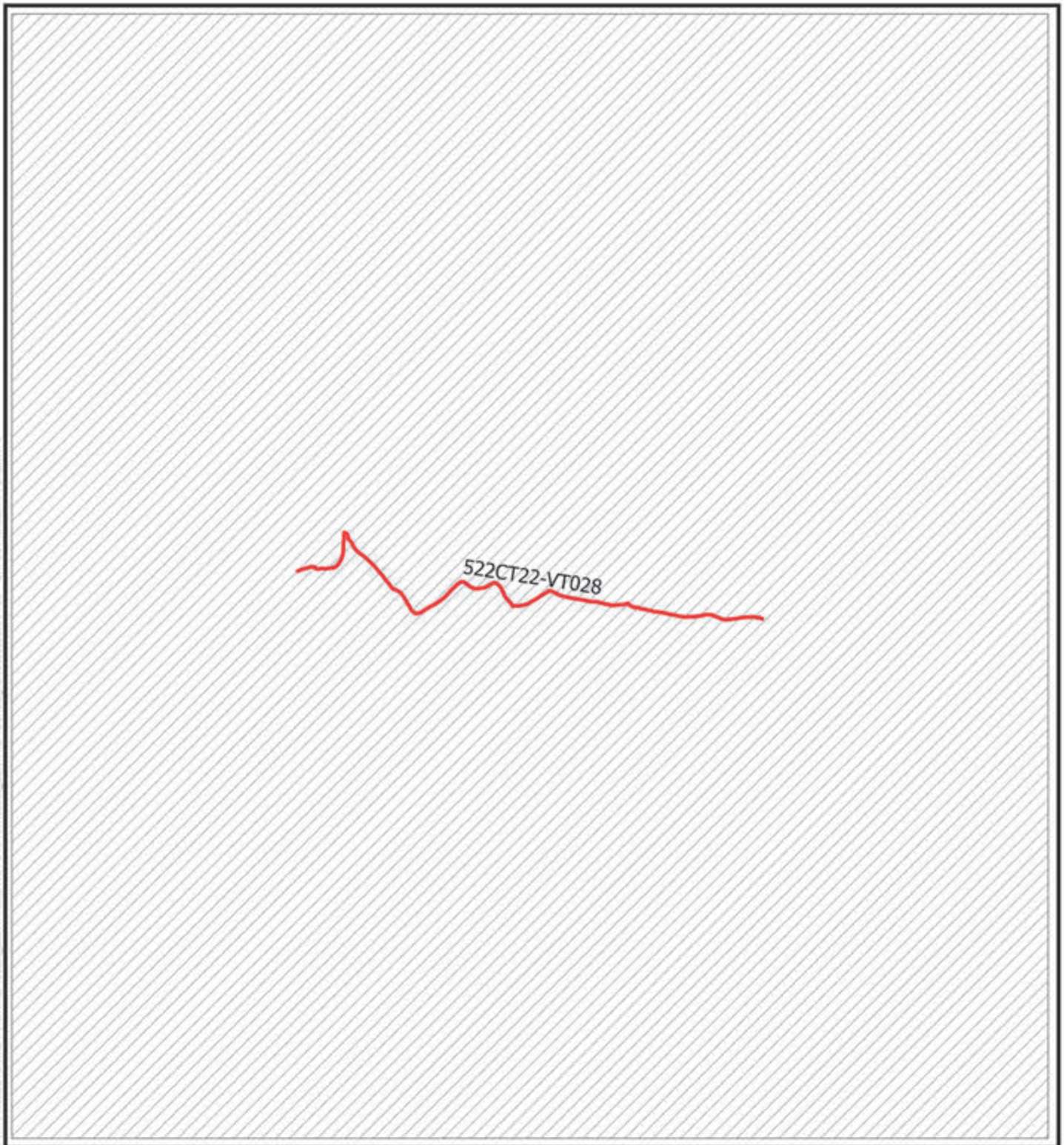
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT027

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

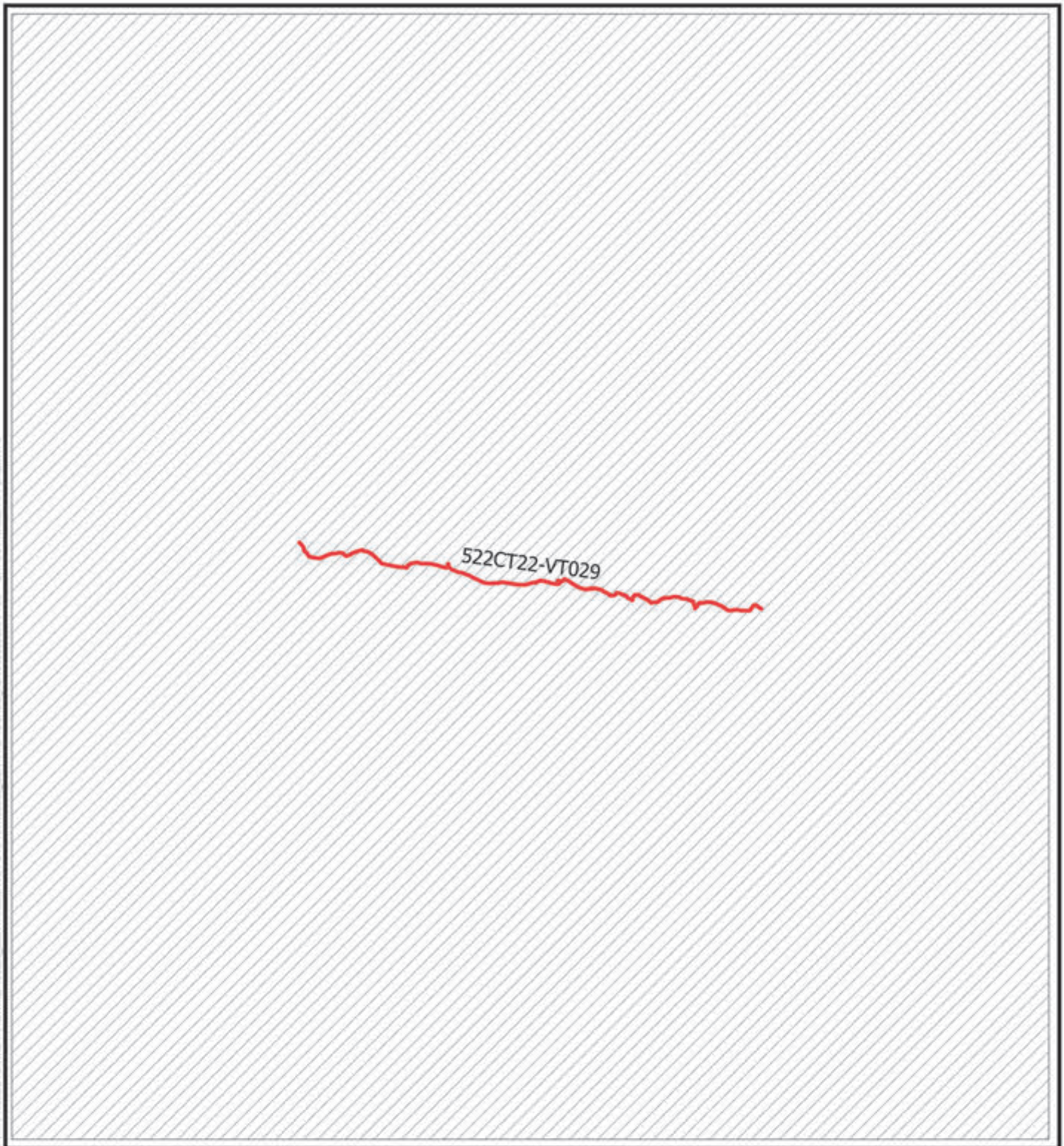
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT028

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAYERS\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
CT OECC

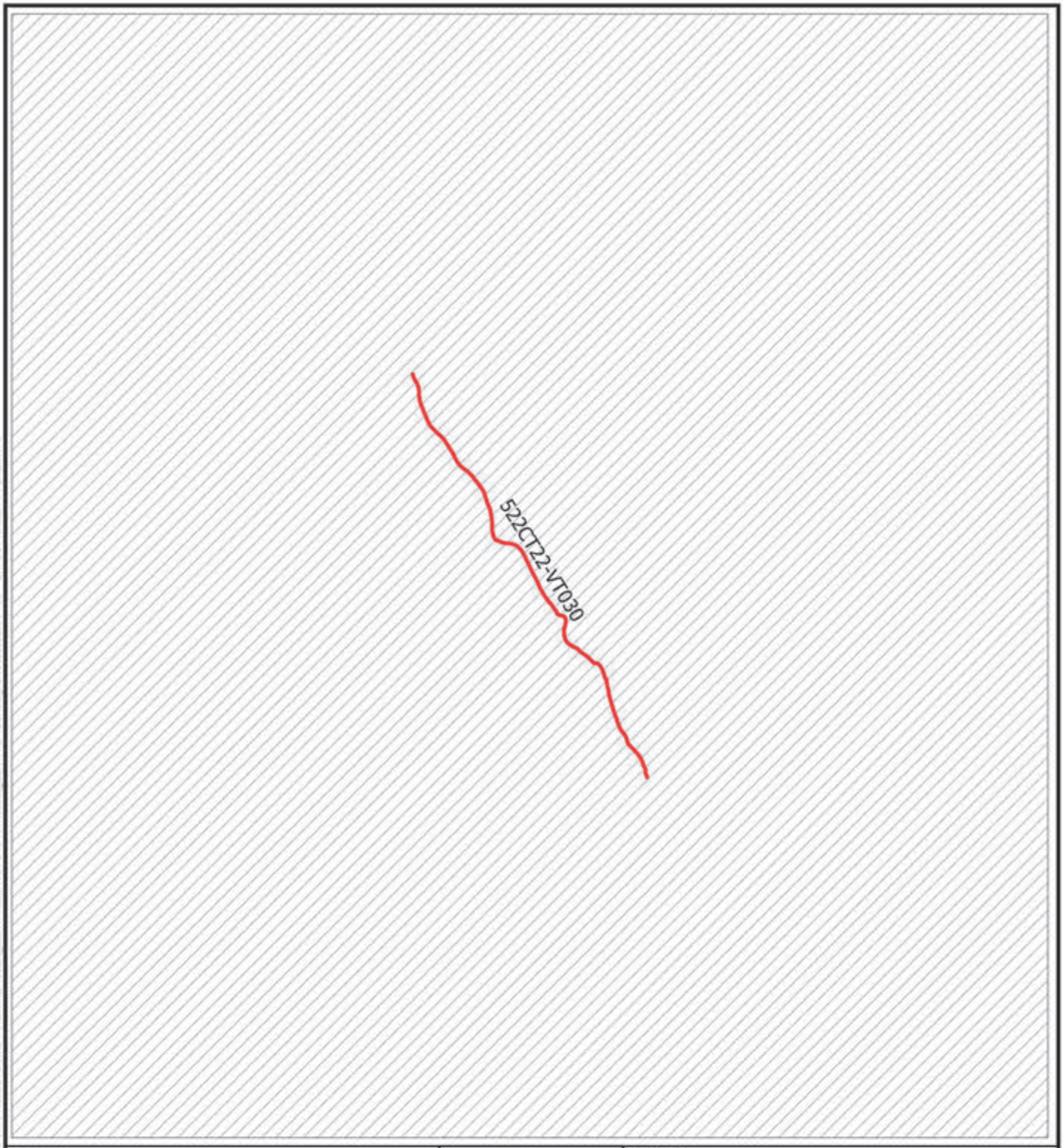
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT029

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

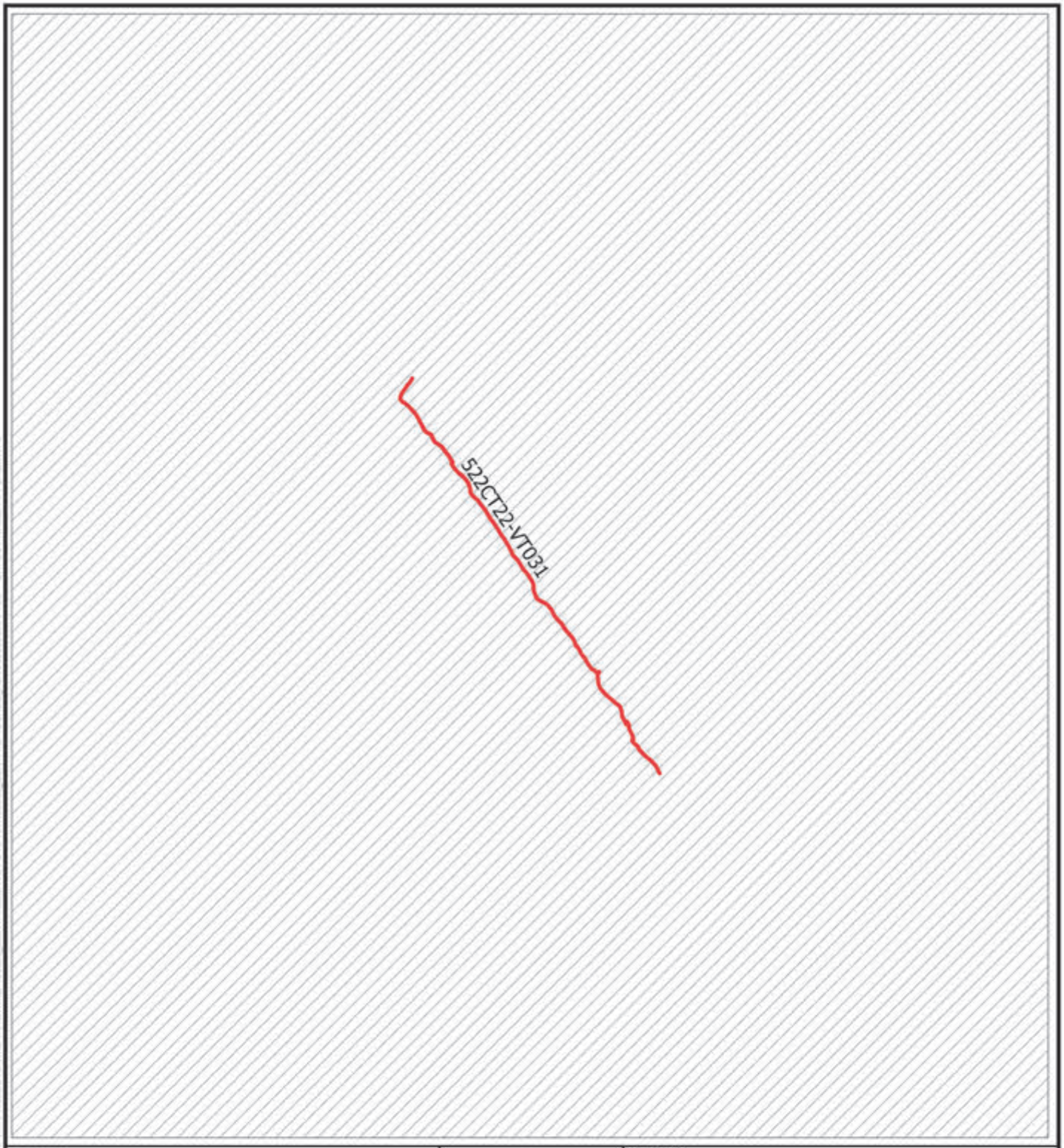
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT030

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMDATA\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

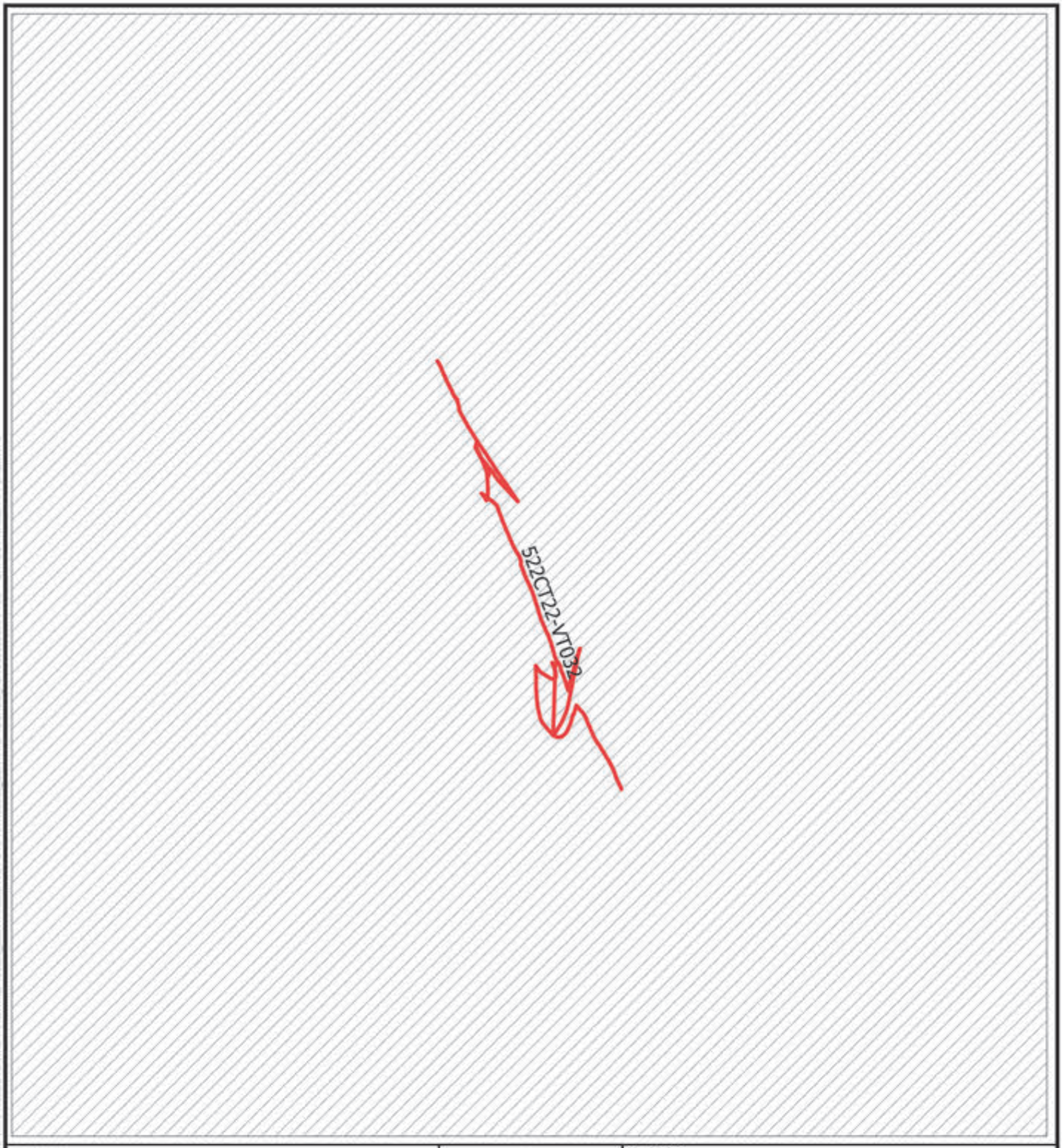
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT031	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT032	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

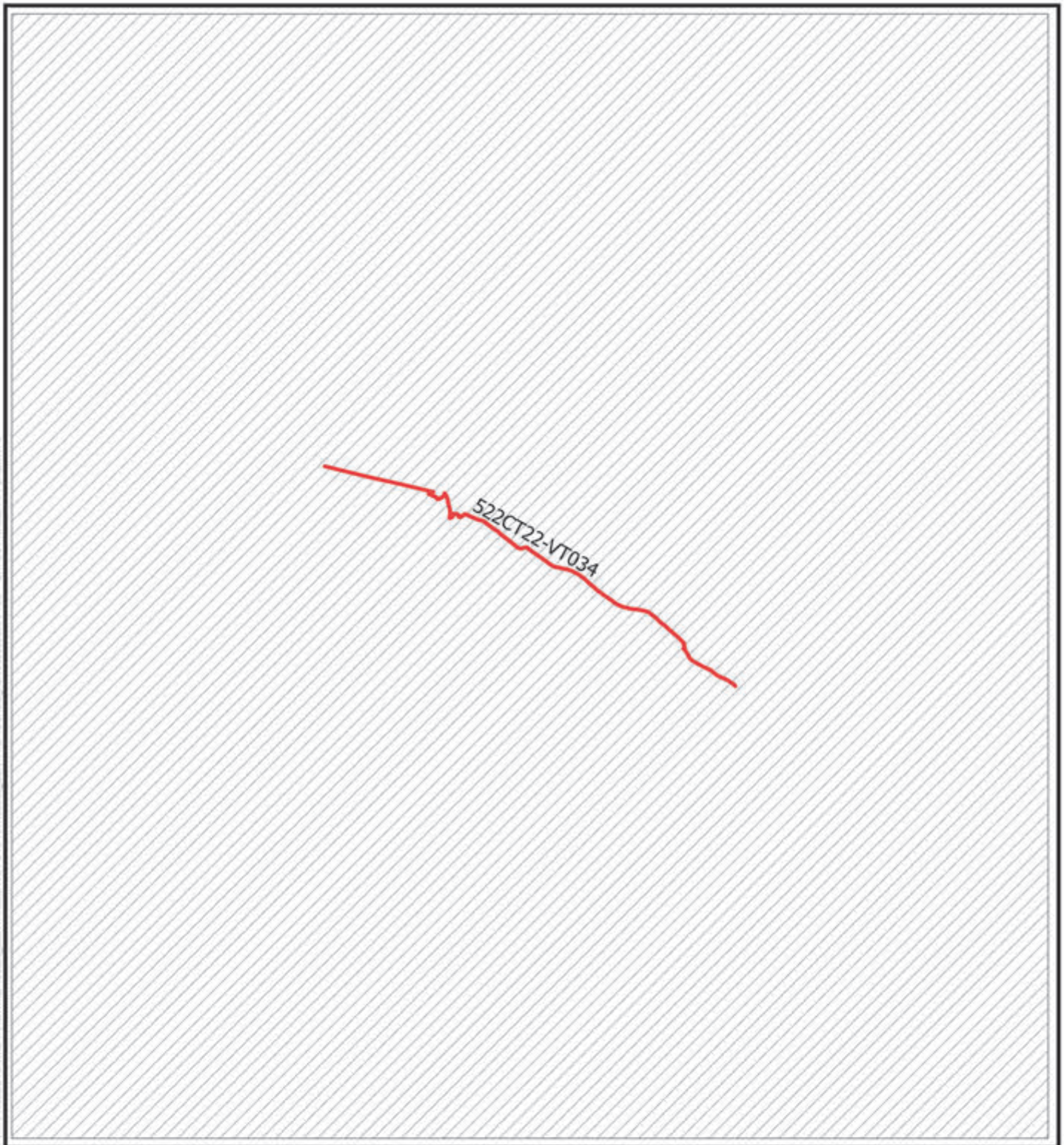
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT033

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

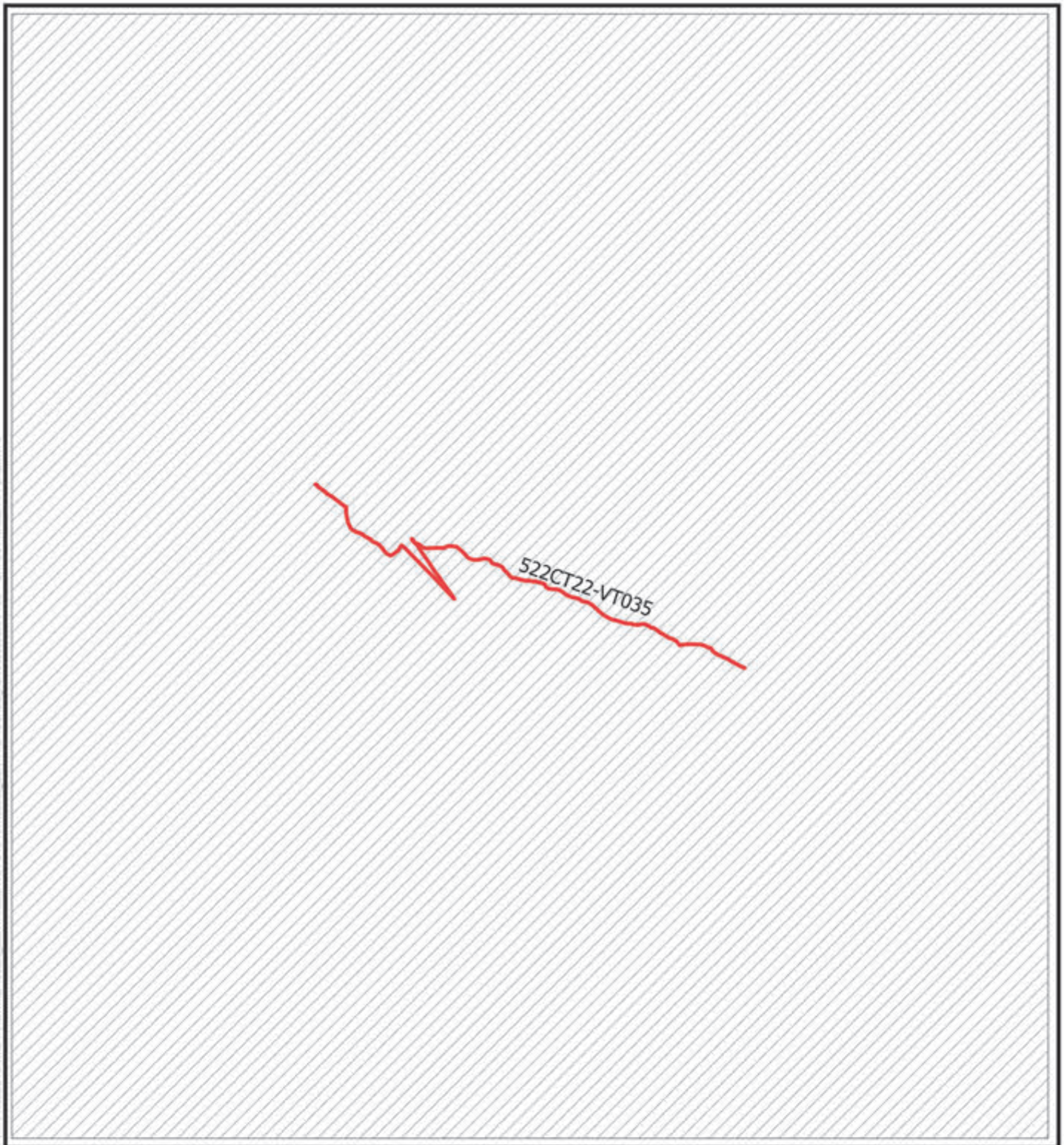
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT034	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

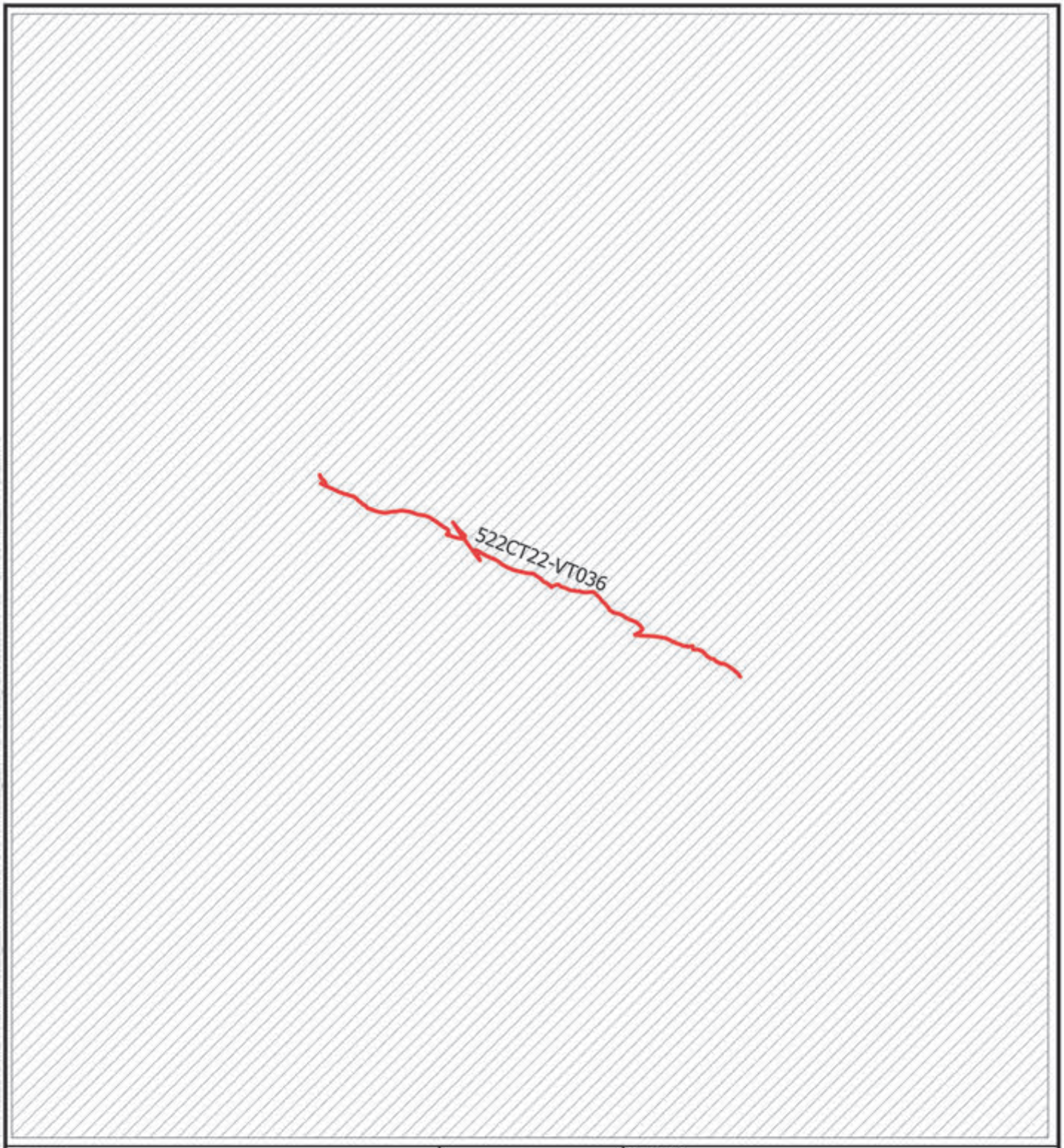
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT035

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

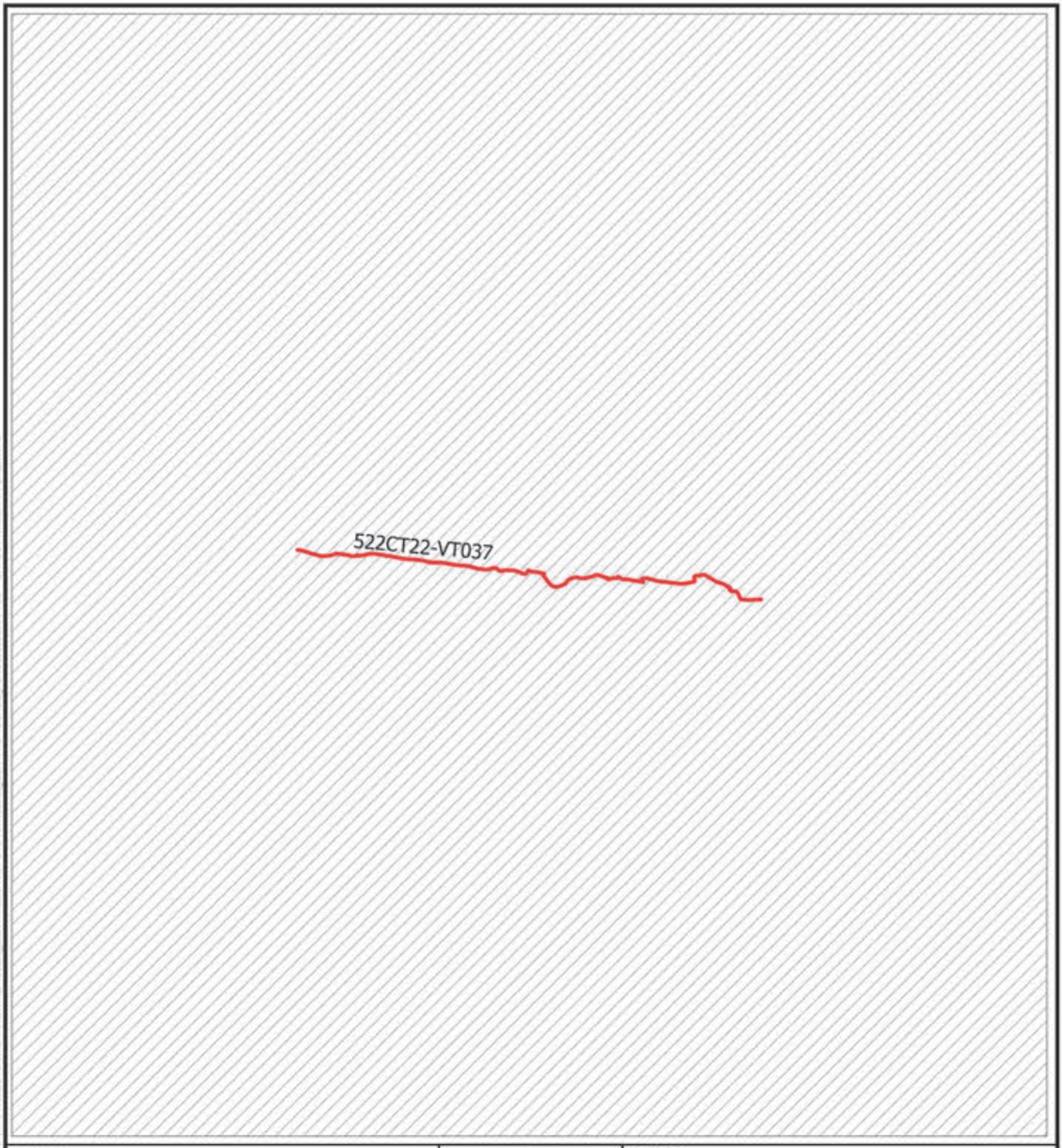
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT036

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

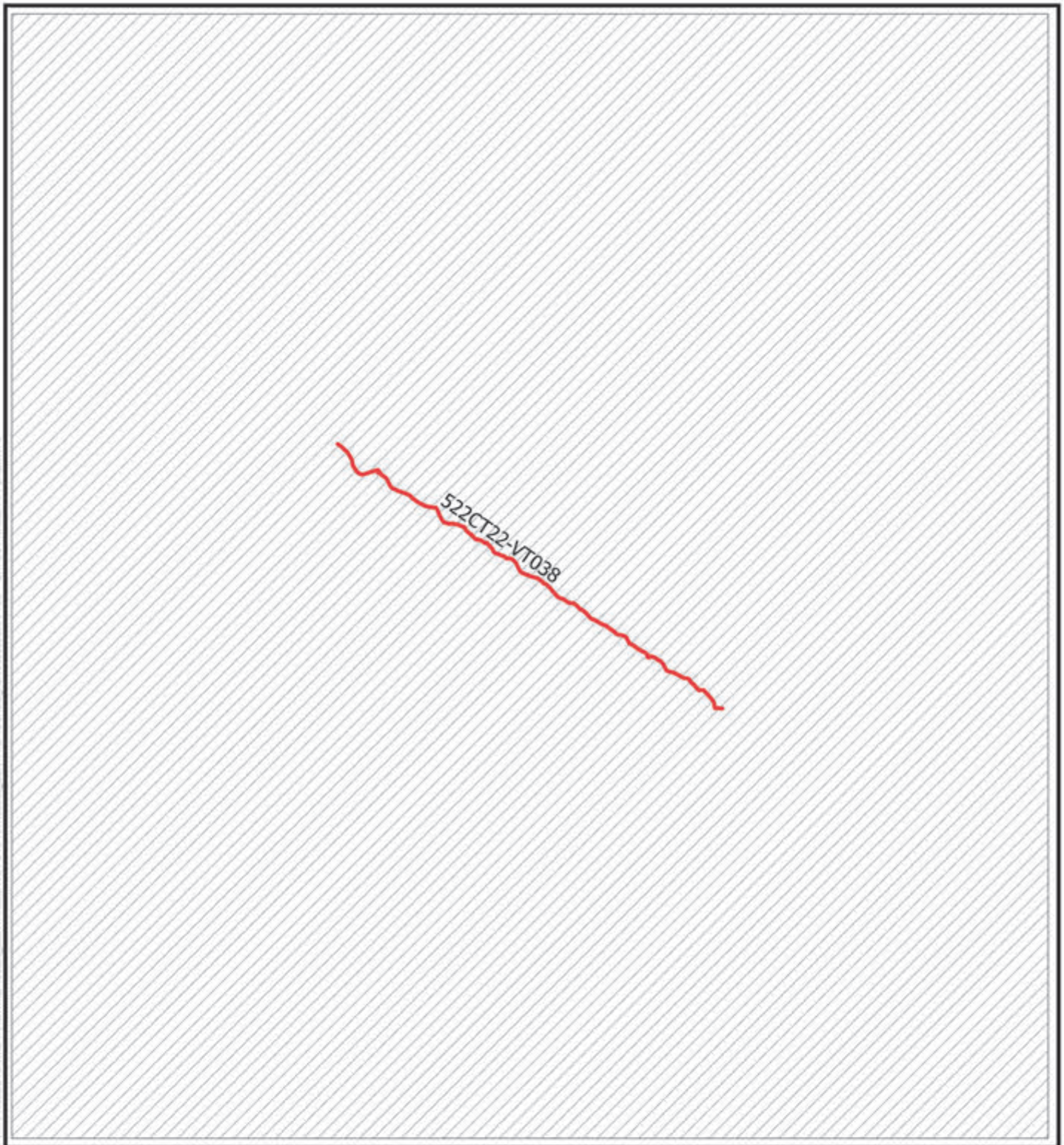
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT037

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

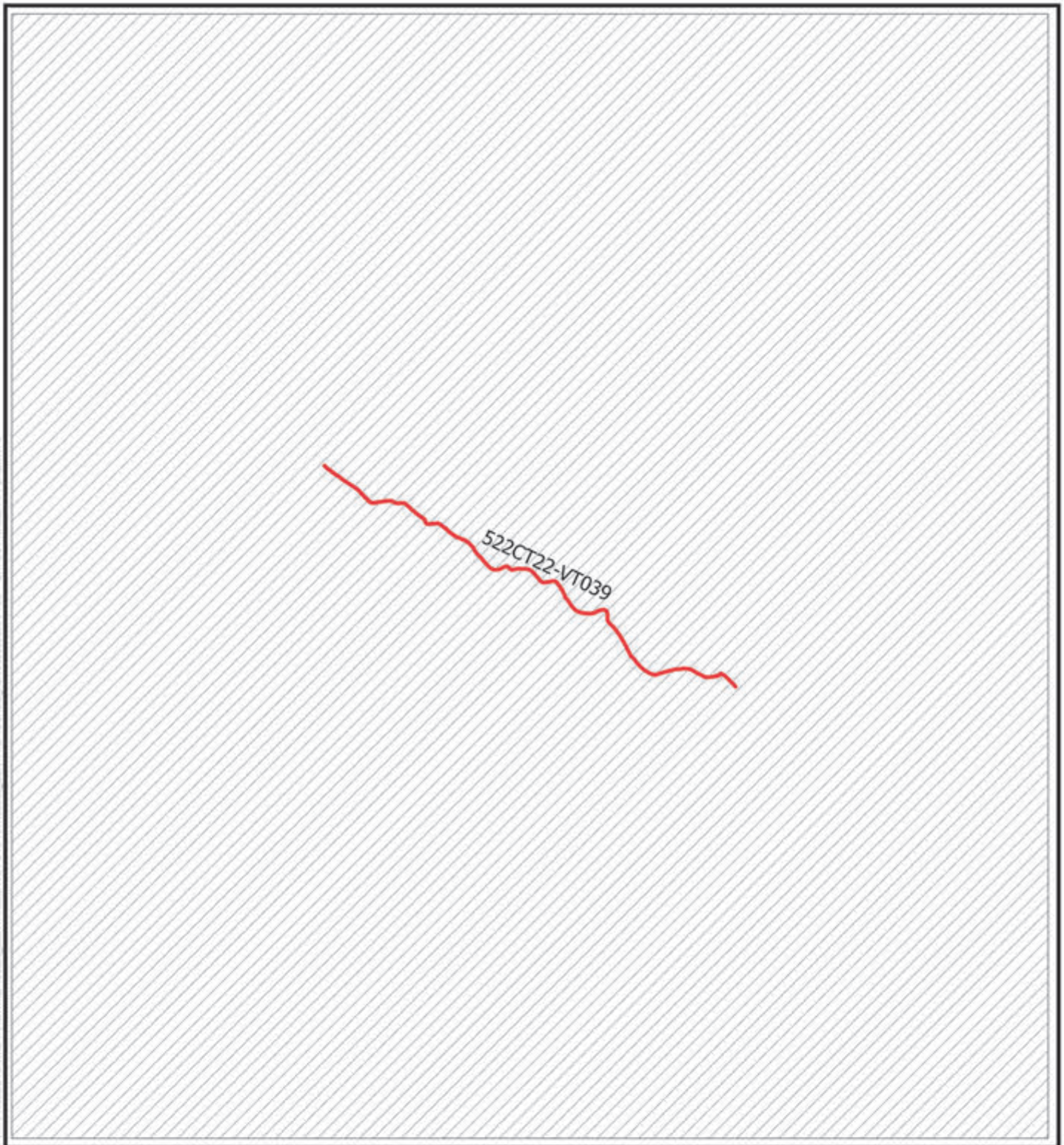
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT038

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

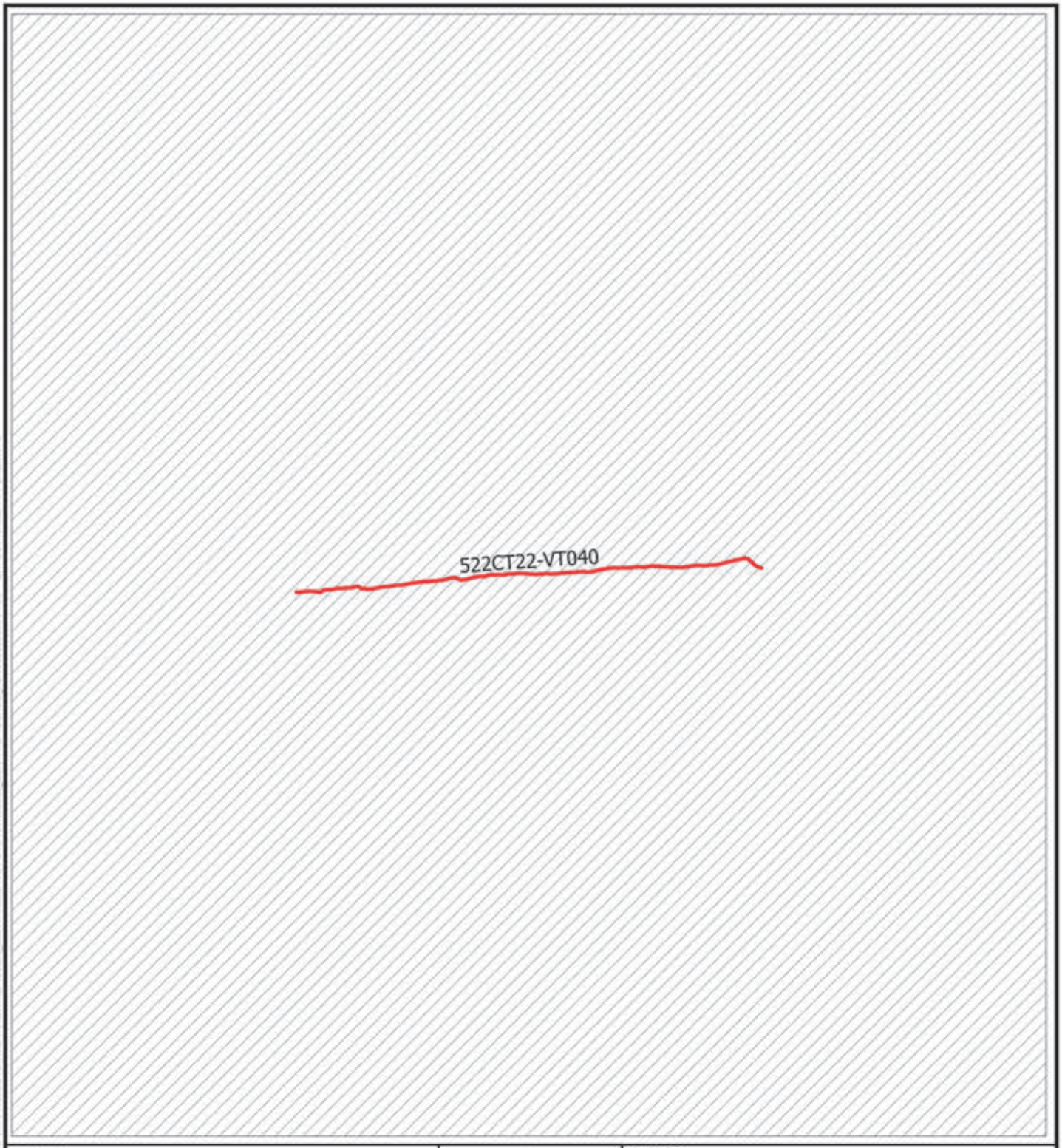
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT039

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

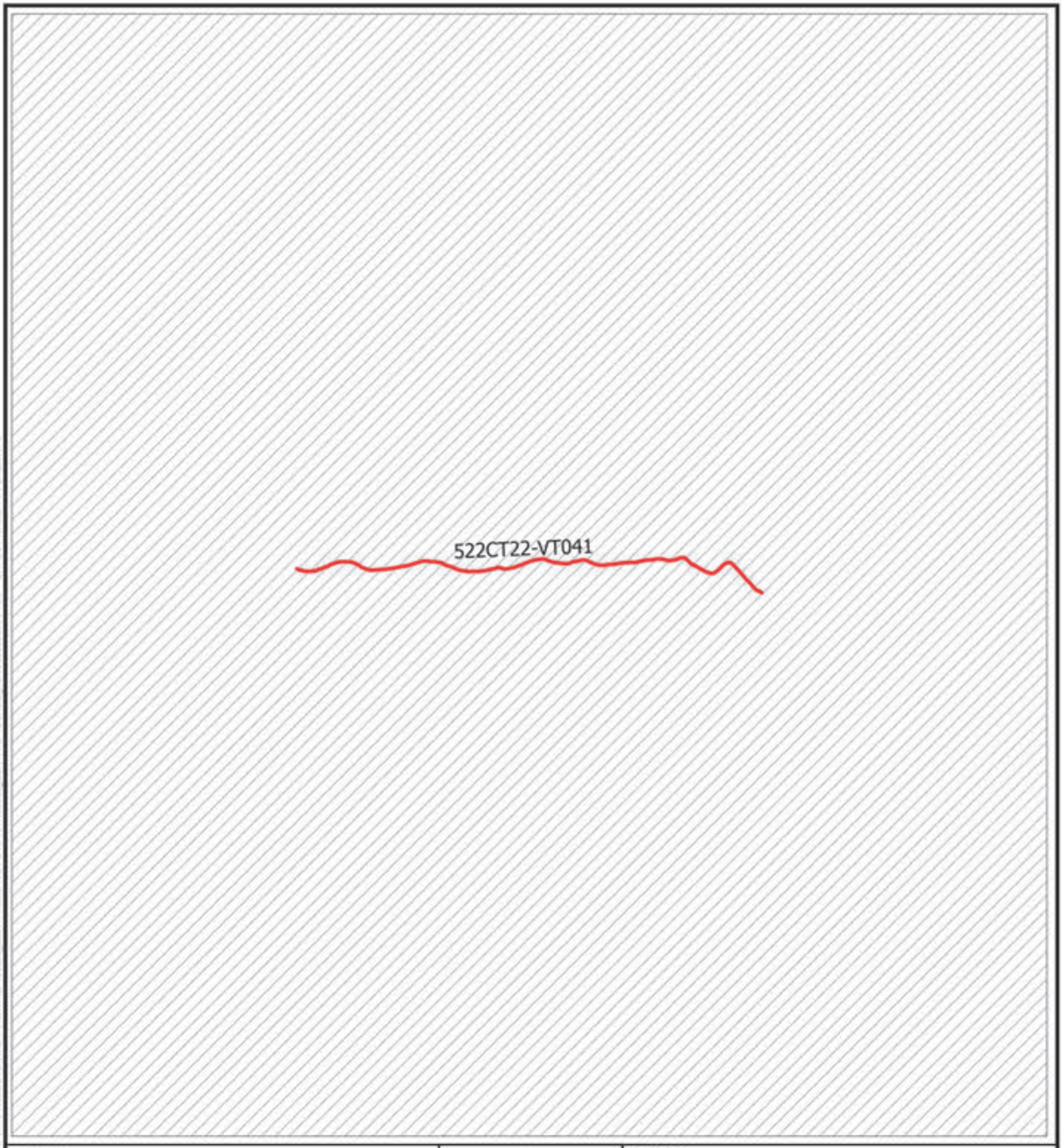
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT040

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

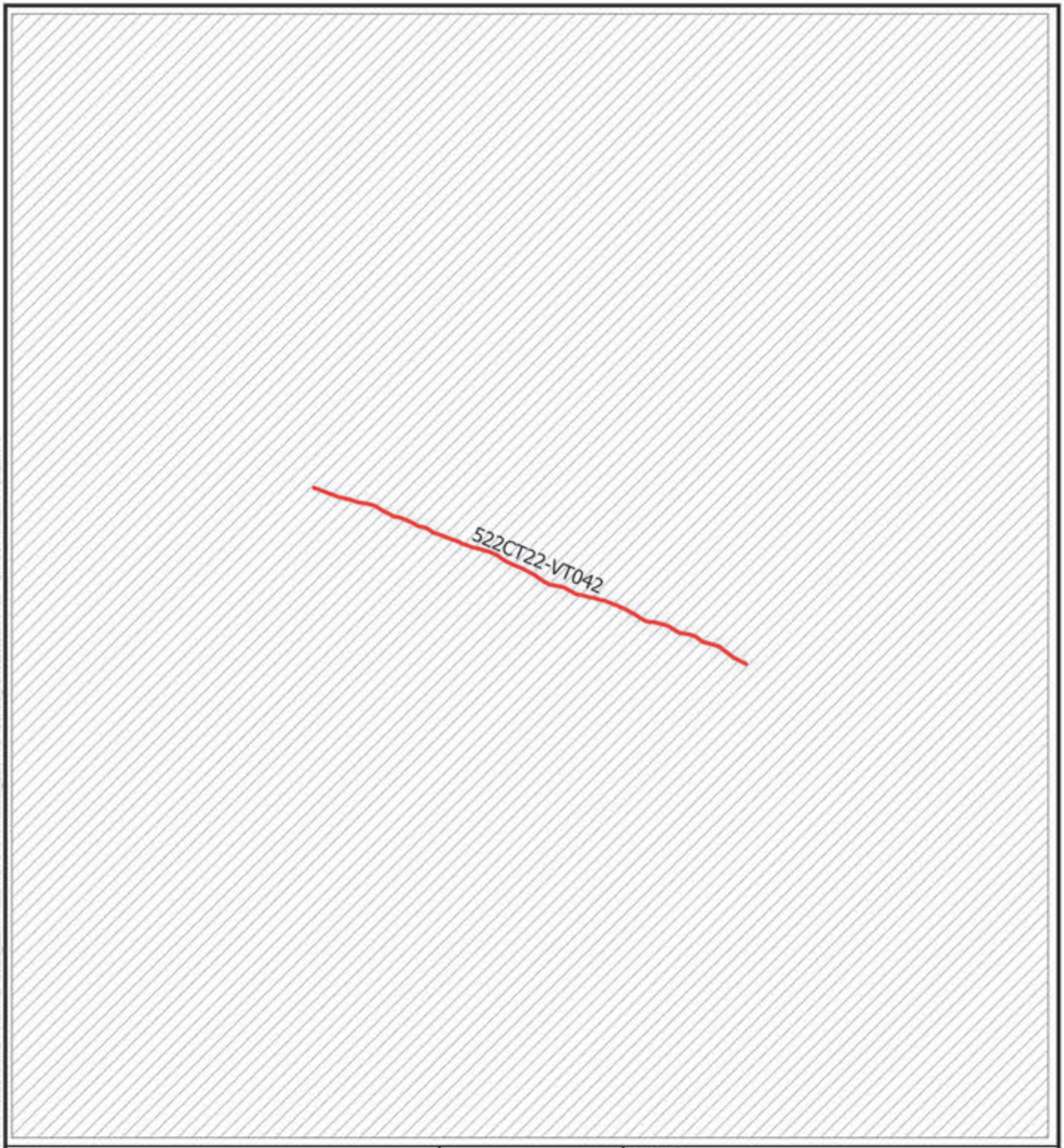
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT041

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

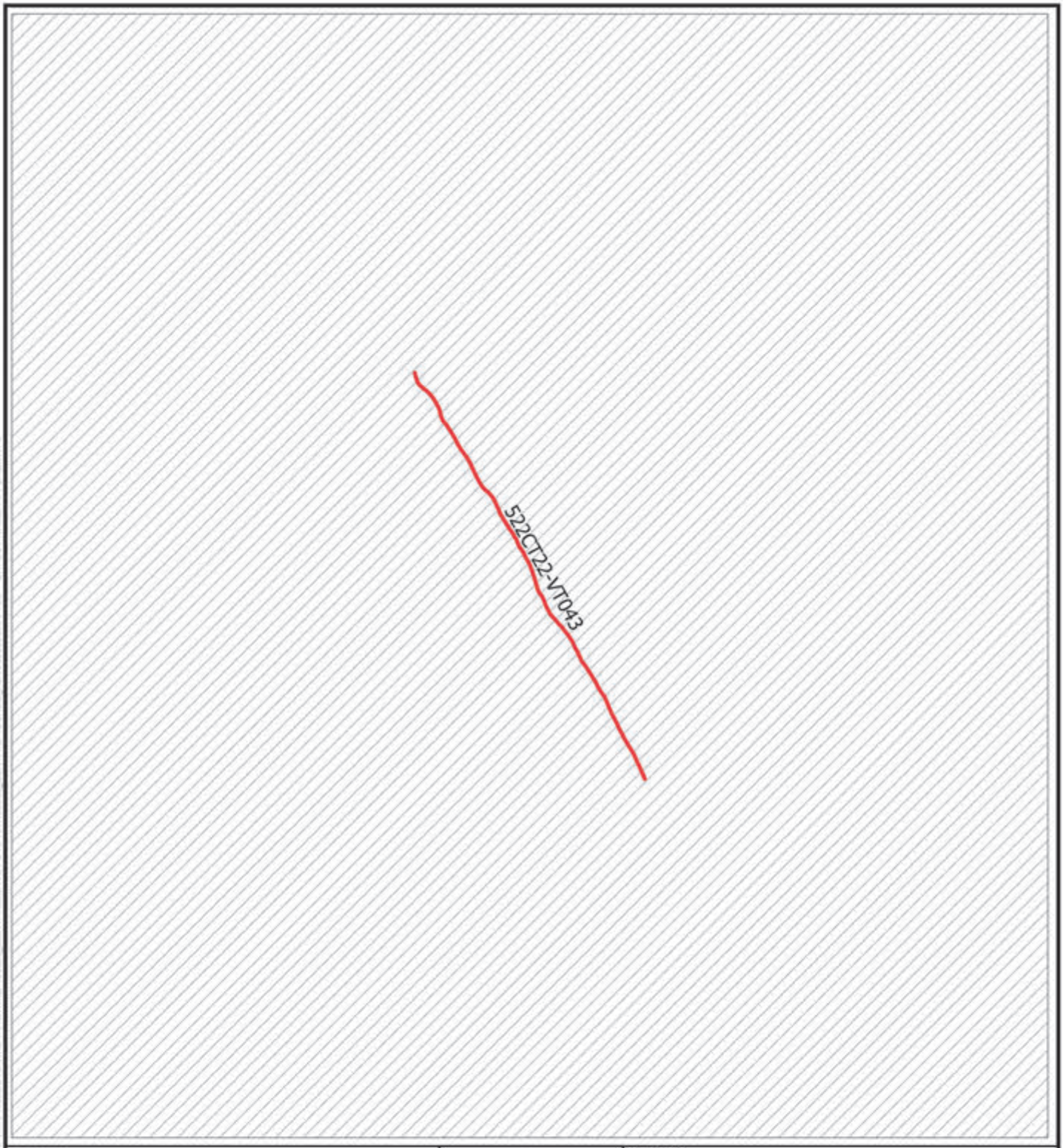
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT042

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

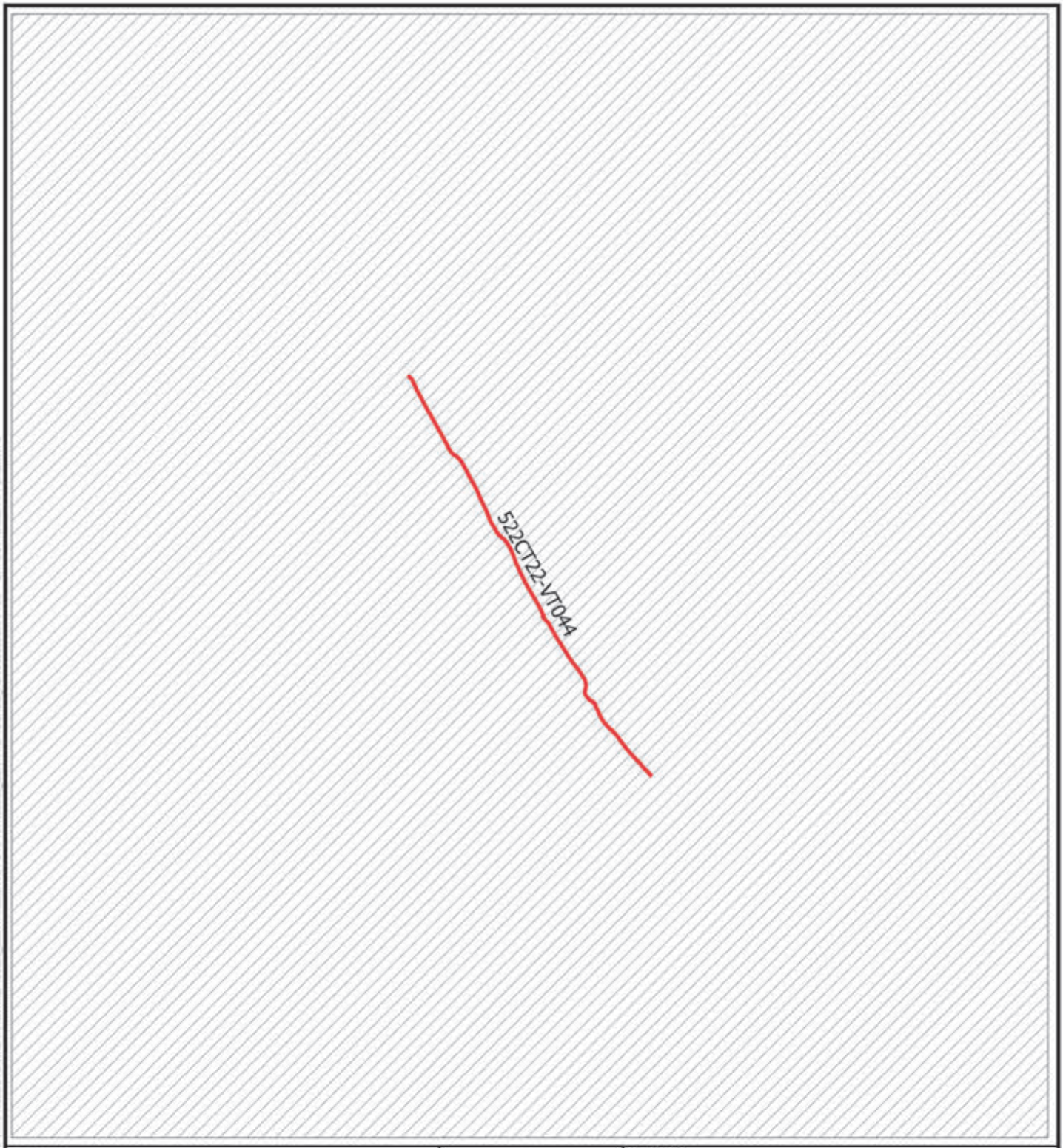
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT043	

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

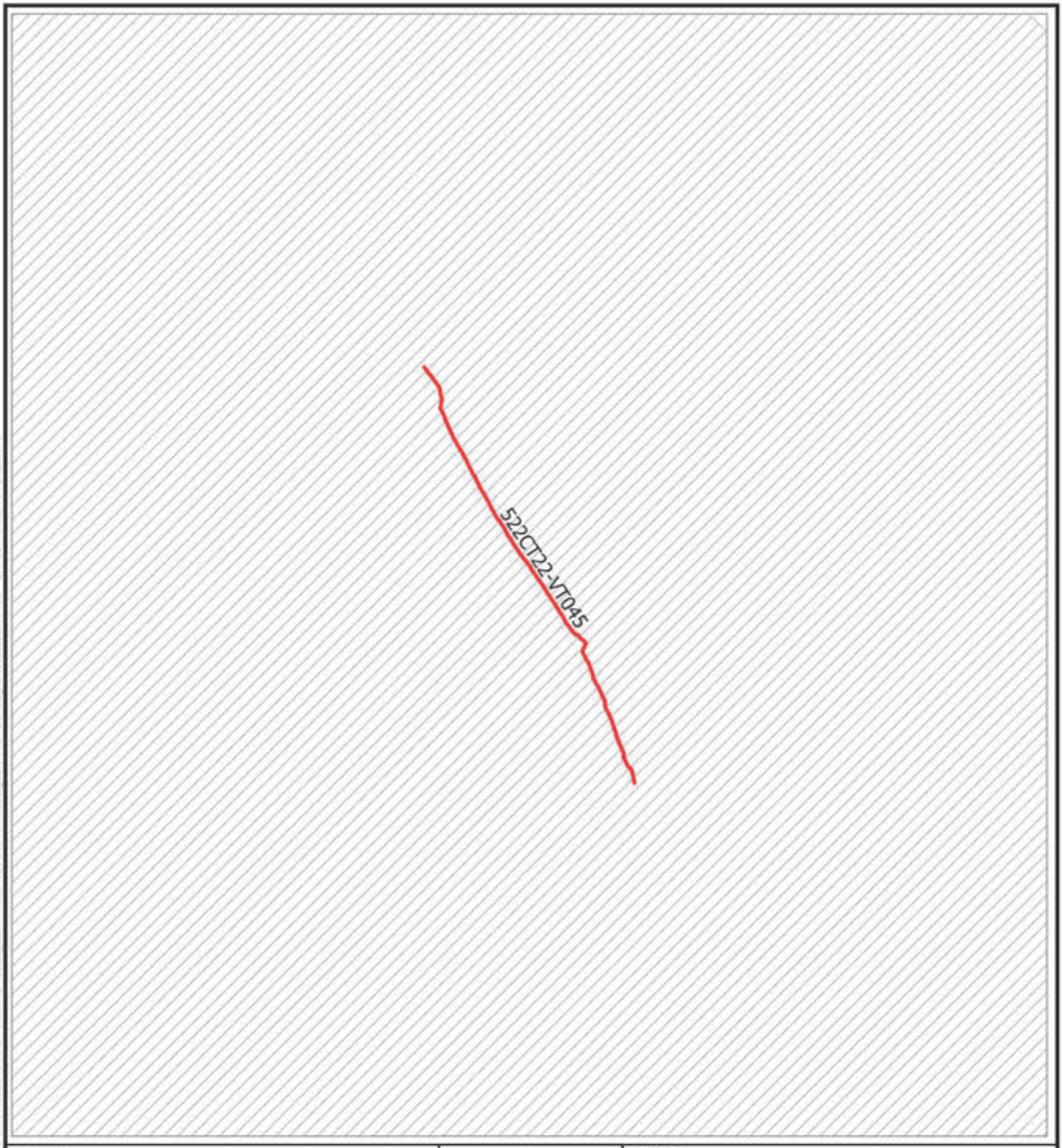
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT044

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

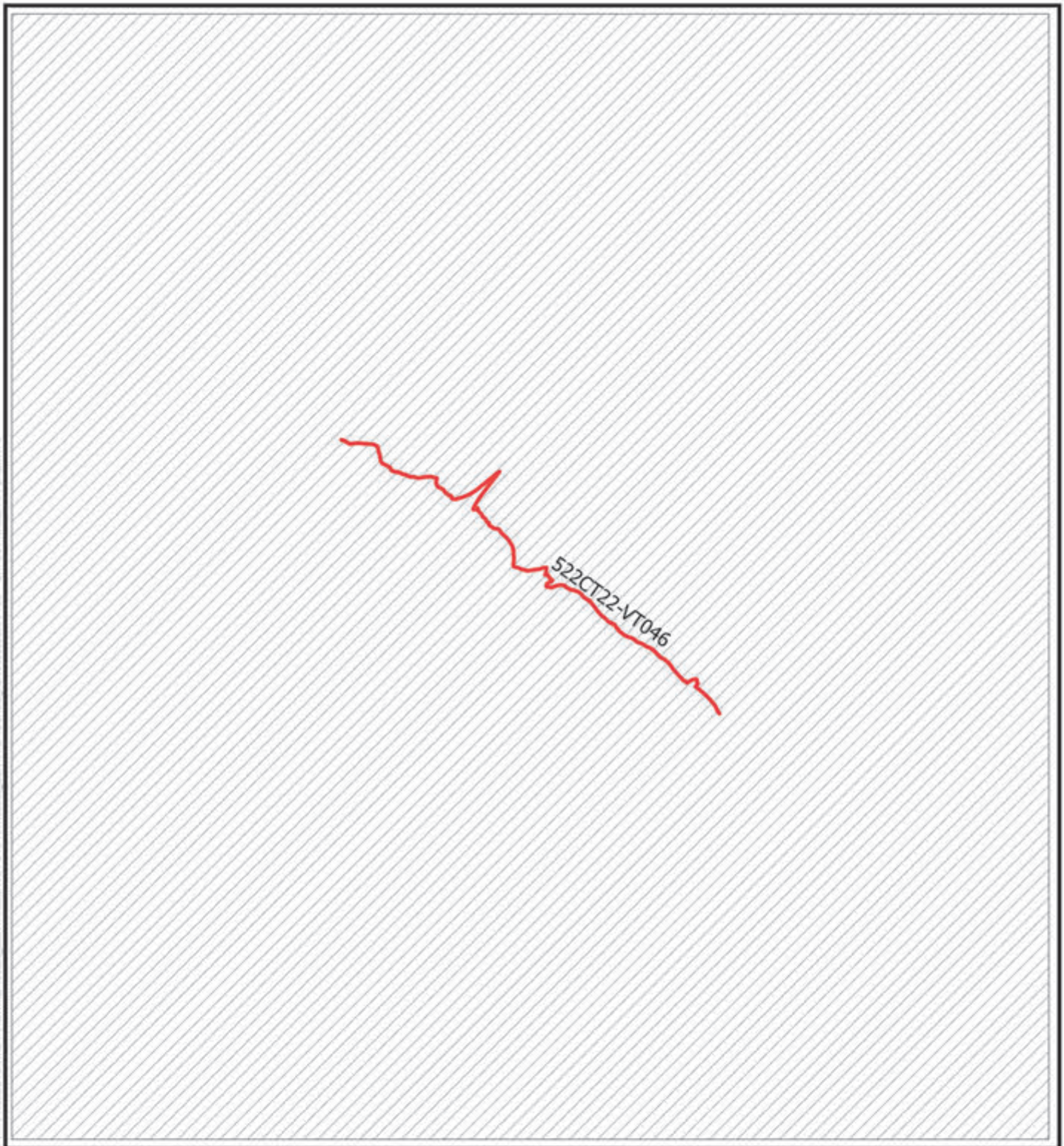
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT045

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMDA\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT046

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVEC\LAYER\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

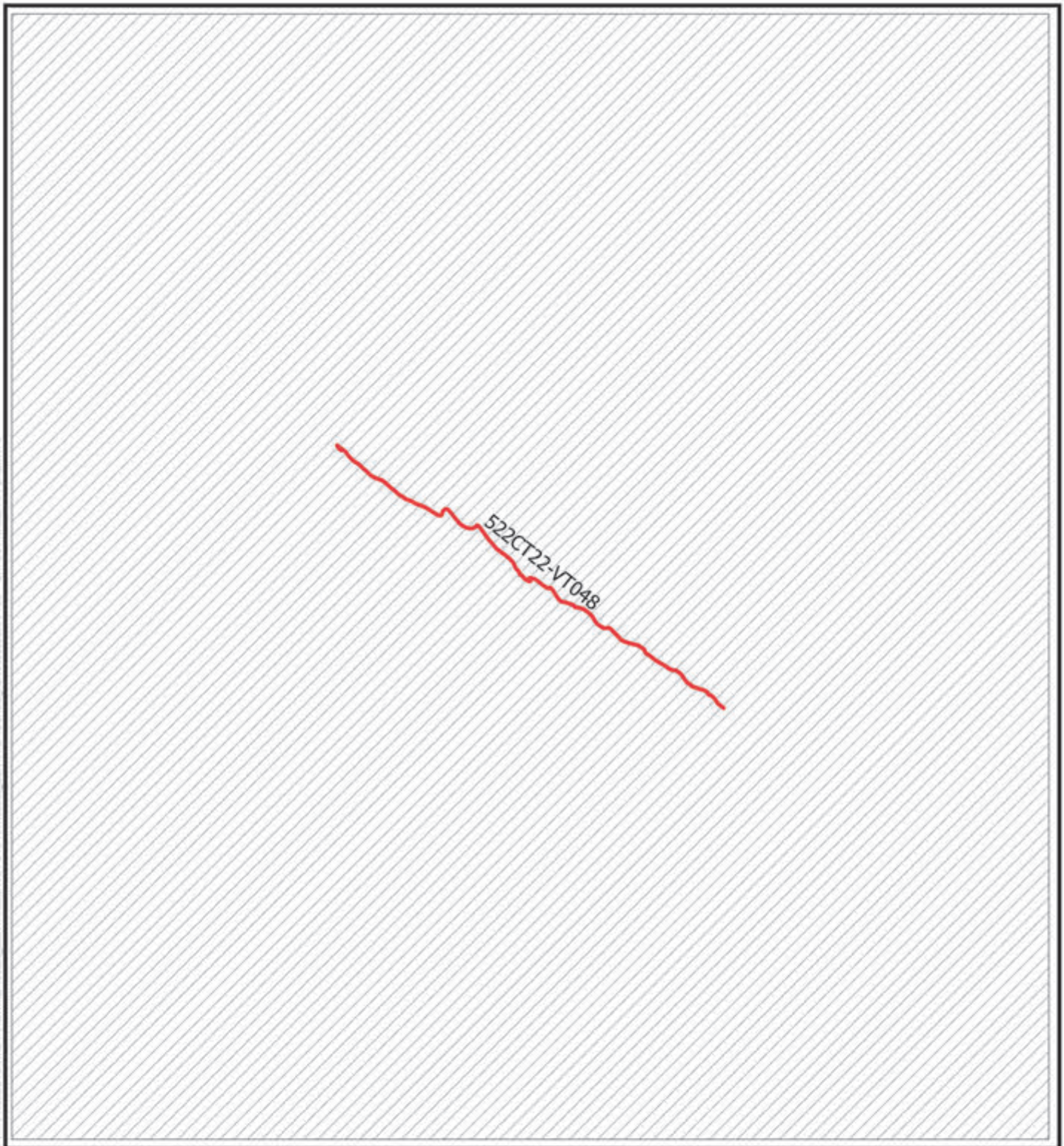
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT047	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

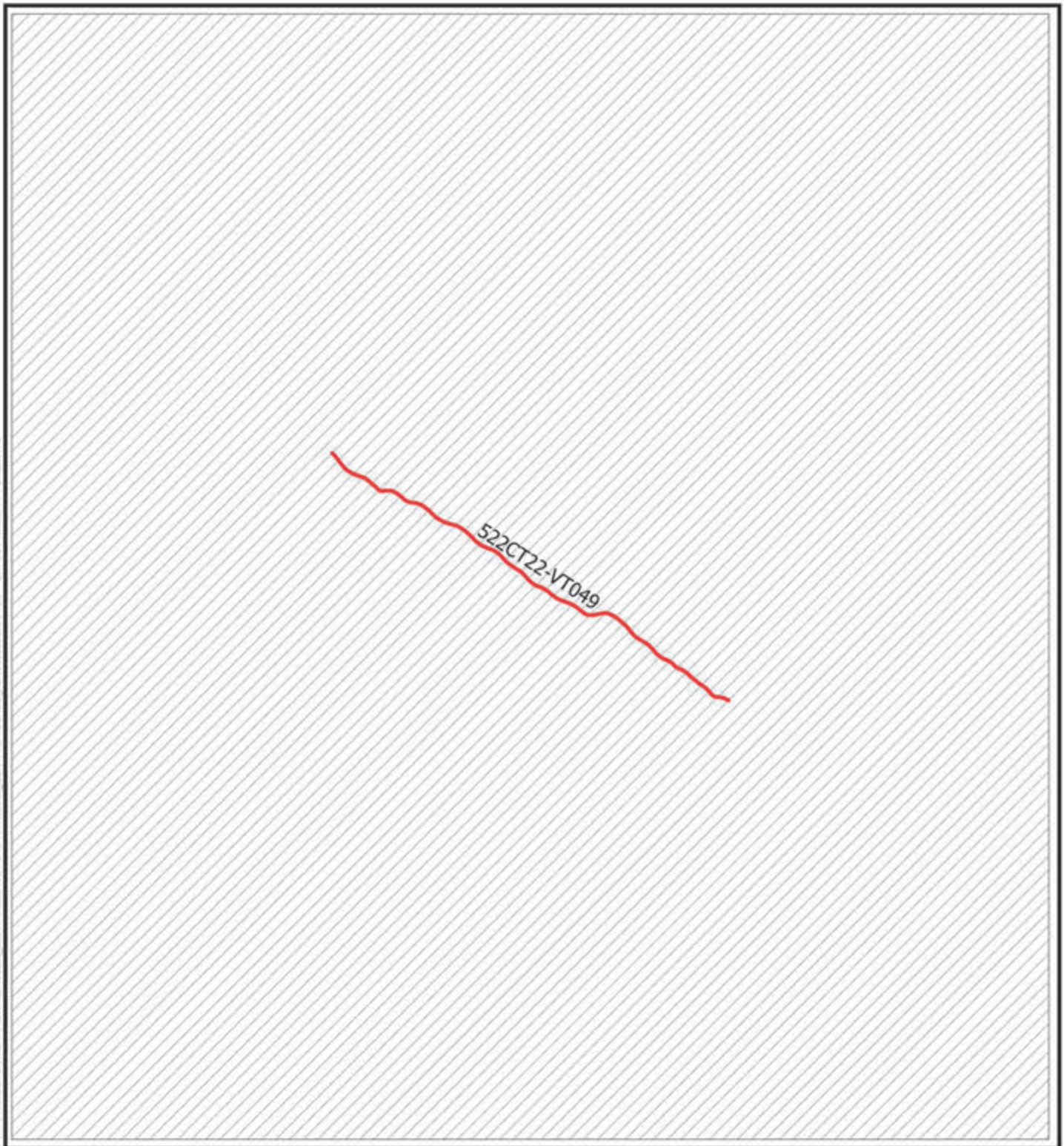
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT048

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

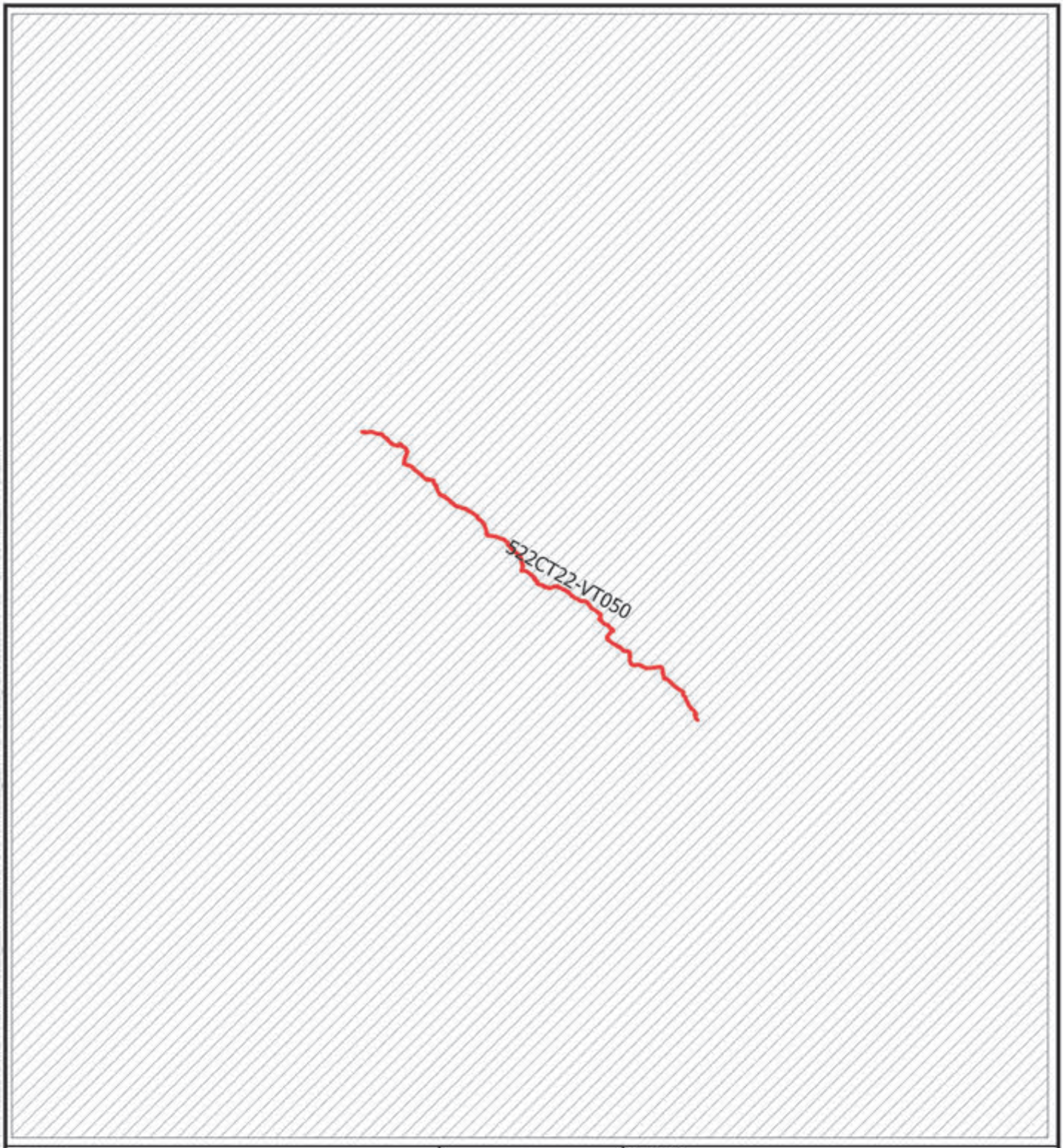
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT049

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

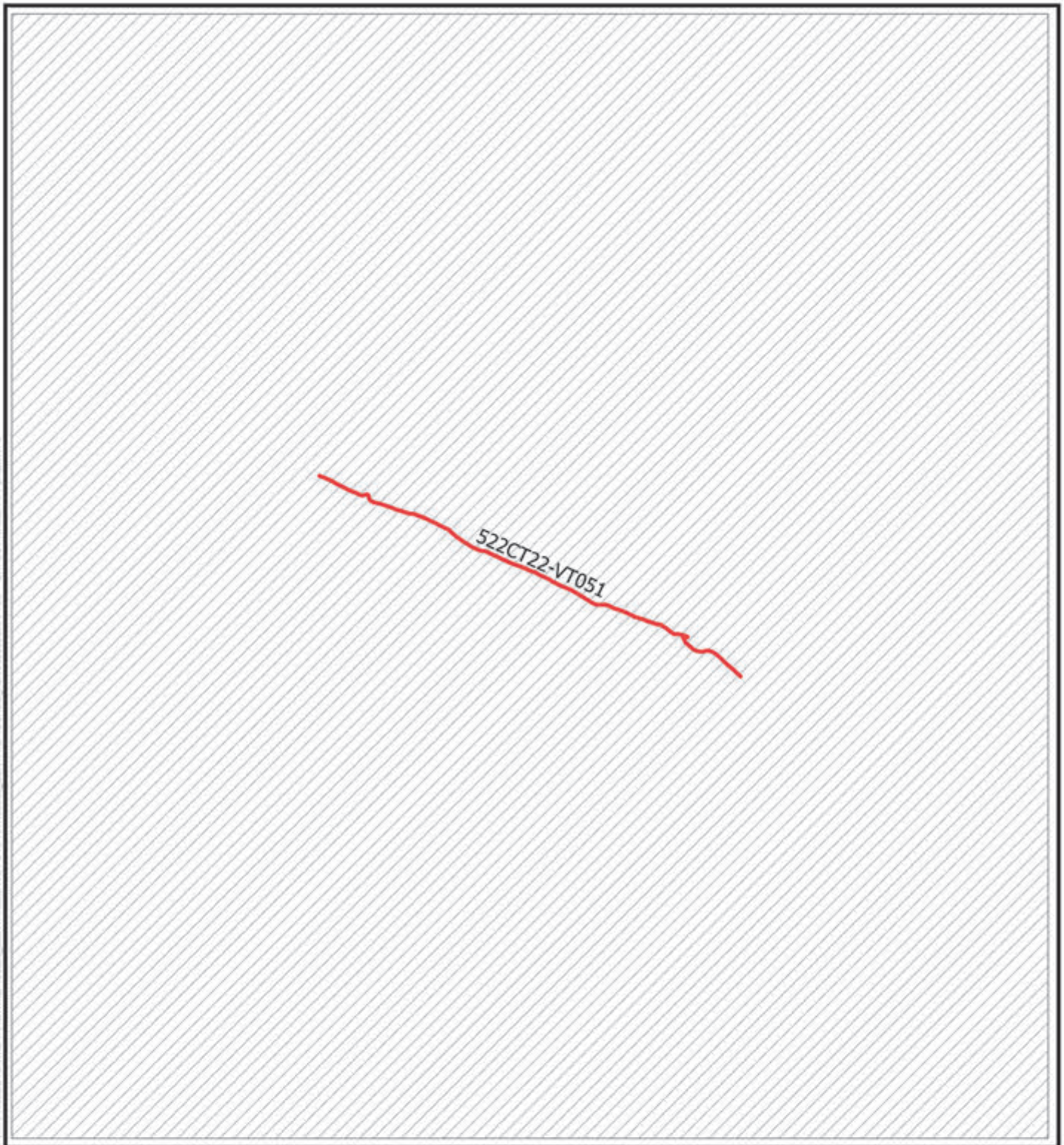
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT050

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

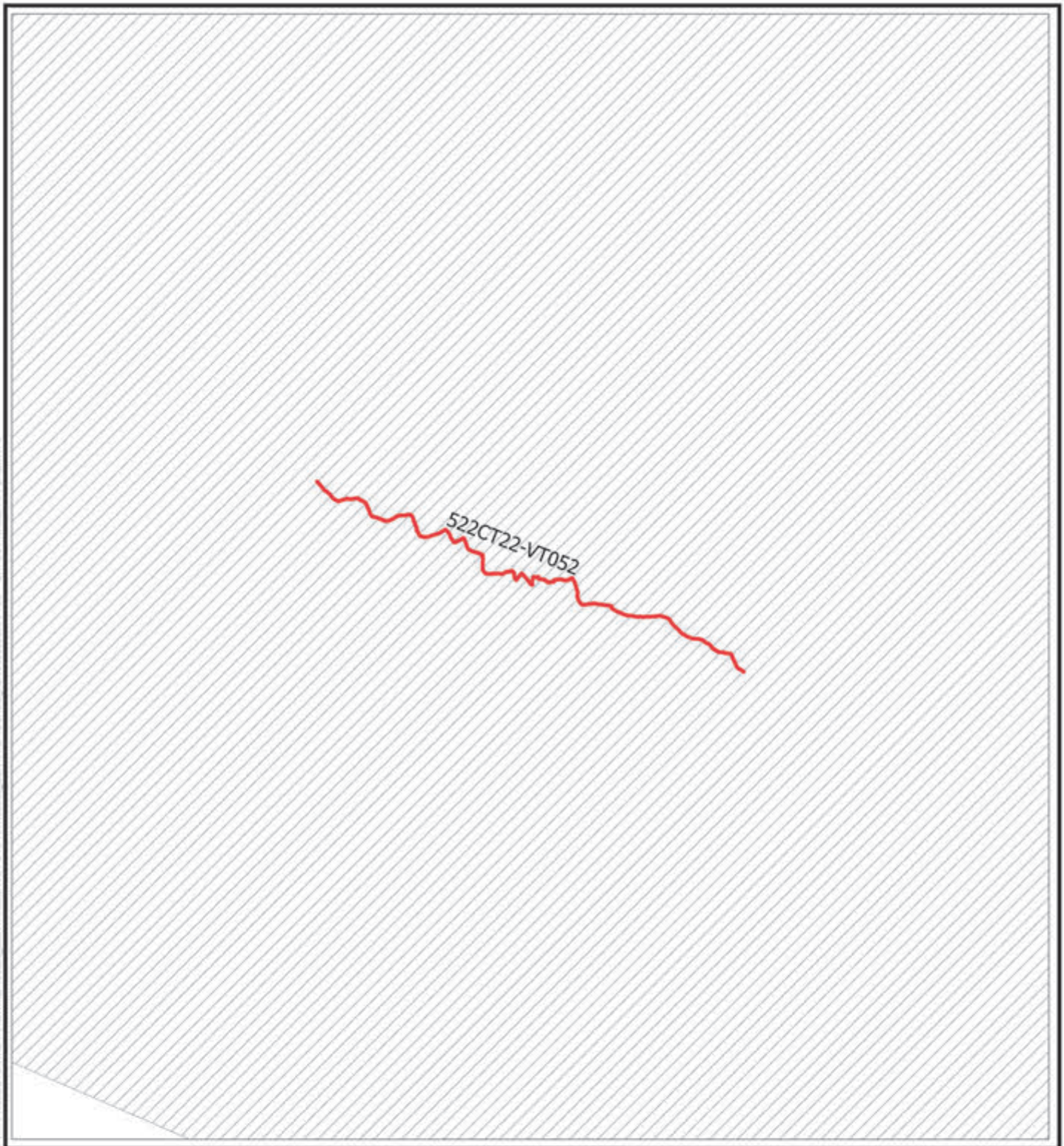
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT051

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

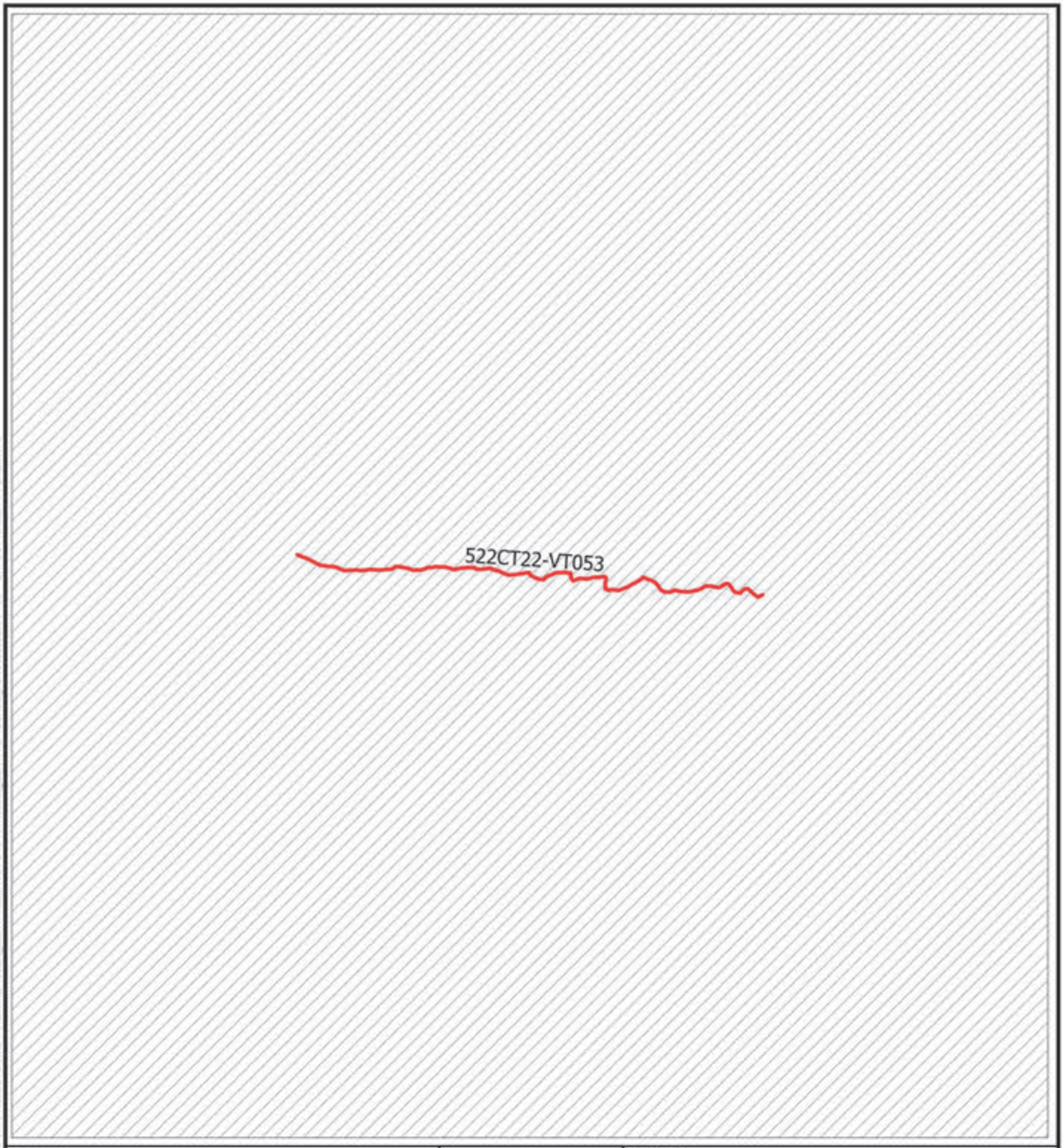
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT052

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT053

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX - LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT054

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

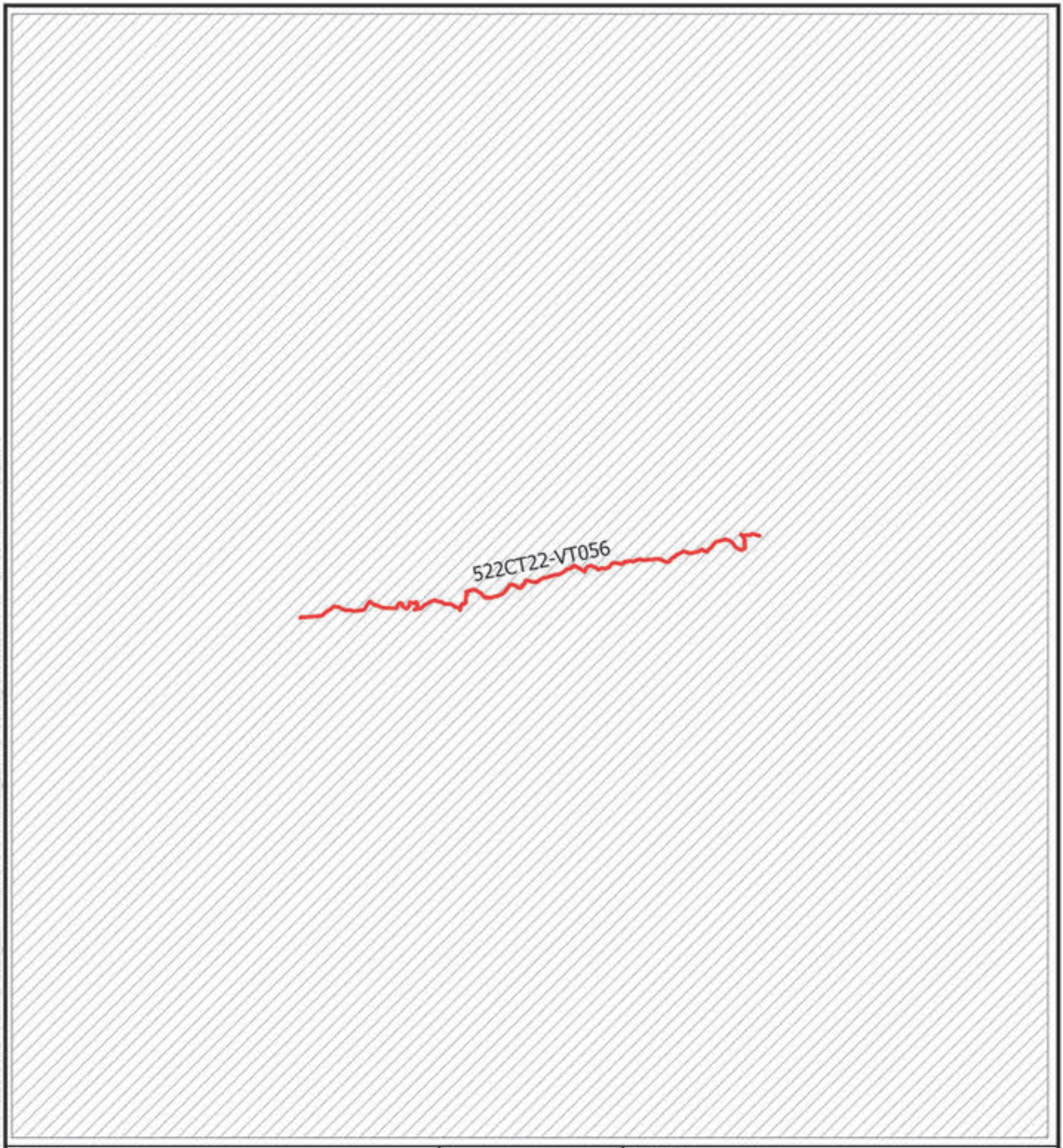
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT055

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

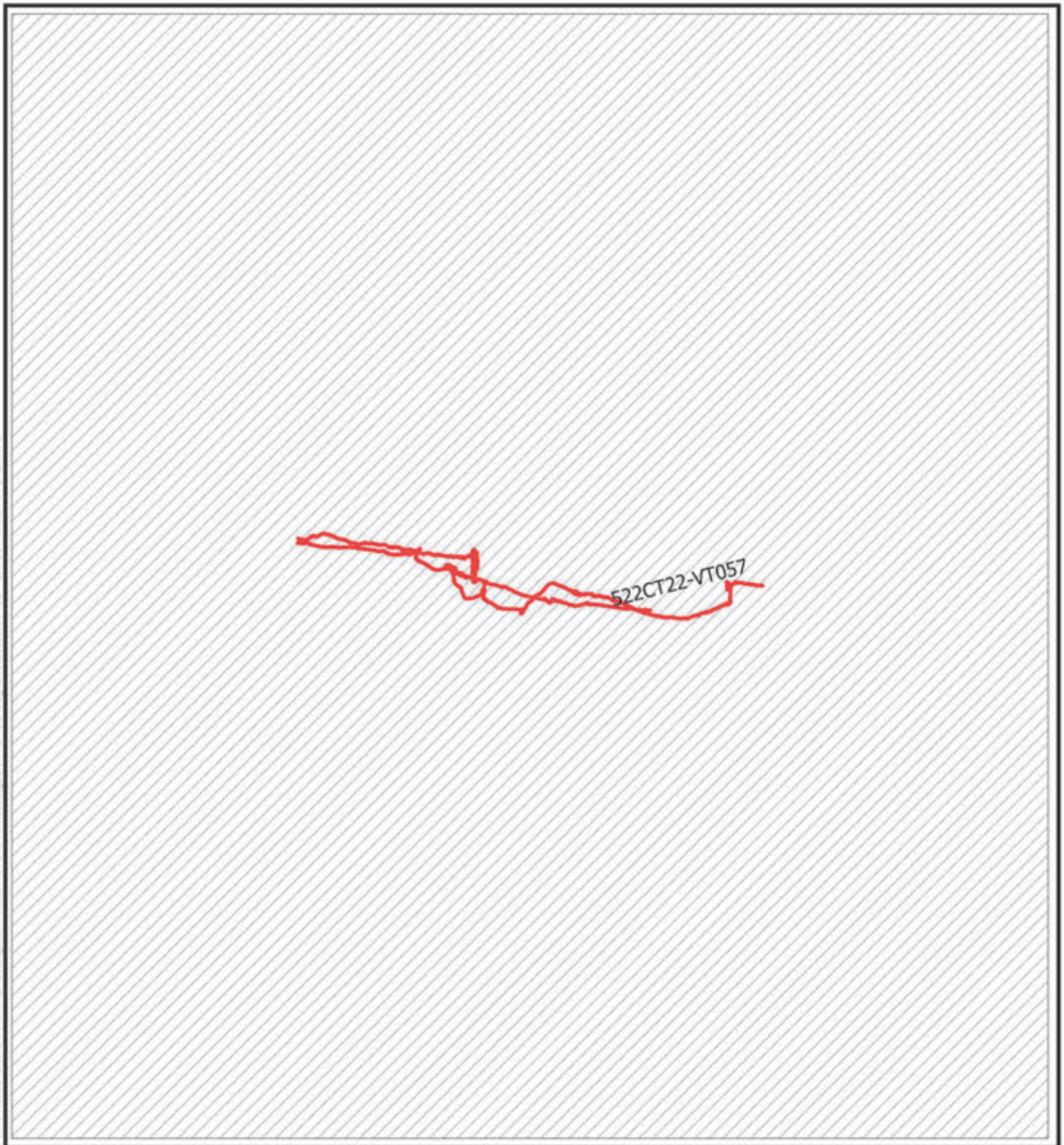
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT056

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

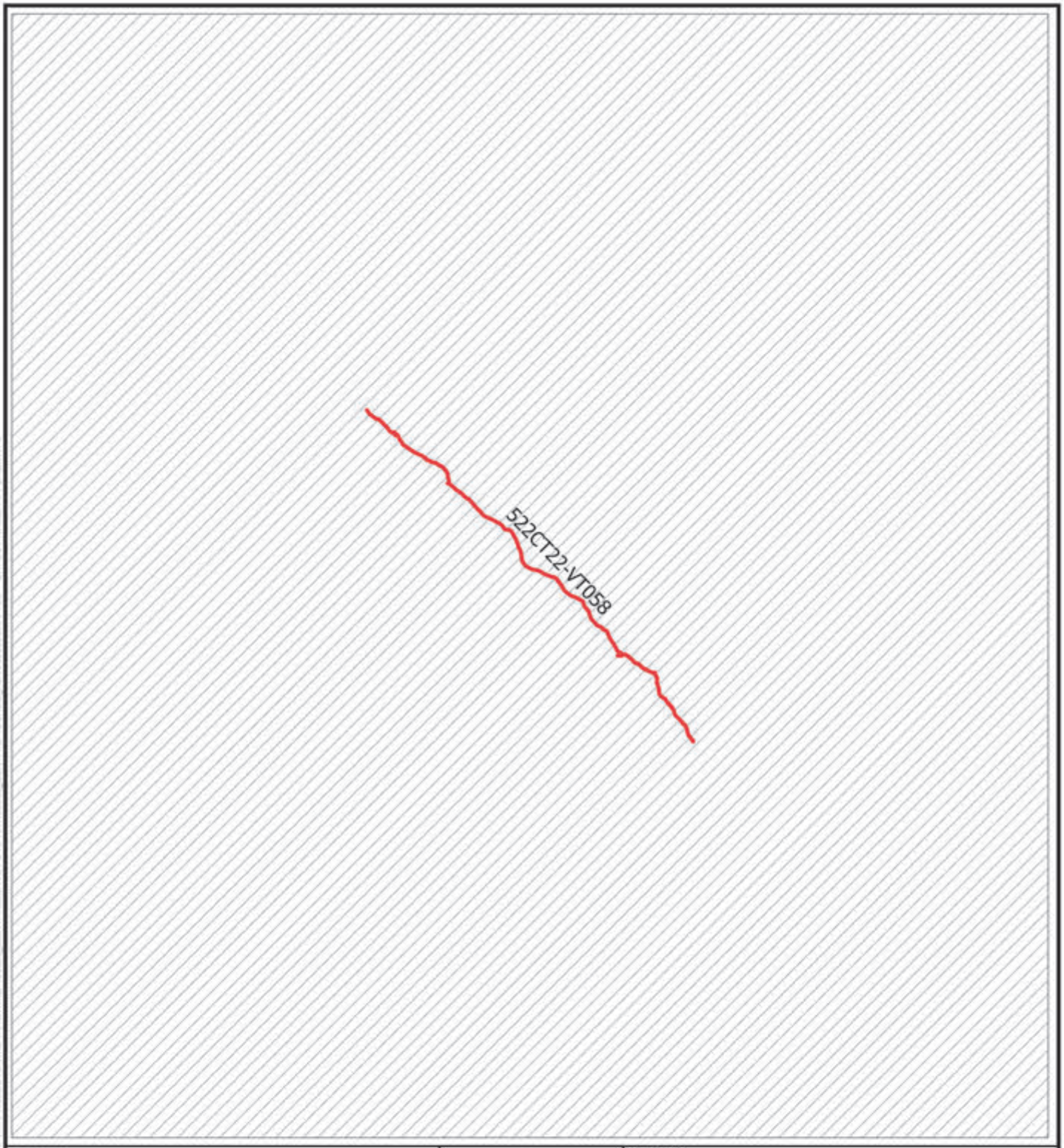
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT057

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

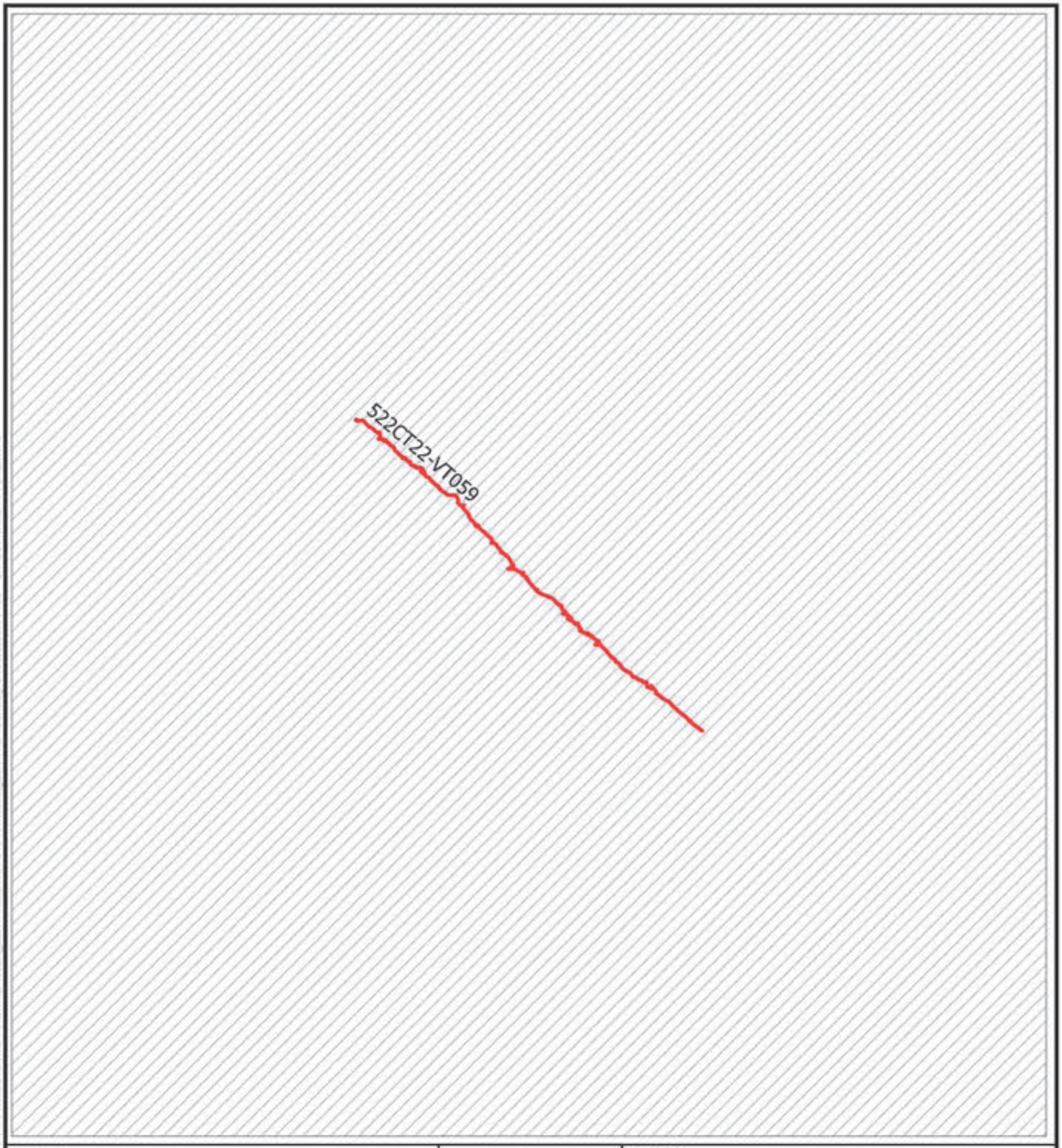
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT058

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

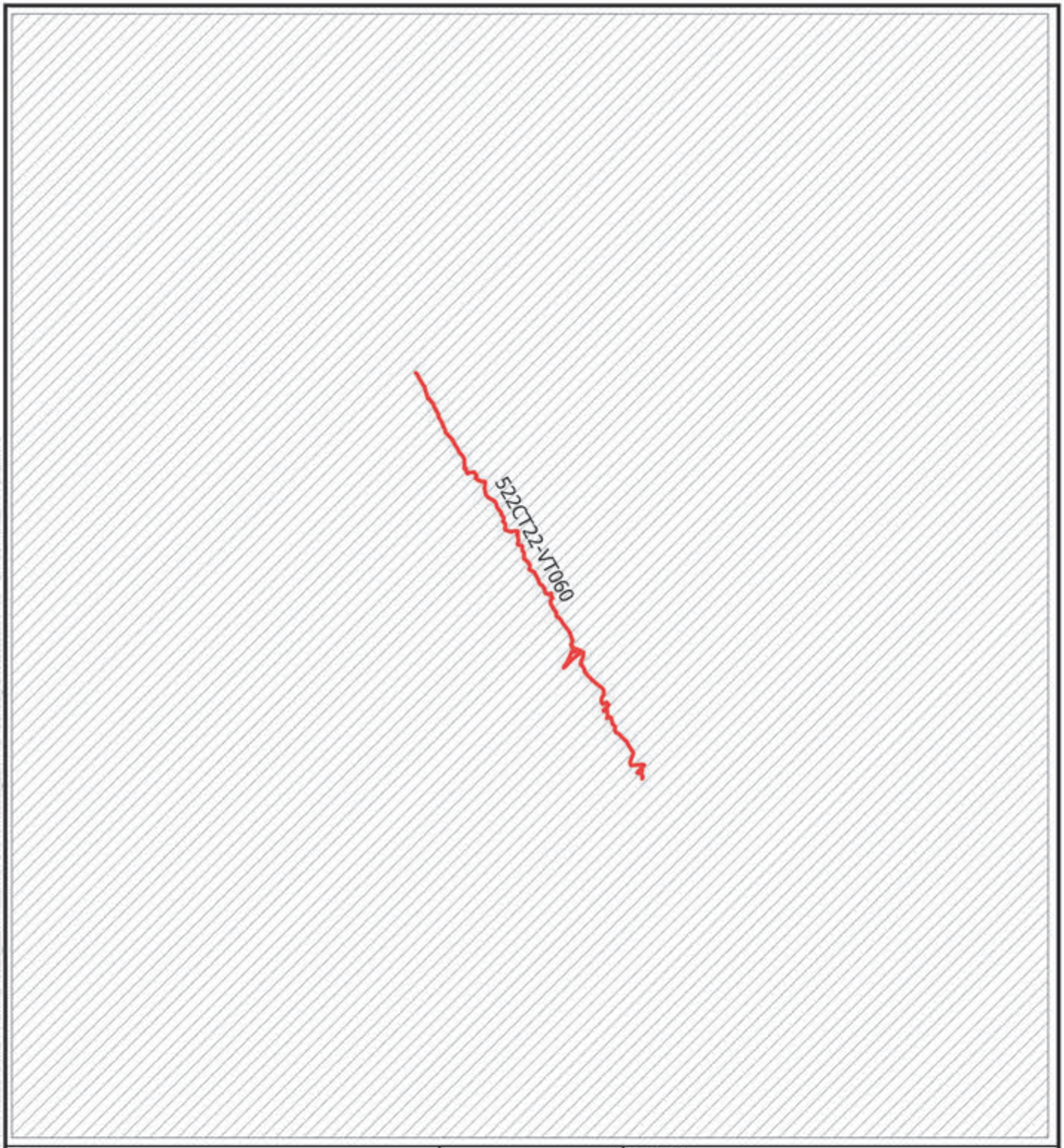
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT059

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

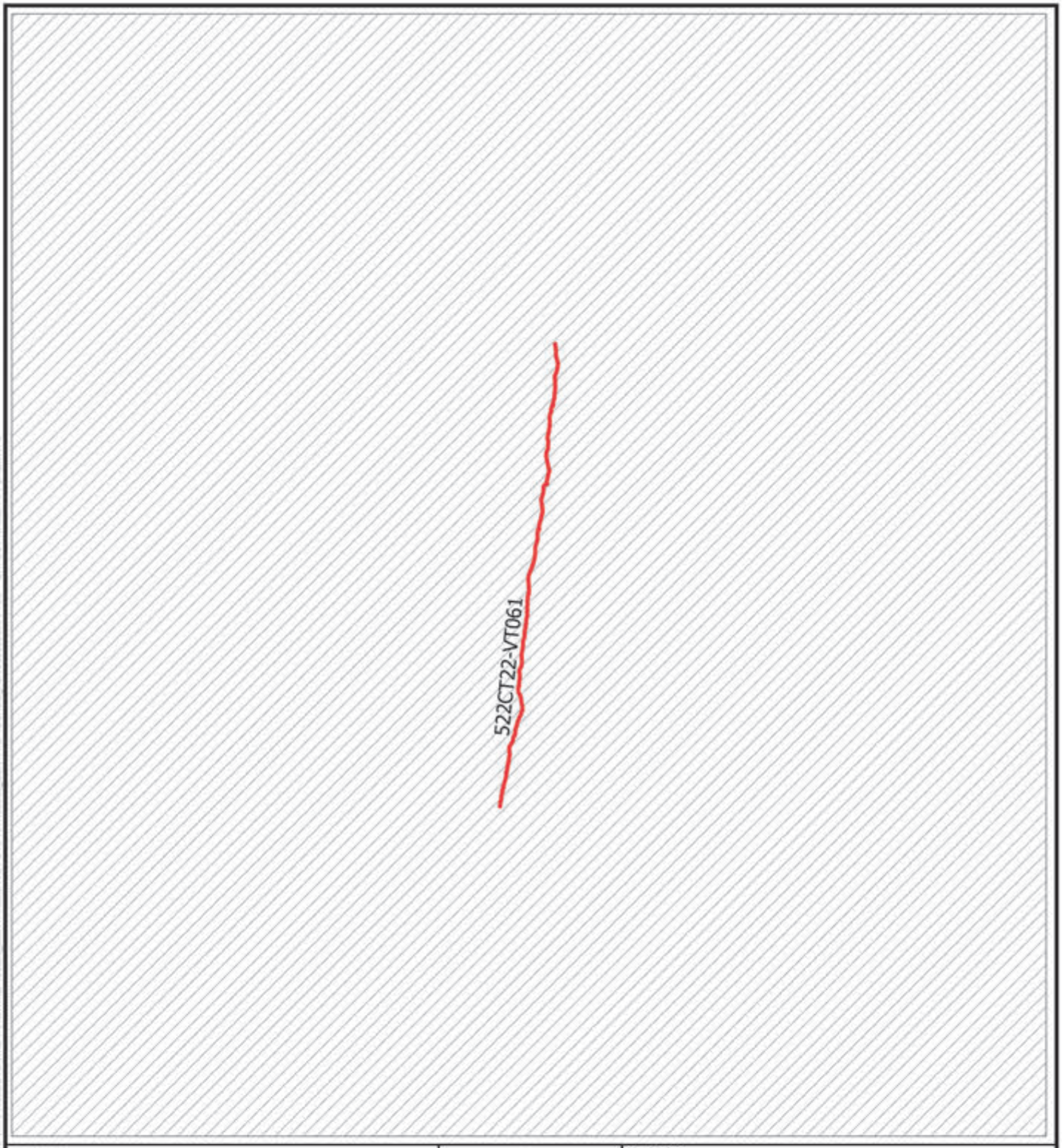
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT060

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

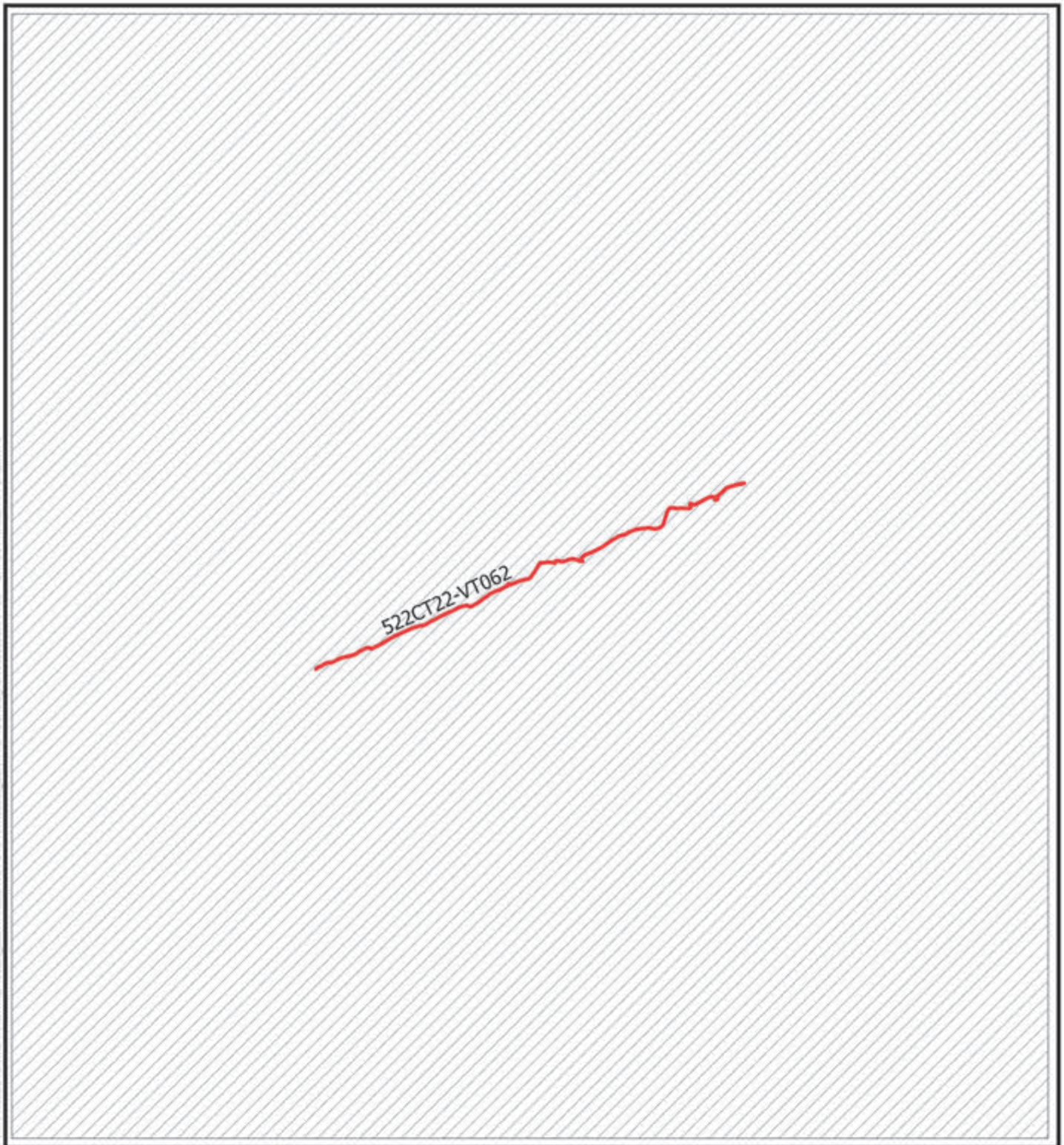
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT061

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

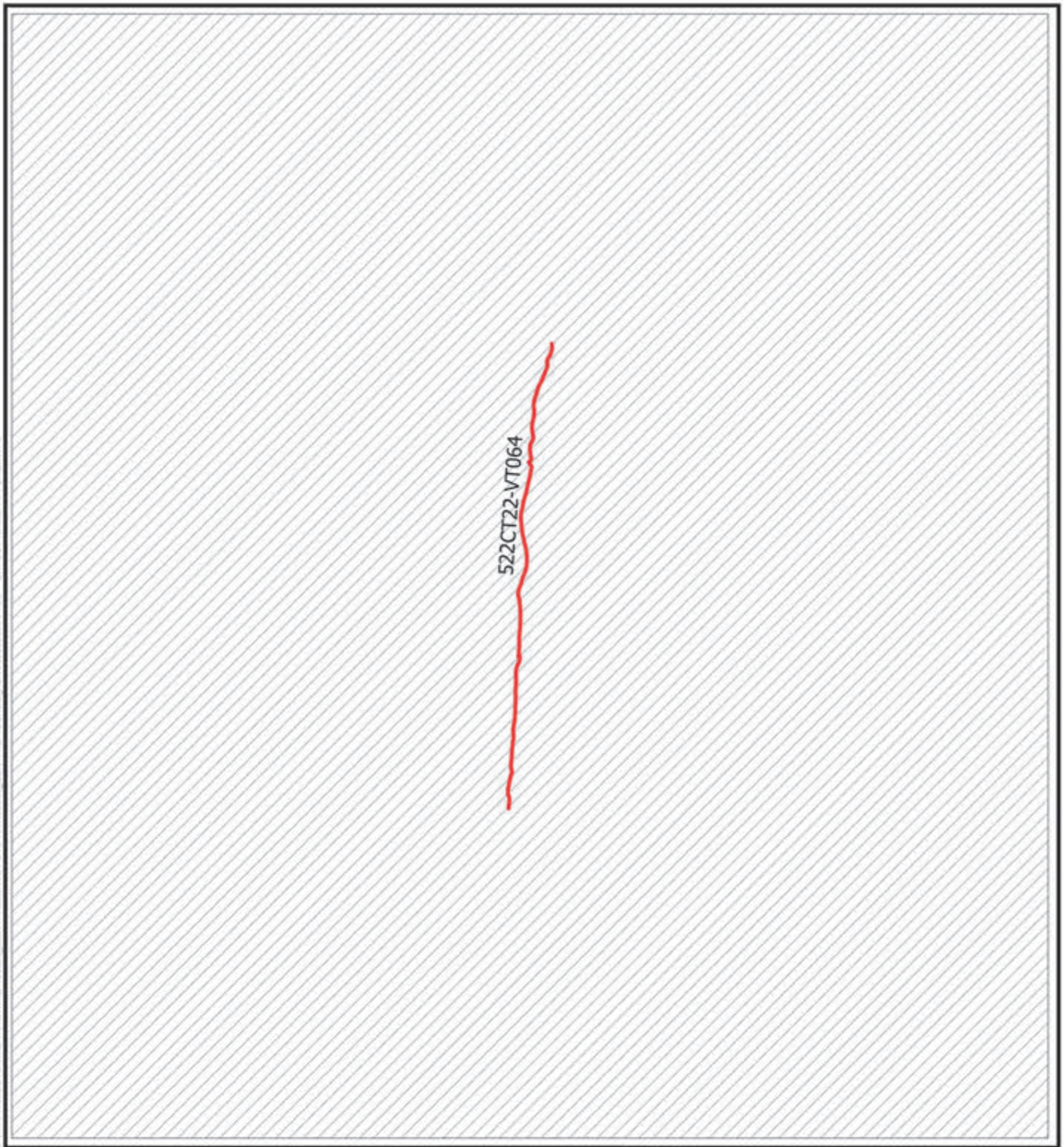
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT062

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

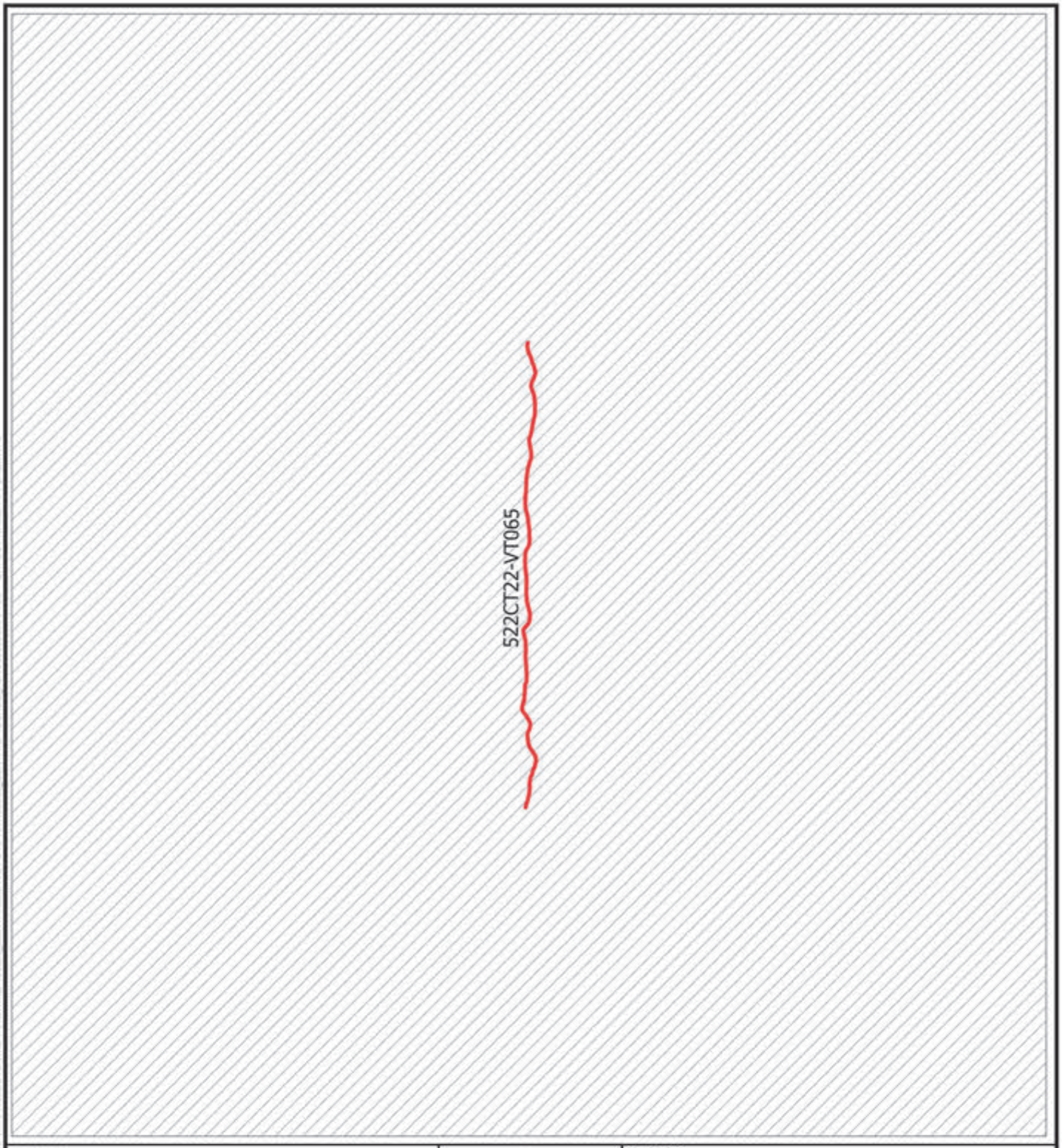
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT064

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

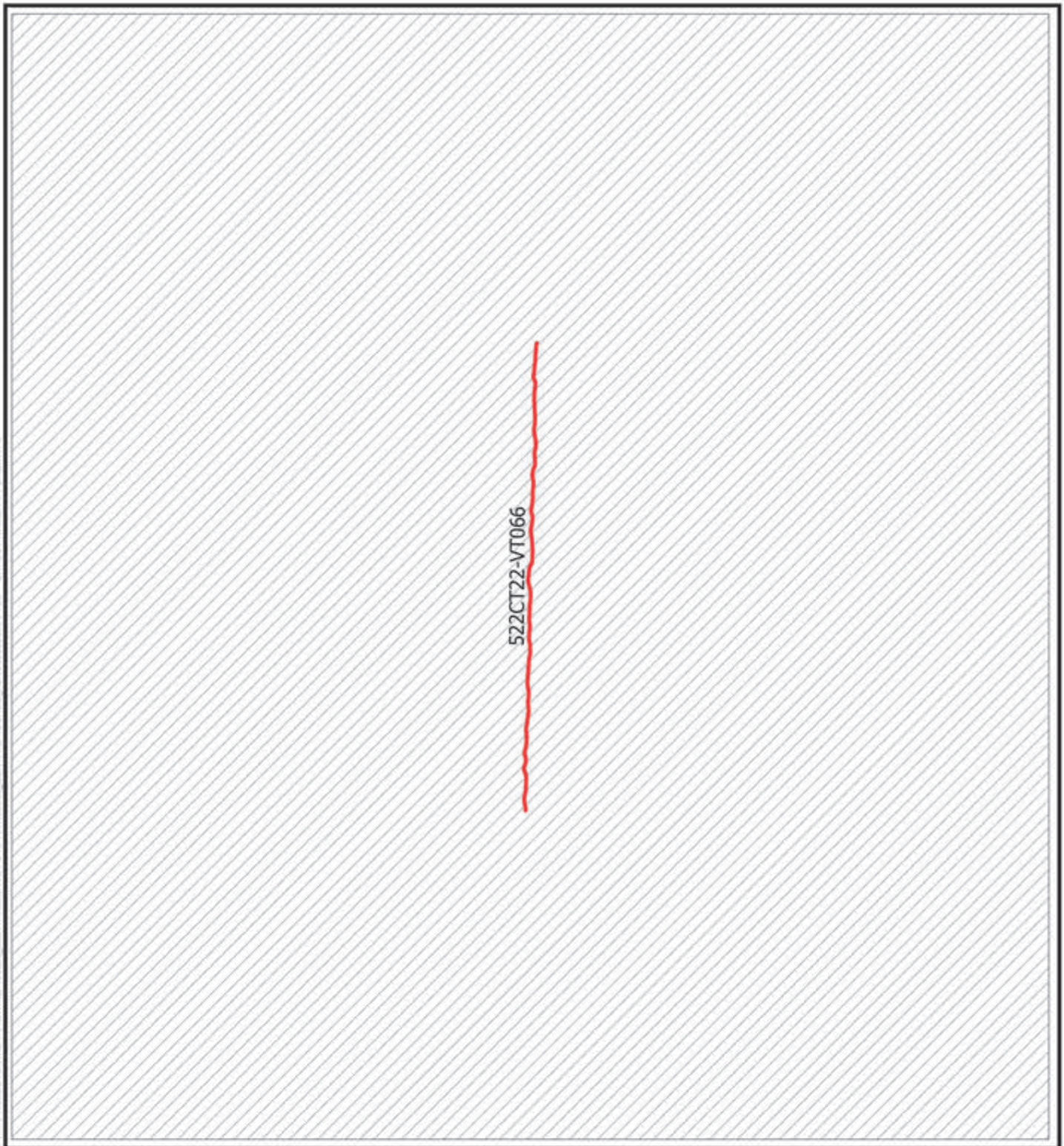
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT065

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

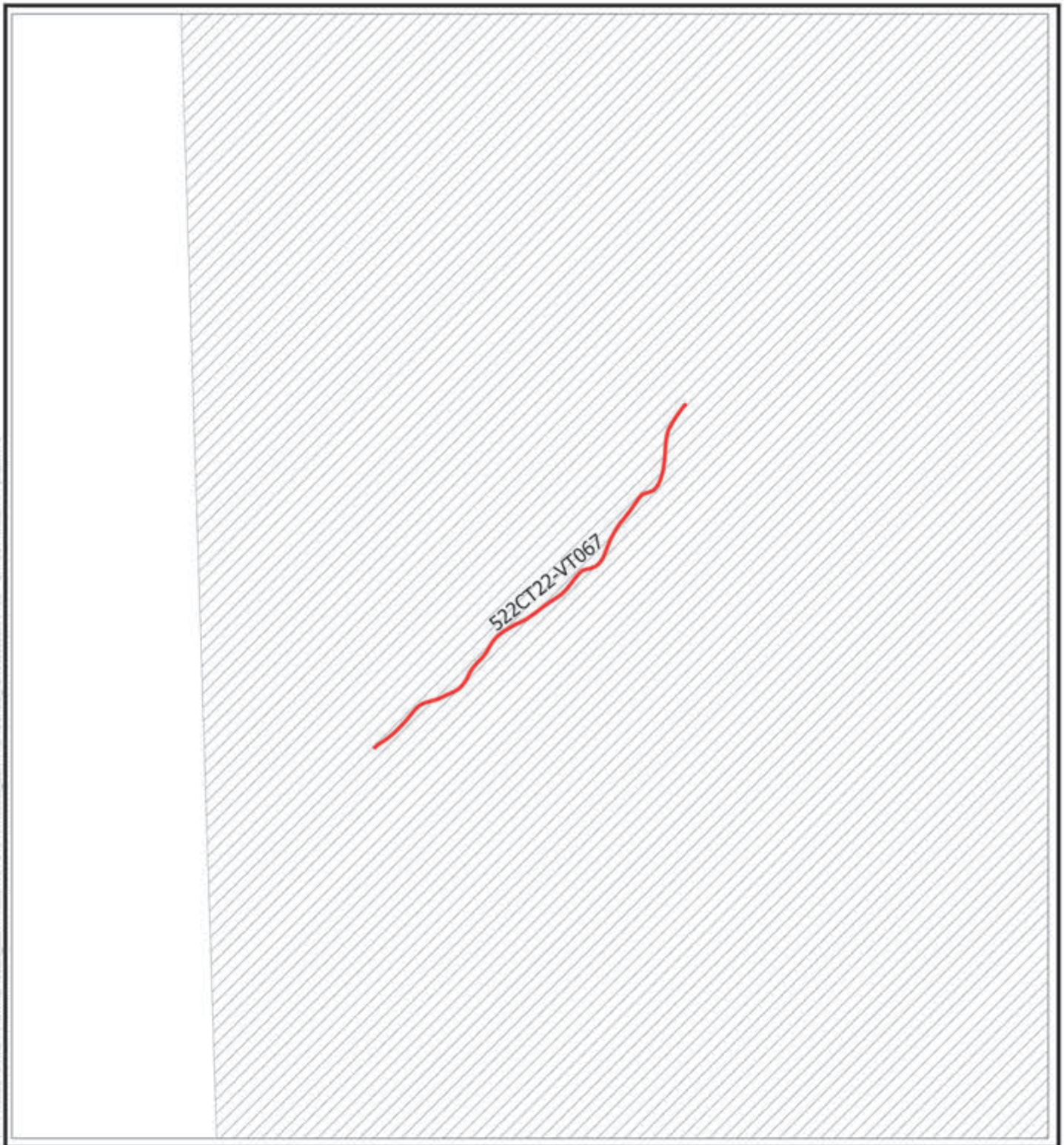
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT066

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

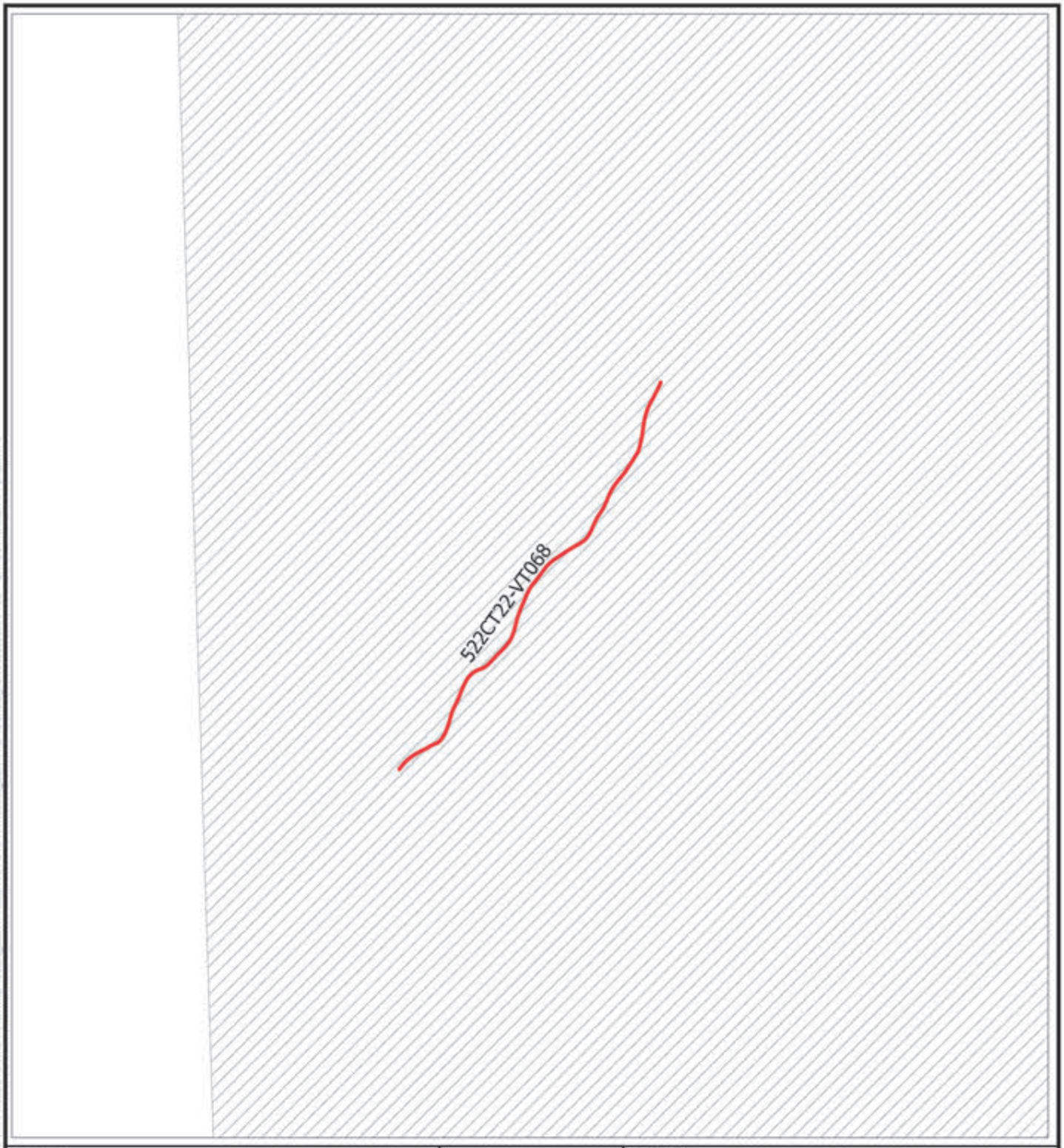
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT067

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

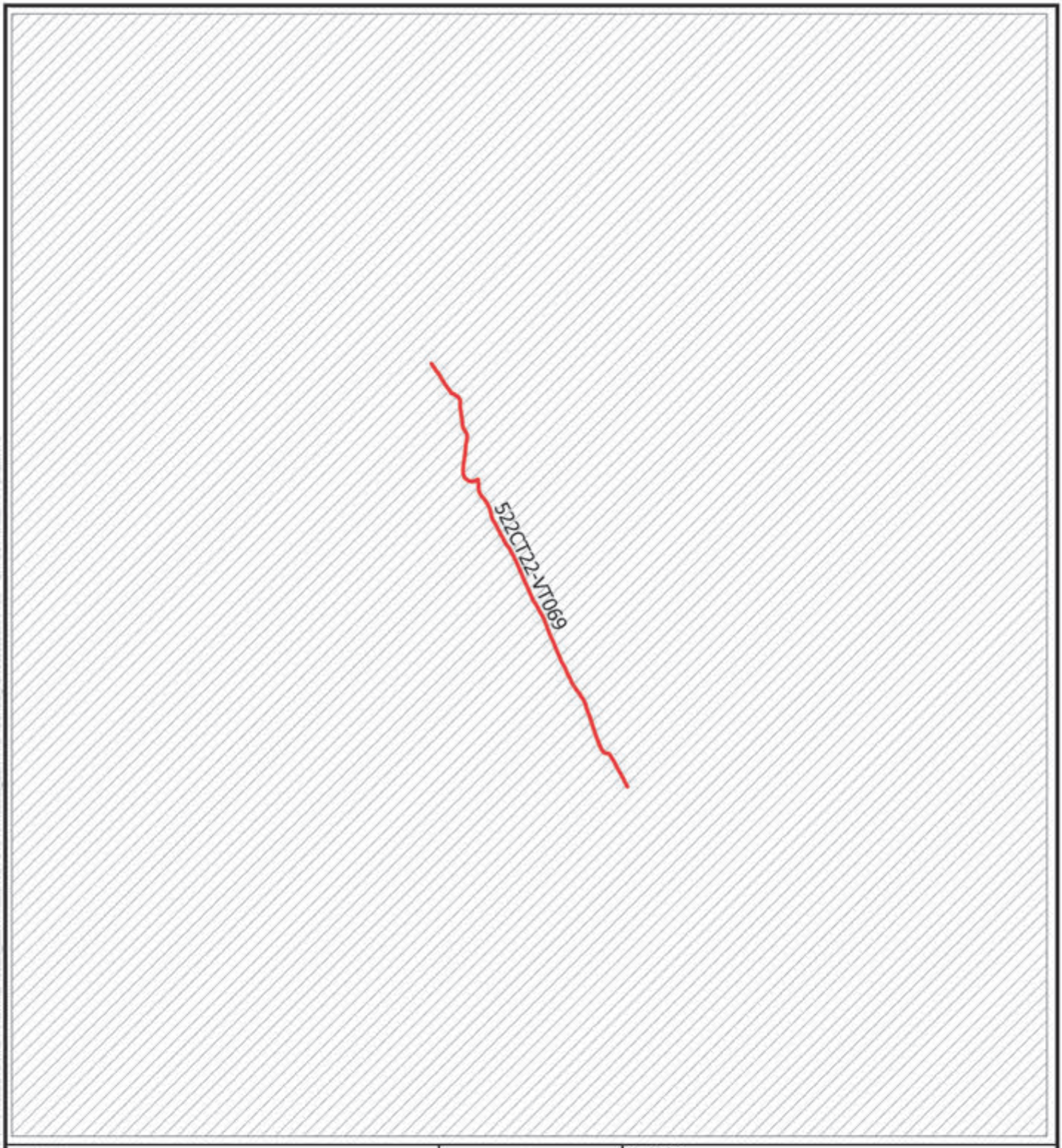
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT068

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

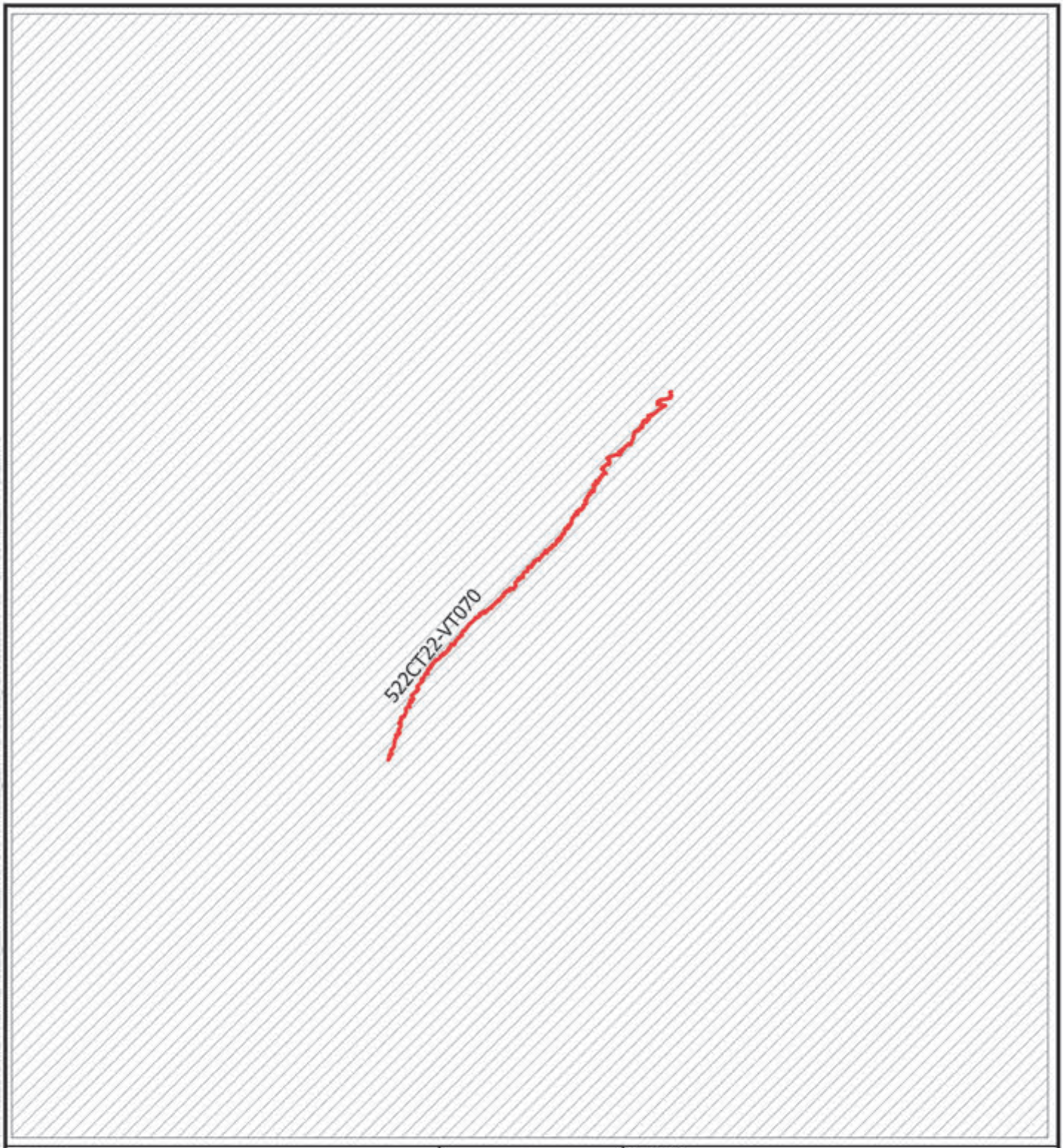
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT069

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

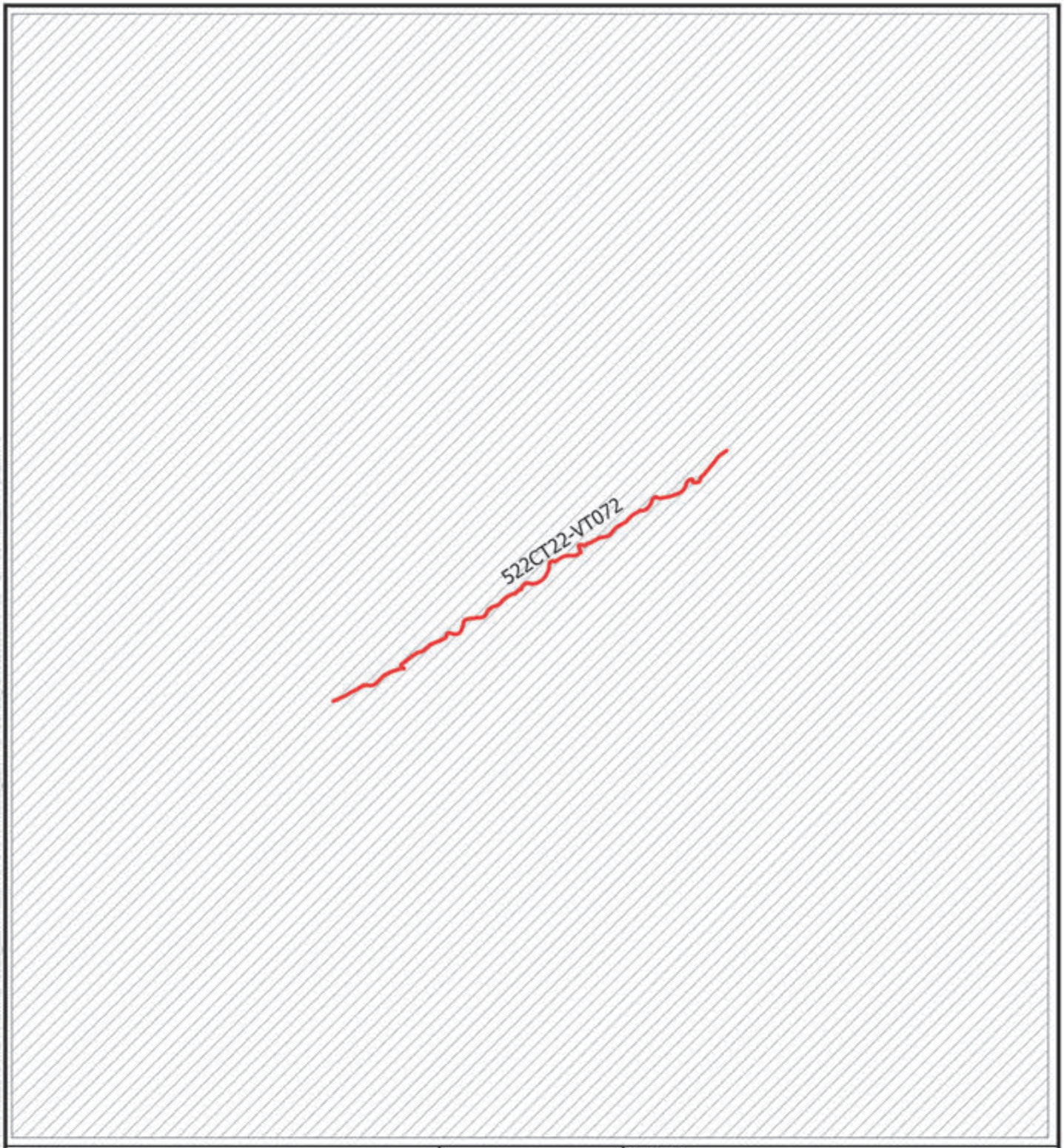
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT070

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

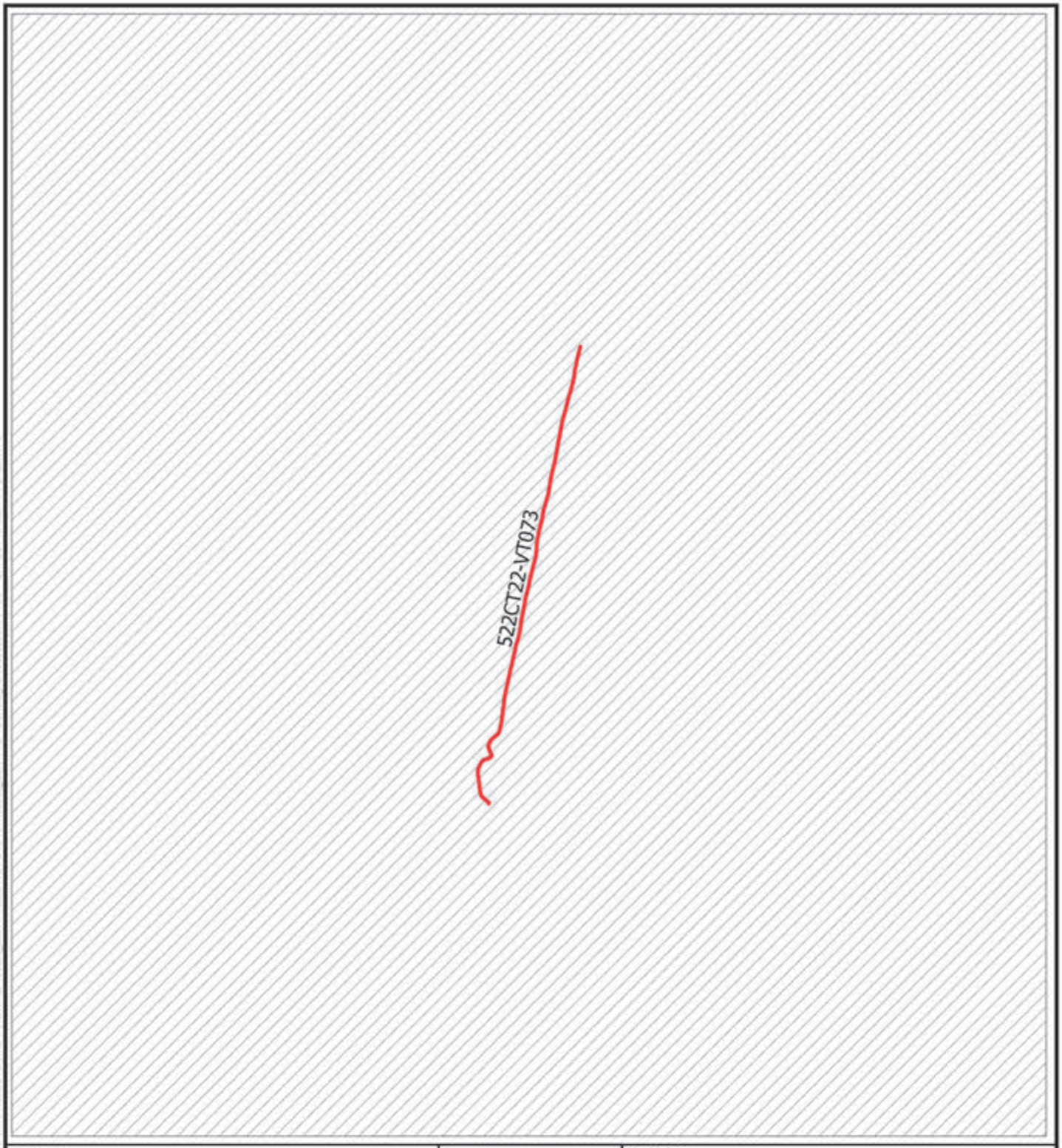
Appendix A-3
Transect: 522CT22-VT072

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

"SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT073

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

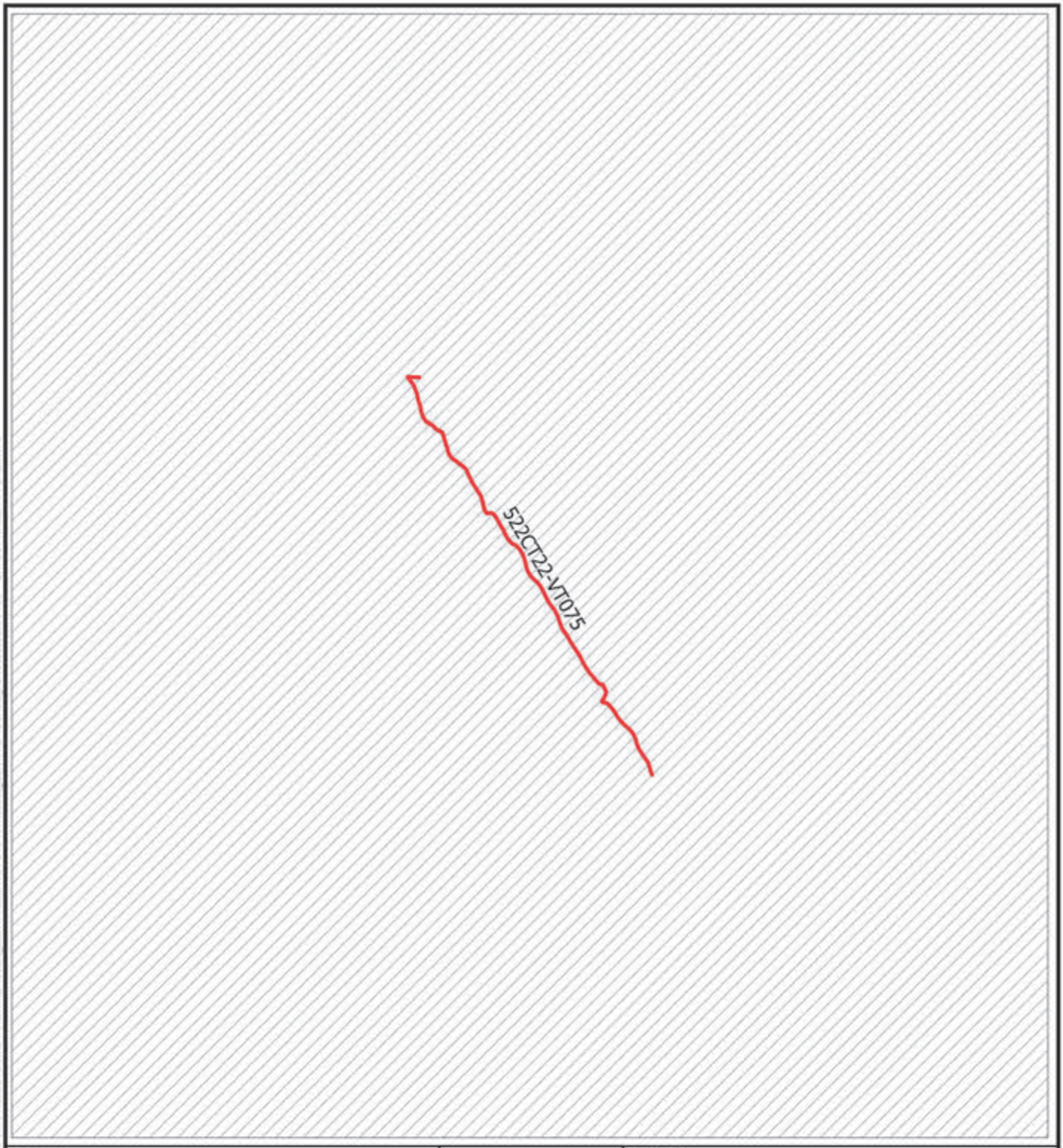
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT074

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

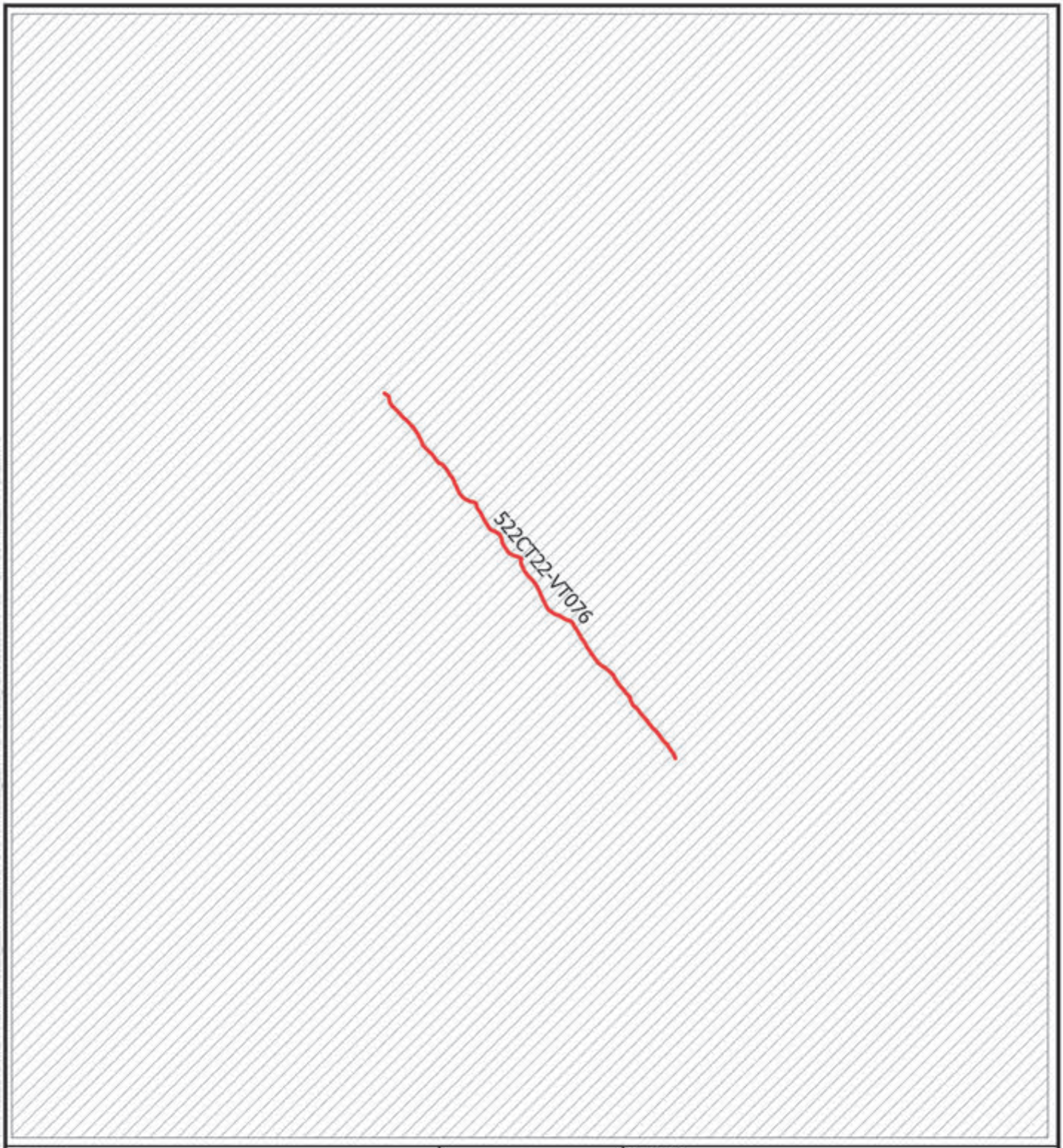
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT075

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUTS\BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

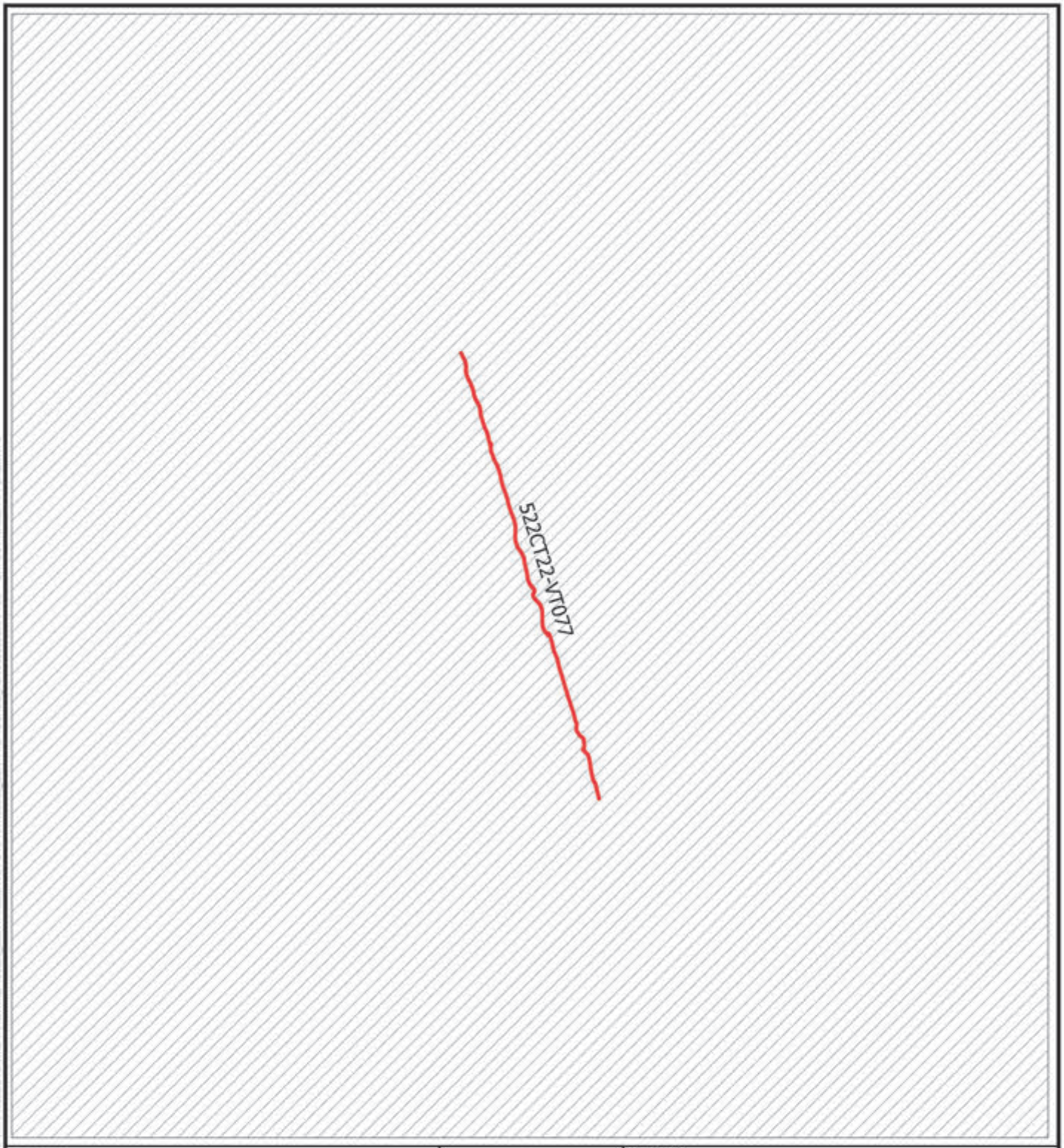
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT076

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT077

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

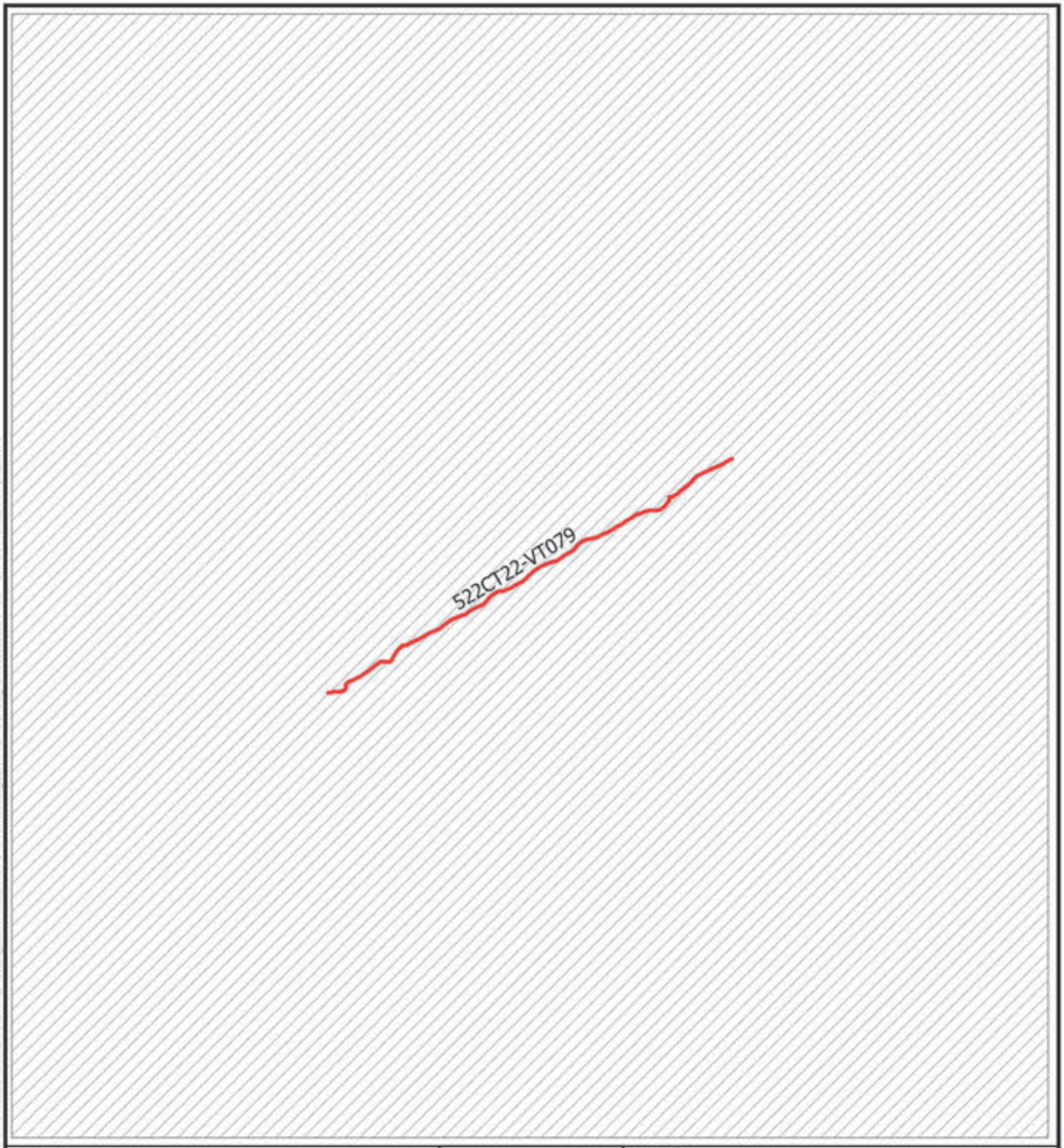
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-3**	
APPROVED BY:	M. LADEWIG	Transect: 522CT22-VT078	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\SUNRISEWIND\483856_BENTHICSURVEY\LAYOUTS\ARCMAP\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

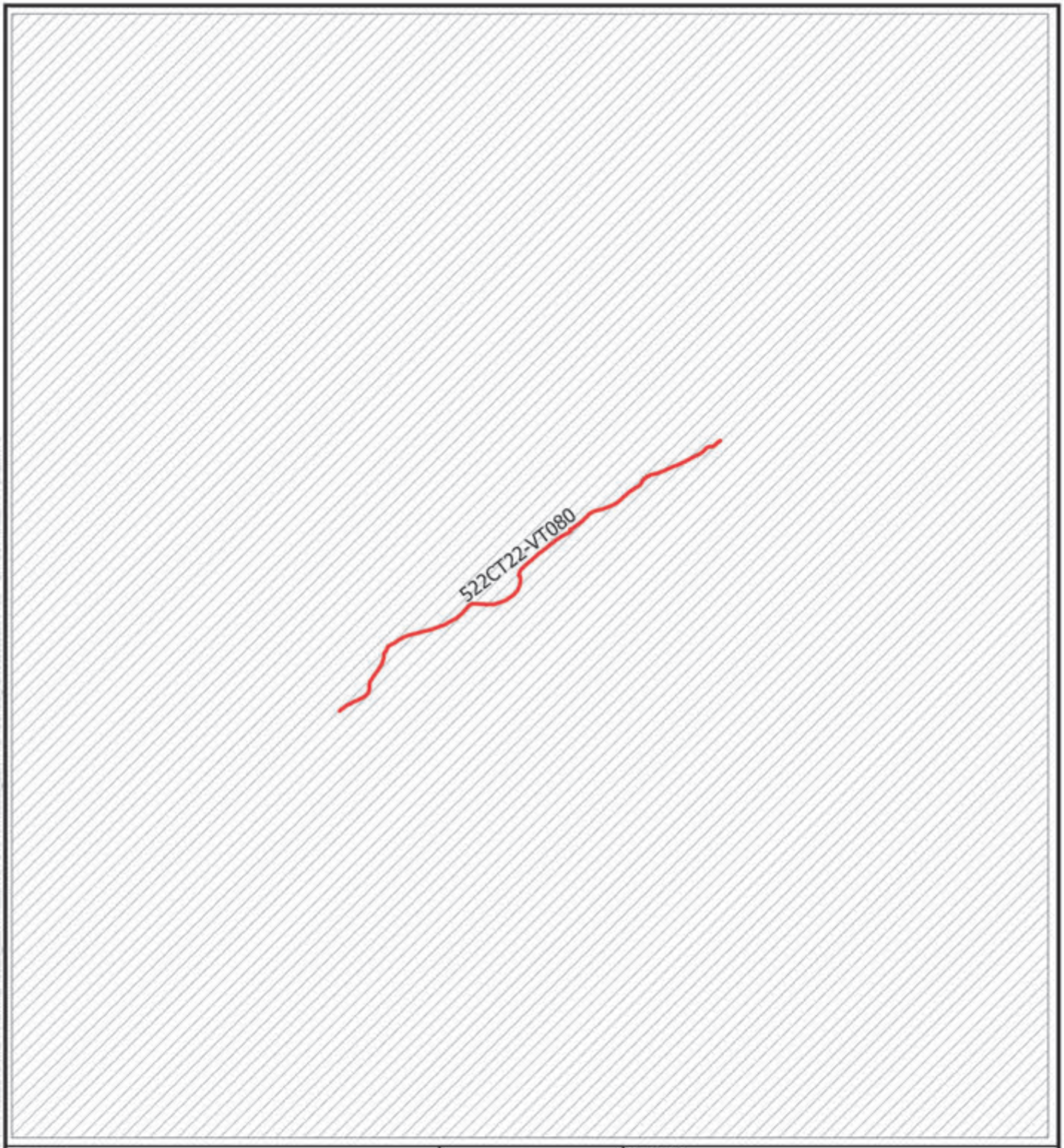
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT079	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

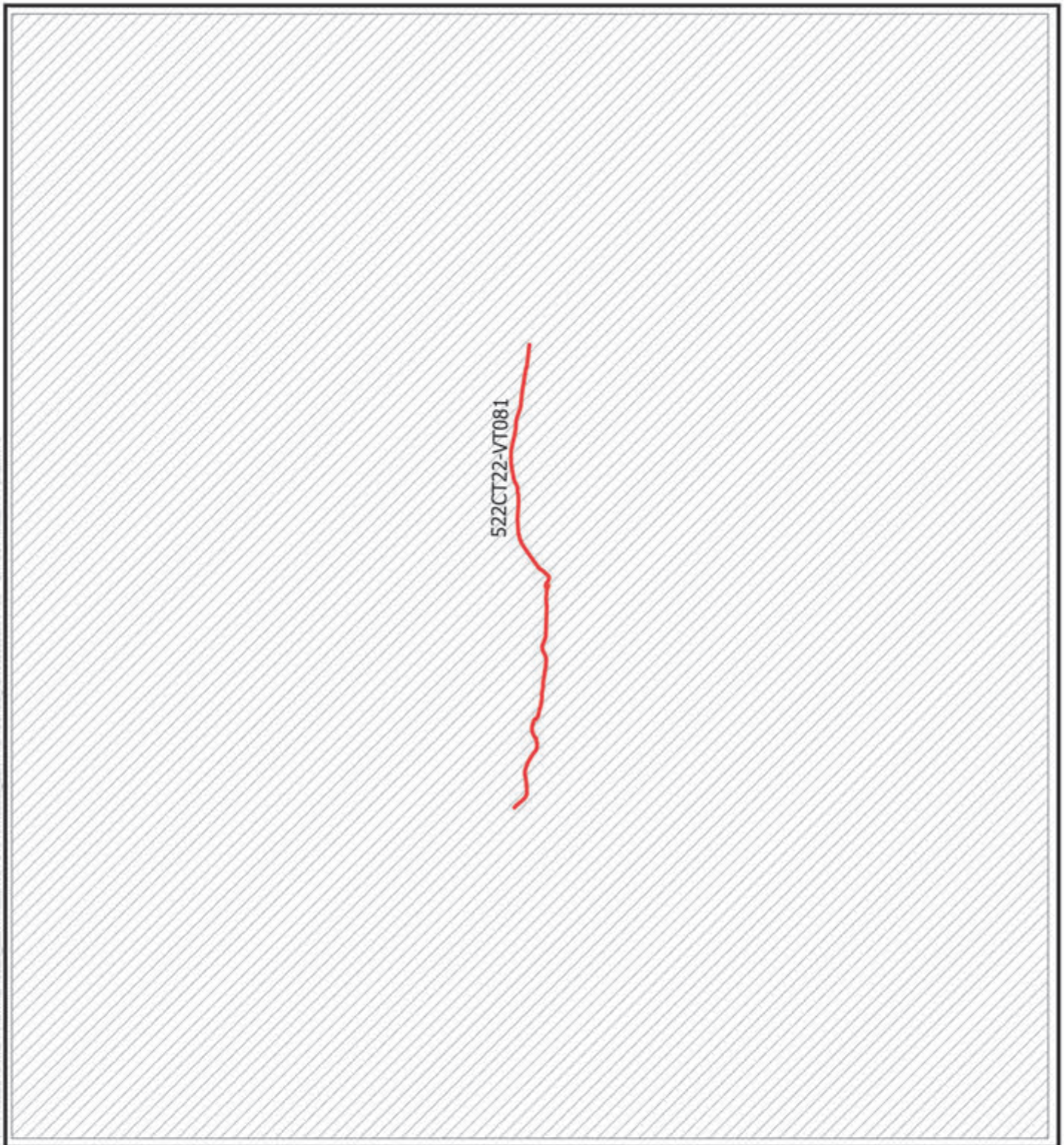
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT080

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

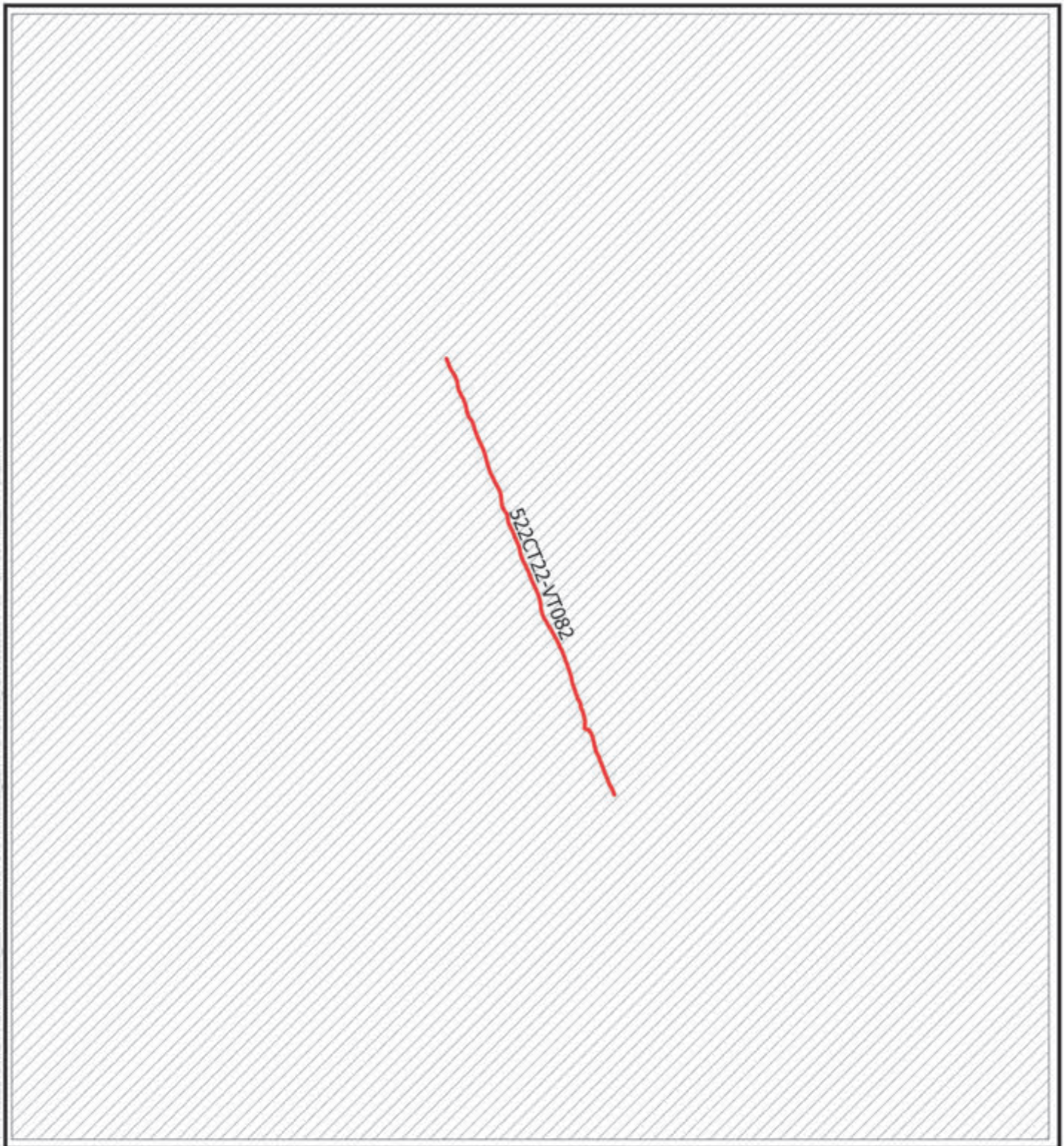
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT081

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICSURVEY\LAYOUTS\BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT082

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

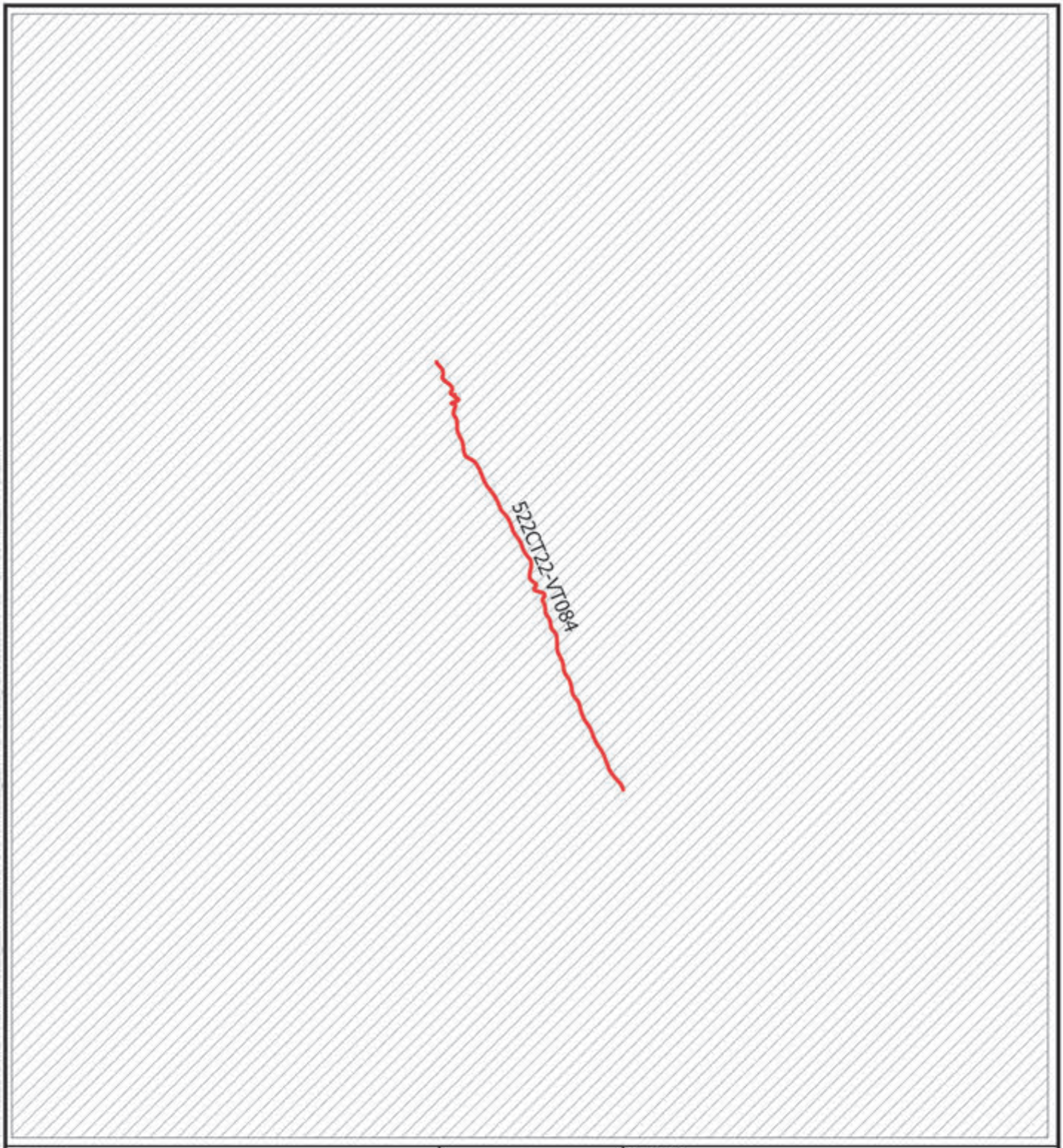
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT083

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

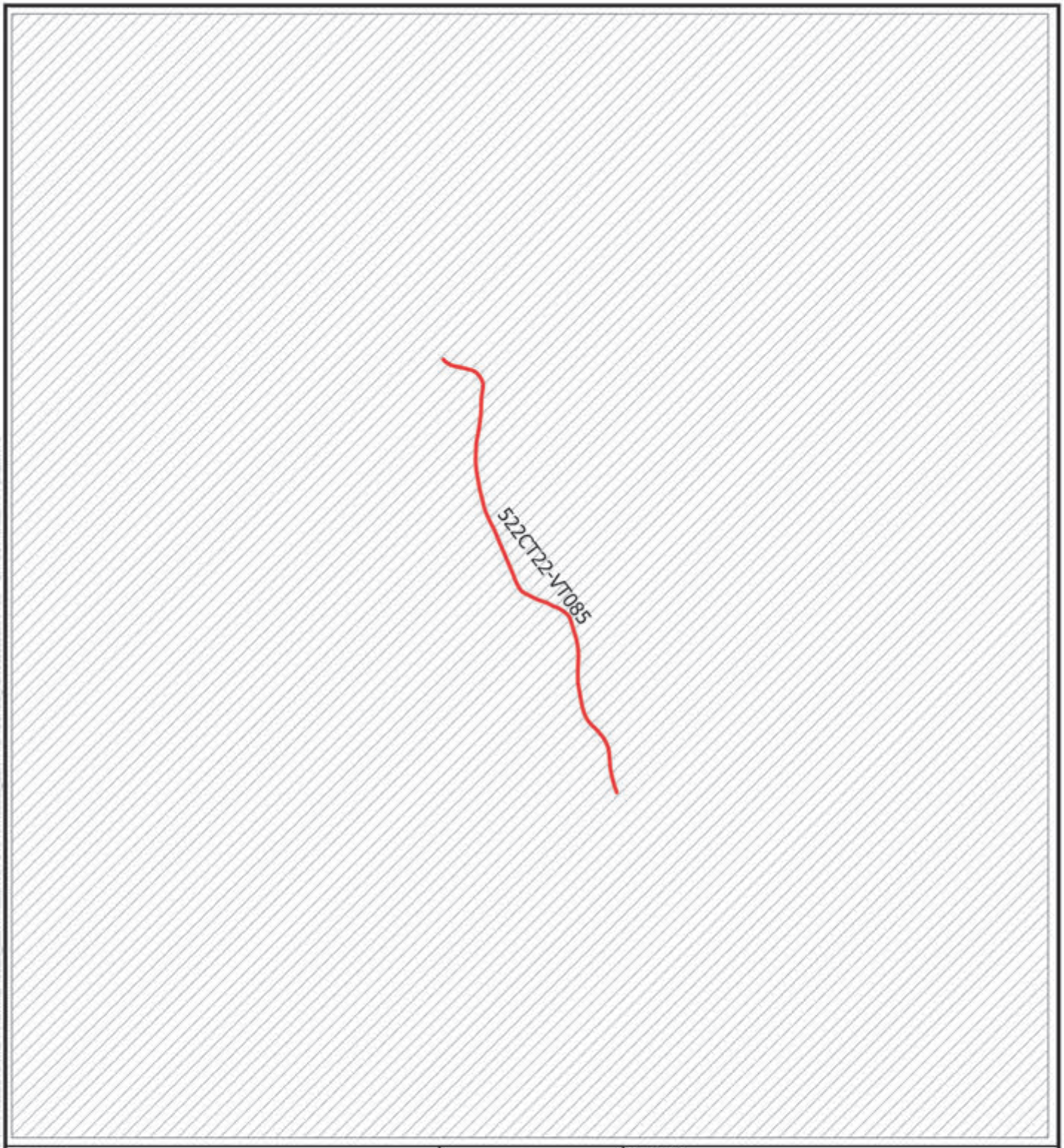
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT084

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

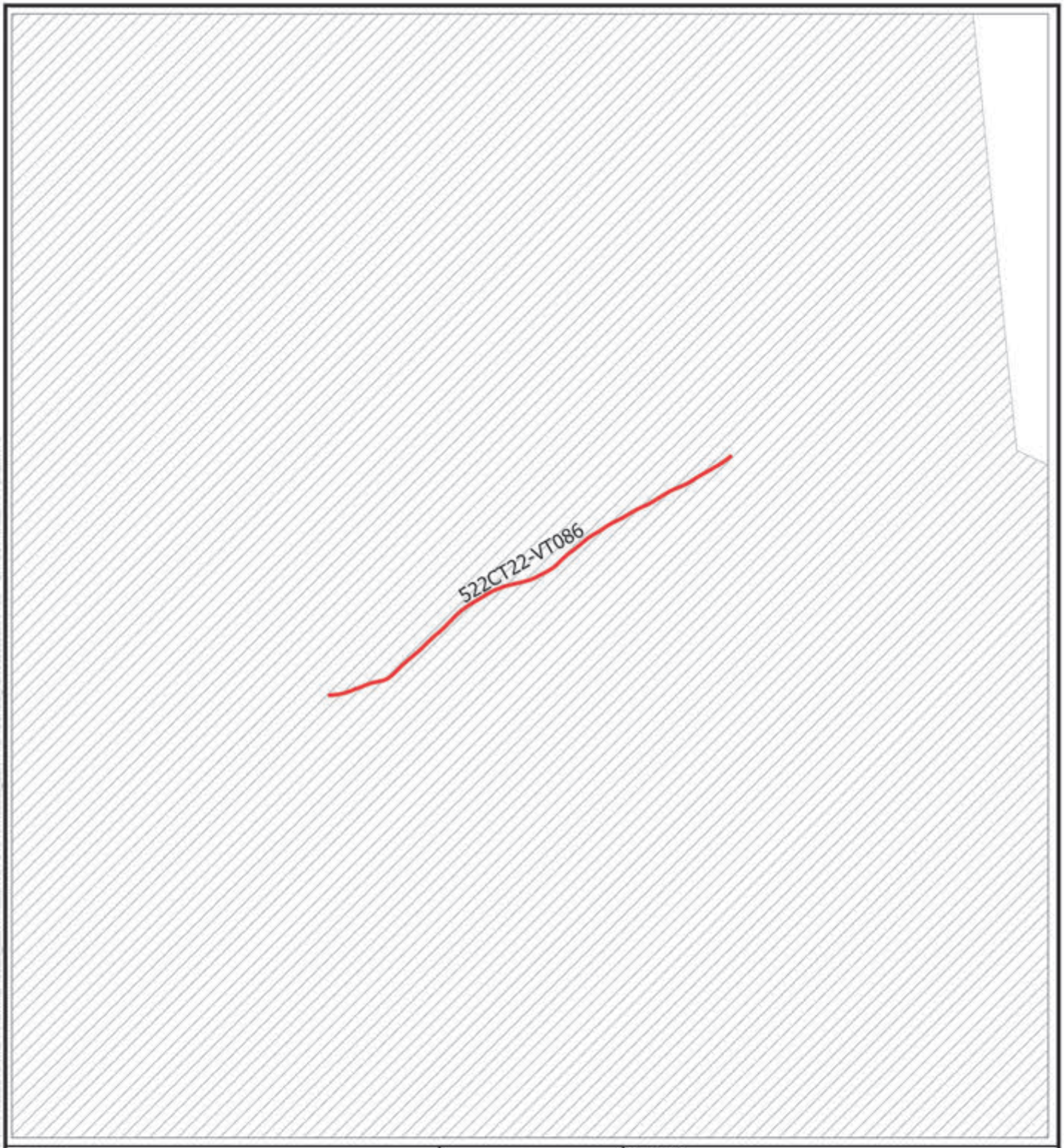
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT085

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

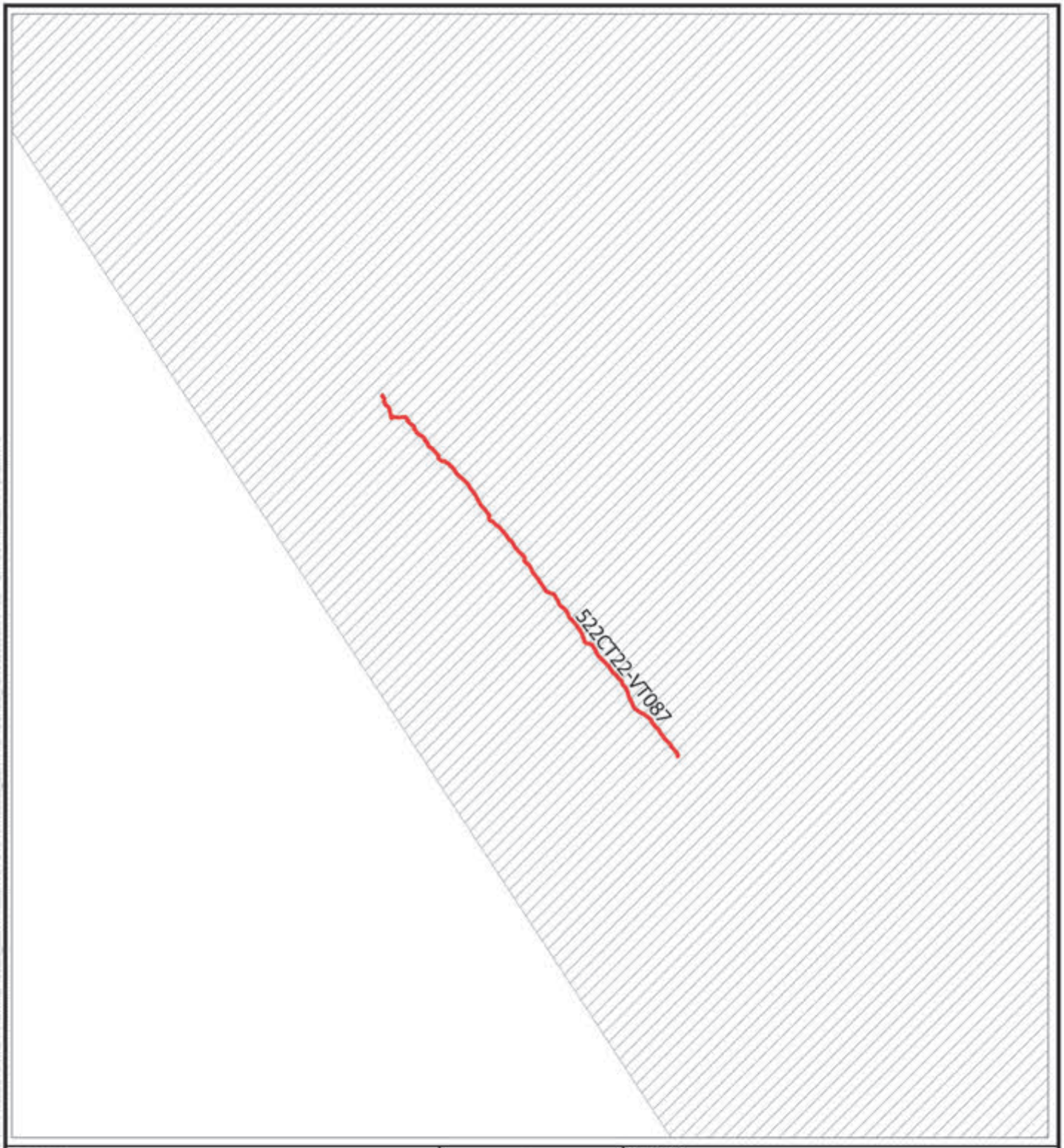
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT086

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT087

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES:
CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT088

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

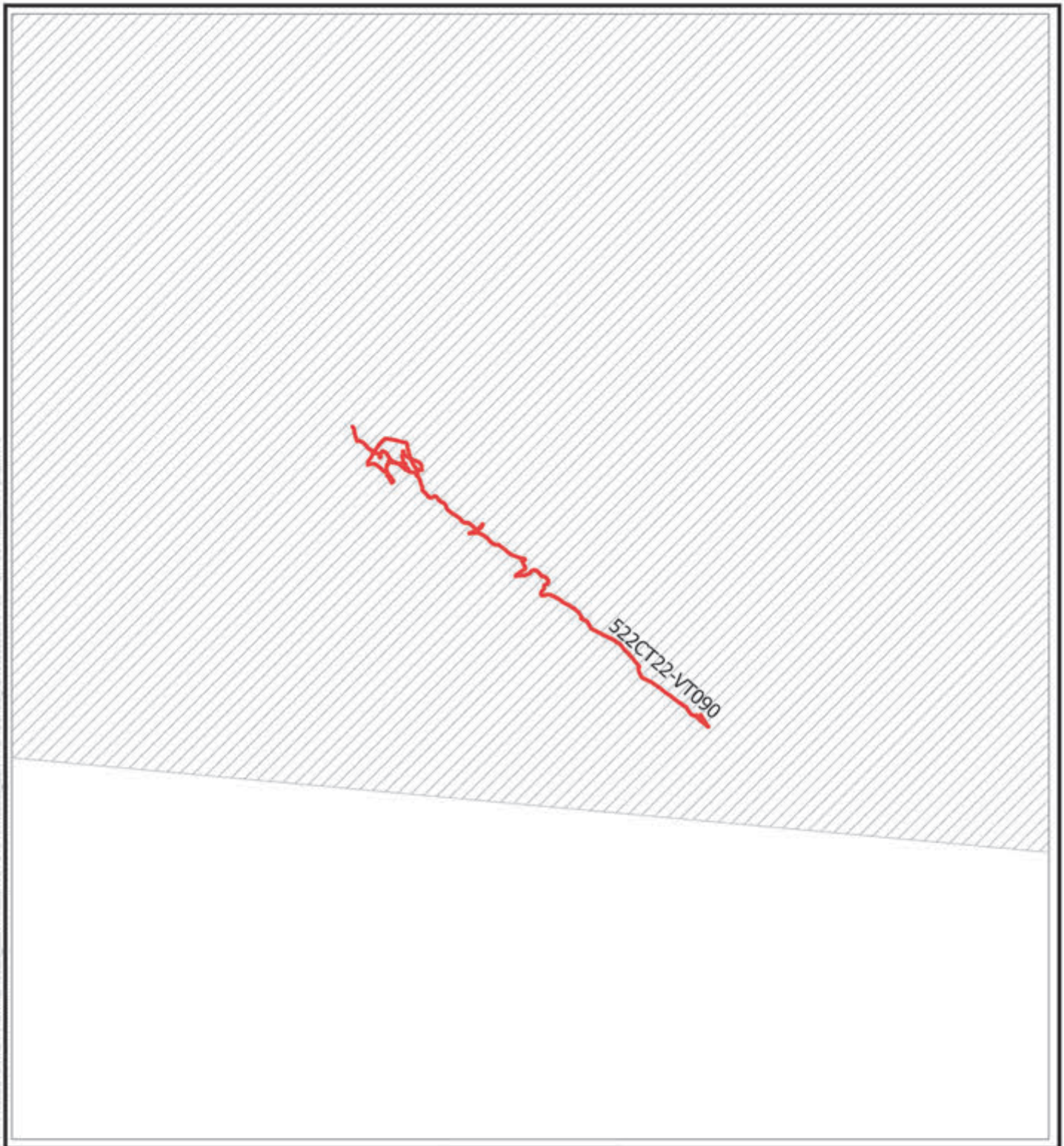
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT089

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

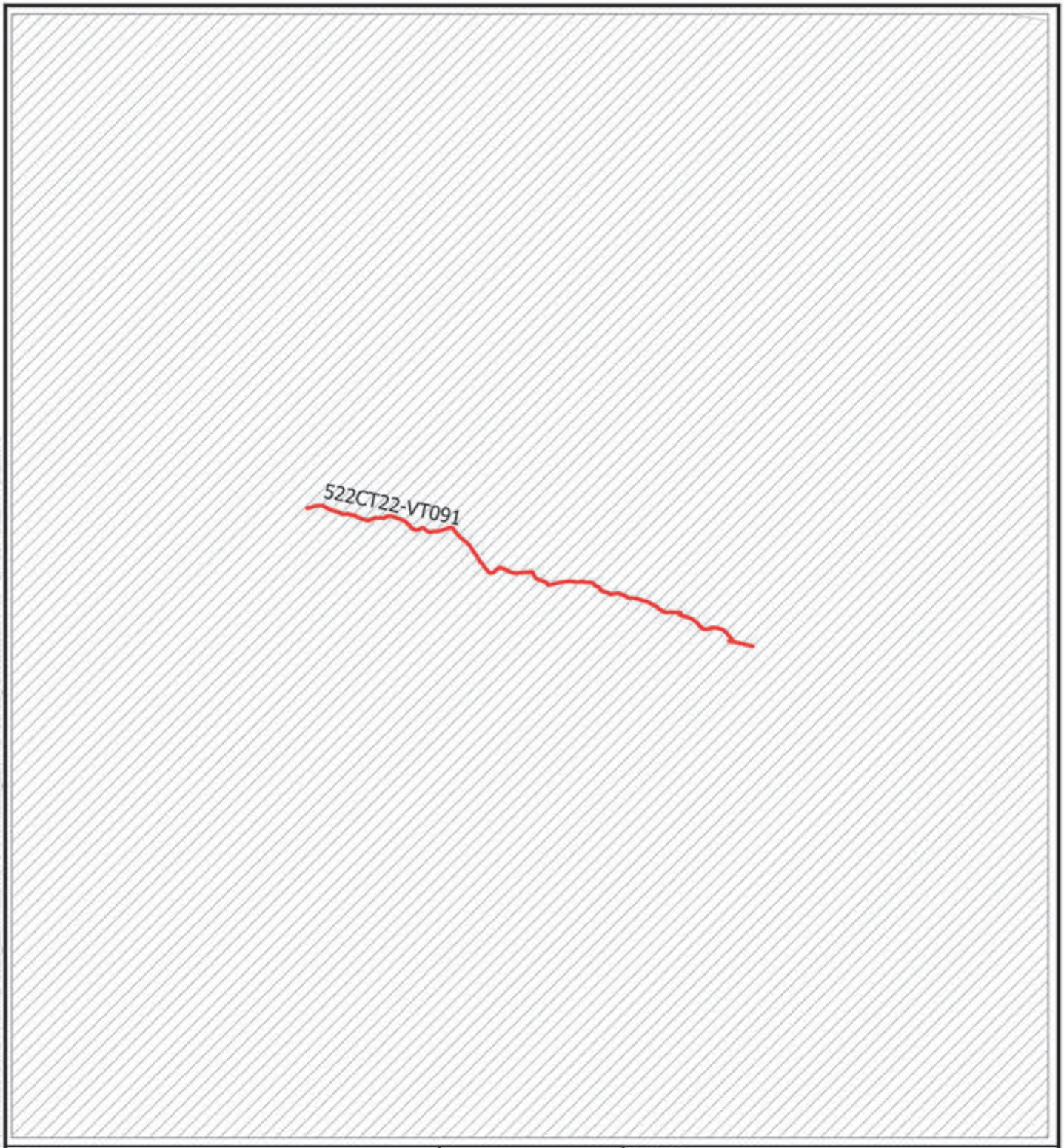
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-3**	
APPROVED BY:	M. LADEWIG	Transect: 522CT22-VT090	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVE\FIGURES\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

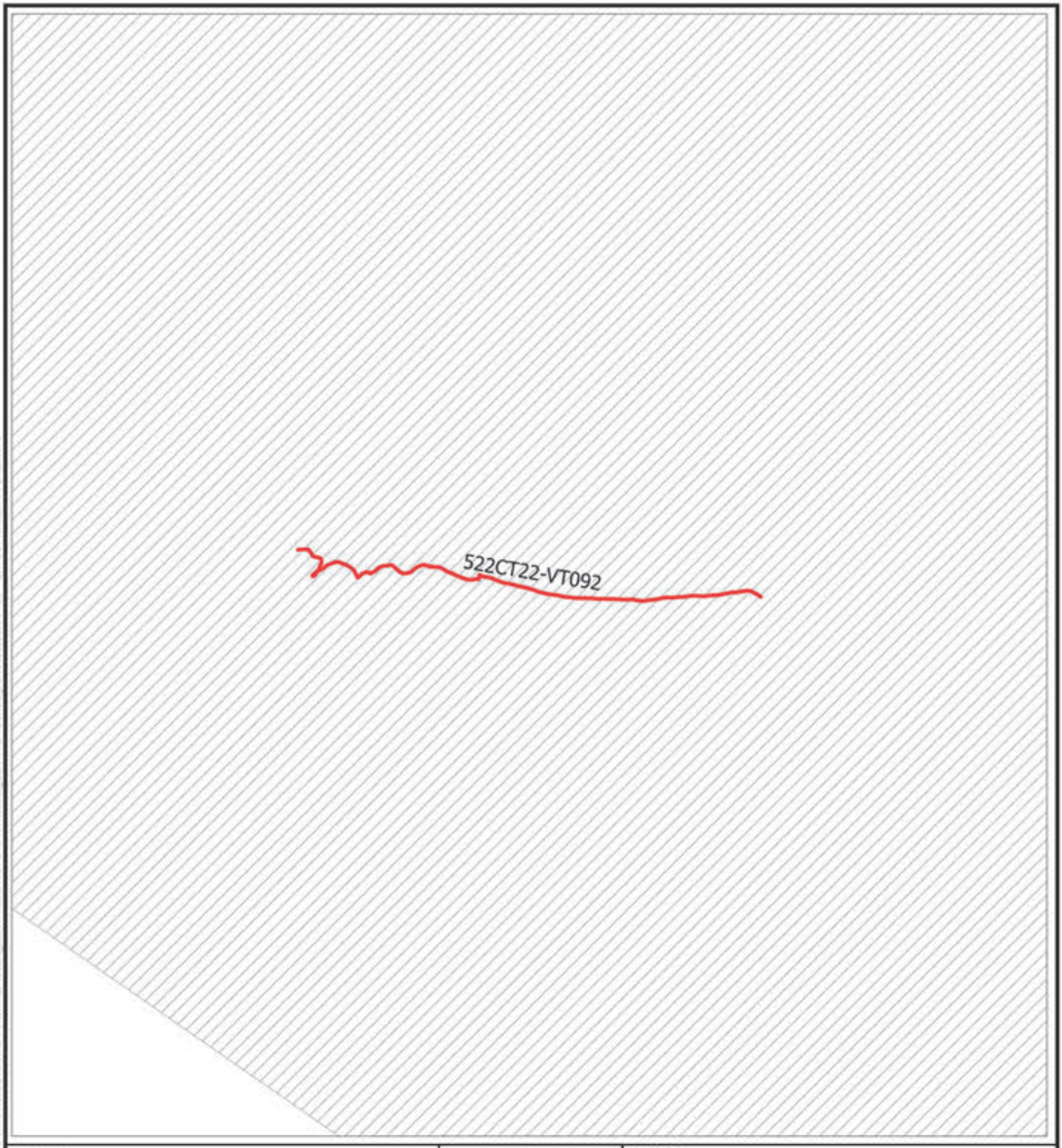
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT091

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

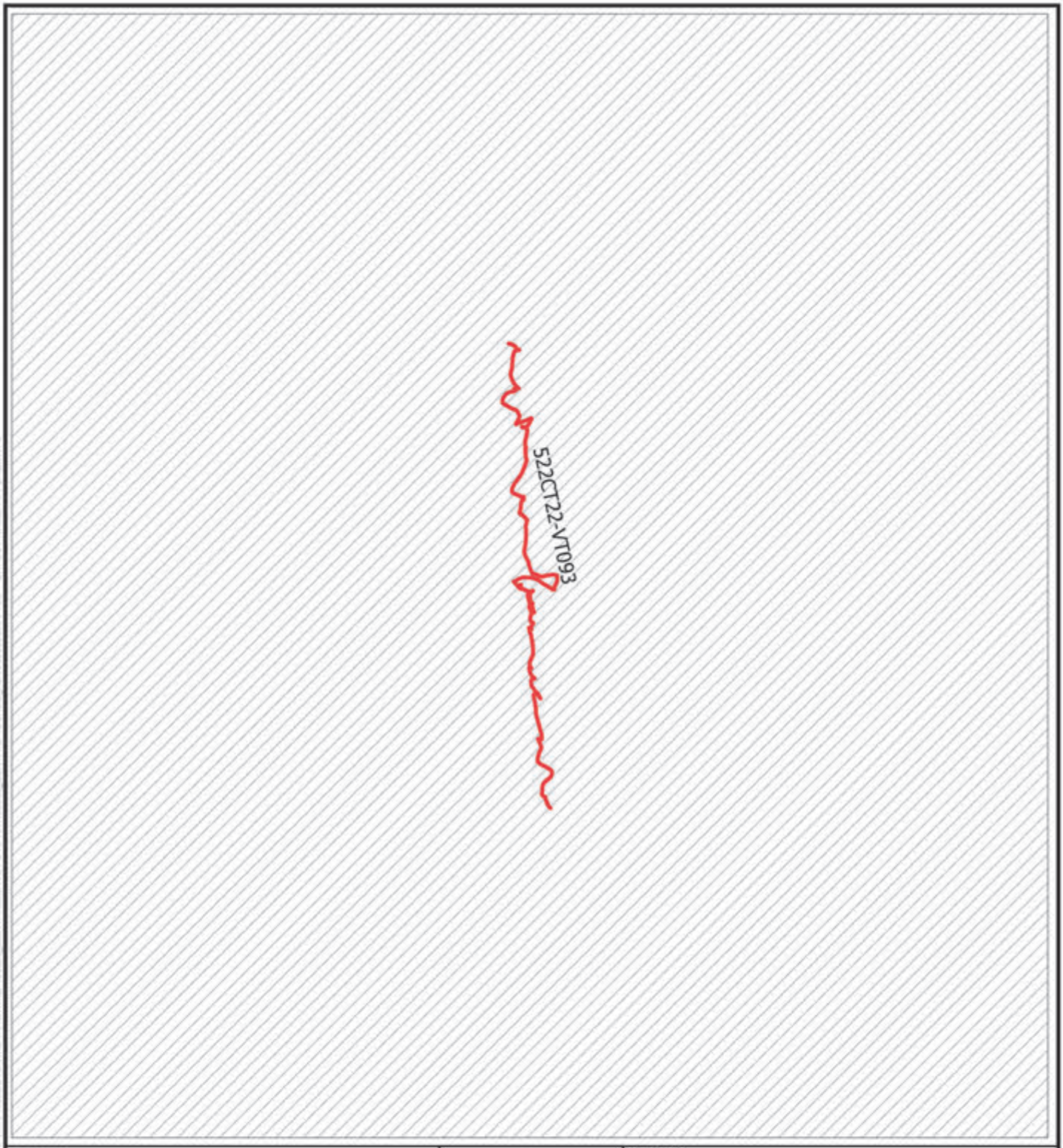
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT092

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

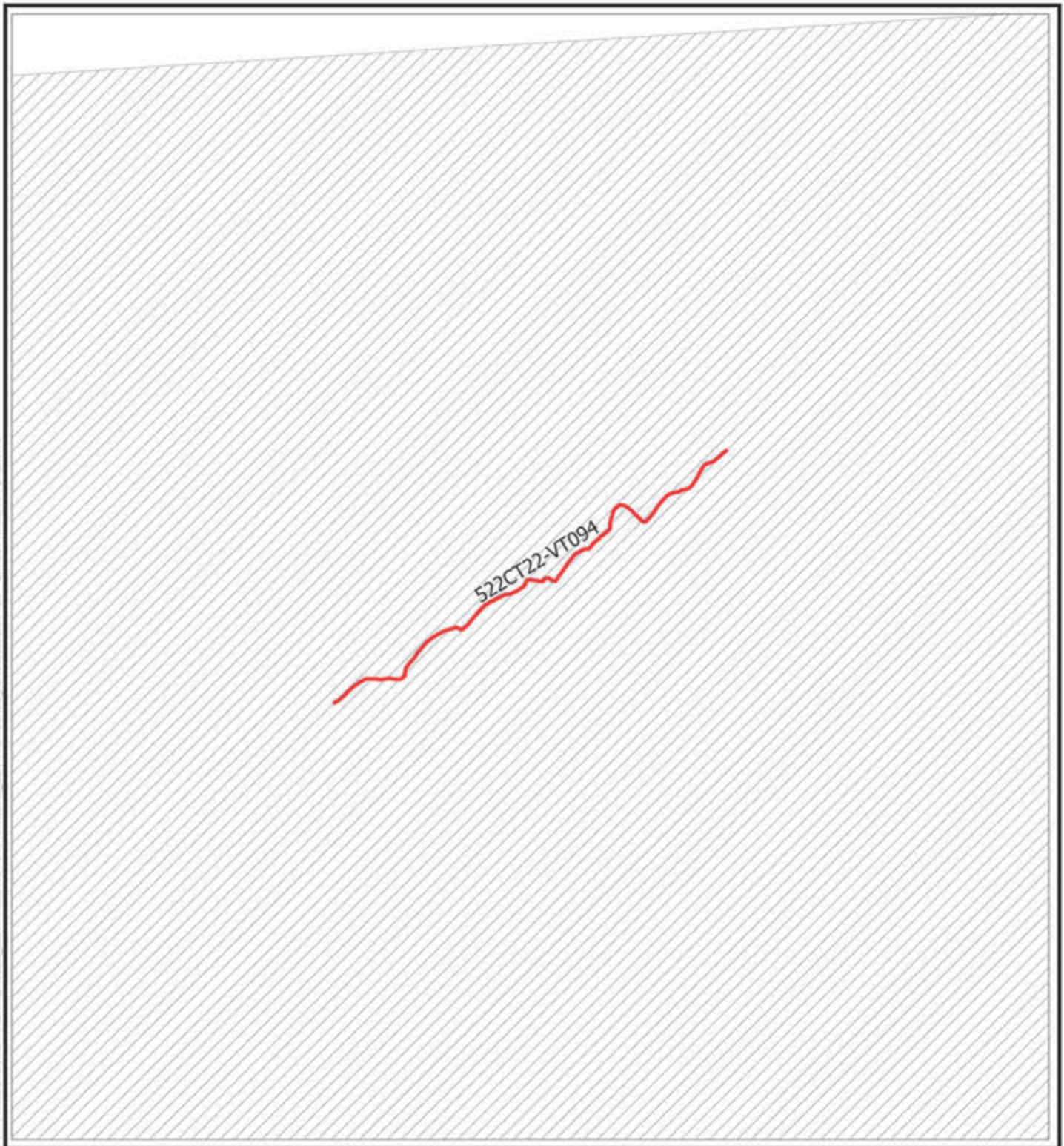
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT093

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

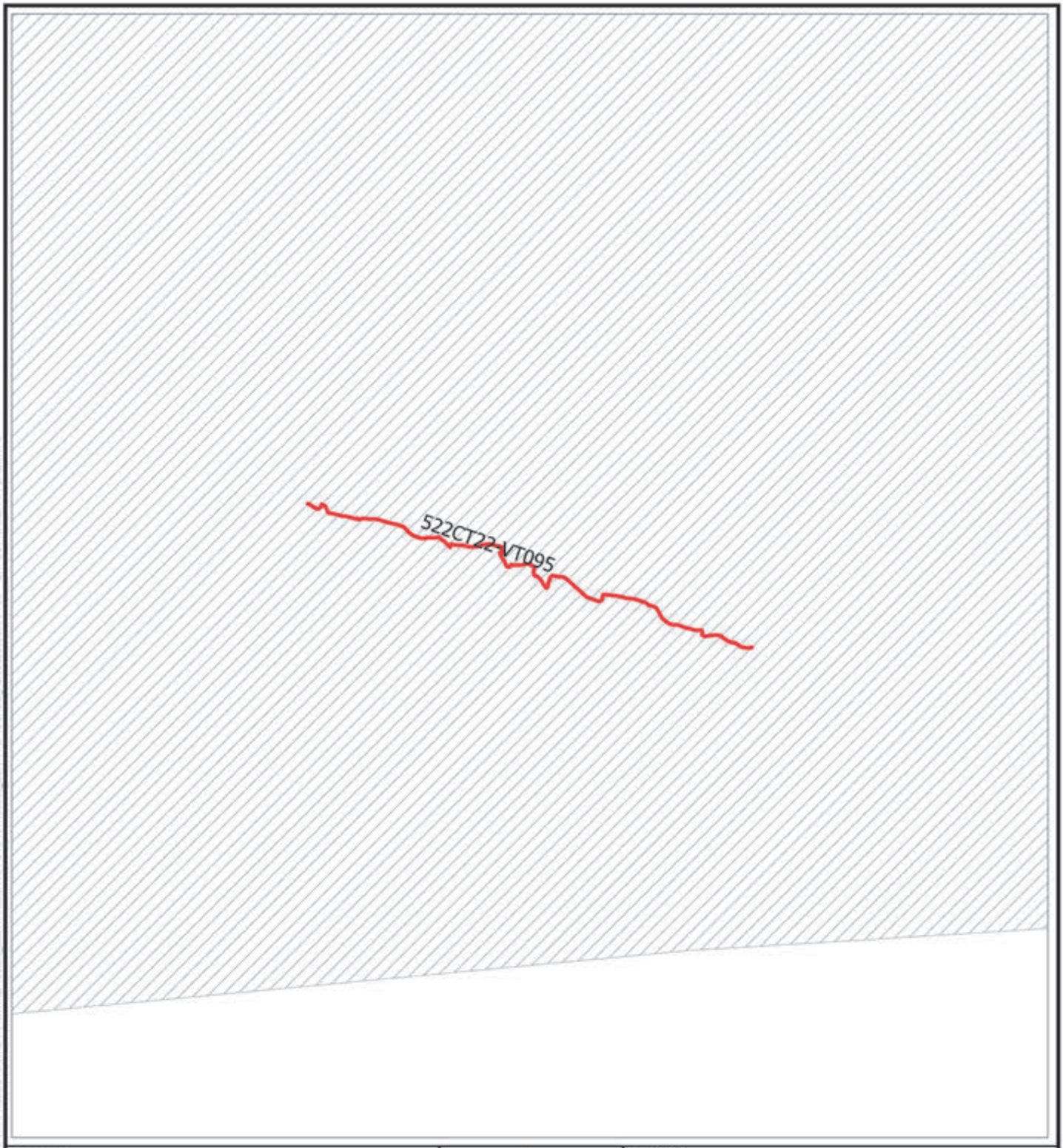
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT094

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 50

METERS

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

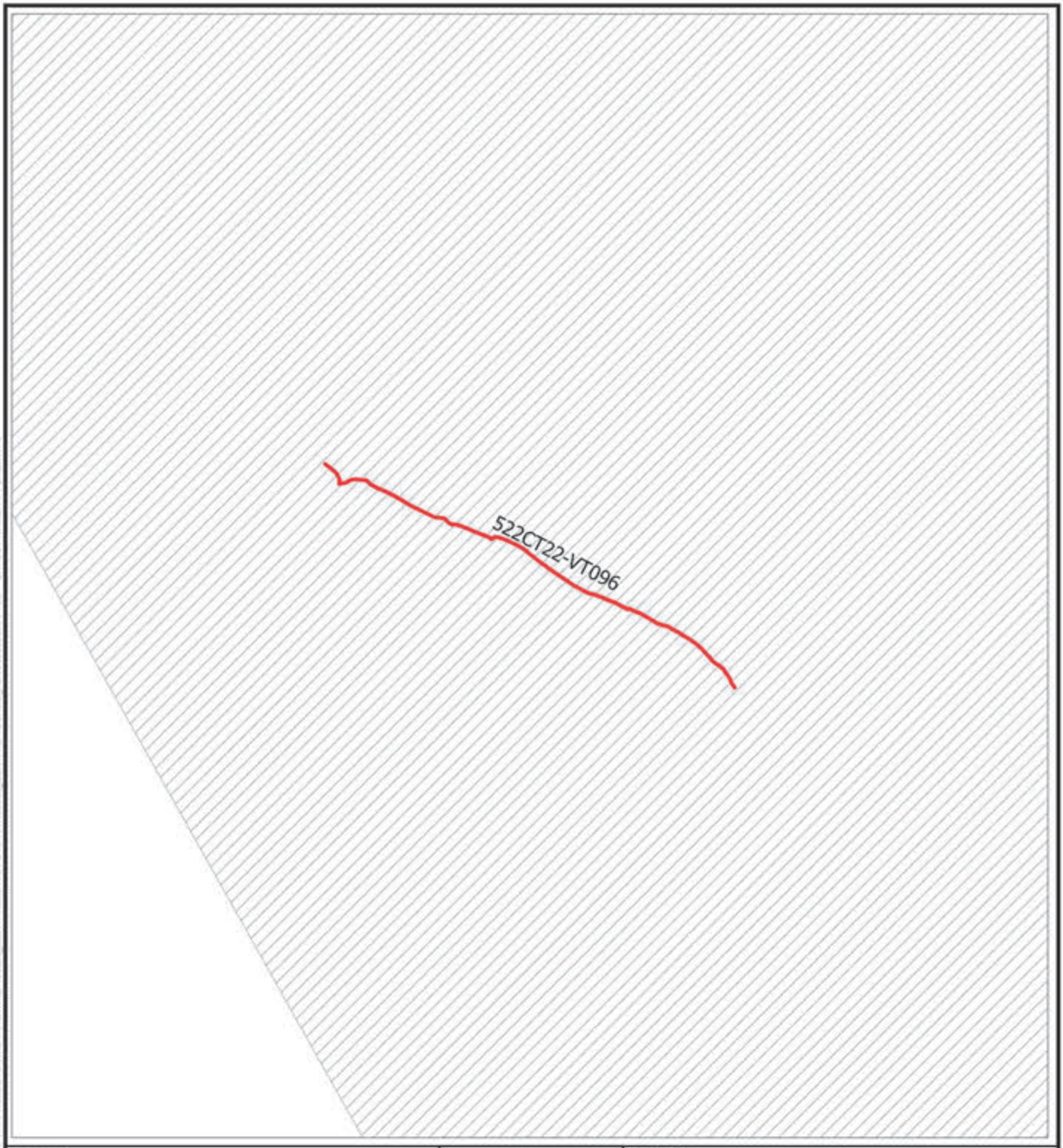
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT095

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

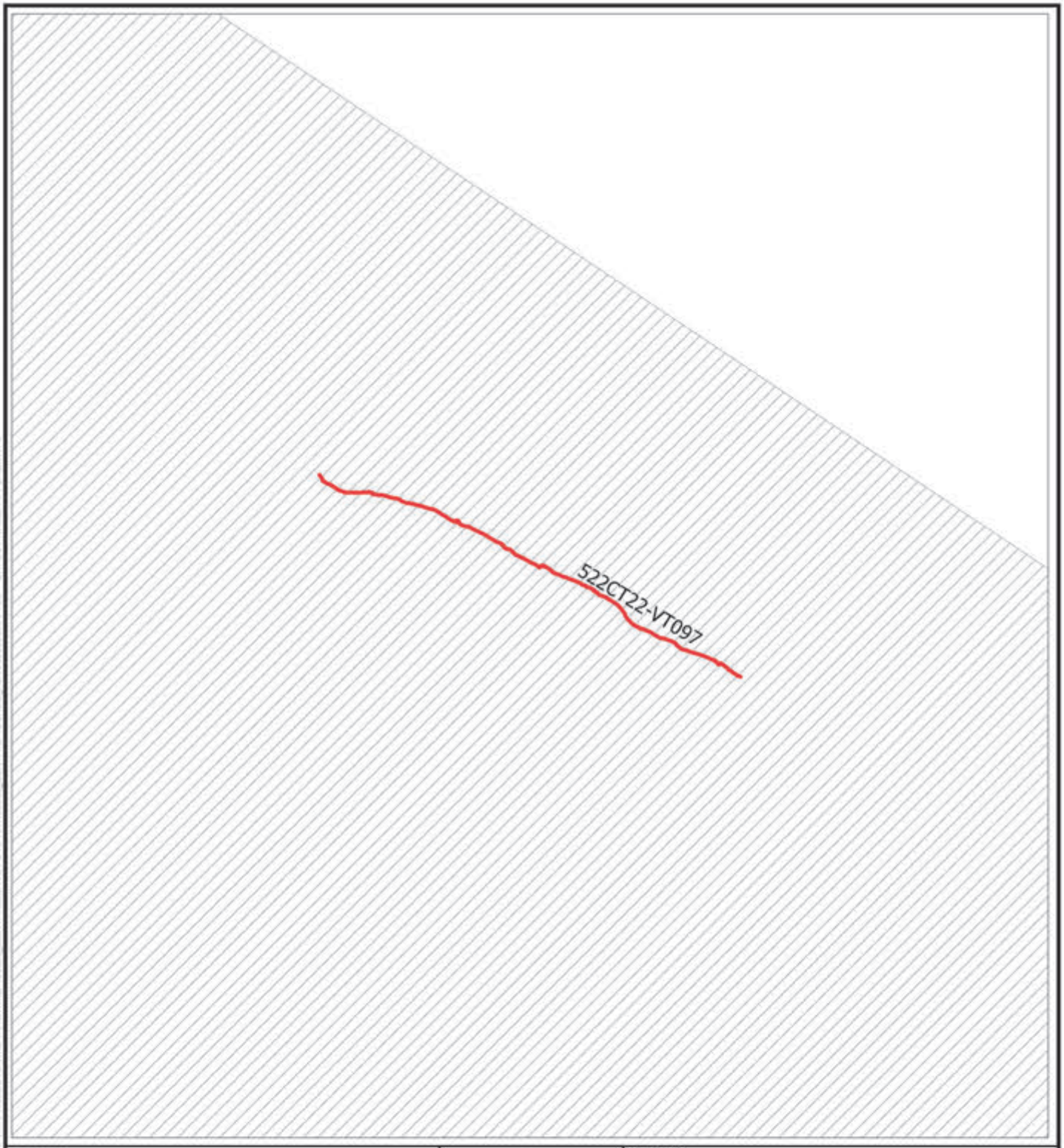
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT096

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

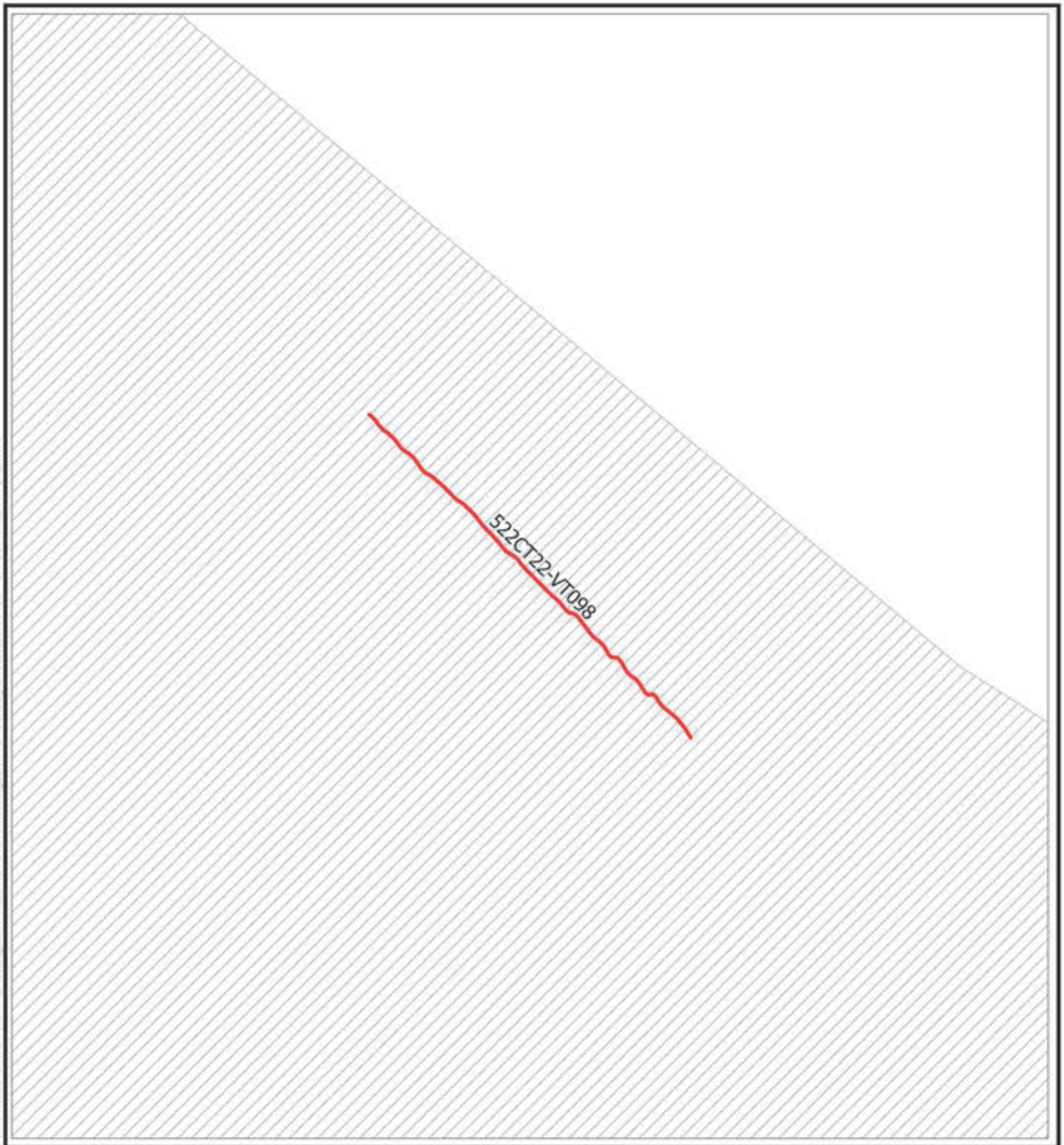
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT097

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230209.APRX - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

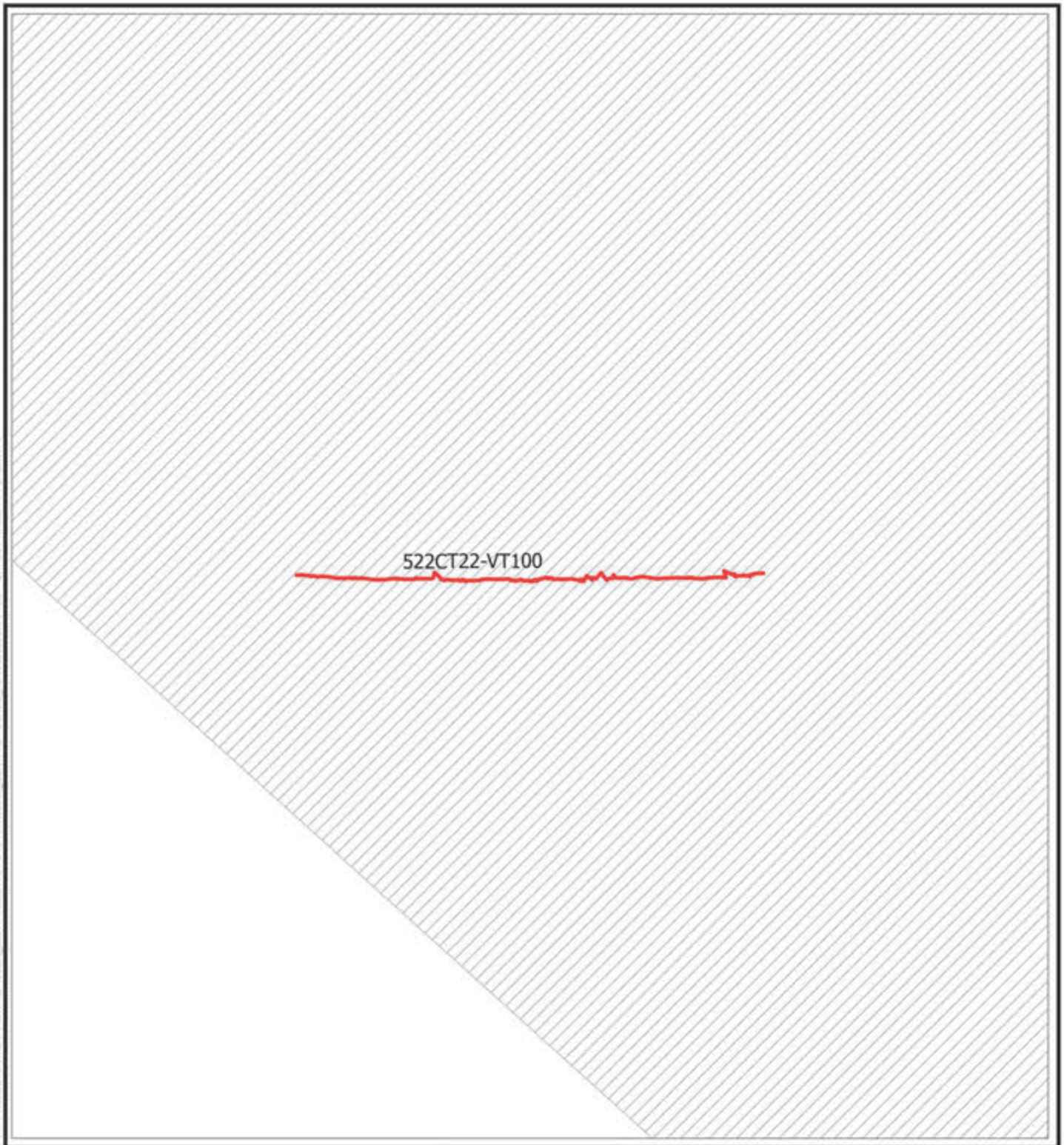
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT098

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

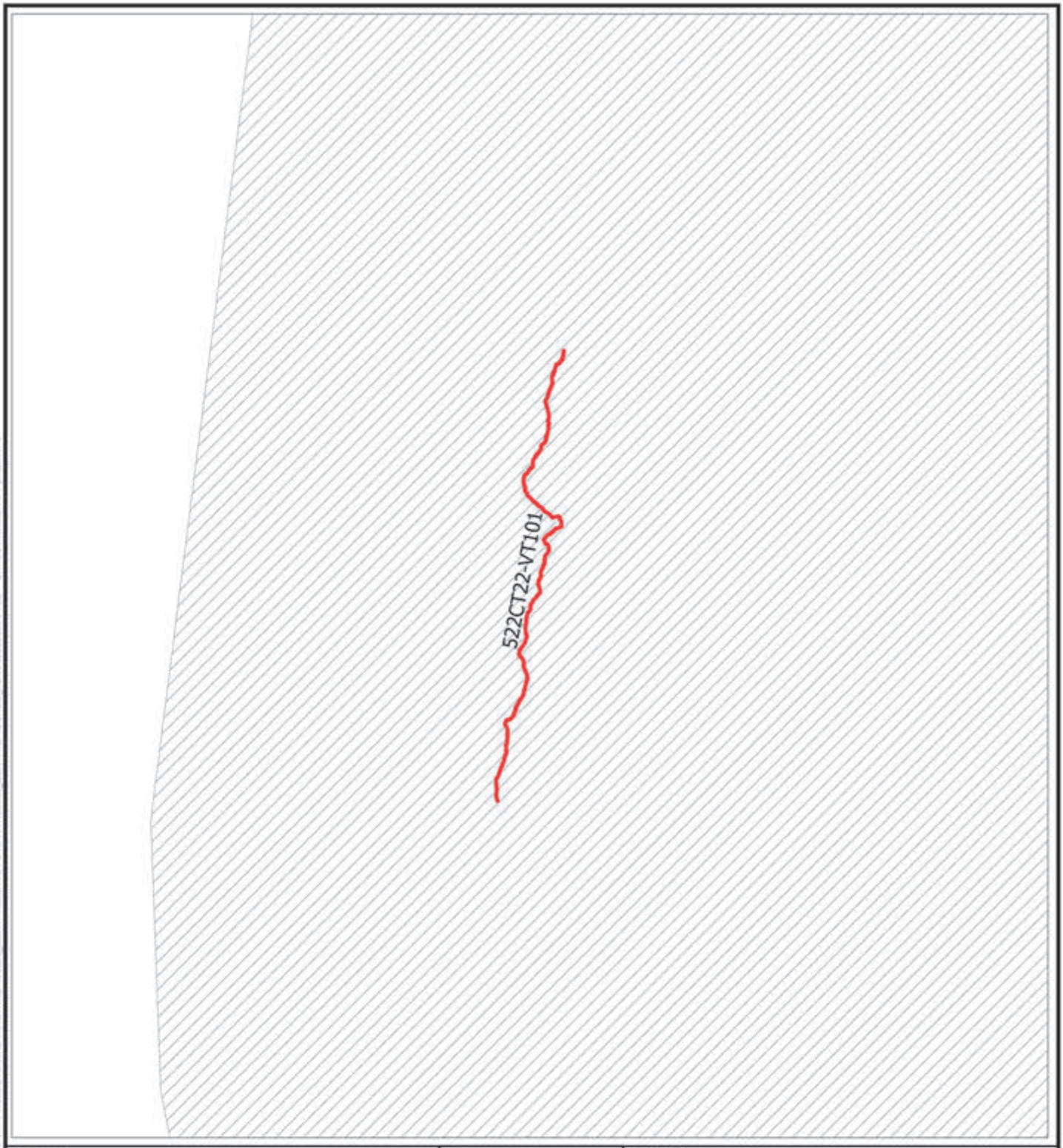
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT100

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

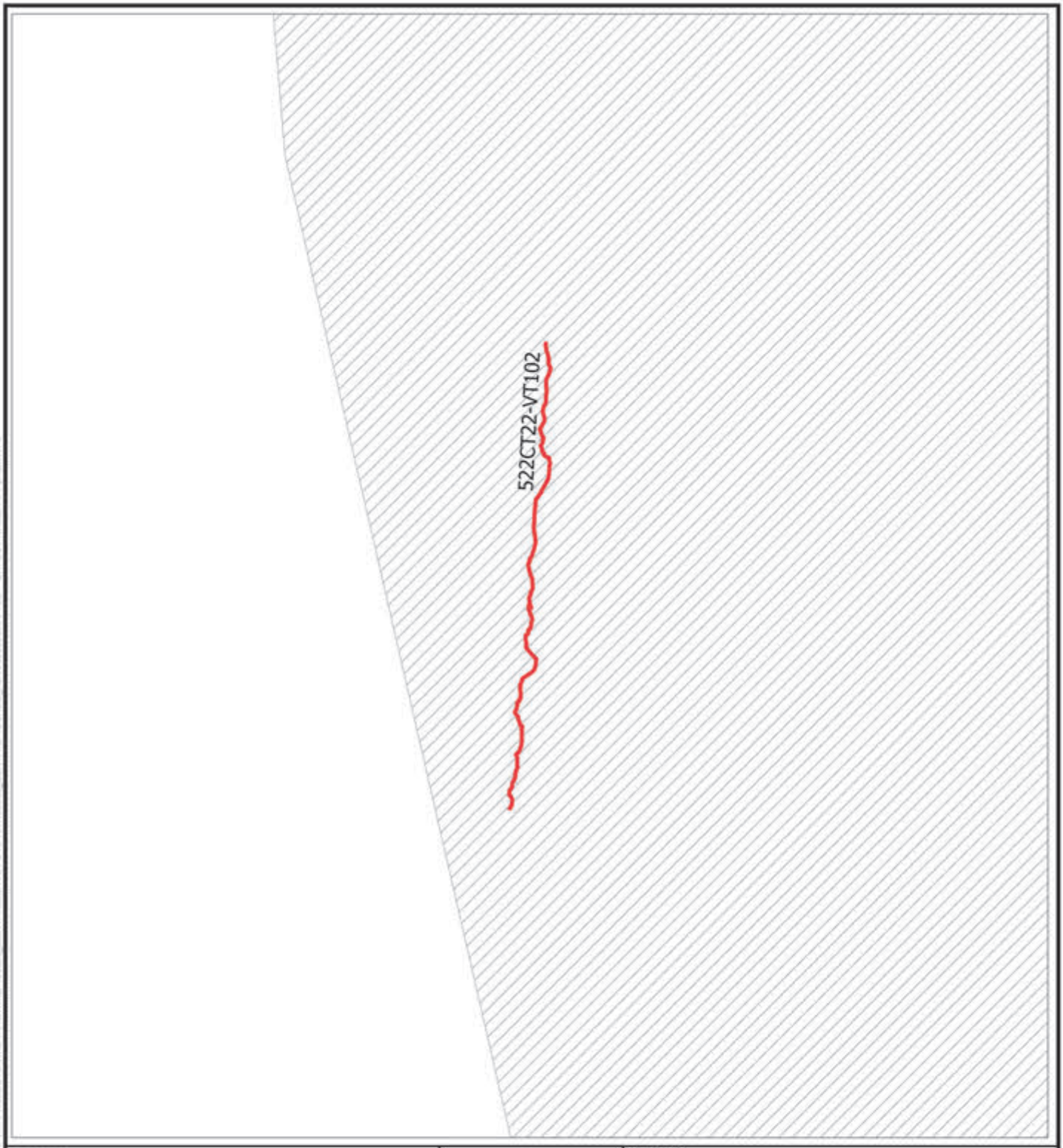
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT101

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

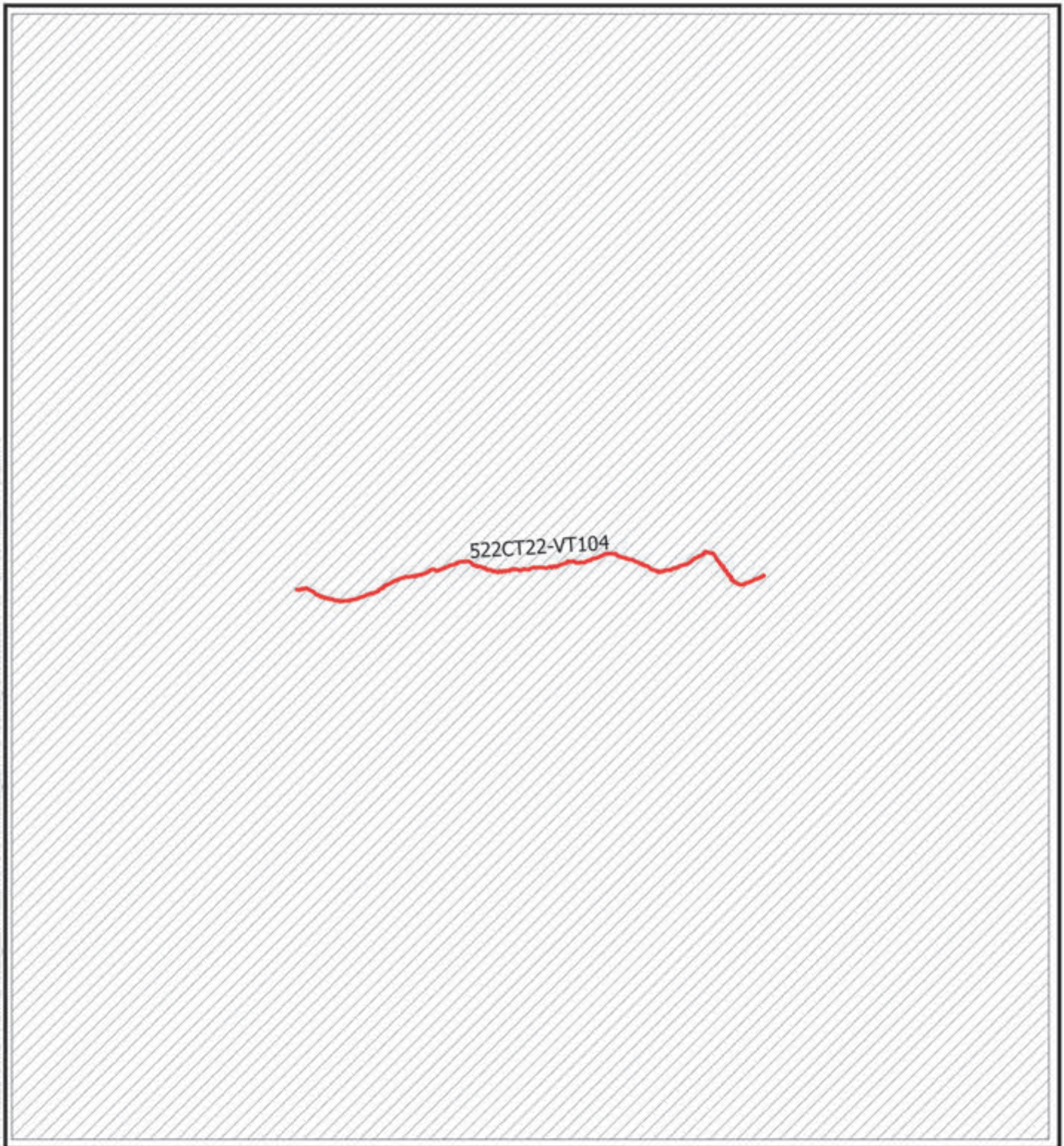
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT102

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYERS\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT104

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

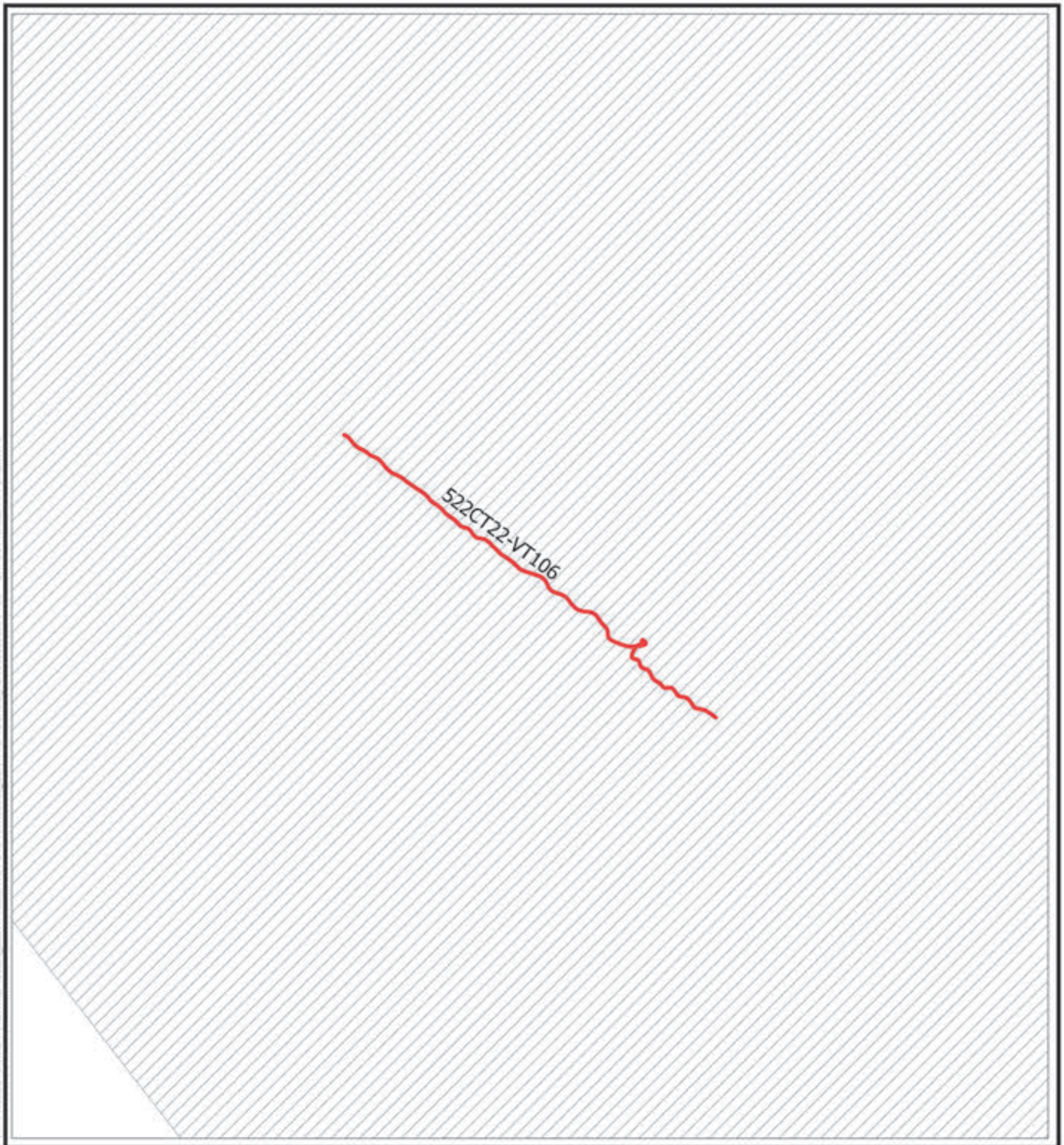
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT105

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYER\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

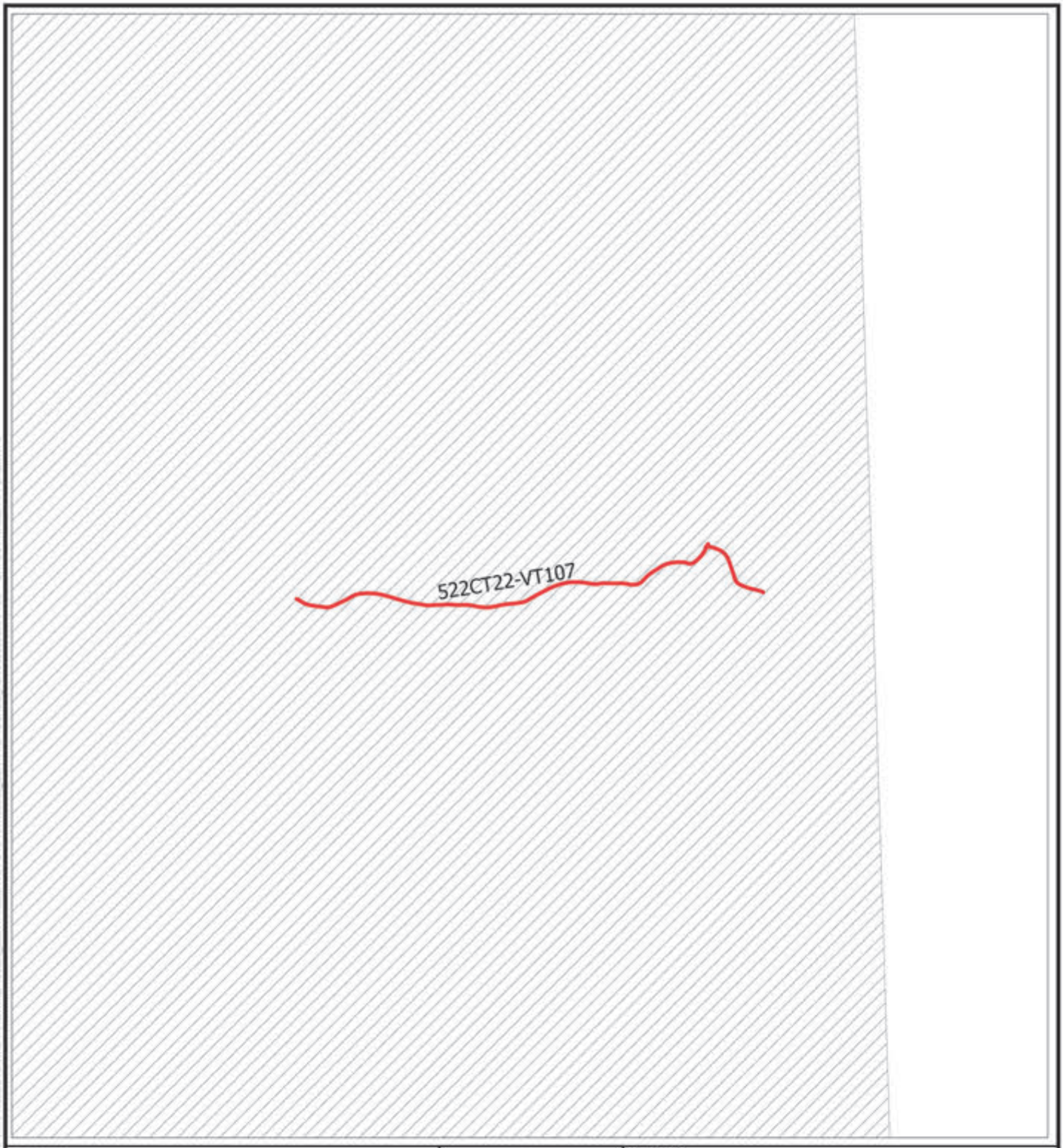
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN	**Appendix A-3**	
APPROVED BY:	M. LADEWIG	Transect: 522CT22-VT106	
DATE:	MARCH 2023		

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

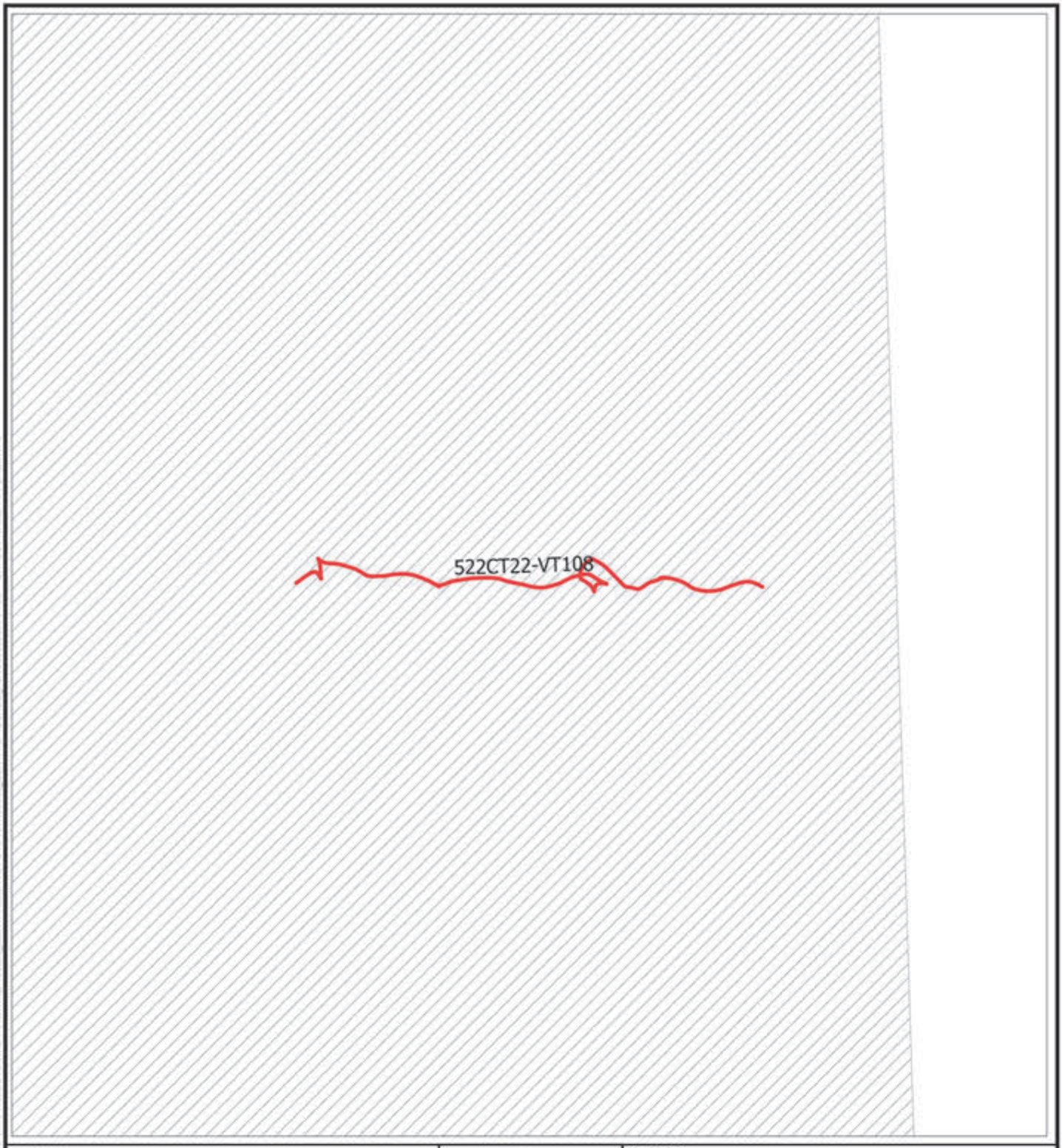
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT107

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

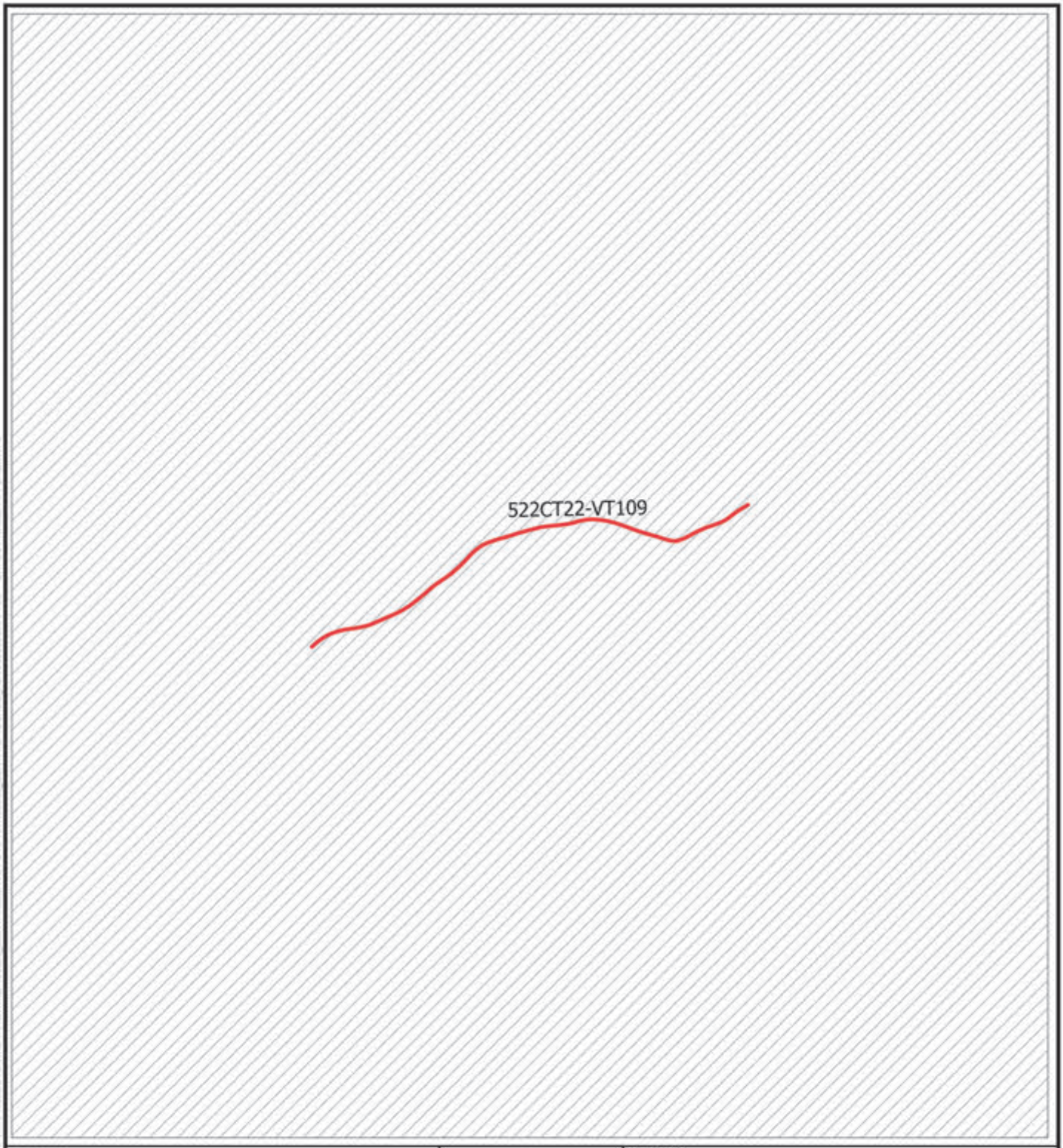
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT108

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

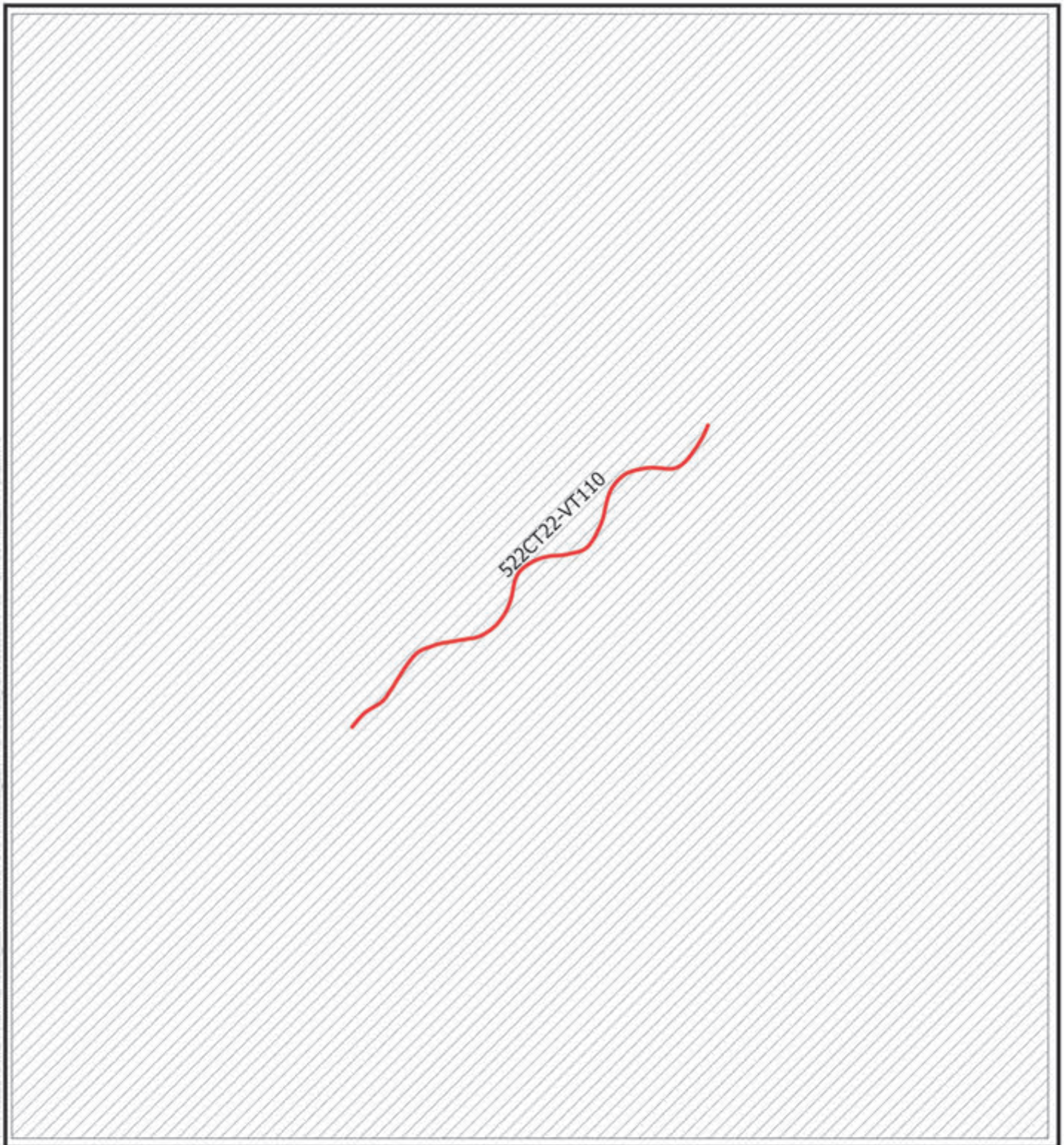
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT109

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT110

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

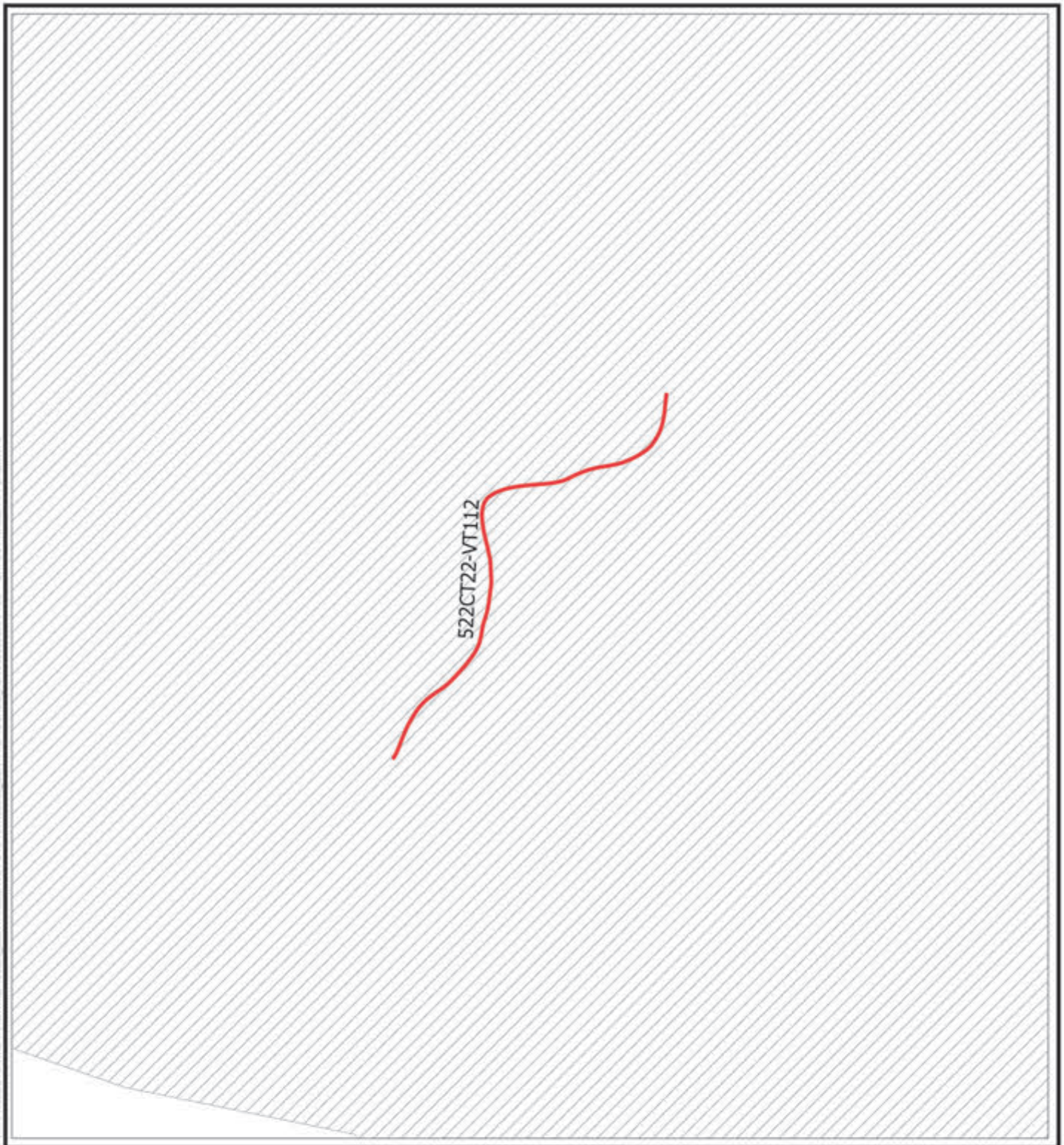
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT111

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCHIVE\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

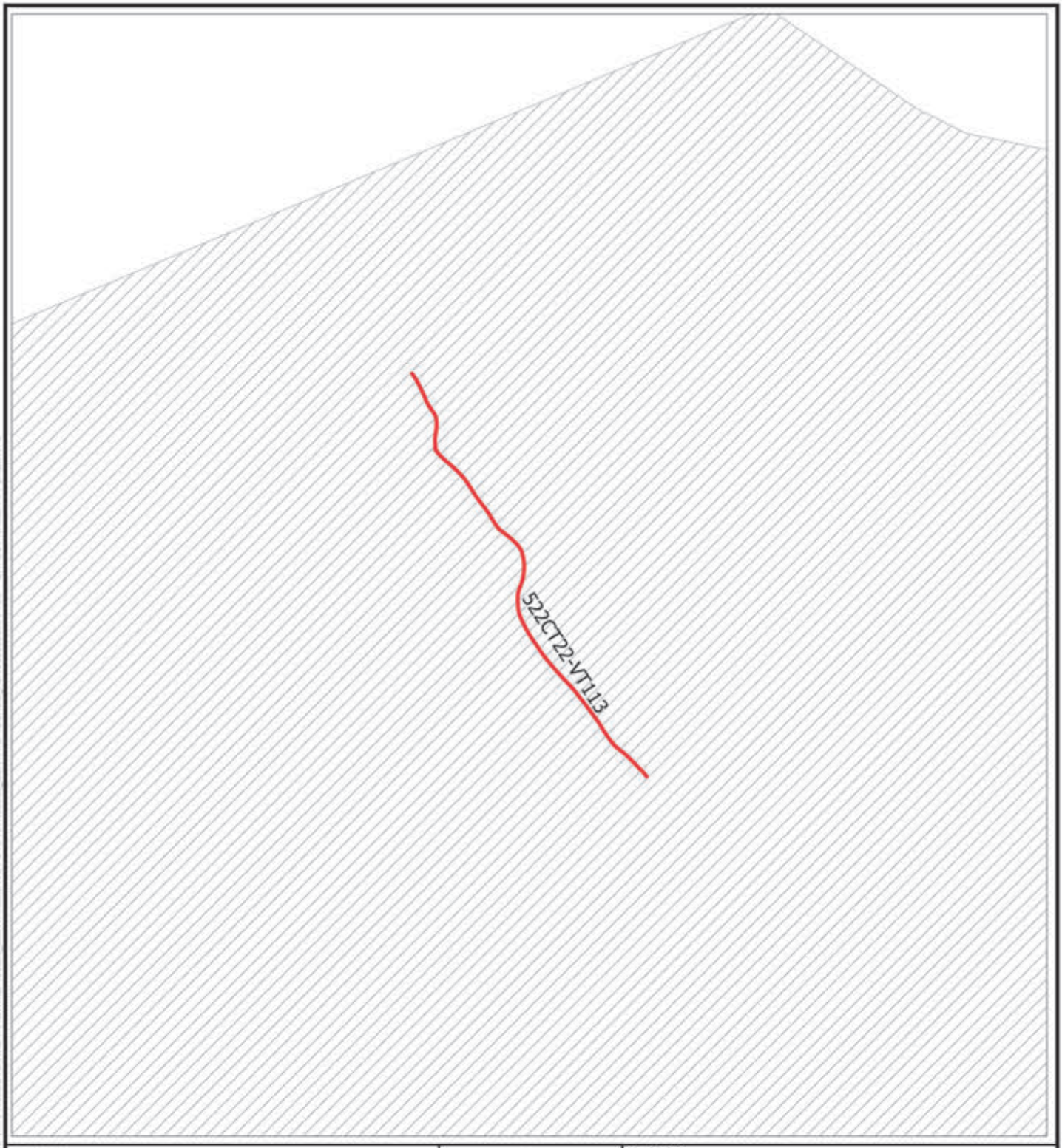
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT112

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230209.APRX LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT113

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

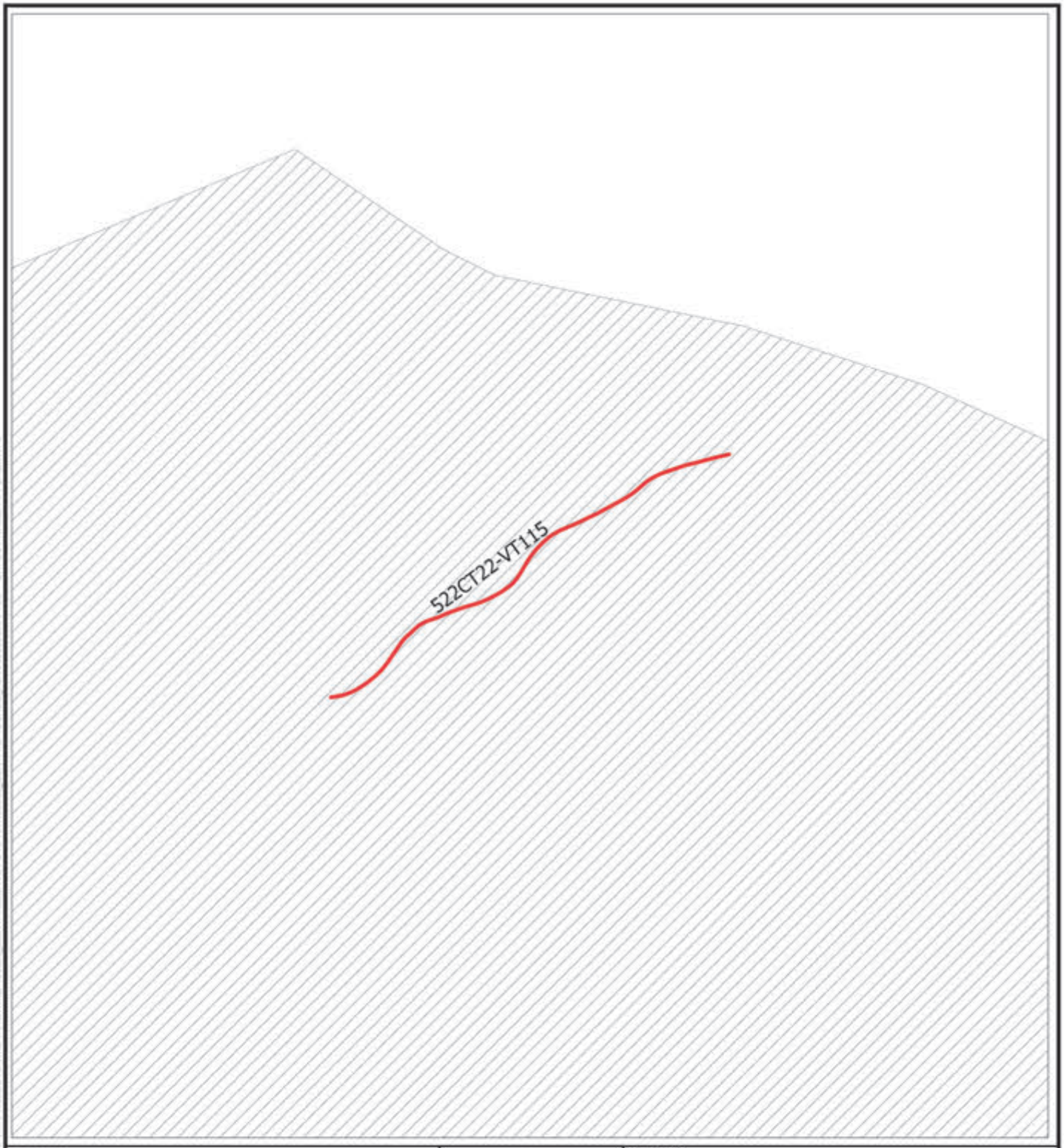
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT114

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVEC\ARCMAP\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

UNDERWATER VIDEO TRACK LINES: CT OECC

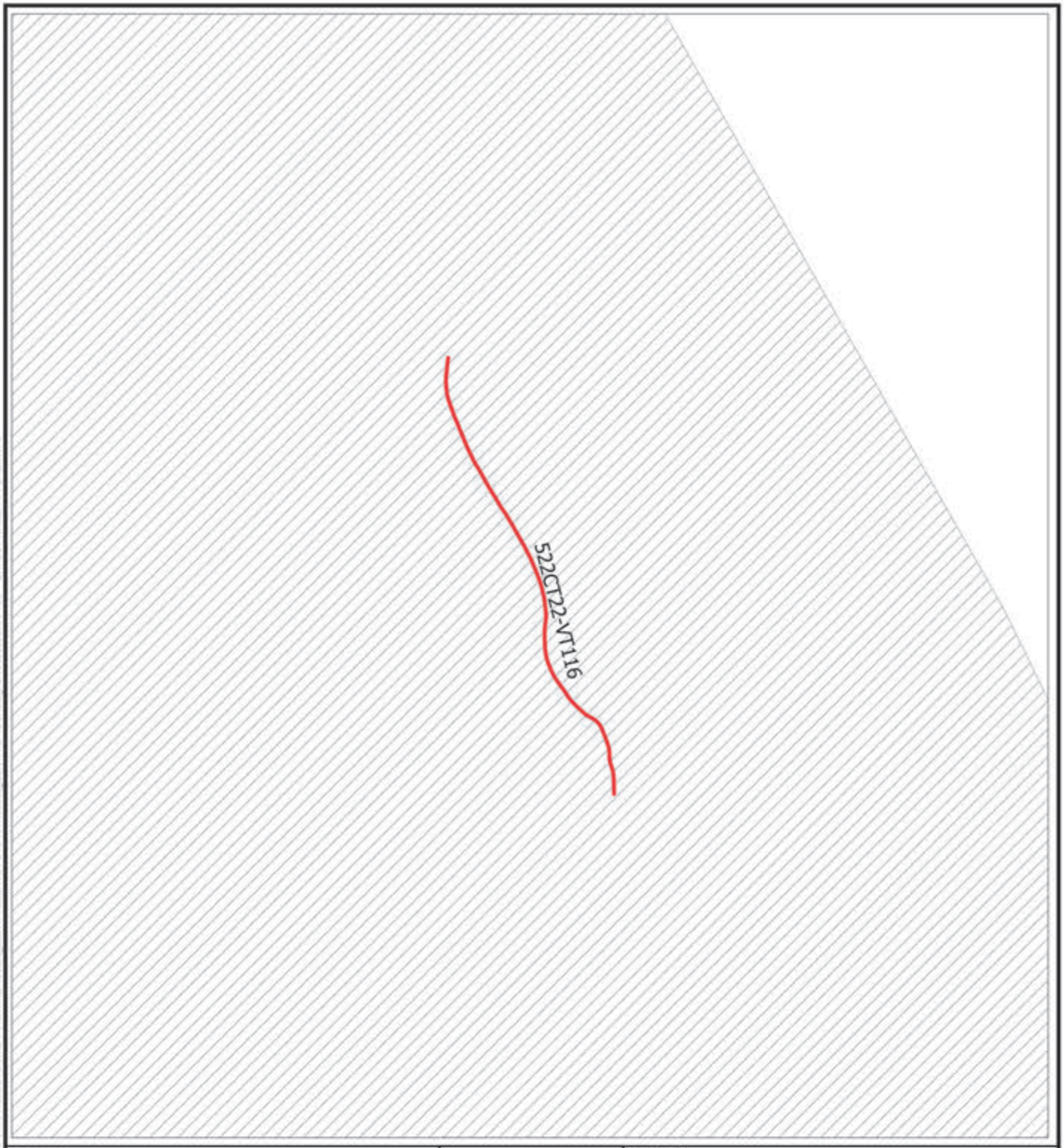
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT115

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD - LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

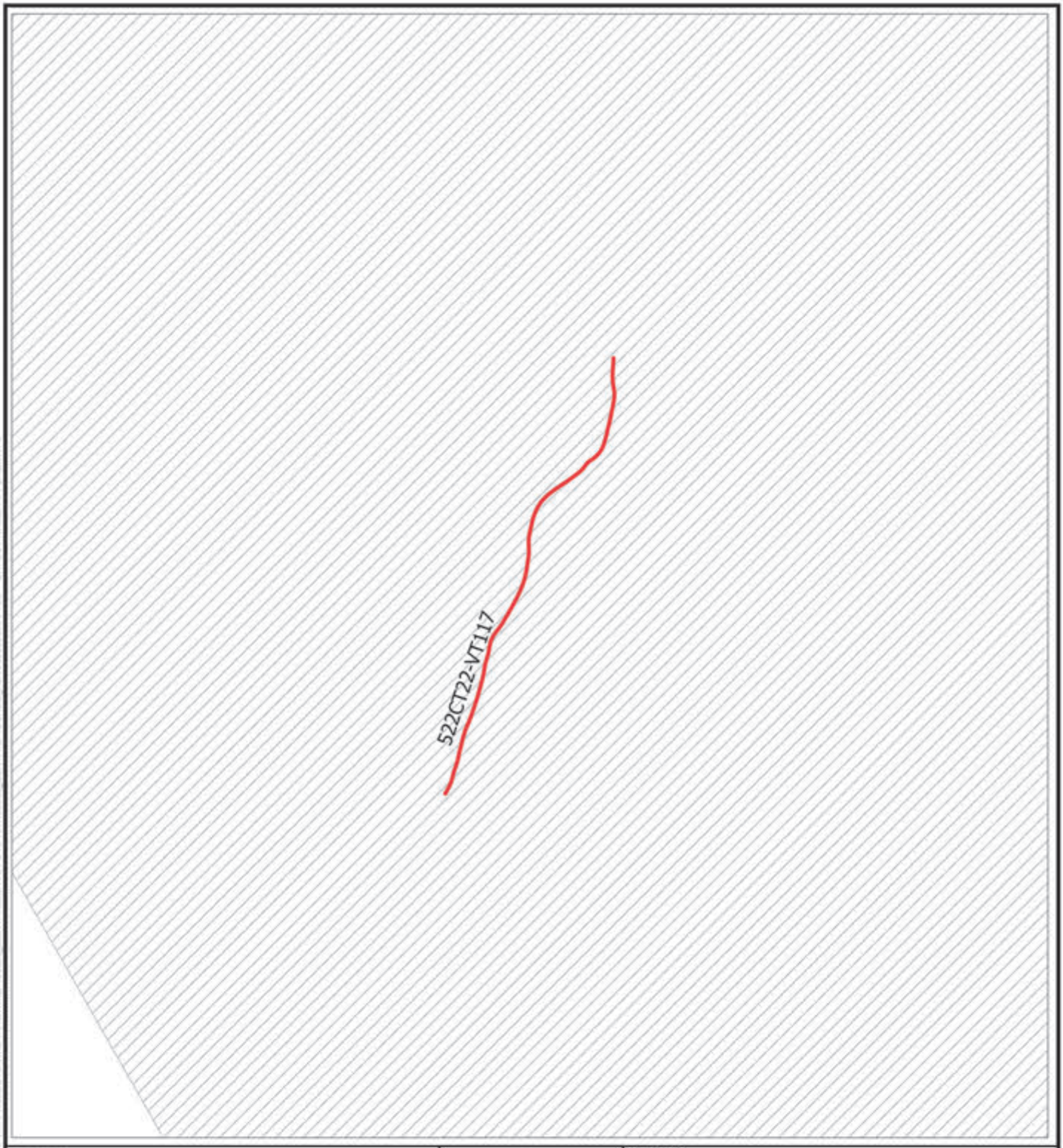
TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG	**Appendix A-3**	
DATE:	MARCH 2023	Transect: 522CT22-VT116	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
UNDERWATER VIDEO TRACK LINES: CT OECC

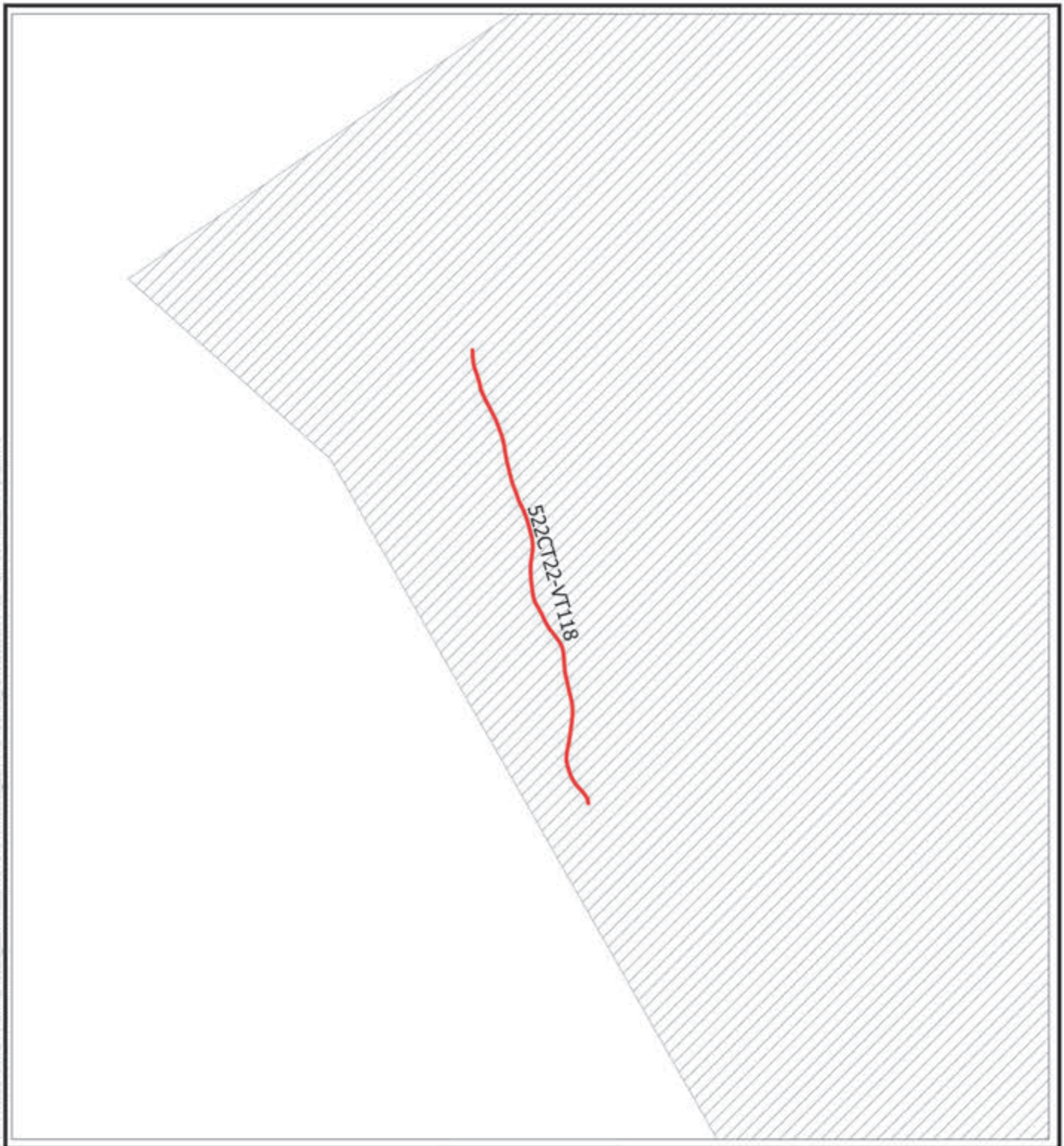
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT117

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: JDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3



CT Offshore Export Cable Corridor

Video Track Lines, CT OECC

N

0 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: UNDERWATER VIDEO TRACK LINES: CT OECC

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	H. EIBEN		
APPROVED BY:	M. LADEWIG		
DATE:	MARCH 2023		

Appendix A-3
Transect: 522CT22-VT118

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230209

SAVED BY: SDEHAINAUT ON 3/13/2023, 14:15:25 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARRAN\483856_BENTHICFIGURES_REV20230209.MXD LAYOUT NAME: APPENDIX A-3

Appendix B-1: Benthic Grab Sampling Field Log: 522 Lease Area

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522LA22-GB01-1	High	04/18/22	3:48	23.66	Y	Y	Y	Y	Y	Y	Fine sand, Olive gray (5y4/1) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB02A-2	Low	04/18/22	4:54	47.72	Y	Y	Y	Y	N	Y	Fine sand, Olive gray (5y4/1) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB02B-1	Low	04/18/22	5:11	45.56	Y	Y	Y	Y	N	Y	Fine sand, Olive gray (5y4/1) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB02C-1	Low	04/18/22	5:29	45.95	Y	Y	Y	Y	N	Y	Fine Silty sand, Olive gray (5y4/1) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB03-1	Low	04/27/22	1:25	43.72	Y	Y	Y	Y	N	Y	Dense Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB03-2	Low	04/27/22	1:36	44.28	Y	Y	Y	Y	N	N	picked up only clams & crabs,no sediment	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB04-1	High	04/27/22	2:21	43.19	Y	Y	Y	Y	Y	Y	Dense Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB05-1	High	04/27/22	3:16	42.75	Y	Y	Y	Y	N	Y	Dense Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB05-2	High	04/27/22	3:25	42:65	Y	Y	Y	Y	N	Y	Dense Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB06-1	High	04/26/22	3:45	46.13	Y	Y	Y	Y	Y	Y	Fine sand, (5y4/1) Olive gray,no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB07-1	High	04/27/22	3:57	48.67	Y	Y	Y	Y	Y	Y	Dense Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB08A-1	Low	04/27/22	7:41	46.8	Y	Y	Y	Y	N	N	No sample	Trevin Dowdy	Rejected	Jaws open; rock & shell stuck in jaws
522LA22-GB08A-2	Low	04/27/22	7:52	47.3	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Trevin Dowdy	Accepted	
522LA22-GB08B-1	Low	04/27/22	8:06	45.9	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Trevin Dowdy	Accepted	
522LA22-GB08C-1	Low	04/27/22	8:19	46.5	Y	Y	Y	Y	N	Y	shells	Trevin Dowdy	Accepted	
522LA22-GB09-1	High	04/23/22	6:00	50.36	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB10-1	High	04/27/22	5:01	47.03	Y	Y	Y	Y	Y	Y	Fine sand, (5y4/1) Olive gray,no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB11-1	High	04/26/22	2:40	45.81	Y	Y	Y	Y	N	Y	Dense Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB11-2	High	04/26/22	2:51	45.69	Y	Y	Y	Y	N	Y	Dense Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB11-3	High	04/26/22	3:02	45.97	Y	Y	Y	Y	N	Y	Dense Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB12-1	High	04/27/22	4:29	52.95	Y	Y	Y	Y	Y	Y	Fine sand, (5y4/1) Olive gray,no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB13A-1	Low	04/27/22	6:21	47.55	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB13B-1	Low	04/27/22	6:36	48.34	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy	Accepted	
522LA22-GB13C-1	Low	04/27/22	6:51	48.58	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy	Accepted	
522LA22-GB14A-1	Low	04/23/22	4:55	55.48	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB14B-1	Low	04/23/22	5:09	55.34	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB14C-1	Low	04/23/22	5:20	55.24	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB15-1	High	04/26/22	1:35	45.55	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB15-2	High	04/26/22	1:46	35.81	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB15-3	High	04/26/22	1:58	48.12	Y	Y	Y	Y	N	Y	Dense Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522LA22-GB16-1	High	04/25/22	23:10	52.51	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray, no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB17-1	High	04/27/22	5:31	61.99	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB18-1	High	04/26/22	0:04	51.69	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray, no cohesion	Weston Clark/Olivia Shaw	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522LA22-GB19-1	High	04/26/22	0:59	57.05	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray,no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB20-1	High	04/23/22	4:24	58.02	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB21-1	High	04/23/22	3:00	63.44	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB22-1	High	04/23/22	3:54	60.89	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522LA22-GB23A-1	Low	06/11/22	22:25	44	Y	Y	Y	Y	N	N	Heavy Shell Material	Neil Smith/Jasmine Baloch	Accepted	
522LA22-GB23B-1	Low	06/11/22	22:45	44	Y	Y	Y	Y	N	N	Heavy Shell Material	Neil Smith/Jasmine Baloch	Rejected	No material
522LA22-GB23B-2	Low	06/11/22	23:14	44	Y	Y	Y	Y	N	N	Heavy Shell Material	Neil Smith/Jasmine Baloch	Rejected	No material
522LA22-GB23C-1	Low	06/11/22	23:30	44	Y	Y	Y	Y	N	N	Heavy Shell Material	Neil Smith/Jasmine Baloch	Rejected	No material
522LA22-GB24A-1	Low	06/12/22	21:40	44	Y	Y	Y	Y	N	Y	Fine Olive brown Sand	Brian Scherer/ Neil Smith	Accepted	
522LA22-GB24B-1	Low	06/12/22	21:59	44	Y	Y	Y	Y	N	N	Olive brown sand…Shell fragments	Brian Scherer/ Neil Smith	Accepted	
522LA22-GB24BC-1	Low	06/12/22	22:17	44	Y	Y	Y	Y	N	N	Fine Olive brown Sand, some shell fragments	Brian Scherer/ Neil Smith	Accepted	
522LA22-GB25A-1	Low	06/12/22	19:54	45	Y	Y	Y	Y	N	N	Fine Olive brown Sand silt and shell fragments	Brian Scherer/ Neil Smith	Accepted	
522LA22-GB25B-1	Low	06/12/22	20:23	45	Y	Y	Y	Y	N	N	Olive brown sand	Brian Scherer/ Neil Smith	Accepted	
522LA22-GB25C-1	Low	06/12/22	20:39	45	Y	Y	Y	Y	N	N	Fine Olive brown Sand, live quahog shell	Brian Scherer/ Neil Smith	Accepted	

Appendix B-2: Benthic Grab Sampling Field Log: MA OECC

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22-GB01-1	High	04/15/22	18:02	7	Y	Y	Y	Y	Y	Y	Fine sand gray N5 to dark gray (n3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB02A-1	Low	04/15/22	18:27	11	Y	Y	Y	Y	N	Y	Fine sand gray N5 to dark gray (n3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB02B-1	Low	04/15/22	18:33	11	Y	Y	Y	Y	N	Y	Fine sand gray N5 to dark gray (n3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB02C-1	Low	04/15/22	18:39	11	Y	Y	Y	Y	N	Y	Fine sand gray N5 to dark gray (n3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB03-1	High	04/15/22	18:57	12	N	N	Y	Y	N	N	No sample	Neil Smith/Jasmine Baloch	Rejected	No Recovery
522MA22-GB03-2	High	04/15/22	19:05	12	N	N	Y	Y	N	N	No sample	Neil Smith/Jasmine Baloch	Rejected	No Recovery
522MA22-GB03-3	High	04/15/22	19:11	12	Y	Y	Y	Y	Y	Y	Fine sand olive gray (5y4/1) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB04A-1	Low	04/15/22	19:29	13.5	Y	Y	Y	Y	N	Y	Fine sand pebbles olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB04B-1	Low	04/15/22	19:34	13.5	Y	Y	Y	Y	N	Y	Fine sand pebbles olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB04C-1	Low	04/16/22	19:42	13.5	Y	Y	Y	Y	N	Y	Fine sand pebbles olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB05-2	High	04/17/22	13:13	16.73	N	N	Y	Y	N	Y	Fine sand lots of stones and pebbles olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB06A-1	Low	04/17/22	16:30	15.66	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB06B-1	Low	04/17/22	16:43	15.76	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB06C-1	Low	04/17/22	16:51	15.85	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB07-1	High	04/17/22	17:05	16.72	Y	Y	Y	Y	Y	Y	Course sand and pebbles olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB08A-1	Low	04/17/22	19:45	18.51	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB08B-1	Low	04/17/22	19:54	18.41	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB08C-1	Low	04/17/22	20:01	18.45	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB09-1	High	04/17/22	9:13	20.52	Y	Y	Y	Y	Y	Y	Fine to Med sand (little Silty) olive gray 5yr4/1nocohesion some small shell fragments	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB10A-1	Low	04/15/22	16:47	22.68	N	N	Y	Y	N	N	No sample	Neil Smith/Jasmine Baloch	Rejected	2 drops both times had N sample due to cobbles jamming the box jaws from closing.
522MA22-GB10B-1	Low	04/15/22	16:58	23	Y	Y	Y	Y	N	Y	Fine sand with pebbles and cobbles olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB10C-1	Low	04/15/22	17:06	23	N	N	Y	Y	N	N	No sample	Neil Smith/Jasmine Baloch	Rejected	3 drops all times had N sample due to cobbles jamming the box jaws from closing.
522MA22-GB11-1	High	04/15/22	16:10	20.2	Y	Y	Y	Y	Y	Y	Fine sand olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion small Shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB12A-1	Low	04/15/22	14:26	21.6	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB12B-1	Low	04/15/22	14:43	21.6	Y	Y	Y	Y	N	Y	Fine sand with small stones (30mm) olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB12C-1	Low	04/15/22	14:56	21.7	Y	Y	Y	Y	N	Y	Fine sand with small stones (30mm) olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion small Shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB13-1	High	04/15/22	12:26	25	Y	Y	Y	Y	Y	Y	Med sand olive gray 5y4/1 to dark brown (10yr 3/3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB14A-1	Low	04/15/22	10:39	22.9	Y	Y	Y	Y	N	Y	large rocks shells Fine to Med sand olive gray (5y4/1) no cohesion	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB14B-1	Low	04/15/22	10:55	22.8	Y	Y	Y	Y	N	Y	large rocks shells Fine to Med sand olive gray (5y4/1) no cohesion	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB14C-1	Low	04/15/22	11:15	22.7	N	N	Y	Y	N	N	No sample	Weston Clark/Jasmine Baloch	Rejected	No Recovery after 2 drops
522MA22-GB15-1	High	04/15/22	9:31	27.1	Y	Y	Y	Y	Y	Y	Fine Silty sand olive gray 5y4/1 to dark gray (n3) no cohesion small shell fragments	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB16A-1	Low	04/15/22	7:18	35.8	Y	Y	Y	Y	N	Y	Fine to Med sand olive gray 5y 4/1 to Med dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB16B-1	Low	04/15/22	7:33	35.8	Y	Y	Y	Y	N	Y	Fine to Med sand dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Jasmine Baloch	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22-GB16C-1	Low	04/15/22	7:44	36.1	Y	Y	Y	Y	N	Y	Fine to Med sand olive gray 5y 4/1 to Med dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB17-1	High	04/10/22	16:34	41	Y	Y	Y	Y	Y	Y	Silty clay intermittent sand olive gray 5y2.5/2	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB17-2	High	04/11/22	19:18	37.6	Y	Y	Y	Y	Y	Y	Silty clay dispersed Fine sand olive gray 5y2.5/2 to dark gray 5gy4/1 Medium cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB18A-1	Low	04/15/22	6:09	41.4	Y	Y	Y	Y	N	Y	Fine Silty sand Olive gray 5yr4/1 to Med dark gray (n3) no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB18B-1	Low	04/15/22	6:26	41.3	Y	Y	Y	Y	N	Y	Fine Muddy Silty sand Olive gray 5yr4/1 to Med dark gray N3 Low cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB18C-1	Low	04/15/22	6:35	41.54	Y	Y	Y	Y	N	Y	Fine Muddy Silty sand Olive gray 5yr4/1 to Med dark gray N3 Low cohesion shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB19-1	High	04/10/22	18:49	40	Y	Y	N	N	Y	Y	Fine sand olive gray 5y2.5/2 small shell fragments	Neil Smith/Kristen Bachand	Accepted	Sample Accepted, but video grab failed to record.
522MA22-GB19-2	High	04/11/22	21:12	37.69	Y	Y	Y	Y	N	Y	Sand dispersed Fine silt olive gray 5y2.5/2 to dark gray 5gy4/1 Low cohesion small shell fragments	Neil Smith/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB19-3	High	04/11/22	21:31	37.78	Y	Y	Y	Y	N	Y	Sand dispersed Fine silt olive gray 5y2.5/2 to dark gray 5gy4/1 Low cohesion small shell fragments	Neil Smith/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB19-4	High	04/15/22	5:30	47.29	Y	Y	Y	Y	Y	Y	Fine to Med sand olive gray 5y 4/1 to Med dark gray (n3) no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB20A-1	Low	04/15/22	4:24	36.5	Y	Y	Y	Y	N	Y	Fine sand Olive gray 5yr4/2nocohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB20B-1	Low	04/15/22	4:39	36.67	Y	Y	Y	Y	N	Y	Fine Silty sand Olive gray 5yr4/2nocohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB20C-1	Low	04/15/22	4:54	36.49	Y	Y	Y	Y	N	Y	Fine sand Olive gray 5yr4/2 to dark gray (n3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB21-1	High	04/11/22	22:11	36.2	Y	Y	Y	Y	Y	Y	Sandy silt (jellyfish) Dark gray 5gy 4/1 with dispersed olive gray 5y2.5/2 Low cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB22A-1	Low	04/14/22	5:26	36.12	Y	Y	Y	Y	N	Y	Course sand with rocks and pebbles gray (n3) no cohesion Med shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB22B-1	Low	04/14/22	5:39	35.32	Y	Y	Y	Y	N	Y	Silty sand rocks and pebbles Dark gray N3 very Low cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB22C-1	Low	04/14/22	5:53	35.64	Y	Y	Y	Y	N	Y	Med to Course sand with rocks and pebbles gray N5 to dark gray (n3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB23-1	High	04/11/22	22:49	28.6	Y	Y	Y	Y	Y	Y	Course sand with intermittent pebbles brown 10yr6/3 specs of (10yr4/3) no cohesion shell fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB24A-1	Low	04/14/22	3:34	30.08	Y	Y	Y	Y	N	Y	Med to Course sand brown 10yr6/3 to dark brown (10yr 3/3) no cohesion small to Med shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB24B-1	Low	04/14/22	3:57	30.08	Y	Y	Y	Y	N	Y	Med to Course sand with rocks and pebbles dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB24C-1	Low	04/14/22	4:48	30.07	Y	Y	Y	Y	N	Y	Med to Course sand with rocks and pebbles dark brown (10yr 3/3) no cohesion small to Med shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB25-1	High	04/11/22	23:25	29	Y	Y	Y	Y	N	Y	Fine sand small pebbles (10-20 mm) uniform brown (10yr6/3) no cohesion small shell fragments one sand dollar (20mm)	Neil Smith/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB25-2	High	04/11/22	23:48	32.9	Y	Y	Y	Y	N	Y	Fine sand single stone (40 mm) Brown (10yr6/3) no cohesion	Neil Smith/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB25-3	High	04/12/22	0:16	30.75	Y	Y	Y	Y	N	Y	Fine sand Brown (10yr6/3) no cohesion	Weston Clark/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB25-4	High	04/14/22	2:37	30.52	Y	Y	Y	Y	N	Y	Med to Fine sand dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB26A-1	Low	04/14/22	1:25	31.86	Y	Y	Y	Y	N	Y	Med to Fine sand brown 10yr6/3 to dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB26B-1	Low	04/14/22	1:52	31.86	Y	Y	Y	Y	N	Y	Med to Fine sand dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB26C-1	Low	04/14/22	2:09	31.31	Y	Y	Y	Y	N	Y	Med to Fine sand dark brown (10yr 3/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB27-1	High	04/12/22	1:46	29	Y	Y	Y	Y	Y	Y	Course sand brown (10yr6/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB27-2	High	04/12/22	1:46	30.69	Y	Y	Y	Y	N	Y	Course sand brown (10yr6/3) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Rejected	
522MA22-GB28A-1	Low	04/14/22	0:10	35.93	Y	Y	Y	Y	N	Y	Fine sand Dark brown 10y3/3 to olive gray (5y4/1) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB28B-1	Low	04/14/22	0:32	35.39	Y	Y	Y	Y	N	Y	Fine sand Dark brown 10y3/3 to olive gray (5y4/1) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB28C-1	Low	04/14/22	0:52	35.51	Y	Y	Y	Y	N	Y	Fine sand olive gray (5y4/1) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB29-1	High	04/12/22	3:03	35.55	Y	Y	Y	Y	Y	Y	Med to Course sand brown to dark brown 10yr3/3 to (10yr 3/6) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22-GB29-2	High	04/12/22	3:35	35.52	Y	Y	Y	Y	N	Y	Med to Course sand brown to dark brown 10yr3/3 to (10yr 3/6) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB29-3	High	04/12/22	4:03	35.65	Y	Y	Y	Y	N	Y	Med to Course sand brown to dark brown 10yr3/3 to (10yr 3/6) no cohesion small shell fragments	Weston Clark/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB29-4	High	04/13/22	23:38	34.69	Y	Y	Y	Y	Y	Y	Course sand Dark brown (10yr 3/3) no cohesion small shells fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB30A-1	Low	04/13/22	22:30	36.01	Y	Y	Y	Y	N	Y	Course sand Dark brown (10yr 3/3) no cohesion small shells fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB30B-1	Low	04/13/22	22:43	36.13	Y	Y	Y	Y	N	Y	Course sand Dark brown (10yr 3/3) no cohesion small shells fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB30C-1	Low	04/13/22	22:54	36	Y	Y	Y	Y	N	Y	Course sand Dark brown (10yr 3/3) no cohesion small shells fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB31-1	High	04/12/22	4:51	38.07	Y	Y	Y	Y	N	Y	Coarse sand with pebbles dark brown (10yr 3/3) no cohesion	Weston Clark/Kristen Bachand	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB31-2	High	04/12/22	5:25	37.99	Y	Y	Y	Y	Y	Y	Coarse sand with pebbles dark brown (10yr 3/3) no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB32A-1	Low	04/13/22	21:27	38	Y	Y	Y	Y	N	Y	Course sand Dark brown (10yr 3/3) no cohesion uniform in color and texture small whole shells and fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB32B-1	Low	04/13/22	21:44	38.15	Y	Y	Y	Y	N	Y	Course sand Dark brown (10yr 3/3) no cohesion uniform in color and texture small whole shells and fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB32C-1	Low	04/13/22	21:56	38	Y	Y	Y	Y	N	Y	Course sand with pebbles Dark brown (10yr 3/3) no cohesion uniform in color and texture small whole shells and fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB33-1	High	04/12/22	6:15	39.65	Y	Y	Y	Y	Y	Y	Med to Course sand brown to dark brown 10yr3/3 to 10yr3/6nocohesion pebbles and shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB34A-1	Low	04/13/22	14:35	42.06	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB34B-1	Low	04/13/22	14:52	41.89	Y	Y	Y	Y	N	Y	Fine sand bits of dark gray n3 mostly olive gray (5y4/1) no cohesion small amount of shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB34C-1	Low	04/13/22	15:04	41.99	Y	Y	Y	Y	N	Y	Fine Sand with little silt olive gray 5y4/1 with patches of dark gray (n3) no cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB35-1	High	04/12/22	7:06	40.59	Y	Y	Y	Y	N	Y	Silty Med to Fine sand olive gray to dark gray 5g6/1 to N3 very Low cohesion	Weston Clark/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB35-2	High	04/12/22	7:29	40.76	Y	Y	Y	Y	Y	Y	Silty Med to Fine sand olive gray to dark gray 5g6/1 to N3 very Low cohesion	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB36A-1	Low	04/14/22	21:27	37.79	Y	Y	Y	Y	N	Y	Med sand olive gray 5y4/1 with dark brown (10yr4/3) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB36B-1	Low	04/14/22	21:41	37.64	Y	Y	Y	Y	N	Y	Med sand olive gray 5y4/1 with dark brown (10yr4/3) no cohesion small shell fragments 1 small fish	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB36C-1	Low	04/14/22	21:53	40.97	Y	Y	Y	Y	N	Y	Med sand olive gray (5y4/1) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB37-1	High	04/12/22	10:43	37.66	Y	Y	Y	Y	Y	Y	Course to Medium sand olive gray (5y4/1) no cohesion small shell fragments	Weston Clark/Jasmine Baloch	Accepted	
522MA22-GB38A-1	Low	04/14/22	14:48	35.09	Y	Y	Y	Y	N	Y	Course sand Dark brown 10yr 5/3 to brown (10yr6/3) no cohesion lots of shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB38B-1	Low	04/14/22	15:01	36.2	Y	Y	Y	Y	N	Y	Course sand Dark brown 10yr 4/3 to brown (10yr 3/3) no cohesion lots of shell fragments one live clam (75mm)	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB38C-1	Low	04/14/22	15:16	36.4	Y	Y	Y	Y	N	Y	Course sand Dark brown 10yr 4/3 to brown (10yr 3/3) no cohesion lots of shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB39-1	High	04/12/22	11:48	36.33	Y	Y	Y	Y	N	Y	Med to Course sand olive gray to dark gray 5y4/1 to (10yr 3/3) no cohesion small to Medium shell fragments	Weston Clark/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB39-2	High	04/12/22	12:27	36	Y	Y	Y	Y	N	Y	Med sand brown 10yr6/3 to olive gray (5y4/1) no cohesion	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB39-3	High	04/12/22	12:41	36	Y	Y	Y	Y	N	Y	Med sand brown 10yr6/3 to olive gray (5y4/1) no cohesion	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB39-4	High	04/13/22	6:40	36.15	Y	Y	Y	Y	Y	Y	Fine sand bits of dark gray n3 mostly olive gray (5y4/1) no cohesion small amount of shell fragments	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB40A-1	Low	04/13/22	5:00	37.29	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB40B-1	Low	04/13/22	5:33	37.76	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB40C-1	Low	04/13/22	6:00	37.85	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	Reshot just for video (522GB22-GB40C-2)
522MA22-GB41-1	High	04/12/22	13:47	36.2	Y	Y	Y	Y	Y	Y	Med sand brown 10yr5/3 uniform cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB42A-1	Low	04/13/22	2:55	33.96	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB42B-1	Low	04/13/22	3:31	33.96	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22-GB42C-1	Low	04/13/22	4:04	34.09	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB43-1	High	04/12/22	14:52	33.5	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small bits of shell	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB43-2	High	04/12/22	15:16	33.8	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small bits of shell	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB43-3	High	04/12/22	15:36	33.7	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small bits of shell	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB43-4	High	04/13/22	2:07	32.92	Y	Y	Y	Y	Y	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB44A-1	Low	04/13/22	0:44	33.54	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB44B-1	Low	04/13/22	1:08	30.82	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB44C-1	Low	04/13/22	1:36	31.62	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y4/1 throughout sample no cohesion	Weston Clark/Kristen Bachand	Accepted	
522MA22-GB45-1	High	04/12/22	16:42	33.54	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small bits of shell sand dollar (45 mm)	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB45-2	High	04/12/22	17:12	33.18	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small bits of shell	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB45-3	High	04/12/22	17:27	33.69	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small bits of shell	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB45-4	High	04/12/22	23:52	29.61	Y	Y	Y	Y	Y	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB46A-1	Low	04/12/22	22:34	30.44	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB46B-1	Low	04/12/22	22:48	30.39	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB46C-1	Low	04/12/22	23:07	29.99	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB47-1	High	04/12/22	18:20	33.9	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB47-2	High	04/12/22	18:39	34.1	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB47-3	High	04/12/22	18:53	34	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Rejected	Insufficient infauna sample; sufficient GSA
522MA22-GB47-x1	High	04/12/22	20:00	33.2	Y	Y	Y	Y	Y	Y	Fine sand olive gray 5y2.5/2 to (5y4/1) no cohesion	Neil Smith/Kristen Bachand	Accepted	Switched from Van Veen to 0.5 m Box Core
522MA22-GB48A-1	Low	04/12/22	20:58	36.77	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB48B-1	Low	04/12/22	21:17	36.48	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB48C-1	Low	04/12/22	21:33	36.53	Y	Y	Y	Y	N	Y	Fine sand olive gray 5y2.5/2 throughout sample no cohesion small shell fragments	Neil Smith/Kristen Bachand	Accepted	
522MA22-GB49A-1	Low	06/07/22	21:04	36	Y	Y	Y	Y	Y	Y	Silty fine sand, Olive gray (5y4/3), no cohesion tube worms	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB49B-1	Low	06/07/22	21:16	36	Y	Y	Y	Y	N	Y	Silty fine sand, Olive gray (5y4/3), no cohesion tube worms	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB49C-1	Low	06/07/22	21:26	36	Y	Y	Y	Y	N	Y	Silty fine sand, Olive gray (5y4/3), no cohesion tube worms	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB50A-1	Low	06/11/22	3:08	31	Y	Y	Y	Y	N	N	Clay/ fine silt sand	Brian Scherer/ Neil Smith	Accepted	
522MA22-GB50B-1	Low	06/11/22	3:24	31	Y	Y	Y	Y	N	N	Clay/ fine silt sand	Brian Scherer/ Neil Smith	Accepted	
522MA22-GB50C-1	Low	06/11/22	3:35	31	Y	Y	Y	Y	N	N	Clay/ fine silt sand	Brian Scherer/ Neil Smith	Accepted	
522MA22-GB51A-1	Low	06/07/22	14:07	34	Y	Y	N	N	Y	Y	Med sand olive gray (5y4/2) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	GoPro did not record
522MA22-GB51B-1	Low	06/07/22	14:21	34	Y	Y	Y	Y	N	Y	Med sand olive gray (5y4/2) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB51C-1	Low	06/07/22	14:34	34	Y	Y	Y	Y	N	Y	Med sand olive gray (5y4/2) no cohesion small shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB52A-1	Low	06/07/22	12:36	36	Y	Y	Y	Y	Y	Y	Silty clay dispersed Fine sand olive gray (5y4/3) to Low cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB52B-1	Low	06/07/22	12:58	36	Y	Y	Y	Y	N	Y	Silty clay dispersed Fine sand olive gray (5y4/3) to Low cohesion	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB52C-1	Low	06/07/22	13:12	36	Y	Y	Y	Y	N	Y	Silty clay dispersed Fine sand olive gray (5y4/3) to Low cohesion	Neil Smith/Jasmine Baloch	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22-GB53A-1	Low	06/07/22	7:46	35	Y	Y	Y	Y	N	Y	Silty Med to Fine sand olive gray to dark gray (10yr 4/1)Med cohesion	Brian Scherer/ Peiter	Accepted	
522MA22-GB53B-1	Low	06/07/22	7:58	35	Y	Y	Y	Y	N	Y	Silty clay intermittent sand olive gray to dark gray (5y 4/2) med cohesion sand dollars	Brian Scherer/ Peiter	Accepted	
522MA22-GB53C-1	Low	06/07/22	8:10	35	Y	Y	Y	Y	N	Y	Silty clay intermittent sand olive gray to dark gray (5y 4/3) low cohesion	Brian Scherer/ Peiter	Accepted	
522MA22-GB54A-1	Low	06/06/22	23:30	29	Y	Y	Y	Y	N	Y	Medium to fine sand red brown (10yr 3/4) No cohesion with sand dollars small sheel fragments and tube worms	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB54B-1	Low	06/06/22	23:42	29	Y	Y	Y	Y	N	Y	Medium to fine sand red brown (10yr 3/4) No cohesion with sand dollars small sheel fragments and tube worms	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB54C-1	Low	06/06/22	23:52	29	Y	Y	Y	Y	N	Y	Medium to fine sand red brown (10yr 3/4) No cohesion with sand dollars small sheel fragments and tube worms	Neil Smith/Jasmine Baloch	Accepted	
522MA22-GB55A-1	Low	06/06/22	8:00	16	Y	Y	Y	Y	N	N	None	Brian Scherer/ Peiter	Rejected	No Sample
522MA22-GB55A-2	Low	06/06/22	8:08	16	Y	Y	Y	Y	Y	Y	Fine-medium sand pebbles, olive brown (10yr 3/4), no cohesion, shell Fragments	Brian Scherer/ Peiter	Accepted	
522MA22-GB55B-1	Low	06/06/22	8:23	16	Y	Y	Y	Y	N	Y	Fine-medium sand gravel and pebbles, grey brown (2.5yr 3/4), no cohesion	Brian Scherer/ Peiter	Accepted	
522MA22-GB55C-1	Low	06/06/22	8:33	16	Y	Y	Y	Y	N	Y	Fine-medium sand gravel and pebbles, grey brown (2.5yr 3/4), no cohesion	Brian Scherer/ Peiter	Accepted	
522MA22-GB56A-1	Low	06/06/22	9:37	14	Y	Y	Y	Y	N	N	2 rocks	Brian Scherer/ Peiter	Rejected	NO SAMPLE
522MA22-GB56B-2	Low	06/06/22	9:55	14	Y	Y	Y	Y	N	N	Empty	Brian Scherer/ Peiter	Rejected	NO SAMPLE
522MA22-GB56C-3	Low	06/06/22	10:03	14	N	N	Y	Y	N	N	Empty	Brian Scherer/ Peiter	Rejected	NO SAMPLE
522MA22-GB57A-1	Low	06/11/22	4:46	35	Y	Y	Y	Y	Y	Y	Clay/ fine silt sand	n Scherer/ Neil Smith/Jasmine Ba	Accepted	
522MA22-GB57B-1	Low	06/11/22	5:03	35	Y	Y	Y	Y	N	N	Clay/ fine silt sand	Brian Scherer/ Neil Smith	Accepted	
522MA22-GB57C-1	Low	06/11/22	5:16	35	Y	Y	Y	Y	N	N	Clay/ fine silt sand	Brian Scherer/ Neil Smith	Accepted	

Appendix B-3: Benthic Grab Sampling Field Log: CT OECC

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-GB01A-1	Low	04/26/22	5:59	62.45	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1)Olive gray to Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB01B-1	Low	04/26/22	6:11	65.72	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray to dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB01C-1	Low	04/26/22	6:23	65.6	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1)Olive gray to Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB02-1	High	04/21/22	23:39	69.51	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB03A-1	Low	04/23/22	1:05	67.71	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB03B-1	Low	04/23/22	1:23	68.02	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB03C-1	Low	04/23/22	1:38	67.85	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB04-1	High	04/22/22	0:51	69.03	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB05A-1	Low	04/22/22	23:34	69.68	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB05B-1	Low	04/22/22	23:51	69.22	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB05C-1	Low	04/23/22	0:08	69.16	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB06-1	High	04/22/22	2:01	69.49	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB07A-1	Low	04/22/22	20:46	67:71	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB07B-1	Low	04/22/22	21:02	68.19	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB07C-1	Low	04/22/22	21:21	68	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample
522CT22-GB07C-2	Low	04/22/22	21:29	68	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB08-1	High	04/22/22	2:55	68.91	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB09A-1	Low	04/22/22	19:16	69.44	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB09B-1	Low	04/22/22	19:34	69.32	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB09C-1	Low	04/22/22	19:56	69.31	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB10-1	High	04/22/22	3:44	70.31	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB11A-1	Low	04/22/22	5:14	68.35	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB11B-1	Low	04/22/22	5:31	68.09	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB11C-1	Low	04/22/22	5:46	68.25	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB12-1	High	04/22/22	4:39	66.44	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB13A-1	Low	04/25/22	18:21	63.64	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray, no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB13B-1	Low	04/25/22	18:33	64.57	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray, no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB13C-1	Low	04/25/22	18:45	59.82	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray, no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB14-1	High	04/23/22	18:45	62.55	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB15A-1	Low	04/25/22	4:55	61.24	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB15B-1	Low	04/25/22	5:08	60.48	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB15C-1	Low	04/25/22	5:20	60.44	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB16-1	High	04/23/22	19:45	71.33	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-GB17A-1	Low	04/25/22	3:50	64.15	Y	Y	Y	Y	N	Y	Fine-Med sand, dark brown (10yr 3/3), no cohesion.	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB17B-1	Low	04/25/22	4:01	60.78	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB17C-1	Low	04/25/22	4:12	60.49	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB18-1	High	04/23/22	20:32	60.98	Y	Y	Y	Y	Y	Y	Med-Coarse Sand, In between (10yr 6/3) Brown & Dark Brown (10yr 3/3)no cohesion, Small Pebble & shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB19A-1	Low	04/25/22	2:22	60.73	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB19B-1	Low	04/25/22	2:36	60.92	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB19C-1	Low	04/25/22	2:48	60.78	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB20-1	High	04/23/22	21:27	61.17	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB21A-1	Low	04/25/22	1:06	59.81	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), Cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB21B-1	Low	04/25/22	1:17	60.04	Y	Y	Y	Y	N	Y	Med sand, (10yr 6/3) brown to dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB21C-1	Low	04/25/22	1:30	60.16	Y	Y	Y	Y	N	Y	Med sand, (10yr 6/3) brown to dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB22-1	High	04/23/22	22:20	54.5	Y	Y	Y	Y	Y	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB23A-1	Low	04/24/22	23:50	61.5	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB23B-1	Low	04/25/22	0:05	61.46	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB23C-1	Low	04/25/22	0:15	61.39	Y	Y	Y	Y	N	Y	Muddy/Silty Fine sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB24-1	High	04/23/22	23:14	57.76	Y	Y	Y	Y	Y	Y	Med-Coarse Sand, (5y4/1) Olive Grey/ To dark Brown (10yr 3/3), no cohesion, Small Pebbles/Small shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB25A-1	Low	04/24/22	22:42	54.26	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB25B-1	Low	04/24/22	22:54	54.28	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB25C-1	Low	04/24/22	23:06	54.46	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB26-1	High	04/24/22	0:12	55.27	N	N	Y	Y	N	Y	Med-Coarse Sand, (5y4/1) Olive Grey/ To dark Brown (10yr 3/3), no cohesion, Small Pebbles/Small shell Fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB26-2	High	04/24/22	0:20	53.15	Y	Y	Y	Y	N	Y	Med-Coarse Sand, (5y4/1) Olive Grey/ To dark Brown (10yr 3/3), no cohesion, Small Pebbles/Small shell Fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB26-3	High	04/24/22	0:30	55.41	Y	Y	Y	Y	Y	Y	Med-Coarse Sand, (5y4/1) Olive Grey/ To dark Brown (10yr 3/3), no cohesion, Small Pebbles/Small shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB27A-1	Low	04/24/22	21:24	46.83	Y	Y	Y	Y	N	Y	Fine sand, olive gray (5y4/1),no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB27B-1	Low	04/24/22	21:35	46.79	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion, tiny shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB27C-1	Low	04/24/22	21:45	46.89	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion, tiny shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB28-1	High	04/24/22	1:25	44.3	Y	Y	Y	Y	Y	Y	Med-Coarse Sand, Dark Brown (10yr 3/3), no cohesion, Small Pebbles/Small Shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB29A-1	Low	04/24/22	20:18	43.06	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB29B-1	Low	04/24/22	20:28	43.51	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3), no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB29C-1	Low	04/24/22	20:41	43.07	Y	Y	Y	Y	N	Y	Fine-Med Sand, Dark Brown (10yr 3/3) to Brown (10yr 6/3),no cohesion, small-Med shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB30-1	High	04/24/22	2:19	41.64	Y	Y	Y	Y	Y	Y	Med Sand/Slight Coarse, Dark Brown (10yr 3/3), no cohesion, Small-Med Shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB31A-1	Low	04/24/22	19:04	33	Y	Y	Y	Y	N	Y	Silty/ fine sand, (5y4/1) Olive gray/very slight Dark Grey (n3), no cohesion, Lots of sand dollars/Small shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB31B-1	Low	04/24/22	19:14	34.13	Y	Y	Y	Y	N	Y	Fine sand, Olive gray (5y4/1)/Slight Dark Grey (n3), no cohesion, Sand dollars Galore/Small shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB31C-1	Low	04/24/22	19:31	34.08	Y	Y	Y	Y	N	Y	Fine sand, Olive gray (5y4/1)/Slight Dark Grey (n3), no cohesion, Sand dollars Galore/Small shell Fragments	Weston Clark/Olivia Shaw	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-GB32-1	High	04/24/22	3:12	17.63	Y	Y	Y	Y	Y	Y	Med-Coarse sand, Brown (10yr 6/3),no cohesion, Small Shell Fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB33A-1	Low	04/24/22	3:59	14.93	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom
522CT22-GB33A-2	Low	04/24/22	4:09	17.46	Y	Y	Y	Y	N	Y	Sand & Large Rocks, Brown (10yr 6/3), no cohesion, Rocks & More Rocks	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB33B-1	Low	04/24/22	4:25	17.38	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom
522CT22-GB33B-2	Low	04/24/22	4:33	17.4	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom
522CT22-GB33B-3	Low	04/24/22	4:40	11.88	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom
522CT22-GB33C-1	Low	04/24/22	4:54	10.42	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom
522CT22-GB33C-2	Low	04/24/22	5:00	17.35	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom
522CT22-GB33C-3	Low	04/24/22	5:08	17.55	N	N	Y	Y	N	N	No sample	Weston Clark/Olivia Shaw	Rejected	Insufficient sample/ Rocks on bottom. Jaws open
522CT22-GB34-1	High	04/29/22	19:14	19	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, Rocks & pebbles, Shells & snails	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB34-2	High	05/03/22	1:17	19.49	Y	Y	Y	Y	N	Y	Med sand, in between brown (10yr 6/3) & dark brown (10yr 3/3) w/ some dark gray (n3), no cohesion, many rocks & pebbles w/ shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB34-3	High	05/03/22	1:29	20.03	Y	Y	Y	Y	N	Y	Med sand, in between brown (10yr 6/3) & dark brown (10yr 3/3) w/ some dark gray (n3), no cohesion, many rocks & pebbles w/ shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB35A-1	Low	04/29/22	17:27	22.7	Y	Y	Y	Y	N	Y	Silty sand, shells, gravel, Slight dark brown (10yr 3/3), olive gray (5y4/1), Slight dark gray (n3), no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB35B-1	Low	04/29/22	17:39	22.8	Y	Y	Y	Y	N	Y	Silty sand, gravel, shells, dark gray (n3), Slight olive gray (5y4/1),no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB35C-1	Low	04/29/22	17:49	22.66	Y	Y	Y	Y	N	N	rock in jaws	Trevin Dowdy/Addison	Rejected	
522CT22-GB35C-2	Low	04/29/22	18:00	22.69	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), rocks, pebbles, Med shell fragments	Trevin Dowdy/Addison	Accepted	
522CT22-GB36-1	High	04/29/22	16:59	23	Y	Y	Y	Y	Y	Y	Med sand, dark brown (10yr 3/3), no cohesion, Med shell fragments	Trevin Dowdy/Addison	Accepted	
522CT22-GB37A-1	Low	04/29/22	16:10	23.4	Y	Y	Y	Y	N	N	Nothing in grab	Trevin Dowdy/Addison	Rejected	
522CT22-GB37B-1	Low	04/29/22	16:20	23.2	Y	Y	Y	Y	N	N	Nothing in grab, but 1 big rock	Trevin Dowdy/Addison	Rejected	
522CT22-GB37C-1	Low	04/29/22	16:34	24.2	Y	Y	Y	Y	N	N	1 rock and sponge	Trevin Dowdy/Addison	Rejected	
522CT22-GB38-1	High	04/29/22	15:47	18.7	Y	Y	Y	Y	Y	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB39A-1	Low	04/29/22	14:53	32.2	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB39B-1	Low	04/29/22	15:06	32.9	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB39C-1	Low	04/29/22	15:18	36.2	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB40-1	High	04/29/22	14:24	33.2	Y	Y	Y	Y	Y	Y	Silty sand & shells, Dark gray (N3), Olive gray (5y4/1), Slight dark Brown (10yr 3/3), no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB41A-1	Low	04/29/22	12:40	30.3	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB41B-1	Low	04/29/22	13:14	30.2	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB41C-1	Low	04/29/22	13:30	33.3	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) Olive gray/Slight dark gray (n3) no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB42-1	High	04/27/22	19:50	22	Y	Y	Y	Y	Y	Y	Fine-Med sand, (10yr 3/3) Dark brown to Slight dark gray (n3), no cohesion, Med-small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB43A-1	Low	04/27/22	20:26	30.43	Y	Y	Y	Y	N	Y	Fine-Med sand, dark gray (n3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB43B-1	Low	04/27/22	20:36	29.92	Y	Y	Y	Y	N	Y	Fine-Med sand, dark gray (n3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB43C-1	Low	04/27/22	20:47	29.95	Y	Y	Y	Y	N	Y	Fine-Med sand, dark gray (n3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB44-1	High	04/27/22	21:12	32.85	Y	Y	Y	Y	N	Y	Med sand, dark gray (n3), no cohesion, Lots of rocks, pebbles & shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-GB44-2	High	04/27/22	21:21	32.63	Y	Y	Y	Y	Y	Y	Med sand, (5y4/1) olive gray to dark gray (n3), no cohesion, pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB45A-1	Low	04/27/22	21:51	45.1	Y	Y	Y	Y	N	Y	Med-coarse sand, dark gray (n3), no cohesion, Med rocks/ pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB45B-1	Low	04/27/22	22:01	38.65	Y	Y	Y	Y	N	Y	Med-coarse sand, dark gray (n3), no cohesion, Med rocks/ pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB45C-1	Low	04/27/22	22:10	37.03	Y	Y	Y	Y	N	Y	Med-coarse sand, dark gray (n3), no cohesion, Med rocks/ pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB46-1	High	04/30/22	18:50	31.95	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, slipper shells & shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB46-2	High	04/30/22	19:00	32.05	Y	Y	Y	Y	N	N	jaws open, Not enough for sample	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB47A-1	Low	04/30/22	19:20	31.32	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, Med-large rocks & shells	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB47B-1	Low	04/30/22	19:31	31.28	Y	Y	Y	Y	N	Y	jaws open, only Med rocks	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB47C-1	Low	04/30/22	19:42	31.3	Y	Y	Y	Y	N	N	jaws open, 2 big rocks, (did Not take sample)	Weston Clark/Olivia Shaw	Rejected	
522CT22-GB48-1	High	04/30/22	20:04	27.32	Y	Y	Y	Y	Y	Y	Med-Coarse Sand, Dark Brown (10yr 3/3), no cohesion, 50% shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB49A-1	Low	05/02/22	8:21	11.5	Y	Y	Y	Y	N	N	No sample	Trevin Dowdy/Addison	Rejected	Box core empty
522CT22-GB49B-1	Low	05/02/22	8:32	11.5	Y	Y	Y	Y	N	N	No sample	Trevin Dowdy/Addison	Rejected	Box core empty
522CT22-GB49C-1	Low	05/02/22	8:37	11.5	Y	Y	Y	Y	N	N	No sample	Trevin Dowdy/Addison	Rejected	Box core empty
522CT22-GB50-1	High	04/30/22	20:35	53.17	Y	Y	Y	Y	Y	Y	Med sand, dark brown (10yr 3/3), no cohesion, lots of shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB51A-1	Low	05/02/22	9:04	67	Y	Y	Y	Y	N	Y	rock/gravel, shell, olive gray (5y4/1), Slight cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB51B-1	Low	05/02/22	9:18	67	Y	Y	Y	Y	N	N	rock in jaws/no sample	Trevin Dowdy/Addison	Rejected	
522CT22-GB51B-2	Low	05/02/22	9:26	67	Y	Y	Y	Y	N	Y	rock/gravel, shell mix, olive gray (5y4/1), Slight cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB51C-1	Low	05/02/22	9:33	67	Y	Y	Y	Y	N	Y	min shell & pebble mix, olive gray (5y4/1),no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB52-1	High	05/01/22	4:16	88.32	Y	Y	Y	Y	N	Y	Fine-Med sand, dark brown (10yr 3/3) to dark gray (n3), no cohesion, many slipper & shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB52-2	High	05/02/22	10:17	78.4	Y	Y	Y	Y	N	Y	Silty sand, gravel/rock shell mix, Slight olive gray (5y4/1), dark gray (n3), Slight cohesion (N infauna sample)	Trevin Dowdy/Addison	Accepted	
522CT22-GB53A-1	Low	05/02/22	2:07	77.57	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, Med-small rocks, pebbles & shells	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB53B-1	Low	05/02/22	10:50	77	Y	Y	Y	Y	N	N	rocks in jaws,no sample	Trevin Dowdy/Addison	Rejected	
522CT22-GB53B-2	Low	05/02/22	11:26	77	Y	Y	Y	Y	N	Y	sand Slight mud/Slight rock/pebbles, olive gray (5y4/1), Slight cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB53C-1	Low	05/02/22	11:38	77	Y	Y	Y	Y	N	Y	sand gravel/rock/pebbles, dark gray (n3), dark brown (10yr 3/3), no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB54-1	High	05/02/22	1:36	86.16	Y	Y	Y	Y	Y	Y	Med sand, dark brown (10yr 3/3), no cohesion, lots of rocks, pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB55A-1	Low	05/02/22	0:43	75.48	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB55B-1	Low	05/02/22	0:54	75.33	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB55C-1	Low	05/02/22	1:07	75.32	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, pebbles & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB56-1	High	05/01/22	20:59	71.07	Y	Y	Y	Y	N	Y	Med-coarse sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, small rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB56-2	High	05/01/22	21:17	74.31	Y	Y	Y	Y	N	Y	Med-coarse sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, small rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB57A-1	Low	05/01/22	20:00	59.86	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, small rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB57B-1	Low	05/01/22	20:13	59.97	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, small rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB57C-1	Low	05/01/22	20:24	60.02	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, small rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-GB58-1	High	05/01/22	19:29	57.17	Y	Y	Y	Y	Y	Y	Med sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, pebbles/ shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB59A-1	Low	05/01/22	2:30	51.25	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/Slight dark gray (n3), no cohesion, slipper shells & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB59B-1	Low	05/01/22	19:00	60.63	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, Med rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB59C-1	Low	05/01/22	19:12	51.21	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/ Slight dark gray (n3), no cohesion, Med rocks & pebbles/ shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB60-1	High	05/01/22	1:54	46.79	Y	Y	Y	Y	Y	Y	Med sand, dark brown (10yr 3/3)/Slight dark gray (n3), no cohesion, slipper shells & shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB61A-1	Low	05/01/22	0:37	35.77	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB61B-1	Low	05/01/22	0:45	35.87	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/Slight dark gray (n3), no cohesion, shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB61C-1	Low	05/01/22	0:55	35.73	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3)/Slight dark gray (n3), no cohesion, shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB62-1	High	04/30/22	23:59	23.9	Y	Y	Y	Y	Y	Y	Med sand, dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB63A-1	Low	04/30/22	23:03	19.4	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB63B-1	Low	04/30/22	23:13	21.88	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB63C-1	Low	04/30/22	23:23	21.89	Y	Y	Y	Y	N	Y	Med sand, dark brown (10yr 3/3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB64-1	High	04/30/22	22:45	16	Y	Y	Y	Y	Y	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion, shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB65A-1	Low	05/02/22	14:33	7.2	Y	Y	Y	Y	N	Y	sandy mud, olive gray (5y4/1), Slight dark gray (n3)	Trevin Dowdy/Addison	Accepted	
522CT22-GB65B-1	Low	05/02/22	14:57	7.2	Y	Y	Y	Y	N	Y	sandy mud, olive gray (5y4/1), Slight dark gray (n3), High cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB65C-1	Low	05/02/22	15:18	7.2	Y	Y	Y	Y	N	Y	sandy mud, olive gray (5y4/1), Slight dark gray (n3), High cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB66-1	High	05/02/22	13:49	10	Y	Y	Y	Y	Y	Y	thick mud, olive gray (5y4/1), dark gray (n3), High cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB69A-1	Low	04/30/22	8:09	81.4	Y	Y	Y	Y	N	Y	rocks with Slight vegetation	Trevin Dowdy/Addison	Accepted	
522CT22-GB69B-1	Low	05/02/22	19:38	88.2	N	N	Y	Y	N	N	rocks & 1 sponge	Weston Clark/Olivia Shaw	Rejected	
522CT22-GB69C-1	Low	05/02/22	19:44	87.48	Y	Y	Y	Y	N	Y	Fine-Med sand, dark brown (10yr 3/3)/Slight dark gray (n3), no cohesion, rocks and sponge	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB70-1	High	04/30/22	7:10	80	Y	Y	Y	Y	N	N	No sample	Trevin Dowdy/Addison	Rejected	Box core empty
522CT22-GB70-2	High	04/30/22	7:24	80	Y	Y	Y	Y	N	N	No sample	Trevin Dowdy/Addison	Rejected	Insufficient sample, Jaws open
522CT22-GB71A-1	Low	04/30/22	6:14	40.4	Y	Y	Y	Y	N	Y	Silty sand, Slight shell & light pebble, (5y4/1) olive gray & (n3)dark gray,no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB71B-1	Low	04/30/22	6:31	40.7	Y	Y	Y	Y	N	Y	Silty sand, Slight shell & light pebble, (5y4/1) olive gray & (n3)dark gray,no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB71C	Low	04/30/22	6:48	40.7	Y	Y	Y	Y	N	Y	Silty sand, Slight shell & light pebble, (5y4/1) olive gray & (n3)dark gray,no cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB72-1	High	04/30/22	5:16	24.65	Y	Y	Y	Y	N	Y	Fine sand, (10yr 3/3) Dark brown/Slight dark gray (n3), no cohesion, shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB72-2	High	04/30/22	5:29	24.19	Y	Y	Y	Y	N	Y	Fine sand, (10yr 3/3) Dark brown/Slight dark gray (n3), no cohesion, shell fragments	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB73A-1	Low	04/30/22	4:03	21.41	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion, shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB73B-1	Low	04/30/22	4:16	21.3	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/Slight dark gray (n3), no cohesion, slipper shells/small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB73C-1	Low	04/30/22	4:23	21.3	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/Slight dark gray (n3), no cohesion, small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB74-1	High	04/30/22	3:35	15.6	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB74-2	High	04/30/22	3:44	15.5	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB75A-1	Low	04/30/22	2:55	13.4	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	

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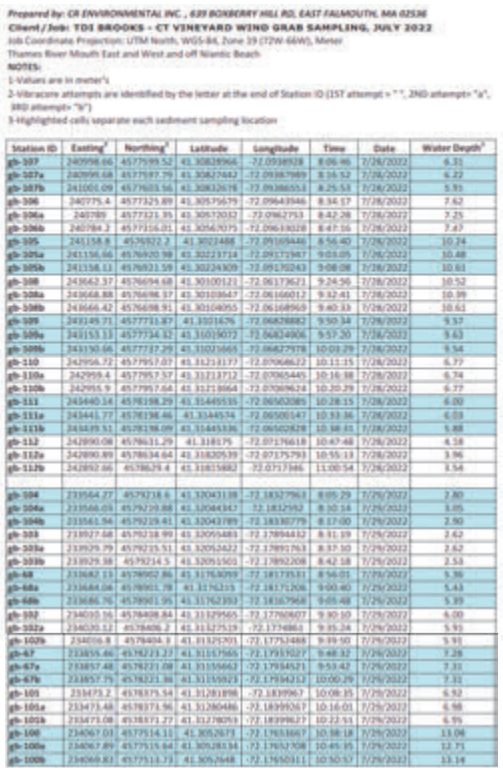
522CT22-GB75B-1	Low	04/30/22	3:04	12.2	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/Slight dark gray (n3), no cohesion, slipper shells/small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB75C-1	Low	04/30/22	3:13	12	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion, slipper shells/ small shell fragments	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB76-1	High	04/30/22	2:08	15	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) olive gray, Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB76-2	High	04/30/22	2:16	14.8	Y	Y	Y	Y	Y	Y	Silty Fine sand, (5y4/1) olive gray, Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB77A-1	Low	04/30/22	1:23	9.1	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB77B-1	Low	04/30/22	1:31	9.1	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB77C-1	Low	04/30/22	1:40	8.9	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB78-1	High	05/01/22	17:19	6.8	Y	Y	Y	Y	Y	Y	Slight sandy, Muddy, olive gray (5y4/1) High cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB79A-1	Low	04/30/22	4:39	20.52	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB79B-1	Low	04/30/22	4:50	20.12	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB79C-1	Low	04/30/22	4:59	20.15	Y	Y	Y	Y	N	Y	Fine sand, (5y4/1) olive gray/Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB80-1	High	04/29/22	21:56	12	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB80-2	High	04/29/22	22:06	10.9	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB81A-1	Low	04/29/22	22:45	13	Y	Y	Y	Y	N	Y	Muddy/Silty, dark gray (n3), no cohesion, slipper shells	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB81B-1	Low	04/29/22	22:56	12.8	Y	Y	Y	Y	N	Y	Muddy/Silty, dark gray (n3), no cohesion, slipper shells	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB81C-1	Low	04/29/22	23:10	12.7	Y	Y	Y	Y	N	Y	Muddy/Silty, dark gray (n3), no cohesion, slipper shells	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB82-1	High	04/29/22	23:36	10.5	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion, slipper shells	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB82-2	High	04/29/22	23:44	10.5	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight Dark gray (n3), no cohesion, slipper shells	Weston Clark/Olivia Shaw	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB83A-1	Low	04/30/22	0:05	10.5	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1) Olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB83B-1	Low	04/30/22	0:12	10.5	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1), olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB83C-1	Low	04/30/22	0:19	10.4	Y	Y	Y	Y	N	Y	Silty Fine sand, (5y4/1), olive gray/ Slight dark gray (n3), no cohesion	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB84-1	High	04/30/22	0:47	6.5	Y	Y	Y	Y	Y	Y	Muddy/ Silty Fine sand, (5y4/1) olive gray to dark gray (n3), no cohesion, slipper shells & burgundy moss?	Weston Clark/Olivia Shaw	Accepted	
522CT22-GB85A-1	Low	05/01/22	16:23	4.5	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) olive gray/Slight greenish gray (566/1) Slight cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB85B-1	Low	05/01/22	16:32	4.5	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) olive gray/Slight greenish gray (566/1) Slight cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB85C-1	Low	05/01/22	16:38	4.5	Y	Y	Y	Y	N	Y	Silty sand, (5y4/1) olive gray/Slight greenish gray (566/1) Slight cohesion	Trevin Dowdy/Addison	Accepted	
522CT22-GB86A-1	Low	06/14/22	10:56	66	Y	Y	Y	Y	N	N		Brian Scherer/ Neil Smith	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB86A-2	Low	06/14/22	11:30	66	Y	Y	Y	Y	N	Y		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB86B-1	Low	06/14/22	11:14	66	Y	Y	Y	Y	N	Y		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB86C-1	Low	06/14/22	11:44	66	Y	Y	Y	Y	N	Y		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB87A-1	Low	06/14/22	12:57	59	Y	Y	Y	Y	N	Y		Pieter van Niekerk/Ken Craigue	Accepted	
522CT22-GB87B-1	Low	06/14/22	13:14	59	Y	Y	Y	Y	N	Y		Pieter van Niekerk/Ken Craigue	Accepted	
522CT22-GB87C-1	Low	06/14/22	13:32	59	Y	Y	Y	Y	N	Y		Pieter van Niekerk/Ken Craigue	Accepted	
522CT22-GB88A-1	Low	06/04/22	12:35	60	Y	Y	Y	Y	N	Y	Silty fine sand, Olive gray (5y4/3), no cohesion tube worms	Neil Smith/Jasmine Baloch	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-GB88B-1	Low	06/04/22	12:55	60	Y	Y	Y	Y	N	Y	Silty fine sand, Olive gray (5y4/3), no cohesion tube worms	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB88C-1	Low	06/04/22	13:29	60	Y	Y	Y	Y	N	Y	Silty fine sand, Olive gray (5y4/3), no cohesion tube worms	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB89A-1	Low	06/04/22	9:46	50	Y	Y	Y	Y	N	Y	Fine to Med sand brown (7.5yr 5/4) no cohesion small shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB89B-1	Low	06/04/22	10:06	50	Y	Y	Y	Y	N	Y	Fine to Med sand dark brown (10yr 4/2) no cohesion small shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB89C-1	Low	06/04/22	10:20	50	Y	Y	Y	Y	N	Y	Fine to Med sand dark brown (10yr 4/3) no cohesion small shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB-90A-1	Low	06/04/22	7:16	40	Y	Y	Y	Y	Y	Y	Medium to fine sand red brown (10yr 5/4) with sand dollars and shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB-90B-1	Low	06/04/22	7:52	40	Y	Y	Y	Y	N	Y	Medium to fine sand red brown (7.5yr 5/4) with sand dollars and shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB-90C-1	Low	06/04/22	8:07	40	Y	Y	Y	Y	N	Y	Medium to fine sand red brown (7.5yr 5/4) with sand dollars and shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB91A-1	Low	06/04/22	0:55	32	Y	Y	Y	Y	Y	Y	Course to medium sand dark brown (10yr 4/3) no cohesion small shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB91B-1	Low	06/04/22	1:17	32	Y	Y	Y	Y	N	Y	Fine to medium sand dark brown (10yr 4/3) no cohesion small shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB91C-1	Low	06/04/22	1:32	32	Y	Y	Y	Y	N	Y	Fine to medium sand dark brown (10yr 4/3) no cohesion small shell fragments	Brian Scherer/ Peiter	Accepted	
522CT22-GB92A-1	High	06/03/22	23:34	26	Y	Y	Y	Y	Y	Y	Course to medium sand dark brown (10yr 4/2) no cohesion sand dollars	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB92B-1	High	06/03/22	23:56	26	Y	Y	Y	Y	N	Y	Course to medium sand dark brown (10yr 4/2) no cohesion sand dollars	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB92C-1	High	06/04/22	0:11	26	Y	Y	Y	Y	N	Y	Course to medium sand dark brown (10yr 4/2) no cohesion sand dollars	Brian Scherer/ Peiter	Accepted	
522CT22-GB93A-1	Low	06/03/22	21:33	26	Y	Y	Y	Y	N	Y	Silty clay dispersed Fine sand olive gray (5y4/3) to Medium cohesion, layer of shells on top	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB93B-1	Low	06/03/22	21:51	26	Y	Y	Y	Y	N	Y	Silty clay dispersed Fine sand olive gray (5y4/3) to Medium cohesion, layer of shells on top	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB93C-1	Low	06/03/22	22:05	26	Y	Y	Y	Y	N	Y	Silty clay dispersed Fine sand olive gray (5y4/3) to Medium cohesion, layer of shells on top	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB94A-1	Low	06/15/22	2:44	36	Y	Y	Y	Y	N	N		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB94B-1	Low	06/15/22	3:06	36	Y	Y	Y	Y	N	N		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB94C-1	Low	06/15/22	3:18	36	Y	Y	Y	Y	N	N		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB95A-1	Low	06/15/22	3:46	33	Y	Y	Y	Y	Y	Y		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB95B-1	Low	06/15/22	3:58	33	Y	Y	Y	Y	N	N		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB95C-1	Low	06/15/22	4:08	33	Y	Y	Y	Y	N	N		Brian Scherer/ Neil Smith	Accepted	
522CT22-GB96A-2	Low	06/14/22	23:10	31	Y	Y	Y	Y	Y	Y		Pieter van Niekerk/Ken Craigue	Accepted	
522CT22-GB96B-1	Low	06/14/22	23:26	31	Y	Y	Y	Y	N	N		Pieter van Niekerk/Ken Craigue	Accepted	
522CT22-GB96C-1	Low	06/14/22	23:41	31	Y	Y	Y	Y	N	N		Pieter van Niekerk/Ken Craigue	Accepted	
522CT22-GB97A-1	Low	06/03/22	16:12	35	Y	Y	Y	Y	N	Y	Course sand, rocks and pebbles, Dark brown 10yr 4/3 to olive grey (5yr 4/3) no cohesion of shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB97B-1	Low	06/03/22	16:44	35	Y	Y	Y	Y	N	Y	Course sand, rocks and pebbles, Dark brown 10yr 4/3 to olive grey (5yr 4/4) no cohesion of shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB97C-1	Low	06/03/22	17:02	35	Y	Y	Y	Y	N	Y	Course sand, rocks and pebbles, Dark brown 10yr 4/3 to olive grey (5yr 4/5) no cohesion of shells and shell fragments	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB99A-1	Low	06/03/22	18:41	19	Y	Y	Y	Y	N	Y	Med-Coarse Sand, dark Brown (10yr 3/4) to Olive Grey (5y4/3) , no cohesion, shell Fragments	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB99B-1	Low	06/03/22	18:51	19	Y	Y	Y	Y	N	Y	Med-Coarse Sand, dark Brown (10yr 3/4) to Olive Grey (5y4/4) , no cohesion, shell Fragments	Neil Smith/Jasmine Baloch	Accepted	
522CT22-GB99C-1	Low	06/03/22	19:01	19	Y	Y	Y	Y	N	Y	Med-Coarse Sand, dark Brown (10yr 3/4) to Olive Grey (5y4/5) , no cohesion, lots of fine shell Fragments	Neil Smith/Jasmine Baloch	Accepted	

Job #:		J22570		Client:	Vineyard Wind Northeast							Date Range:	April 10, 2022 -	
Sample ID	Priority	Date Sample was taken	Time Sample was taken	Depth (m)	Photo Taken (Y/N)	Photo Uploaded (Y/N)	Video Grab (Y/N)	Video Uploaded (Y/N)	Infauna Taken (Y/N)	GSA Bagged? (Y/N)	Description	Lab Tech(s) who processed Sample	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22 -GB72A		10/01/22	5:24	24	Y	Y	Y	Y	Y	Y		Baloch, Jasmine	Accepted	
522CT22-GB74A-1		09/30/22	13:36	6	Y	Y	Y	Y	Y	Y		Eiben, Haley	Accepted	
522CT22-GB80A-1		09/30/22	14:14	16	Y	Y	Y	Y	Y	Y		Eiben, Haley	Accepted	
522CT22-GB82A-1		09/30/22	12:55	10	Y	Y	Y	Y	N	Y		Baloch, Jasmine,Eiben, Haley	Rejected	Insufficient infauna sample; sufficient GSA
522CT22-GB82B-1		09/30/22	13:07	10	Y	Y	Y	Y	Y	Y		Baloch, Jasmine,Eiben, Haley	Accepted	
522CT22-GB98A-1		09/30/22	23:31	85	Y	Y	Y	Y	N	N		Eiben, Haley	Rejected	
522CT22-GB98A-3		10/06/22	22:51	80	Y	Y	Y	Y	N	Y		Eiben, Haley	Accepted	
522CT22-GB98B-3		10/07/22	23:40	100	Y	Y	Y	Y	Y	Y		Baloch, Jasmine,Eiben, Haley	Accepted	



Prepared by: CR ENVIRONMENTAL INC , 639 BOXBERRY HILL RD, EAST FALMOUTH, MA 02536

Client / Job: TDI BROOKS - CT VINEYARD WIND GRAB SAMPLING, JULY 2022

Job Coordinate Projection: UTM North, WGS-84, Zone 19 (72W-66W), Meter

Thames River Mouth East and West and off Niantic Beach

NOTES:

1-Values are in meter's

2-Vibracore attempts are identified by the letter at the end of Station ID (1ST attempt = " ", 2ND attempt= "a", 3RD attempt= "b")

3-Highlighted cells separate each sediment sampling location

Station ID	Easting*	Northing*	Latitude	Longitude	Time	Date	Water Depth*
gb-107	240998.66	4577599.52	41.30828966	-72.0938928	8:06:46	7/28/2022	6.31
gb-107a	240999.68	4577587.79	41.30827442	-72.09387989	8:16:52	7/28/2022	6.22
gb-107b	241000.09	4577603.56	41.30832678	-72.0938655	8:25:53	7/28/2022	5.91
gb-106	240775.4	4577325.89	41.3057567	-72.0964394	8:34:17	7/28/2022	7.62
gb-106a	240789	4577323.35	41.30572032	-72.0962753	8:42:28	7/28/2022	7.25
gb-106b	240784.2	4577316.01	41.30567075	-72.0961802	8:47:16	7/28/2022	7.47
gb-105	241158.8	4576922.2	41.3023488	-72.0916944	8:56:40	7/28/2022	10.24
gb-105a	241156.66	4576920.98	41.30223714	-72.0917396	9:03:05	7/28/2022	10.48
gb-105b	241158.11	4576921.59	41.30224309	-72.091702	9:08:08	7/28/2022	10.61
gb-108	243642.37	4576694.68	41.30100121	-72.0617362	9:24:56	7/28/2022	10.52
gb-108a	243648.88	4576698.37	41.30103647	-72.0616601	9:32:41	7/28/2022	10.39
gb-108b	243646.42	4576698.91	41.30104055	-72.0616896	9:40:33	7/28/2022	10.61
gb-109	243149.71	4577731.87	41.3101676	-72.0682888	9:50:34	7/28/2022	9.57
gb-109a	243153.13	4577734.32	41.31019072	-72.0682406	9:57:20	7/28/2022	9.63
gb-109b	243150.66	4577737.29	41.31021665	-72.0682797	10:03:29	7/28/2022	9.54
gb-110	242956.72	4577957.07	41.31213177	-72.0706622	10:13:15	7/28/2022	6.77
gb-110a	242959.4	4577957.57	41.31213712	-72.0706544	10:16:38	7/28/2022	6.74
gb-110b	242955.9	4577957.64	41.31213864	-72.0706962	10:20:29	7/28/2022	6.77
gb-111	243440.14	4578198.29	41.31451535	-72.0650285	10:28:15	7/28/2022	6.00
gb-111a	243441.77	4578198.46	41.3144534	-72.0650014	10:33:36	7/28/2022	6.03
gb-111b	243439.51	4578198.09	41.31445336	-72.0650282	10:38:43	7/28/2022	5.88
gb-112	242890.08	4578631.29	41.3181	-72.0717661	10:47:48	7/28/2022	4.18
gb-112a	242890.89	4578634.64	41.31820539	-72.07175793	10:55:13	7/28/2022	3.96
gb-112b	242892.66	4578629.4	41.31815882	-72.0717386	11:00:54	7/28/2022	3.54
gb-104	233564.27	4579218.6	41.32043138	-72.1832796	8:05:29	7/29/2022	2.80
gb-104a	233566.03	4579219.88	41.32044947	-72.1832592	8:10:16	7/29/2022	3.05
gb-104b	233561.94	4579219.41	41.32043789	-72.1833079	8:17:00	7/29/2022	2.90
gb-103	233927.68	4579238.99	41.32095483	-72.1789443	8:31:19	7/29/2022	2.62
gb-103a	233929.79	4579235.51	41.32092622	-72.1789176	8:37:10	7/29/2022	2.62
gb-103b	233929.38	4579214.5	41.32091501	-72.1789220	8:42:18	7/29/2022	2.53
gb-68	233682.13	4578902.86	41.31763059	-72.1817351	8:56:01	7/29/2022	5.36
gb-68a	233684.04	4578901.78	41.3176215	-72.1817126	9:00:40	7/29/2022	5.43
gb-68b	233686.76	4578901.95	41.31762393	-72.1816796	9:05:48	7/29/2022	5.39
gb-102	234010.16	4578408.84	41.31329565	-72.1776067	9:30:10	7/29/2022	6.00
gb-102a	234010.12	4578406.2	41.31327519	-72.1774886	9:35:24	7/29/2022	5.91
gb-102b	234006.8	4578404.3	41.31321901	-72.1775348	9:39:50	7/29/2022	5.91
gb-67	233855.46	4578223.27	41.31157565	-72.1793527	9:48:32	7/29/2022	7.28
gb-67a	233857.48	4578221.08	41.31155663	-72.1793452	9:53:42	7/29/2022	7.33
gb-67b	233857.75	4578221.36	41.31155923	-72.1793423	10:00:29	7/29/2022	7.31
gb-101	233473.2	4578379.54	41.31281898	-72.183996.7	10:08:35	7/29/2022	6.92
gb-101a	233473.48	4578373.96	41.31280486	-72.1839936	10:16:01	7/29/2022	6.98
gb-101b	233471.08	4578371.27	41.31278053	-72.1839862	10:22:53	7/29/2022	6.95
gb-100	234067.03	4577514.11	41.3052673	-72.1763667	10:38:18	7/29/2022	13.06
gb-100a	234067.89	4577519.64	41.30526134	-72.1763708	10:45:35	7/29/2022	12.71
gb-100b	234069.83	4577513.73	41.3052648	-72.1763611	10:50:57	7/29/2022	13.14

Appendix C-1: Underwater Video Field Log: 522 Lease Area

ROV Transect Field Log

Job #: J22570 **Client:** Vineyard Wind Northeast **Date Range:** April 10, 2022 -

Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522LA22-VT01-1	, 522LA22-VT01-DT-1, 522LA22-VT0	11-Jun-22	9:59	43	low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	FLAT SAND	Accepted	
522LA22-VT02-1	22-VT02-1, 522LA22-VT02-DT-1.1 T	11-Jun-22	11:11	41	low	Y	Y	Y	Y	N	N	Brian Scherer/Addison Ochs	Redo	Aborted	VESSEL POSITIONING
522LA22-VT02-2	A22-VT02-2, 522LA22-VT02-GP-2.1 T	11-Jun-22	13:08	45	low	N	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	FLAT SAND	Rejected	NO HD RECORDING
522LA22-VT02-3	, 522LA22-VT02-DT-3, 522LA22-VT0	11-Jun-22	14:14	45	low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	FLAT SAND	Accepted	
522LA22-VT03-1	2-VT03-DT-1, 522LA22-VT03-GP-1.	11-Jun-22	19:10	42	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Jasmine Baloch	Redo	Aborted	vessel positioning and currents
522LA22-VT03-2	2, 522LA22-VT03-DT-2, 522LA22-VT	11-Jun-22	19:36	42	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Jasmine Baloch	Flat sand with shell hash pockets	Accepted	
522LA22-VT04-1	, 522LA22-VT04-DT-1, 522LA22-VT	12-Jun-22	4:37	40	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	vessel positioning and currents
522LA22-VT04-2	04-2, 522LA22-VT04-DT-2, 522LA22	12-Jun-22	5:11	40	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Current too strong
522LA22-VT04-3	3, 522LA22-VT04-DT-3, 522LA22-VT	12-Jun-22	5:33	40	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Flat sand with sand dollar field	Accepted	
522LA22-VT05-1	22-VT05-DT-1,522LA22-VT05-GP-1.	12-Jun-22	17:05	46	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	Redo	Aborted	VESSEL POSITIONING
522LA22-VT05-2	, 522LA22-VT05-DT-2, 522LA22-VT0	12-Jun-22	18:23	46	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Jasmine Baloch	Redo	Aborted	vessel positioning and currents
522LA22-VT05-3	, 522LA22-VT05-DT-3, 522LA22-VT0	12-Jun-22	23:04	46	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Jasmine Baloch	flat sand with isolated shell pockets	Accepted	
522LA22-VT06-1	, 522LA22-VT06-DT-1, 522LA22-VT0	13-Jun-22	9:06	53	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	Flat sandy silt with small depressions	Accepted	
522LA22-VT07-1	522LA22-VT07-DT-1, 522LA22-VT07	12-Jun-22	11:19	46	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	flat sand with isolated shell pockets	Aborted	VESSEL POSITIONING
522LA22-VT07-2	522LA22-VT07-DT-2, 522LA22-VT07	12-Jun-22	12:56	47	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	Redo	Aborted	VESSEL POSITIONING
522LA22-VT07-3	522LA22-VT07-DT-3, 522LA22-VT07	12-Jun-22	14:21	47	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	flat sand with isolated shell pockets	Accepted	
522LA22-VT08-1	522LA22-VT08-DT-1, 522LA22-VT08	12-Jun-22	7:22	49	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	flat sandy silt	Accepted	
522LA22-VT09-1	, 522LA22-VT09-DT-1, 522LA22-VT0	13-Jun-22	3:11	50	Low	Y	Y	Y	Y	Y B	Y	rian Scherer/Jasmine Baloch	FLAT SAND WITH DENSE GROWTH	Accepted	
522LA22-VT10-1	, 522LA22-VT10-DT-1, 522LA22-VT1	13-Jun-22	10:37	57	Low	Y	Y	Y	Y	N	N	Brian Scherer/Addison Ochs	FLAT SAND	Accepted	strong currents, GOPRO IMPLODED, only captured gp 1.1-1.2
522LA22-VT11-1	522LA22-VT11-DT-1, 522LA22-VT1	12-Jun-22	8:38	51	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	flat sandy silt	Accepted	
522LA22-VT12-1	, 522LA22-VT12-DT-1, 522LA22-VT1	13-Jun-22	17:41	62	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	FLAT SAND	Aborted	strong currents
522LA22-VT12-2	, 522LA22-VT12-DT-2, 522LA22-VT1	13-Jun-22	18:26	62	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Jasmine Baloch	Flat sand with burrows	Accepted	
522LA22-VT13-1	, 522LA22-VT13-DT-1, 522LA22-VT1	13-Jun-22	12:29	58	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	FLAT SAND	Accepted	
522LA22-VT14-1	2-VT14-DT-1, 522LA22-VT14-GP-1.	11-Jun-22	18:16	39	low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Jasmine Baloch	Redo	Aborted	Strong currents boat could not maintain drift
522LA22-VT14-2	2, 522LA22-VT14-DT-2, 522LA22-VT	12-Jun-22	0:50	39	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	vessel positioning and currents
522LA22-VT14-3	3, 522LA22-VT14-DT-3, 522LA22-VT	12-Jun-22	1:09	39	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	flat sand with Patches of shell	Accepted	
522LA22-VT15-1	, 522LA22-VT15-DT-1, 522LA22-VT1	11-Jun-22	15:50	42	low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	Redo	Rejected	ROV POSITION
522LA22-VT15-2	, 522LA22-VT15-DT-2, 522LA22-VT1	11-Jun-22	16:57	42	low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	flat sand with pockets of shell	Accepted	
522LA22-VT16-1	, 522LA22-VT16-DT-1, 522LA22-VT	12-Jun-22	2:17	44	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	strong currents
522LA22-VT16-2	2, 522LA22-VT16-DT-2, 522LA22-VT	12-Jun-22	2:54	44	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	flat sand with Patches of shell	Accepted	
522LA22-VT17-1	, 522LA22-VT17-DT-1, 522LA22-VT1	13-Jun-22	0:31	44	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	strong currents
522LA22-VT17-2	, 522LA22-VT17-DT-2, 522LA22-VT1	13-Jun-22	1:29	45	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	strong currents
522LA22-VT17-3	, 522LA22-VT17-DT-3, 522LA22-VT1	13-Jun-22	2:00	46	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	strong currents
522LA22-VT17-4	, 522LA22-VT17-DT-4, 522LA22-VT1	13-Jun-22	4:44	44	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	strong currents
522LA22-VT17-5	522LA22-VT17-DT-5	13-Jun-22	6:02	44	Low	Y	N	N	Y	N	N	Brian Scherer/Addison Ochs	Redo	Aborted	strong currents
522LA22-VT17-6	, 522LA22-VT17-DT-6, 522LA22-VT1	13-Jun-22	14:41	44	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	flat sand with isolated shell pockets	Accepted	
522LA22-VT18-1	22-VT18-DT-1,522LA22-VT18-GP-1.	12-Jun-22	15:47	46	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	Redo	Aborted	VESSEL POSITIONING
522LA22-VT18-2	, 522LA22-VT18-DT-2,522LA22-VT1	12-Jun-22	16:14	46	Low	Y	Y	Y	Y	Y	Y	Pieter Van Niekerk/Addison Ochs	flat sand with isolated shell pockets	Accepted	
522LA22-VT19-1	, 522LA22-VT19-DT-1, 522LA22-VT1	12-Jun-22	9:51	47	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	flat sand with isolated shell pockets	Accepted	

Appendix C-2: Underwater Video Field Log: MA OECC

ROV Transect Field Log

Job #:	J22570	Client:	Vineyard Wind Northeast	Date Range:	April 10, 2022 -

Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22-VT005-2	T005-2, 522MA22-VT005-DT-2, 522MA22-VT0	5-Sep-22	9:37	14		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	FLAT SAND AND BOULDER FIELD	ACCEPTED	
522MA22-VT009-2	T009-2, 522MA22-VT009-DT-2, 522MA22-VT0	5-Sep-22	8:44	18		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	FLAT SAND AND BOULDER FIELD	ACCEPTED	
522MA22-VT010-2	T010-2, 522MA22-VT010-DT-2, 522MA22-VT0	5-Sep-22	8:03	20		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	FLAT SAND, sand ripples, isolated boulders	ACCEPTED	
522MA22-VT01-1	522MA22-VT01-1, 522MA22-VT01-1 Nav	17-Apr-22	10:56	8	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples	Accepted	
522MA22-VT011-3	T011-3, 522MA22-VT011-DT-3, 522MA22-VT0	5-Sep-22	7:11	20		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	FLAT SAND, sandy gravel	ACCEPTED	
522MA22-VT013-2	T013-2, 522MA22-VT013-DT-2, 522MA22-VT0	5-Sep-22	6:17	21		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	Flat sand	ACCEPTED	
522MA22-VT02-1	522MA22-VT02-1, 522MA22-VT02-1 Nav	17-Apr-22	11:21	11	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples	Accepted	
522MA22-VT023-2	522MA22-VT023-2	5-Sep-22	0:00			N	Y	Y		N	N	Cody Maki/Addison Ochs		ABORTED	VESSEL POSITION
522MA22-VT023-3	T023-3, 522MA22-VT023-DT-3, 522MA22-VT0	5-Sep-22	3:51	26		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	BOULDER FIELD	ACCEPTED	
522MA22-VT03-1	522MA22-VT03-1, 522MA22-VT03-1 Nav	17-Apr-22	13:35	13	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples Crabs	Accepted	
522MA22-VT031-2	T031-2, 522MA22-VT031-DT-2, 522MA22-VT0	5-Sep-22	1:28	37		Y	Y	Y		Y	Y	Ralph kerwan/Addison Ochs	Flat sand	ACCEPTED	
522MA22-VT033-4	/T033-4,522MA22-VT033-DT-4,522MA22-VT0	5-Sep-22	0:25	40		Y	Y	Y		Y	Y	Ralph kerwan/Addison Ochs	Flat sand	ACCEPTED	
522MA22-VT035-3	T035-3, 522MA22-VT035-DT-3, 522MA22-VT0	4-Sep-22	23:05	36		Y	Y	Y		Y	Y	Ralph Kerwan/Jasmine Baloch	Flat sand	ACCEPTED	
522MA22-VT037-4	522MA22-VT037-4, 522MA22-VT037-DT-4	29-Sep-22	19:00	40		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	Flat muddy sand, waves, very coarse sand	REJECTED	DAT FILE FAILED
522MA22-VT037-5	T037-5, 522MA22-VT037-DT-5, 522MA22-VT0	29-Sep-22	20:18	42		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	Flat muddy sand, waves, very coarse sand	ACCEPTED	Nav Video does not show slate, possible gap in dat file
522MA22-VT04-1	522MA22-VT04-1, 522MA22-VT04-1 Nav	17-Apr-22	14:35	13	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand cobbles worm castings	Accepted	
522MA22-VT041-4	522MA22-VT041-4	29-Sep-22	16:36	32		N	Y	N		N	N	Cody Maki/Jasmine Baloch	Sand w/ripples	ABORTED	TECHNICAL/BEACON ERROR/DEPTH ISSUE
522MA22-VT041-5	522MA22-VT04-5, 522MA22-VT041-DT-5	29-Sep-22	17:06	32		Y	Y	Y		Y	Y	Coddy Maki/Haley Eiben	Sand w/ripples	REJECTED	NAV FILE ISSUE/BEACON
522MA22-VT041-6	522MA22-VT041-DT-6	29-Sep-22	22:22	37		N	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	BOAT DRIFTING OVER LINE
522MA22-VT041-ALT1	MA22-VT041-ALT1, 522MA22-VT041-GPALT1.	29-Sep-22	22:57	37		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	Muddy sand, small ripples, algae, squids	ACCEPTED	
522MA22-VT05-1	522MA22-VT05-1, 522MA22-VT05-1 Nav	17-Apr-22	15:36	14	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Boulders RSD gravelly Sand	Accepted	
522MA22-VT06-1	522MA22-VT06-1, 522MA22-VT06-1 Nav	17-Apr-22	17:36	15	High	Y	Y	Y	Y	N	N	Cody Maki/Jasmine Baloch	Redo	Rejected	
522MA22-VT06-1	522MA22-VT06-1	6-May-22	16:20	15	High	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Redo -- beacon dropped out	Rejected	Beacon dropped out making position unknown
522MA22-VT06-2	522MA22-VT06-2	6-May-22	16:48	15	High	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Isolated boulders; very large boulders/outcrop	Accepted	
522MA22-VT07-1	522MA22-VT07-1, 522MA22-VT07-1 Nav	17-Apr-22	18:59	16	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand Ripples	Accepted	
522MA22-VT08-1	522MA22-VT08-1, 522MA22-VT08-1 Nav	17-Apr-22	20:24	18	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand consistant isolated boulders	Accepted	
522MA22-VT09-1	522MA22-VT09-1, 522MA22-VT09-1 Nav	17-Apr-22	9:35	19	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand isolated boulders low to no fauna	Accepted	
522MA22-VT10-1	522MA22-VT10-1 Nav	17-Apr-22	8:10	21	High	N	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand ripples with Isolated boulders fauna on boulders	Accepted	HD camera recording stopped 1 min in
522MA22-VT11-1	522MA22-VT11-1, 522MA22-VT12-1 Nav	15-Apr-22	15:30	34	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Boulder fishing gear sandy bottom	Rejected	Sea state lead to ship dragging ROV too fast, loss of beacon, high trubitity
522MA22-VT11-2	522MA22-VT11-2 Nav	17-Apr-22	7:20	21	Low	N	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand ripples	Accepted	HD camera recording stopped 1 min in
522MA22-VT12-1	522MA22-VT12-1, 522MA22-VT12-1 Nav	15-Apr-22	13:00	35	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples	Accepted	
522MA22-VT13-1	522MA22-VT13-1, 522MA22-VT13-1 Nav	15-Apr-22	11:30	30	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples gravelly sand pacth moon snails and red algee	Accepted	
522MA22-VT14-1	522MA22-VT14-1, 522MA22-VT14-1 Nav	15-Apr-22	10:00	na	Low	Y	Y	Y	Y	N	N	Cody Maki/Jasmine Baloch	Did not hit bottom	Rejected	ROV would not stablize. Thruster out with wrong spin direction
522MA22-VT14-2	522MA22-VT14-2	6-May-22	14:40	25	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Boulder outcrops; flat sand	Accepted	
522MA22-VT15-1	522MA22-VT15-1, 522MA22-VT15-1 Nav	15-Apr-22	8:28	39	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Aborted Turbidity too much bad environmental conditions
522MA22-VT15-2	522MA22-VT15-2	21-Apr-22	17:21	39	High	Y	N	Y	Y	N	N	Ken Craigue/Addison Ochs	Redo	Rejected	Current too strong
522MA22-VT15-3	522MA22-VT15-3	5-May-22	11:34	32	High	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Flat sand	Accepted	
522MA22-VT16-1	522MA22-VT16-1	6-May-22	12:59	36	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Flat sand/small to medium ripples	Accepted	
522MA22-VT17-1	522MA22-VT17-1, 522MA22-VT17-1 Nav	14-Apr-22	9:38	41	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples animal craters	Rejected	No Nav but good bearing
522MA22-VT17-2	522MA22-VT17-2	5-May-22	13:28	42	High	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Flat sand	Accepted	
522MA22-VT18-1	522MA22-VT18-1	5-May-22	14:51	41	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Flat sand	Accepted	
522MA22-VT19-1	522MA22-VT19-1	5-May-22	16:00	37	High	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Flat sand	Accepted	
522MA22-VT20-1	522MA22-VT20-1	5-May-22	17:06	38	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Isolated boulders on terminal ends; flat sands in middle transect	Rejected	Rejected by TRC duringon shore analysis
522MA22-VT20-2	0-DT-2, 522MA22-VT20-GP-2.1, 522MA22-VT2	5-Jun-22	21:55	36	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Vessel off line
522MA22-VT20-3	MA22-VT20-GP-3.3, 522MA22-VT20-GP-3.4, 5	5-Jun-22	22:40	36	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	sand ripples with isolated boulders	Accepted	
522MA22-VT21-1	522MA22-VT21-1, 522MA22-VT21-1 Nav	14-Apr-22	7:45	36	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Isolated boulders	Rejected	Lost beacon coms
522MA22-VT21-2	522MA22-VT21-2 Nav	18-Apr-22	15:25	30	High	N	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Isolated boulders	Accepted	
522MA22-VT22ALT-1	ALT-1, 522MA22-VT22ALT-DT-1, 522MA22-V	6-Jun-22	0:00	34	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	Redo	Aborted	Tech, winfrog missing line
522MA22-VT22ALT-2	22-VT22ALT-GP-2.1,522MA22-VT22ALT-GP-2	6-Jun-22	0:00	34	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	large boulder field	Accepted	
522MA22-VT23-1	522MA22-VT23-1, 522MA22-VT23-1Nav	18-Apr-22	14:43	27	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Isolated boulders	Accepted	
522MA22-VT24-1	522MA22-VT24-1	5-May-22	18:29	31	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Redo - Isolated boulders at SOL, magnetic anomoly 20m after start caused errata in ROV	Rejected	Compass affected by magnetic anomoly & beacon dropped out due to ranging
522MA22-VT24-2	522MA22-VT24-2	5-May-22	18:55	31	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Redo - Isolated boulders at SOL, magnetic anomoly 20m after start caused errata in ROV	Rejected	Compass affected by magnetic anomoly & beacon dropped out due to ranging
522MA22-VT24-3	522MA22-VT24-3	6-May-22	11:22	31	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Isolated boulders; outcrops of boulders; small sand ripples	Accepted	
522MA22-VT25-1	522MA22-VT25-1, 522MA22-VT25-1 Nav	13-Apr-22	20:00	35	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Lost connection
522MA22-VT25-2	522MA22-VT25-2 reject	13-Apr-22	20:07	29	High	Y	Y	Y	Y	N	N	Cody Maki/Jasmine Baloch	Redo	Rejected	Lost connection
522MA22-VT25-2	522MA22-VT25-2, 522MA22-VT25-2 Nav	18-Apr-22	14:03	29	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand ripples low to no fauna	Accepted	Labeled 2 in the video time stamp checked
522MA22-VT26-1	522MA22-VT26-1	6-May-22	8:25	31	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Redo -- beacon dropped out	Rejected	Beacon dropped out making position unknown
522MA22-VT26-2	522MA22-VT26-2	6-May-22	10:17	31	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Small/med sand ripples	Accepted	
522MA22-VT27-1	522MA22-VT27-1, 522MA22-VT27-1 Nav	13-Apr-22	18:42	38	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand ridges and ripples sand dollar field	Accepted	
522MA22-VT28-1	522MA22-VT28-1	6-May-22	7:18	35	Low	Y	Y	Y	Y	Y	C Y	Ken raigue/Addison Ochs	Large sand ripples	Accepted	
522MA22-VT29-1	522MA22-VT29-1, 522MA22-VT29-1 Nav	13-Apr-22	17:20	38	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand ridges and ripples	Accepted	
522MA22-VT30-1	30-1, 522MA22-VT30-DT-1, 522MA22-VT30-D	7-Jun-22	0:47	37	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	sand with gravel	Aborted	CNAV out
522MA22-VT30-2	30-2, 522MA22-VT30-DT-2.1, 522MA22-VT30-	7-Jun-22	3:03	37	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	sand waves with gravel	Accepted	
522MA22-VT31-1	522MA22-VT31-1, 522MA22-VT31-1 Nav	13-Apr-22	16:02	43	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy large small ripples sparse sponges	Accepted	
522MA22-VT32-1	T32-1, 522MA22-VT32-DT-1, 522MA22-VT32-(	7-Jun-22	4:57	40	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	sand with ripples	Accepted	
522MA22-VT33-1	522MA22-VT33-1, 522MA22-VT33-1 Nav	13-Apr-22	10:38	47	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples sand dollar field	Rejected	Lights did not work
522MA22-VT33-2	522MA22-VT33-2 start at 39.24 mins	13-Apr-22	13:14		High	Y	Y	N	N	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples sand dollar field	Accepted	
522MA22VT34-1	-GP-1.2,522MA22-VT34-GP-1.3,522MA22-VT3	7-Jun-22	6:17	38	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	SAND, SILT	Accepted	
522MA22-VT35-1	522MA22-VT35-1, 522MA22-VT35-1 Nav	12-Apr-22	8:57	NA	High	N	Y	Y	Y	N	N	Cody Maki/Jasmine Baloch	Redo	Rejected	Outlander shorted out
522MA22-VT35-2	522MA22-VT35-2, 522MA22-VT35-2 Nav	13-Apr-22	7:49	45	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples sand dollar field	Accepted	First Blue Transect
522MA22VT36-1	6-DT-1, 522MA22-VT36-GP-1.1,522MA22-VT3	7-Jun-22	8:45	36	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	Redo	Aborted	cnav crash
522MA22VT36-2	2MA22-VT36-DT-2, 522MA22-VT36-GP-2.1,52	7-Jun-22	9:19	36	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	Redo	Aborted	vessel positioning
522MA22VT36-3	-GP-3.1,522MA22-VT36-GP-3.2,522MA22-VT3	7-Jun-22	10:04	36	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	Sand	Accepted	
522MA22-VT37-1	522MA22-VT37-1, 522MA22-VT37-1 Nav	14-Apr-22	14:00	42	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy ripples	Accepted	
522MA22VT38-1	MA22-VT38-GP-1.1,522MA22-VT38-GP-1.2,52	7-Jun-22	11:36	34	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	Sand	Accepted	
522MA22-VT39-1	522MA22-VT39-1, 522MA22-VT39-1 Nav	14-Apr-22	16:30	43	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Site prediction false worm reef	Rejected	
522MA22-VT39-2	522MA22-VT39-2, 522MA22-VT39-2 Nav	18-Apr-22	10:08	36	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Current too strong
522MA22-VT39-3	MA22-VT39-GP-3.1, 522MA22-VT39-GP-3.2, 5	22-May-22	6:06	36	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	compacted sand with worm tubes, anemones, crab holes, sponges	Accepted	
522MA22VT40-1	0-DT-1, 522MA22-VT40-GP-1.1,522MA22-VT4	7-Jun-22	16:06	32	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	FLAT SAND TO RSD TO FLAT SAND	Accepted	
522MA22-VT41-1	1-DT-1, 522MA22-VT41-GP-1.1, 522MA22-VT4	21-May-22	22:59	33	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Current and sea state too strong and beacon lost
522MA22-VT41-2	GP-2.1, 522MA22-VT41-GP-2.2, 522MA22-VT4	22-May-22	4:40	32	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with ripples, (RSD), mollusks	Accepted	
522MA22VT42-1	2-DT-1, 522MA22-VT42-GP-1.1,522MA22-VT4	7-Jun-22	0:00	32	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	FLAT SAND	Accepted	
522MA22-VT43-1	522MA22-VT43-1, 522MA22-VT43-1 Nav	14-Apr-22	18:41	37	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Sea state too strong current on bottom pushing ROV around
522MA22-VT43-1	, 522MA22-VT43-GP-1.1, 522MA22-VT43-GP-	21-May-22	21:00	30	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	aborted run before SOL, poor sea state
522MA22-VT43-2	MA22-VT43-GP-2.1, 522MA22-VT43-GP-2.2, 5	21-May-22	22:16	30	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand, sand dollar field, skates and crabs	Accepted	

ROV Transect Field Log

Job #:	J22570			Client:	Vineyard Wind Northeast									Date Range:	April 10, 2022 -
Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522MA22VT44-1	4-DT-1, 522MA22-VT44-GP-1.1,522MA22-VT4	7-Jun-22	18:29	29	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	FLAT SAND	Accepted	
522MA22-VT45-1	-DT-1.1, 522MA22-VT45-DT-1.2, 522MA22-V	21-May-22	15:51	31	High	Y	Y	Y	Y	N	N	Cody Maki/Jasmine Baloch	Redo	Rejected	USBL failure
522MA22-VT45-2	2-VT45-2, 522MA22-VT45-GP-2, 522MA22-V	21-May-22	16:29	31	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand with ripples, crabs, fish, and small sharks	Accepted	
522MA22-VT46-1	6-DT-1, 522MA22-VT46-GP-1.1, 522MA22-VT	7-Jun-22	19:36	34	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	sand with ripples and algae	Accepted	
522MA22-VT47-1	522MA22-VT47-1,522MA22-VT47-1 Nav	18-Apr-22	7:05	38	High	Y	N	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Current too strong
522MA22-VT47-2	522MA22-VT47-2, 522MA22-VT47-2 Nav	18-Apr-22	7:35	38	High	Y	N	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Current too strong
522MA22-VT47-3	MA22-VT43-GP-3.2, 522MA22-VT43-GP-3.3, 5	21-May-22	18:34	38	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand with ripples that turns into flat sand, sea	Accepted	
522MA22-VT48-1	T48-1, 522MA22-VT48-DT-1, 522MA22-VT48-(	7-Jun-22	3:44	40	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	sand with giant ripples	Accepted	
522MA22VT49-1	MA22-VT49-GP-1.1,522MA22-VT49-GP-1.2,52	7-Jun-22	15:16	36	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	RSD TO FLAT SAND	Accepted	
522MA22-VT50-1	522MA22-VT50-1, 522MA22-VT50-DT-1	6-Jun-22	21:59	30	Low	Y	Y	Y		N	N	Cody Maki/Jasmine Baloch	isolated boulders in sand	Accepted	
522MA22-VT51-1	1-DT-1, 522MA22-VT51-GP-1.1,522MA22-VT5	6-Jun-22	20:59	30	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	boulder field	Accepted	
522MA22-VT52-1	MA22-VT52-GP-1.1,522MA22-VT52-GP-1.2,5	6-Jun-22	19:52	30	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	boulder field	Accepted	
522MA22-VT53-1	3-DT-1, 522MA22-VT53-GP-1.1, 522MA22-VT5	6-Jun-22	0:00	34	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	SAND, boulder field	Accepted	
522MA22-VT54-1	MA22-VT54-GP-1.1, 522MA22-VT54-GP-1.2, 5	6-Jun-22	14:53	34	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	boulder field	Accepted	
522MA22-VT55-1	2-VT55-1, 522MA22-VT55-DT-1, 522MA22-VT	6-Jun-22	0:22	38	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	flat sand with giant boulders	Accepted	
522MA22-VT56-1	2-VT56-1, 522MA22-VT56-DT-1, 522MA22-VT	6-Jun-22	3:26	19	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	gravelly sand with boulders	Accepted	
522MA22-VT57-1	2-VT57-1, 522MA22-VT57-DT-1, 522MA22-VT	6-Jun-22	5:05	21	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Vessel Positioning
522MA22-VT57-2	2-VT57-2, 522MA22-VT57-DT-2, 522MA22-VT	6-Jun-22	5:30	21	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Vessel Positioning
522MA22-VT57-3	522MA22-VT57-3, 522MA22-VT57-GP3.1	6-Jun-22	6:33	21	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Rejected	FAILURE TO RECORD DT
522MA22-VT57-4	22MA22-VT57-GP4.1,522MA22-VT57-GP4.2,5	6-Jun-22	11:26	21	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	Redo	Aborted	Vessel Positioning
522MA22-VT57-5	MA22-VT57-GP-5.1, 522MA22-VT57-GP-5.2, 5	6-Jun-22	12:26	20	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	boulder field	Accepted	
522MA22-VT58-1	2-VT58-1, 522MA22-VT58-DT-1, 522MA22-VT5	7-Jun-22	20:20	39	High	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	FLAT SAND	Accepted	
522MA22-VT59-1	T59-1, 522MA22-VT59-DT-1, 522MA22-VT59-(	11-Jun-22	6:04	42	low	Y	Y	Y	Y	Y	Y	Brian cherer/Addison Ochs	flat sand to sand ripples	Accepted	nav video does not show either beacon position but there is a DAT file

Appendix C-3: Underwater Video Field Log: CT OECC

ROV Transect Field Log

Job #:	J22570			Client:								Vineyard Wind Northeast		Date Range:	April 10, 2022 -
Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-VT005-7	522CT22-VT005-7	4-Sep-22	13:30	0.5625	69	N	Y	Y		N	N	Cody Maki/Jasmine Baloch	Flat sand	ABORTED	Vessel positioning and rov position
522CT22-VT005-8	5-8, 522CT22-VT005-DT-8, 522CT22-	4-Sep-22	14:02	69		Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Flat sand	ACCEPTED	
522CT22-VT01-1	522CT22-VT01-1	22-Apr-22	10:14	63	High	Y	Y	N	N	Y	N	Ken Craigue/Addison Ochs	Redo	Rejected	Current too strong
522CT22-VT01-2	522CT22-VT-01-2	23-Apr-22	7:50	63	High	Y	N	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Redo	Rejected	Current too strong
522CT22-VT01-3	01-3, 522CT22-VT01-DT-3, 522CT22-	22-May-22	11:05	63	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Rejected	Beacon dropped out making position unknown
522CT22-VT01-4	-4, 522CT22-VT01-GP-4.1, 522CT22-	22-May-22	12:25	63	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Rejected	No Beacon
522CT22-VT01-5	T01-5, 522CT22-VT01-DT-5, 522CT22	22-May-22	12:55	63	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Rejected	ROV not in water in time
522CT22-VT01-6	.1, 522CT22-VT01-GP-6.2, 522CT22-	22-May-22	13:05	63	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand, starfish and small sharks	Accepted	
522CT22-VT03-1	522CT22-VT03-1	22-Apr-22	11:31	66	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Redo	Rejected	Current too strong
522CT22-VT03-2	2.1, 522CT22-VT03-DT-2.2, 522CT22	22-May-22	15:25	65	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Rejected	No Beacon
522CT22-VT03-3	-VT03-GP-3.1, 522CT22-VT03-GP-3.2	22-May-22	15:50	65	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand, crab holes, crab trap	Accepted	
522CT22-VT04-1	522CT22-VT04-1	22-Apr-22	17:17	67	Low	Y	N	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Redo	Rejected	Current too strong
522CT22-VT045-2	22CT22-VT045-2, 522CT22-VT45-DT-	4-Sep-22	0:44	32		N	Y	Y		N	N	Cody Maki/Addison Ochs	Sand waves	ABORTED	currents too strong
522CT22-VT045-4	522CT22-VT045-4	4-Sep-22	4:55	32		N	Y	Y		N	N	Cody Maki/Addison Ochs	Sand waves	ABORTED	Vessel positioning
522CT22-VT045-5	5-5, 522CT22-VT045-DT-5, 522CT22-	4-Sep-22	5:23	32		Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	SAND WAVES, gravely sand, sandy gravel	ACCEPTED	
522CT22-VT05-4	522CT22-VT05-4, (522CT22-VT05-1, 522CT22-VT05-2, 522CT22-VT05-3 aborted lines no video)	22-Apr-22	16:14	67	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Redo	Rejected	Current too strong ** Conducted 4 shoots w/ comig changes i.e. vessel approach and conduct, removed weight
522CT22-VT05-5	522CT22-VT05-5	26-Apr-22	7:42	68	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Flat sand/ripples, crabs	Rejected	Rejected by TRC duringon shore analysis
522CT22-VT05-6	-6, 522CT22-VT05-DT-6, 522CT22-VT	22-May-22	18:10	67	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Rejected	Apos malfunction
522CT22-VT05-7	-VT05-GP-7.1, 522CT22-VT05-GP-7.2	22-May-22	18:40	67	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Flat sand, gorgonians and crab holes	Accepted	
522CT22-VT057-10	2CT22-VT57-10, 522CT22-VT57-DT-	8-Oct-22	5:50	65		Y	Y	Y		N	N	Tristan Andrews/Jasmine Baloch		Aborted	SOL over by 30-50 m
522CT22-VT057-11	522CT22-VT57-DT-11	8-Oct-22	6:06	65		N	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	ROV going 1.1 kts
522CT22-VT057-12	057-12 PENDING, 522CT22-VT57-DT-	9-Oct-22	5:08	67		Y	Y	Y		N	N	Tristan Andrews/Jasmine Baloch		PENDING	VIDEO QUALITY. PENDING VIDEO COMBINATION
522CT22-VT057-13	2CT22-VT057-13, 522CT22-VT57-DT-	9-Oct-22	6:06	65		Y	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	HIGH TURBIDITY
522CT22-VT057-14	2CT22-VT057-14, 522CT22-VT57-DT-	9-Oct-22	10:49	65		Y	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	CURRENT TOO STRONG
522CT22-VT057-2	2CT22-VT057-2, 522CT22-VT057-DT	7-Oct-22	11:08	65		Y	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	
522CT22-VT057-3	22CT22-VT57-3, 522CT22-VT57-DT-	7-Oct-22	15:55	65		Y	Y	Y		N	N	Cody Maki/Haley Eiben		ABORTED	Current too strong, tether not long enough
522CT22-VT057-4	22CT22-VT57-4, 522CT22-VT57-DT-	7-Oct-22	16:24	65		Y	Y	Y		N	N	Cody Maki/Haley Eiben		ABORTED	Tether failed and stopped video
522CT22-VT057-5	22CT22-VT57-5, 522CT22-VT57-DT-	7-Oct-22	21:53	65		Y	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	Current too strong
522CT22-VT057-6	T57-6 PENDING, 522CT22-VT57-DT-	7-Oct-22	22:26	65		Y	Y	Y		N	N	Tristan Andrews/Haley Eiben	Ladder at 22:50	PENDING	Tether caught on marine debris. PENDING VIDEO COMBINATION
522CT22-VT057-7	22CT22-VT57-7, 522CT22-VT57-DT-	7-Oct-22	23:10	65		Y	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	Current too strong/too turbid
522CT22-VT057-8	22CT22-VT57-8, 522CT22-VT57-DT-	8-Oct-22	4:47	65		Y	Y	Y		N	N	Tristan Andrews/Jasmine Baloch		ABORTED	
522CT22-VT057-9	22CT22-VT57-9, 522CT22-VT57-DT-	8-Oct-22	5:10	65		Y	Y	Y		N	N	Tristan Andrews/Jasmine Baloch		ABORTED	Current too strong
522CT22-VT058-4	8-4, 522CT22-VT058-DT-4, 522CT22-	8-Oct-22	17:41	59		Y	Y	Y		Y	Y	Cody Maki/Haley Eiben	Muddy sand w/ shell hash	ACCEPTED	
522CT22-VT059-0	522CT22-VT059-0	7-Oct-22	3:36	52		N	Y	Y		N	N	Tristan Andrews/Jasmine Baloch		ABORTED	camera out
522CT22-VT059-1	22CT22-VT59-1, 522CT22-VT059-DT-	7-Oct-22	4:13	52		Y	Y	Y		Y	Y	Tristan Andrews/Jasmine Baloch		REJECTED	ENVIRONMENTAL and dat file
522CT22-VT059-2	522CT22-VT059-2	7-Oct-22	5:00	52		N	Y	Y		N	N	Tristan Andrews/Jasmine Baloch		ABORTED	
522CT22-VT059-3	522CT22-VT59-DT-3	9-Oct-22	11:14	50		N	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	Camera feed dropped out
522CT22-VT059-4	VT059-4, 522CT22-VT059-DT-4, GoP	8-Oct-22	16:17	50		Y	Y	Y		N	N	Cody Maki/Haley Eiben	Muddy sand w/shell rubble. Sea urchins, squ	ACCEPTED	

ROV Transect Field Log

Job #:	J22570			Client:								Vineyard Wind Northeast		Date Range:	April 10, 2022 -
Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-VT070-2	0-2, 522CT22-VT070-DT-2, 522CT22-	8-Oct-22	23:09	95		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	Boulders w/ encrusting organisms, 100% sh	ACCEPTED	
522CT22-VT07-1	522CT22-VT07-1	26-Apr-22	9:00	68	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Flat sand/some ripples/depressions	Accepted	
522CT22-VT084-2	4-2, 522CT22-VT084-DT-2, 522CT22-	30-Sep-22	16:40	11		Y	Y	Y		Y	Y	Cody Maki/Haley Eiben	Muddy sand, shell rubble	ACCEPTED	
522CT22-VT087-3	7-3, 522CT22-VT087-DT-3, 522CT22-V	30-Sep-22	9:36	39		Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Sand w/ripples	ACCEPTED	
522CT22-VT09-1	522CT22-VT09-1	22-Apr-22	6:52	69	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Flat sand/ripples, crabs	Accepted	
522CT22-VT098-1	522CT22-VT098-1	7-Oct-22	9:05	12		N	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	
522CT22-VT098-2	22CT22-VT98-2, 522CT22-VT98-DT-	7-Oct-22	9:28	12		Y	Y	Y		N	N	Cody Maki/Jasmine Baloch		ABORTED	
522CT22-VT098-3	8-3, 522CT22-VT98-DT-3, 522CT22-V	7-Oct-22	9:45	12		Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Boulder field, sand	ACCEPTED	
522CT22-VT100-1	2CT22-VT100-1, 522CT22-VT100-DT	6-Oct-22	4:05	50		N N	N			N	N	Tristan Andrews/Jasmine Baloch		ABORTED	ROV entanglement
522CT22-VT100-2	0-2, 522CT22-VT100-DT-2, 522CT22-	8-Oct-22	16:59	50		Y	Y	Y		Y	Y	Cody Maki/Haley Eiben	Boulder field w/ encrusting organisms, mudd	ACCEPTED	
522CT22-VT101-1	-1, 522CT22-VT101-DT-1, 522CT22-V	1-Oct-22	4:33	41		Y	Y	Y		Y	Y	Tristan Andrews/Jasmine Baloch	Muddy sand with shell hash and crepidiula	ABORTED	DAT FILE GAPS & CURRENT TOO STRONG
522CT22-VT101-2	1-2, 522CT22-VT101-DT-2, 522CT22-	6-Oct-22	3:13	42		Y	Y	Y		Y	Y	Tristan Andrews/Jasmine Baloch	CREPIDULA REEF, MUDDY SAND	ACCEPTED	SOL over
522CT22-VT102-1	522CT22-VT102-DT-1	30-Sep-22	19:31	22		N	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	TETHER GOT DRAGGED BY BOAT
522CT22-VT102-2	2CT22-VT102-2, 522CT22-VT102-DT	30-Sep-22	20:22	22		Y	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	ROV MOTORS SHUT DOWN
522CT22-VT102-3	2-3, 522CT22-VT102-DT-3, 522CT22-	30-Sep-22	21:13	22		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	Sand waves with shell hash and boulders	ACCEPTED	may be sooner ROV dropped on the line
522CT22-VT104-1	522CT22-VT104-1	4-Sep-22	15:11	69		Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Flat sand	ACCEPTED	
522CT22-VT105-1	522CT22-VT105-DT-1	30-Sep-22	14:58	19		Y	Y	N		N	N	Cody Maki/Haley Eiben		ABORTED	BOAT DRIFTING OVER LINE
522CT22-VT105-2	522CT22-VT105-DT-2	30-Sep-22	15:13	19		Y	Y	Y		N	N	Cody Maki/Haley Eiben		ABORTED	BOAT CUT TETHER
522CT22-VT105-3	522CT22-VT105-DT-3	30-Sep-22	15:33	19		Y	Y	Y		N	N	Cody Maki/Haley Eiben		REJECTED	DAT FILE FAILED
522CT22-VT105-4	6-4, 522CT22-VT105-DT-4, 522CT22-V	1-Oct-22	7:41	19		Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Sand w/ripples and shell hash, crepidula	ACCEPTED	
522CT22-VT106-1	6-1, 522CT22-VT106-DT-1, 522CT22-	30-Sep-22	17:34	16		Y	Y	Y		Y	Y	Cody Maki/Haley Eiben	Flat muddy sand with shell hash	ACCEPTED	
522CT22-VT11-1		25-Apr-22	6:54		High							Ken Craigue/Addison Ochs	Redo	Rejected	Loss of control; intermittant video
522CT22-VT11-2		25-Apr-22	13:26		High							Ken Craigue/Addison Ochs	Redo	Rejected	Outlander shorted out
522CT22-VT11-3	, 522CT22-VT11-DT-3, 522CT22-VT1	23-May-22	18:34	68	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand, starfish, flat fish, gorgonians	Accepted	
522CT22-VT13-1	522CT22-VT13-1	23-Apr-22	12:28	63	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Sandy; some ripples	Accepted	
522CT22-VT14-1	-1, 522CT22-VT14-GP-1.1, 522CT22-	4-Jun-22	19:58	62	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Vessel of line
522CT22-VT14-2	.1, 522CT22-VT14-GP-2.2, 522CT22-	4-Jun-22	20:42	62	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	ROV tether severed
522CT22-VT15-1	522CT22-VT15-1	23-Apr-22	13:48	58	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Redo	Rejected	Turbidity -- no visibility
522CT22-VT15-2	522CT22-VT15-2	23-Apr-22	14:56	58	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Sand rippling	Accepted	
522CT22-VT16-1	.1, 522CT22-VT16-GP-1.2, 522CT22-	4-Jun-22	18:15	60	Low	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Flat sand with starfish	Accepted	
522CT22-VT17-1	522CT22-VT17-1	23-Apr-22	17:13	58	High	N	N	N	N	N	N	Ken Craigue/Addison Ochs	Redo	Rejected	Loss of thrusters -- tried reposition & vessel could not hold line
522CT22-VT17-3	522CT22-VT17-3	26-Apr-22	11:56	59	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Sand ripples/lobes	Accepted	
522CT22-VT18-1	-VT18-GP-1.1, 522CT22-VT18-GP-1.	4-Jun-22	16:52	61	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	Flat sand with starfish	Accepted	
522CT22-VT19-1	522CT22-VT19-1	26-Apr-22	13:10	60	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Turbid	Rejected	Pending offshore review ** instances of Nav drop out/offline line track; UPDATE: Rejected by TRC during onshore analysis
522CT22-VT19-2	-VT19-GP-2.1, 522CT22-VT19-GP-2.	23-May-22	15:40	60	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand, hermit crabs, starfish, fish	Accepted	
522CT22-VT20-1	.1, 522CT22-VT20-GP-1.2, 522CT22-V	4-Jun-22	14:40	61	Low	N	Y	Y		Y	Y	Cody Maki/Addison Ochs	Redo	Rejected	No Video recording, HD only recorded for 2 mins
522CT22-VT20-2	-VT20-GP-2.1, 522CT22-VT20-GP-2.2	4-Jun-22	15:33	61	Low	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	strange linear depression in sand	Accepted	
522CT22-VT21-1	522CT22-VT21-1	26-Apr-22	14:21	60	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Small sand lobes/flat sand	Accepted	

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522CT22-VT22-1	522CT22-VT22-DT-1, 522CT22-VT22	27-May-22	4:05	57	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Flat sand with starfish and sharks	Accepted	
522CT22-VT23-1	522CT22-VT23-1	26-Apr-22	16:01	60	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Flat sand/small sand ripple to larger sand lol	Accepted	
522CT22-VT24-1	, 522CT22-VT24-DT-1, 522CT22-VT2	27-May-22	5:18	57	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Compacted sand with starfish and sharks	Accepted	
522CT22-VT25-1	522CT22-VT25-1	26-Apr-22	17:22	56	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Small sand ripples/ flat silty sand at the end	Accepted	
522CT22-VT26-1	522CT22-VT26-DT-1 & 2, 522CT22-V	27-May-22	6:27	53	Low	N	Y	Y	Y	y	y	Brian Scherer/Jasmine Baloch	Redo	Rejected	HD camera recording stopped 1 min in
522CT22-VT26-2	22CT22-VT26-2, 522CT22-VT26-DT-	3-Jun-22	2:04	53	High	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	FAILURE TO MAINTAIN VESSEL HEADING
522CT22-VT27-1	, 522CT22-VT27-DT-1, 522CT22-VT2	23-May-22	23:19	49	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Technical Review Footage
522CT22-VT27-2	, 522CT22-VT27-DT-2, 522CT22-VT2	24-May-22	0:18	49	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Flat sand, shell cover, small sharks, conger	Accepted	
522CT22-VT28-1	, 522CT22-VT28-DT-1, 522CT22- VT2	4-Jun-22	4:31	47	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	TECH, VESSEL HEADING
522CT22-VT28-2	, 522CT22-VT28-DT-2, 522CT22-VT2	4-Jun-22	5:48	47	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	TECH, VESSEL HEADING
522CT22-VT28-3	22CT22-VT28-3, 522CT22-VT28-DT-	4-Jun-22	6:22	47	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Strong current, boat moving too fast
522CT22-VT28-4	, 522CT22-VT28-DT-4, 522CT22-VT2	4-Jun-22	8:30AM	47	Low	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	flat sand with small depressions	Accepted	
522CT22-VT29-1		24-Apr-22	18:30		High							Ken Craigue/Addison Ochs	Redo	Rejected	Overheated power supply and blew up board
522CT22-VT29-2	-VT29-GP-2.2, 522CT22-VT29-GP-2.1	23-May-22	3:47	45	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with ripples and turns flat, skates, starf	Accepted	
522CT22-VT30-1	, 522CT22-VT30-DT-1, 522CT22-VT3	26-May-22	3:57	40	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with shell cover and sea robins	Accepted	
522CT22-VT31-1	522CT22-VT31-1	24-Apr-22	6:50	37	High	Y	Y	Y	Y	Y	Y	Ken Craigue/Addison Ochs	Flat sand/ripples, crabs	Rejected	Rejected by TRC duringon shore analysis
522CT22-VT31-2	, 522CT22-VT31-DT-2, 522CT22-VT3	24-May-22	2:15	37	High	Y		Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with shell cover	Rejected	Technical Beacon loss
522CT22-VT31-3	NO FILES	24-May-22	3:45	37	High	N	N	N	N	N	N	Brian Scherer/Jasmine Baloch	Sand With Shell Cover	Aborted	Too close to Sol to Launch
522CT22-VT31-4	T22-VT31-4, 522CT22-VT31-GP-4.1 T	24-May-22	4:00	37	High	N	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sans with small variable mounds and ripples	Rejected	No Hd video
522CT22-VT31-5	-5, 522CT22-VT31-GP-5.1, 522CT22-	30-May-22	16:09	37	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sand waves in first half, largely homogenous	Accepted	
522CT22-VT32-1	, 522CT22-VT32-DT-1, 522CT22-VT3	26-May-22	5:13	16	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with ripples and gravel patch	Accepted	
522CT22-VT33-1	-VT33-GP-1.1, 522CT22-VT33-GP-1.2	23-May-22	6:07	17	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with shell hash	Aborted	Current too strong
522CT22-VT33-2	T33-2, 522CT22-VT33-DT-2, 522CT22	23-May-22	7:18	17	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Current too strong
522CT22-VT33-3	-3, 522CT-VT33-DT-3, 522CT22-VT33	24-May-22	5:30	17	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Rejected	Rejected video pointed too steep at seafloor
522CT22-VT33-4	, 522CT22-VT33-DT-4, 522CT22-VT3	25-May-22	1:36	17	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	
522CT22-VT33-5	22CT22-VT33-5, 522CT22-VT33-DT-	25-May-22	2:10	17	High	Y	Y	Y	Y	N	N	Brian Scherer/Jasmine Baloch	Crepidula and cobble	Accepted	found edge of the feature
522CT22-VT34-1	, 522CT22-VT34-DT-1, 5222CT22-VT	24-May-22	6:46	19	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Aborted	Aborted before SOL due to inability to get signal from beacon.
522CT22-VT34-2	, 522CT22-VT34-DT-2, 522CT22-VT3	24-May-22	7:18	19	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Flat sand with shell cover	Accepted	
522CT22-VT35-1	522CT22-VT35-DT-1 & 2, 522CT22-V	26-May-22	6:13	20	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Rejected	Technical missed SOL
522CT22-VT35-2	22CT22-VT35-2, 522CT22-VT35-DT-	30-May-22	3:19	17-20	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Tech- no splash
522CT22-VT35-3	-3, 522CT22-VT35-GP-3.1, 522CT22-	30-May-22	3:40	17-20	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Tech- no built in feed
522CT22-VT35-4	-VT35-GP-4.1, 522CT22-VT35-GP-4.2	30-May-22	4:19	17-20	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Small boulders, turbid water, shell hash	Accepted	
522CT22-VT36-1	22CT22-VT36-1, 522CT22-VT36-DT-	24-May-22	9:33	22	High	Y	Y	Y	Y	N	N	Brian Scherer/Ben Hall	Redo	Aborted	Aborted, vessel moving too fast.
522CT22-VT36-2	, 522CT22-VT36-DT-2, 522CT22-VT2	24-May-22	9:58	22	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Rejected	rejected by onboard QA. Video unclear due to speed.
522CT22-VT36-3	, 522CT22-VT33-DT-3, 522CT22-VT3	25-May-22	4:20	21	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Crepidula and cobble	Accepted	
522CT22-VT37-1	2-VT37-GP-1.1, 522CT22-VT37-GP-1	30-May-22	5:23	21	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand bottom with cobble-boulder rocks atop	Accepted	
522CT22-VT38-1	, 522CT22-VT38-DT-1, 522CT22-VT3	24-May-22	11:35	33	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Technical/ FAILURE TO GET ON LINE
522CT22-VT38-2	, 522CT22-VT38-DT-2, 522CT22-VT3	24-May-22	12:20	33	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sand with ripples, small boulders	Accepted	GoPro ran out of battery

ROV Transect Field Log

Job #:	J22570			Client:								Vineyard Wind Northeast		Date Range:	April 10, 2022 -
Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-VT39-1	22-VT39-DT-1, 522CT22-VT39-gp-1.1	26-May-22	20:24	30	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT39-2	-2, 522CT22-VT39-GP-2.1, 522CT22-	29-May-22	22:10	30	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sandy bottom, sand dollars and gravel/shell	Accepted	
522CT22-VT40-1	1, 522CT22-VT40-DT-1, 522CT22-VT4	24-May-22	13:53	35	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand with mollusks	Accepted	
522CT22-VT41-1	, 522CT22-VT41-DT-1, 522CT22-VT4	26-May-22	19:30	26	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand with shell cover, and bushy bryozoans	Accepted	
522CT22-VT42-1	, 522CT22-VT42-DT-1, 522CT22-VT4	24-May-22	14:40	26	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Aborted due to ROV malfunction
522CT22-VT42-2	2, 522CT22-VT42-DT-2, 522CT22-VT4	24-May-22	15:40	26	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Environmental, currents too strong
522CT22-VT42-3	3, 522CT22-VT42-DT-3, 522CT22-VT4	24-May-22	16:05	26	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Environmental, currents too strong
522CT22-VT42-4	4, 522CT22-VT42-DT-4, 522CT22-VT4	25-May-22	13:31	28	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sand with ripples and sand collars	Accepted	
522CT22-VT43-1	1, 522CT22-VT43-DT-1, 522CT22-VT4	25-May-22	19:28	27	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	sand with ripples	Accepted	
522CT22-VT44-1	22-VT44-DT-1, 522CT22-VT44-GP-1.1	31-May-22	3:28	31	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Currents
522CT22-VT44-2	22-VT44-DT-2, 522CT22-VT44-GP-2.1	31-May-22	4:10	31	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Currents
522CT22-VT45-1	45-1, 522CT22-VT45-DT-1, 522CT22-	26-May-22	13:19	34	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Aborted due to currents
522CT22-VT45-3	3, 522CT22-VT45-DT-3, 522CT22-VT45	18-Jun-22	8:53	35	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Addison Ochs	Sand waves, gravel and shell	Accepted	
522CT22-VT46-1	22-VT46-DT-1, 522CT22-VT46-GP-1.1	30-May-22	10:53	32	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	High turbidity, poor visibility	Rejected	Environmental--visibility
522CT22-VT46-2	-2, 522CT22-VT46-GP-2.1, 522CT22-	31-May-22	13:54	32	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Shell hash, strong current, turbid	Rejected	Currents and then ROV moving too fast, turbid
522CT22-VT46-3	46-3, 522CT22-VT46-DT-3, 522CT22-	2-Jun-22	21:04	31	High	Y	Y	Y		Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Currents
522CT22-VT46-4	46-4, 522CT22-VT46-DT-4, 522CT22-	3-Jun-22	15:02	31	High	Y	Y	Y		Y	Y	Cody Maki/Addison Ochs	Gravel with cobble	Accepted	
522CT22-VT48-1	-VT48-GP-1.1, 522CT22-VT48-GP-1.2	31-May-22	12:58	28	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sandy bottom, sand waves, some small bou	Accepted	
522CT22-VT49-1	9-1, 522CT22-VT49-DT-1, 522CT22-	5-Oct-22	20:40	17		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	COBBLE, SHELL HASH, ENCRUSTING OR	ACCEPTED	SOL -10m
522CT22-VT50-1	, 522CT22-VT50-DT-1, 522CT22-VT5	26-May-22	8:50	30	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Aborted	Aborted, need to hold off for a little while for slack tide.
522CT22-VT50-1	0-1, 522CT22-VT50-DT-1, 522CT22-	5-Oct-22	19:55	28		Y	Y	Y		Y	Y	Cody Maki/Haley Eiben	BOULDER FIELD, COBBLE, MANY FISH	ACCEPTED	dat file starts 17m after line
522CT22-VT50-2	2, 522CT22-VT50-DT-2, 522CT22-VT5	26-May-22	9:26	30	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Rejected	Environmental, currents too strong
522CT22-VT50-3	, 522CT22-VT50-DT-3, 522-CT-22-VT	27-May-22	10:24	34	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Boulder outcrops; flat sand	Accepted	
522CT22-VT51-1	-VT51-GP-1.1, 522CT22-VT51-GP-1.2	26-May-22	16:17	55	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sand with dense shell cover and cobble, cra	Accepted	
522CT22-VT52-1	, 522CT22-VT52-DT-1, 522CT22-VT5	25-May-22	15:52	85	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Boulder outcrops; flat sand	Accepted	
522CT22-VT53-1	-1, 522CT22-VT53-GP-1.1, 522CT22-	29-May-22	19:04	79	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Cobble and shell bottom	Accepted	
522CT22-VT54-1	1, 522CT22-VT54-DT-1, 522CT22-VT5	25-May-22	16:40	77	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Environmental, currents too strong
522CT22-VT54-2	2, 522CT22-VT52-DT-2, 522CT22-VT5	26-May-22	22:23	77	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand with shell cover and gravel	Accepted	
522CT22-VT55-1	1.1, 522CT22-VT55-GP-1.2, 522CT22	31-May-22	6:10	82	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Cobble and shell bottom, large rope, squid	Accepted	
522CT22-VT56-1	22CT22-VT56-1, 522CT22-VT56-DT-	25-May-22	17:30	73	High	Y	Y	Y	Y	N	N	Cody Maki/Ben Hall	Redo	Aborted	Currents
522CT22-VT56-2	-2, 522CT22-VT56-GP-2.1, 522CT22-	29-May-22	19:47	73	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Strong currents--Redo	Rejected	Environmental, currents too strong
522CT22-VT56-3	-3, 522CT22-VT56-GP-3.1, 522CT22-	31-May-22	7:40	73	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Strong currents--Redo	Aborted	Current too strong
522CT22-VT56-4	.1, 522CT22-VT56-GP-4.2, 522CT22-	31-May-22	8:16	73	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Strong current, shell hash	Accepted	
522CT22-VT57-1	T57-1, 522CT22-VT57-DT-1, 522CT22	31-May-22	9:08	67	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Aborted	Strong current, boat moving too fast
522CT22-VT58-1	, 522CT22-VT58-DT-1, 522CT22-VT5	25-May-22	21:36	60	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Environmental, currents too strong
522CT22-VT58-2	2-VT58-GP-2.1, 522CT22-VT58-GP-2.	31-May-22	0:30	59	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Difficulty in positioning vessel
522CT22-VT58-3	T22-VT58-DT-3, 522CT22-VT58-GP-3.	31-May-22	1:18	59	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Boat unable to to get ROV on line in time
522CT22-VT58ALT-1	T22-VT58ALT-1, 522CT22-VT58LT-D	3-Jun-22	8:49	59	High	Y	Y	Y		Y	Y	Brian Scherer/Addison Ochs	Redo	Aborted	FISHING BOAT ENTERED THE TRANSECT AREA

ROV Transect Field Log

Job #:	J22570			Client:								Vineyard Wind Northeast		Date Range:	April 10, 2022 -
Site ID	File Names	Date Site was recorded	Time Site was recorded	Avg Depth (m)	Priority	HD Video Recorded? (Y/N)	Nav Video Recorded? (Y/N)	Videos uploaded? (Y/N)	Videos backed up? (Y/N)	GoPro Recorded ? (Y/N)	GoPro Uploaded ? (Y/N)	Operator/tech who recorded/processed site	Description: Any feature, or special sightings of note?	Accepted/ Rejected?	If rejected give a brief reason, Special Processing, Procedure Deviations, or Other comments
522CT22-VT60-1	, 522CT22-VT60-DT-1, 522CT22-VT6	25-May-22	8:11	48	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Sand with shell and cobble	Accepted	
522CT22-VT61-1	22CT22-VT61-1, 522CT22-VT61-DT-	30-Sep-22	22:03	38		Y	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	CURRENT TOO STRONG
522CT22-VT61-2	22CT22-VT61-2, 522CT22-VT61-DT-	30-Sep-22	22:29	38		Y	Y	Y		N	N	Tristan Andrews/Haley Eiben		ABORTED	CURRENT TOO STRONG
522CT22-VT61-3	522CT22-VT61-3	1-Oct-22	2:22	38		Y	Y	N		Y	N	Tristan Andrews/Jasmine Baloch		ABORTED	CURRENT TOO STRONG
522CT22-VT61-4	-4, 522CT22-VT61-DT-4, 522CT22-V	1-Oct-22	3:50	38		Y	Y	Y		Y	Y	Tristan Andrews/Jasmine Baloch	Gravel mix, cobble and crepidula, dense tun	ACCEPTED	
522CT22-VT62-1	l, 522CT22-VT62-DT-1, 522CT22-VT6	24-May-22	21:50	28	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT62-2	, 522CT22-VT62-DT-2, 522CT22-VT6	25-May-22	7:01	28	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Sand with shell cover	Accepted	
522CT22-VT63-1	63-1, 522CT22-VT63-DT-1, 522CT22-	27-May-22	17:58	23	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Redo	Aborted	Environmental, currents too strong
522CT22-VT63-2	2, 522CT22-VT63-DT-2, 522CT22-VT	27-May-22	18:10	23	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT63-3	3.1, 522CT22-VT63-DT-3.2, 522CT22	30-May-22	0:14	23	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Tech-beacon and recording issues
522CT22-VT63-4	3-4, 522CT22-VT63-DT-4.1, 522CT22	30-May-22	0:38	23	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Tech-beacon; Environmental--turbid
522CT22-VT63-5	22-VT63-DT-5, 522CT22-VT63-GP-5.	30-May-22	0:57	23	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT63-6	6.1, 522CT22-VT63-DT-6.2, 522CT22	30-May-22	20:28	23	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT63-7	22-VT63-DT-7, 522CT22-VT63-GP-7.	31-May-22	2:10	23	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Jasmine Baloch	Redo	Aborted	Currents
522CT22-VT64-1	, 522CT22-VT64-DT-1, 522CT22-VT6	24-May-22	18:30	19	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	sand with red, green algae and bushy bryoz	Accepted	
522CT22-VT65-1	l, 522CT22-VT65-DT-1, 522CT22-VT6	25-May-22	23:18	10	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sand with ripples polychaete tubes and alga	Accepted	
522CT22-VT66-1	, 522CT22-VT66-DT-1, 522CT22-VT6	24-May-22	19:24	13	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Flat sand with dimples, algae and fish	Accepted	
522CT22-VT69-1	-VT69-GP-1.1, 522CT22-VT69-GP-1.1	30-May-22	7:04	57-73	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Shell hash on sand bottom, steep gradient	Accepted	
522CT22-VT70-1	22CT22-VT70-1, 522CT22-VT70-DT-	5-Oct-22	18:56	95		Y	Y	Y		Y	N	Cody Maki/Haley Eiben		ABORTED	CURRENT TOO STRONG
522CT22-VT71-1	1.2, 522CT22-VT71-DT-1.3, 522CT22	30-May-22	7:51	61-68	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Rejected	Tech-ROV computer crash, couldn't make line in time
522CT22-VT71-2	22-VT71-DT-2, 522CT22-VT71-GP-2.	30-May-22	8:14	61-68	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Aborted	Tech--boat couldn't drive line
522CT22-VT71-3	22-VT71-DT-3, 522CT22-VT71-GP-3.	30-May-22	8:38	61-68	Low	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Aborted	Tech--boat couldn't drive line
522CT22-VT71-4	22-VT71-DT-4, 522CT22-VT71-GP-4.	30-May-22	19:12	61	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT71-5	22-VT71-DT-5, 522CT22-VT71-GP-5	30-May-22	19:28	61	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Redo	Aborted	Environmental, currents too strong
522CT22-VT72-1	522CT22-VT72-DT-1 & 2, 522CT22-V	26-May-22	10:26	24	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Redo	Aborted	Aborted due to loss of control of the vessel before the SOL
522CT22-VT72-2	NO FILES	27-May-22	11:12	24	High							Brian Scherer/Ben Hall		Aborted	vessel not in position
522CT22-VT72-3	-VT72-GP-3.1, 522CT22-VT72-GP-3.	30-May-22	12:30	24	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Sand waves, sparse shell hash	Accepted	
522CT22-VT73-1	2-VT73-DT-1.2, 522CT22-VT73-GP-1.	26-May-22	17:50	23	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand with shell cover	Accepted	
522CT22-VT74-1	1, 522CT22VT74-DT-1, 522CT22-VT7	27-May-22	20:23	19	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Flat sand with lots of spider crabs	Accepted	
522CT22-VT75-1	l, 522CT22-VT75-DT-1, 522CT22-VT7	27-May-22	19:34	17	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand with ripples and algae	Accepted	
522CT22-VT76-1	-1, 522CT22-VT76-GP-1.1, 522CT22-	27-May-22	14:42	14	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand with shell cover	Accepted	
522CT22-VT77-1	-1, 522CT22-VT77-GP-1.1, 522CT22-	27-May-22	13:49	12	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand with shell cover	Accepted	
522CT22-VT78-1	l, 522CT22-VT78-DT-1, 522CT22-VT7	26-May-22	11:31	10	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Flat sand with sparse algae cover, mollusks	Accepted	
522CT22-VT79-1	& 2, 522CT22-VT79-GP-1.1, 522CT2	26-May-22	17:10	22	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand, crabs and mollusks	Accepted	
522CT22-VT80-1	, 522CT22-VT80-DT-1, 522CT22-VT8	27-May-22	21:20	16	High	Y	Y	Y	Y	Y	Y	Cody Maki/Jasmine Baloch	Sand with dense algae cover	Aborted	ROV batteries died during VT
522CT22-VT80-2	-VT80-GP-2.1, 522CT22-VT80-GP-2.	30-May-22	9:41	14	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Flat sandy bottom, sparse veg, old fishing ge	Accepted	
522CT22-VT81-1	-VT81-GP-1.1, 522CT22-VT81-GP-1.	27-May-22	16:04	12	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand with mollusks	Accepted	
522CT22-VT82-1	-1, 522CT22-VT82-GP-1.1, 522CT22-	27-May-22	15:47	13	High	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	sand with rock and shell cover	Accepted	

ROV Transect Field Log															
Job #:	J22570			**Client:**				Vineyard Wind Northeast						**Date Range:**	April 10, 2022 -
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522CT22-VT83-1	22CT22-VT83-1, 522CT22-VT83-DT-	27-May-22	11:45	12	Low	Y	Y	Y	Y	N	N	Brian Scherer/Ben Hall	Redo	Aborted	Environmental, currents too strong
522CT22-VT83-2	522CT22-VT83-DT-1 & 2, 522CT22-V	27-May-22	11:45	12	Low	Y	Y	Y	Y	Y	Y	Cody Maki/Ben Hall	Flat sand with shell cover	Accepted	
522CT22-VT84-1	-1, 522CT22-VT84-DT-1, 522CT22-VT	25-May-22	10:33	11	High	Y	Y	Y	Y	Y	Y	Brian Scherer/Ben Hall	Flat sand and algae	Accepted	
522CT22-VT87-1	522CT22-VT87, 522CT22-VT82-DT-1	4-Jun-22	2:08	38	Low	Y	Y	Y		Y	Y	Brian Scherer/Jasmine Baloch	sand with ripples	Rejected	Comms issue cnav
522CT22-VT97-1	7-1, 522CT22-VT97-DT-1, 522CT22-V	5-Oct-22	21:25	27		Y	Y	Y		Y	Y	Tristan Andrews/Haley Eiben	SAND, SHELL HASH, RIPPLES, RIDGES	ACCEPTED	

Prepared by: CR ENVIRONMENTAL INC. , 639 BOXBERRY HILL RD, EAST FALMOUTH, MA 02536

CLIENT/JOB: TDI-BROOKS- CT VINEYARD WIND VIDEO TRACKLINE START & END POINTS

Aug-22

Job Coordinate Projection: UTM North, WGS-84, Zone 19 (72W-66W), Meter

NOTES:

1- Highlighted cells separate each video for the survey

2- Start and End points use the vessel's position, which was taken at the stern of the vessel at the davit and hauler

Video ID[1]	X [2]	Y [2]	Latitude	Longitude	TIME	DATE
vt-109 start	233883.08	4578855.7	41.317273	-72.1793	8:51:56	8/1/2022
vt-109 end	233647.34	4578756.51	41.316303	-72.1821	9:03:59	8/1/2022
vt-110 start	233578.32	4578840.48	41.317035	-72.1829	9:24:21	8/1/2022
vt-110 end	233831.74	4579034.68	41.318866	-72.18	9:40:23	8/1/2022
vt-111 start	233410.18	4578971.44	41.318158	-72.185	9:45:05	8/1/2022
vt-111 end	233577.07	4579138.2	41.319713	-72.1831	9:56:10	8/1/2022
vt-068 start	233417.59	4578435.03	41.313336	-72.1847	10:13:36	8/1/2022
vt-068 end	233592.53	4578676.85	41.315568	-72.1827	10:29:45	8/1/2022
vt-108 start	233813.24	4578093.54	41.310395	-72.1798	10:37:04	8/1/2022
vt-108 end	234078.42	4578090.26	41.310453	-72.1767	10:55:34	8/1/2022
vt-067 start	233450.43	4577504.92	41.304981	-72.1839	11:05:55	8/1/2022
vt-067 start	233635.44	4577721.83	41.306993	-72.1818	11:18:02	8/1/2022
vt-107 start	233839.25	4577298.44	41.303253	-72.1792	11:27:34	8/1/2022
vt-107 end	234120.66	4577312.44	41.303471	-72.1758	11:46:14	8/1/2022
vt-116 start	243683.96	4577594.91	41.309106	-72.0619	12:55:42	8/1/2022
vt-116 end	243604.08	4577825.69	41.311156	-72.0629	13:08:26	8/1/2022
vt-086 start	242991.27	4578249.94	41.314777	-72.0704	13:19:54	8/1/2022
vt-086 end	243219.63	4578385.2	41.316066	-72.0677	13:30:37	8/1/2022
vt-117 start	242857.94	4578213.3	41.314405	-72.072	13:36:02	8/1/2022
vt-117 end	242987.13	4578550.42	41.317479	-72.0706	13:53:10	8/1/2022
vt-118 start	242668.84	4578332.11	41.315413	-72.0743	14:04:05	8/1/2022
vt-118 end	242639.82	4578570.14	41.317545	-72.0747	14:19:32	8/1/2022
vt-085 start	243615.84	4577297.35	41.306407	-72.0625	14:49:09	8/1/2022
vt-085 start	243523.09	4577537.11	41.308534	-72.0638	15:04:12	8/1/2022
vt-114 start	240694.26	4577163.48	41.30427	-72.0973	7:57:55	8/2/2022
vt-114 end	240727.47	4577454.24	41.306896	-72.0971	8:11:29	8/2/2022
vt-113 start	240772.55	4577610.54	41.308316	-72.0966	8:15:46	8/2/2022
vt-113 end	240961.59	4577353.65	41.306066	-72.0942	8:30:53	8/2/2022
vt-112 start	241108.65	4577287.11	41.305515	-72.0924	8:34:59	8/2/2022
vt-112 end	240975.65	4577093.71	41.303733	-72.094	8:46:51	8/2/2022
vt-115 start	240976.27	4577489.36	41.307292	-72.0941	8:52:10	8/2/2022
vt-115 end	241205.68	4577611.79	41.308466	-72.0914	9:05:15	8/2/2022

Appendix D-1: Abundance of Macrofauna by Phylum: 522 Lease Area

Sample ID	Location Category	Area of Subsample (cm^2)	# Organisms by Phylum							Total Organisms
			Annelida	Arthropoda	Chordata	Cnidaria	Echinodermata	Mollusca	Nemertea	
522LA22-GB001-1	Lease Area	9.58	8	12	0	0	0	218	1	239
522LA22-GB004-1		76.64	69	48	0	0	1	12	2	132
522LA22-GB006-1		76.64	12	25	0	0	0	2	5	44
522LA22-GB007-1		76.64	6	12	0	0	0	4	1	23
522LA22-GB009-1		57.48	13	96	0	0	0	26	0	135
522LA22-GB010-1		76.64	6	3	0	0	1	6	0	16
522LA22-GB012-1		76.64	6	7	0	0	4	1	1	19
522LA22-GB016-1		76.64	18	299	0	0	0	23	5	345
522LA22-GB017-1		19.16	26	100	0	0	0	2	0	128
522LA22-GB018-1		76.64	53	96	0	0	0	27	1	177
522LA22-GB019-1		38.32	52	146	0	0	0	5	0	203
522LA22-GB020-1		28.74	28	109	0	0	0	14	1	152
522LA22-GB021-1		76.64	49	55	0	0	11	7	0	122
522LA22-GB022-1		76.64	21	127	0	0	1	28	0	177

*Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of all metrics.

Appendix D-2: Abundance of Macrofauna by Phylum: MA OECC

Sample ID	Location Category	Area of Subsample (cm^2)	# Organisms by Phylum							Total Organisms
			Annelida	Arthropoda	Chordata	Cnidaria	Echinodermata	Mollusca	Nemertea	
522MA22-GB001-1	MA OECC	76.64	18	5	0	0	0	0	1	24
522MA22-GB003-3		76.64	68	1	0	0	0	40	1	110
522MA22-GB007-1		38.32	44	0	0	0	0	1	0	45
522MA22-GB009-1		76.64	24	26	0	0	0	6	0	56
522MA22-GB011-1		76.64	20	6	0	0	0	4	0	30
522MA22-GB013-1		38.32	52	16	0	0	0	3	0	71
522MA22-GB015-1		38.32	1	7	0	0	0	111	0	119
522MA22-GB017-1		38.32	11	2	0	0	0	28	0	41
522MA22-GB019-4		61.31	17	7	0	0	0	153	1	178
522MA22-GB021-1		38.32	2	0	0	0	0	9	0	11
522MA22-GB023-1		38.32	36	1	0	0	0	2	0	39
522MA22-GB027-1		38.32	15	0	0	0	0	0	0	15
522MA22-GB029-4		15.33	46	0	0	0	0	0	1	47
522MA22-GB031-2		38.32	43	0	0	0	0	0	0	43
522MA22-GB033-1		38.32	54	1	0	0	0	0	1	56
522MA22-GB035-2		38.32	8	1	0	0	0	1	0	10
522MA22-GB037-1		38.32	15	0	0	0	0	1	0	16
522MA22-GB039-4		76.64	53	0	0	0	0	0	0	53
522MA22-GB041-1		38.32	44	0	0	0	0	1	1	46
522MA22-GB043-4		25.55	16	1	0	0	0	92	2	111
522MA22-GB045-4		76.64	6	0	0	0	2	0	0	8
522MA22-GB047-4		76.64	13	3	0	0	0	8	1	25
522MA22-GB049A-1		38.32	40	10	0	0	0	45	1	96
522MA22-GB051A-1		76.64	21	0	0	1	0	14	1	37
522MA22-GB052A-1		76.64	23	0	0	2	0	37	2	64
522MA22-GB055A-2		38.32	27	1	0	0	0	1	0	29
522MA22-GB057A-1		28.74	21	23	0	0	0	64	0	108

*Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of all metrics.

Appendix D-3: Abundance of Macrofauna by Phylum: CT OECC

Sample ID	Location Category	Area of Subsample (cm^2)	# Organisms by Phylum							Total Organisms
			Annelida	Arthropoda	Chordata	Cnidaria	Echinodermata	Mollusca	Nemertea	
522CT22-GB002-1	CT OECC	12.77	2	39	0	0	4	1	0	46
522CT22-GB004-1		76.64	3	63	0	0	4	1	1	72
522CT22-GB006-1		76.64	4	14	0	1	11	0	0	30
522CT22-GB008-1		25.55	2	14	0	0	6	0	1	23
522CT22-GB010-1		76.64	19	3	0	0	8	0	0	30
522CT22-GB012-1		76.64	5	101	0	0	10	1	2	119
522CT22-GB014-1		38.32	4	61	0	2	8	0	3	78
522CT22-GB016-1		38.32	16	22	0	0	3	2	0	43
522CT22-GB018-1		38.32	11	3	0	0	0	0	1	15
522CT22-GB020-1		51.09	27	88	1	0	0	4	0	120
522CT22-GB022-1		51.09	32	96	0	0	0	12	1	141
522CT22-GB024-1		25.55	7	3	0	0	0	2	0	12
522CT22-GB026-3		38.32	8	1	0	0	0	0	0	9
522CT22-GB028-1		38.32	30	1	0	0	0	0	0	31
522CT22-GB030-1		38.32	8	2	0	0	0	0	0	10
522CT22-GB032-1		38.32	16	0	0	0	0	12	1	29
522CT22-GB034-1		76.64	1	0	0	0	0	1	0	2
522CT22-GB036-1		76.64	5	0	0	0	0	2	0	7
522CT22-GB038-1		76.64	5	4	0	0	1	0	0	10
522CT22-GB040-1		76.64	5	7	0	0	0	5	0	17
522CT22-GB042-1		76.64	2	12	0	0	1	0	0	15
522CT22-GB044-2		31.93	3	2	0	0	0	1	1	7
522CT22-GB046-1		76.64	3	0	0	0	1	0	0	4
522CT22-GB048-1		76.64	0	0	0	0	0	1	0	1
522CT22-GB050-1		76.64	1	1	0	0	0	0	0	2
522CT22-GB052-2		38.32	62	2	0	0	0	19	0	83
522CT22-GB054-1		76.64	4	2	0	0	0	1	0	7
522CT22-GB056-1		76.64	8	1	0	0	0	6	1	16
522CT22-GB058-1		76.64	9	5	0	0	0	29	1	44
522CT22-GB060-1		76.64	53	5	0	0	0	80	0	138
522CT22-GB062-1		34.06	3	6	0	0	0	7	1	17
522CT22-GB064-1		76.64	9	2	0	0	0	3	0	14
522CT22-GB066-1		76.64	13	1	0	0	0	0	0	14
522CT22-GB067-1		76.64	12	1	0	0	0	0	0	13
522CT22-GB068-1		38.32	28	6	0	0	0	9	0	43
522CT22-GB072-2		38.32	5	3	0	0	0	2	0	10
522CT22-GB072-3A-1		51.09	34	13	0	0	0	2	0	49
522CT22-GB074-2		51.09	21	8	0	1	0	2	0	32
522CT22-GB074-3A-1		76.64	1	19	0	0	0	4	0	24
522CT22-GB076-2		51.09	9	2	0	0	0	2	0	13
522CT22-GB078-1		76.64	5	4	0	0	0	1	0	10
522CT22-GB080-2		76.64	12	9	0	0	0	2	0	23
522CT22-GB080-3A-1		76.64	8	20	0	0	0	3	0	31
522CT22-GB082-2		76.64	14	5	0	0	0	2	0	21
522CT22-GB082-3B-1		76.64	6	13	0	0	0	2	0	21
522CT22-GB084-1		76.64	10	2	0	0	0	30	0	42
522CT22-GB090A-1		45.98	35	3	0	0	0	0	0	38
522CT22-GB091A-1		76.64	24	3	0	0	0	0	0	27
522CT22-GB092A-1		7.18	58	0	0	0	1	0	0	59
522CT22-GB095A-1		76.64	15	18	1	0	0	0	1	35
522CT22-GB096A-2		38.32	16	1	0	0	0	1	2	20
522CT22-GB098-3B-1		19.16	36	6	0	0	0	20	0	62
522CT22-GB100-1		76.64	4	2	0	0	0	6	0	12
522CT22-GB101-1		76.64	17	5	0	0	0	17	0	39
522CT22-GB102-1		32.85	34	0	0	0	0	0	0	34
522CT22-GB103-1		30.66	17	2	0	0	0	0	0	19
522CT22-GB104-1		3.83	5	1	0	0	0	1	0	7
522CT22-GB105-1		76.64	11	41	0	0	0	3	1	56
522CT22-GB106-1		76.64	17	3	0	0	0	3	2	25
522CT22-GB107-1		76.64	9	4	0	0	0	2	0	15
522CT22-GB108-1		76.64	8	1	0	0	0	0	0	9
522CT22-GB109-1		76.64	14	7	0	0	0	15	0	36
522CT22-GB110-1		14.37	13	3	0	0	0	0	0	16
522CT22-GB111A-1		38.32	35	4	0	0	0	2	0	41
522CT22-GB112-1		31.93	20	3	0	0	0	4	0	27

*Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of all metrics.

Appendix E: Benthic Lab Analysis

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB002-1	CT OECC	4/21/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	12.77
522CT22-GB002-1	CT OECC	4/21/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	31	12.77
522CT22-GB002-1	CT OECC	4/21/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	3	12.77
522CT22-GB002-1	CT OECC	4/21/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	12.77
522CT22-GB002-1	CT OECC	4/21/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	4	12.77
522CT22-GB002-1	CT OECC	4/21/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	*Macoma sp.*	1	12.77
522CT22-GB002-1	CT OECC	4/21/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	5	12.77
522CT22-GB004-1	CT OECC	4/22/2022	Nemertea	Nemertea				Nemertea	1	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	62	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	4	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Mollusca	Mollusca	Bivalvia	Pectinida	Pectinidae	Pectinidae	1	76.64
522CT22-GB004-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	1	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Cnidaria	Cnidaria	Anthozoa	Spirularia	Cerianthidae	Cerianthidae	1	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	11	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	8	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	5	76.64
522CT22-GB006-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	2	76.64
522CT22-GB008-1	CT OECC	4/22/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	4	25.55
522CT22-GB008-1	CT OECC	4/22/2022	Nemertea	Nemertea				Nemertea	1	25.55
522CT22-GB008-1	CT OECC	4/22/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	2	25.55
522CT22-GB008-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	10	25.55
522CT22-GB008-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	3	25.55
522CT22-GB008-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	1	25.55
522CT22-GB008-1	CT OECC	4/22/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	2	25.55
522CT22-GB010-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Syllis sp.*	2	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta		Cossuridae	*Cossura longocirrata*	2	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	14	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	2	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	76.64
522CT22-GB010-1	CT OECC	4/22/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	8	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Syllis sp.*	1	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Nemertea	Nemertea				Nemertea	2	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	101	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	10	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	1	76.64
522CT22-GB012-1	CT OECC	4/22/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	1	76.64
522CT22-GB014-1	CT OECC	4/23/2022	Nemertea	Nemertea				Nemertea	3	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	1	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes wigleyi*	2	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	1	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	58	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	8	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	38.32

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB014-1	CT OECC	4/23/2022	Cnidaria	Cnidaria	Anthozoa	Actiniaria		Actiniaria	2	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	38.32
522CT22-GB014-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	2	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Cossuridae	*Cossura longocirrata*	9	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	Spionidae	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Mollusca	Mollusca	Caudofoveata	Chaetodermatida	Chaetodermatidae	*Chaetoderma sp.*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	16	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	16	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	3	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	2	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Harpinia sp.*	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	38.32
522CT22-GB016-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Idoteidae	*Edotia montosa*	2	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Cossuridae	*Cossura longocirrata*	1	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	2	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	5	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Nemertea	Nemertea				Nemertea	1	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	2	38.32
522CT22-GB018-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	38.32
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	2	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Opheliidae	*Ophelia sp.*	2	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	*Terebellides stroemii*	2	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	7	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	4	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Ascidiacea	Chordata	Ascidiacea	Stolidobranchia	Molgulidae	Molgulidae	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	77	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia		Lyonsiidae	*Lyonsia sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	2	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	2	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia	Nuculanida	Yoldiidae	*Yoldia sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Harpinia sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	5	51.09

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB020-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Nannastacidae	*Campylaspis sp.*	1	51.09
522CT22-GB020-1	CT OECC	4/23/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Nemertea	Nemertea				Nemertea	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	4	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	*Terebellides stroemii*	5	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Sabellida	Sabellidae	Sabellidae	3	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Brada sp.*	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	8	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	79	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia	Mytilida	Mytilidae	*Crenella sp.*	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Harpinia sp.*	3	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	4	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Idoteidae	*Edotia montosa*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	3	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Leptostylis sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	5	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	6	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Cardiidae	*Parvicardium pinnulatum*	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Melitidae	*Melita sp.*	2	51.09
522CT22-GB022-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Anthuridae	*Ptilanthura tenuis*	1	51.09
522CT22-GB024-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	6	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Caprellidae	Caprellidae	1	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia	Carditida	Astartidae	*Astarte castanea*	1	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Cardiidae	*Parvicardium pinnulatum*	1	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	25.55
522CT22-GB024-1	CT OECC	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	4	25.55
522CT22-GB026-3	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	38.32
522CT22-GB026-3	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	2	38.32
522CT22-GB026-3	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	1	38.32
522CT22-GB026-3	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	38.32
522CT22-GB026-3	CT OECC	4/24/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	38.32
522CT22-GB026-3	CT OECC	4/24/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	12	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	2	38.32

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB028-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	12	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	Pisioninae	1	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Dorvilleidae	Dorvilleidae	1	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	38.32
522CT22-GB028-1	CT OECC	4/24/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	1	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	2	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	2	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	38.32
522CT22-GB030-1	CT OECC	4/24/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	2	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	2	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	2	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Dorvilleidae	Dorvilleidae	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	4	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Nemertea	Nemertea				Nemertea	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta		Opheliidae	Opheliidae	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	3	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Mollusca	Mollusca	Bivalvia	Mytilida	Mytilidae	*Mytilus edulis*	10	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	1	38.32
522CT22-GB032-1	CT OECC	4/24/2022	Mollusca	Mollusca	Bivalvia	Carditida	Astartidae	*Astarte castanea*	1	38.32
522CT22-GB034-1	CT OECC	5/3/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB034-1	CT OECC	5/3/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB036-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB036-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	76.64
522CT22-GB036-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	76.64
522CT22-GB036-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Scoloplos sp.*	1	76.64
522CT22-GB036-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522CT22-GB036-1	CT OECC	4/29/2022	Mollusca	Mollusca	Bivalvia	Carditida	Astartidae	*Astarte castanea*	2	76.64
522CT22-GB038-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	76.64
522CT22-GB038-1	CT OECC	4/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	76.64
522CT22-GB038-1	CT OECC	4/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	76.64
522CT22-GB038-1	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	76.64
522CT22-GB038-1	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	*Protohaustorius sp.*	3	76.64
522CT22-GB038-1	CT OECC	4/29/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	1	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	3	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	Spionidae	1	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	2	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	2	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Sabellariidae	*Sabellaria vulgaris*	1	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	3	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB040-1	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	Parahaustorius sp.	2	76.64
522CT22-GB040-1	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Ancinidae	*Ancinus sp.*	1	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Scolelepis sp.*	1	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Crustacea	Arthropoda	Malacostraca	Tanaidacea		Tanaidacea	4	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	2	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	Parahaustorius sp.	4	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	2	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	76.64
522CT22-GB042-1	CT OECC	4/27/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	1	76.64
522CT22-GB044-2	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	31.93
522CT22-GB044-2	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	31.93
522CT22-GB044-2	CT OECC	4/24/2022	Nemertea	Nemertea				Nemertea	1	31.93
522CT22-GB044-2	CT OECC	4/24/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	31.93
522CT22-GB044-2	CT OECC	4/24/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	1	31.93
522CT22-GB044-2	CT OECC	4/24/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Cirolanidae	*Politolana sp.*	2	31.93
522CT22-GB046-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	76.64
522CT22-GB046-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	1	76.64
522CT22-GB046-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	76.64
522CT22-GB046-1	CT OECC	4/30/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	1	76.64
522CT22-GB048-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	1	76.64
522CT22-GB050-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	76.64
522CT22-GB050-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	76.64
522CT22-GB050-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	76.64
522CT22-GB052-2	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	5	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia	Arcida	Arcidae	*Anadara transversa*	1	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia		Pandoridae	*Pandora sp.*	2	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	2	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	57	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	5	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	5	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	Columbellidae	1	38.32
522CT22-GB052-2	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Xanthidae	Xanthidae	1	38.32
522CT22-GB054-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB054-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	2	76.64
522CT22-GB054-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	1	76.64
522CT22-GB054-1	CT OECC	5/2/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	1	76.64
522CT22-GB054-1	CT OECC	5/2/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Callianassidae	*Gilvossius setimanus*	1	76.64
522CT22-GB054-1	CT OECC	5/2/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Xanthidae	Xanthidae	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Tanaidacea		Tanaidacea	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Magelonidae	*Magelona rosea*	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Nemertea	Nemertea				Nemertea	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Sabellariidae	*Sabellaria vulgaris*	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	2	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	2	76.64
522CT22-GB056-1	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	4	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Nemertea	Nemertea				Nemertea	1	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	2	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	2	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	2	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	2	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	Columbellidae	1	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	28	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	1	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	3	76.64
522CT22-GB058-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Callianassidae	*Gilvossius setimanus*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia	Arcida	Arcidae	*Anadara transversa*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Mollusca	Mollusca	Bivalvia		Pandoridae	*Pandora sp.*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	18	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	3	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	5	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	5	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	7	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	2	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	12	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	10	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	2	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	Spionidae	2	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	60	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Cirolanidae	*Politolana sp.*	1	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	2	76.64
522CT22-GB060-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Liljeborgiidae	*Idunella sp.*	1	76.64
522CT22-GB062-1	CT OECC	4/30/2022	Nemertea	Nemertea				Nemertea	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Tanaidacea		Tanaidacea	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Sabellariidae	*Sabellaria vulgaris*	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia		Lyonsiidae	*Lyonsia sp.*	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	6	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	3	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	34.06
522CT22-GB062-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	34.06

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB064-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Callianassidae	*Gilvossius setimanus*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Myida	Corbulidae	*Caryocorbula contracta*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Mytilida	Mytilidae	*Mytilus edulis*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB064-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Liljeborgiidae	*Idunella sp.*	1	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Syllis sp.*	1	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae	1	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	4	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	4	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	76.64
522CT22-GB066-1	CT OECC	5/2/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Upogebiidae	*Upogebia affinis*	1	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Sabaco elongatus*	2	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	3	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522CT22-GB067-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Aoridae	*Microdeutopus sp.*	1	76.64
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae	3	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	4	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	2	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	7	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	5	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	3	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	7	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Xanthidae	Xanthidae	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Bateidae	*Batea sp.*	2	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	38.32
522CT22-GB068-1	CT OECC	7/29/2022	Mollusca	Mollusca	Bivalvia	Solemyida	Solemyidae	*Petrasma borealis*	1	38.32
522CT22-GB072-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	3	38.32
522CT22-GB072-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	2	38.32
522CT22-GB072-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	38.32
522CT22-GB072-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	38.32
522CT22-GB072-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	1	38.32

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB072-2	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Carditida	Astartidae	*Astarte undata*	1	38.32
522CT22-GB072-2	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	1	38.32
522CT22-GB072-3A-1	CT OECC	10/1/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	19	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	4	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	8	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	2	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	1	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	Ampelisca sp.	11	51.09
522CT22-GB072-3A-1	CT OECC	10/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Cnidaria	Cnidaria	Anthozoa	Actiniaria		Actiniaria	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	2	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	4	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	6	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	2	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Pinnotheridae	Pinnixinae	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	2	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	1	51.09
522CT22-GB074-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	51.09
522CT22-GB074-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	*Phyllodoce arenae*	1	76.64
522CT22-GB074-3A-1	CT OECC	9/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB074-3A-1	CT OECC	9/30/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	2	76.64
522CT22-GB074-3A-1	CT OECC	9/30/2022	Mollusca	Mollusca	Bivalvia		Lyonsiidae	Lyonsia sp.	1	76.64
522CT22-GB074-3A-1	CT OECC	9/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	19	76.64
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	2	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	2	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Sabaco elongatus*	1	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	2	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	2	51.09
522CT22-GB076-2	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	51.09
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Sabaco elongatus*	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Scoloplos sp.*	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	2	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Pinnotheridae	Pinnixinae	1	76.64
522CT22-GB078-1	CT OECC	5/1/2022	Mollusca	Mollusca	Gastropoda	Cephalaspidea		Cephalaspidea	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	Orbiniidae	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	2	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	2	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	3	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	*Astyris lunata*	1	76.64
522CT22-GB080-2	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	9	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	2	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	*Phyllodoce arenae*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Orbiniidae	Scoloplos	*Scoloplos sp.*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	2	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB080-3A-1	CT OECC	9/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	20	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	2	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	5	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	2	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	3	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	1	76.64
522CT22-GB082-2	CT OECC	4/29/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	1	76.64
522CT22-GB082-3B-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	1	76.64
522CT22-GB082-3B-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522CT22-GB082-3B-1	CT OECC	9/30/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	4	76.64
522CT22-GB082-3B-1	CT OECC	9/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB082-3B-1	CT OECC	9/30/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	13	76.64
522CT22-GB082-3B-1	CT OECC	9/30/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Skeneopsidae	*Skeneopsis planorbis*	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	Phyllodocidae	2	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	Capitellidae	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	7	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Xanthidae	Xanthidae	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia	Mytilida	Mytilidae	*Mytilus edulis*	4	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda		Pyramidellidae	Pyramidellidae	8	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	76.64
522CT22-GB084-1	CT OECC	4/30/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	10	76.64
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	5	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	6	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	2	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	8	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	2	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	8	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	1	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Cirolanidae	*Politolana sp.*	1	45.98
522CT22-GB090A-1	CT OECC	6/4/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	2	45.98
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	7	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	3	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta		Travisiidae	*Travisia carnea*	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	2	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	2	76.64
522CT22-GB091A-1	CT OECC	6/4/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	76.64
522CT22-GB092A-1	CT OECC	6/3/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	1	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	53	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	7.18
522CT22-GB092A-1	CT OECC	6/3/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	3	7.18
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	3	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta		Magelonidae	*Magelona rosea*	1	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	5	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Nemertea	Nemertea				Nemertea	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	1	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	2	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Ascidiacea	Chordata	Ascidiacea	Phlebobranchia	Perophoridae	Perophora viridis	1	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	*Protohaustorius sp.*	15	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	Acanthohaustorius sp.	2	76.64
522CT22-GB095A-1	CT OECC	6/18/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Bathyporeiidae	*Bathyporeia sp.*	1	76.64
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Nemertea	Nemertea				Nemertea	2	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	3	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	3	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	6	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	1	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	*Protohaustorius sp.*	1	38.32
522CT22-GB096A-2	CT OECC	6/14/2022	Mollusca	Mollusca	Bivalvia	Carditida	Astartidae	*Astarte castanea*	1	38.32
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	23	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Crustacea	Arthropoda	Malacostraca	Tanaidacea		Tanaidacea	2	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Dorvilleidae	Dorvilleidae	3	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	Pisioninae	2	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	Phyllodocidae Type A	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	3	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Hesionidae	Hesionidae	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Mollusca	Mollusca	Bivalvia	Carditida	Crassatellidae	*Crassinella lunulata*	19	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	2	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	*Astyris lunata*	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	19.16
522CT22-GB098-3B-1	CT OECC	10/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Lysianassidae	Lysianassidae	1	19.16
522CT22-GB100-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	Capitellidae	4	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Pectinariidae	*Pectinaria gouldii*	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	2	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	Columbellidae	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Mollusca	Mollusca	Bivalvia	Solemyida	Solemyidae	*Petrasma borealis*	2	76.64
522CT22-GB100-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Oxyurostylis sp.*	1	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	Ampelisca sp.	1	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	1	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Clymenella torquata	6	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	2	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Sabaco elongatus*	1	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	2	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	4	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	4	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	3	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Mollusca	Mollusca	Gastropoda		Pyramidellidae	*Turbonilla sp.*	8	76.64
522CT22-GB101-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	76.64
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	Polygordius sp.	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	5	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Chaetopteridae	*Spiochaetopterus sp.*	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	3	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	8	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Sabaco elongatus*	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	6	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	Mediomastus sp.	2	32.85
522CT22-GB102-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	32.85
522CT22-GB103-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	11	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	Capitellidae	2	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	2	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae	1	30.66
522CT22-GB103-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampithoidae	Ampithoidae	2	30.66
522CT22-GB104-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	3.83
522CT22-GB104-1	CT OECC	7/29/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	2	3.83
522CT22-GB104-1	CT OECC	7/29/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	3.83
522CT22-GB104-1	CT OECC	7/29/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	3.83
522CT22-GB104-1	CT OECC	7/29/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	3.83
522CT22-GB105-1	CT OECC	7/28/2022	Nemertea	Nemertea				Nemertea	1	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	1	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	4	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	1	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	2	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	2	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	33	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB105-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Caprellidae	Caprellidae	2	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Mollusca	Mollusca	Gastropoda		Pyramidellidae	Pyramidellidae	2	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	5	76.64
522CT22-GB105-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Crangonidae	*Crangon septemspinosa*	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Nemertea	Nemertea				Nemertea	2	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	6	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	3	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Pectinariidae	*Pectinaria gouldii*	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Caprellidae	Caprellidae	2	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	*Astyris lunata*	1	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Mollusca	Mollusca	Bivalvia		Lyonsiidae	*Lyonsia sp.*	2	76.64
522CT22-GB106-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Aoridae	Aoridae	1	76.64
522CT22-GB107-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	2	76.64
522CT22-GB107-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	7	76.64
522CT22-GB107-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	4	76.64
522CT22-GB107-1	CT OECC	7/28/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	76.64
522CT22-GB107-1	CT OECC	7/28/2022	Mollusca	Mollusca	Gastropoda		Pyramidellidae	Pyramidellidae	1	76.64
522CT22-GB108-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	4	76.64
522CT22-GB108-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	76.64
522CT22-GB108-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	1	76.64
522CT22-GB108-1	CT OECC	7/28/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522CT22-GB108-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Lysianassidae	Lysianassidae	1	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	6	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	2	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	2	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	13	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Mollusca	Mollusca	Bivalvia	Mytilida	Mytilidae	*Mytilus edulis*	2	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	5	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	76.64
522CT22-GB109-1	CT OECC	8/9/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Xanthidae	Xanthidae	1	76.64
522CT22-GB110-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	2	14.37
522CT22-GB110-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	Polygordius sp.	2	14.37
522CT22-GB110-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	14.37
522CT22-GB110-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	2	14.37
522CT22-GB110-1	CT OECC	7/28/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	14.37
522CT22-GB110-1	CT OECC	7/28/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	14.37
522CT22-GB110-1	CT OECC	7/28/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Aoridae	*Microdeutopus sp.*	3	14.37
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Streblospio benedicti*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	8	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	3	38.32

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta		Scalibregmatidae	*Scalibregma inflatum*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	2	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	7	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Dorvilleidae	Dorvilleidae	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	3	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Crustacea	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus sp.*	3	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Aoridae	*Grandidierella japonica*	1	38.32
522CT22-GB111A-1	CT OECC	7/25/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	Columbellidae	1	38.32
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	*Eteone sp.*	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	7	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spio sp.*	2	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	3	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Polydora sp.*	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sthenelais boa*	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	Columbellidae	2	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spio sp.*	1	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Dexaminidae	Dexaminidae	3	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	*Lacuna sp.*	2	31.93
522CT22-GB112-1	CT OECC	7/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	31.93
522LA22-GB001-1	Lease Area	4/18/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	Orbiniidae	1	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	2	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	8	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	2	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Nemertea	Nemertea				Nemertea	1	9.58
522LA22-GB001-1	Lease Area	4/18/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	218	9.58
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	2	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	4	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	4	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sthenelais limicola*	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Nemertea	Nemertea				Nemertea	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	28	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	10	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	20	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	Spionidae	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Nemertea	Nemertea				Nemertea	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	9	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	13	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	22	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Mollusca	Mollusca	Bivalvia	Nuculanida	Yoldiidae	*Yoldia sp.*	3	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	9	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Corophium sp.*	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	1	76.64
522LA22-GB004-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Nemertea	Nemertea				Nemertea	5	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	6	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	2	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	3	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	3	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	6	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	2	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	1	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	8	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	3	76.64
522LA22-GB006-1	Lease Area	4/26/2022	Mollusca	Mollusca	Bivalvia	Adapedonta	Solenidae	Solenidae	1	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Nemertea	Nemertea				Nemertea	1	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	3	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	4	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	4	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	2	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	4	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	76.64
522LA22-GB007-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	76.64
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Clymenella torquata	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	4	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	3	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	3	57.48

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Anthuridae	*Ptilanthura tenuis*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Brada sp.*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	2	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	53	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	23	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	10	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	4	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	19	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	4	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	2	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Tryphosidae	*Orchomenella sp.*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Cardiidae	*Parvicardium pinnulatum*	1	57.48
522LA22-GB009-1	Lease Area	4/23/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Naticidae	Naticidae	1	57.48
522LA22-GB010-1	Lease Area	4/27/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	1	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	3	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sthenelais limicola*	1	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	6	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	76.64
522LA22-GB010-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Chaetiliidae	*Chiridotea sp.*	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Nemertea	Nemertea				Nemertea	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	2	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	2	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	4	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Tanaidacea		Tanaidacea	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Caprellidae	Caprellidae	1	76.64
522LA22-GB012-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	*Pseudohaustorius sp.*	1	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	3	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Nemertea	Nemertea				Nemertea	2	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	8	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	3	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sigalion arenicola*	1	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella sp.*	2	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	156	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Nemertea	Nemertea				Nemertea	3	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522LA22-GB016-1	Lease Area	4/25/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	4	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	4	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	3	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Mollusca	Mollusca	Bivalvia	Nuculanida	Yoldiidae	*Yoldia sp.*	1	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	18	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Corophium sp.*	2	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	3	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	124	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	2	76.64
522LA22-GB016-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	6	76.64
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	3	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	Ninoe nigripes	3	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	10	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sthenelais limicola*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	19	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Corophium sp.*	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	2	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	70	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	19.16
522LA22-GB017-1	Lease Area	4/27/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Cheirocratidae	*Casco bigelowi*	1	19.16
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Nemertea	Nemertea				Nemertea	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	3	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	35	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	8	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	39	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Cardiidae	*Parvicardium pinnulatum*	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522LA22-GB018-1	Lease Area	4/25/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	21	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Corophium sp.*	2	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	3	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	47	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	2	76.64
522LA22-GB018-1	Lease Area	4/25/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Lucinidae	*Lucinoma sp.*	3	76.64
522LA22-GB019-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	1	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	36	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	7	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	4	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	3	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	47	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	3	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Lucinidae	*Lucinoma sp.*	1	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	4	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	71	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	5	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Corophium sp.*	7	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Caprellidae	Caprellidae	1	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	6	38.32
522LA22-GB019-1	Lease Area	4/26/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	5	38.32
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	2	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Nemertea	Nemertea				Nemertea	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	4	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	*Terebellides stroemii*	4	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	12	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Cossuridae	*Cossura longocirrata*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	2	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	99	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	3	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	2	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Lucinidae	*Lucinoma sp.*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	8	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Anthuridae	*Ptilanthura tenuis*	1	28.74
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	5	28.74

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522LA22-GB020-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	4	28.74
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	3	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	9	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	1	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Cossuridae	*Cossura longocirrata*	3	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	*Terebellides stroemii*	16	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	3	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	8	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	1	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	Flabelligeridae	1	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	37	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	2	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	2	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	3	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	16	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	11	76.64
522LA22-GB021-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	2	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	5	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	*Terebellides stroemii*	3	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta		Cossuridae	*Cossura longocirrata*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	*Phyllodoce arenae*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Brada sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	97	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Echinodermata	Echinodermata	Ophiuroidea	Amphilepidida	Amphiuridae	*Amphioplus abditus*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	23	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	4	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Lucinidae	*Lucinoma sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ischyroceridae	*Erichthonius sp.*	21	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	2	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Leptostylis sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	2	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Photidae	*Photis sp.*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Cheirocratidae	*Casco bigelowi*	1	76.64
522LA22-GB022-1	Lease Area	4/23/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Lysianassidae	Lysianassidae	1	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Amastigos caperatus*	4	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	3	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Magelonidae	*Magelona rosea*	3	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Nemertea	Nemertea				Nemertea	1	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Orbinia sp.*	2	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	2	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Travisiidae	*Travisia carnea*	1	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	*Protohaustorius sp.*	4	76.64
522MA22-GB001-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	Amastigos caperatus	51	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	1	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	2	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Magelonidae	*Magelona rosea*	2	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Nemertea	Nemertea				Nemertea	1	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	4	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	39	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Onuphidae	*Onuphis sp.*	1	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	3	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	1	76.64
522MA22-GB003-3	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	76.64
522MA22-GB007-1	MA OECC	4/17/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Dorvilleidae	Dorvilleidae	2	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	11	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	22	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	4	38.32
522MA22-GB007-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	2	38.32
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	Amastigos caperatus	2	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	2	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	4	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	*Phyllodoce arenae*	1	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Prionospio sp.*	11	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Scoloplos sp.*	1	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spiophanes bombyx*	2	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	25	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Mollusca	Mollusca	Gastropoda	Cephalaspidea		Cephalaspidea	1	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Mollusca	Mollusca	Bivalvia	Adapedonta	Solenidae	Solenidae	1	76.64
522MA22-GB009-1	MA OECC	4/17/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	4	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Amastigos caperatus*	16	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Scoloplos sp.*	1	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Travisiidae	*Travisia carnea*	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522MA22-GB011-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	5	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	3	76.64
522MA22-GB011-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	76.64
522MA22-GB013-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	15	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	36	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	11	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	3	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Oedicerotidae	*Synchelidium sp.*	1	38.32
522MA22-GB013-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	3	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	Maldanidae	1	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Carditida	Astartidae	*Astarte castanea*	2	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	5	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Idoteidae	*Edotia montosa*	1	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	108	38.32
522MA22-GB015-1	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Mollusca	Mollusca	Bivalvia		Periplomatidae	*Periploma papyratium*	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	25	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta			Polychaeta	1	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	38.32
522MA22-GB017-1	MA OECC	4/11/2022	Mollusca	Mollusca	Bivalvia	Lucinida	Thyasiridae	*Thyasira sp.*	1	38.32
522MA22-GB019-4	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	15	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	6	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Leuconidae	*Eudorella sp.*	7	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	2	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	*Macoma sp.*	2	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Nemertea	Nemertea				Nemertea	1	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	1	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	144	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	2	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Scoloplos sp.*	2	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	1	61.31
522MA22-GB019-4	MA OECC	4/15/2022	Mollusca	Mollusca	Bivalvia	Nuculanida	Yoldiidae	*Yoldia sp.*	6	61.31

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522MA22-GB021-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	38.32
522MA22-GB021-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522MA22-GB021-1	MA OECC	4/11/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	8	38.32
522MA22-GB021-1	MA OECC	4/11/2022	Mollusca	Mollusca	Bivalvia	Nuculanida	Yoldiidae	*Yoldia sp.*	1	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Chaetiliidae	*Chiridotea sp.*	1	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Mollusca	Mollusca	Gastropoda	Littorinimorpha	Calyptraeidae	*Crepidula fornicata*	1	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	5	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	Pisioninae	10	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	12	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	7	38.32
522MA22-GB023-1	MA OECC	4/11/2022	Polychaeta	Annelida	Polychaeta		Travisiidae	*Travisia carnea*	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Dorvilleidae	Dorvilleidae	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	5	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Phyllodocidae	Phyllodocidae	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	Pisioninae	1	38.32
522MA22-GB027-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	2	38.32
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	13	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	3	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	3	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	4	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	12	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	6	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Nemertea	Nemertea				Nemertea	1	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	4	15.33
522MA22-GB029-4	MA OECC	4/13/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	1	15.33
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	3	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	3	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Eunicidae	*Paucibranchia bellii*	1	38.32
522MA22-GB031-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	30	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	2	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	13	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	4	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	2	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Nemertea	Nemertea				Nemertea	1	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Opheliidae	*Ophelia sp.*	1	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Orbinia sp.*	1	38.32

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	27	38.32
522MA22-GB033-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	3	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Byblis serrata*	1	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Enchytraeida	Enchytraeidae	Enchytraeidae	1	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	1	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	1	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	4	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	1	38.32
522MA22-GB035-2	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	38.32
522MA22-GB037-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	6	38.32
522MA22-GB037-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	38.32
522MA22-GB037-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522MA22-GB037-1	MA OECC	4/12/2022	Mollusca	Mollusca	Bivalvia	Venerida	Mactridae	*Spisula solidissima*	1	38.32
522MA22-GB037-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	7	38.32
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	12	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	*Exogone sp.*	4	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Travisiidae	*Travisia carnea*	1	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	27	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	4	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522MA22-GB039-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	76.64
522MA22-GB041-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	30	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	6	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	4	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Nemertea	Nemertea				Nemertea	1	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	1	38.32
522MA22-GB041-1	MA OECC	4/12/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	38.32
522MA22-GB043-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	2	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Nemertea	Nemertea				Nemertea	2	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	8	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Amastigos caperatus*	2	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	2	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	87	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	5	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	25.55
522MA22-GB043-4	MA OECC	4/13/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	2	25.55
522MA22-GB045-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Glyceridae	*Glycera sp.*	1	76.64
522MA22-GB045-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	1	76.64
522MA22-GB045-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522MA22-GB045-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	2	76.64
522MA22-GB045-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sthenelais limicola*	1	76.64
522MA22-GB045-4	MA OECC	4/12/2022	Echinodermata	Echinodermata	Echinoidea	Echinolampadacea	Echinarachniidae	*Echinarachnius parma*	2	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522MA22-GB047-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	4	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Goniadidae	*Goniadella gracilis*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Nemertea	Nemertea				Nemertea	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Sigalionidae	*Sthenelais limicola*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Sipuncula	Annelida		Sipuncula		Sipuncula	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Polychaeta	Annelida	Polychaeta		Orbiniidae	*Leitoscoloplos sp.*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	5	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	2	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Rhepoxynius epistomus*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Crustacea	Arthropoda	Malacostraca	Isopoda	Idoteidae	*Edotia montosa*	1	76.64
522MA22-GB047-4	MA OECC	4/12/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Haustoriidae	*Pseudohaustorius sp.*	1	76.64
522MA22-GB049A-1	MA OECC	6/7/2022	Nemertea	Nemertea				Nemertea	1	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	4	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	23	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	9	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	1	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	45	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	2	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	2	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	38.32
522MA22-GB049A-1	MA OECC	6/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	5	38.32
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	2	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella torquata*	2	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Nemertea	Nemertea				Nemertea	1	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	1	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	8	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	3	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	Spionidae	1	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Lumbrinerides acuta*	2	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Spionida	Spionidae	*Spio sp.*	1	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Cnidaria	Cnidaria	Anthozoa	Actiniaria		Actiniaria	1	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	2	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Mollusca	Mollusca	Bivalvia	Cardiida	Tellinidae	Tellininae	2	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Mollusca	Mollusca	Bivalvia			Bivalvia	3	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	12	76.64
522MA22-GB051A-1	MA OECC	6/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Mollusca	Mollusca	Bivalvia	Nuculanida	Yoldiidae	*Yoldia sp.*	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Nemertea	Nemertea				Nemertea	2	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	6	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	7	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	2	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Brada sp.*	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Cnidaria	Cnidaria	Anthozoa	Actiniaria		Actiniaria	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	3	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	1	76.64

Sample ID	Location Category	Collection Date	Taxa Group	Phylum	Class	Order	Family	LPTL	# Individuals in Subsample	Area of Subsample (cm^2)
522MA22-GB052A-1	MA OECC	6/7/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	2	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Flabelligeridae	*Pherusa sp.*	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Cnidaria	Cnidaria	Anthozoa	Actiniaria		Actiniaria	1	76.64
522MA22-GB052A-1	MA OECC	6/7/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	36	76.64
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta		Maldanidae	*Clymenella zonalis*	1	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	2	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae	1	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/out hair chaetae	3	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Oligochaeta	Annelida	Clitellata	Tubificida	Naididae	Naididae w/ hair chaetae	1	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Amastigos caperatus*	13	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Polychaeta	Annelida	Polychaeta		Capitellidae	*Mediomastus sp.*	4	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	1	38.32
522MA22-GB055A-2	MA OECC	6/6/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	38.32
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Nephtyidae	*Nephtys sp.*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Cirratulidae	Cirratulidae	7	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Syllidae	Syllidae	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	*Aricidea sp.*	2	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta		Paraonidae	Paraonidae	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta		Polygordiidae	*Polygordius sp.*	2	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Ninoe nigripes*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Lumbrineridae	*Scoletoma sp.*	2	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Eunicida	Oenonidae	*Drilonereis sp.*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Ilyanassa trivittata*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Mollusca	Mollusca	Gastropoda	Neogastropoda	Columbellidae	*Astyris lunata*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Crustacea	Arthropoda	Malacostraca	Cumacea	Diastylidae	*Diastylis sp.*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Mollusca	Mollusca	Gastropoda	Nuculida	Nuculidae	*Nucula proxima*	62	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Phoxocephalidae	*Phoxocephalus sp.*	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Polychaeta	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Ampeliscidae	*Ampelisca sp.*	16	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Unciolidae	*Unciola sp.*	4	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda		Amphipoda	1	28.74
522MA22-GB057A-1	MA OECC	6/11/2022	Crustacea	Arthropoda	Malacostraca	Amphipoda	Corophiidae	*Leptocheirus sp.*	1	28.74

Appendix F-1: Underwater Video Relative Abundance of Fauna: 522 Lease Area

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																		
			522LA22-VT001	522LA22-VT002	522LA22-VT003	522LA22-VT004	522LA22-VT005	522LA22-VT006	522LA22-VT007	522LA22-VT008	522LA22-VT009	522LA22-VT010	522LA22-VT011	522LA22-VT012	522LA22-VT013	522LA22-VT014	522LA22-VT015	522LA22-VT016	522LA22-VT017	522LA22-VT018	522LA22-VT019
Invertebrates																					
Annelida	Fan Worm	Sabellidae	-	2	-	1	-	31	58	-	12	295	1	113	258	-	-	-	-	-	-
	Unidentified Annelid		-	-	-	-	-	-	-	16	-	1	-	-	-	-	-	-	-	-	-
	Unidentified Tube Worm		200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Bivalvia	Deep Sea Scallop	*Placopecten magellanicus*	-	-	4	-	-	58	-	-	-	96	7	-	34	-	-	-	-	-	-
	Quahog	*Arctica islandica*	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
	Razor Clam	*Ensis leei*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Surf Clam	*Spisula solidissima*	-	28	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	Unidentified Bivalve		1	-	450	-	231	2	2	-	-	-	-	-	-	350	514	350	1	281	276
Bryozoa	Bryozoan	Bugula spp.	-	-	54	1	-	-	8	-	-	2	8	1	-	1	-	1	-	20	-
Cephalopoda	Long-Finned Squid	*Doryteuthis pealeii*		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	North Atlantic Octopus	*Bathypolypus arcticus*		-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Crustacea	Barnacle	Cirripedia	-	-	-	31	-	-	50	-	-	-	8	-	-	100	-	-	-	-	92
	Hermit Crab	Pagurus sp.	32	69	8	209	12	48	33	41	1	1	35	1	-	4	10	17	10	7	12
	Jonah Crab	*Cancer borealis*	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Northern Lobster	*Homarus americanus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Rock Crab	*Cancer irroatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Shrimp	Caridea	-	13	-	-	-	109	-	3	-	103	4	35	11	-	-	-	-	-	-
	Spider Crab	*Libinia emarginata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Walking Crab	Cancer spp.	1	2	42	1	4	10	50	2	3	19	9	34	37	39	22	3	43	13	38
Ctenophora	Comb Jelly	Ctenophora		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata	Atlantic Purple Sea Urchin	*Arbacia punctulata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Blood Star	Henricia spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Forbes Sea Star	*Asterias forbesi*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Northern Sea Star	*Asterias vulgaris*	-	-	25	-	-	3	1	-	-	-	-	106	-	14	2	-	-	-	-
	Sand Dollar	*Echinarachnius parma*	-	-	-	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sea Cucumber	Dendrochirotida		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Silky Sea Cucumber	*Chiridota laevis*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	Channeled Whelk	Busycotypus spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Moon Snail	*Lunatia heros*	3	7	1	2	5	2	3	17	-	1	19	1	-	5	10	5	3	-	5
	Sea Snail	Gastropoda	-	19	-	2	1	11	-	31	-	1	13	2	4	-	6	12	-	-	-
	Slipper Snail	Crepidula sp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Gastropoda		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Waved Whelk	*Buccinum undatum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydrozoa	Snail Fur	*Hydractinia echinata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Solitary Hydroid	*Corymorpha pendula*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																		
			522LA22-VT001	522LA22-VT002	522LA22-VT003	522LA22-VT004	522LA22-VT005	522LA22-VT006	522LA22-VT007	522LA22-VT008	522LA22-VT009	522LA22-VT010	522LA22-VT011	522LA22-VT012	522LA22-VT013	522LA22-VT014	522LA22-VT015	522LA22-VT016	522LA22-VT017	522LA22-VT018	522LA22-VT019
Hydrozoa	Tubularia Hydroid	*Ectopleura crocea*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Hydroid		12	-	-	-	-	2	31	-	8	1	-	-	-	34	9	-	1	5	214
Non-Scleractinia Anthozoa	Burrowing Anemone	Edwardsia spp.	-	1	90	-	-	4	9	-	-	1	5	2	1	3	11	-	-	3	4
	Diadumene sp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Frilled Anemone	*Metridium senile*		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	9
	Gorgonia	Gorgoniidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Northern Cerianthid	*Cerianthus borealis*	-	-	45	-	2	-	-	-	-	-	3	-	-	2	-	-	9	6	3
	Northern Red Anemone	*Urticina felina*	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	1	-
	Sea Pen	Pennatulidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sea Whip	*Paramuricea clavata*		-	-	-	-	-	-	-	-	-	2	2	3	-	-	-	-	-	-
	Unidentified Anemone		-	-	-	-	-	-	-	1	-	9	8	-	-	2	4	-	-	1	-
Nudibranchia	Red-Gilled Nudibranch	Flabellina sp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Rim-Backed Nudibranch	*Palio dubia*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Nudibranch		-	28	-	-	5	-	-	81	41	22	52	4	1	-	10	5	-	14	9
Porifera	Finger Sponge	*Haliclona oculata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red Beard Sponge	*Clathria (Clathria) prolifera*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sponge	Cliona spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sponge	Halichondria spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sponge	Polymastia spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Encrusting Sponge	Porifera		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Sponge	Porifera		-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Scleractinia (Stony Corals)	Northern Star Coral	*Astrangia poculata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tunicata	Carpet Tunicate	*Didemnum vexillum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Gray Tunicate	*Diplosoma Listerianum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Salp	Salpidae		-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Sea Pork	Aplidium spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sheath Tunicate	Botrylloides spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Tunicate		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	White Crust Tunicate	*Didemnum albidum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertebrates																					
Anguilliformes	Conger Eel	*Conger oceanicus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Eel	Ophichthidae		-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Atheriniformes	Atlantic Silverside	*Menidia menidia*	-	-	-	-	-	-	-	-	100	-	-	-	-	500	-	600	-	-	-
Aulopiformes	Inshore Lizardfish	*Synodus foetens*	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carcharhiniformes	Smooth Dogfish	*Mustelus canis*	-	-	2	5	12	-	6	-	-	-	6	-	-	3	2	15	-	8	1
Clupeiformes	Alewife	*Alosa pseudoharengus*		-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
	Anchovy	Engraulidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gadiformes	Cusk	*Brosme brosme*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Goby	Gobiidae		-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	5	-

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																		
			522LA22-VT001	522LA22-VT002	522LA22-VT003	522LA22-VT004	522LA22-VT005	522LA22-VT006	522LA22-VT007	522LA22-VT008	522LA22-VT009	522LA22-VT010	522LA22-VT011	522LA22-VT012	522LA22-VT013	522LA22-VT014	522LA22-VT015	522LA22-VT016	522LA22-VT017	522LA22-VT018	522LA22-VT019
Gadiformes	Pollock	*Pollachius virens*		-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	Red Hake	*Urophycis chuss*	73	64	25	17	20	1	12	56	24	5	52	2	2	35	37	30	15	16	19
	Silver Hake	*Merluccius bilinearis*	-	108	-	-	-	-	1	-	-	-	-	-	-	-	52	-	-	-	-
	Spotted Hake	*Urophycis regia*		-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1
Lophiiformes	Goosefish	*Lophius americanus*		-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Ophidiiformes	Eel	Ophichthidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fawn Cusk-eel	*Lepophidium profundorum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Perciformes	American Butterfish	*Peprilus triacanthus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Sea Bass	*Centropristis striata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cunner	*Tautogolabrus adspersus*	-	-	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scup	*Stenotomus chrysops*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tautog	*Tautoga onitis*		-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pleuronectiformes	Four-Spot Flounder	*Hippoglossina oblonga*	3	-	-	-	-	-	2	-	-	1	1	1	-	-	-	-	1	-	-
	Hogchoker	*Trinectes maculatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Summer Flounder	*Paralichthys dentatus*		-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-
	Tonguefish	Cynoglossidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Flatfish	Pleuronectiformes	4	5	3	-	-	-	1	4	-	4	2	15	4	-	-	2	4	2	2
	Winter Flounder	*Pseudopleuronectes americanus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Witch Flounder	*Glyptocephalus cynoglossus*			-	1	-	7	1	6	3	-	4	-			-	-	2	-	2	1	-	3	1
Rajiformes	Clearnose Skate	*Rostroraja eglanteria*		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	Little Skate	*Leucoraja erinaceus*		-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1
	Smooth Skate	*Malacoraja senta*		-	-	1	6	2	-	1	-	-	-	-	-	1	-	2	-	-	-
	Unidentified Skate		-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-
	Winter Skate	*Leucoraja ocellata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scorpaeniformes	Northern Sea Robin	*Prionotus carolinus*	1	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-	-
	Ocean Pout	*Zoarces americanus*	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4
	Radiated Shanny	*Ulvaria subbifurcata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sculpin	Cottidae		1	-	2	2	2	-	2	-	1	-			-	-	1	-	2	4
Squaliformes	Spiny Dogfish	*Squalus acanthias*	-	5	-	-	-	-	-	3	14	-	5	-	-	-	-	-	-	-	-
Tetraodontiformes	Northern Puffer	*Sphoeroides maculatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Fish		2	-	1	5	5	3	2	-		1	-	-		1	-	-		7	-	-	7	1
Biogenic Features																					
Encrusted Shell	Empty Shells with Growth		-	-	830	1	553	-	200	-	-	-	-	-	-	300	-	418	3	567	-
Tube or Burrow	Mud Tube		-	8	-	8	-	14	-	83	36	15	47	6	14	-	-	8	-	-	3
	Sand Burrow		143	22.5	-	8	-	4	-	82	110	163	85	30	59	-	8	-	8	-	32
	Tube Made by Polychaete		-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3	-	630
Eggs																					
Cephalopoda	Squid Mop		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	Sand Collar	Moon Snail Egg	1	2	-	1	1	-		2	-	2	-	9	-			-	1	-	-	1	-		-

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																		
			522LA22-VT001	522LA22-VT002	522LA22-VT003	522LA22-VT004	522LA22-VT005	522LA22-VT006	522LA22-VT007	522LA22-VT008	522LA22-VT009	522LA22-VT010	522LA22-VT011	522LA22-VT012	522LA22-VT013	522LA22-VT014	522LA22-VT015	522LA22-VT016	522LA22-VT017	522LA22-VT018	522LA22-VT019
Gastropoda	Whelk Egg Case		6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nudibranchia	Hairy Spiny Doris	*Acanthodoris pilosa* Egg		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rajiformes	Skate Egg Case		-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	2
	Unidentified Eggs		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

Transect IDs	Poject Area	Number of Flora Observations
	Lease Area	No Flora Observations Were Made in The Lease Area

Transect ID	Project Area	Antrhopogenic Gear	Video Time Stamp	Shifted Time Stamp	DAT Time Stamp
522LA22-VT010	Lease Area	Long rope	0:36:24	0:36:24	11:13:17

Appendix F-2: Underwater Video Relative Abundance of Fauna: MA OECC

| Taxa Group | Common Name | Lowest Taxonomic Grouping | Counts per Transect | | |

| Taxa Group | Common Name | Lowest Taxonomic Grouping | Counts per Transect | | |

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																				
			522MA22-VT040	522MA22-VT041ALT	522MA22-VT042	522MA22-VT043	522MA22-VT044	522MA22-VT045	522MA22-VT046	522MA22-VT047	522MA22-VT048	522MA22-VT049	522MA22-VT050	522MA22-VT051	522MA22-VT052	522MA22-VT053	522MA22-VT054	522MA22-VT055	522MA22-VT056	522MA22-VT057	522MA22-VT058	522MA22-VT059
Invertebrates																							
Annelida	Fan Worm	Sabellidae		-	-	-	3	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
	Unidentified Annelid		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
	Unidentified Tube Worm		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Bivalvia	Deep Sea Scallop	*Placopecten magellanicus*		-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Quahog	*Arctica islandica*	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-
	Razor Clam	*Ensis leei*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Surf Clam	*Spisula solidissima*		-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
	Unidentified Bivalve		-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	-	-	10
Bryozoa	Bryozoan	Bugula spp.	2	-	-	-	2	-	-	-	-	-	12	1513	880	300	509	552	1050	167	3	1
Cephalopoda	Long-Finned Squid	*Doryteuthis pealeii*		8	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-
	North Atlantic Octopus	*Bathypolypus arcticus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crustacea	Barnacle	Cirripedia	6	31	-	-	-	-	31	-	92	-	142	192	160	203	-	122	61	59	-	61
	Hermit Crab	Pagurus sp.	78	76	93	-	38	10	11	16	7	161	2	1	-	1	1	-	-	32	10	123
	Jonah Crab	*Cancer borealis*		-	-	-	-	1	-	2	-	-	7	-	-	-	-	-	-	-	-	-
	Northern Lobster	*Homarus americanus*		-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	Rock Crab	*Cancer irroatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Shrimp	Caridea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Spider Crab	*Libinia emarginata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Walking Crab	Cancer spp.	11	11	14	3	13	-	-	37	38	4	1	10	4	-	-	6	-	-	27	16
Ctenophora	Comb Jelly	Ctenophora		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata	Atlantic Purple Sea Urchin	*Arbacia punctulata*	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	Blood Star	Henricia spp.	-	-	-	-	-	-	-	-	-	-	-	41	6	14	30	1	4	-	-	1
	Forbes Sea Star	*Asterias forbesi*	-	-	-	-	-	-	-	-	-	-	7	17	4	7	4	1	-	-	-	-
	Northern Sea Star	*Asterias vulgaris*		-	-	-	-	-	-	-	-	-	-	8	-	-	8	-	-	-	-	1
	Sand Dollar	*Echinarachnius parma*	155	175	-	-	65	-	15	-	-	157	21	2	2	-	-	-	-	-	-	-
	Sea Cucumber	Dendrochirotida		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Silky Sea Cucumber	*Chiridota laevis*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	Channeled Whelk	Busycotypus spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Moon Snail	*Lunatia heros*		-	-	-	-	6	-	5	-	1	2	-	-	-	-	-	1	-	-	-
	Sea Snail	Gastropoda	-	4	-	-	-	-	11	-	-	3	-	-	31	-	-	-	-	14	-	519
	Slipper Snail	Crepidula sp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Gastropoda		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
	Waved Whelk	*Buccinum undatum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydrozoa	Snail Fur	*Hydractinia echinata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Solitary Hydroid	*Corymorpha pendula*	-	-	-	-	-	-	-	-	-	-	13	-	-	59	-	-	-	-	-	-
	Tubularia Hydroid	*Ectopleura crocea*		-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
	Unidentified Hydroid		-	-	-	-	-	-	7.5	-	-	-	1	790	1395	71	342	1396	2972	8	-	122
Non-Scleractinia Anthozoa	Burrowing Anemone	Edwardsia spp.	-	-	-	-	-	-	-	-	-	261	-	104	1	-	-	2	-	-	-	17
	Diadumene sp.		-	-	-	-	-	-	-	-	-	-	15	-	107	-	-	-	-	-	-	-
	Frilled Anemone	*Metridium senile*	-	-	-	-	-	-	-	-	-	-	54	69	31	75.5	68	147	-	-	-	-
	Gorgonia	Gorgoniidae		-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	Northern Cerianthid	*Cerianthus borealis*	-	-	-	-	-	-	-	-	26	-	-	-	-	15	2	-	-	-	-	591
	Northern Red Anemone	*Urticina felina*	-	-	-	-	-	-	-	-	-	4	-	22	22	13	8	38	-	-	-	-
	Sea Pen	Pennatulidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sea Whip	*Paramuricea clavata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Anemone		-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	1	-	-	-	1
Nudibranchia	Red-Gilled Nudibranch	Flabellina sp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Rim-Backed Nudibranch	*Palio dubia*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Nudibranch		-	-	-	-	2	-	10	10	-	-	-	-	-	1	1	-	10	10	-	-
Porifera	Finger Sponge	*Haliclona oculata*		-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
	Red Beard Sponge	*Clathria (Clathria) prolifera*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sponge	Cliona spp.	-	-	-	-	-	-	-	-	-	-	4	31	31	1	5	-	1399	-	-	-
	Sponge	Halichondria spp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sponge	Polymastia spp.	-	-	-	-	-	-	-	-	-	-	1	214	457	-	-	-	15	-	-	-
	Unidentified Encrusting Sponge	Porifera	-	-	-	-	-	-	-	-	-	-	-	870	872	-	55	238	1576	51	-	-
	Unidentified Sponge	Porifera	-	-	-	-	-	-	-	-	-	2	1	4	-	-	24	-	-	-	-	26
Scleractinia (Stony Corals)	Northern Star Coral	*Astrangia poculata*	-	-	-	-	-	-	-	-	-	-	-	413	190	35	140	-	674	-	-	-
Tunicata	Carpet Tunicate	*Didemnum vexillum*		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	Gray Tunicate	*Diplosoma Listerianum*		-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	-	-	-	-
	Salp	Salpidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																			
			522MA22-VT040	522MA22-VT041ALT	522MA22-VT042	522MA22-VT043	522MA22-VT044	522MA22-VT045	522MA22-VT046	522MA22-VT047	522MA22-VT048	522MA22-VT049	522MA22-VT050	522MA22-VT051	522MA22-VT052	522MA22-VT053	522MA22-VT054	522MA22-VT055	522MA22-VT056	522MA22-VT057	522MA22-VT058	522MA22-VT059
Tunicata	Sea Pork	Aplidium spp.		-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-
	Sheath Tunicate	Botrylloides spp.	-	-	-	-	-	-	-	-	-	-	14	-	131	80	27	-	100	-	-	-
	Unidentified Tunicate		-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-
	White Crust Tunicate	*Didemnum albidum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertebrates																						
Anguilliformes	Conger Eel	*Conger oceanicus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Eel	Ophichthidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atheriniformes	Atlantic Silverside	*Menidia menidia*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aulopiformes	Inshore Lizardfish	*Synodus foetens*		-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
Carcharhiniformes	Smooth Dogfish	*Mustelus canis*		-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2
Clupeiformes	Alewife	*Alosa pseudoharengus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Anchovy	Engraulidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gadiformes	Cusk	*Brosme brosme*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Goby	Gobiidae	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Pollock	*Pollachius virens*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red Hake	*Urophycis chuss*	16	4	3	-	-	-	14	11	6	11	1	4	3	-	11	33	-	-	17	17
	Silver Hake	*Merluccius bilinearis*	-	3	-	-	10	-	18	-	-	-	-	-	-	-	-	3	-	-	-	-
	Spotted Hake	*Urophycis regia*		-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Lophiiformes	Goosefish	*Lophius americanus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ophidiiformes	Eel	Ophichthidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fawn Cusk-eel	*Lepophidium profundorum*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perciformes	American Butterfish	*Peprilus triacanthus*	-	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Sea Bass	*Centropristis striata*		2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	-	-	-
	Cunner	*Tautogolabrus adspersus*	-	-	-	-	-	-	-	2	-	-	-	-	1	12	42	-	-	72	-	-
	Scup	*Stenotomus chrysops*	-	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	1
	Tautog	*Tautoga onitis*	-	1	-	-	-	-	-	-	-	-	-	11	4	-	-	2	2	-	-	-
Pleuronectiformes	Four-Spot Flounder	*Hippoglossina oblonga*		-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1
	Hogchoker	*Trinectes maculatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Summer Flounder	*Paralichthys dentatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tonguefish	Cynoglossidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Flatfish	Pleuronectiformes		6	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	1
	Winter Flounder	*Pseudopleuronectes americanus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Witch Flounder	*Glyptocephalus cynoglossus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rajiformes	Clearnose Skate	*Rostroraja eglanteria*		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	Little Skate	*Leucoraja erinaceus*		-	-	-	-	1	-	-	3	-	1	-	5	1	-	-	-	-	-	6
	Smooth Skate	*Malacoraja senta*		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	Unidentified Skate		1	-	1	-	-	-	-	2	-	1	-	-	-	-	-	1	-	1	2	-
	Winter Skate	*Leucoraja ocellata*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scorpaeniformes	Northern Sea Robin	*Prionotus carolinus*		4	-	-	-	1	1	5	1	1	1	1	-	-	-	-	-	2	-	-
	Ocean Pout	*Zoarces americanus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Radiated Shanny	*Ulvaria subbifurcata*		7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sculpin	Cottidae		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Squaliformes	Spiny Dogfish	*Squalus acanthias*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetraodontiformes	Northern Puffer	*Sphoeroides maculatus*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Fish		2	1	4	-	-	-	-	-	-	7	-	-	-	1	-	2	2	5	13	-
Biogenic Features																						
Encrusted Shell	Empty Shells with Growth		3	2	-	-	-	-	-	-	3	6	-	-	-	6	-	-	-	-	-	-
Tube or Burrow	Mud Tube		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sand Burrow		-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	9	-	-	-	23
	Tube Made by Polychaete		-	8	-	-	-	-	-	-	-	-	1	338	184	108	-	-	-	-	-	600
Eggs																						
Cephalopoda	Squid Mop		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	Sand Collar	Moon Snail Egg		-	-	-	-	-	-	-	-	-	3	-	1	-	1	-	-	-	-	-
Gastropoda	Whelk Egg Case		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nudibranchia	Hairy Spiny Doris	*Acanthodoris pilosa* Egg		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rajiformes	Skate Egg Case		5	-	4	-	-	-	-	1	-	2	1	1	11	8	-	-	-	-	-	1
	Unidentified Eggs		-	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-

Transect IDs	Poject Area	Number of Flora Observations												
		Brown Algae			Red Algae				Green Algae				Eelgrass	Unknown	Grand Total
		Unidentified Brown Algae	*Petalonia fascia*	*Chorda filum*	*Callithamnion sp.*	*Chondrus crispus*	*Porphyra sp.*	Unidentified Red Algae	*Cladophora sp.*	*Codium fragile*	Unidentified Green Algae	*Ulva lactuca*	*Zostera marina*		
522MA22-VT001	MA OECC	-	-	-	-	-	-	-	-	-	3	-	-	-	**3**
522MA22-VT002		-	-	-	-	-	-	10	-	-	6	-	-	-	**16**
522MA22-VT003		2	-	-	-	-	-	3	-	-	-	-	-	-	**5**
522MA22-VT005		-	-	-	-	-	-	70	-	-	1	-	-	-	**71**
522MA22-VT007		-	-	-	-	-	-	3	-	-	2	-	-	1	**6**
522MA22-VT008		-	-	-	-	-	-	3	-	-	-	-	-	-	**3**
522MA22-VT009		-	-	-	-	-	-	-	-	-	3	-	-	-	**3**
522MA22-VT010		-	-	-	-	-	-	-	-	-	3	-	-	-	**3**
522MA22-VT011		3	-	-	-	-	-	-	-	-	-	-	-	-	**3**
522MA22-VT014		-	-	-	-	-	-	2	-	-	1	-	-	-	**3**
522MA22-VT024		-	-	-	-	-	-	4	-	-	-	-	-	-	**4**
522MA22-VT027		-	-	-	-	-	-	-	-	-	1	-	-	-	**1**
522MA22-VT036		3	-	-	-	-	-	-	-	-	1	-	-	-	**1**
522MA22-VT040		3	-	-	-	-	-	-	-	-	2	-	-	-	**5**
522MA22-VT048		-	-	-	-	-	-	-	-	-	-	-	-	1	**1**
522MA22-VT056		-	-	-	-	-	-	480	-	-	-	-	-	-	**480**
522MA22-VT057		-	-	-	-	-	-	-	-	-	5	-	-	-	**5**
522MA22-VT058		-	-	-	-	-	-	-	-	-	2	-	-	-	**2**

Transect ID	Project Area	Antrhopogenic Gear	Video Time Stamp	Shifted Time Stamp	DAT Time Stamp
522MA22-VT006	MA OECC	Long rope	0:11:40	0:11:40	4:03:32
522MA22-VT020		Derelict crab trap with rope	0:44:51	0:44:51	11:24:45
522MA22-VT022ALT		Plastic cup	0:11:51	0:11:27	6:27:43
522MA22-VT030		Potentially string	0:17:01	0:17:01	3:20:33
522MA22-VT052		Derelict crab trap	0:29:02	0:28:42	8:21:05
522MA22-VT052		Derelict crab trap	0:29:19	0:28:59	8:21:22

Appendix F-3: Underwater Video Relative Abundance of Fauna: CT OECC

| Taxa Group | Common Name | Lowest Taxonomic Grouping | Counts per Transect | | |

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect																																					
			522CT22-VT001	522CT22-VT002	522CT22-VT003	522CT22-VT004	522CT22-VT005	522CT22-VT006	522CT22-VT007	522CT22-VT008	522CT22-VT009	522CT22-VT010	522CT22-VT011	522CT22-VT012	522CT22-VT013	522CT22-VT014	522CT22-VT015	522CT22-VT016	522CT22-VT017	522CT22-VT018	522CT22-VT019	522CT22-VT020	522CT22-VT021	522CT22-VT022	522CT22-VT023	522CT22-VT024	522CT22-VT025	522CT22-VT026	522CT22-VT027	522CT22-VT028	522CT22-VT029	522CT22-VT030	522CT22-VT031	522CT22-VT032	522CT22-VT033	522CT22-VT034	522CT22-VT035	522CT22-VT036
Tunicata	Carpet Tunicate	*Didemnum vexillum*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Gray Tunicate	*Diplosoma Listerianum*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Salp	Salpidae			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sea Pork	Aplidium spp.			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sheath Tunicate	Botrylloides spp.			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Tunicate		-	10	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-	4	-	2	-	-	-	-	-	-	-
	White Crust Tunicate	*Didemnum albidum*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertebrates																																								
Anguilliformes	Conger Eel	*Conger oceanicus*			-	-	-	-	-	3	-	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-
	Unidentified Eel	Ophichthidae			-	-	-	3	-	1	2	-	-	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atheriniformes	Atlantic Silverside	*Menidia menidia*	-	5	-	-	2	-	8	-	4	-	-	-	-	-	-	1	-	-	7.5	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-
Aulopiformes	Inshore Lizardfish	*Synodus foetens*			-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carcharhiniformes	Smooth Dogfish	*Mustelus canis*	3	3	5	-	-	-	6	-	-	-	3	-	-	-	-	-	-	3	4	-	-	104	-	14	-	-	35	2	15	-	-	-	-	-	-	-	-	-
Clupeiformes	Alewife	*Alosa pseudoharengus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Anchovy	Engraulidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gadiformes	Cusk	*Brosme brosme*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Goby	Gobiidae			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Pollock	*Pollachius virens*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red Hake	*Urophycis chuss*	2	2	3	-	1	3	-	9	-	8	-	-	-	-	1	1	-	2	1	-	-	3	-	1	5	-	2	-	1	-	-	-	-	-	-	-	-	-
	Silver Hake	*Merluccius bilinearis*		2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Spotted Hake	*Urophycis regia*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lophiiformes	Goosefish	*Lophius americanus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ophidiiformes	Eel	Ophichthidae			-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fawn Cusk-eel	*Lepophidium profundorum*		4	-	-	6	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perciformes	American Butterfish	*Peprilus triacanthus*			-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Sea Bass	*Centropristis striata*			-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
	Cunner	*Tautogolabrus adspersus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scup	*Stenotomus chrysops*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	4	3	-	-	-
	Tautog	*Tautoga onitis*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pleuronectiformes	Four-Spot Flounder	*Hippoglossina oblonga*		2	-	-	-	-	-	1	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	1	2	-	-	-	-	-	-	-	-	-	-
	Hogchoker	*Trinectes maculatus*			-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Summer Flounder	*Paralichthys dentatus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tonguefish	Cynoglossidae			-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Flatfish	Pleuronectiformes	-	-	3	23	7	-	-	1	-	-	3	1	-	-	1	-	-	-	7	1	-	-	3	1	-	32	5	-	3	1	7	-	-	-	-	-	-	-
	Winter Flounder	*Pseudopleuronectes americanus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Witch Flounder	*Glyptocephalus cynoglossus*	-	7	-	-	-	13	-	15	-	18	-	33	-	28	-	5	-	10	-	7	-	4	-	4	-	-	-	8	-	-	-	-	-	-	-	-	-	-
Rajiformes	Clearnose Skate	*Rostroraja eglanteria*	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	-	-	-	-	-	-	-	1	-	15	-	3	-	-	-	-	-	-	-	-	-
	Little Skate	*Leucoraja erinaceus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	2	2	-	-	-	-	1	-	-	2	-	-
	Smooth Skate	*Malacoraja senta*			-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	3	-	-	3	-	-	-	-	-
	Unidentified Skate		-			-	1	-	-		2	2	-	-	-	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	6	-	6	6	6	-	1	-	-
	Winter Skate	*Leucoraja ocellata*			-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-	-
Scorpaeniformes	Northern Sea Robin	*Prionotus carolinus*			-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	8	-	1	5	1	-	-	-	8	-	-	-
	Ocean Pout	*Zoarces americanus*			-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Radiated Shanny	*Ulvaria subbifurcata*	-	2	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	Sculpin	Cottidae			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
Squaliformes	Spiny Dogfish	*Squalus acanthias*	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	8	-	31	-	-	34	-	1	-	-	-	-	-	-	-	-	-
Tetraodontiformes	Northern Puffer	*Sphoeroides maculatus*			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unidentified Fish		-			-	3	-	1	3	3	6	3	-	1	1	1	1	2	2	2	3	1	3	1	4	2	2	-		3	-	3	-			-	-	1	-	-			-
Biogenic Features																																								
Encrusted Shell	Empty Shells with Growth		-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	4	-	-	-	1	-	-	-	-	-	-	-	-	-
Tube or Burrow	Mud Tube		-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sand Burrow		-	25	55	1	7	7	-	1	135	29	1	17	-	100	22	-	-	4	28	-	-	4	-	-	10	66	17	-	4	-	7	-	-	-	-	-	-
	Tube Made by Polychaete		-	-	-	-	202	-	-	-	-	-	-	-	-	-	-	-	-	100	-	100	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Eggs																																								
Cephalopoda	Squid Mop		-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	Sand Collar	Moon Snail Egg			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	2	-	-	5	4	4	-
Gastropoda	Whelk Egg Case		-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nudibranchia	Hairy Spiny Doris	*Acanthodoris pilosa* Egg			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rajiformes	Skate Egg Case		-			-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	1	-	-	-	3	-
	Unidentified Eggs		-			-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-

| Taxa Group | Common Name | Lowest Taxonomic Grouping | per Transect | | |

| Taxa Group | Common Name | Lowest Taxonomic Grouping | per Transect | | |

| Taxa Group | Common Name | Lowest Taxonomic Grouping | Counts Per Transect | | |

| Taxa Group | Common Name | Lowest Taxonomic Grouping | Counts per Transect | | |

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect					
			522CT22-VT113	522CT22-VT114	522CT22-VT115	522CT22-VT116	522CT22-VT117	522CT22-VT118
Invertebrates								
Annelida	Fan Worm	Sabellidae	-	-	-	-	-	-
	Unidentified Annelid		-	-	-	-	-	-
	Unidentified Tube Worm		-	-	-	-	-	-
Bivalvia	Deep Sea Scallop	*Placopecten magellanicus*	-	-	-	-	-	-
	Quahog	*Arctica islandica*	-	-	-	-	-	-
	Razor Clam	*Ensis leei*	-	-	-	-	-	-
	Surf Clam	*Spisula solidissima*	-	-	-	-	-	-
	Unidentified Bivalve		-	-	-	-	-	-
Bryozoa	Bryozoan	Bugula spp.	-	-	-	7	-	-
Cephalopoda	Long-Finned Squid	*Doryteuthis pealeii*	-	-	-	-	-	-
	North Atlantic Octopus	*Bathypolypus arcticus*	-	-	-	-	-	-
Crustacea	Barnacle	Cirripedia	-	-	-	-	-	-
	Hermit Crab	Pagurus sp.	-	-	-	-	-	-
	Jonah Crab	*Cancer borealis*	-	-	-	-	-	-
	Northern Lobster	*Homarus americanus*	-	-	-	-	-	-
	Rock Crab	*Cancer irroatus*	-	-	-	-	-	-
	Shrimp	Caridea	-	-	-	-	-	-
	Spider Crab	*Libinia emarginata*	-	-	-	-	-	-
	Walking Crab	Cancer spp.	-	-	-	-	-	-
Ctenophora	Comb Jelly	Ctenophora	-	-	4	-	4	23
Echinodermata	Atlantic Purple Sea Urchin	*Arbacia punctulata*	-	-	-	-	-	-
	Blood Star	Henricia spp.	-	-	-	-	-	-
	Forbes Sea Star	*Asterias forbesi*	-	-	-	-	-	-
	Northern Sea Star	*Asterias vulgaris*	-	-	-	-	-	-
	Sand Dollar	*Echinarachnius parma*	-	-	-	-	-	-
	Sea Cucumber	Dendrochirotida	-	-	-	-	-	-
	Silky Sea Cucumber	*Chiridota laevis*	-	-	-	-	-	-
Gastropoda	Channeled Whelk	Busycotypus spp.	2	-	-	-	-	-
	Moon Snail	*Lunatia heros*	-	-	-	-	-	-
	Sea Snail	Gastropoda	-	-	-	-	-	-
	Slipper Snail	Crepidula sp.	-	-	-	-	-	-
	Unidentified Gastropoda		-	-	-	-	-	-
	Waved Whelk	*Buccinum undatum*	-	-	-	-	-	-
Hydrozoa	Snail Fur	*Hydractinia echinata*	-	-	-	-	-	-
	Solitary Hydroid	*Corymorpha pendula*	-	-	-	1	-	-
	Tubularia Hydroid	*Ectopleura crocea*	-	-	-	-	-	-
	Unidentified Hydroid		-	-	-	-	-	-
Non-Scleractinia Anthozoa	Burrowing Anemone	Edwardsia spp.	-	-	-	-	-	-
	Diadumene anemone	*Diadumene sp.*	-	-	-	-	-	-
	Frilled Anemone	*Metridium senile*	-	-	-	-	-	-
	Gorgonia	Gorgoniidae	-	-	-	-	-	-
	Northern Cerianthid	*Cerianthus borealis*	-	-	-	-	-	-
	Northern Red Anemone	*Urticina felina*	-	-	-	-	-	-
	Sea Pen	Pennatulidae	-	-	-	-	-	-
	Sea Whip	*Paramuricea clavata*	-	-	-	-	-	-
	Unidentified Anemone		-	-	-	-	-	-
Nudibranchia	Red-Gilled Nudibranch	Flabellina sp.	-	-	-	-	-	-
	Rim-Backed Nudibranch	*Palio dubia*	-	-	-	-	-	-
	Unidentified Nudibranch		-	-	-	-	-	-
Porifera	Finger Sponge	*Haliclona oculata*	-	-	-	-	-	-
	Red Beard Sponge	*Clathria (Clathria) prolifera*	-	-	-	-	-	-
	Sponge	Cliona spp.	-	-	15	-	-	-
	Sponge	Halichondria spp.	-	-	-	-	-	-
	Sponge	Polymastia spp.	3	-	-	-	-	-
	Unidentified Encrusting Sponge	Porifera	-	-	-	-	-	-
	Unidentified Sponge	Porifera	1	16	-	-	-	-
Scleractinia (Stony Corals)	Northern Star Coral	*Astrangia poculata*	-	-	-	-	-	-

Taxa Group	Common Name	Lowest Taxonomic Grouping	Counts per Transect					
			522CT22-VT113	522CT22-VT114	522CT22-VT115	522CT22-VT116	522CT22-VT117	522CT22-VT118
Tunicata	Carpet Tunicate	*Didemnum vexillum*	-	-	-	-	-	-
	Gray Tunicate	*Diplosoma Listerianum*	-	-	-	2	-	-
	Salp	Salpidae	-	-	-	-	-	-
	Sea Pork	Aplidium spp.	-	-	-	-	-	-
	Sheath Tunicate	Botrylloides spp.	-	-	-	-	-	-
	Unidentified Tunicate		-	-	-	-	-	-
	White Crust Tunicate	*Didemnum albidum*	-	-	-	-	-	-
Vertebrates			-	-	-	-	-	-
Anguilliformes	Conger Eel	*Conger oceanicus*	-	-	-	-	-	-
	Unidentified Eel	Ophichthidae	-	-	-	-	-	-
Atheriniformes	Atlantic Silverside	*Menidia menidia*	-	-	-	-	-	-
Aulopiformes	Inshore Lizardfish	*Synodus foetens*	-	-	-	-	-	-
Carcharhiniformes	Smooth Dogfish	*Mustelus canis*	-	-	-	-	-	-
Clupeiformes	Alewife	*Alosa pseudoharengus*	-	-	-	-	-	-
	Anchovy	Engraulidae	-	-	-	-	-	-
Gadiformes	Cusk	*Brosme brosme*	-	-	-	-	-	-
	Goby	Gobiidae	-	-	-	-	-	-
	Pollock	*Pollachius virens*	-	-	-	-	-	-
	Red Hake	*Urophycis chuss*	-	-	-	-	-	-
	Silver Hake	*Merluccius bilinearis*	-	-	-	-	-	-
	Spotted Hake	*Urophycis regia*	-	-	-	-	-	-
Lophiiformes	Goosefish	*Lophius americanus*	-	-	-	-	-	-
Ophidiiformes	Eel	Ophichthidae	-	-	-	-	-	-
	Fawn Cusk-eel	*Lepophidium profundorum*	-	-	-	-	-	-
Perciformes	American Butterfish	*Peprilus triacanthus*	-	-	-	-	-	-
	Black Sea Bass	*Centropristis striata*	-	-	-	1	-	-
	Cunner	*Tautogolabrus adspersus*	29	8	-	41	-	1
	Scup	*Stenotomus chrysops*	-	-	-	-	-	-
	Tautog	*Tautoga onitis*	-	-	-	-	-	-
Pleuronectiformes	Four-Spot Flounder	*Hippoglossina oblonga*	-	-	-	-	-	-
	Hogchoker	*Trinectes maculatus*	-	-	-	-	-	-
	Summer Flounder	*Paralichthys dentatus*	-	-	1	-	-	-
	Tonguefish	Cynoglossidae	-	-	-	-	-	-
	Unidentified Flatfish	Pleuronectiformes	-	-	-	1	-	-
	Winter Flounder	*Pseudopleuronectes americanus*	-	-	-	-	-	-
	Witch Flounder	*Glyptocephalus cynoglossus*	-	-	-	-	-	-
Rajiformes	Clearnose Skate	*Rostroraja eglanteria*	-	1	-	-	-	-
	Little Skate	*Leucoraja erinaceus*	-	-	-	-	-	-
	Smooth Skate	*Malacoraja senta*	-	-	-	-	-	-
	Unidentified Skate		-	-	-	-	-	-
	Winter Skate	*Leucoraja ocellata*	-	-	-	-	-	-
Scorpaeniformes	Northern Sea Robin	*Prionotus carolinus*	-	-	-	-	-	-
	Ocean Pout	*Zoarces americanus*	-	-	-	-	-	-
	Radiated Shanny	*Ulvaria subbifurcata*	-	-	-	-	-	-
	Sculpin	Cottidae	-	-	-	-	-	-
Squaliformes	Spiny Dogfish	*Squalus acanthias*	-	-	-	-	-	-
Tetraodontiformes	Northern Puffer	*Sphoeroides maculatus*	-	-	-	-	-	-
	Unidentified Fish		17	4	-	12	8	1
Biogenic Features								
Encrusted Shell	Empty Shells with Growth		-	-	-	-	-	-
Tube or Burrow	Mud Tube		-	-	-	-	-	-
	Sand Burrow		-	-	-	-	-	-
	Tube Made by Polychaete		6	59	24	-	-	1
Eggs								
Cephalopoda	Squid Mop		-	-	-	-	-	-
Gastropoda	Sand Collar	Moon Snail Egg	-	-	-	-	-	-
Gastropoda	Whelk Egg Case		-	-	-	-	-	-
Nudibranchia	Hairy Spiny Doris	*Acanthodoris pilosa* Egg	-	-	-	-	-	-
Rajiformes	Skate Egg Case		-	-	-	-	-	-
	Unidentified Eggs		-	-	-	-	-	-

Transect IDs	Poject Area	Number of Flora Observations													
		Brown Algae			Red Algae				Green Algae				Eelgrass	Unknown	Grand Total
		Unidentified Brown Algae	*Petalonia fascia*	*Chorda filum*	*Callithamnion sp.*	*Chondrus crispus*	*Porphyra sp.*	Unidentified Red Algae	*Cladophora sp.*	*Codium fragile*	Unidentified Green Algae	*Ulva lactuca*	*Zostera marina*		
522CT22-VT007	CT OECC	-	-	-	-	-	-	-	-	-	6	-	-	-	**6**
522CT22-VT008		1	-	-	-	-	-	-	-	-	-	-	-	-	**1**
522CT22-VT027		-	-	-	-	-	-	-	-	-	9	-	-	-	**9**
522CT22-VT029		-	-	-	-	-	-	-	-	-	3	-	-	-	**3**
522CT22-VT030		-	-	-	-	-	-	1	-	-	-	-	-	-	**1**
522CT22-VT031		1	-	-	-	-	-	9	-	-	1	-	-	-	**11**
522CT22-VT034		-	-	-	-	-	-	-	-	-	2	-	-	-	**2**
522CT22-VT035		-	-	-	-	-	-	7	-	-	-	-	-	-	**7**
522CT22-VT036		-	-	-	-	-	-	10	-	-	-	-	-	-	**10**
522CT22-VT038		-	-	-	-	-	-	10	-	-	-	-	-	-	**10**
522CT22-VT040		-	-	-	-	-	-	1	-	-	-	-	-	-	**1**
522CT22-VT041		-	-	-	-	-	-	11	-	-	1	-	-	-	**12**
522CT22-VT043		-	-	-	-	-	-	-	-	-	1	-	-	-	**1**
522CT22-VT044		-	-	-	-	-	-	42	-	-	46	-	-	-	**88**
522CT22-VT045		-	-	-	-	-	-	2	-	-	-	-	-	-	**2**
522CT22-VT047		7	-	-	-	-	-	11	-	-	4	-	-	-	**22**
522CT22-VT048		-	-	-	-	-	-	6	-	-	1	-	-	-	**7**
522CT22-VT049		-	-	-	-	-	-	1	-	-	-	-	-	-	**1**
522CT22-VT052		-	-	-	-	-	-	1	-	-	13	-	-	-	**14**
522CT22-VT054		-	-	-	-	-	-	1	-	-	3	-	-	-	**4**
522CT22-VT056		-	-	-	-	-	-	1	-	-	-	-	-	-	**1**
522CT22-VT060		-	-	-	-	-	-	16	-	-	3	-	-	-	**19**
522CT22-VT062		-	-	-	-	-	-	20	-	-	28	-	-	-	**48**
522CT22-VT064		-	-	-	-	-	-	-	-	-	60	-	-	-	**60**
522CT22-VT065		25	-	-	-	-	-	33	-	-	3	-	-	-	**61**
522CT22-VT066		-	-	-	-	-	-	15	-	-	4	-	-	-	**19**
522CT22-VT067		-	7	-	-	-	-	27	204	-	-	-	-	-	**238**
522CT22-VT068		119	-	-	-	-	-	5	37	-	-	29	-	-	**190**
522CT22-VT069		-	-	-	-	-	-	1	-	-	-	-	-	-	**1**
522CT22-VT070		-	-	-	-	-	-	-	-	-	1	-	-	-	**1**
522CT22-VT072		-	-	-	-	-	-	55	-	-	14	-	-	1	**70**
522CT22-VT073		28	-	-	-	-	-	12	-	-	3	-	-	-	**43**
522CT22-VT074		-	-	-	-	-	-	3	-	-	4	-	-	-	**7**
522CT22-VT075		37	-	-	-	-	-	61	-	-	-	-	-	1	**98**
522CT22-VT076		-	-	-	-	-	-	7	-	-	8	-	-	-	**15**
522CT22-VT077		-	-	-	-	-	-	59	-	-	130	-	-	-	**189**
522CT22-VT078		-	-	-	-	-	-	-	-	-	19	-	-	-	**19**
522CT22-VT079		39	-	-	-	-	-	28	-	-	1	-	-	-	**68**
522CT22-VT080		-	-	-	-	-	-	2	-	-	36	-	-	-	**38**
522CT22-VT081		57	-	-	-	-	-	101	-	-	4	-	-	-	**162**
522CT22-VT082		-	-	-	-	-	-	17	-	-	185	-	-	-	**202**
522CT22-VT083		-	-	-	-	-	-	5	-	-	9	-	-	-	**14**
522CT22-VT084		-	-	-	-	-	-	4	-	-	-	-	-	-	**4**

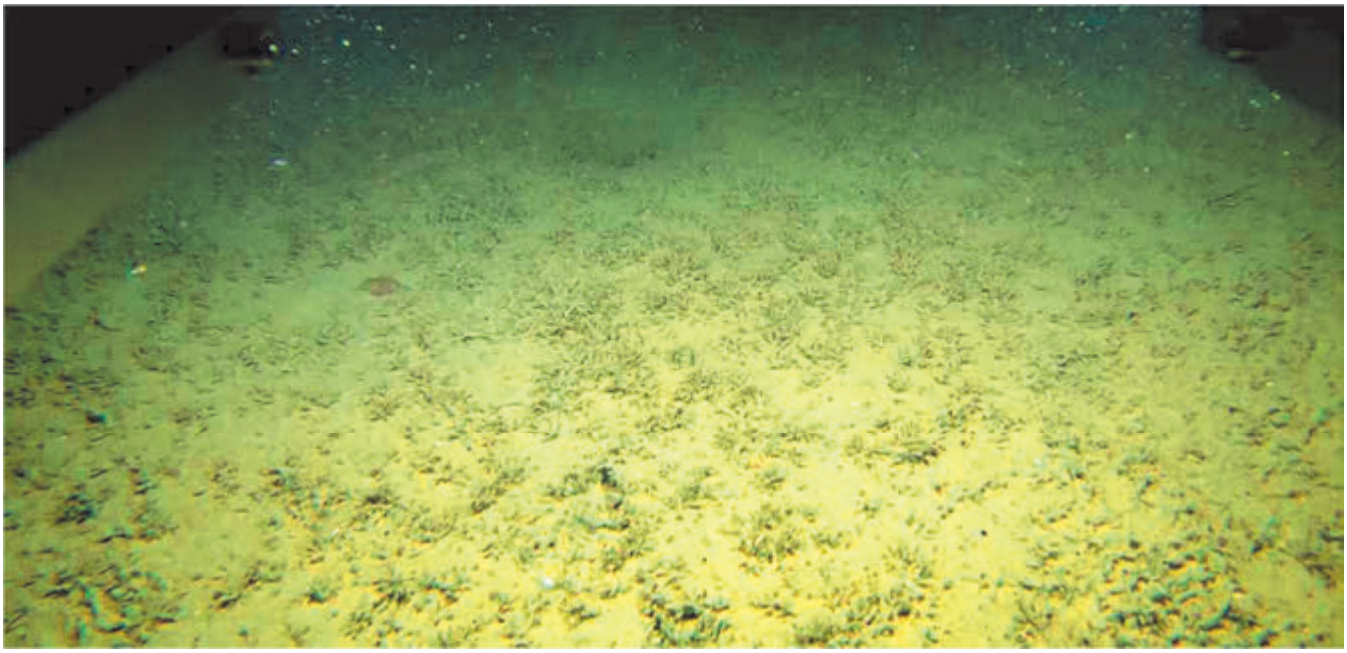
Transect IDs	Poject Area	Number of Flora Observations												
		Brown Algae			Red Algae				Green Algae				Eelgrass	Unknown	Grand Total
		Unidentified Brown Algae	*Petalonia fascia*	*Chorda filum*	*Callithamnion sp.*	*Chondrus crispus*	*Porphyra sp.*	Unidentified Red Algae	*Cladophora sp.*	*Codium fragile*	Unidentified Green Algae	*Ulva lactuca*	*Zostera marina*		
522CT22-VT085	CT OECC	-	-	-	-	-	-	1	-	-	1	-	-	-	**2**
522CT22-VT086		-	-	-	-	-	-	1	1	-	-	-	-	-	**2**
522CT22-VT088		-	-	-	-	-	-	34	-	-	-	-	-	-	**34**
522CT22-VT089		2	-	-	-	-	-	16	-	-	3	-	-	-	**21**
522CT22-VT090		-	-	-	-	-	-	30	-	-	-	-	-	-	**30**
522CT22-VT092		-	-	-	-	-	-	9	-	-	3	-	-	1	**13**
522CT22-VT093		-	-	-	-	-	-	1	-	-	1	-	-	-	**2**
522CT22-VT095		2	-	-	-	-	-	2	-	-	-	-	-	-	**4**
522CT22-VT096		-	-	-	-	-	-	1	-	-	-	-	-	-	**1**
522CT22-VT098		-	-	-	-	-	-	818	-	-	94	-	-	-	**912**
522CT22-VT101		-	-	-	-	-	-	2	-	-	-	-	-	-	**2**
522CT22-VT102		1	-	-	-	4	-	19	-	-	-	2	-	-	**26**
522CT22-VT106		-	-	-	-	-	-	-	-	-	3	-	-	-	**3**
522CT22-VT107		-	-	-	-	-	-	1	-	-	2	-	-	-	**3**
522CT22-VT108		-	-	-	-	-	31	45	43	-	-	-	-	-	**119**
522CT22-VT109		1	-	-	-	-	-	5	-	-	1	-	-	-	**7**
522CT22-VT110		162	-	-	-	-	-	205	8	4	-	45	17	2	**443**
522CT22-VT111		18	2	1	1	-	-	169	10	3	-	48	-	6	**258**
522CT22-VT112		-	-	-	-	-	-	1	7	-	-	-	-	-	**8**
522CT22-VT113		-	-	-	-	-	-	3	5	-	-	-	1	-	**9**
522CT22-VT114		61	66	-	-	25	9	50	25	-	26	-	-	-	**262**
522CT22-VT115		29	-	-	-	-	-	116	19	-	-	4	-	-	**168**
522CT22-VT116		-	-	-	-	-	-	5	11	-	-	-	-	-	**16**
522CT22-VT117		2	-	-	-	-	-	90	102	-	-	3	77	-	**274**
522CT22-VT118		19	4	-	-	3	185	5	12	-	48	8	-	2	**286**

Transect ID	Project Area	Antrhopogenic Gear	Video Time Stamp	Shifted Time Stamp	DAT Time Stamp
522CT22-VT002	CT OECC	Small pipe	0:15:53	0:15:53	10:21:27
522CT22-VT002		Derelict crab trap with rope	0:25:28	0:25:28	10:31:02
522CT22-VT003		Derelict crab trap	0:08:59	0:08:59	3:58:18
522CT22-VT008		Large spool of rope	0:34:29	0:34:29	3:59:33
522CT22-VT008		Derelict crab trap	0:34:32	0:34:32	3:59:36
522CT22-VT008		Plastic cup	0:35:29	0:35:29	4:00:33
522CT22-VT010		Rope	0:23:10	0:23:10	5:57:08
522CT22-VT010		Long rope under surface of substrate	0:25:01	0:25:01	5:58:59
522CT22-VT010		Long rope	0:29:24	0:29:24	6:03:22
522CT22-VT010		Derelict crab trap with rope and plastic cup	0:31:15	0:31:15	6:05:13
522CT22-VT010		Rope	0:36:14	0:36:14	6:10:12
522CT22-VT010		Derelict crab trap with rope	0:38:00	0:38:00	6:11:58
522CT22-VT010		Long rope under surface of substrate	0:39:44	0:39:44	6:13:42
522CT22-VT010		Derelict crab trap	0:40:24	0:40:24	6:14:22
522CT22-VT010		Long rope under surface of substrate	0:43:13	0:43:13	6:17:11
522CT22-VT010		Long rope	0:43:21	0:43:21	6:17:19
522CT22-VT050		Long thin pipe or thin rope	0:06:56	0:02:40	8:02:45
522CT22-VT055		Rope	0:37:44	0:37:44	6:57:03
522CT22-VT055		Piece of wood	0:44:37	0:44:37	7:03:56
522CT22-VT055		Derelict crab trap	0:48:50	0:48:50	7:08:09
522CT22-VT055		Long wooden beam	0:48:55	0:48:55	7:08:14
522CT22-VT055		Rope connected to wooden beam	0:49:00	0:49:00	7:08:19
522CT22-VT057		Metal ladder	0:23:04	0:11:46	5:31:04
522CT22-VT061		Large wooden plank	0:12:01	0:08:07	4:02:46
522CT22-VT062		Derelict crab trap (1 of 2)	0:23:13	0:23:13	7:36:17
522CT22-VT062		Derelict crab trap (2 of 2)	0:23:19	0:23:19	7:36:23
522CT22-VT064		Potentially rope	0:18:52	0:18:52	6:48:25
522CT22-VT068		Long rope or pipe	0:03:20	0:03:20	10:16:55
522CT22-VT069		Large rope	0:22:49	0:22:49	7:27:23
522CT22-VT070		Rope	0:28:37	0:13:28	11:35:36
522CT22-VT080		Large derelict crab trap	0:22:19	0:22:19	9:41:27
522CT22-VT080		Derelict crab trap	0:23:33	0:23:33	9:42:41
522CT22-VT090		Metal fishing weight	0:40:35	0:40:35	6:54:22
522CT22-VT090		Metal fishing weight	0:41:06	0:41:06	6:54:53
522CT22-VT094		Plastic 1L bottle	0:10:44	0:10:44	8:02:54
522CT22-VT105		Trash/plastic	0:18:42	0:13:02	8:00:44
522CT22-VT111		Plastic bottle	0:09:31	0:09:31	9:54:36
522CT22-VT112		Long rope or pipe	0:01:54	0:01:54	8:36:53

Appendix G-1: Underwater Video Representative Images: 522 Lease Area

REPRESENTATIVE IMAGE

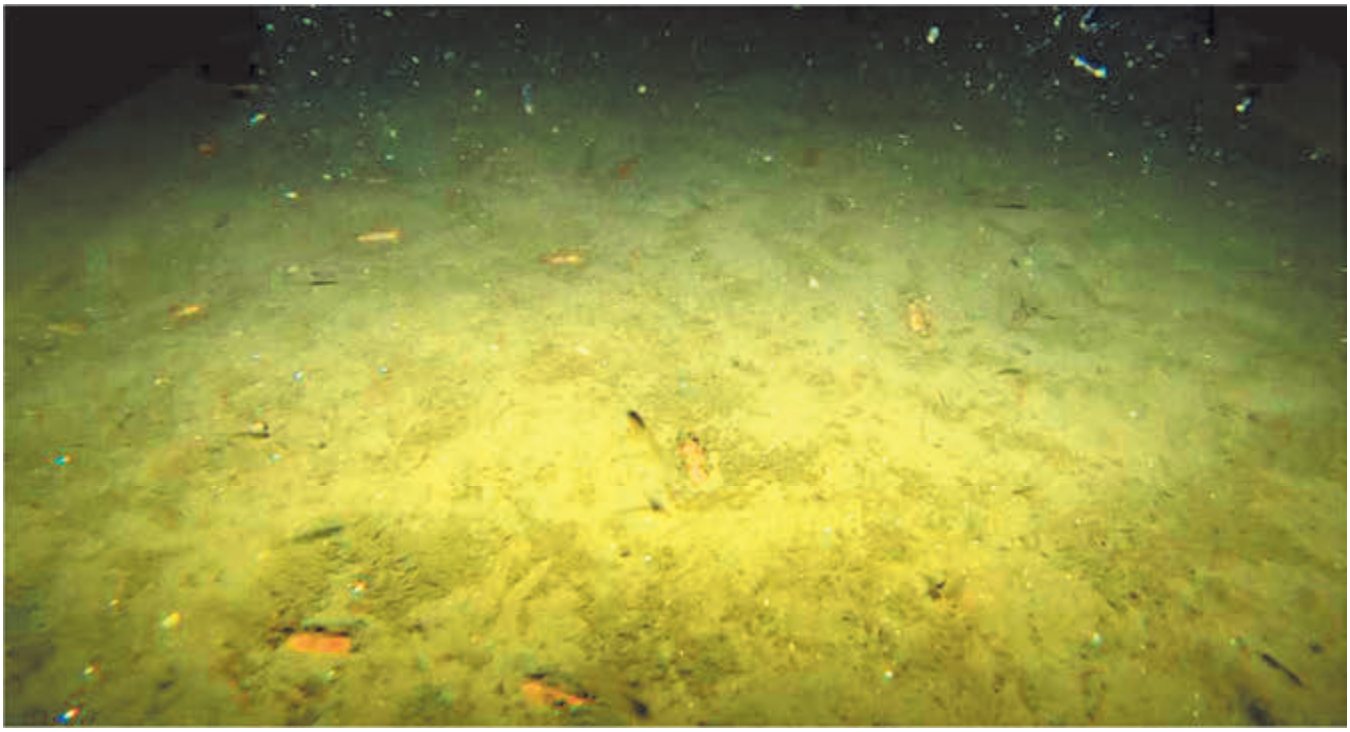
Mud Tube Field
Transect 522LA22-VT009-1



Representative Image of CMECS Type: Mud Tube Field

REPRESENTATIVE IMAGE

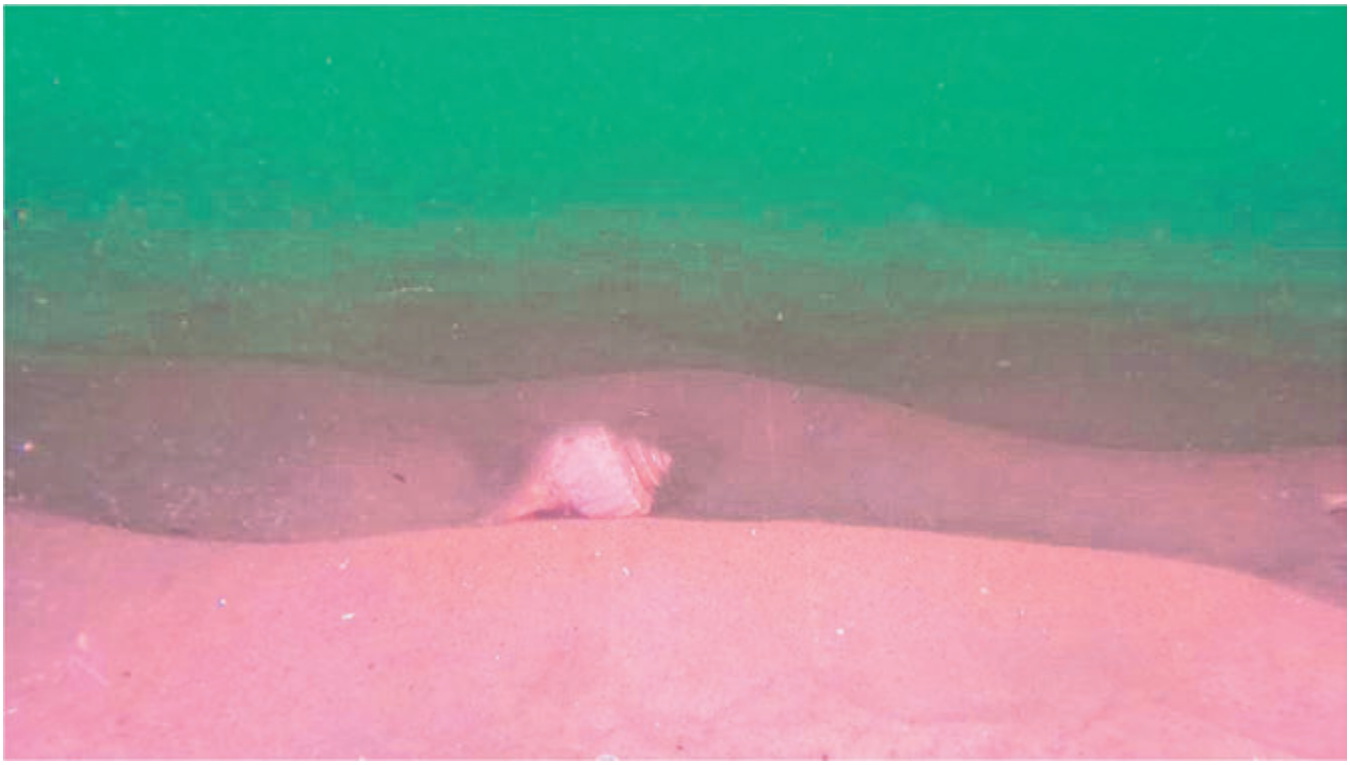
Sandy Mud
Transect 522LA22-VT014-3



Appendix G-2: Underwater Video Representative Images: MA OECC

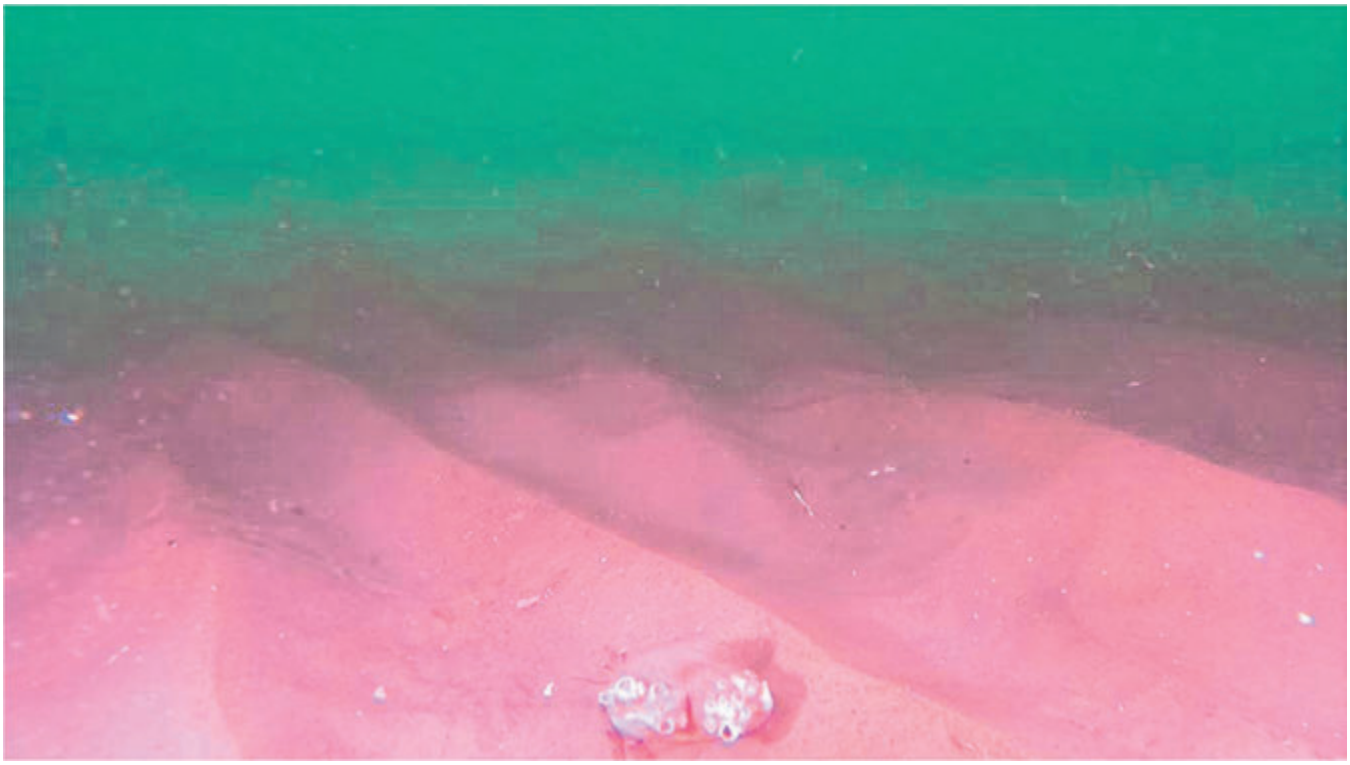
REPRESENTATIVE IMAGE

Sand - Fine/Very Fine Sand
Transect 522MA22-VT002-1



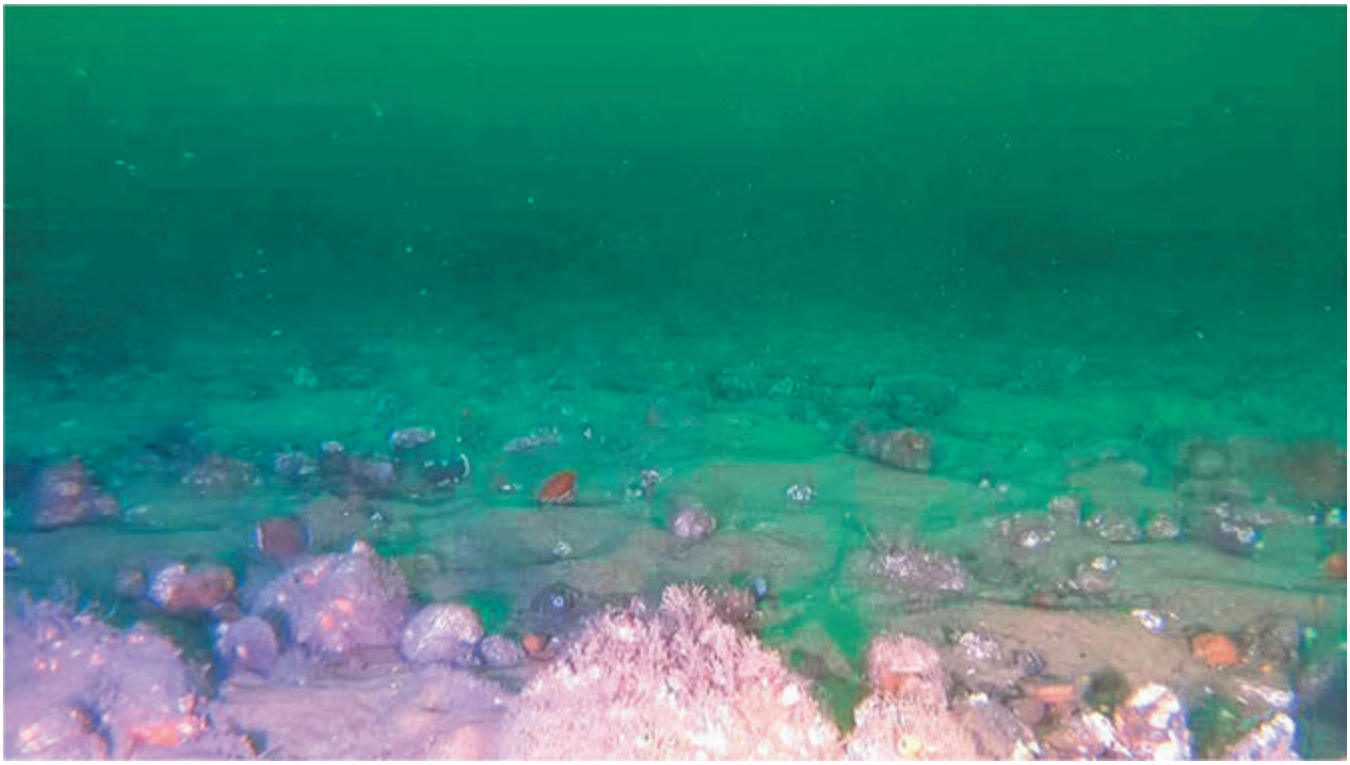
REPRESENTATIVE IMAGE

Ripples
Transect 522MA22-VT002-1



REPRESENTATIVE IMAGE

Gravelly - Gravelly Sand
Transect 522MA22-VT021-2

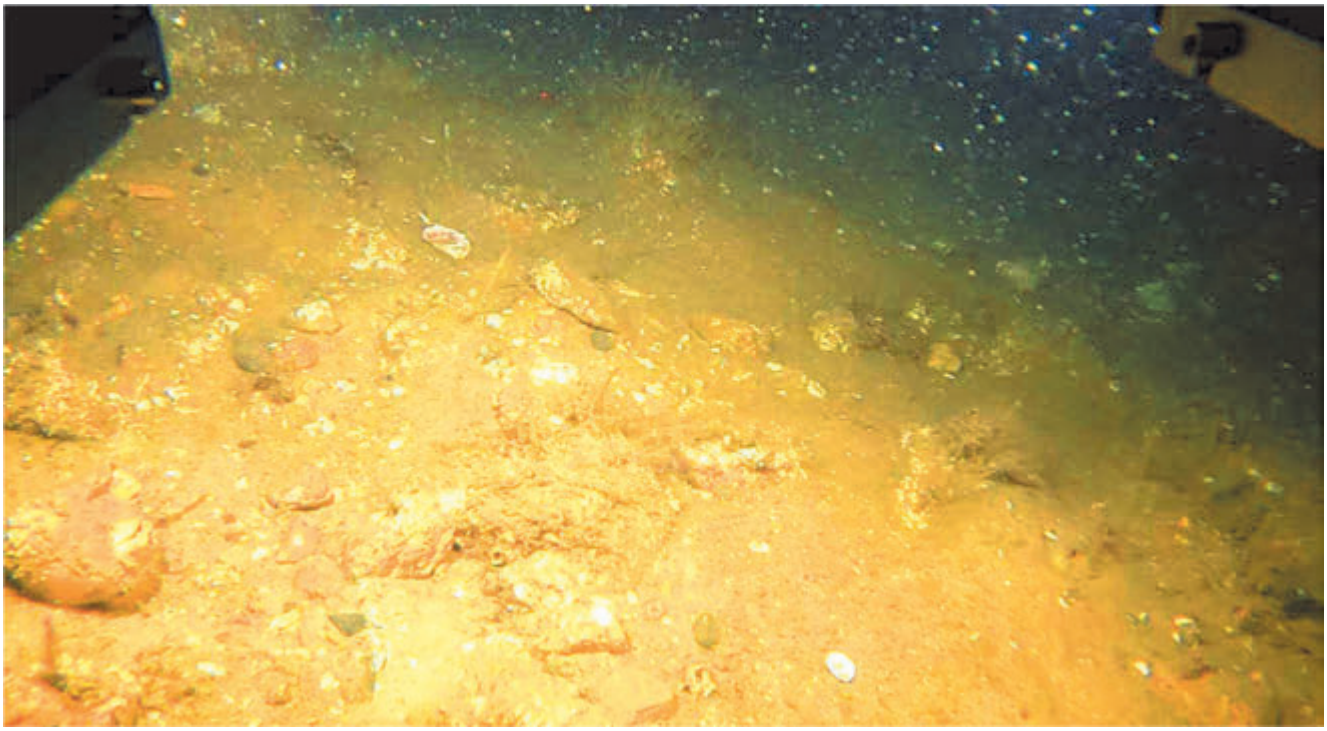


REPRESENTATIVE IMAGE

Gravel Mixes - Sandy Gravel
Transect 522MA22-VT023-1

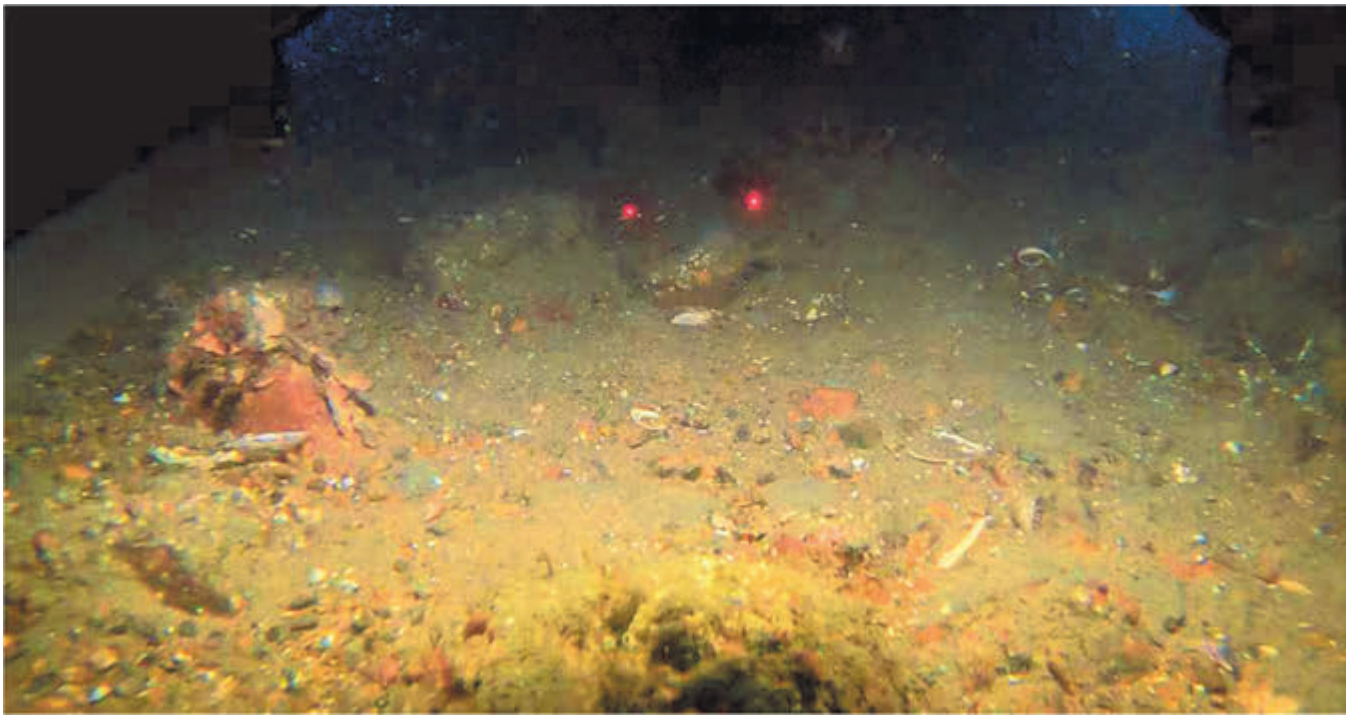
REPRESENTATIVE IMAGE

Gravelly - Gravelly Muddy Sand
Transect 522MA22-VT051-1



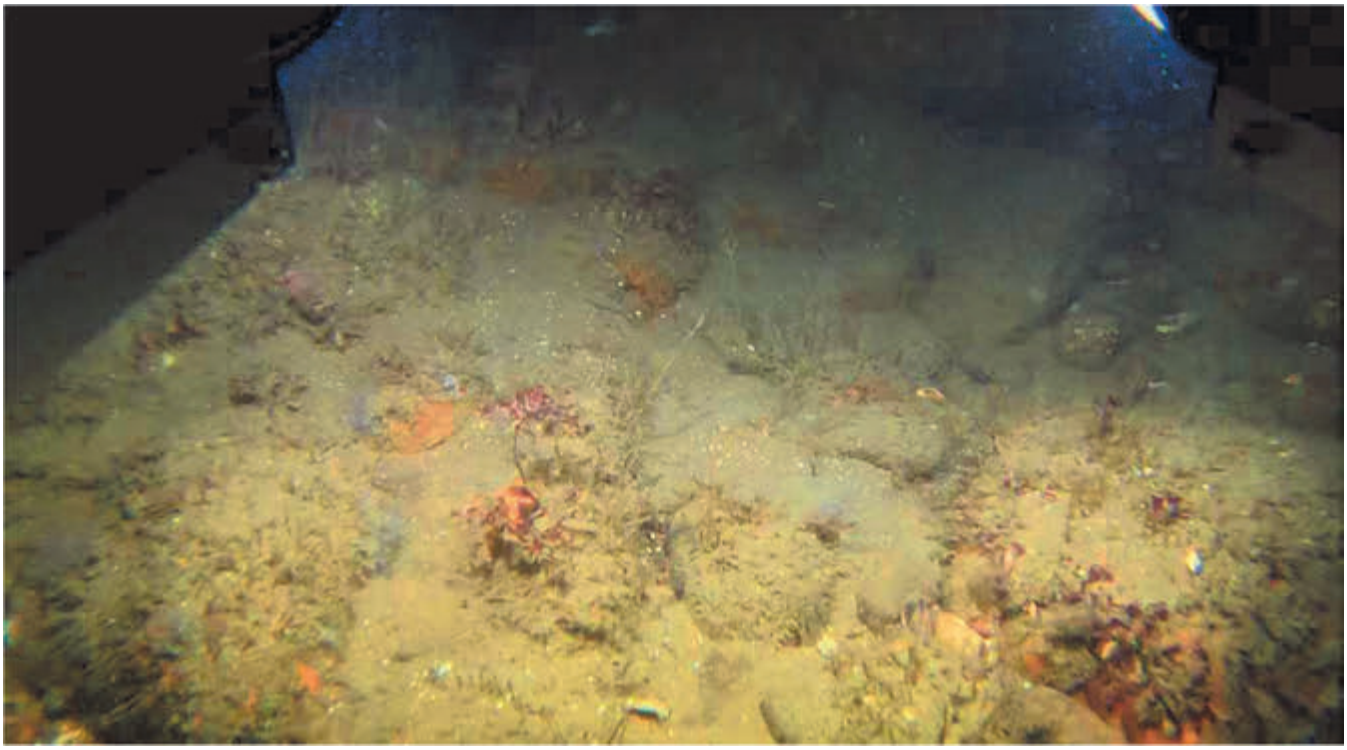
REPRESENTATIVE IMAGE

Gravel Mixes - Muddy Gravel
Transect 522MA22-VT056-1



REPRESENTATIVE IMAGE

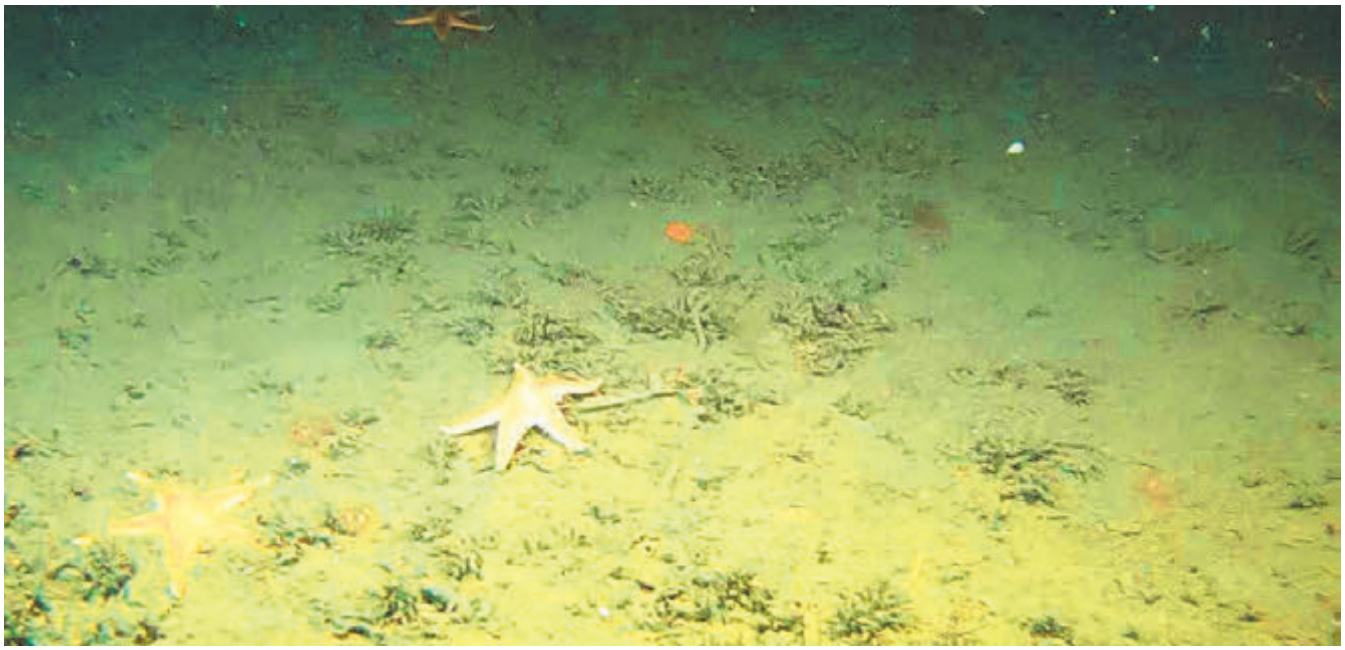
Gravelly - Gravelly Mud
Transect 522MA22-VT056-1



Appendix G-3: Underwater Video Representative Images: CT OECC

REPRESENTATIVE IMAGE

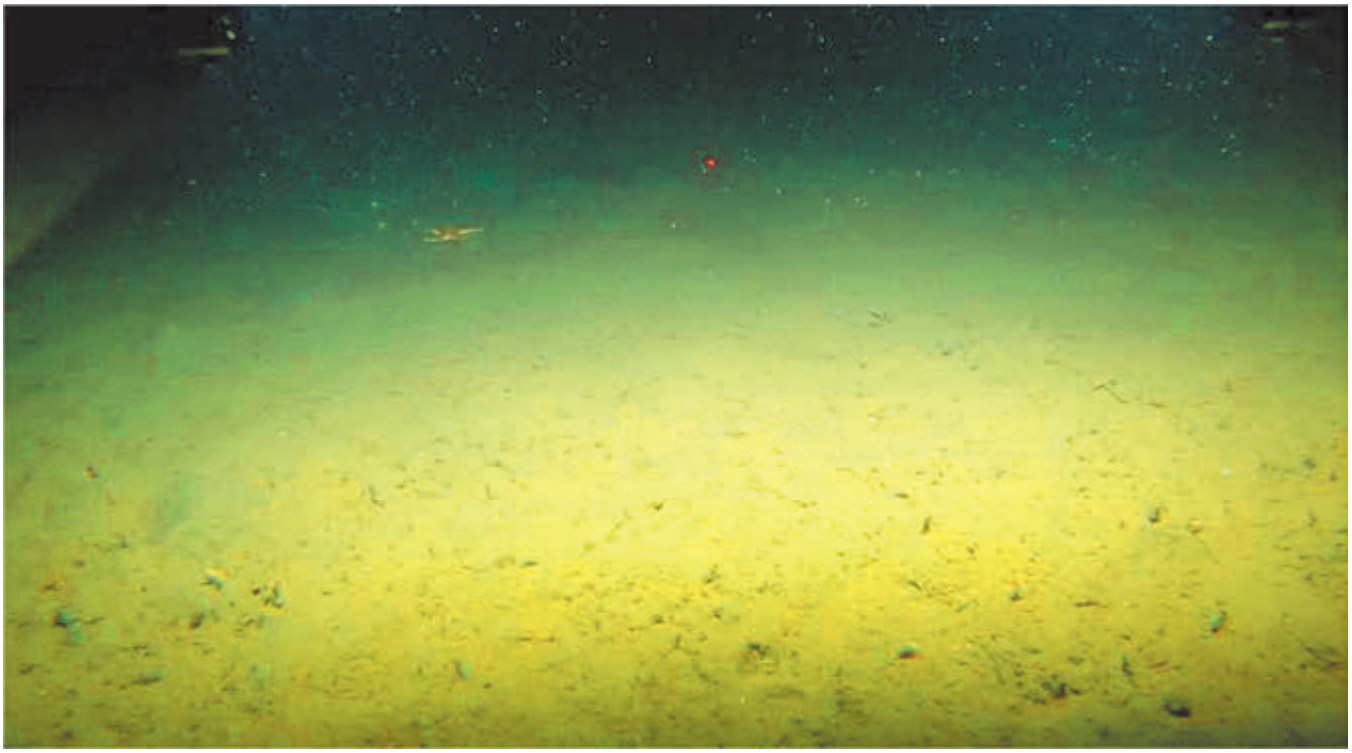
Fan Worm Field
Transect 522CT22-VT001-6



Representative Image of CMECS Type: Fan Worm Field

REPRESENTATIVE IMAGE

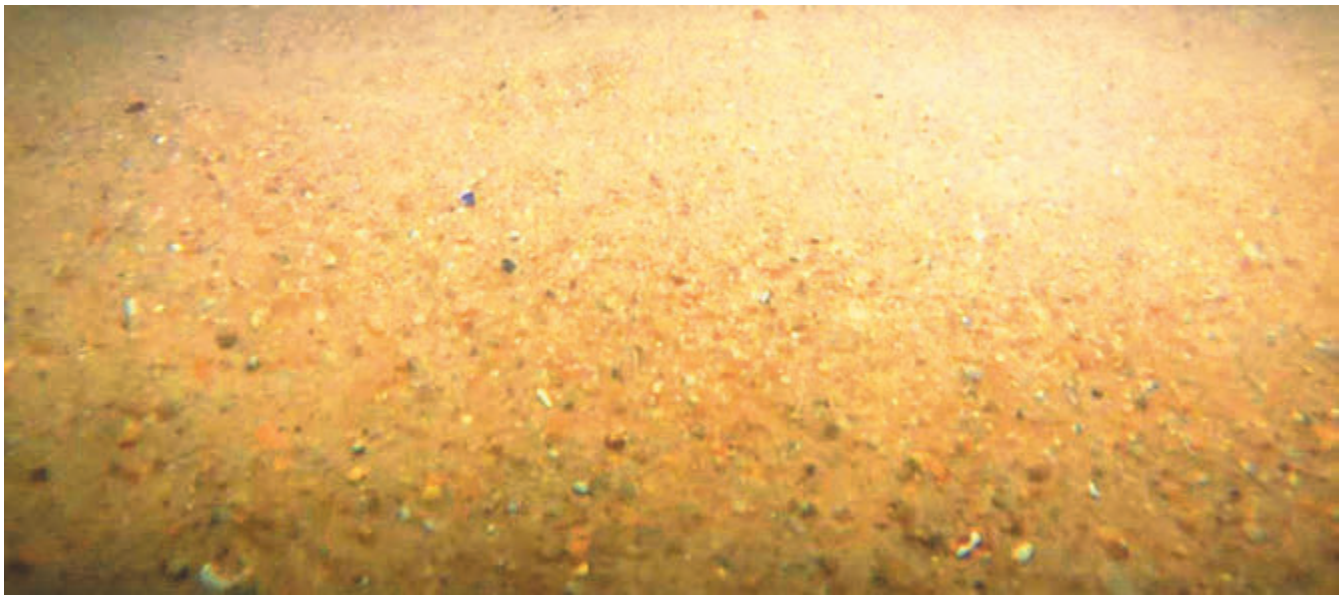
Muddy Sand
Transect 522CT22-VT006-1



Representative Image of CMECS Type: Muddy Sand

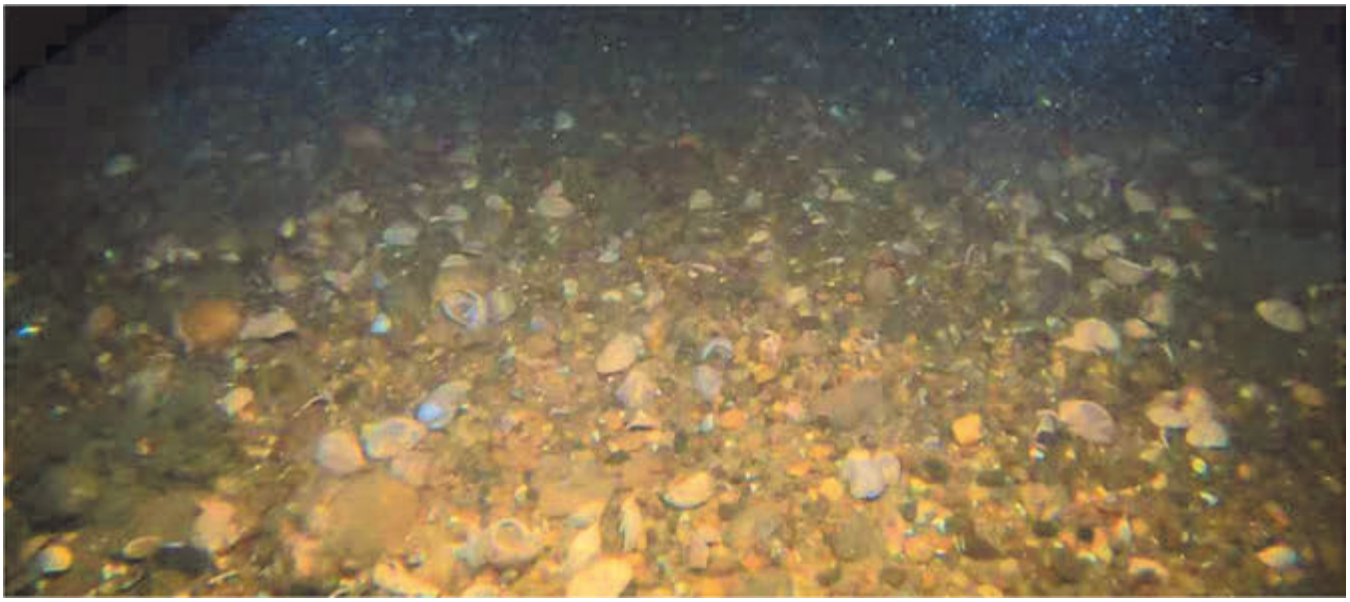
REPRESENTATIVE IMAGE

Sand - Very Coarse/Coarse Sand
Transect 522CT22-VT032-1



REPRESENTATIVE IMAGE

Gravel - Gravel Pavement
Transect 522CT22-VT035-4

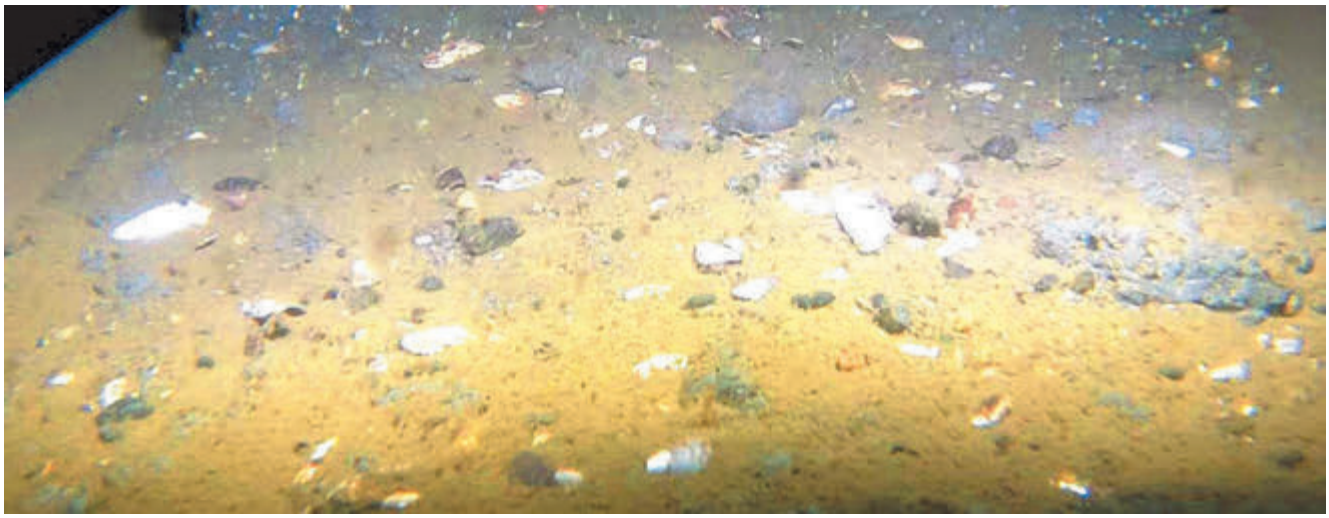


REPRESENTATIVE IMAGE

Gravel - Pebble/Granule
Transect 522CT22-VT035-4

REPRESENTATIVE IMAGE

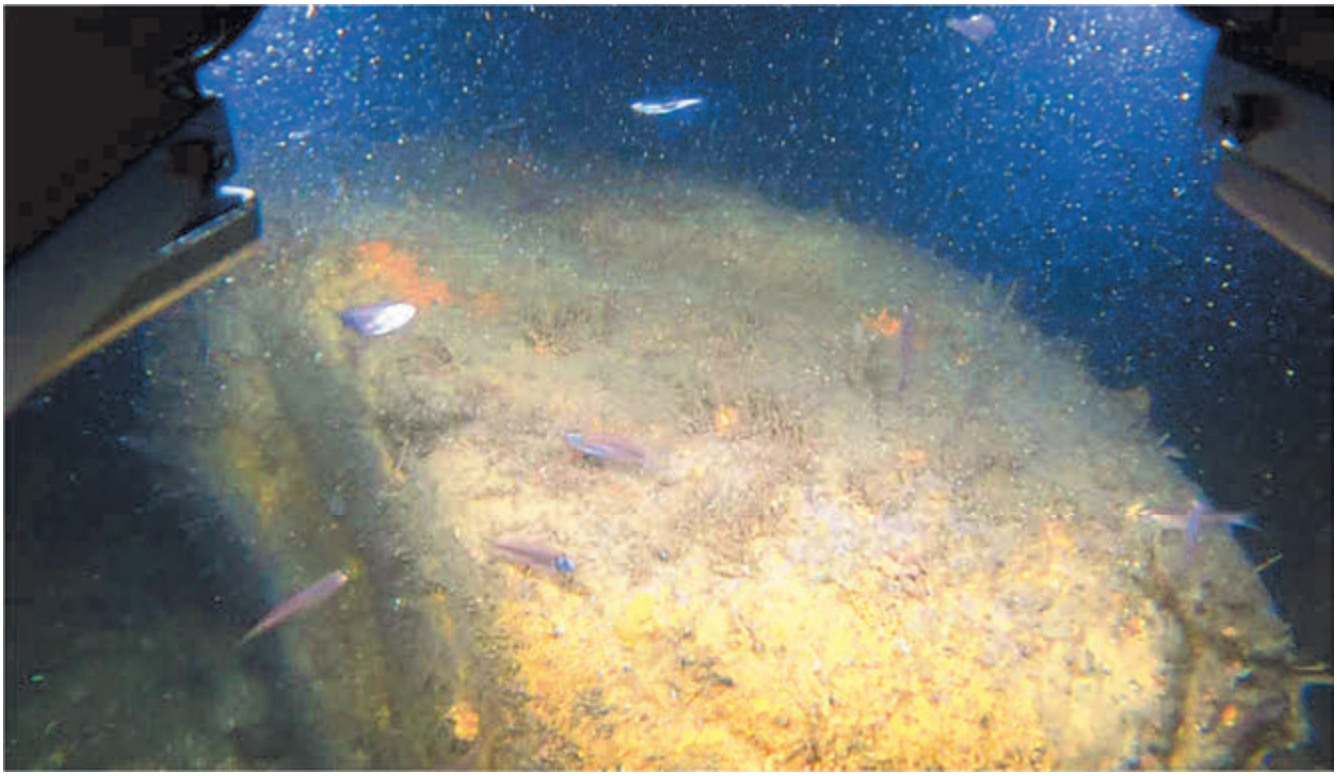
Rock - Bedrock
Transect 522CT22-VT045-5



Representative Image of CMECS Type: Rock - Bedrock

REPRESENTATIVE IMAGE

Gravel - Boulder
Transect 522CT22-VT050-1



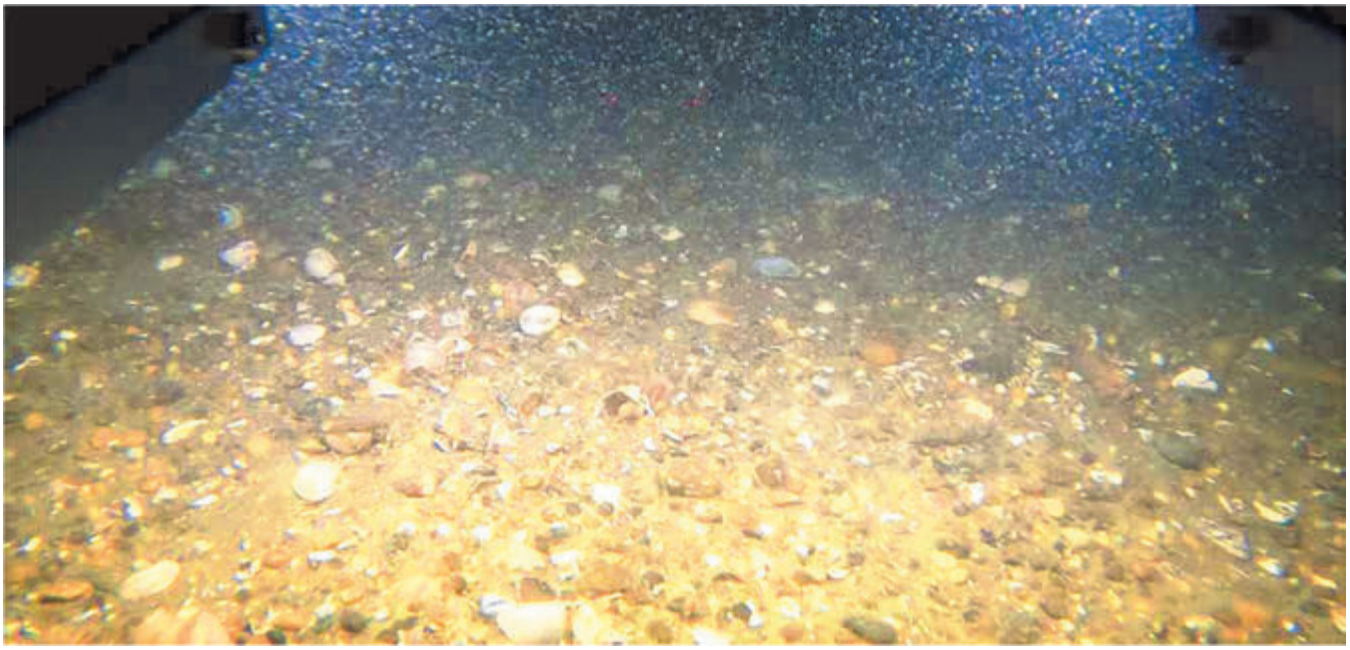
Representative Image of CMECS Type: Gravel - Boulder

REPRESENTATIVE IMAGE

Gravel - Cobble
Transect 522CT22-VT055-1

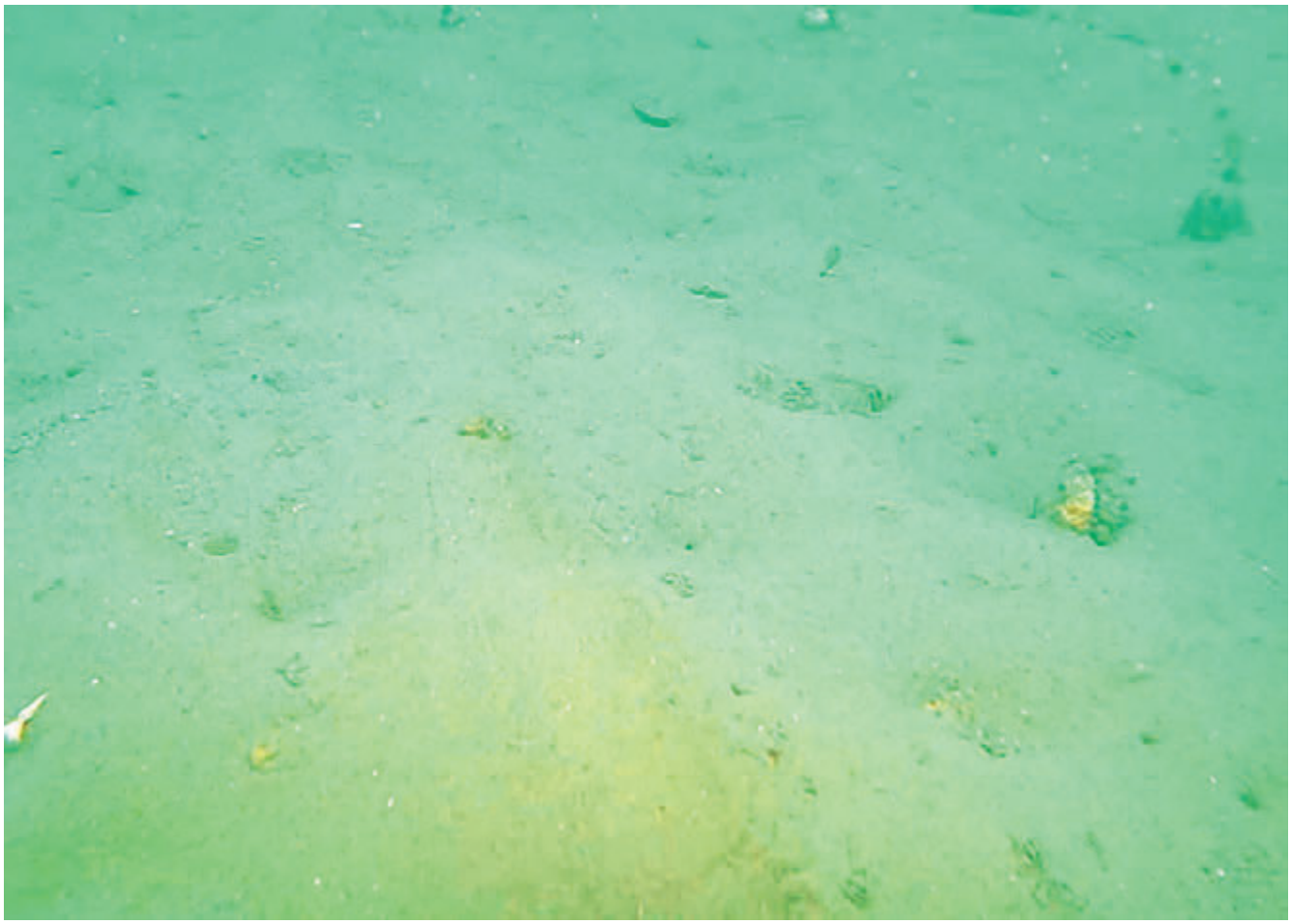
REPRESENTATIVE IMAGE

Gravel Mixes - Muddy Sandy Gravel
Transect 522CT22-VT055-1



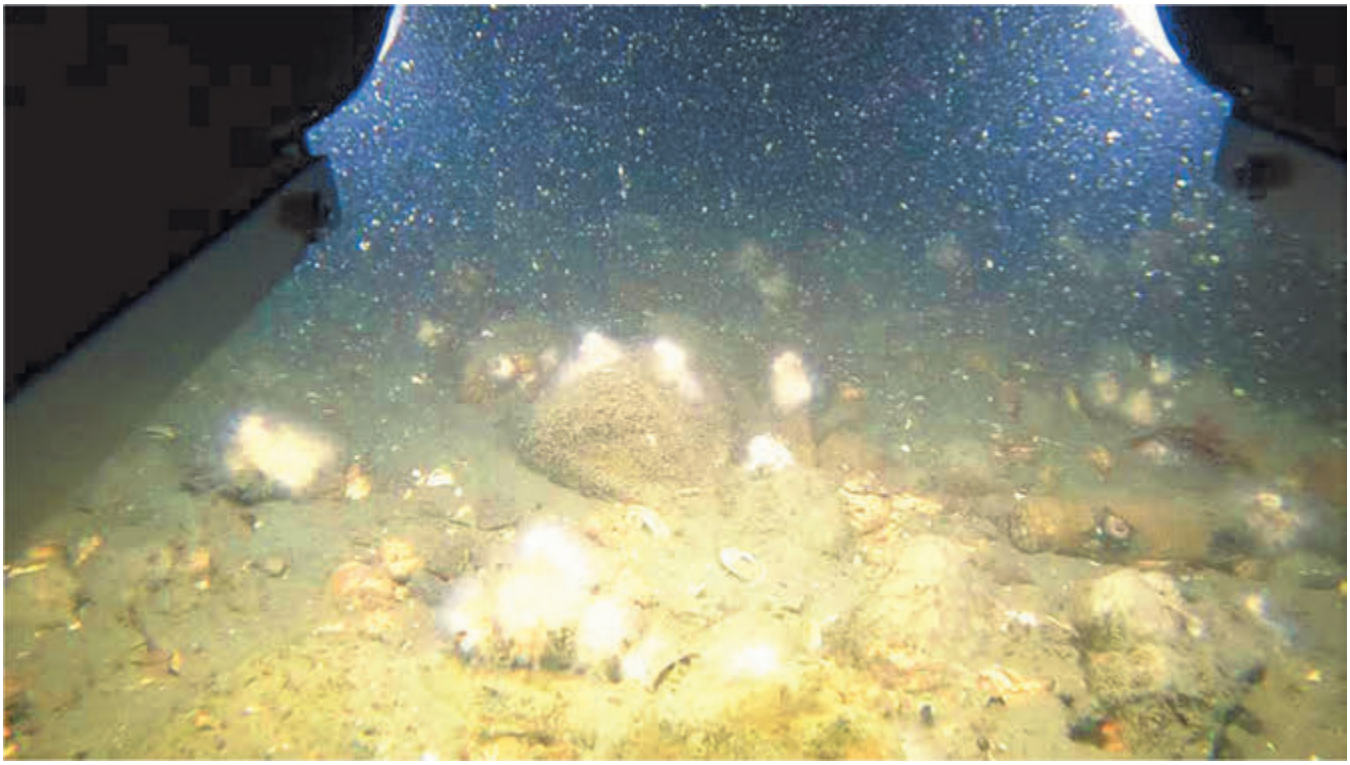
REPRESENTATIVE IMAGE

Sand - Medium Sand
Transect 522CT22-VT077-1



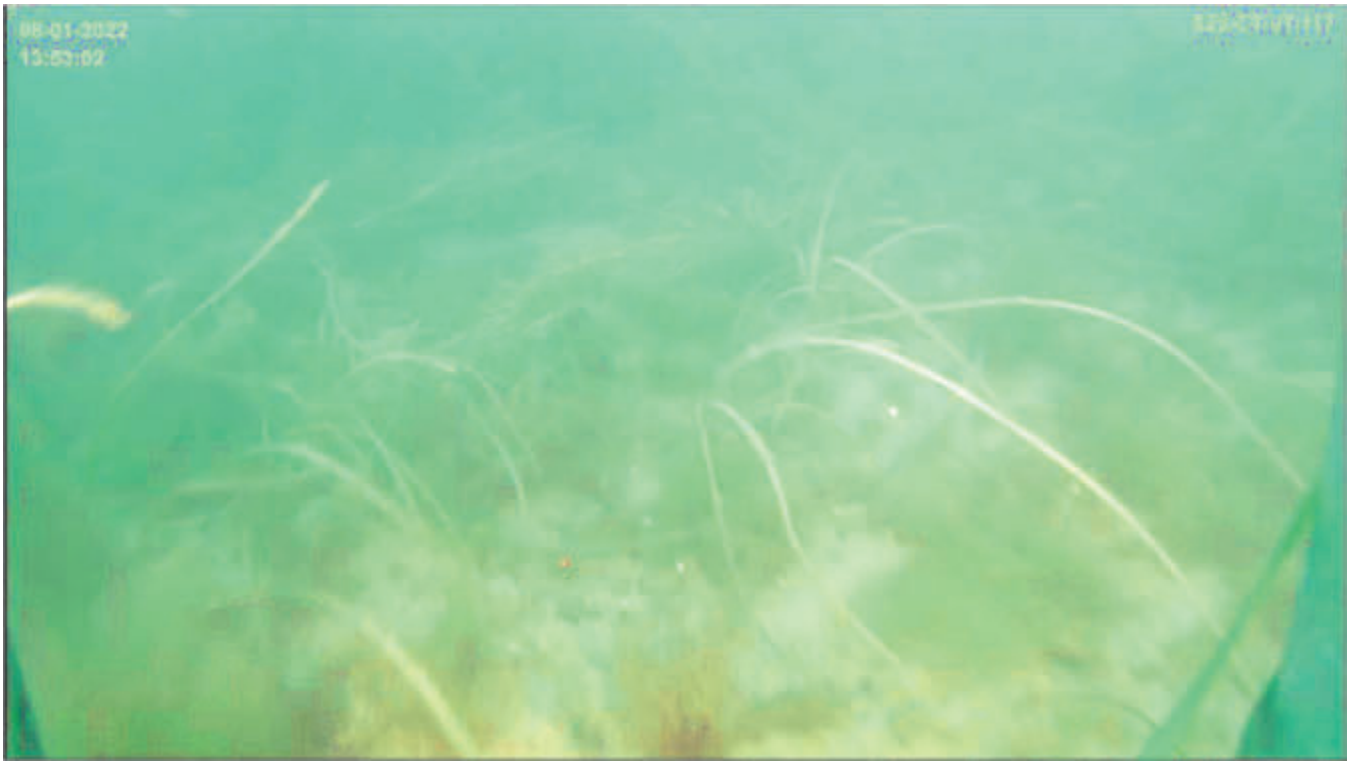
REPRESENTATIVE IMAGE

Coral
Transect 522CT22-VT105



REPRESENTATIVE IMAGE

Eelgrass
Transect 522CT22-VT117-1



Appendix H-1: Benthic Grab Representative Deck Images: 522 Lease Area

PHOTO INFORMATION

Sample ID 522MA22-GB001-1

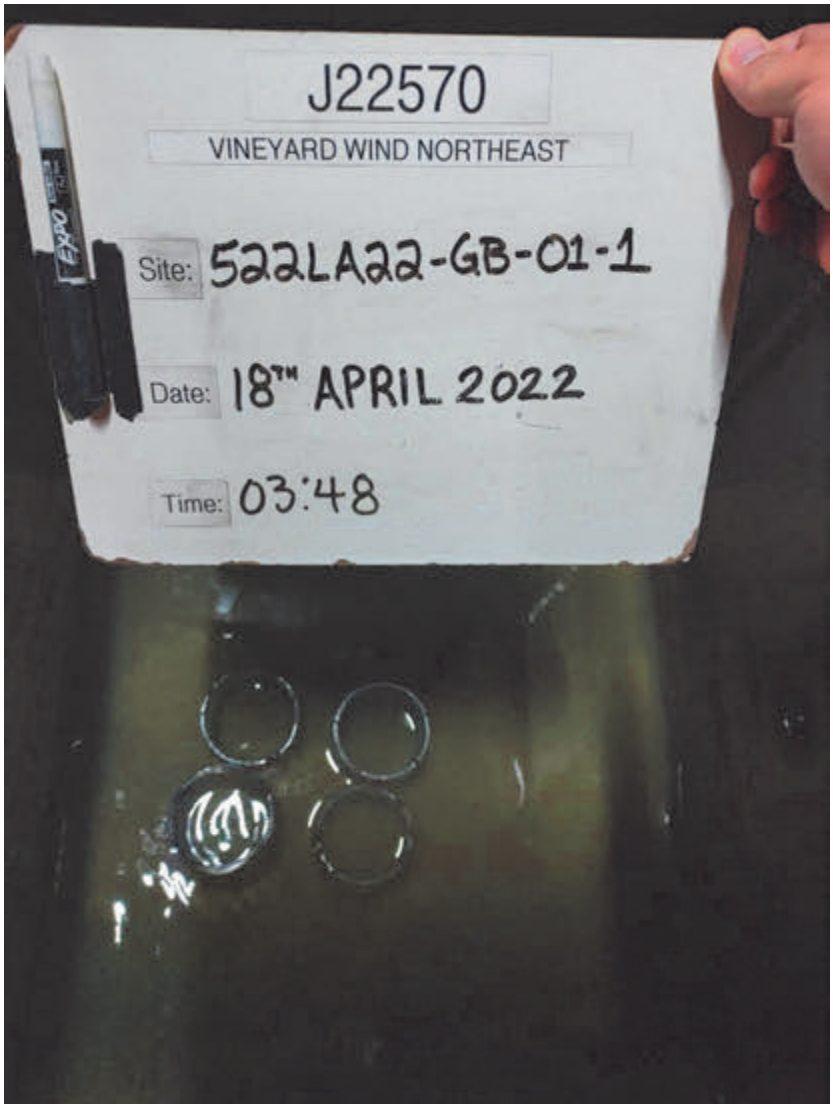


PHOTO INFORMATION

Sample ID 522MA22-GB002B-1

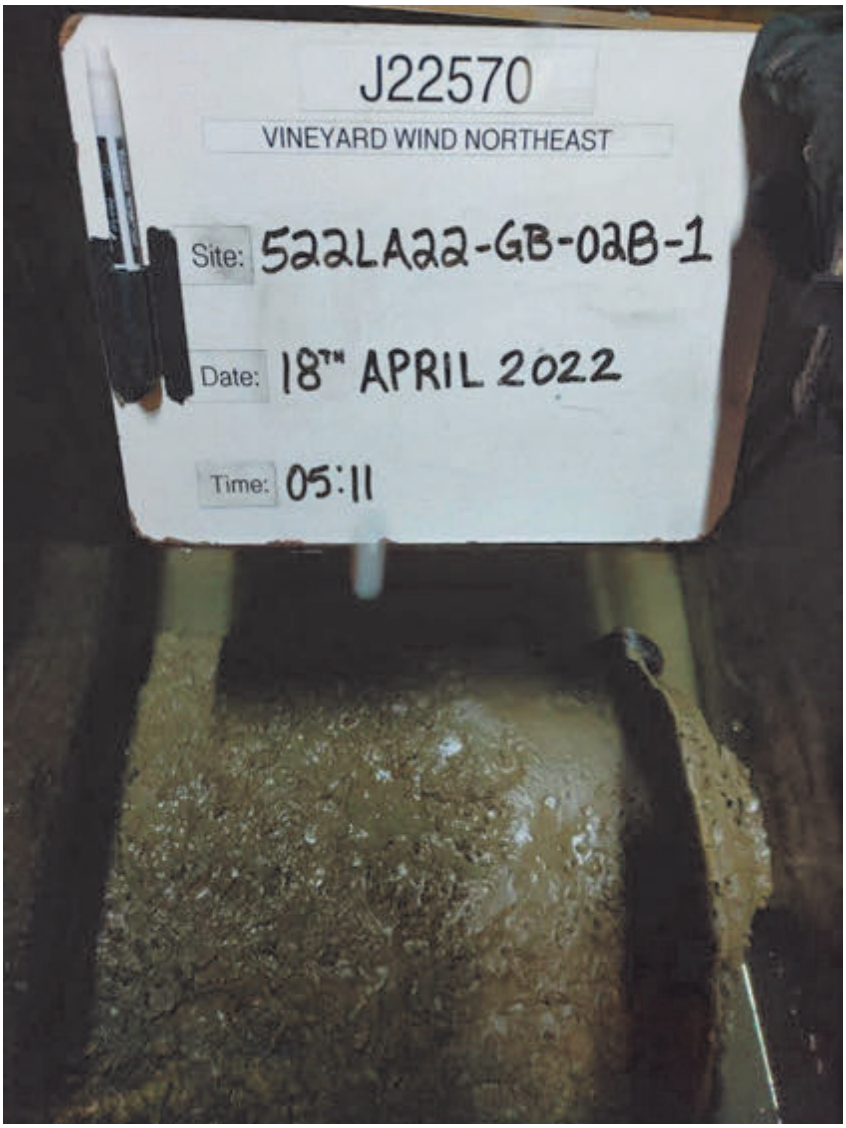


PHOTO INFORMATION

Sample ID 522LA22-GB002C-1

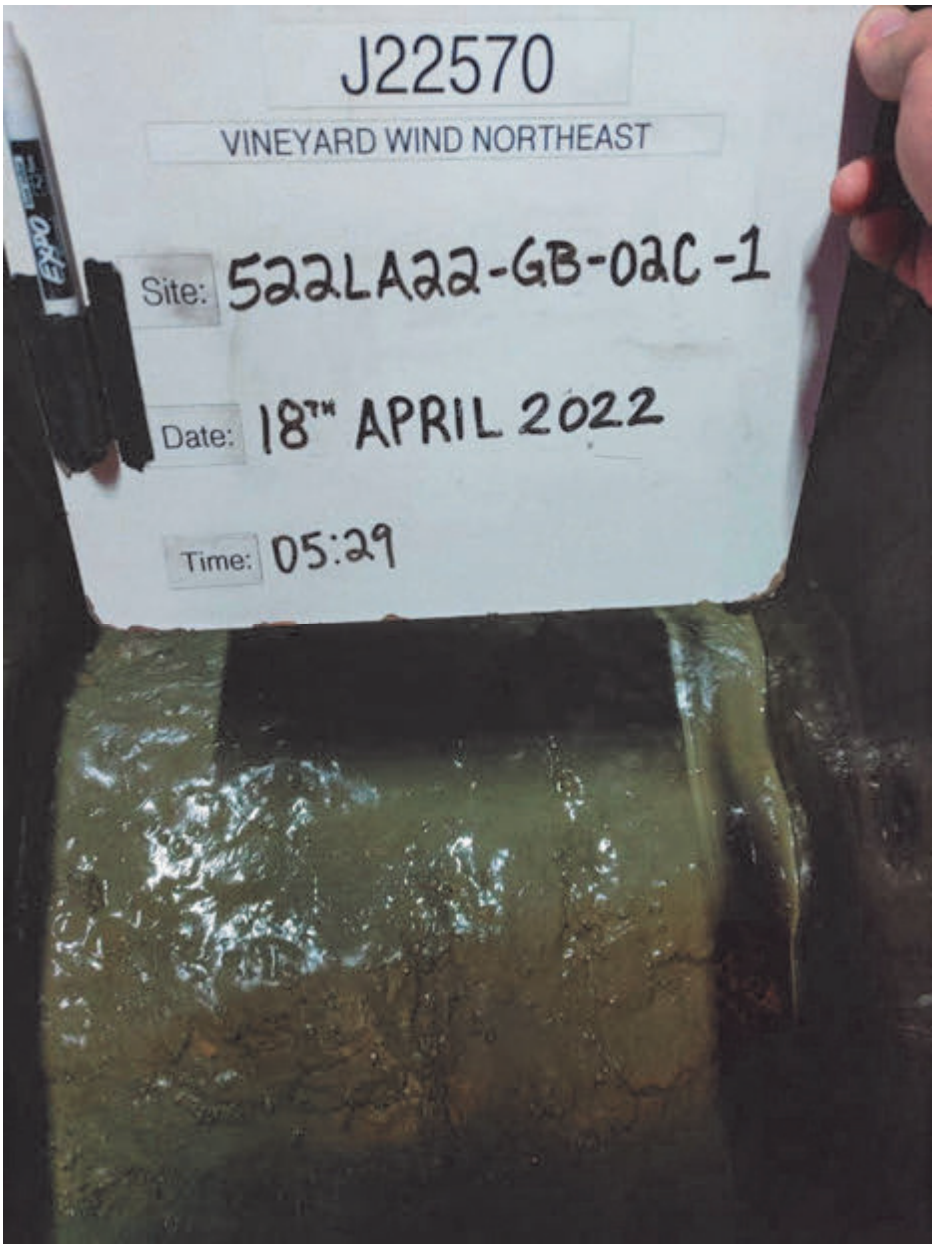


PHOTO INFORMATION

Sample ID 522LA22-GB003-1

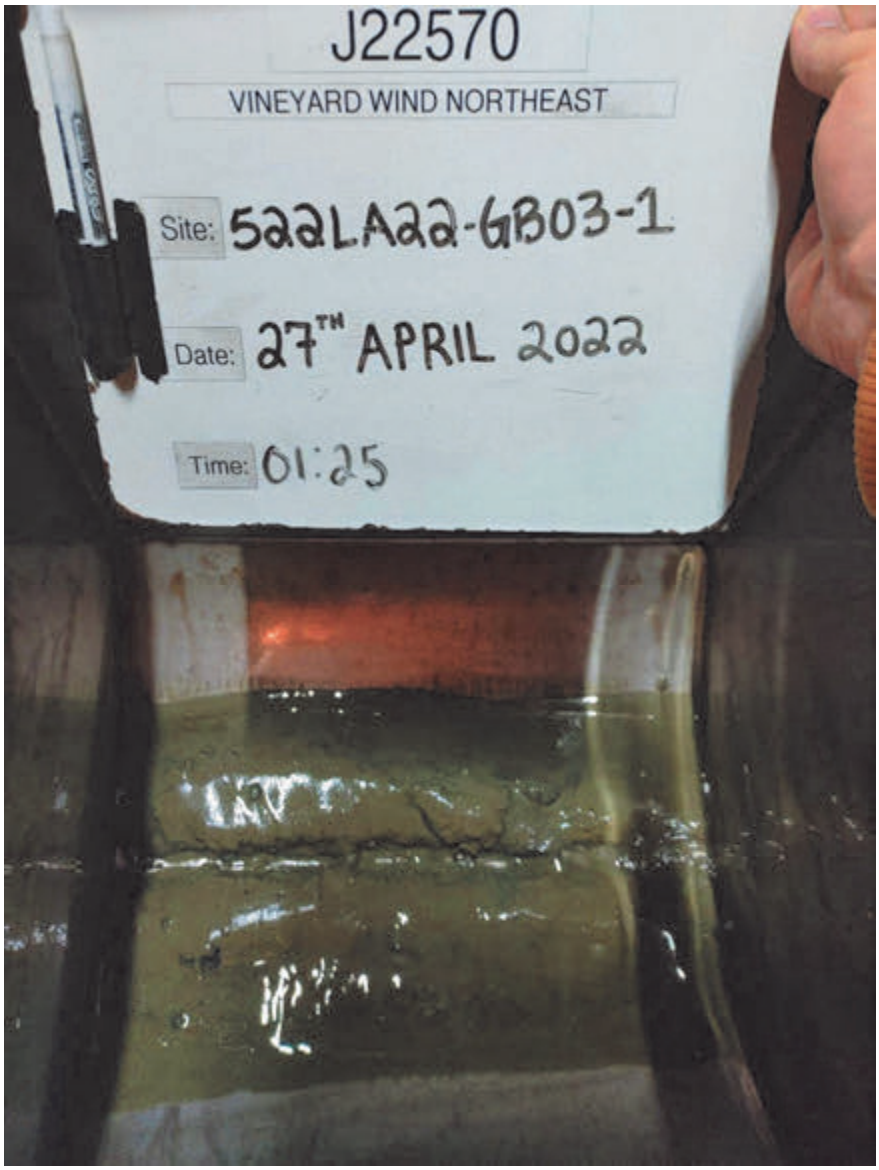


PHOTO INFORMATION

Sample ID 522LA22-GB003-2

PHOTO INFORMATION

Sample ID 522LA22-GB004-1

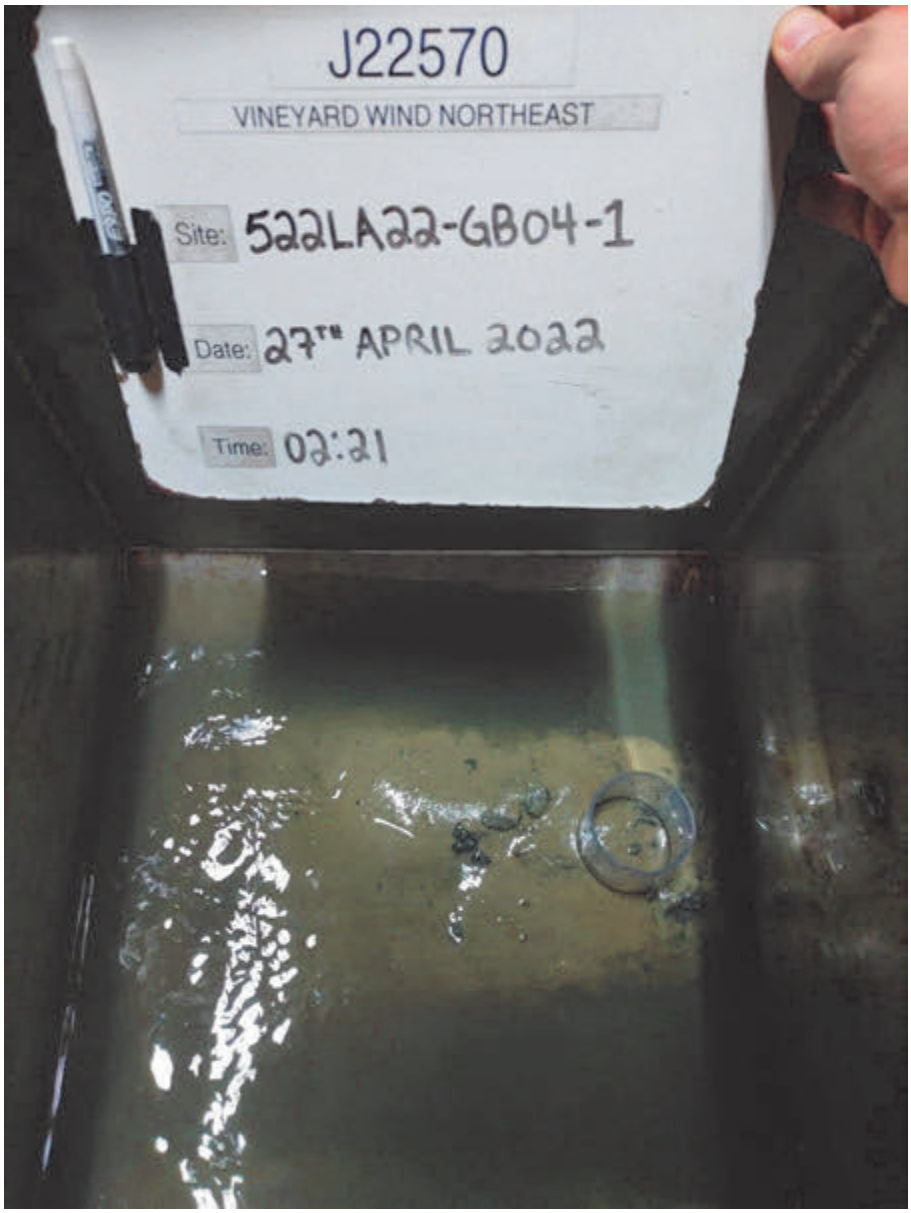


PHOTO INFORMATION

Sample ID 522LA22-GB005-1

PHOTO INFORMATION

Sample ID 522LA22-GB005-2

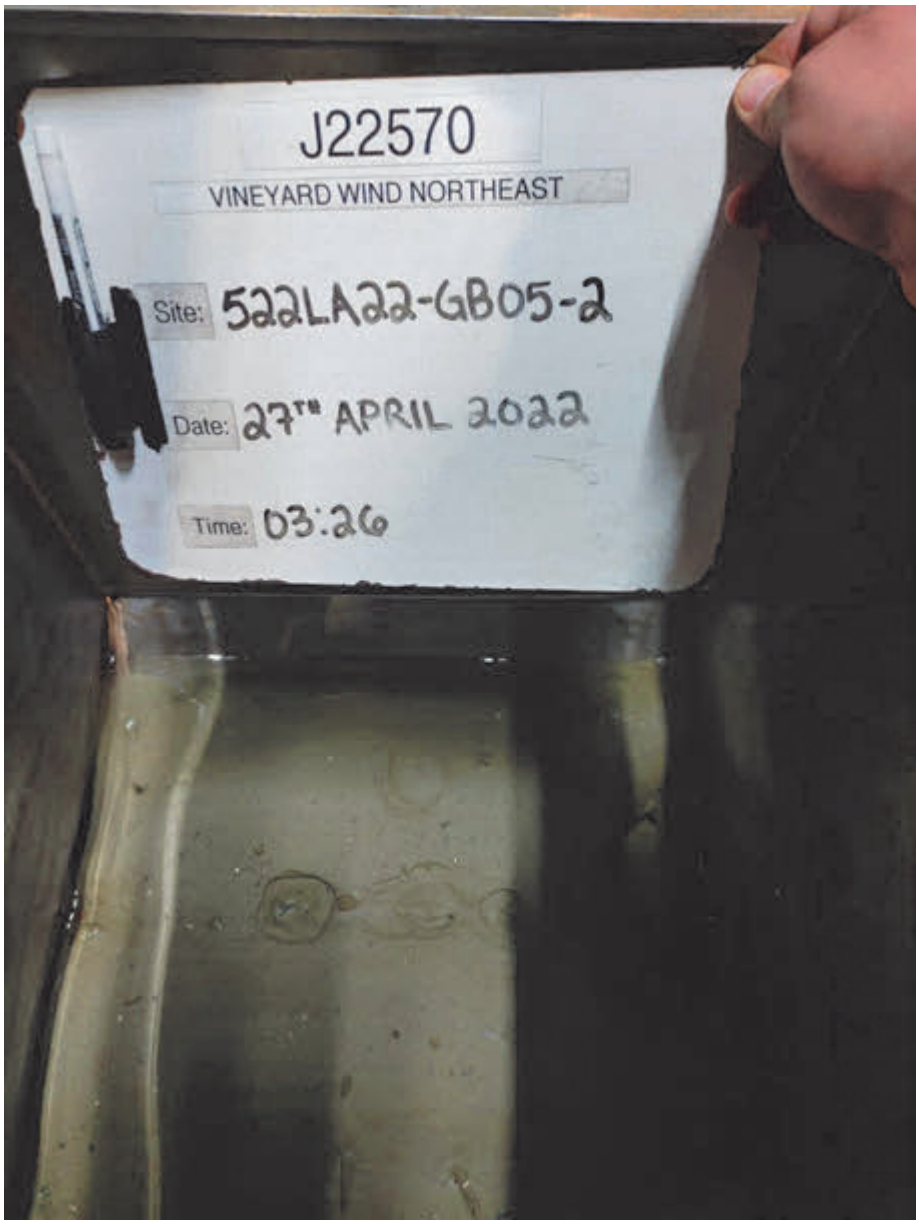


PHOTO INFORMATION

Sample ID 522LA22-GB006-1

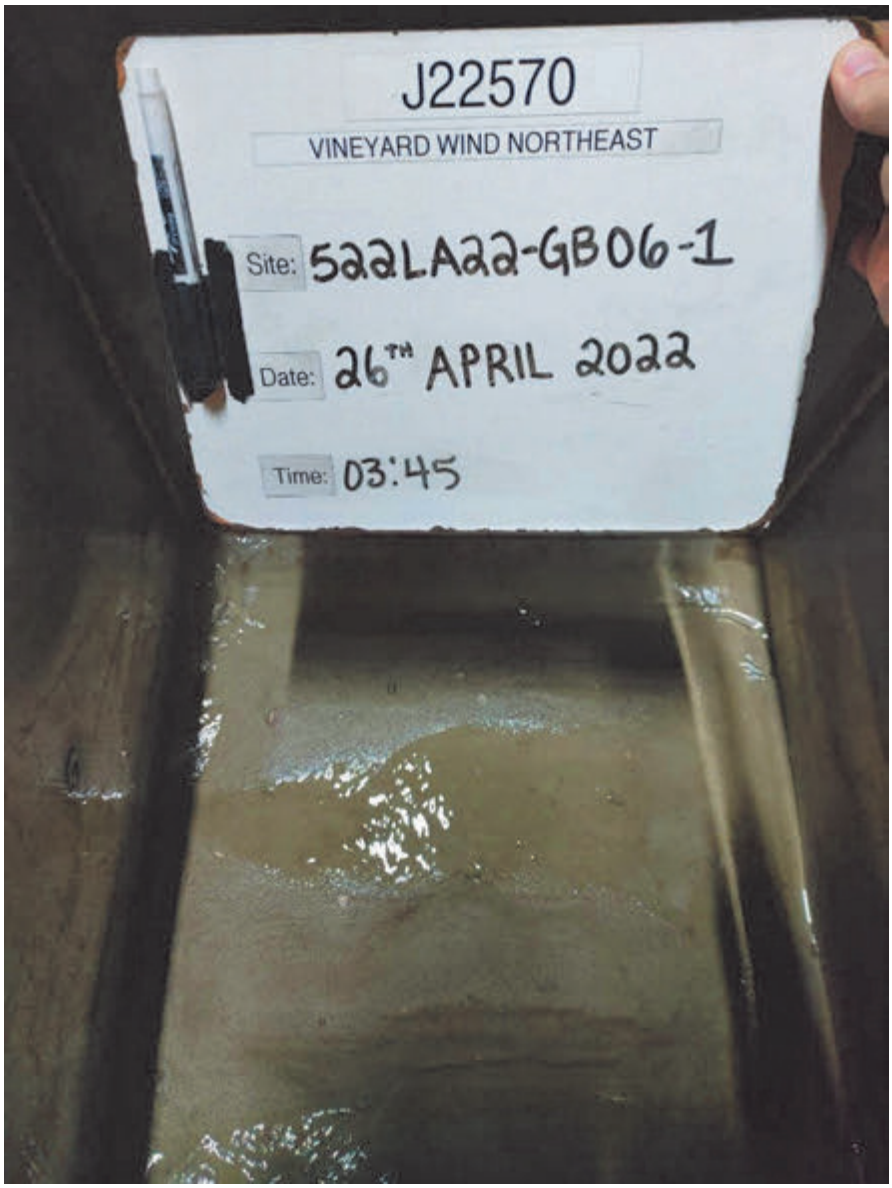


PHOTO INFORMATION

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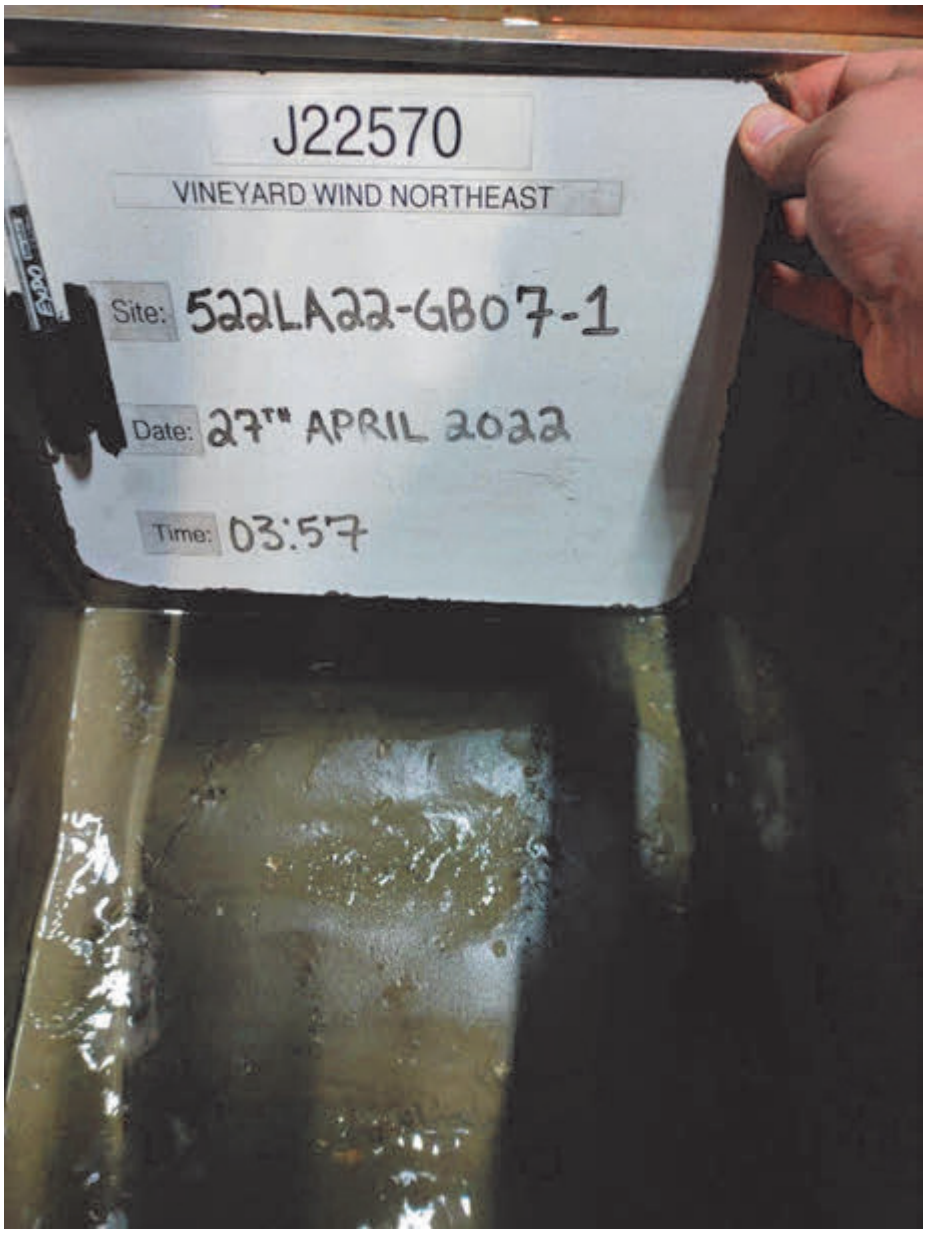

PHOTO INFORMATION

Sample ID 522LA22-GB008A-2

PHOTO INFORMATION

Sample ID 522LA22-GB008B-1

PHOTO INFORMATION

Sample ID 522LA22-GB008C-1

PHOTO INFORMATION

Sample ID 522LA22-GB009-1

PHOTO INFORMATION

Sample ID 522LA22-GB010-1

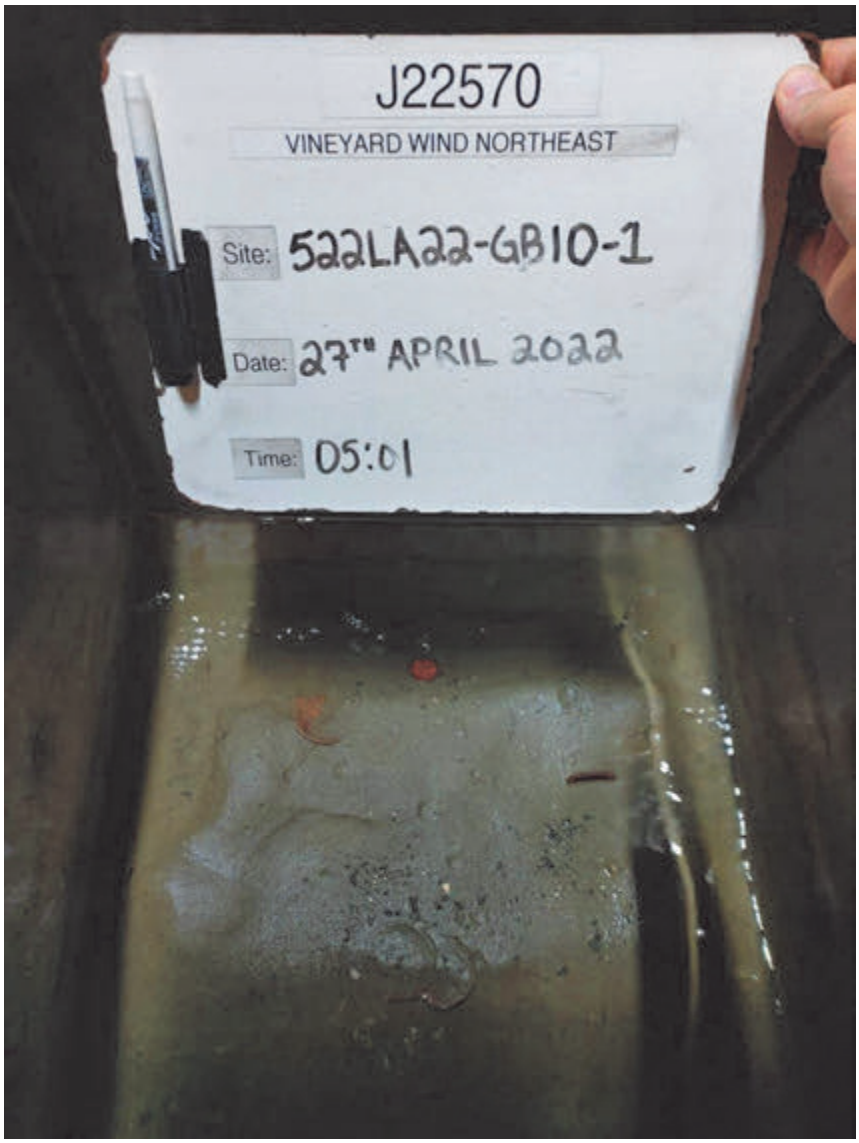

PHOTO INFORMATION

Sample ID 522LA22-GB011-1

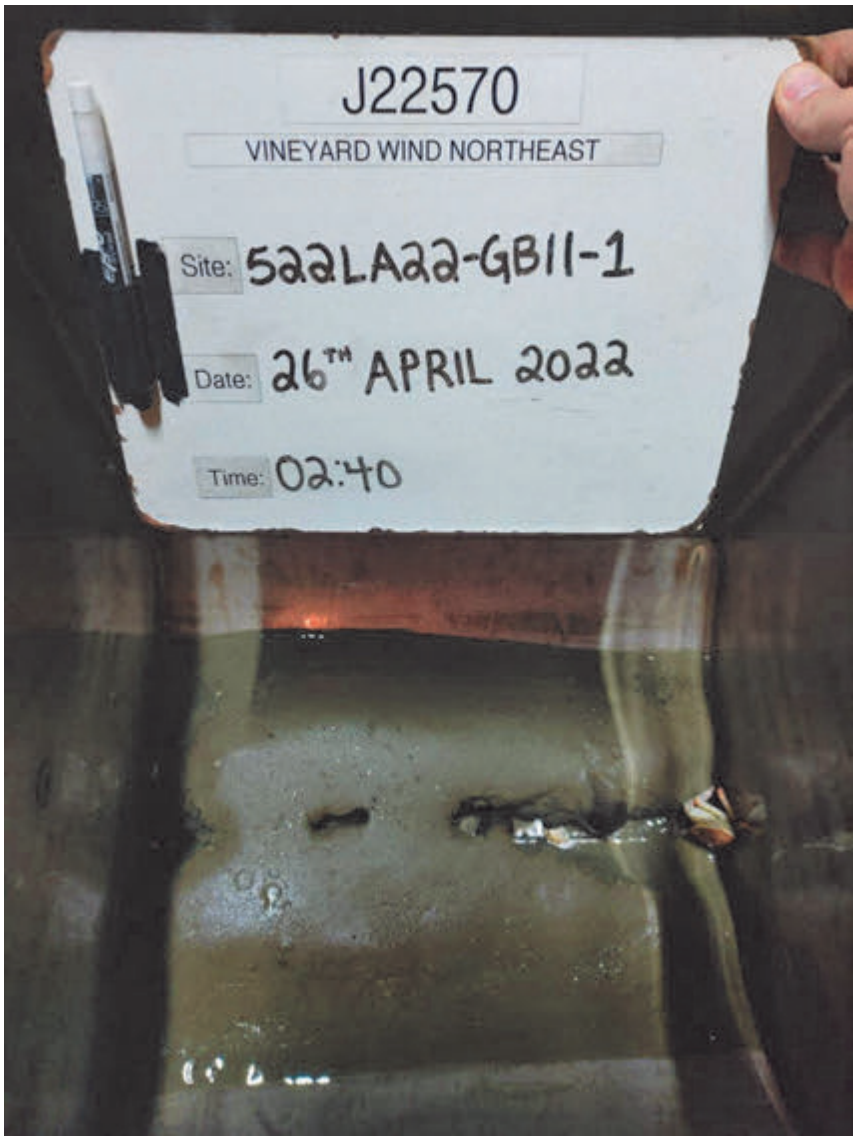

PHOTO INFORMATION

Sample ID 522LA22-GB011-2

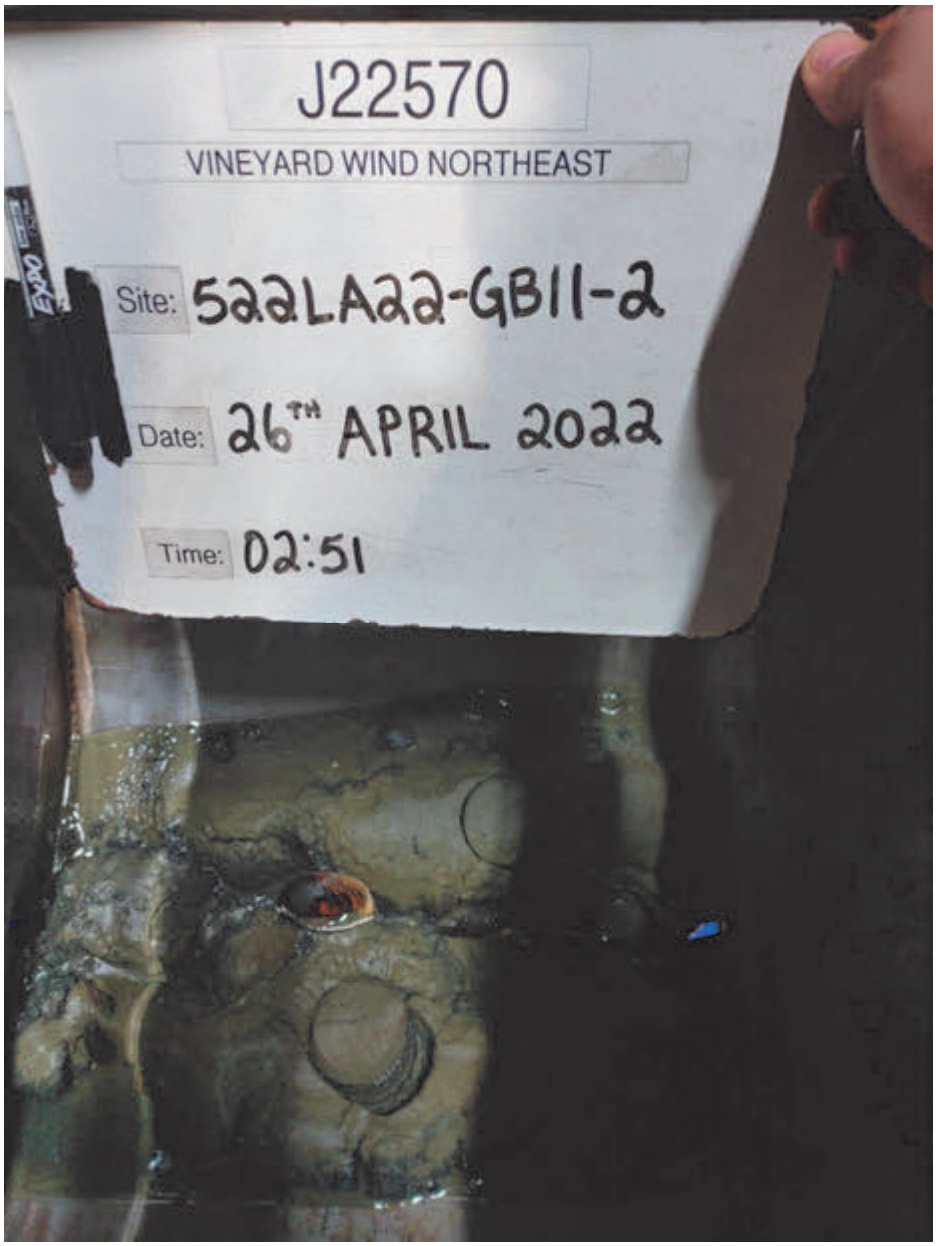

PHOTO INFORMATION

Sample ID 522LA22-GB011-3

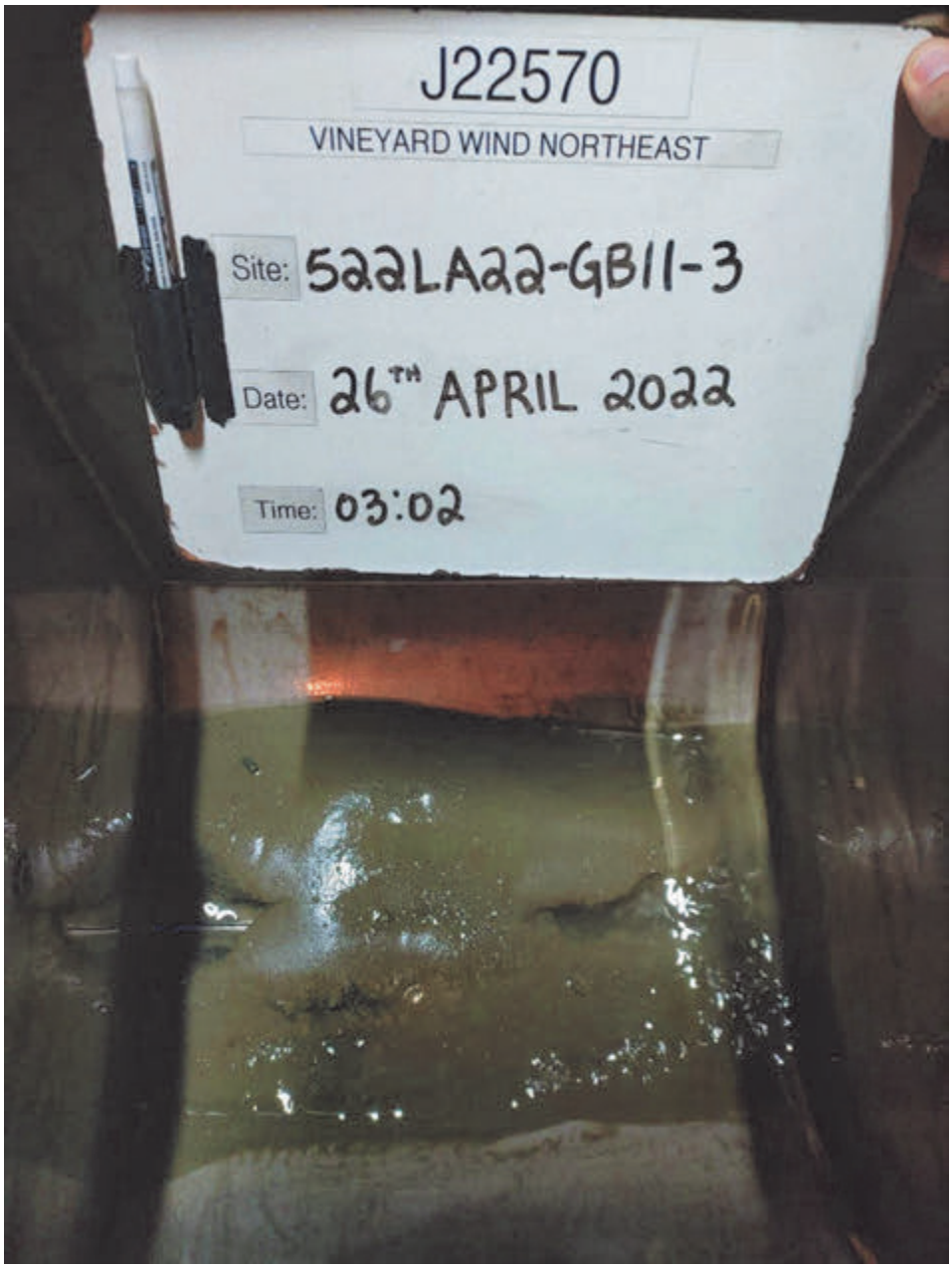

PHOTO INFORMATION

Sample ID 522LA22-GB012-1

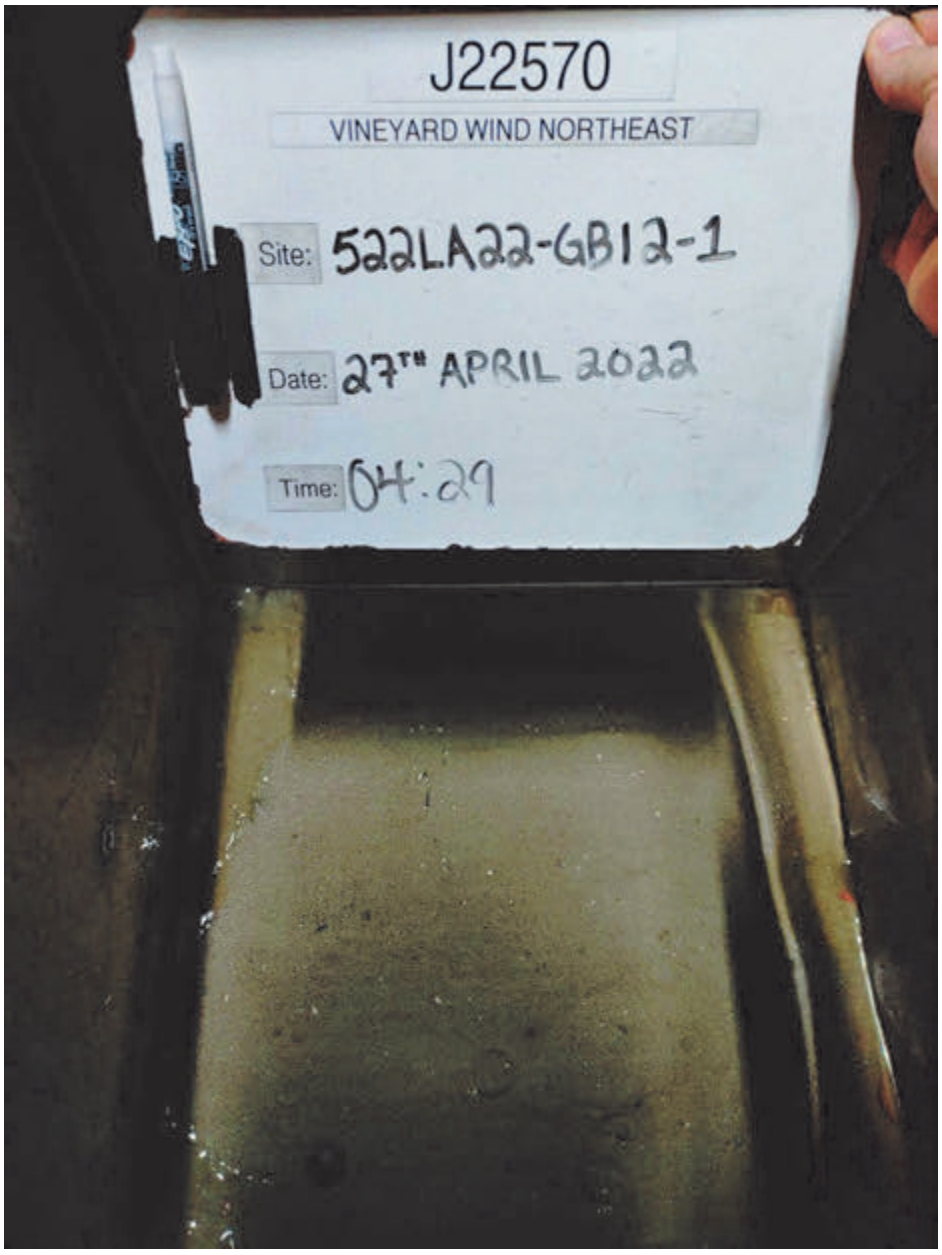

PHOTO INFORMATION

Sample ID 522LA22-GB013A-1

PHOTO INFORMATION

Sample ID 522LA22-GB013B-1

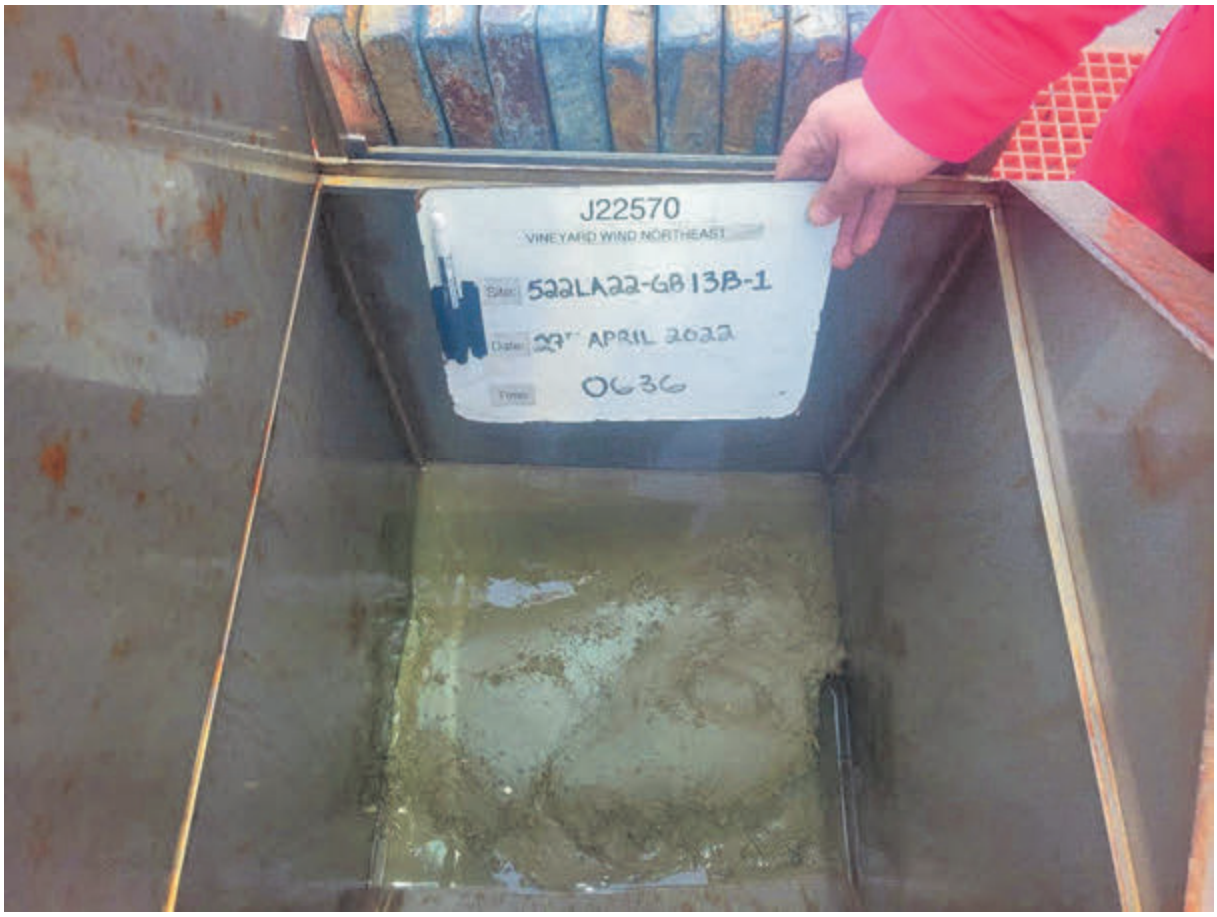

PHOTO INFORMATION

Sample ID 522LA22-GB013C-1

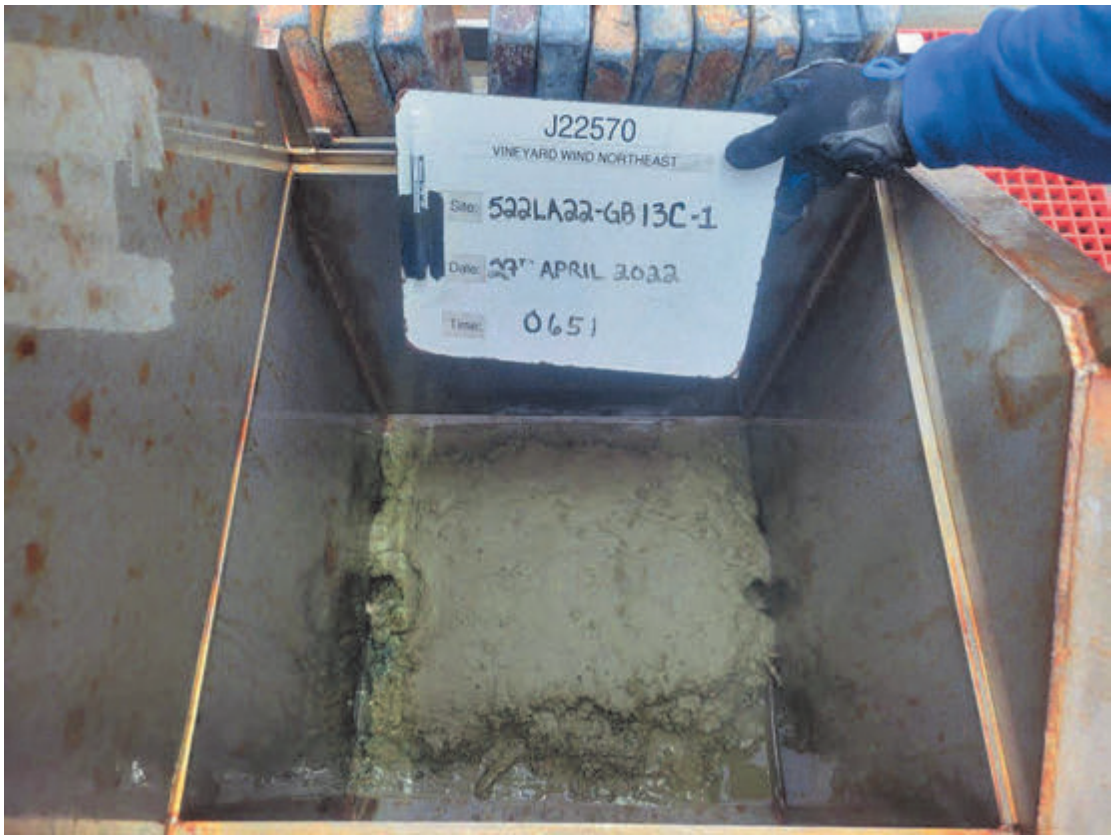

PHOTO INFORMATION

Sample ID 522LA22-GB014A-1

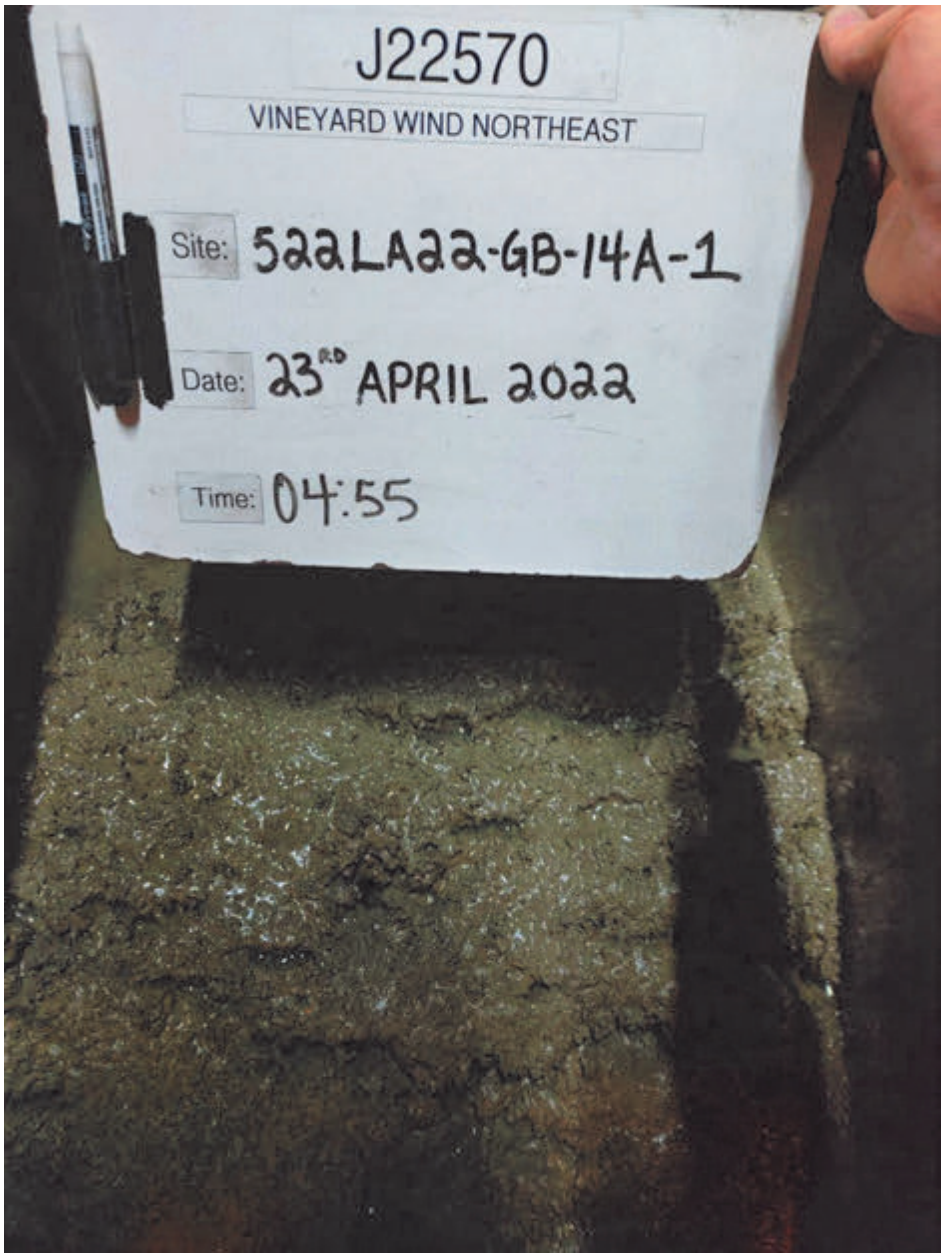

PHOTO INFORMATION

Sample ID 522LA22-GB014B-1

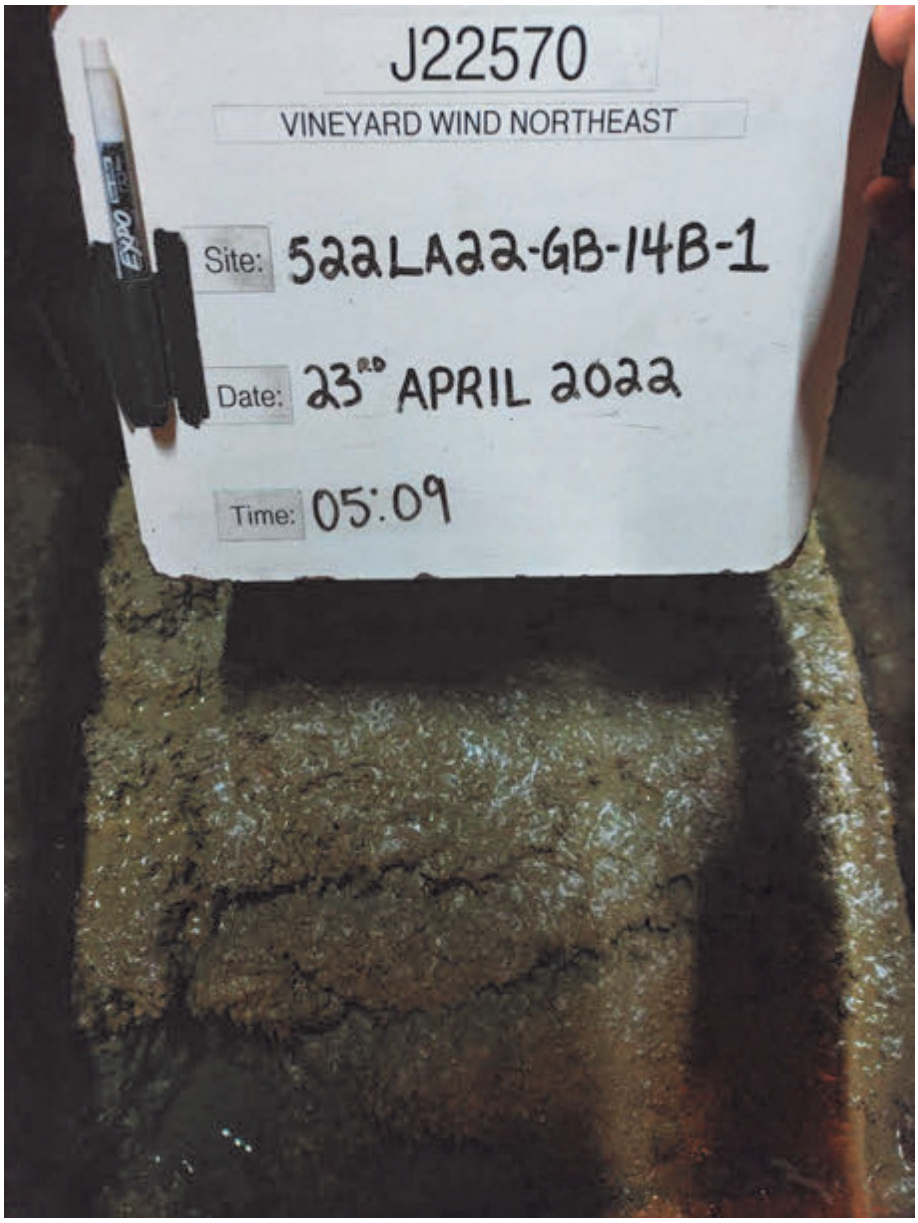

PHOTO INFORMATION

Sample ID 522LA22-GB014C-1

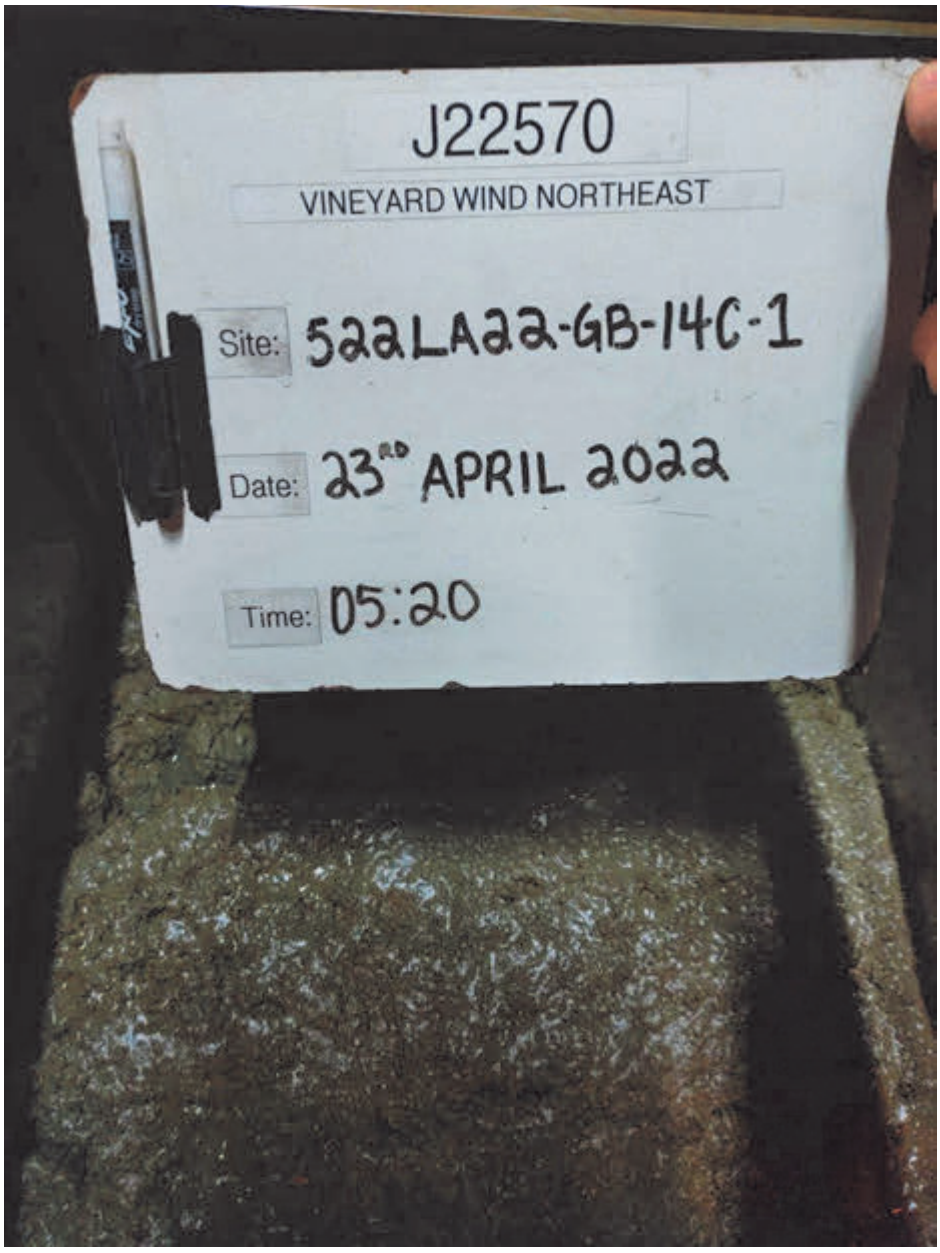

PHOTO INFORMATION

Sample ID 522LA22-GB015-1

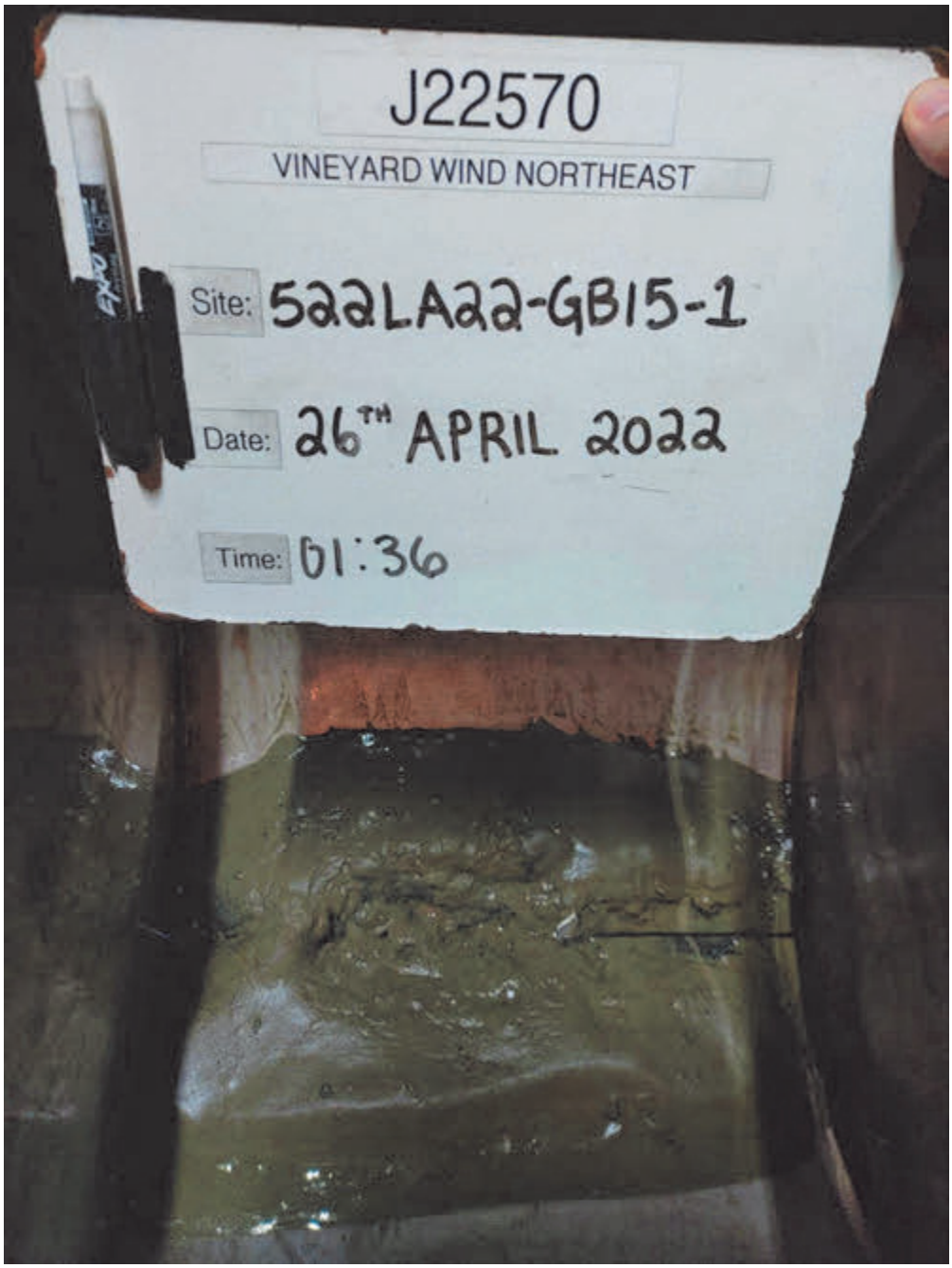

PHOTO INFORMATION

Sample ID 522LA22-GB015-2

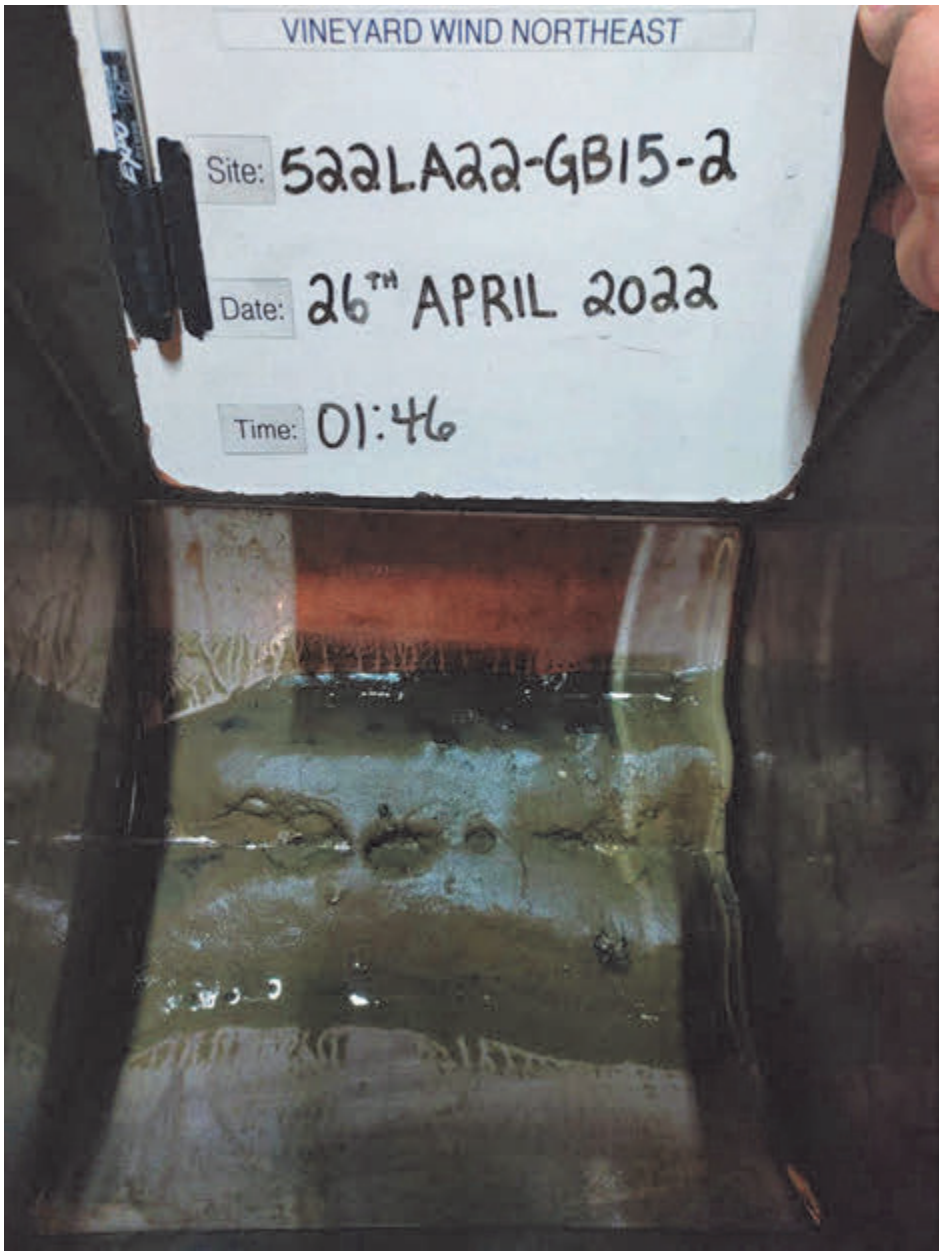

PHOTO INFORMATION

Sample ID 522LA22-GB015-3

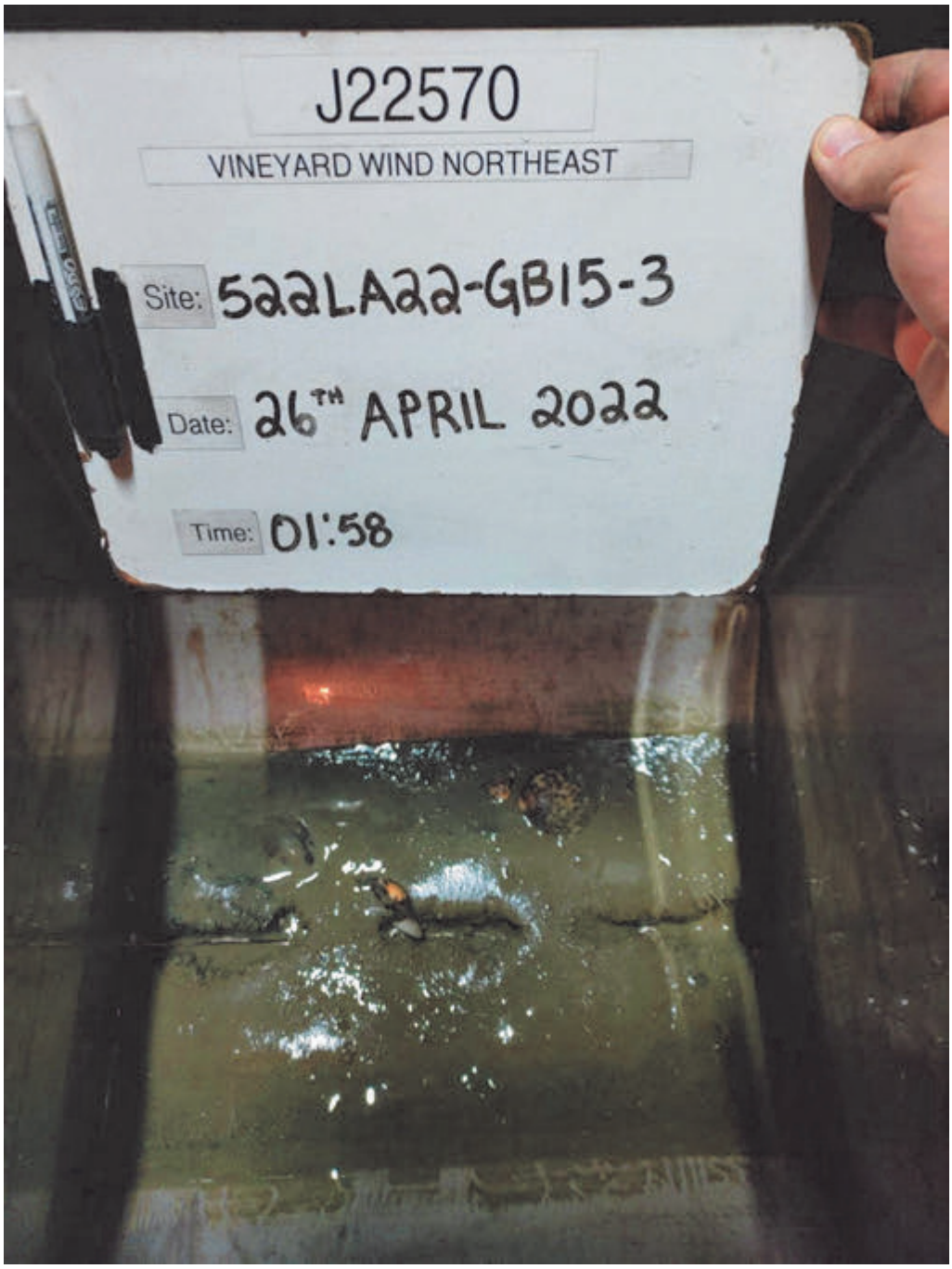

PHOTO INFORMATION

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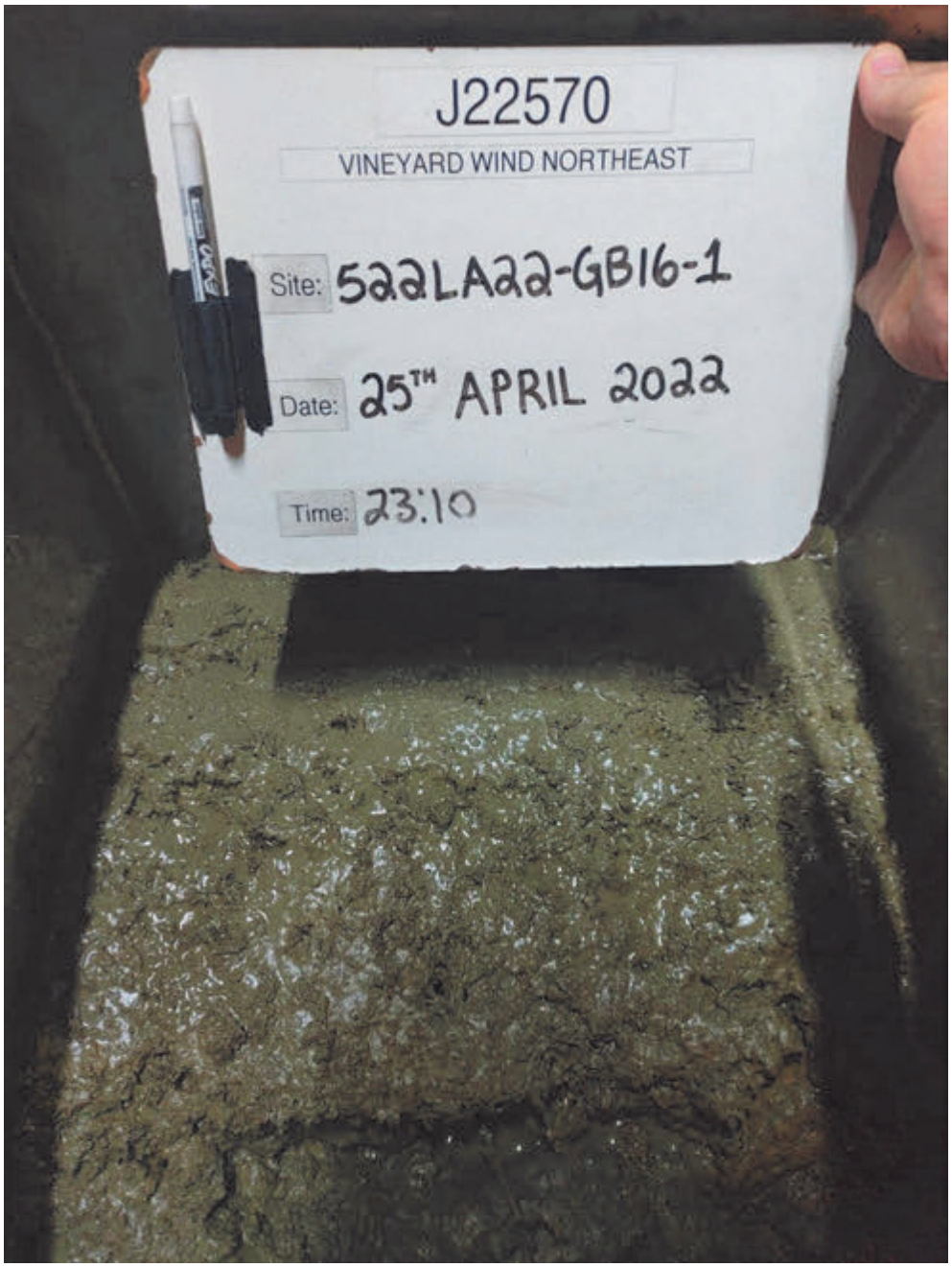

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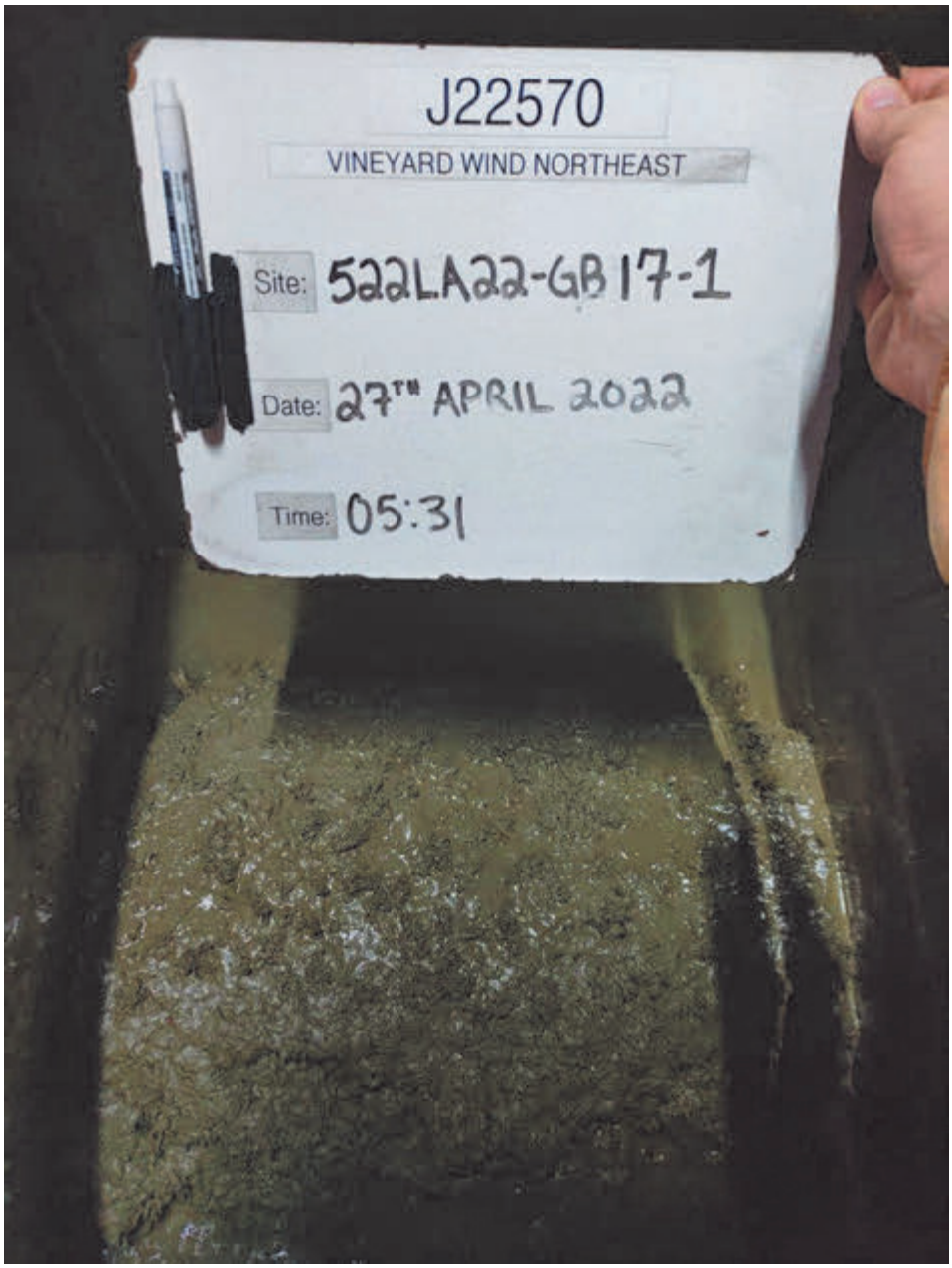

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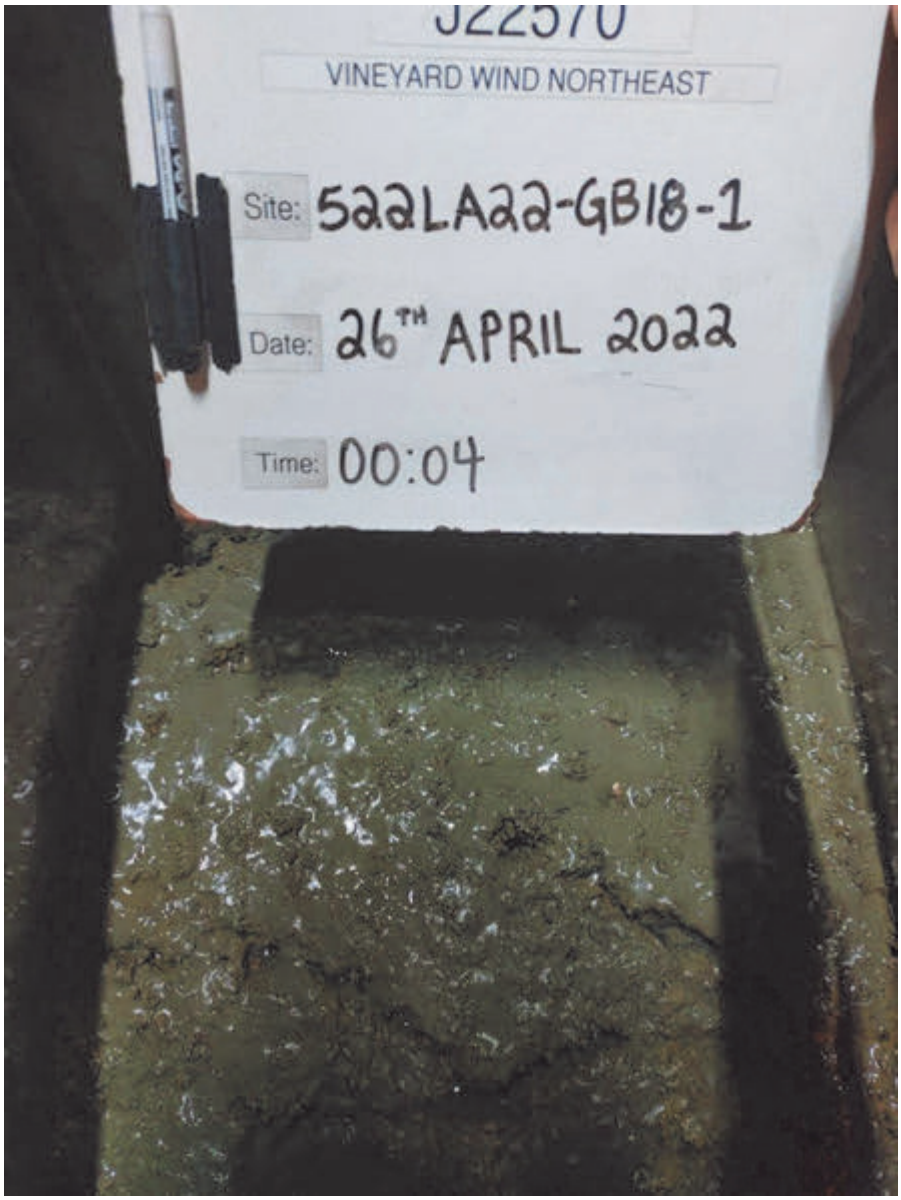

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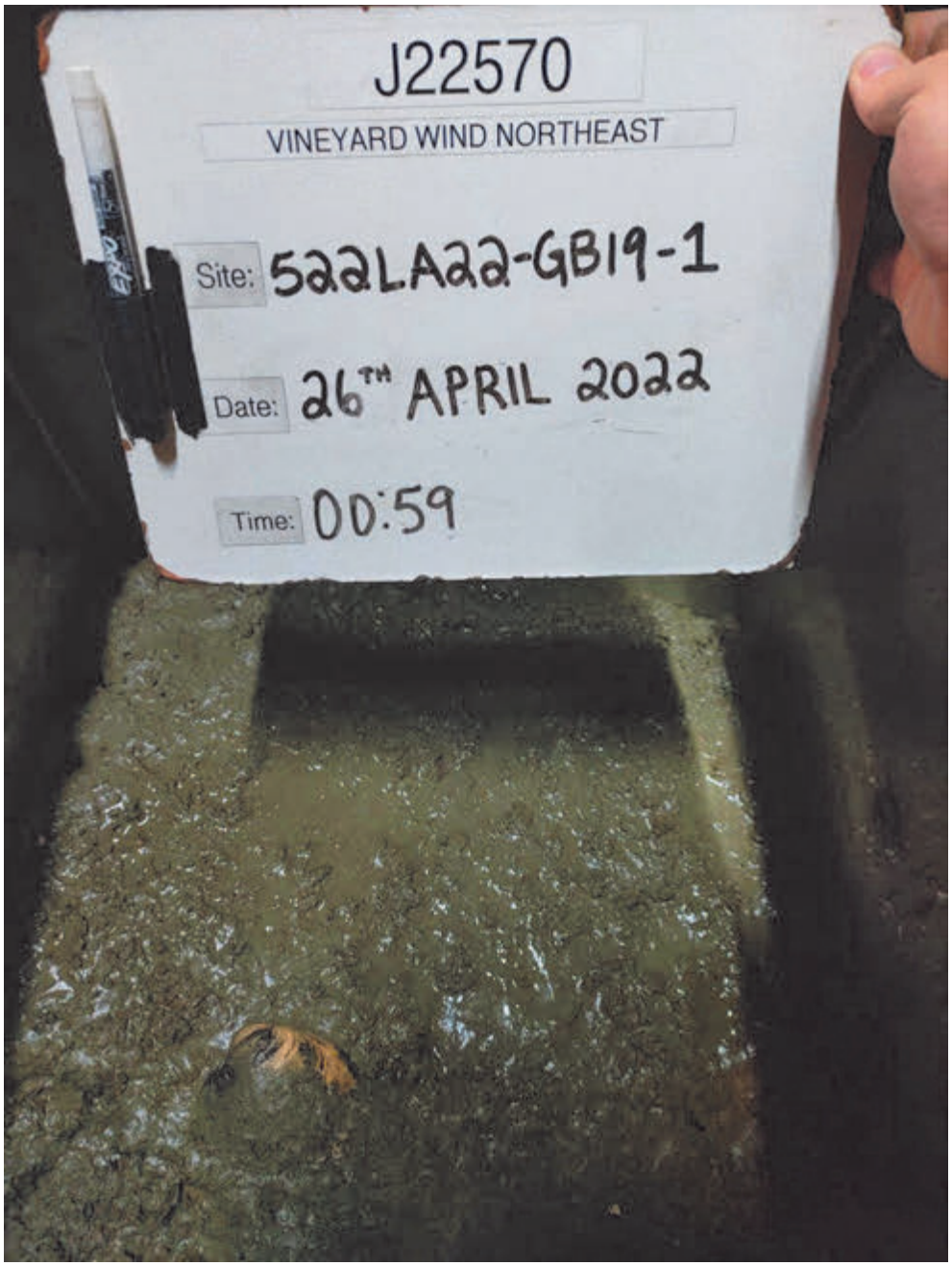

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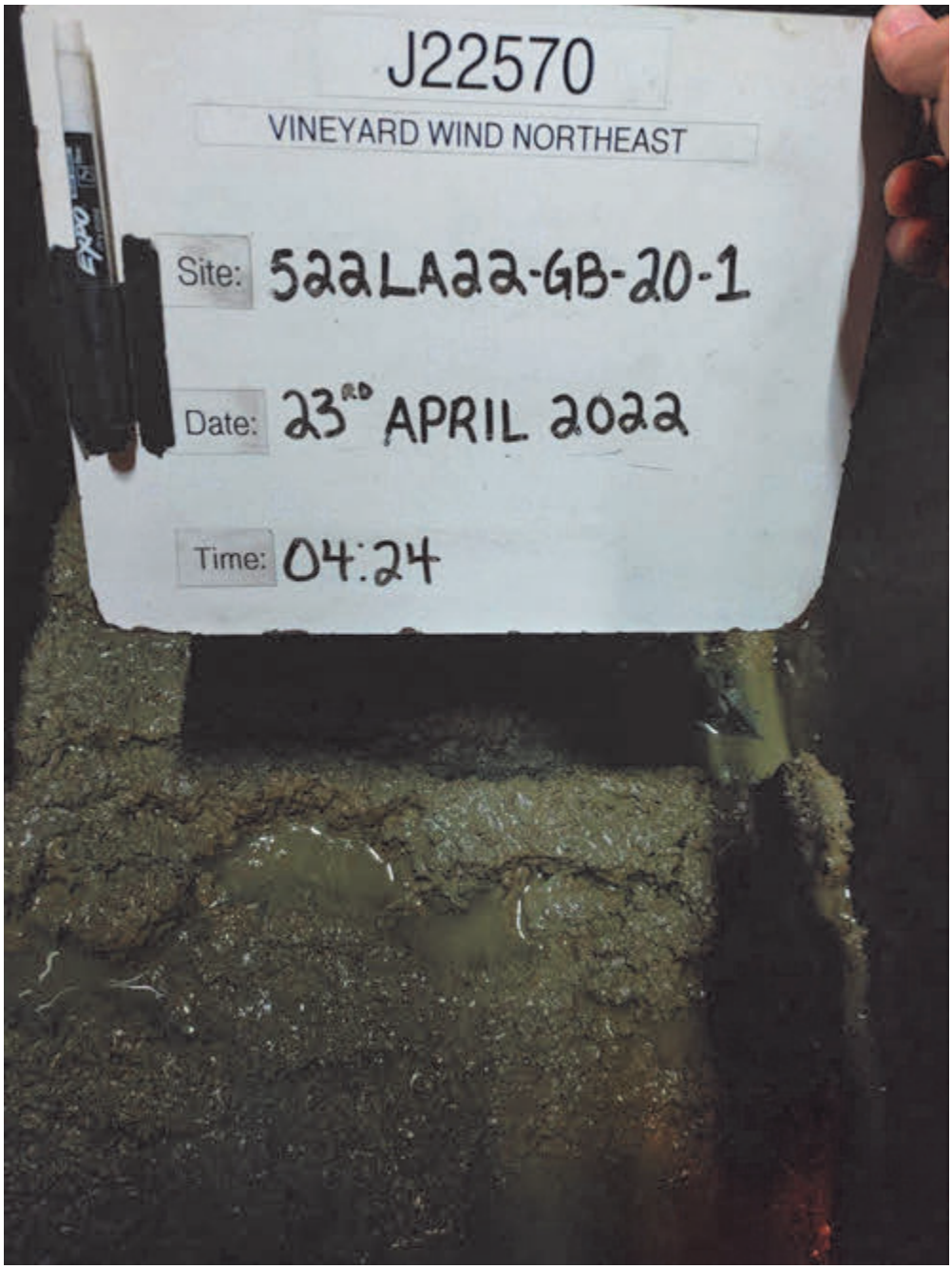

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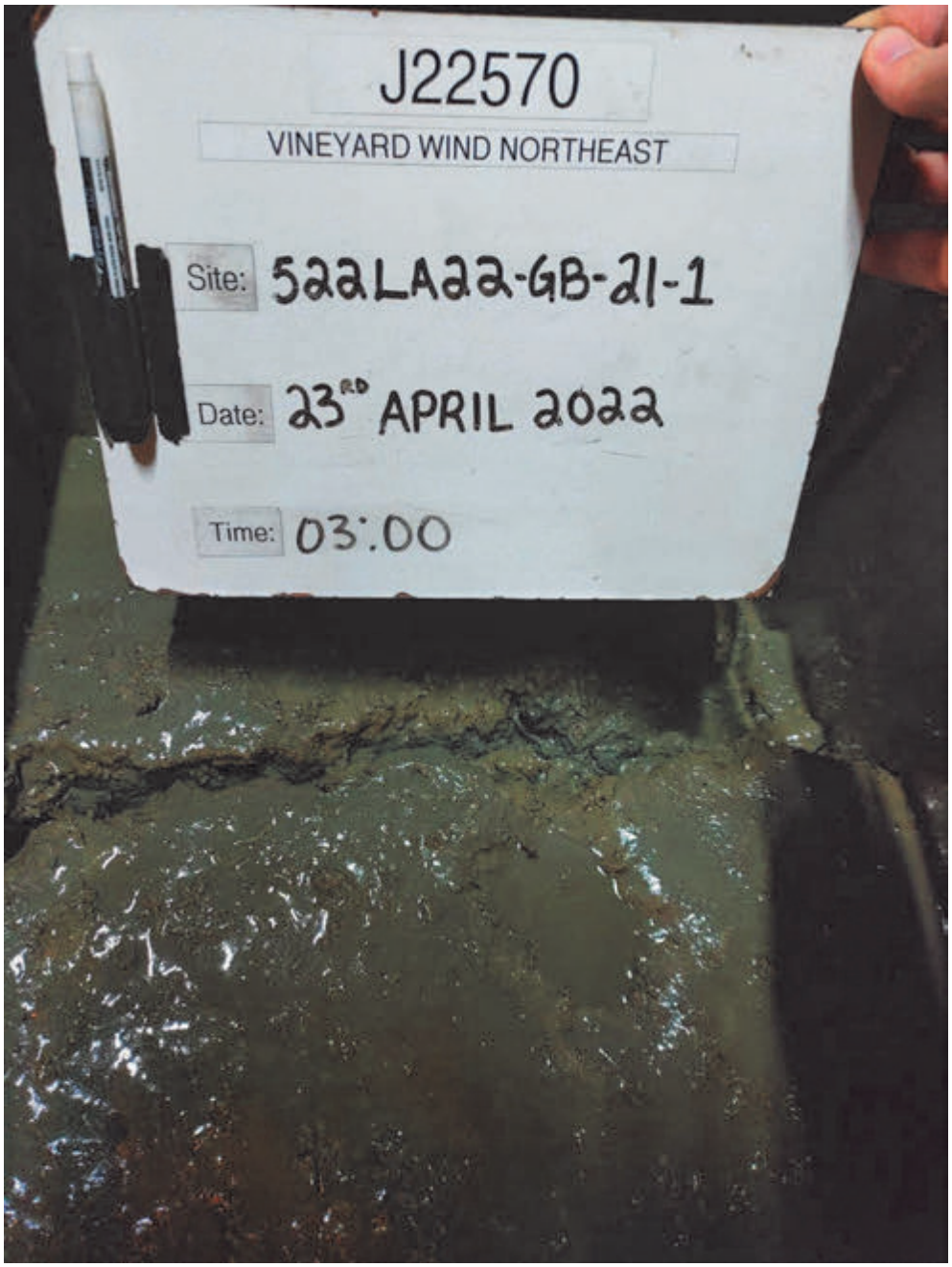

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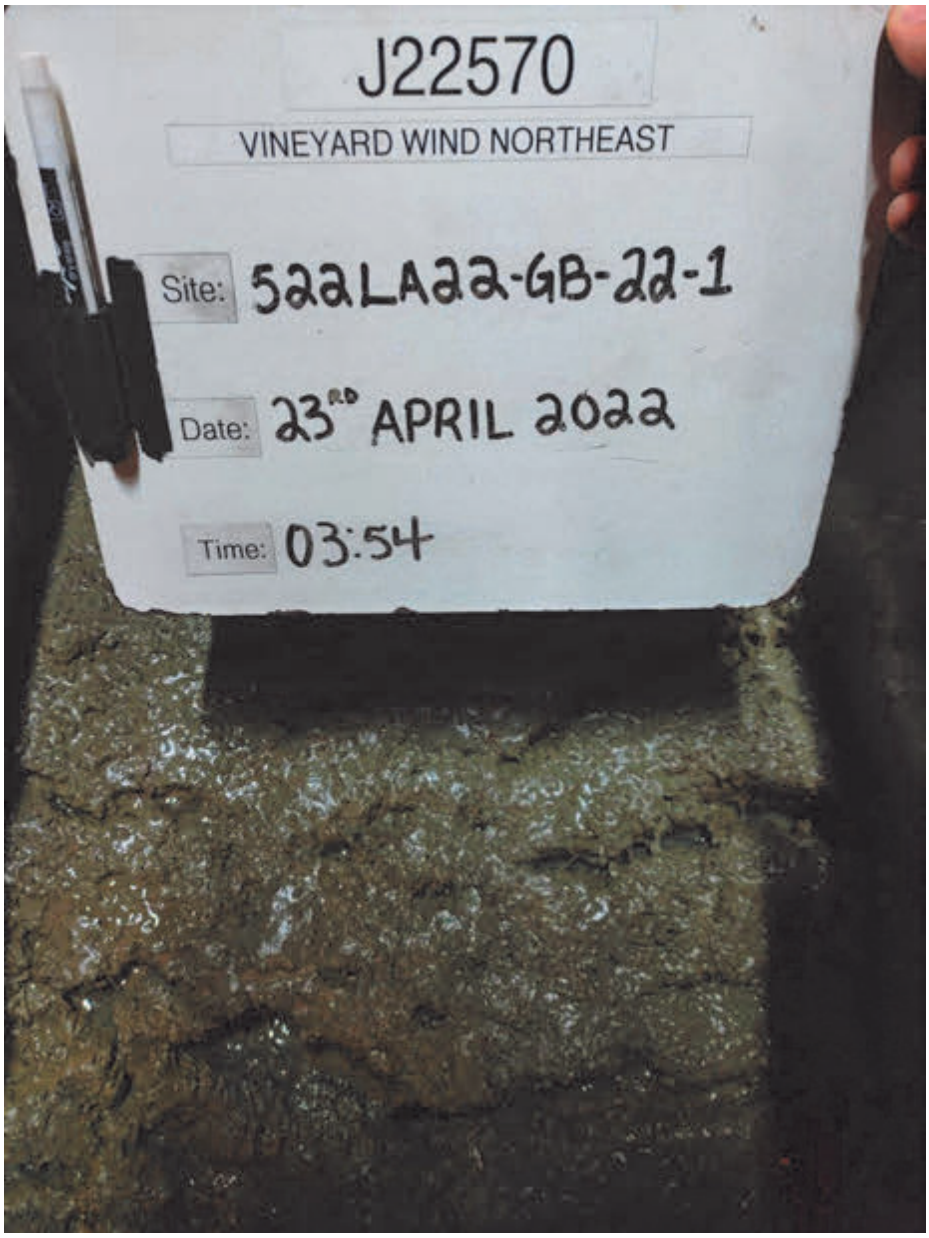

PHOTO INFORMATION

Sample ID 522LA22-GB023A-1

PHOTO INFORMATION

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PHOTO INFORMATION

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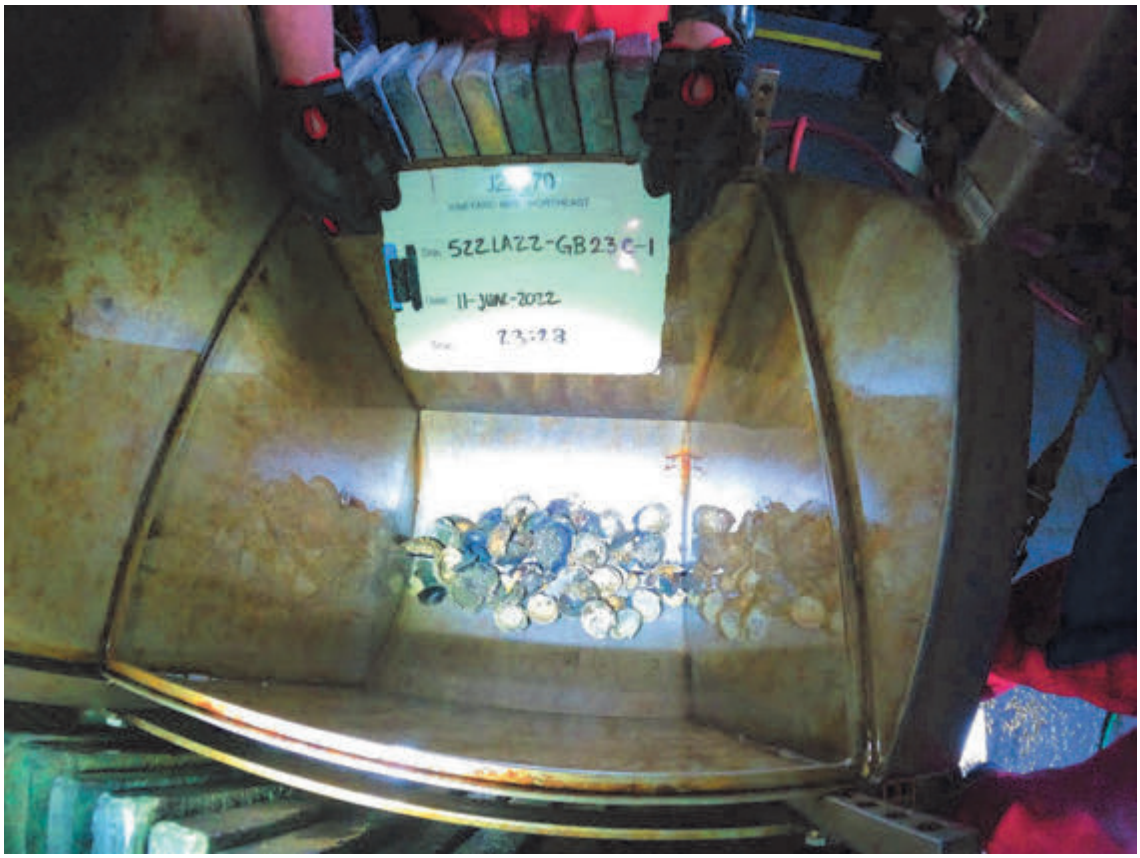

PHOTO INFORMATION

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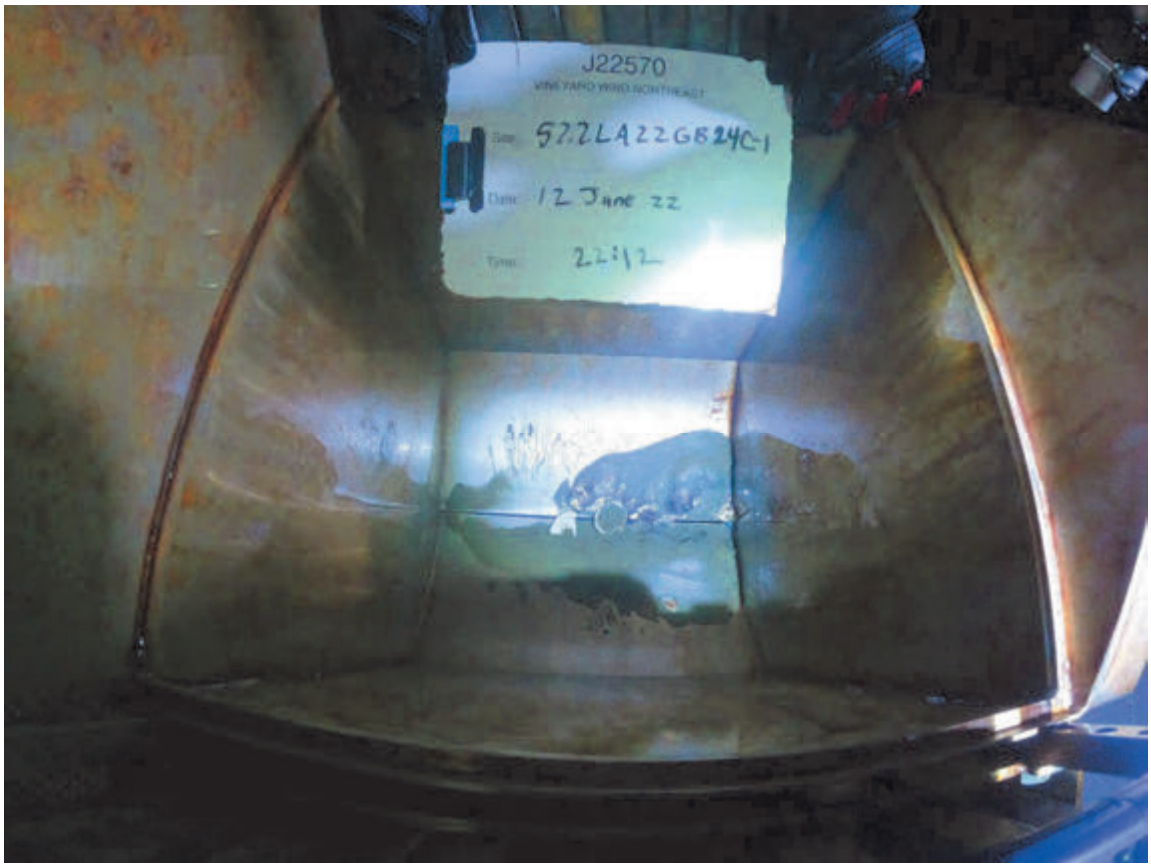

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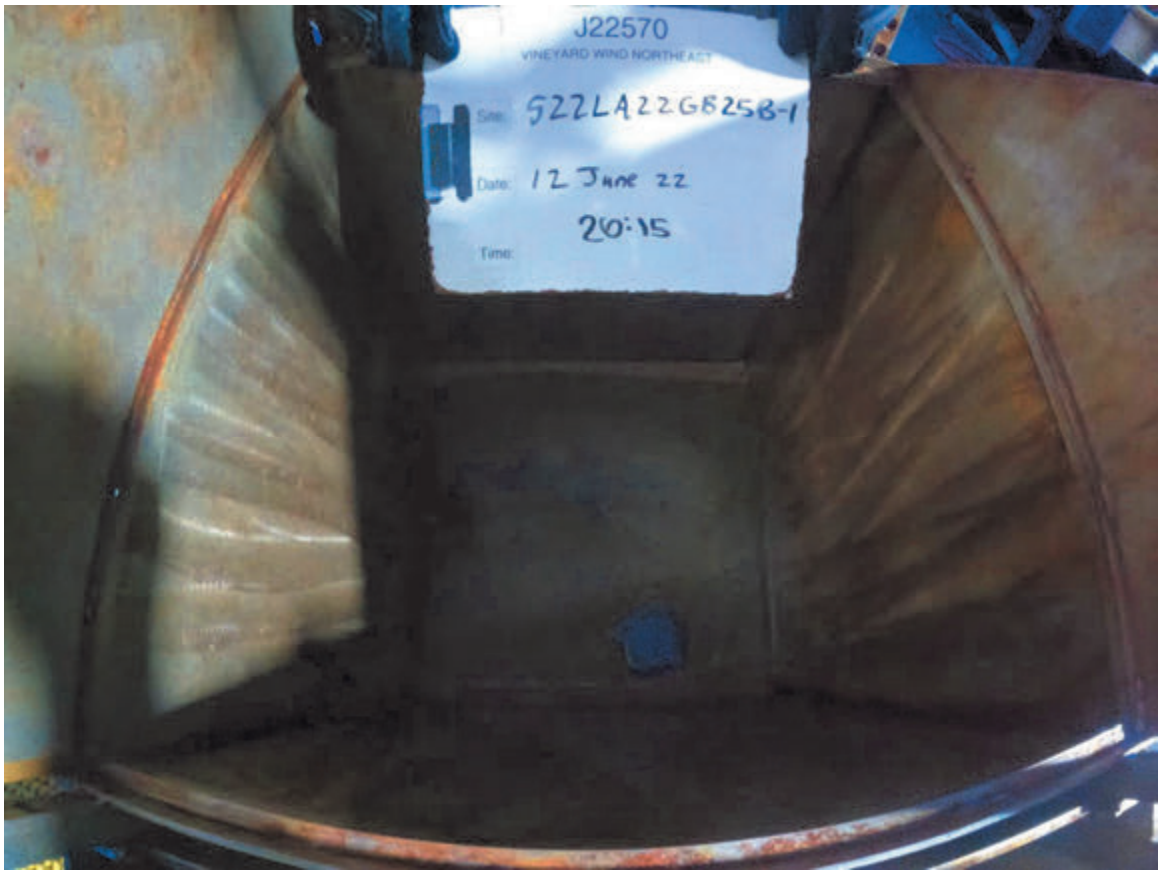

PHOTO INFORMATION

Sample ID 522LA22-GB025C-1

Appendix H-2: Benthic Grab Representative Deck Images: MA OECC

PHOTO INFORMATION

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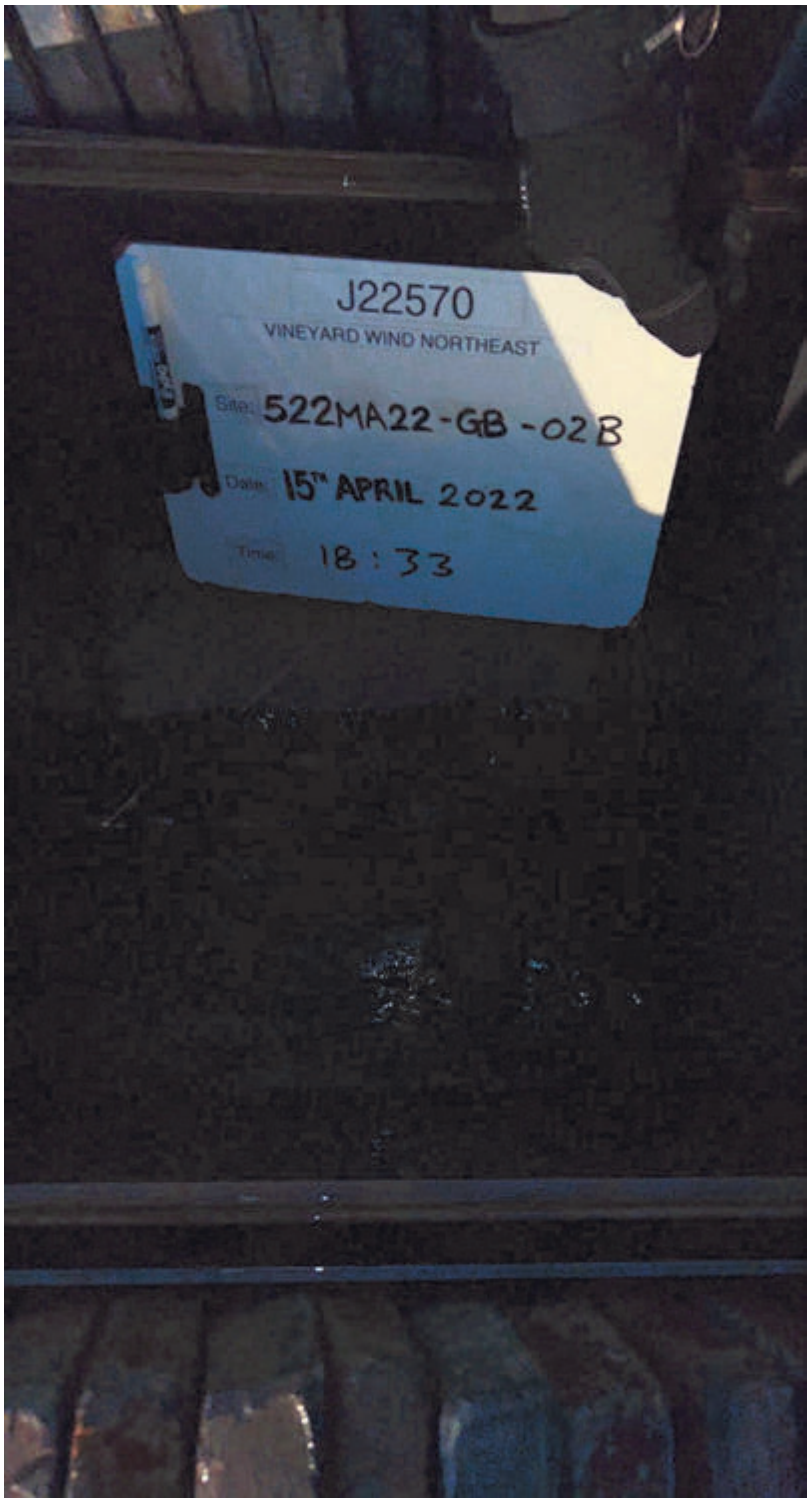
PHOTO INFORMATION

Sample ID 522MA22-GB002B-1



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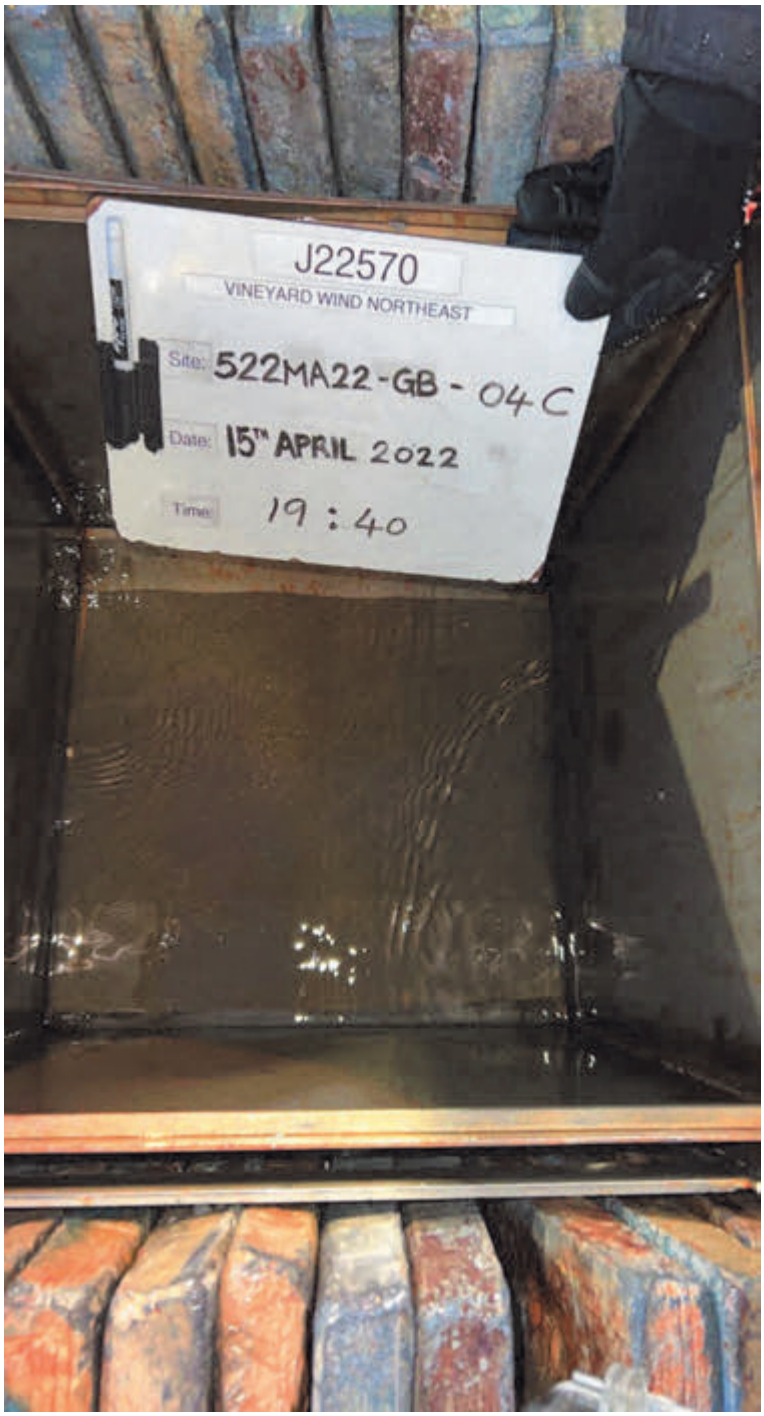

PHOTO INFORMATION

Sample ID 522MA22-GB006A-1

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Sample ID 522MA22-GB007-1

PHOTO INFORMATION

Sample ID 522MA22-GB008A-1

PHOTO INFORMATION

Sample ID 522MA22-GB008B-1

PHOTO INFORMATION

Sample ID 522MA22-GB008C-1

PHOTO INFORMATION

Sample ID 522MA22-GB009-1

PHOTO INFORMATION

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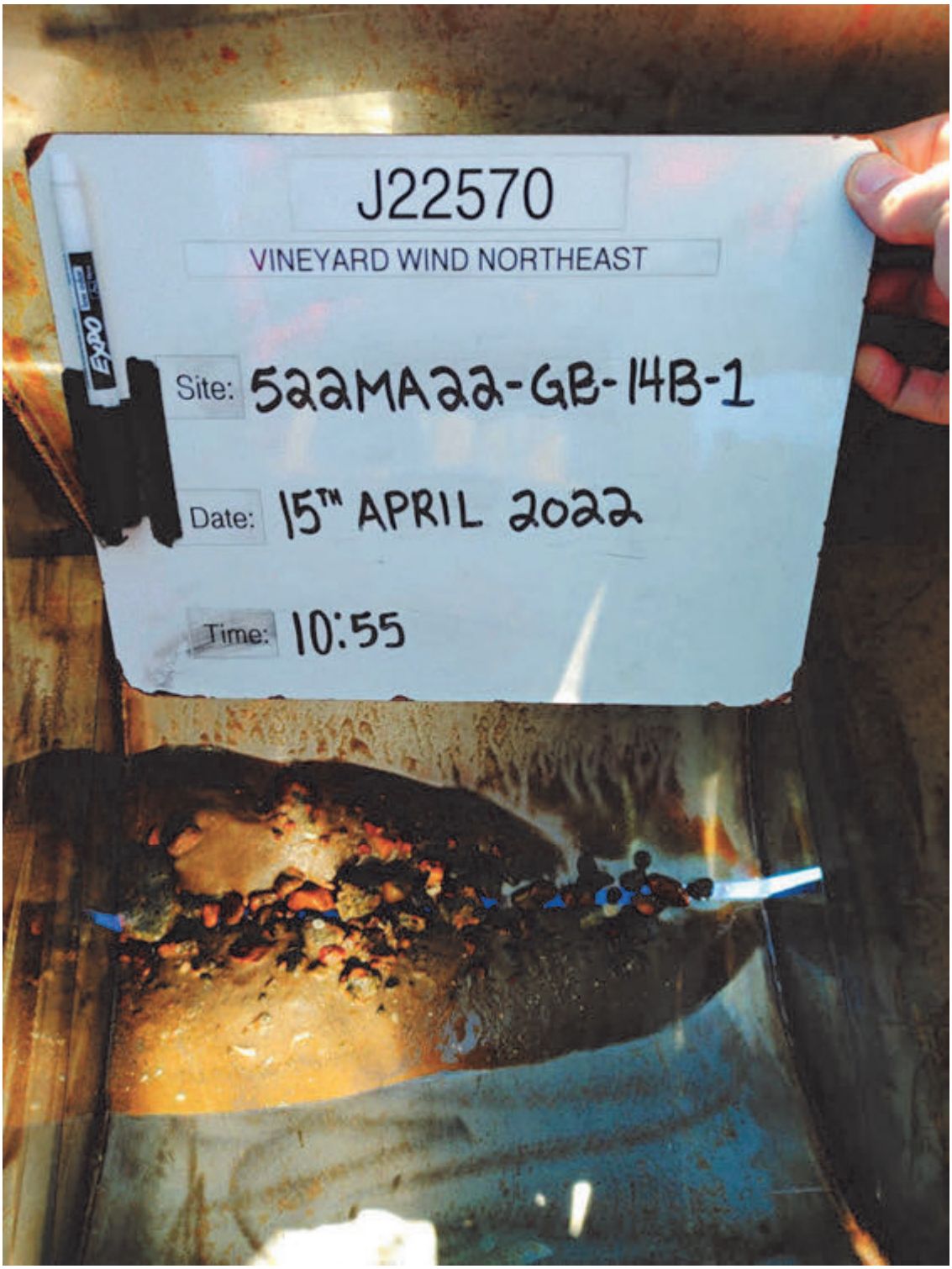

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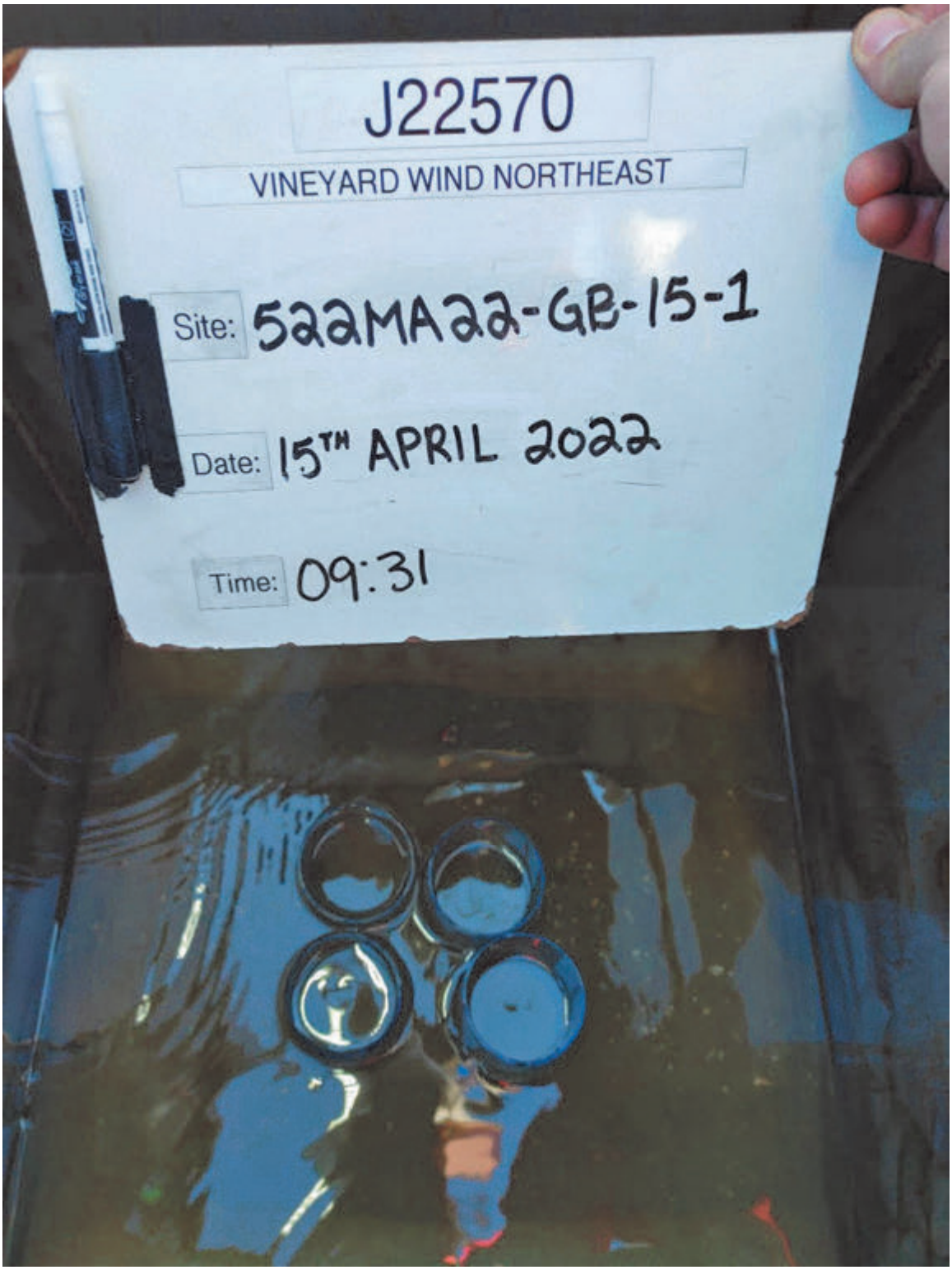

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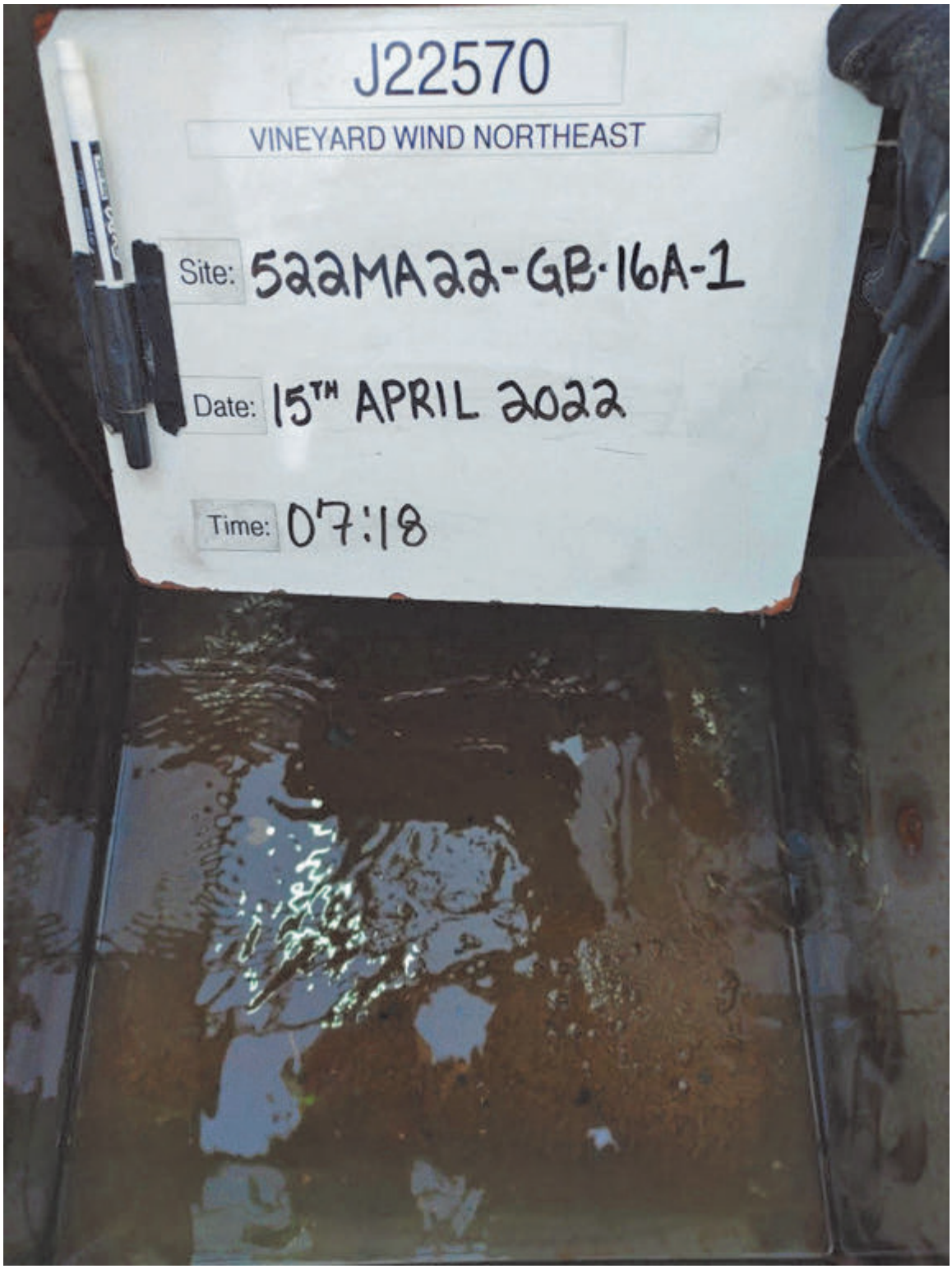

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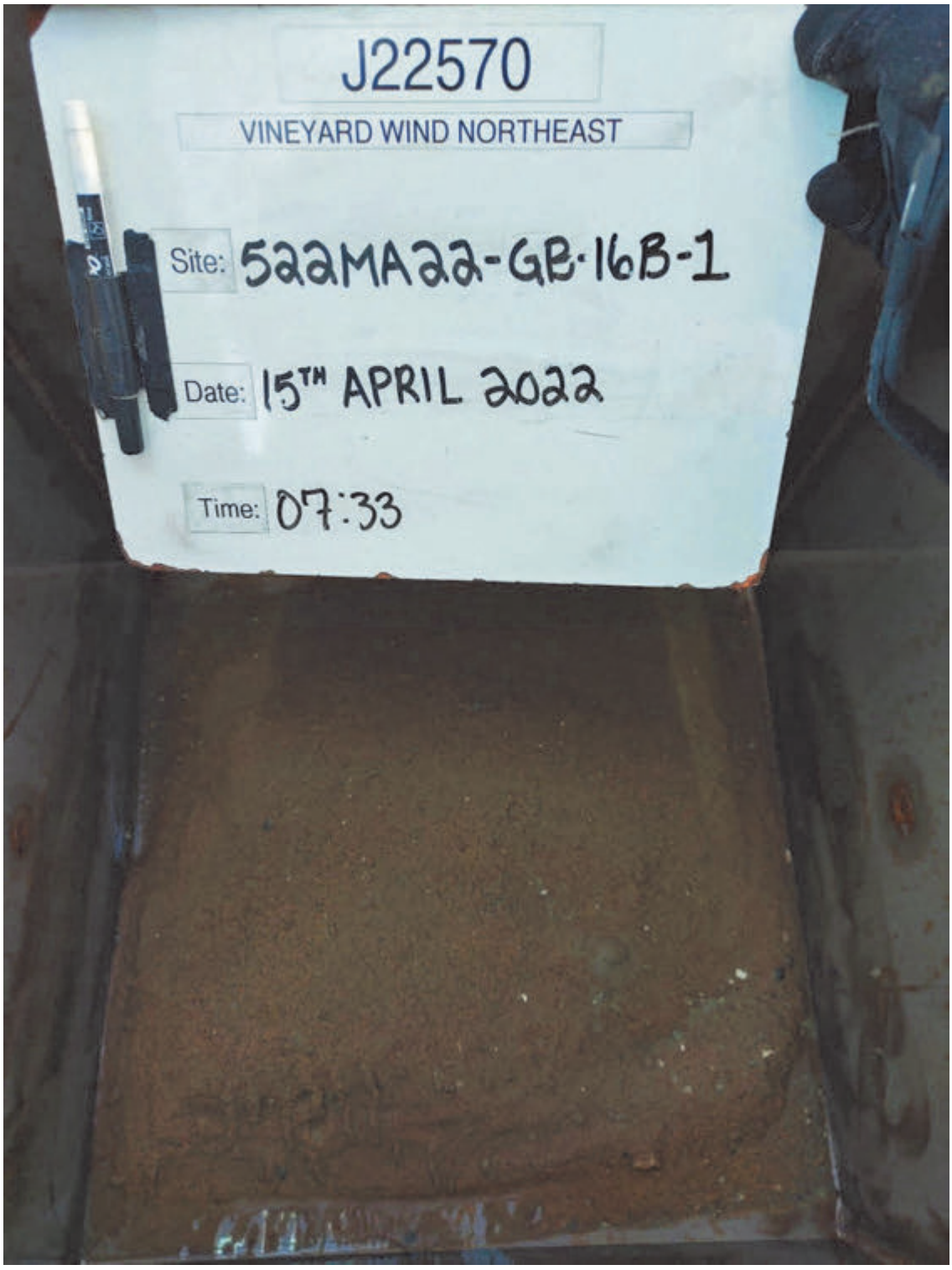

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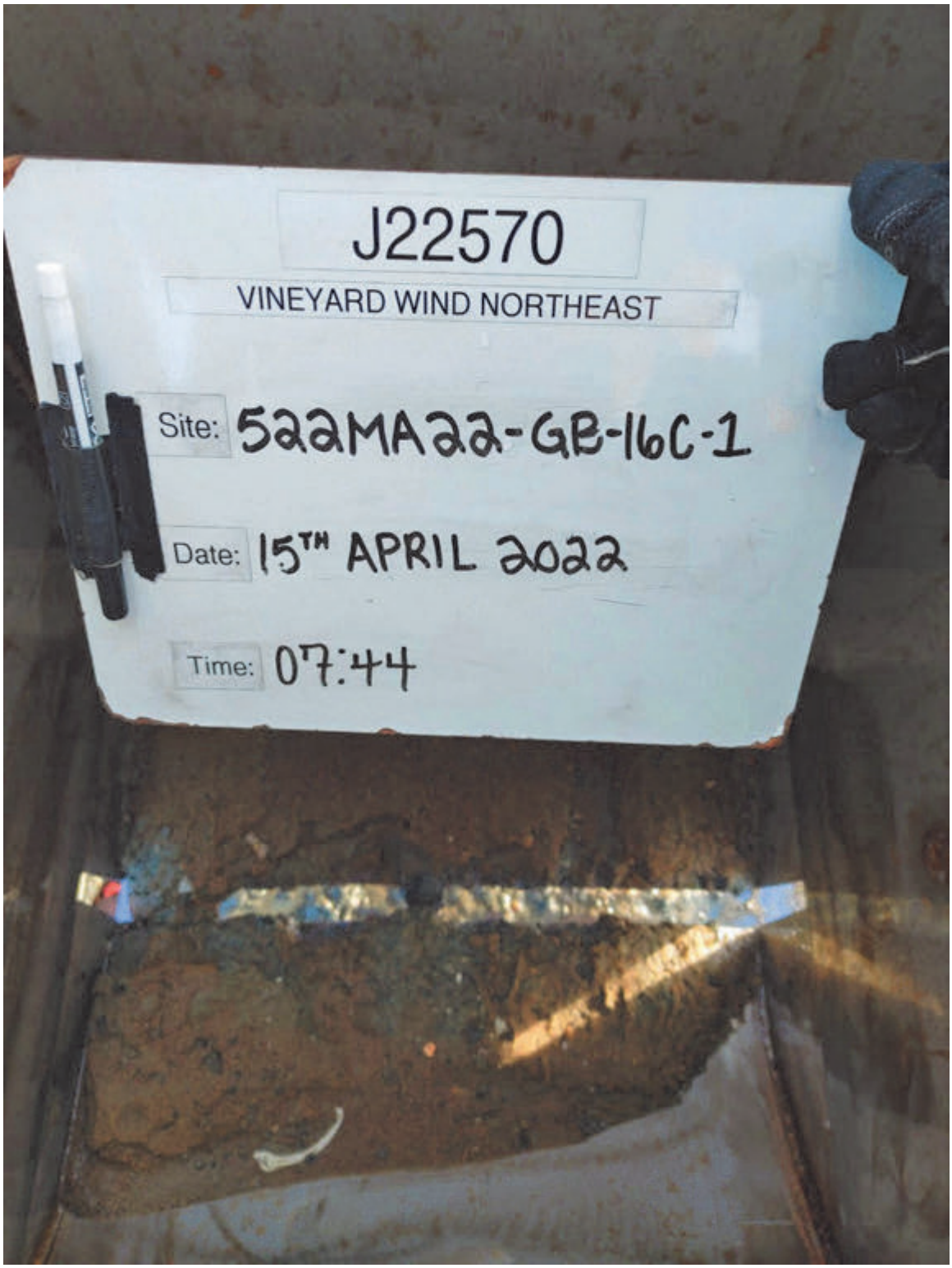

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Sample ID 522MA22-GB017-1

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Sample ID 522MA22-GB017-2

PHOTO INFORMATION

Sample ID 522MA22-GB017-2

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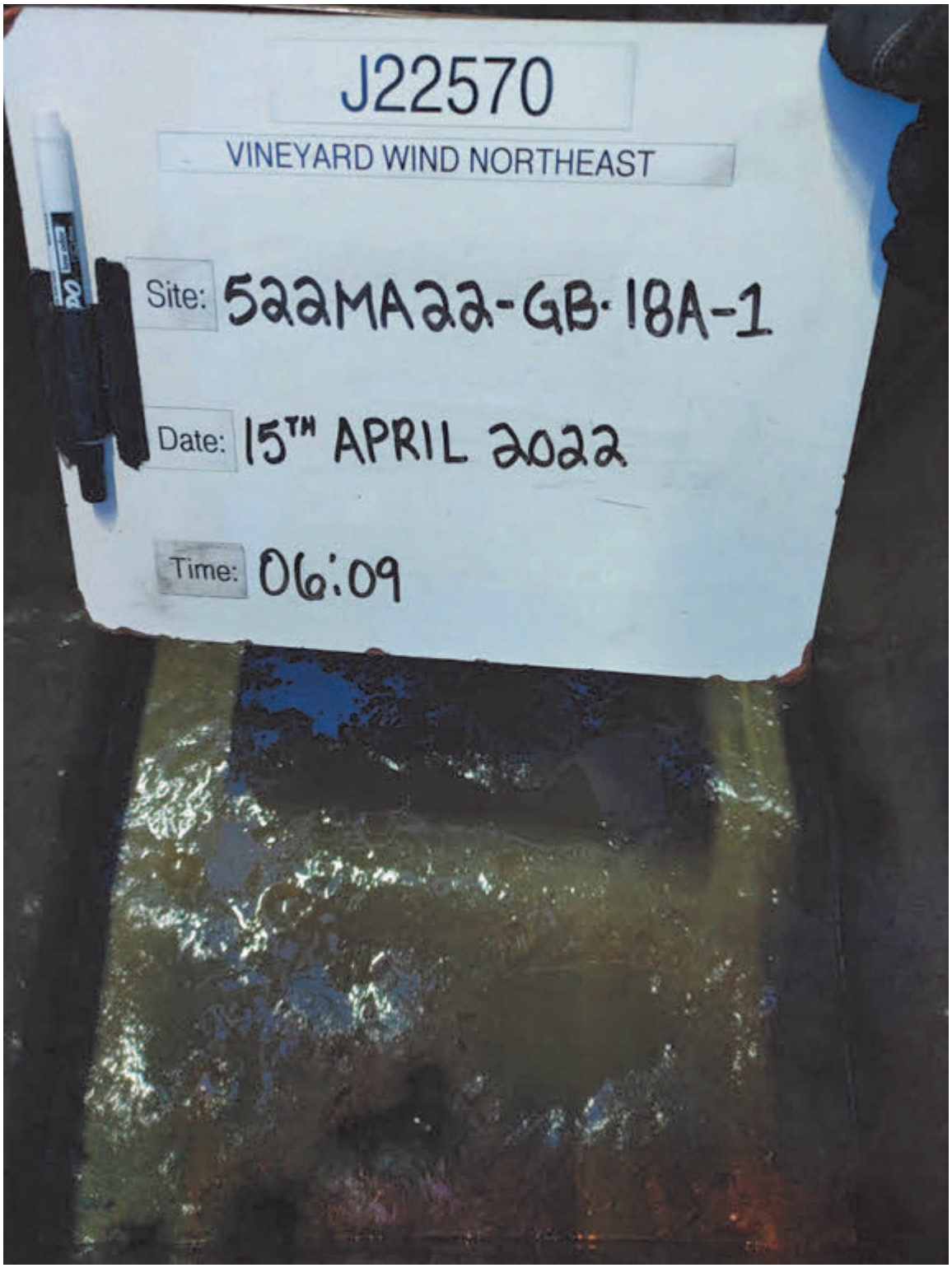

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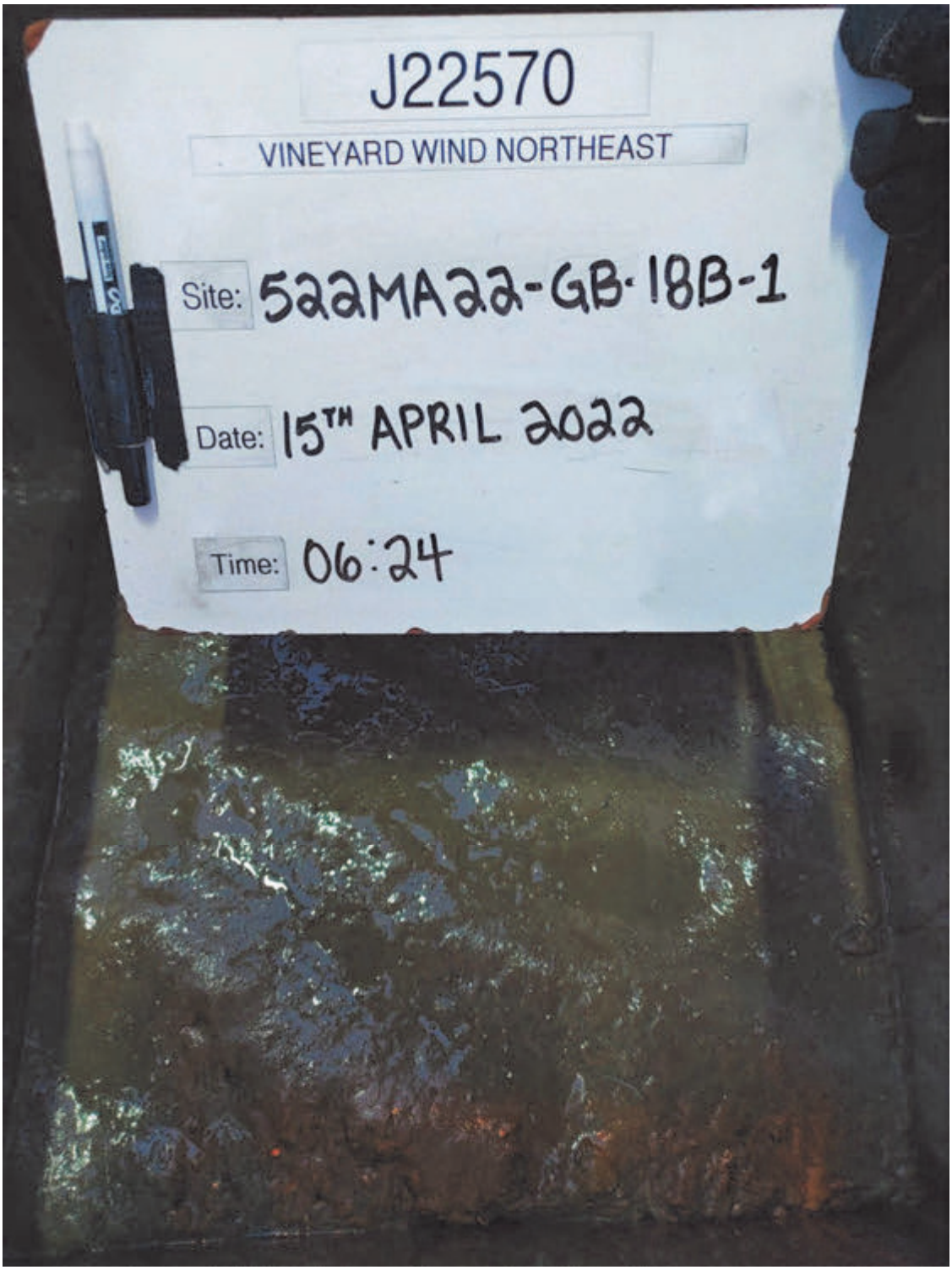

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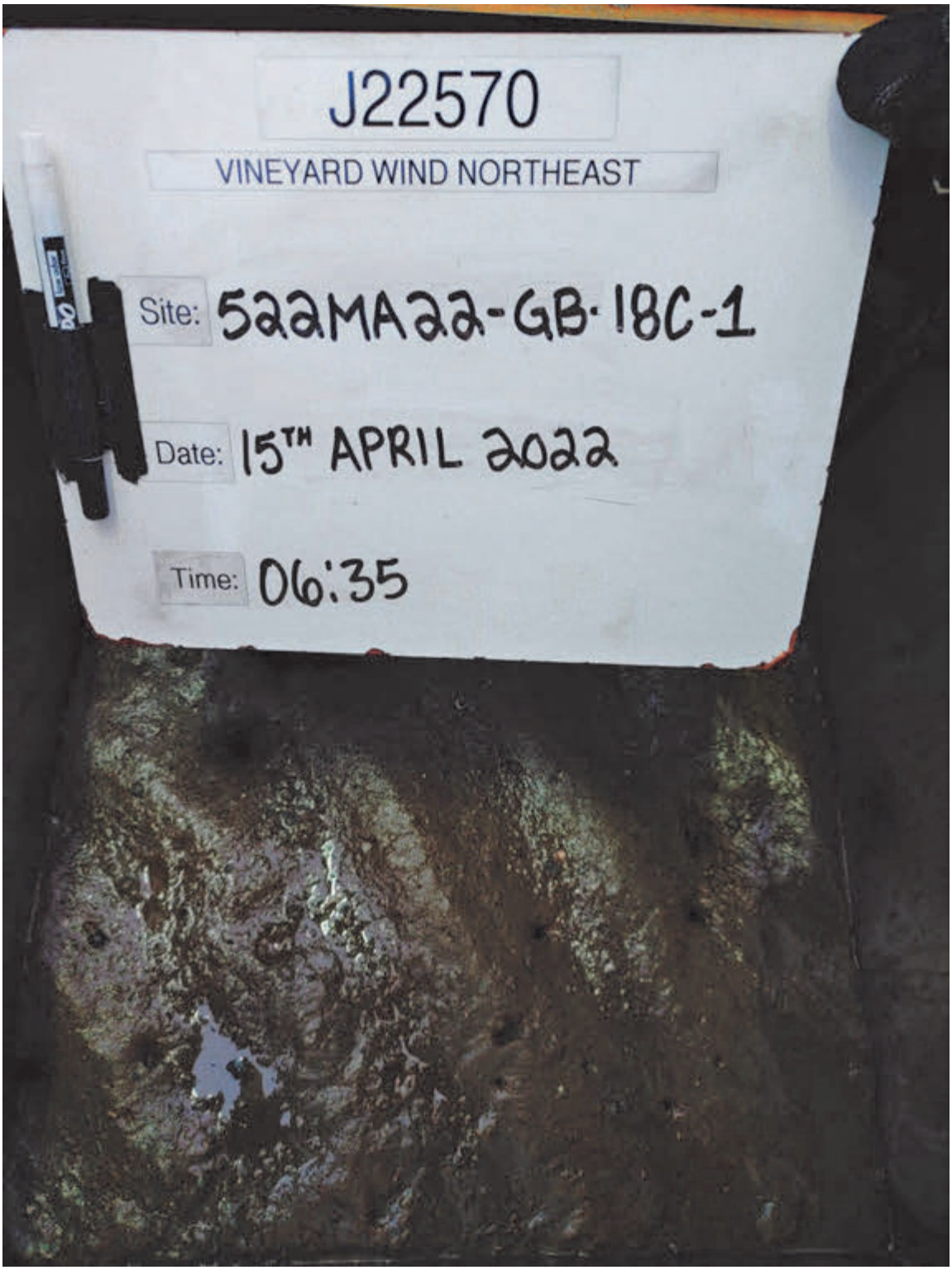

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Sample ID 522MA22-GB019-1

PHOTO INFORMATION

Sample ID 522MA22-GB019-2

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Sample ID 522MA22-GB019-2

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Sample ID 522MA22-GB019-2

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Sample ID 522MA22-GB019-2

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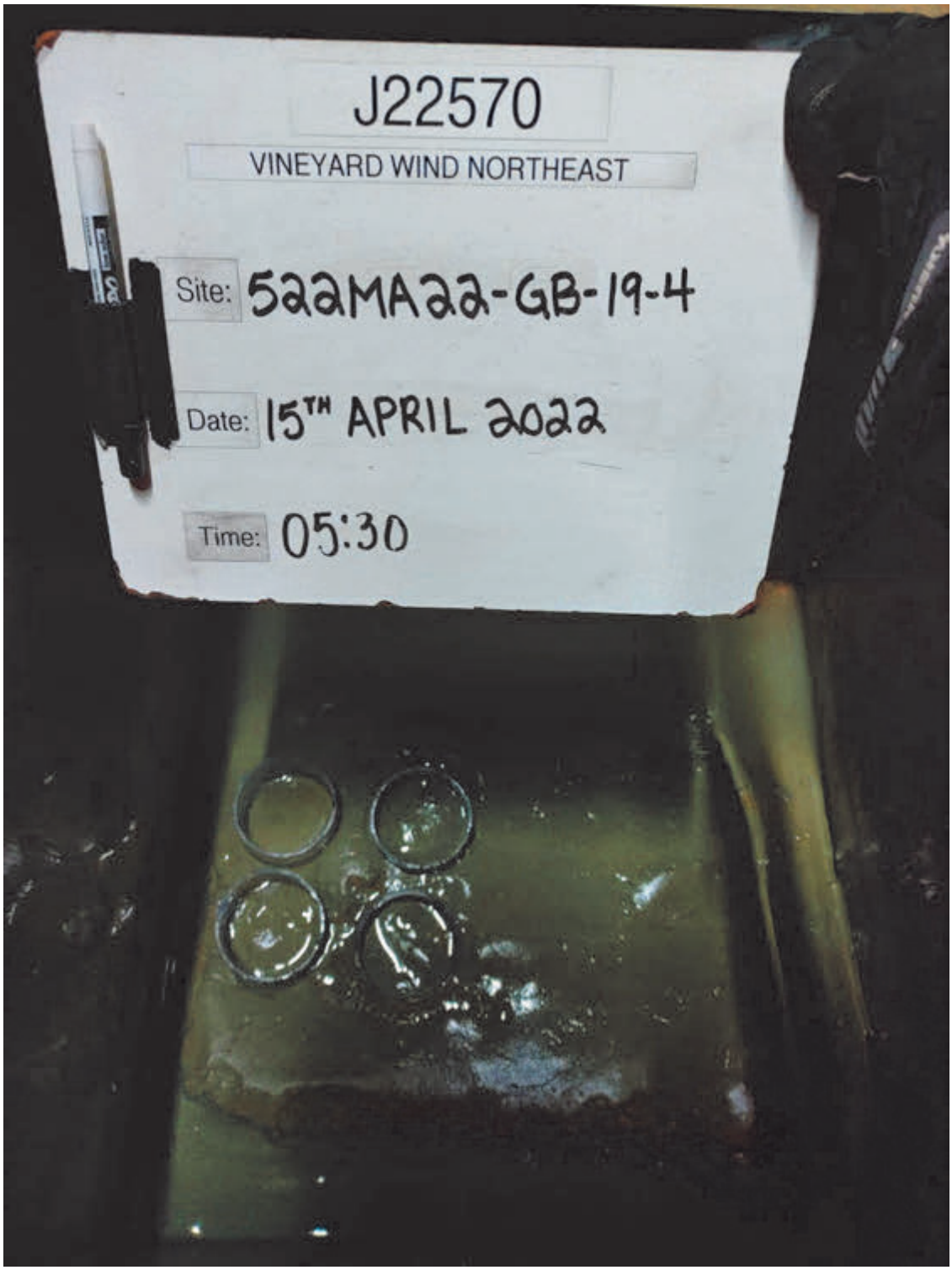

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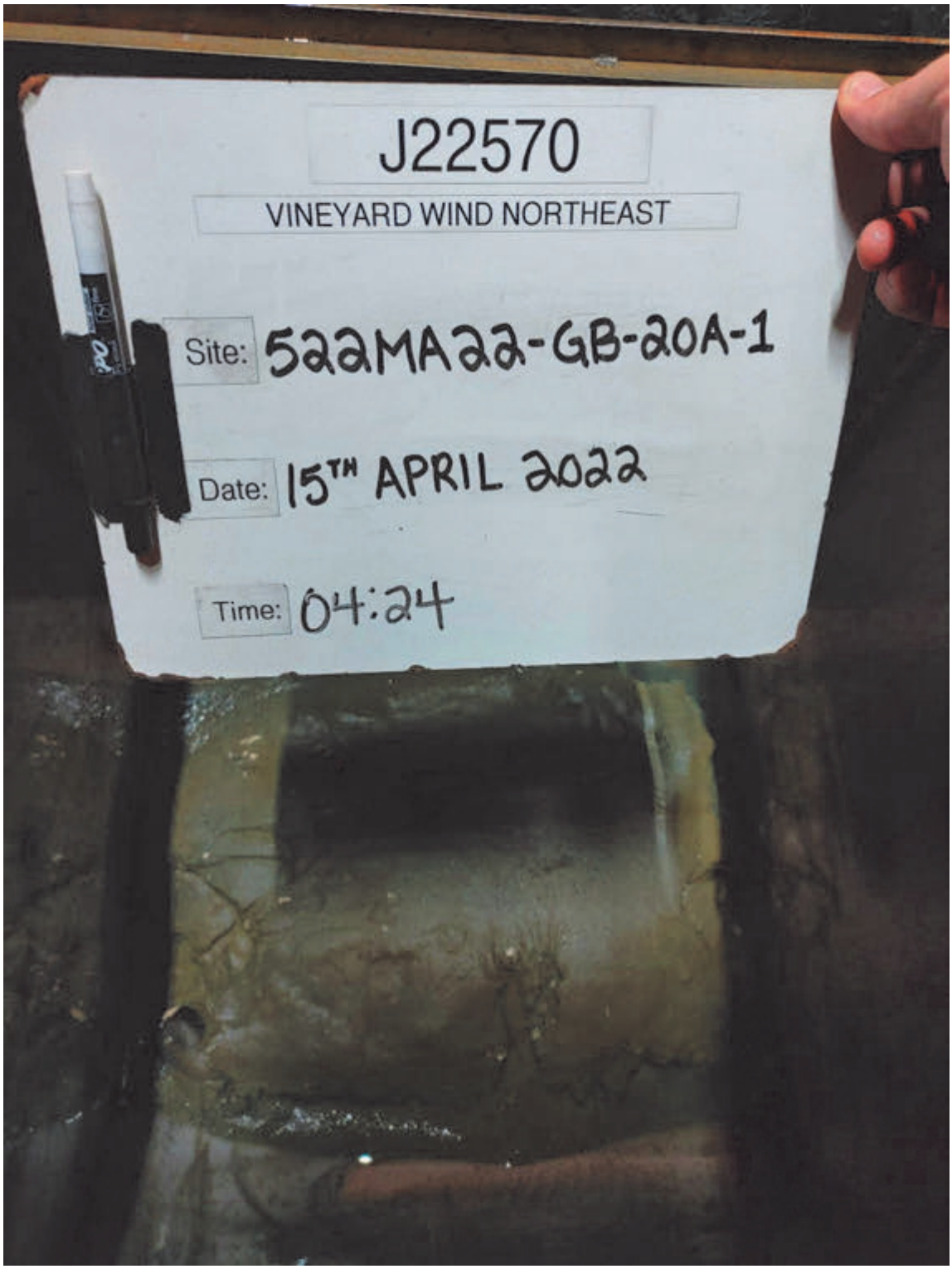

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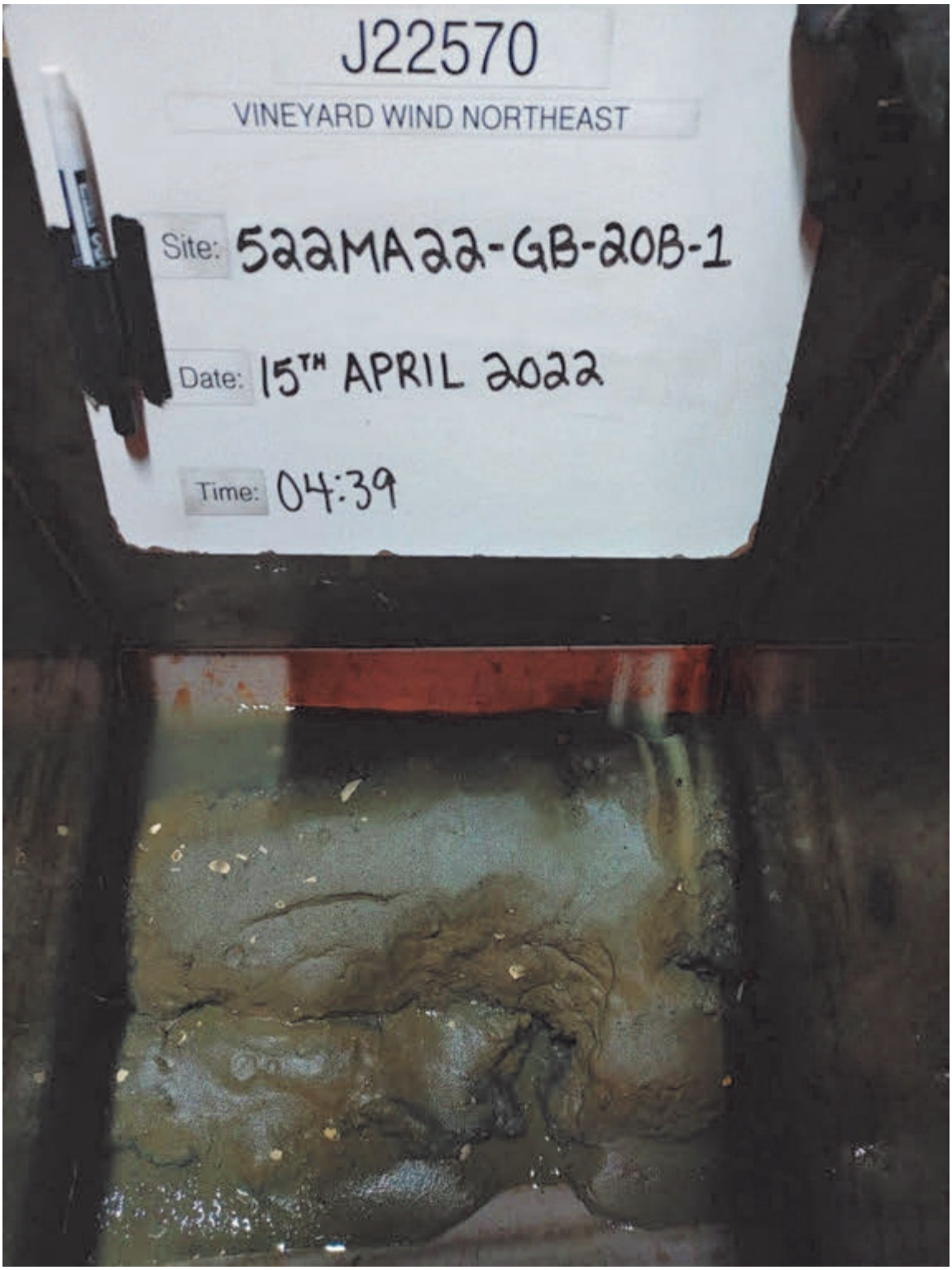

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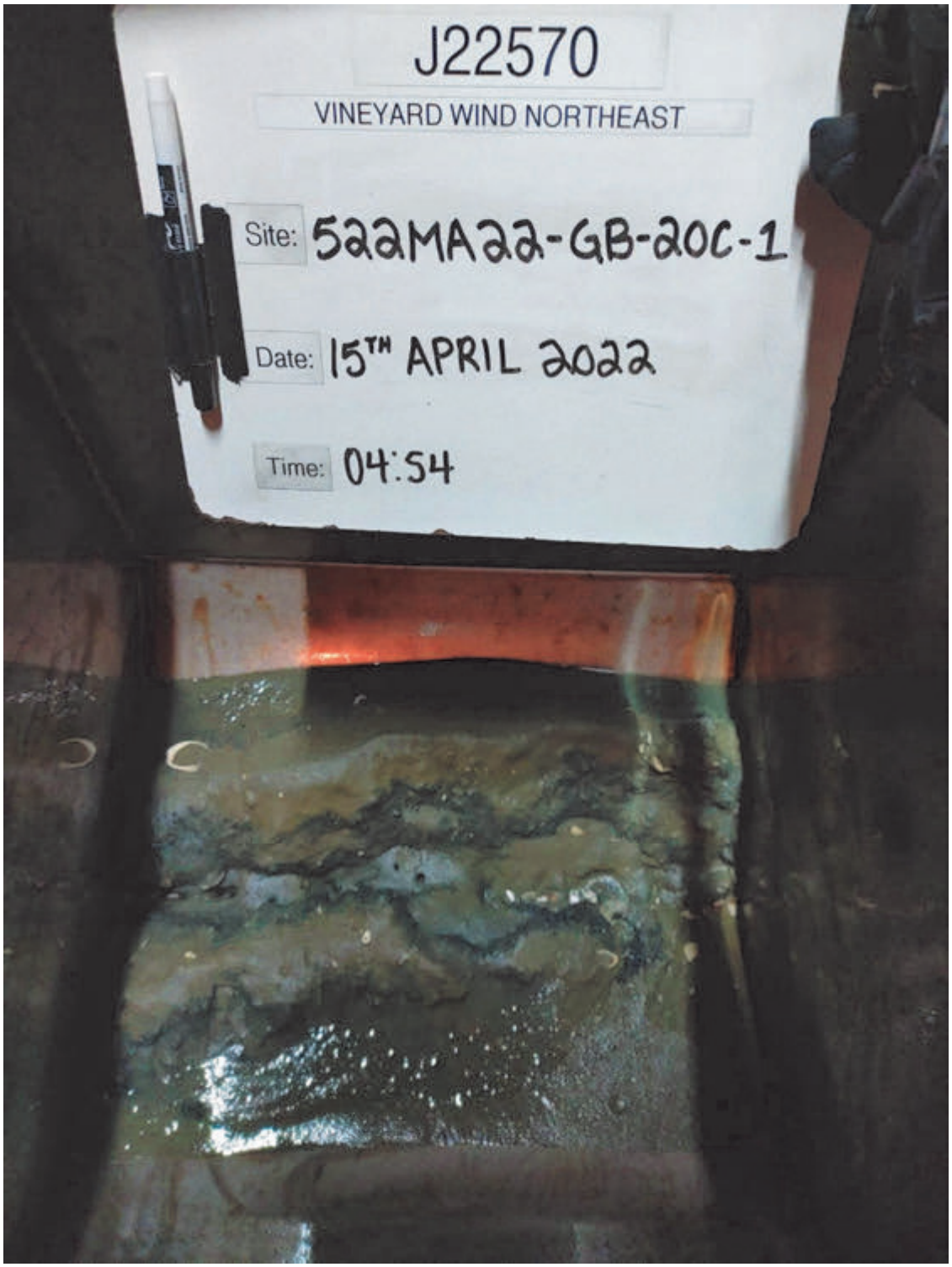

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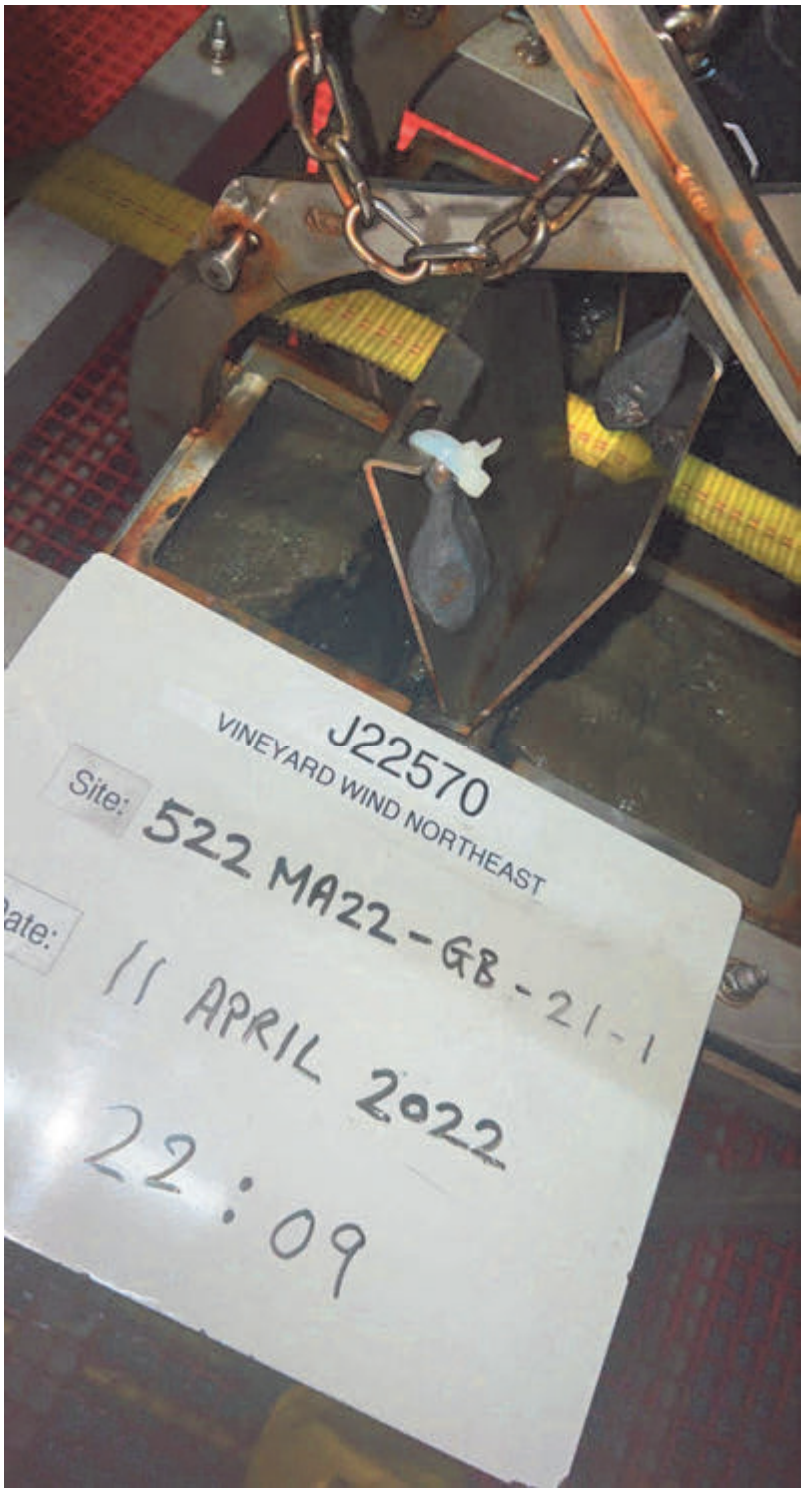

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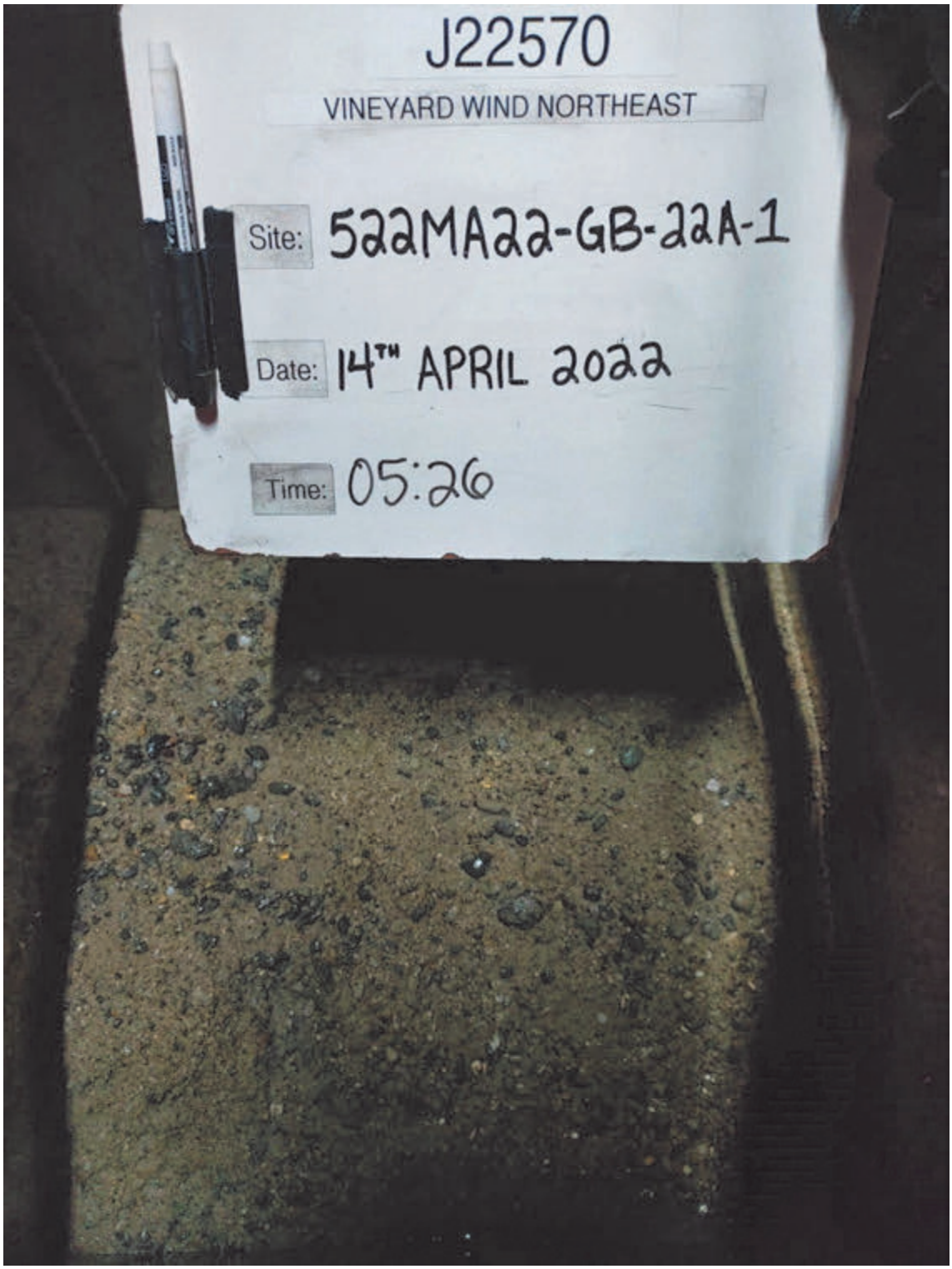

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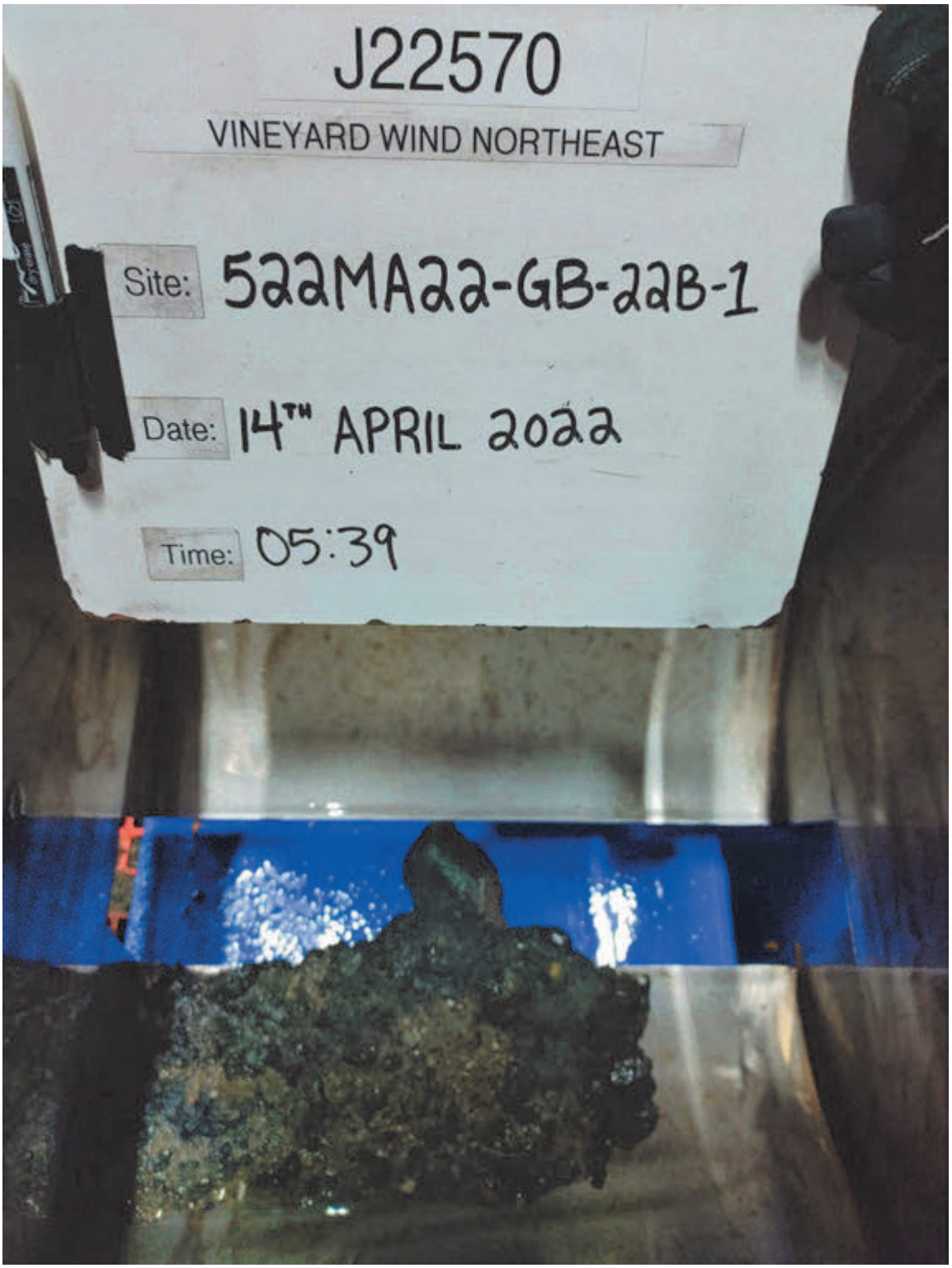

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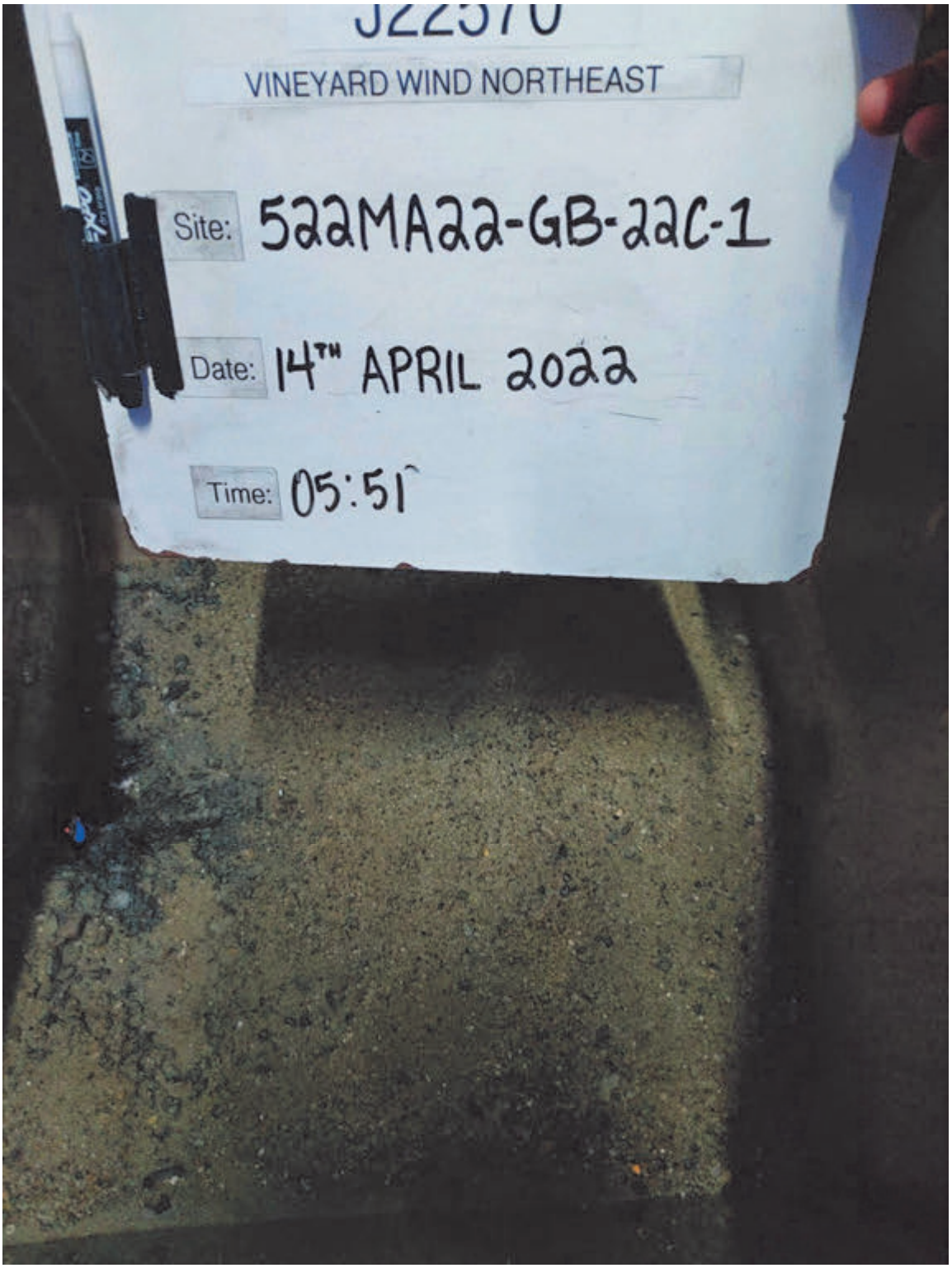

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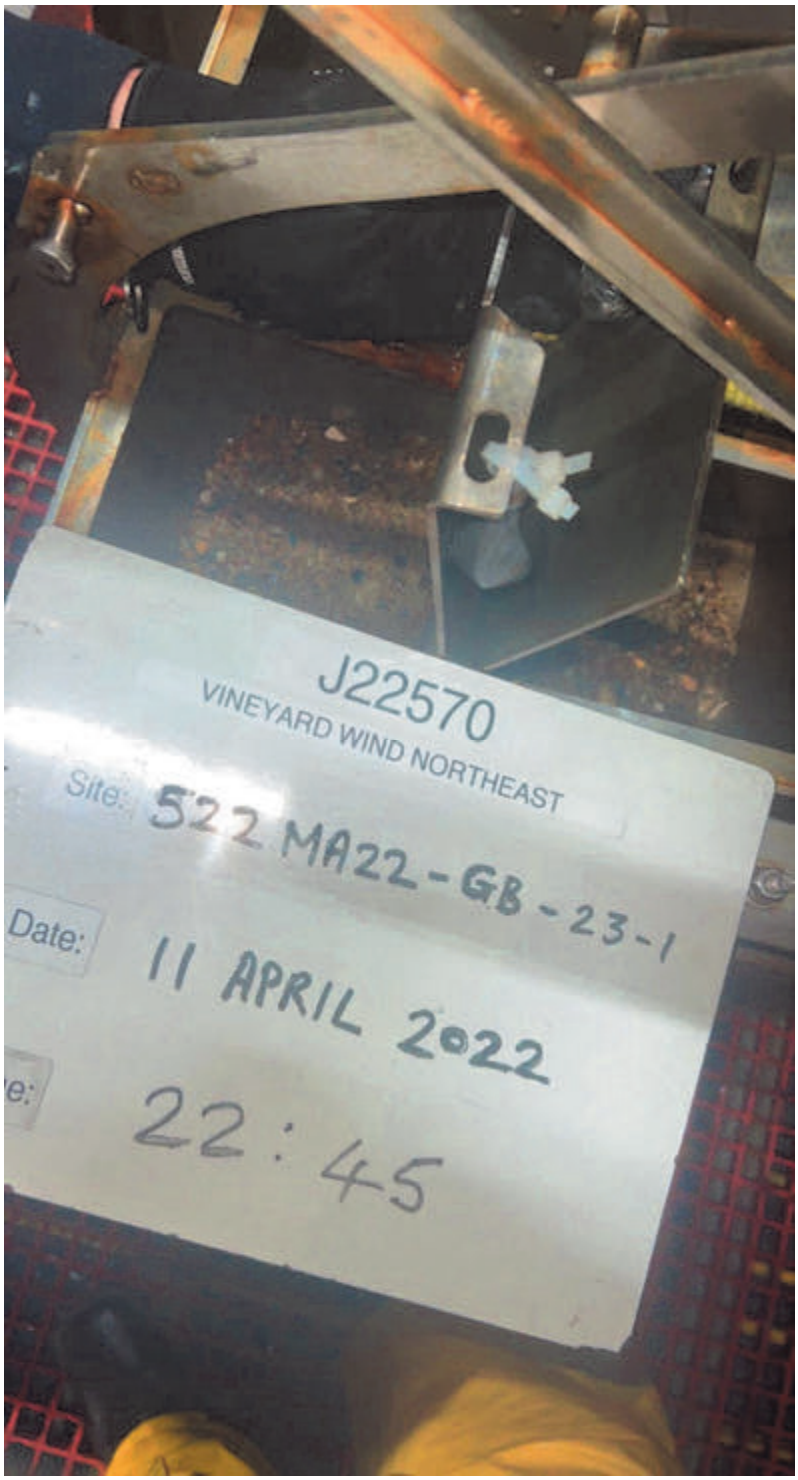

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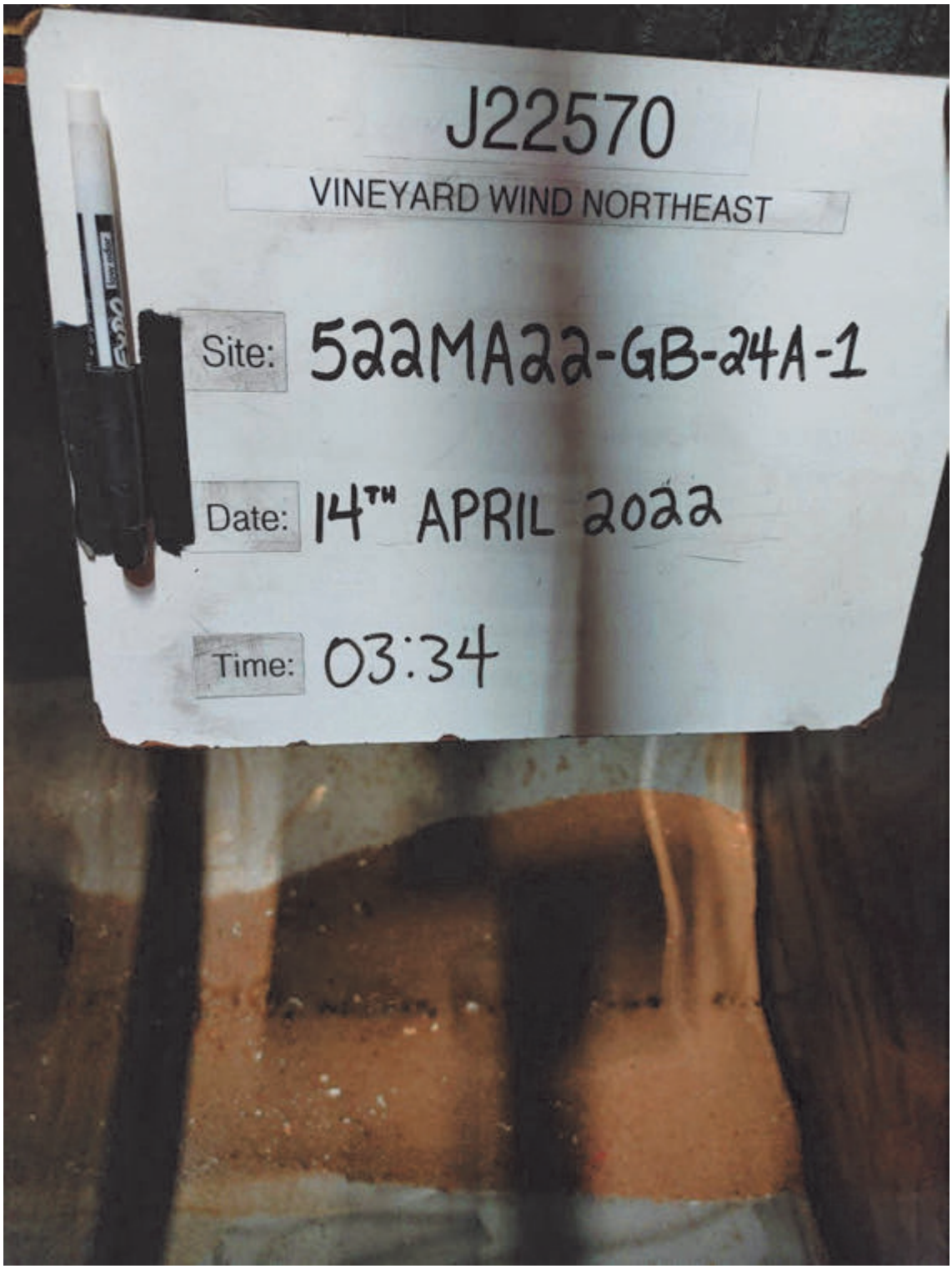

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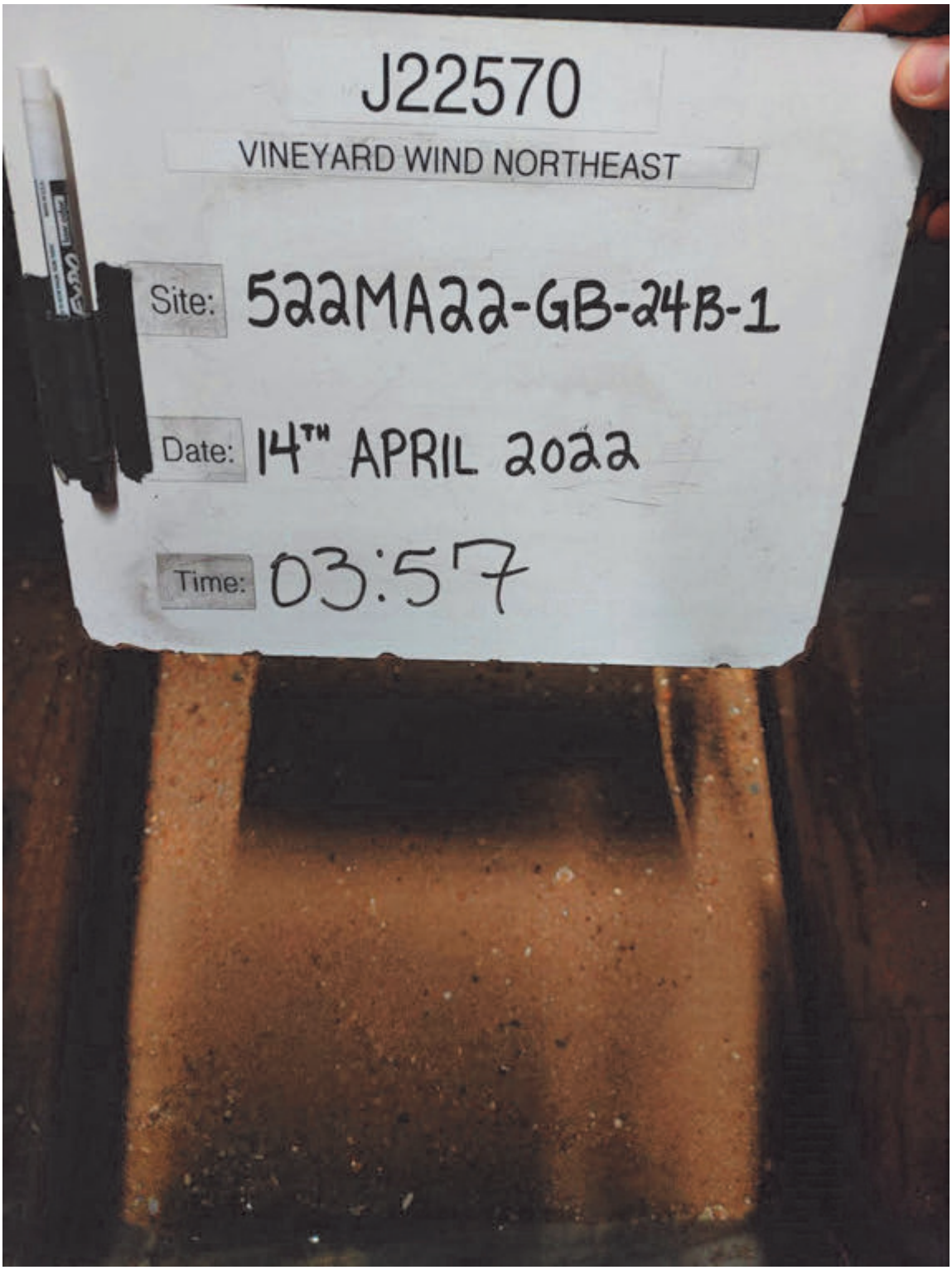

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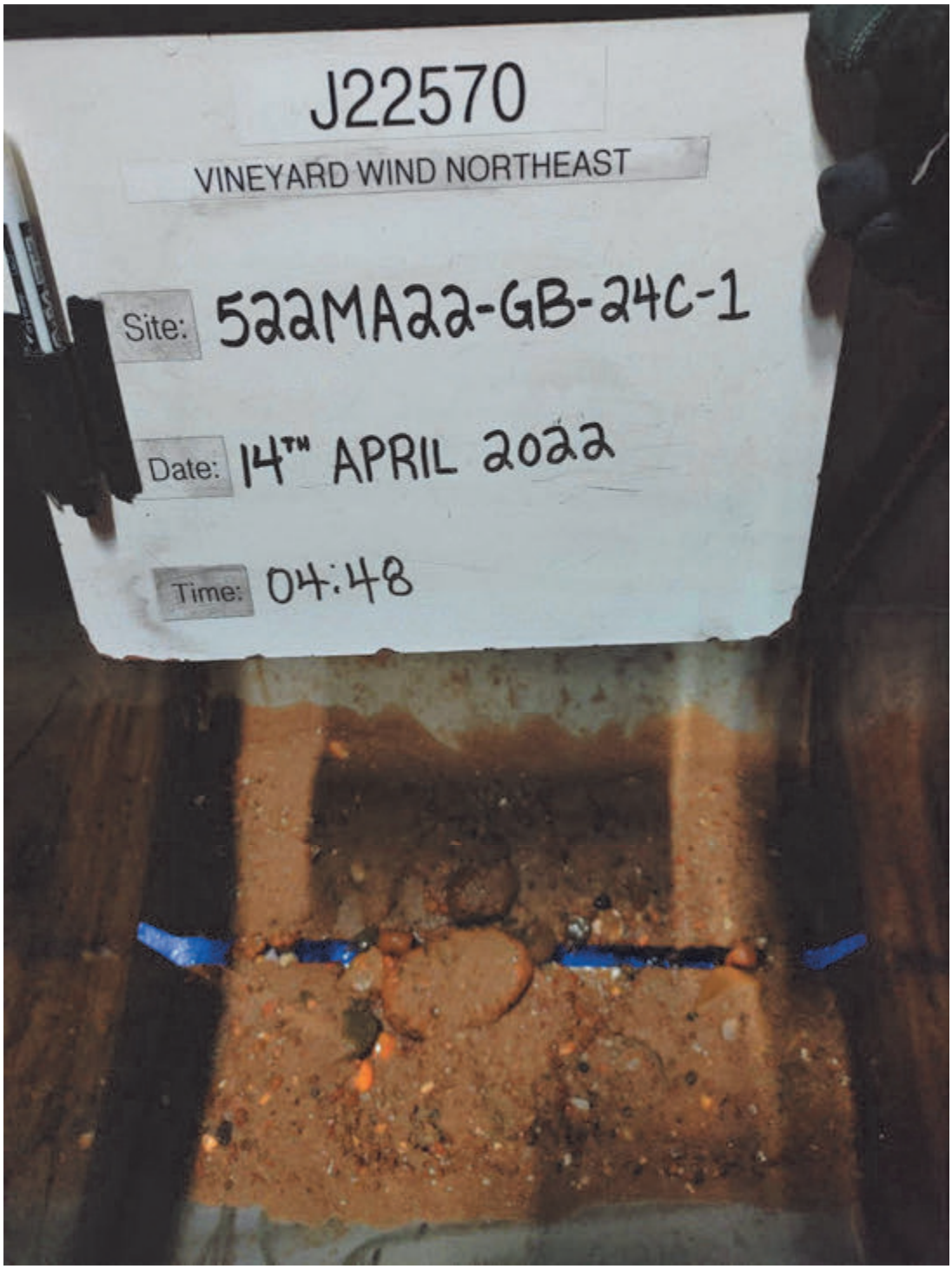

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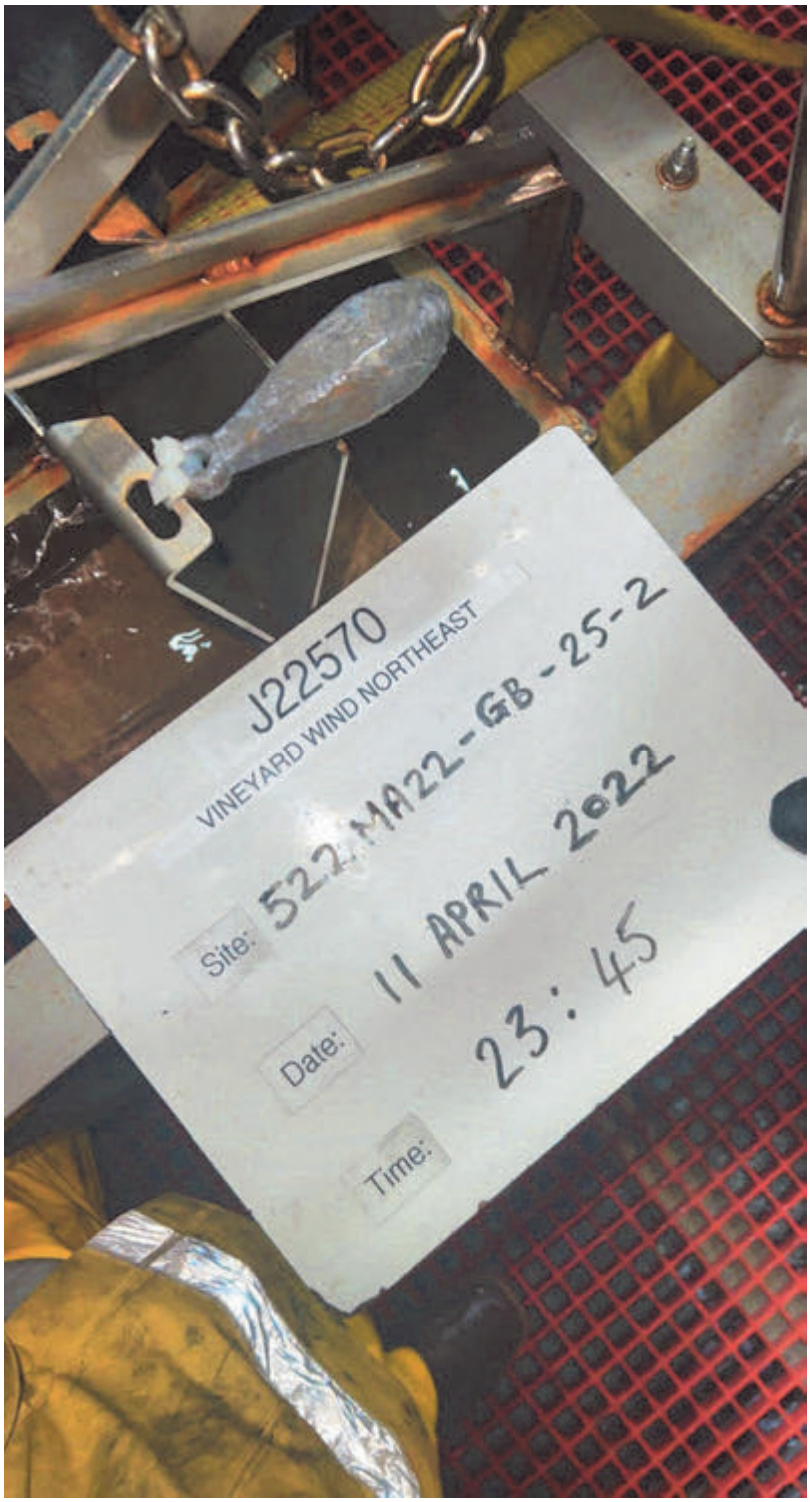

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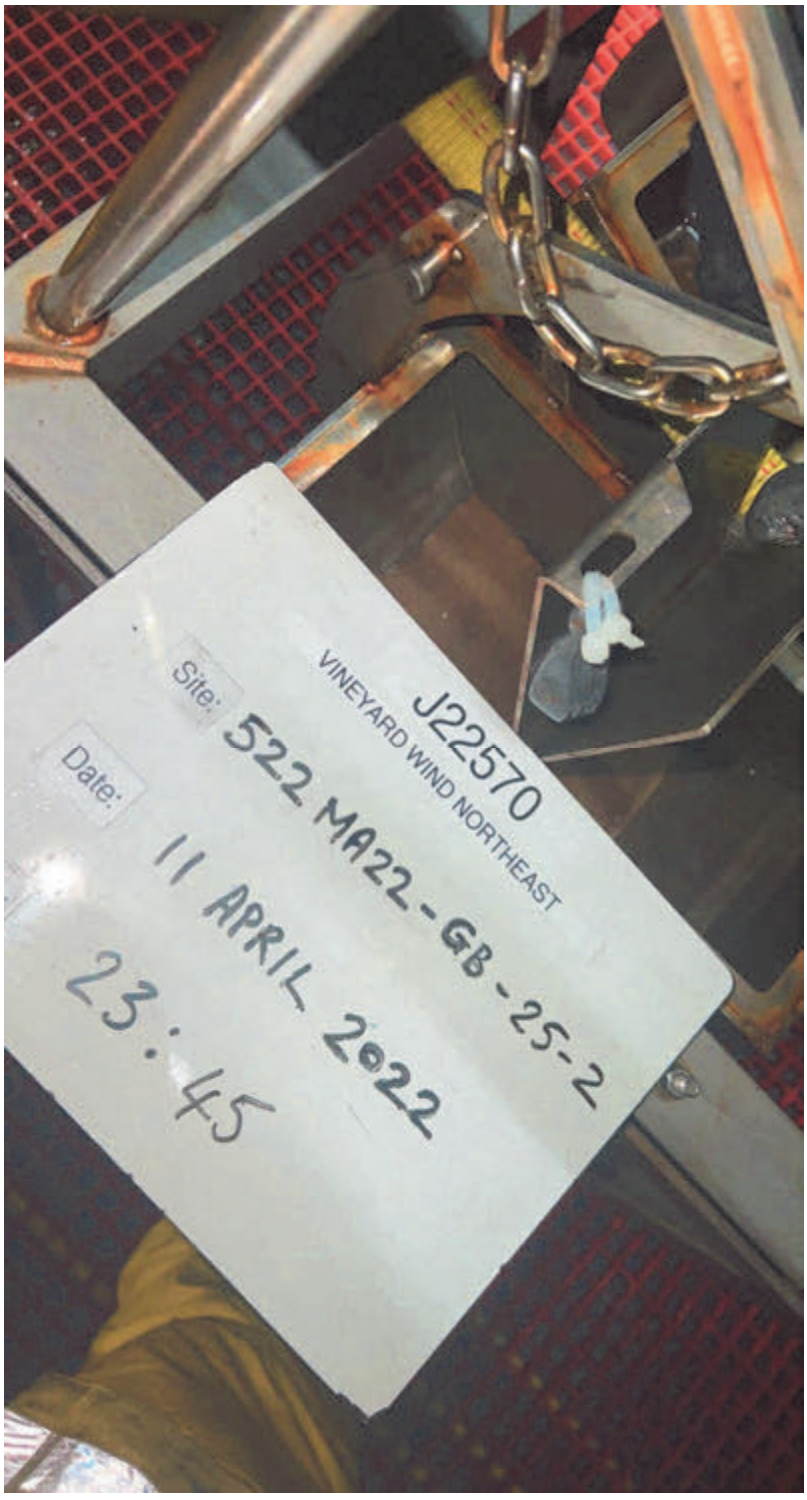

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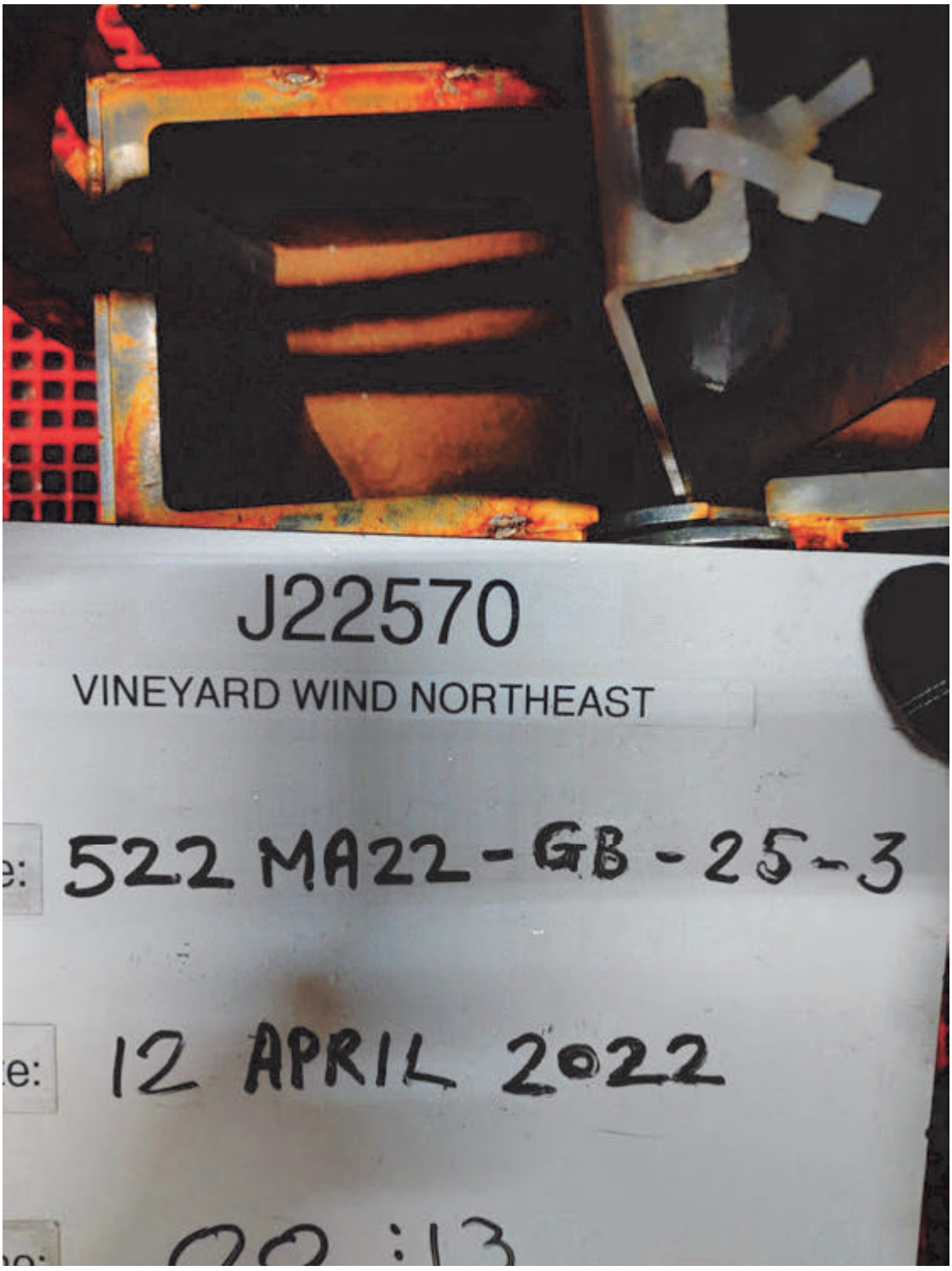

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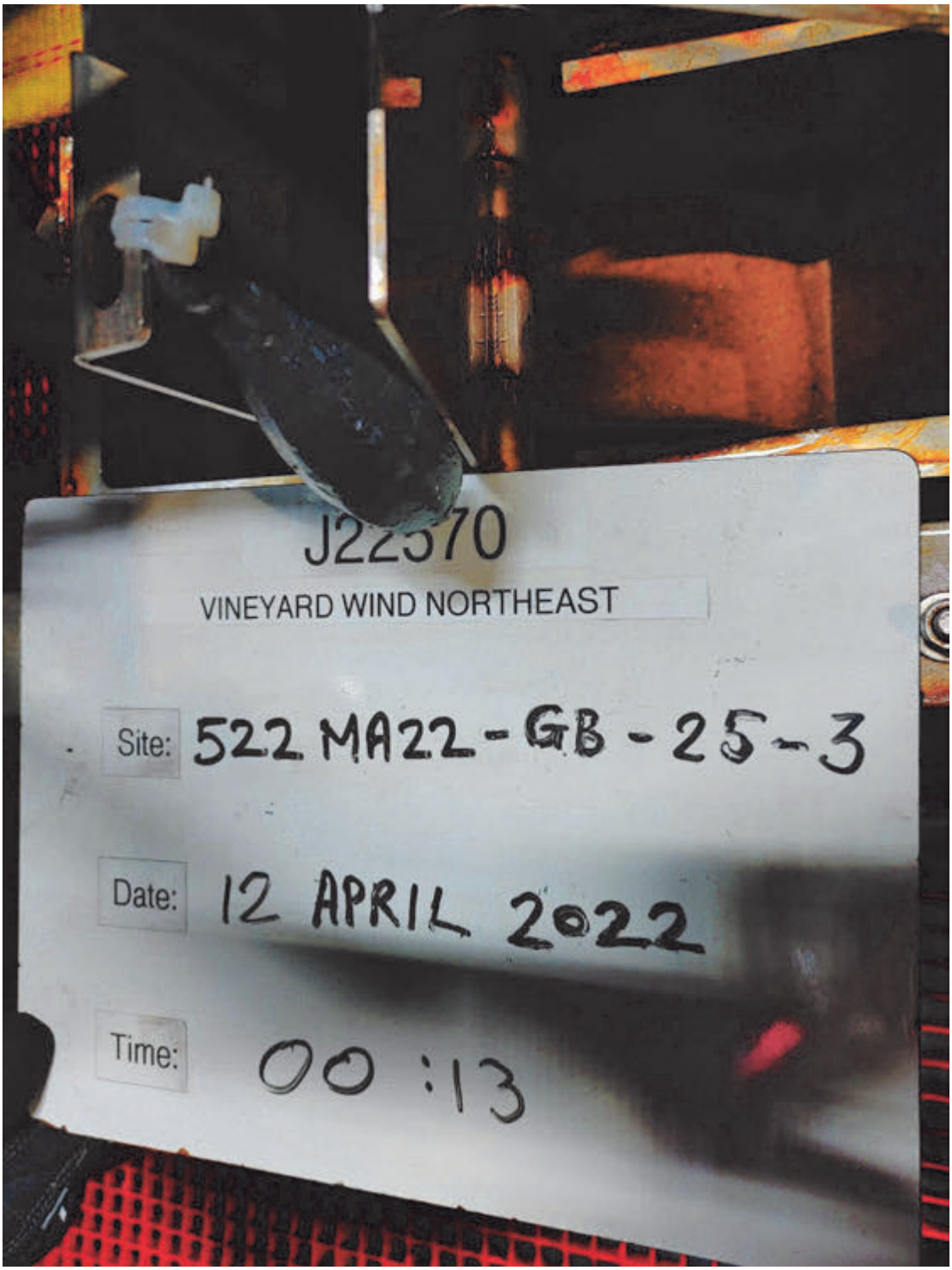

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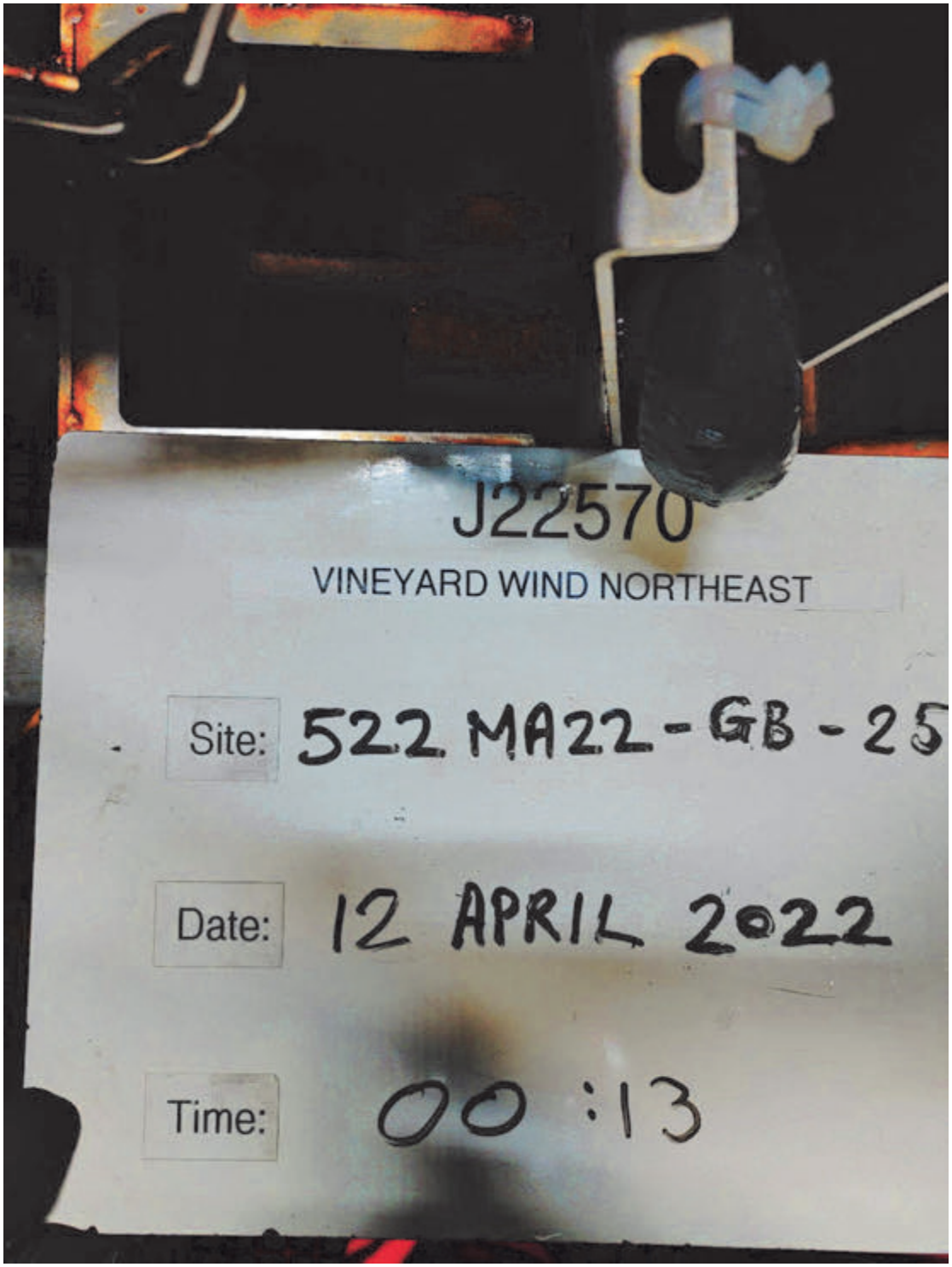

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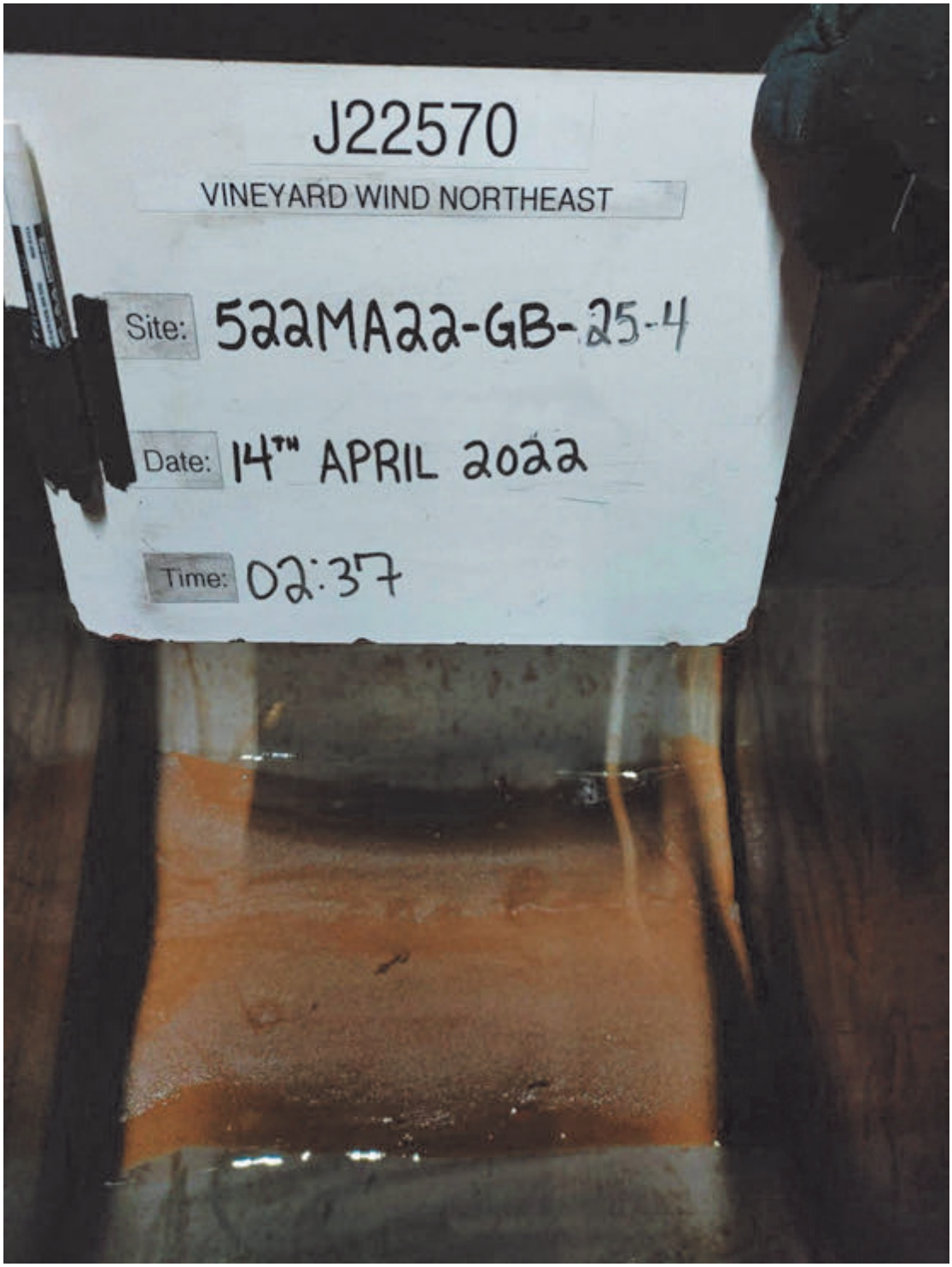

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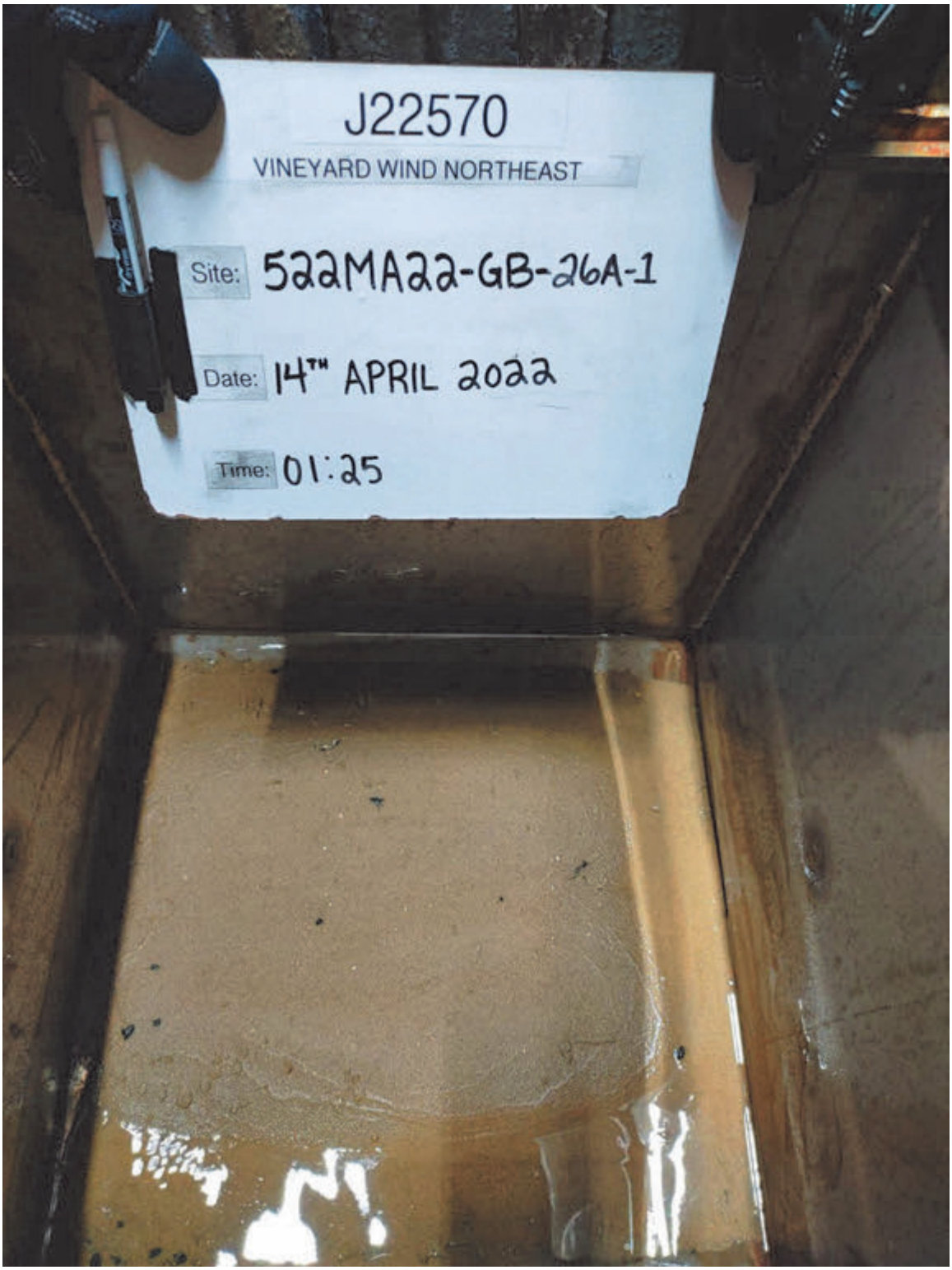

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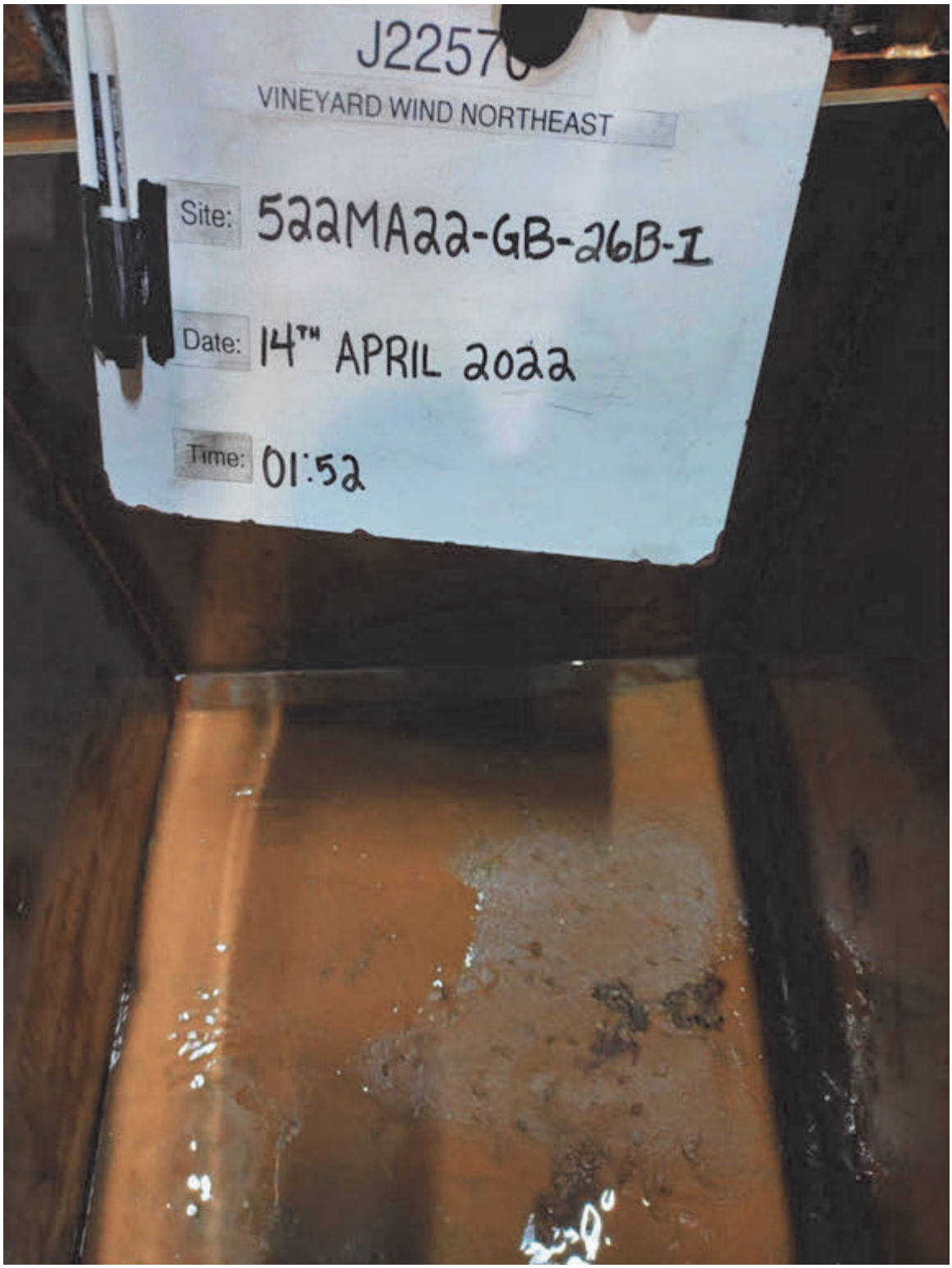

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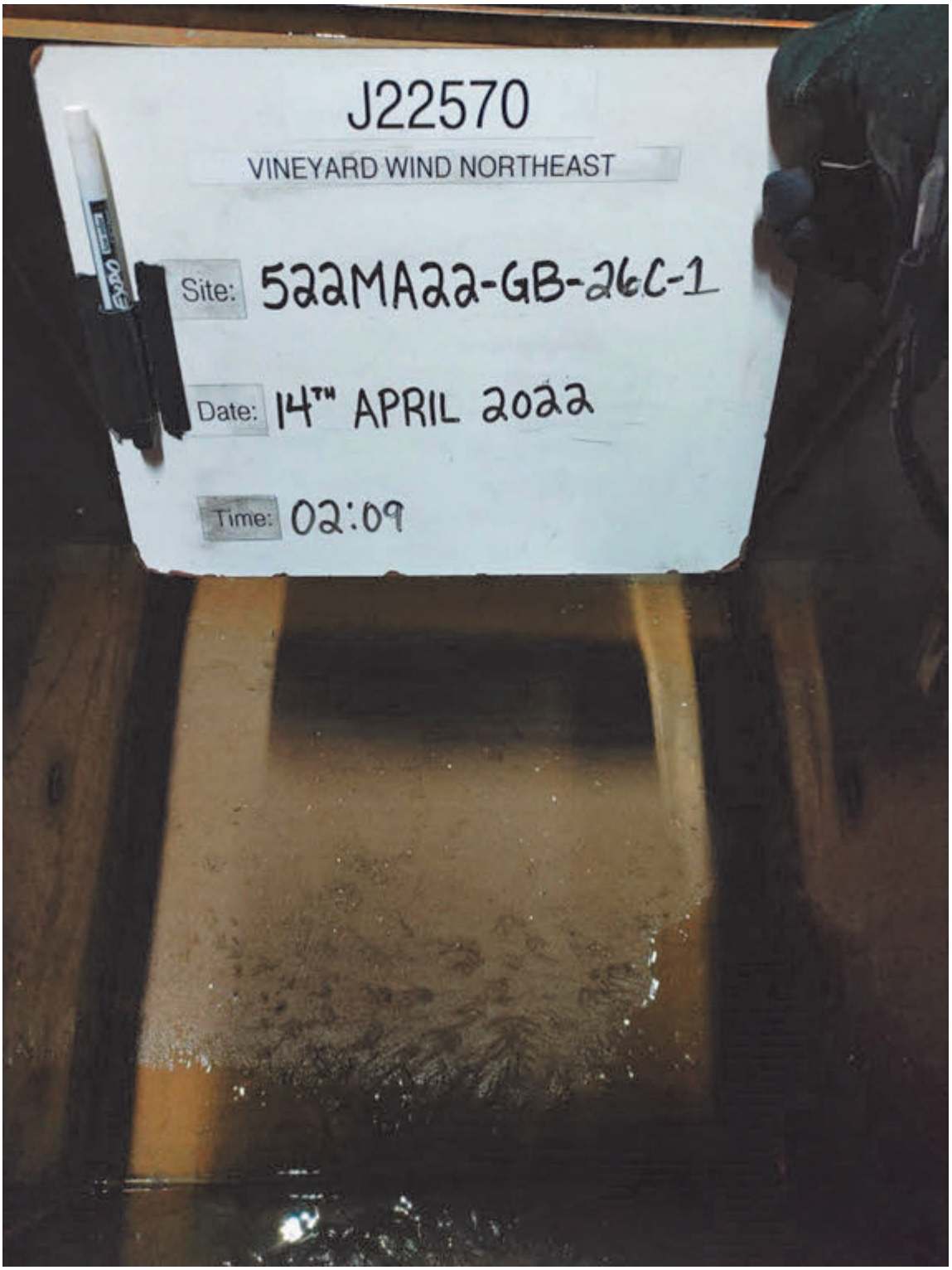

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Sample ID 522MA22-GB027-1

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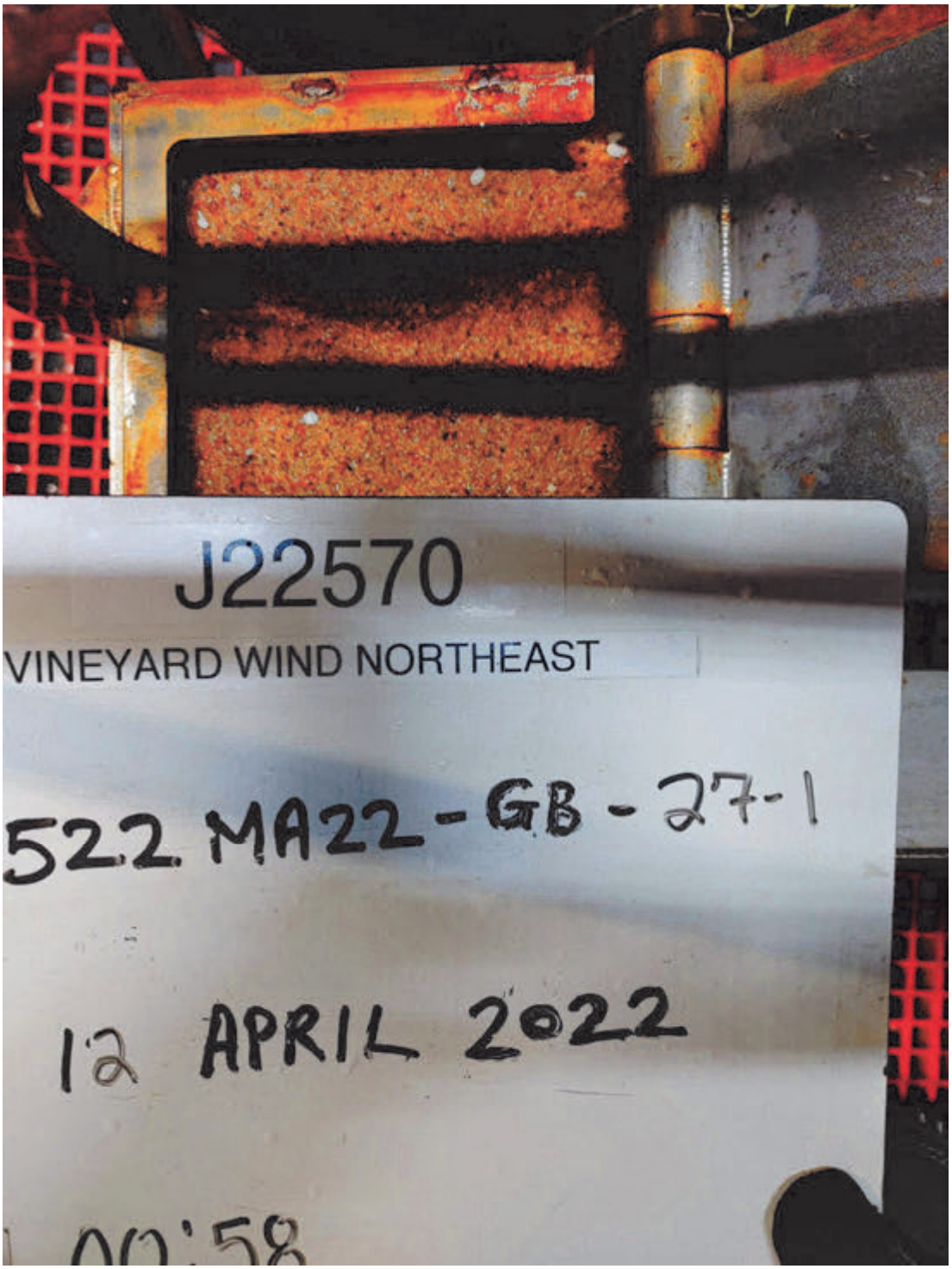

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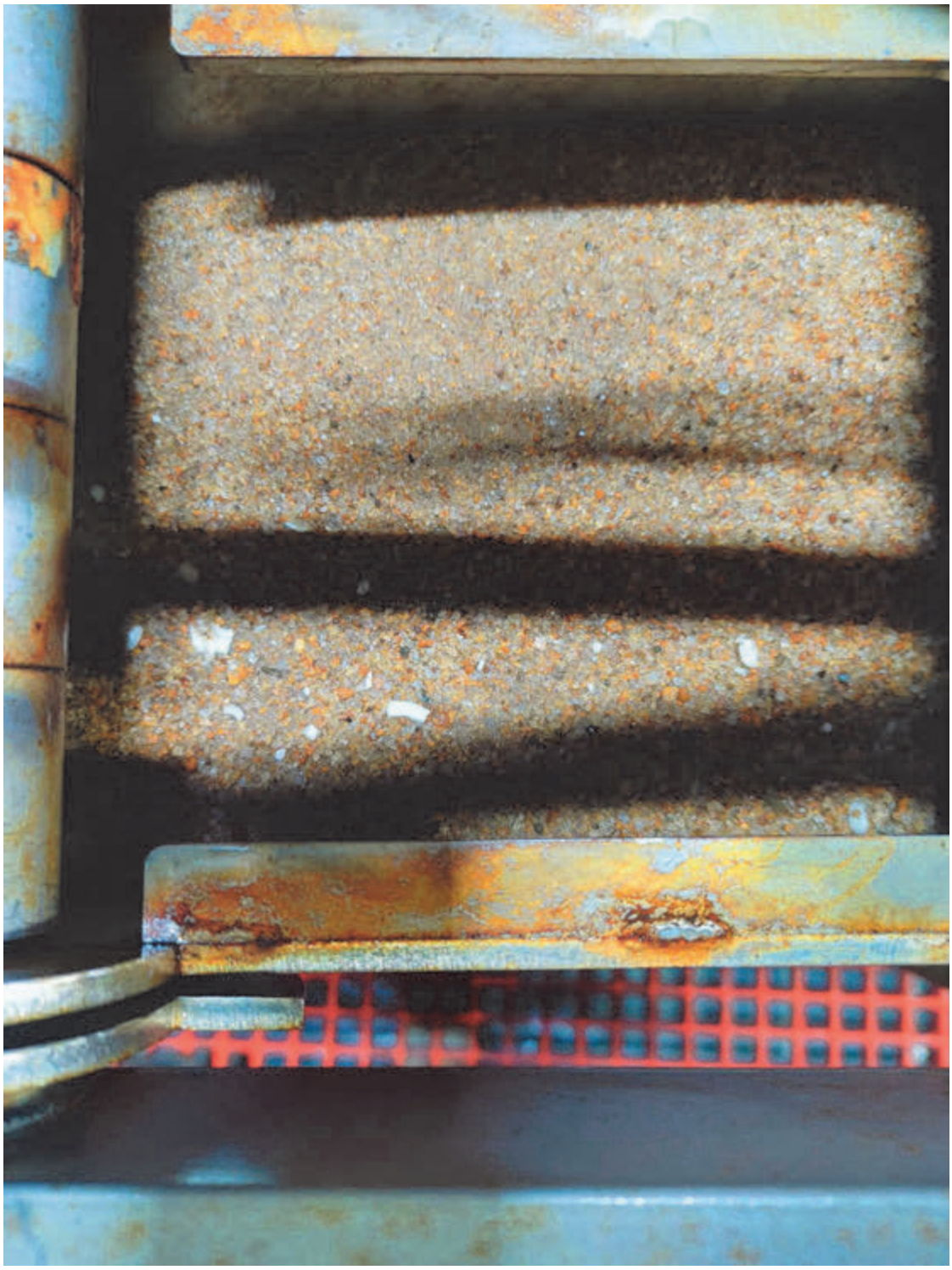

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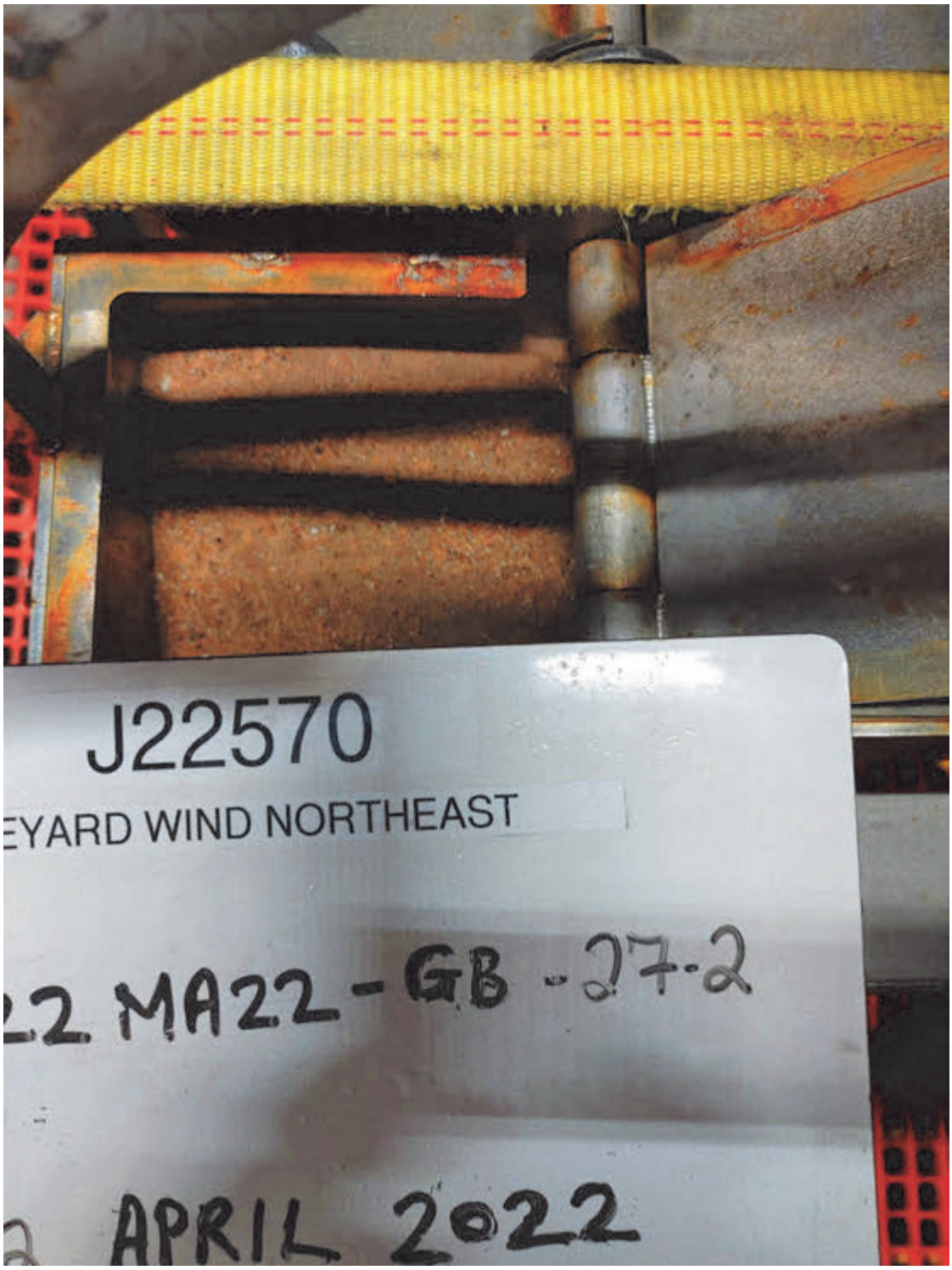

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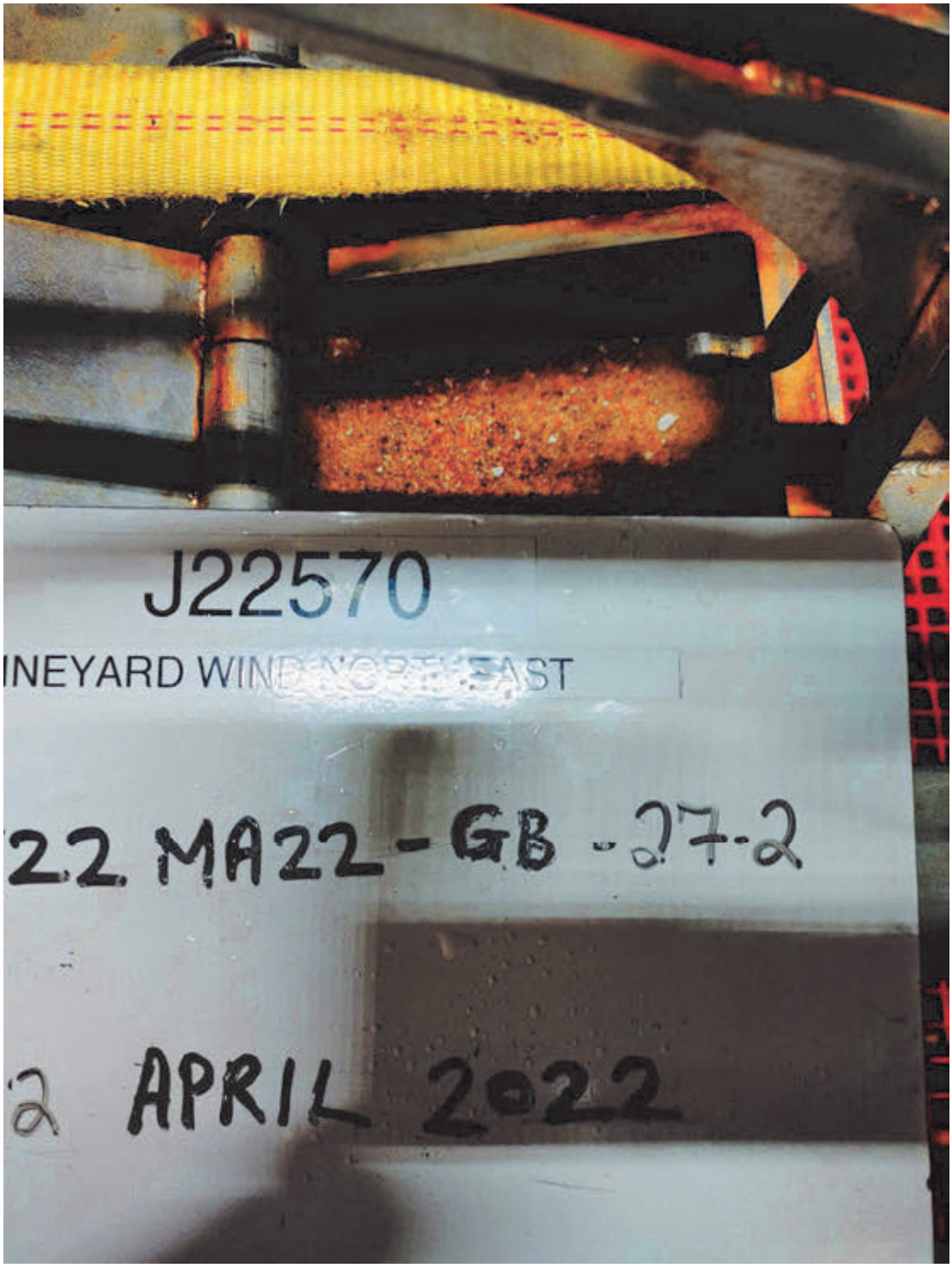

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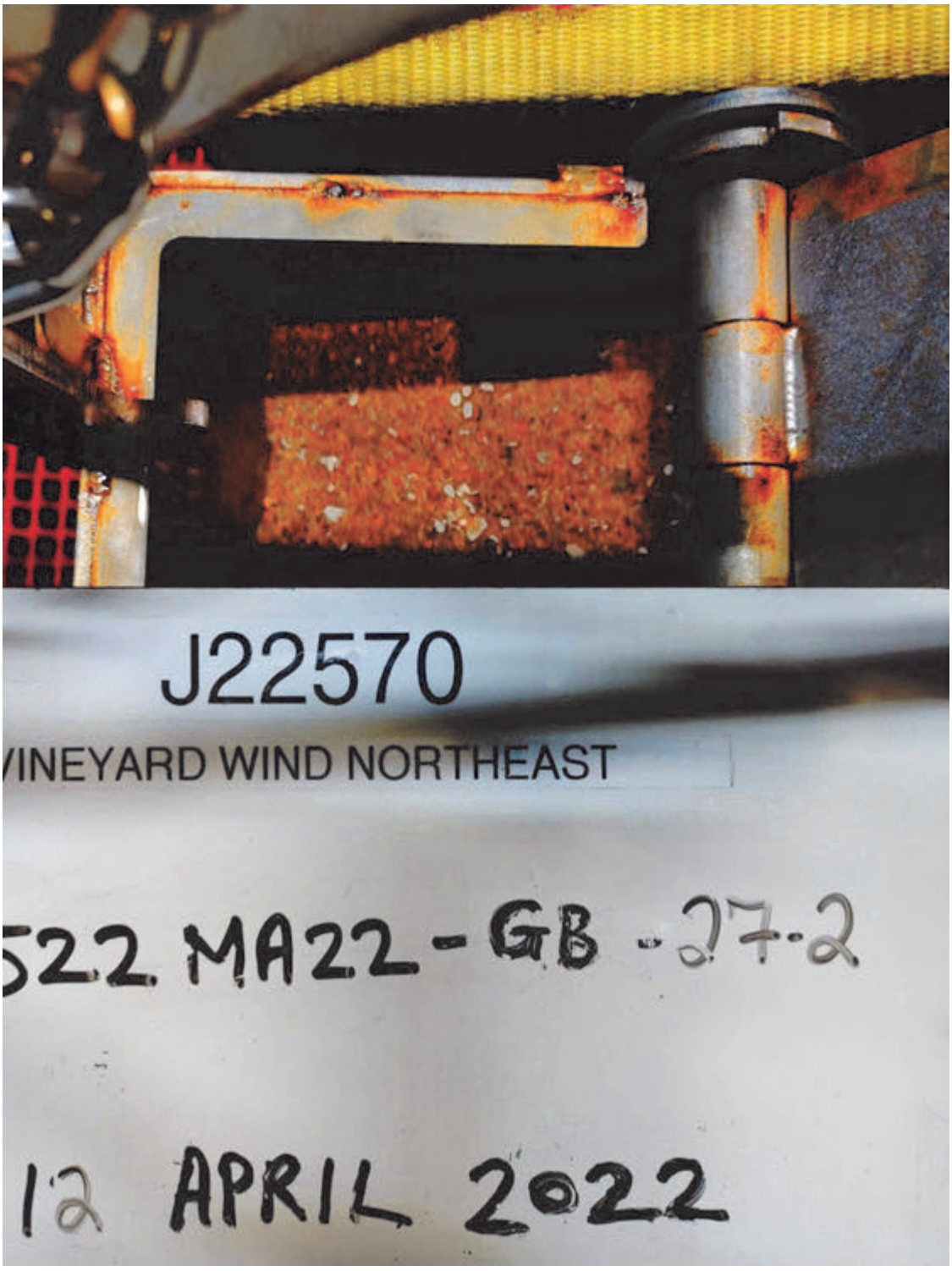

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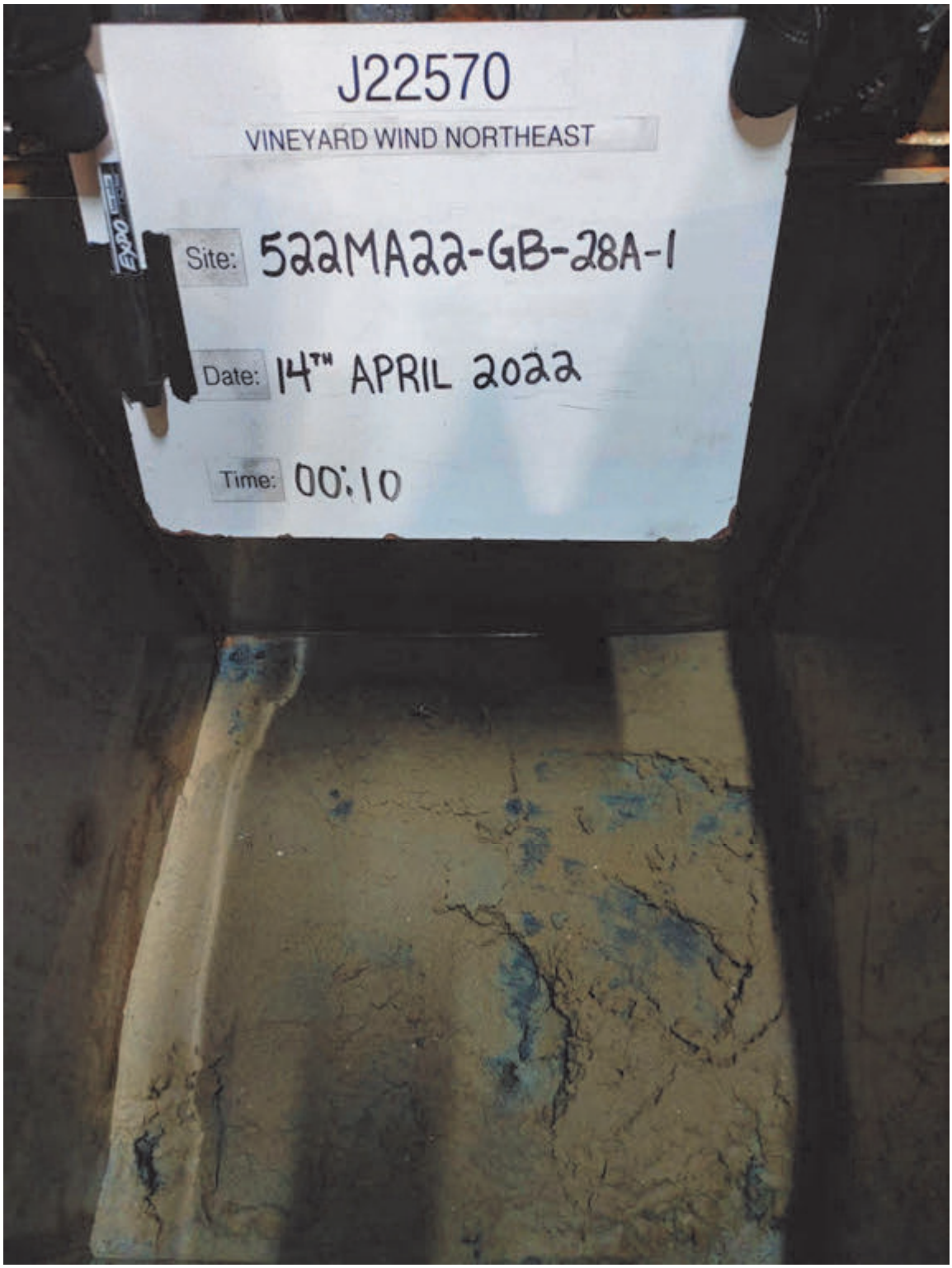

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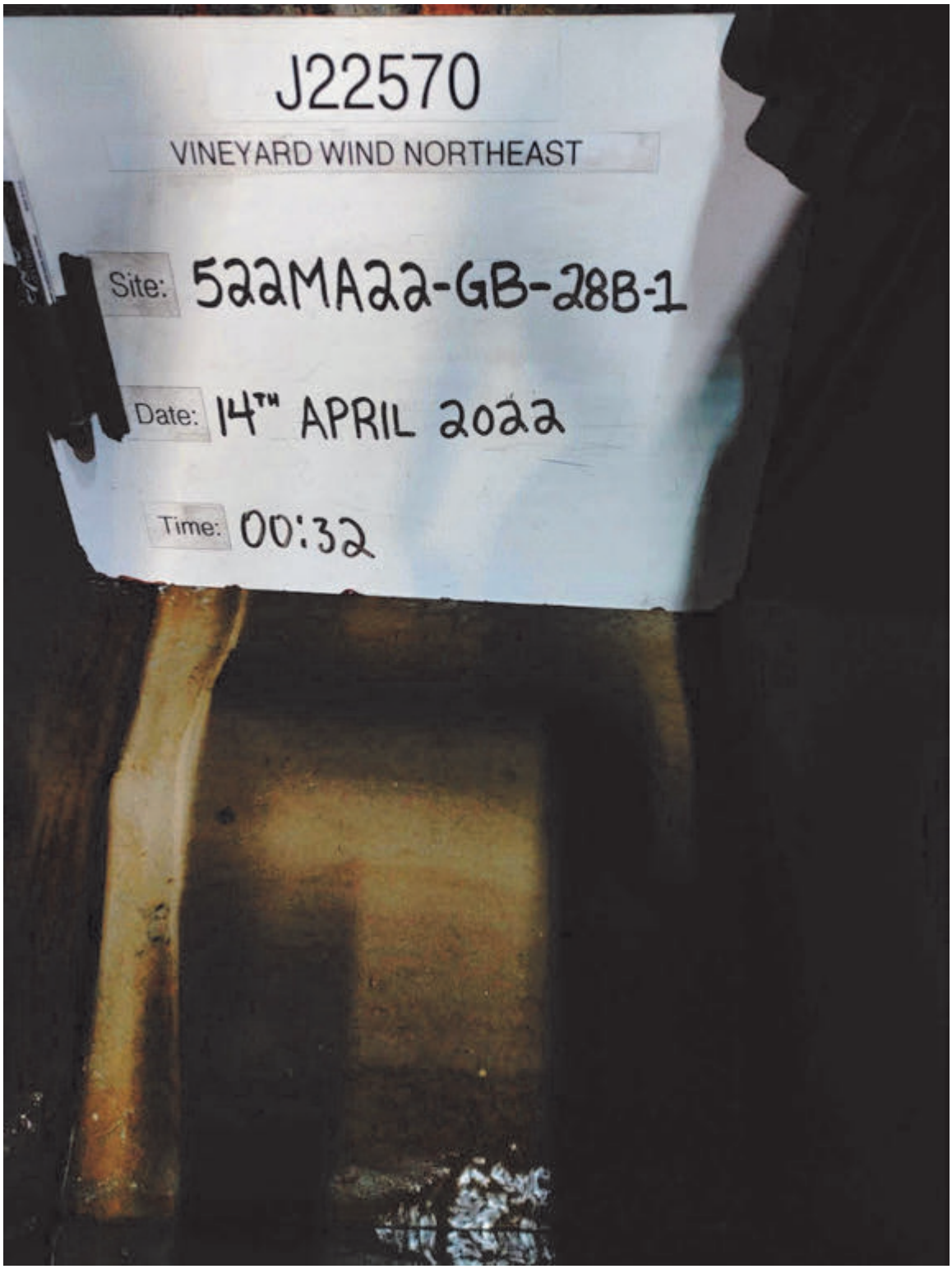

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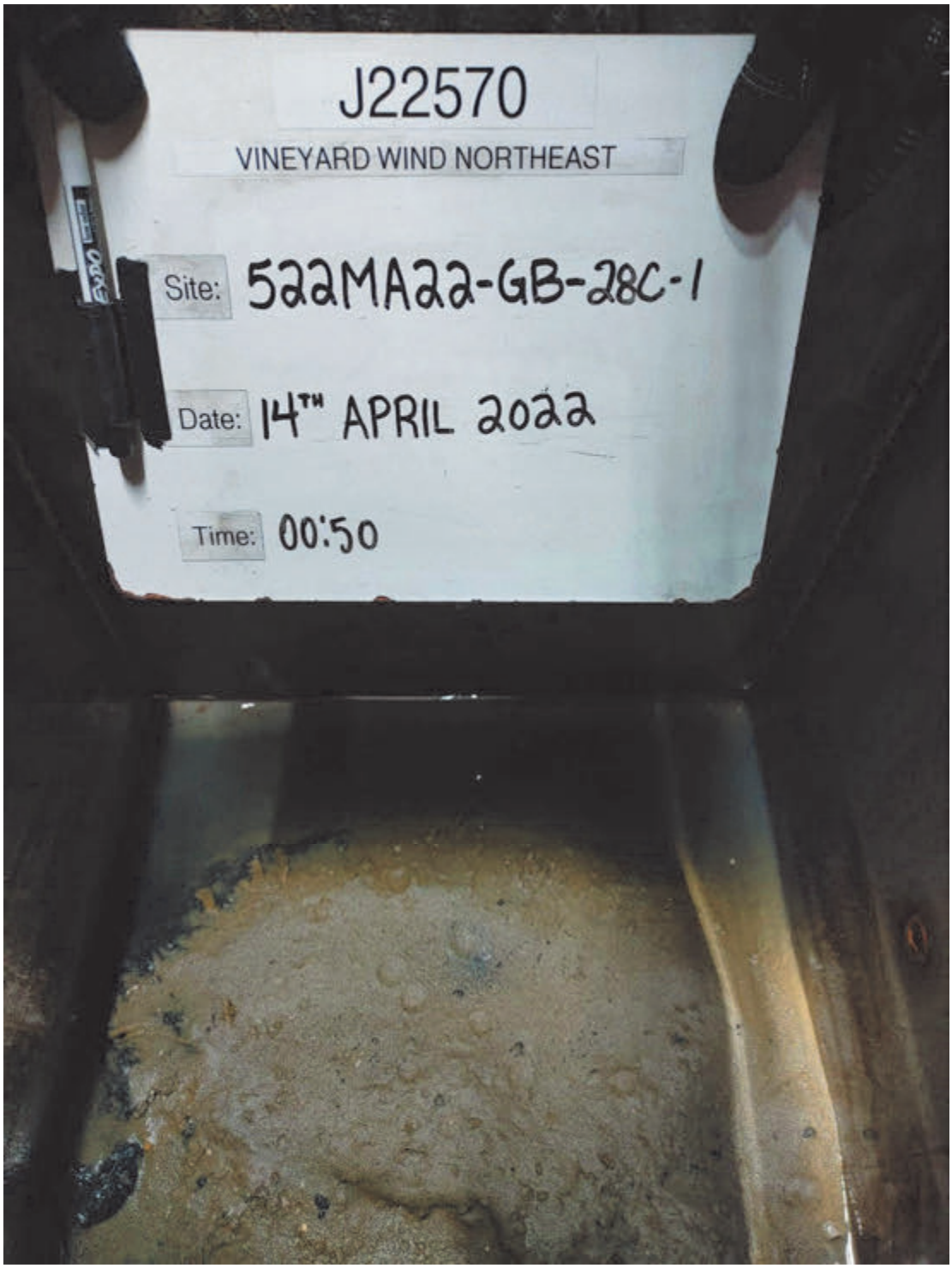

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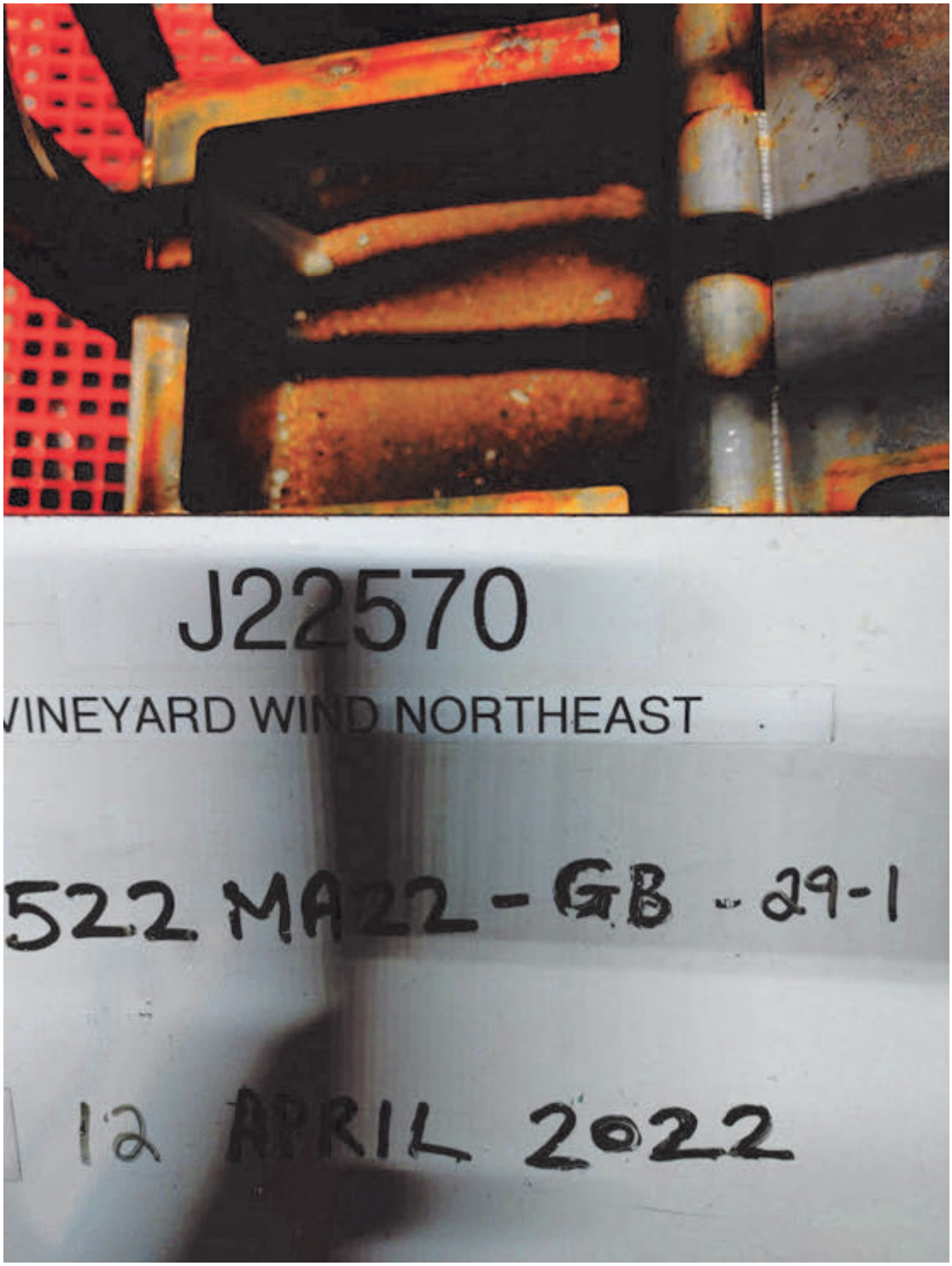

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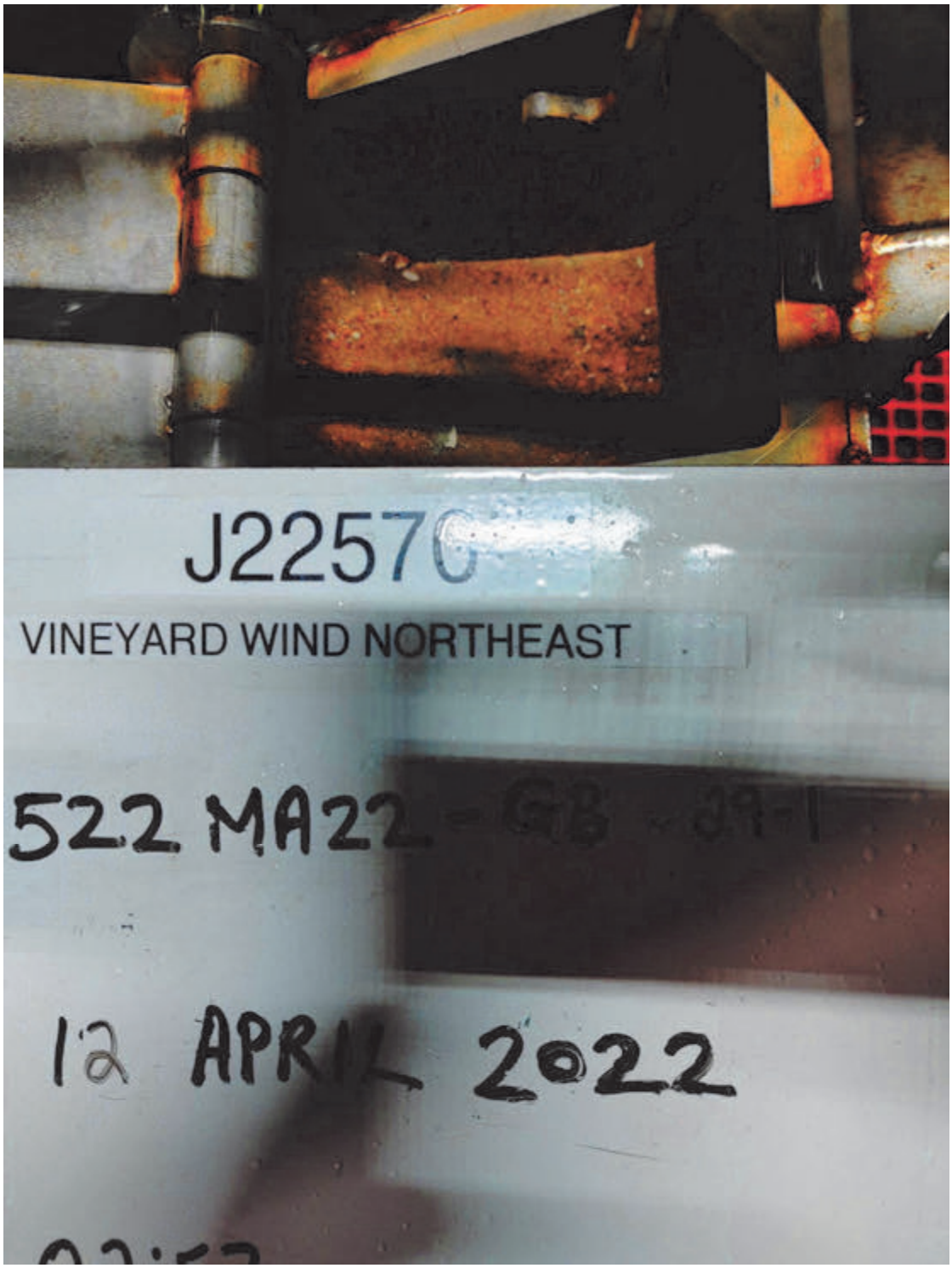

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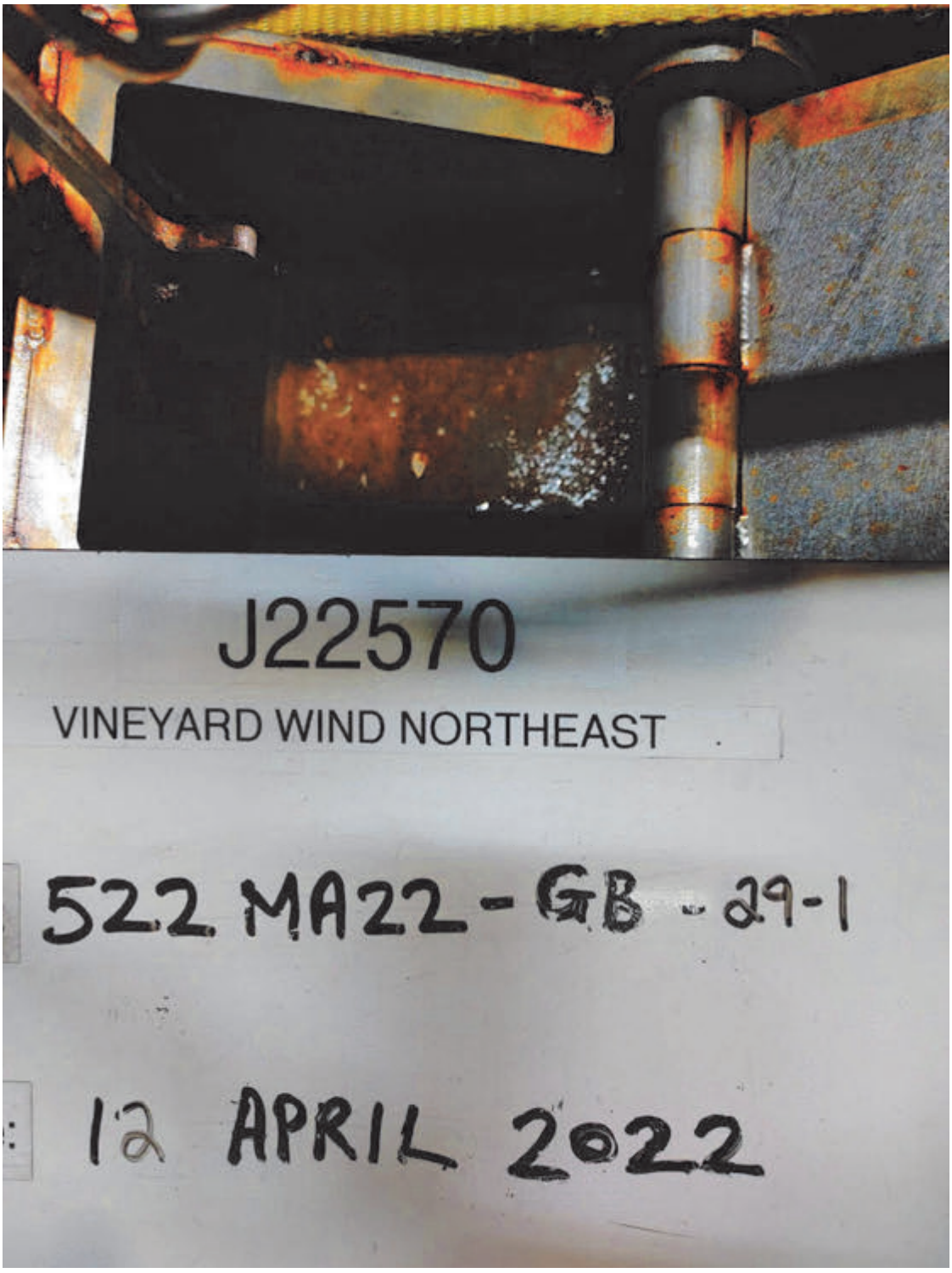

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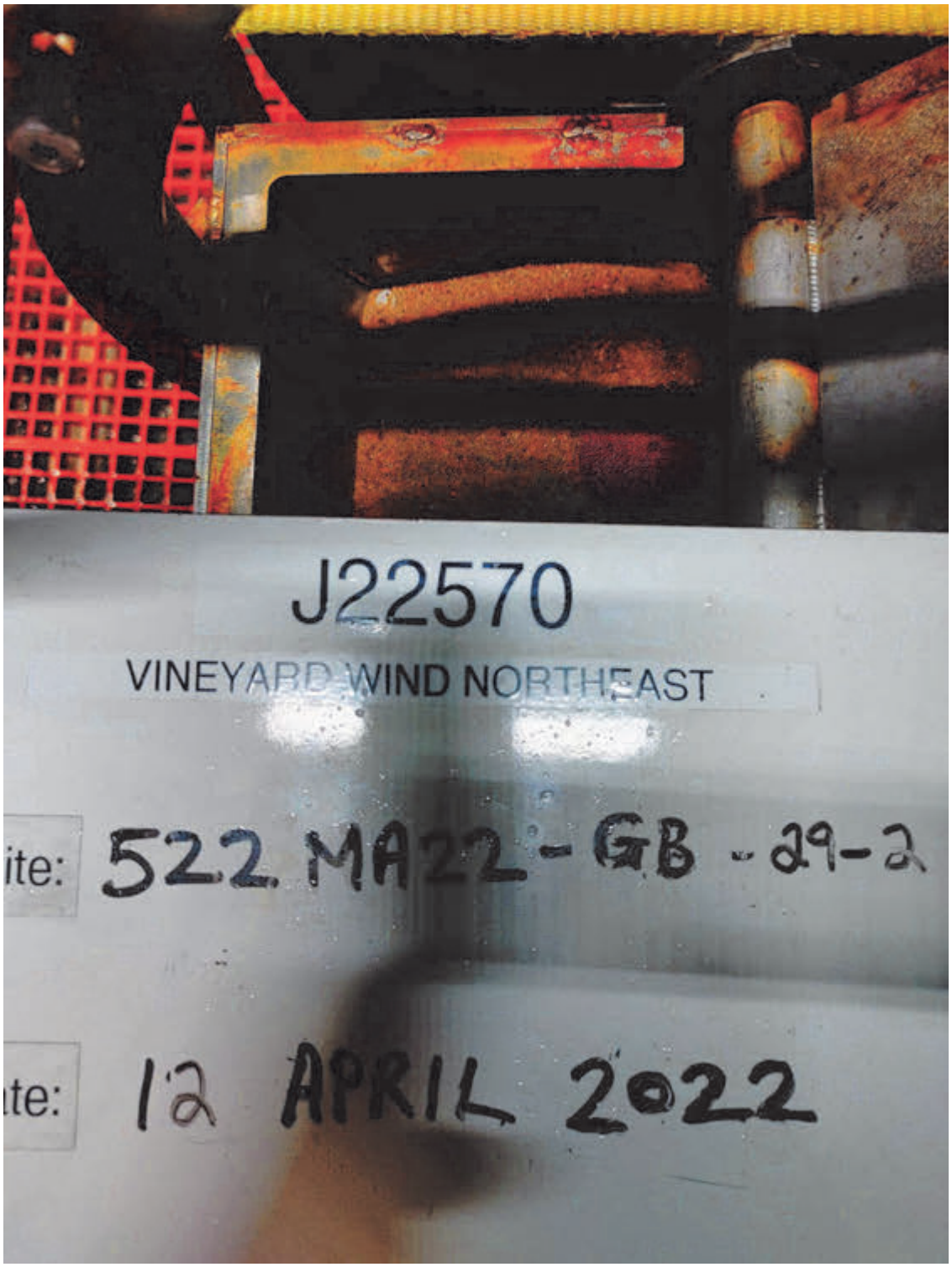

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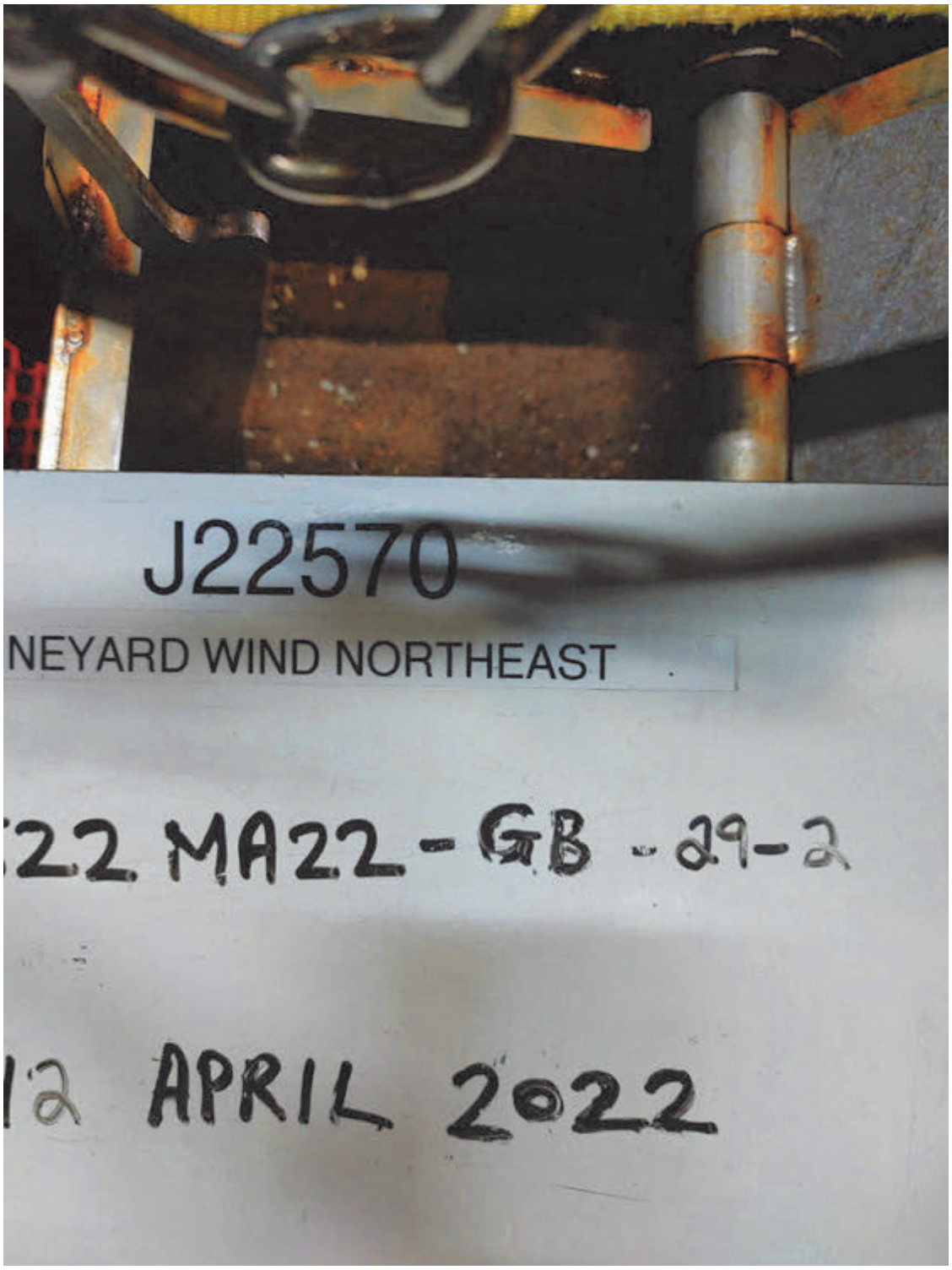

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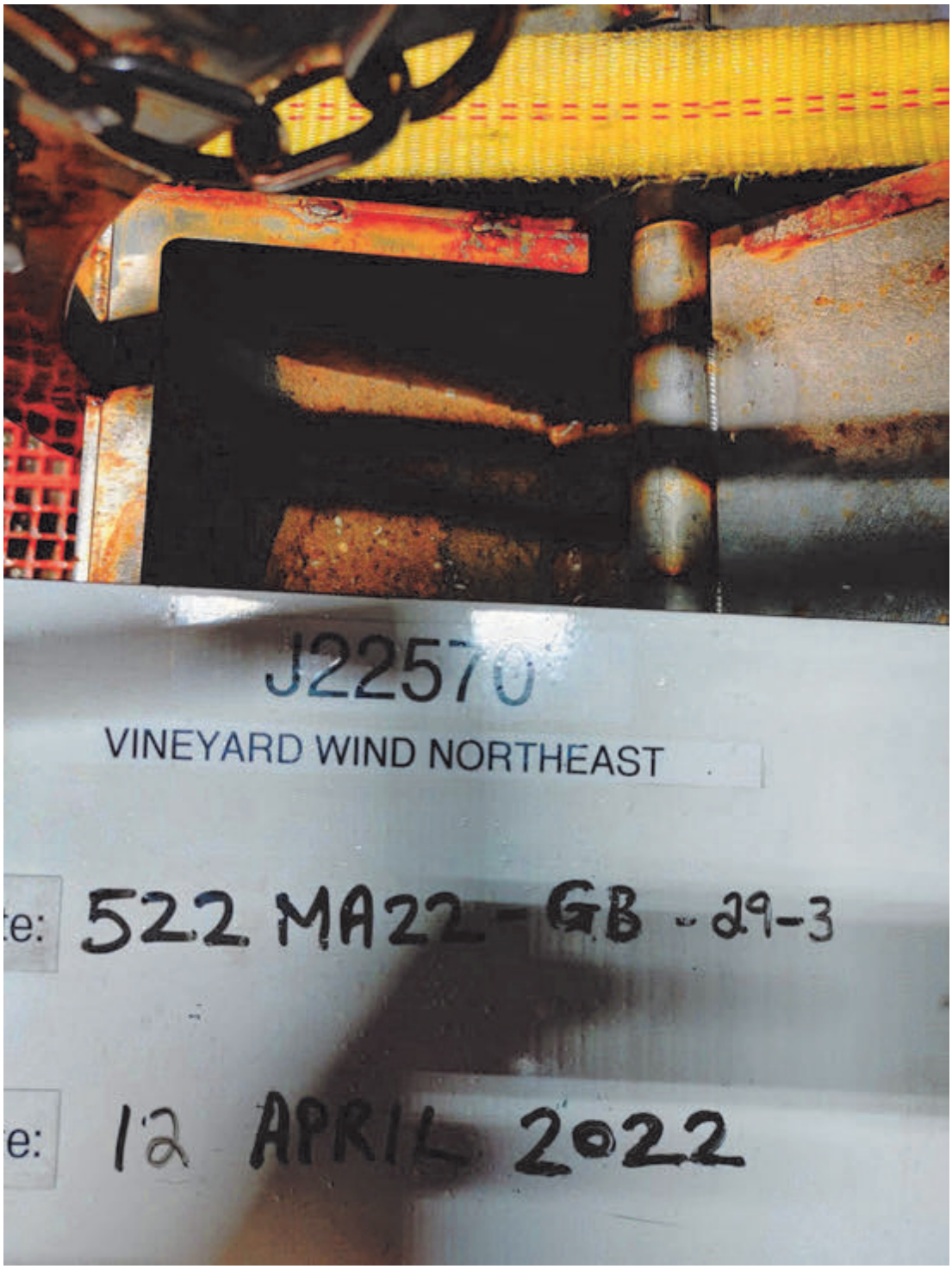

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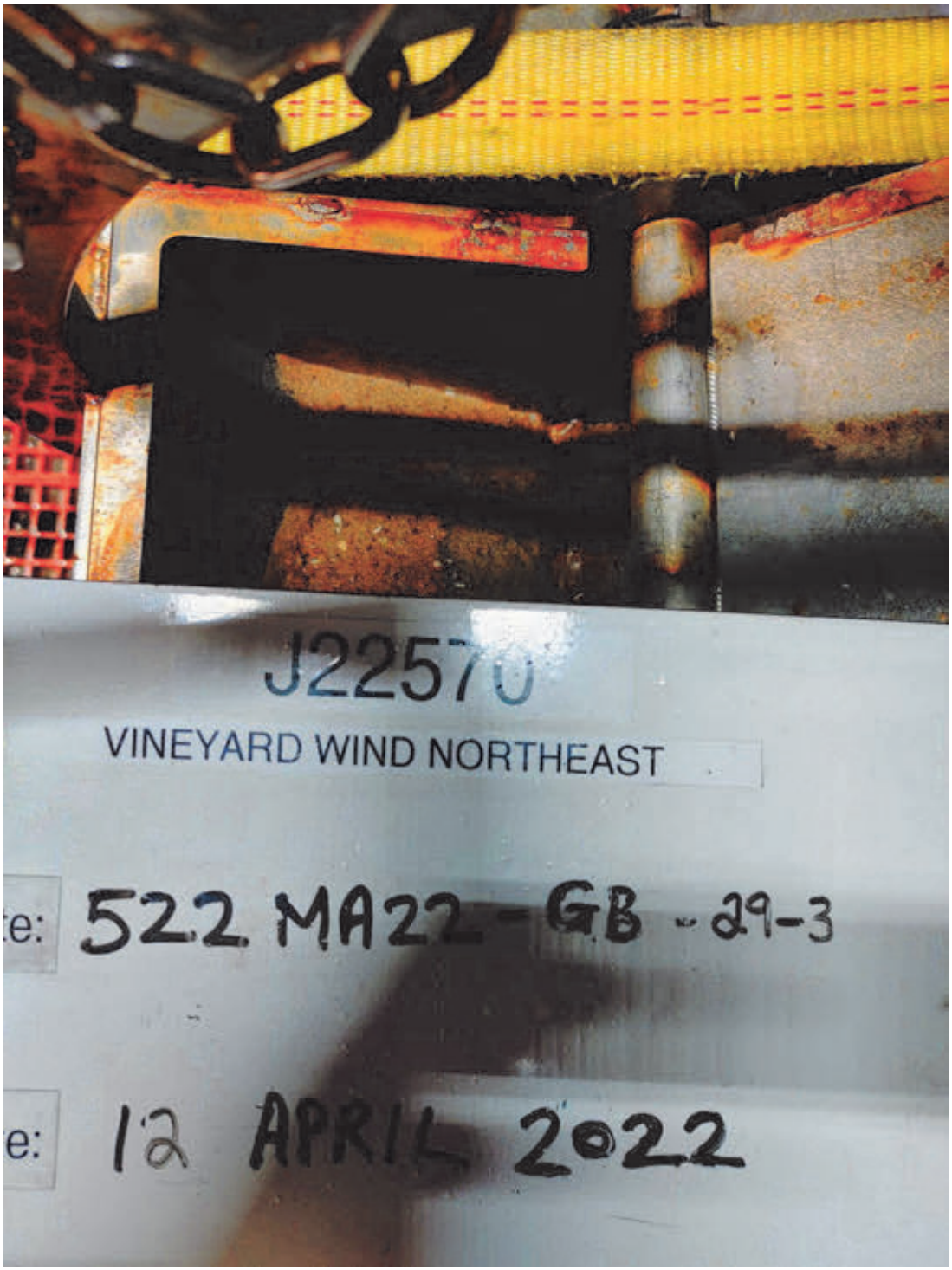

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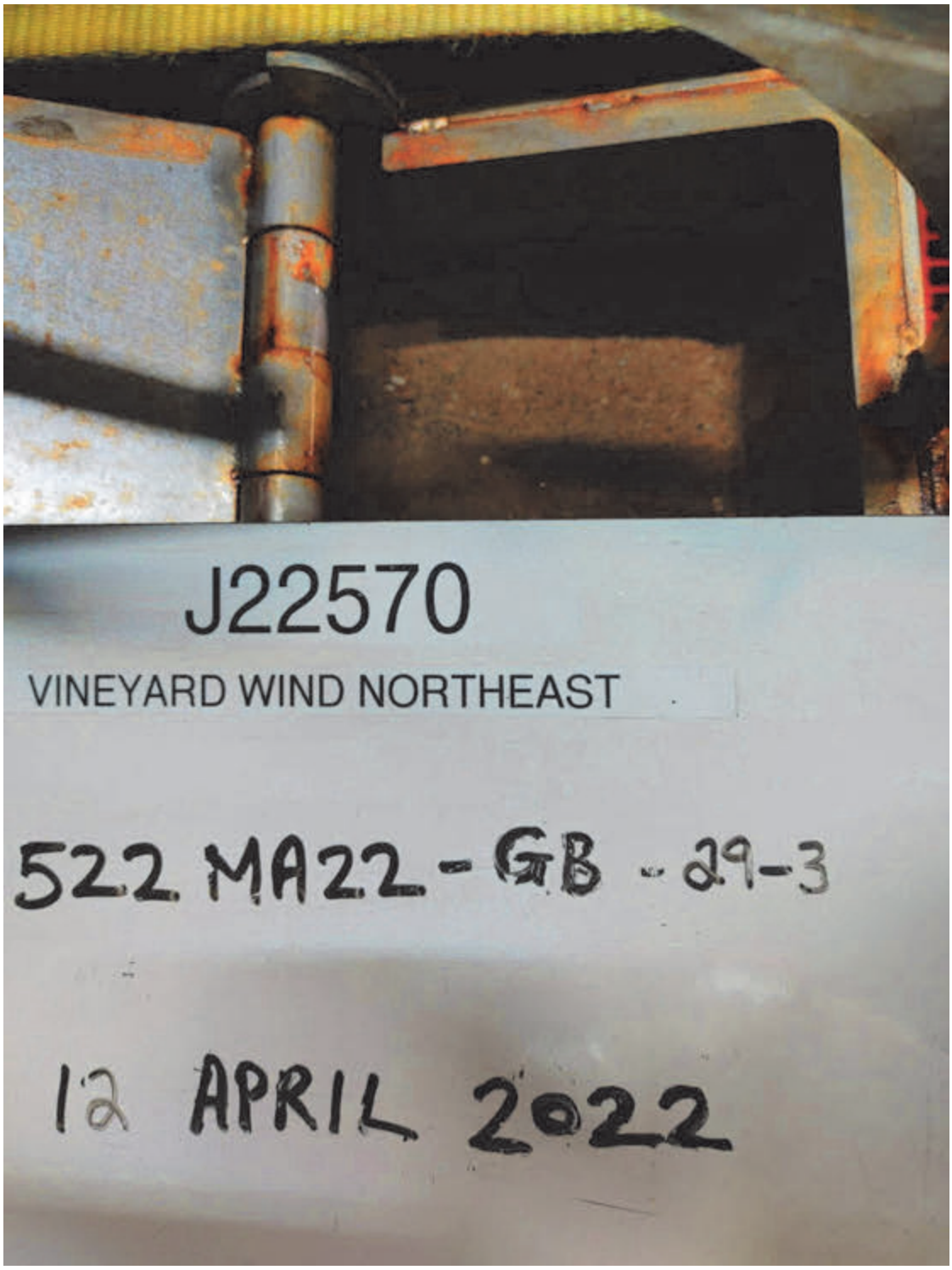

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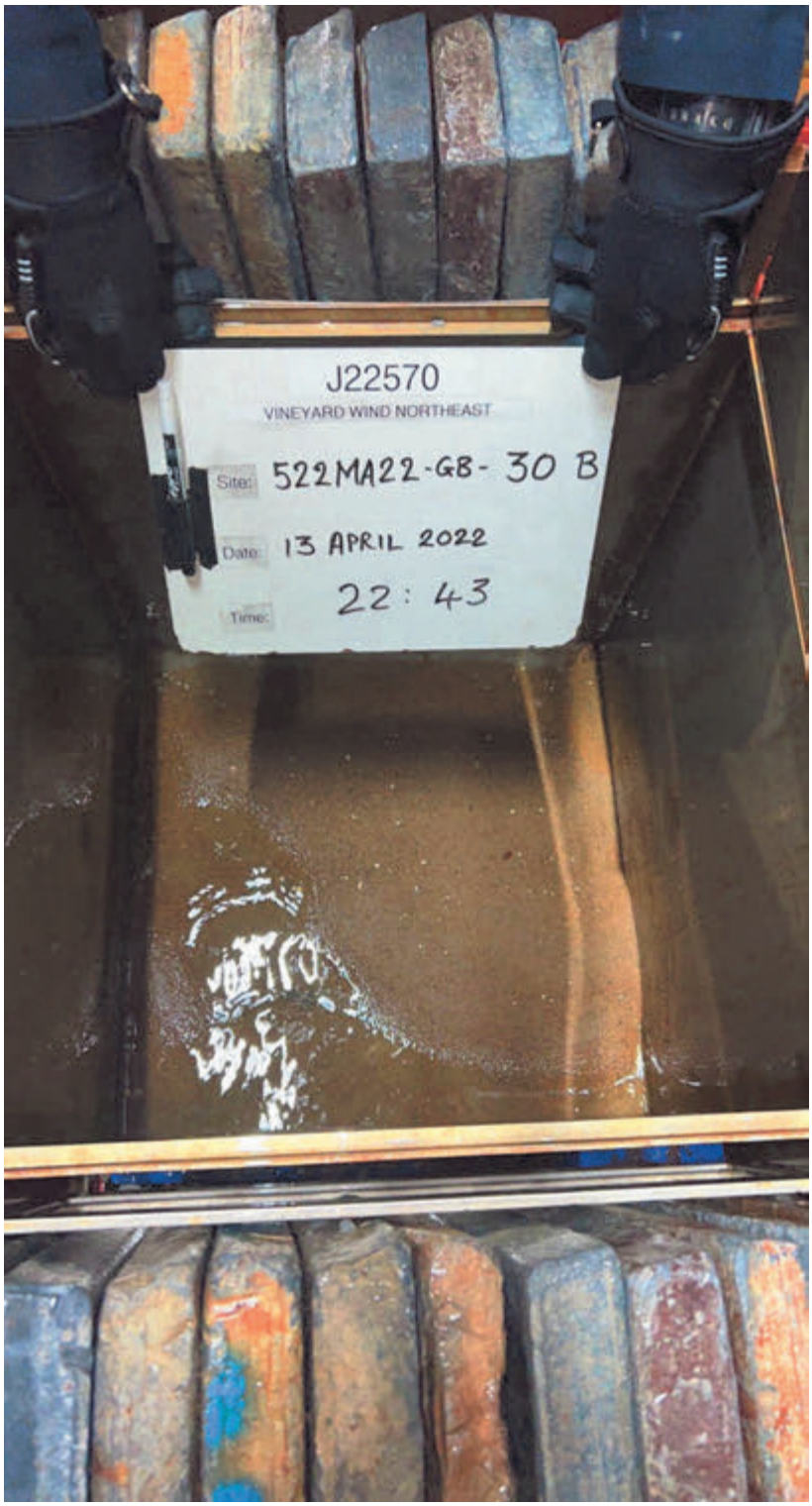

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PHOTO INFORMATION

Sample ID 522MA22-GB031-1

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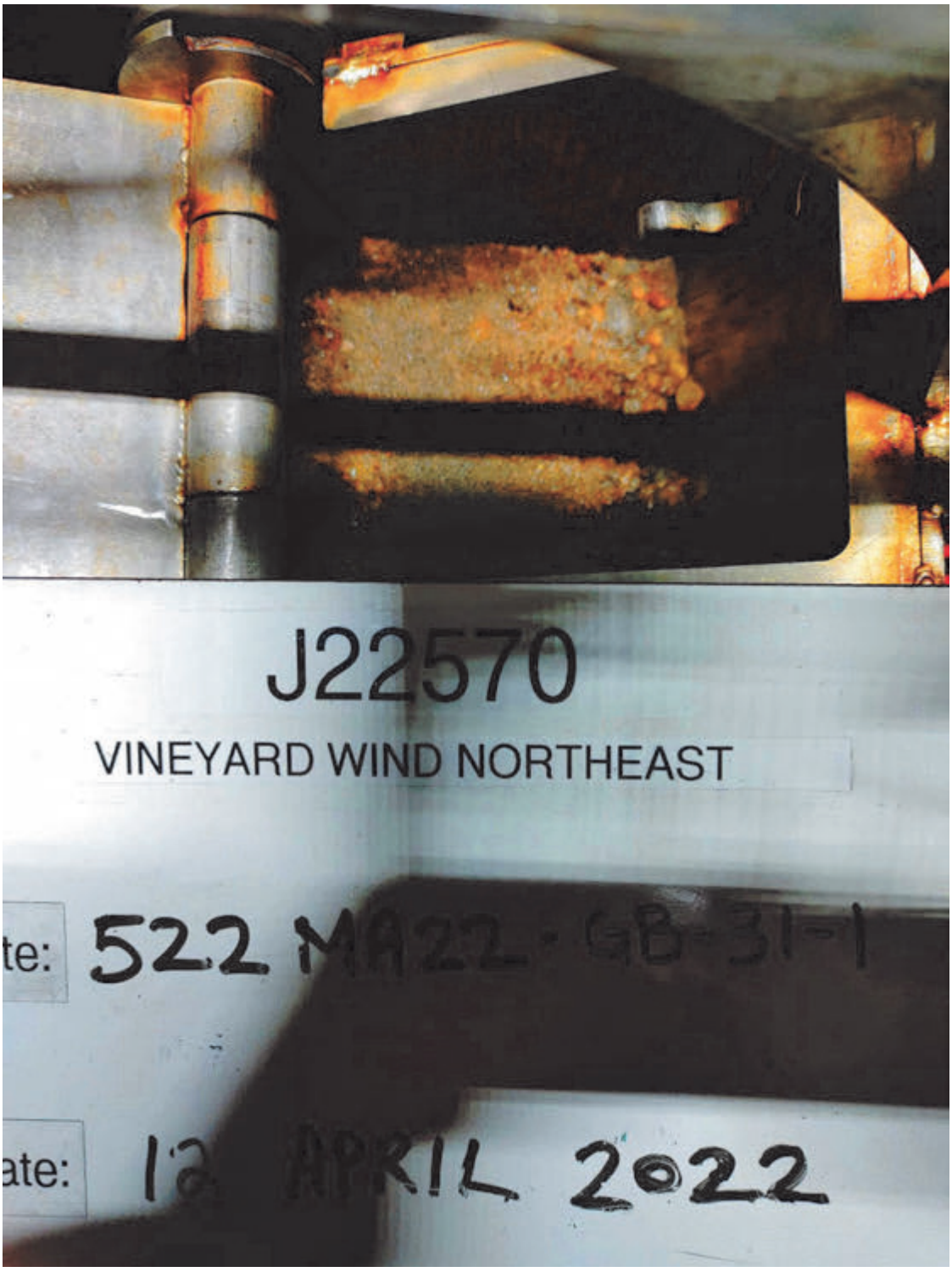

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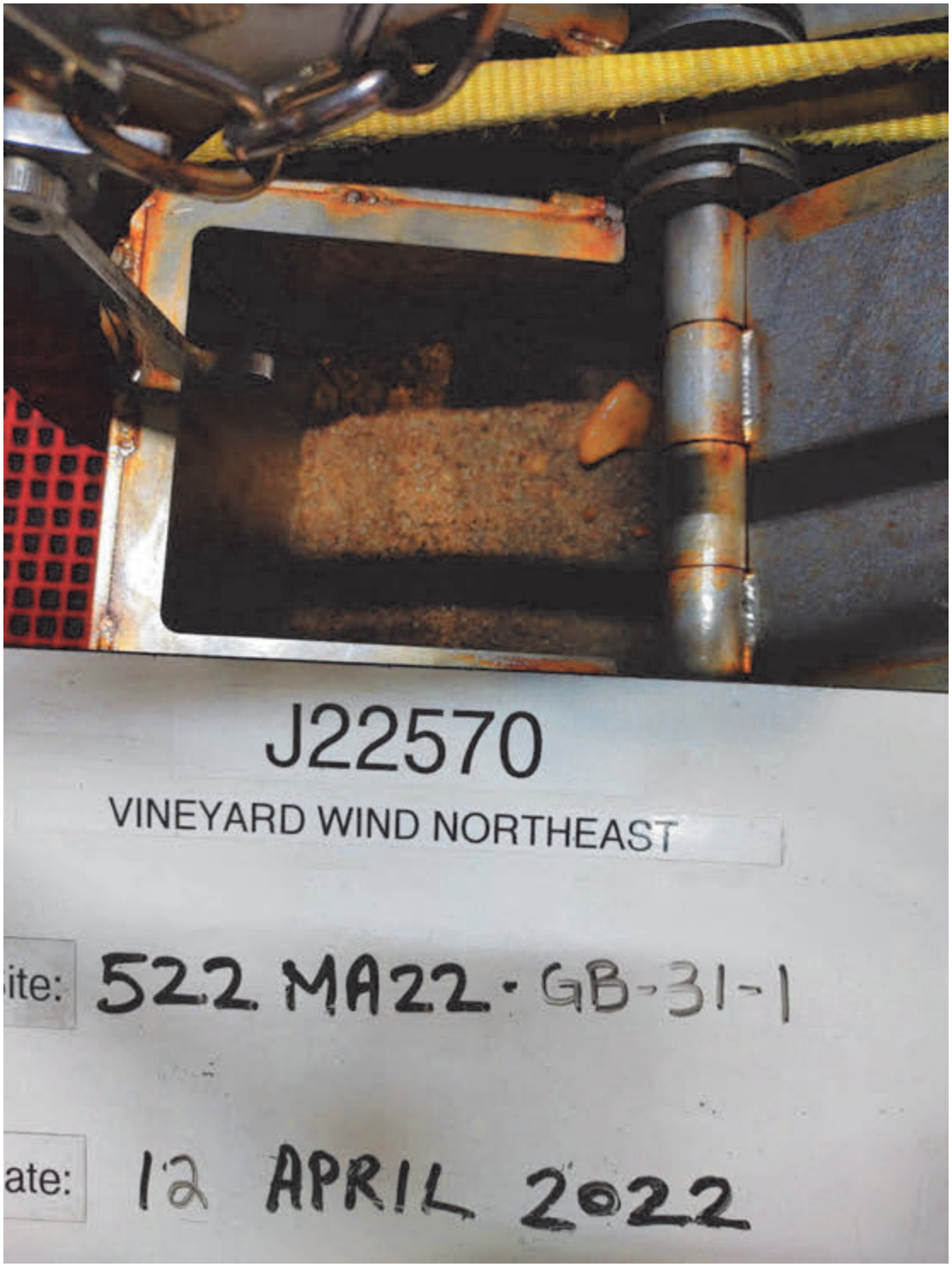

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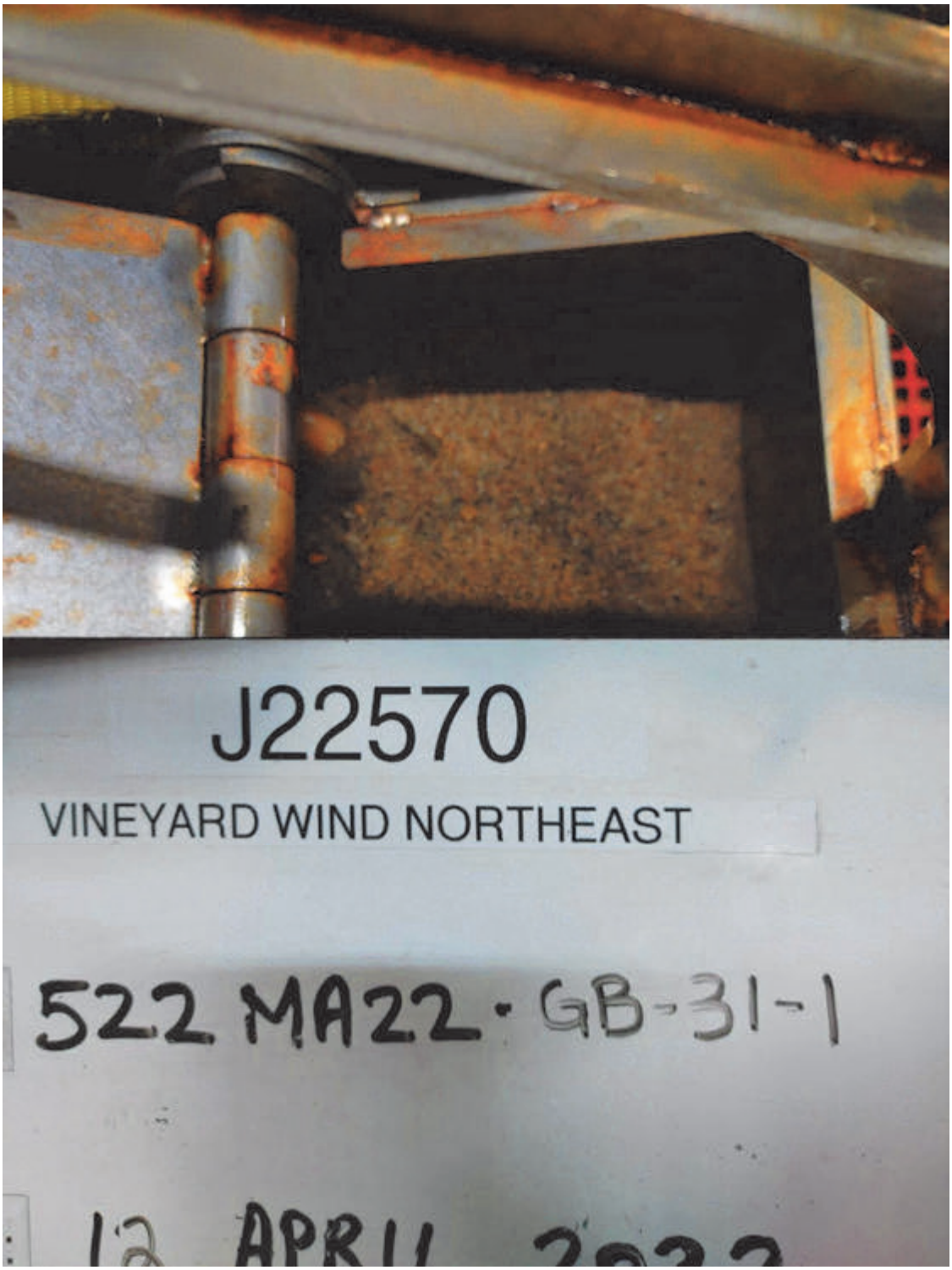

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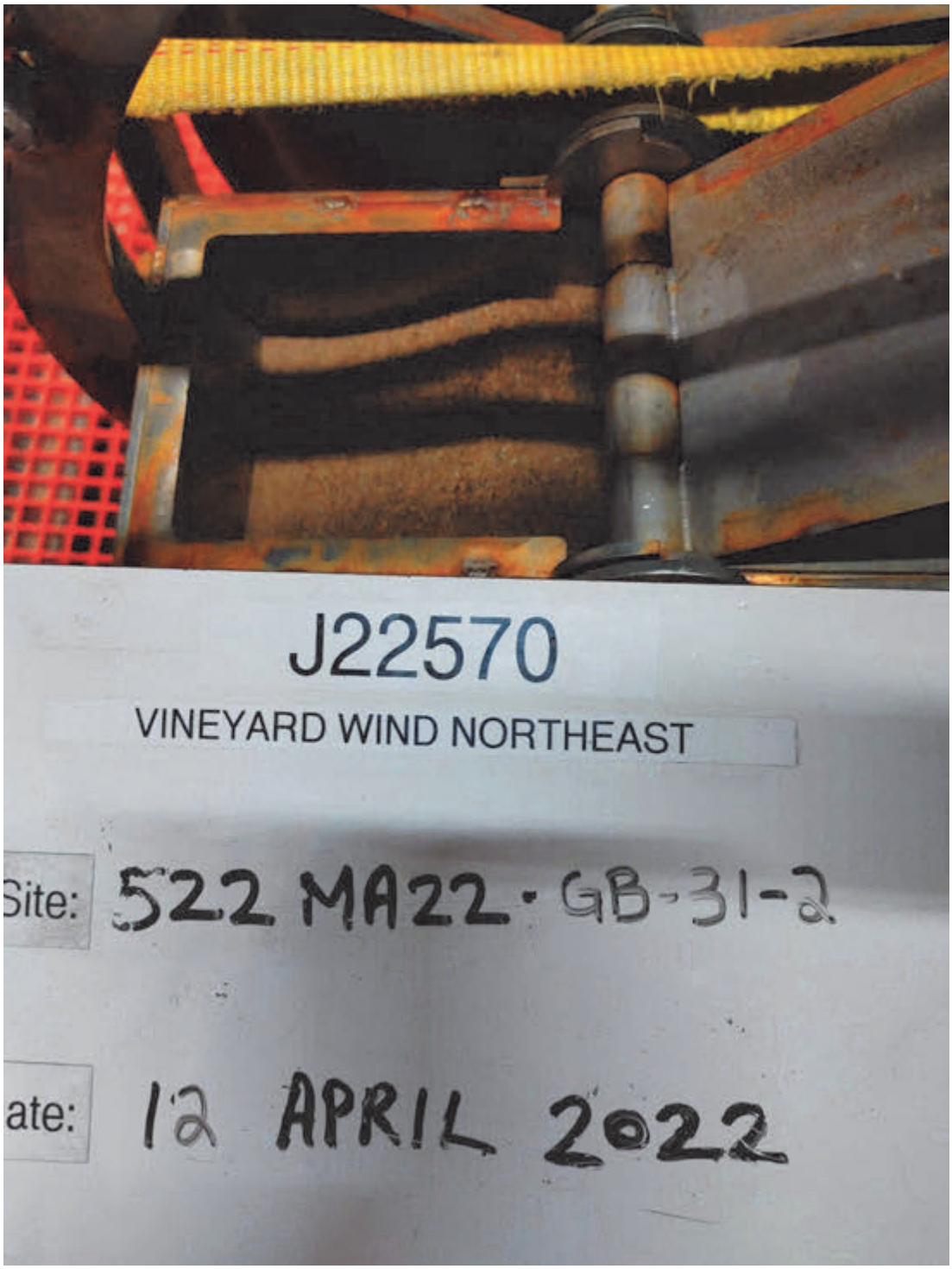

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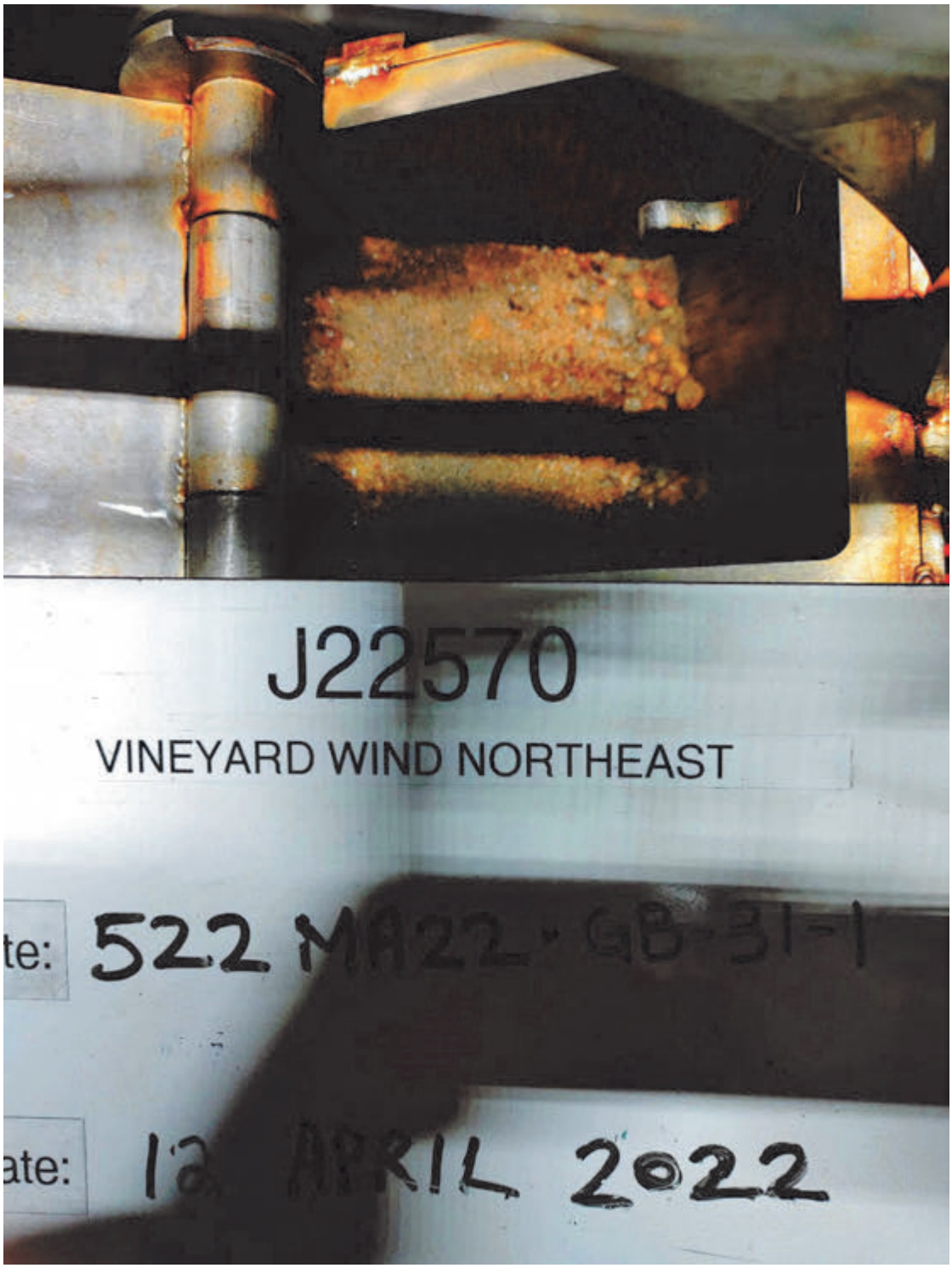

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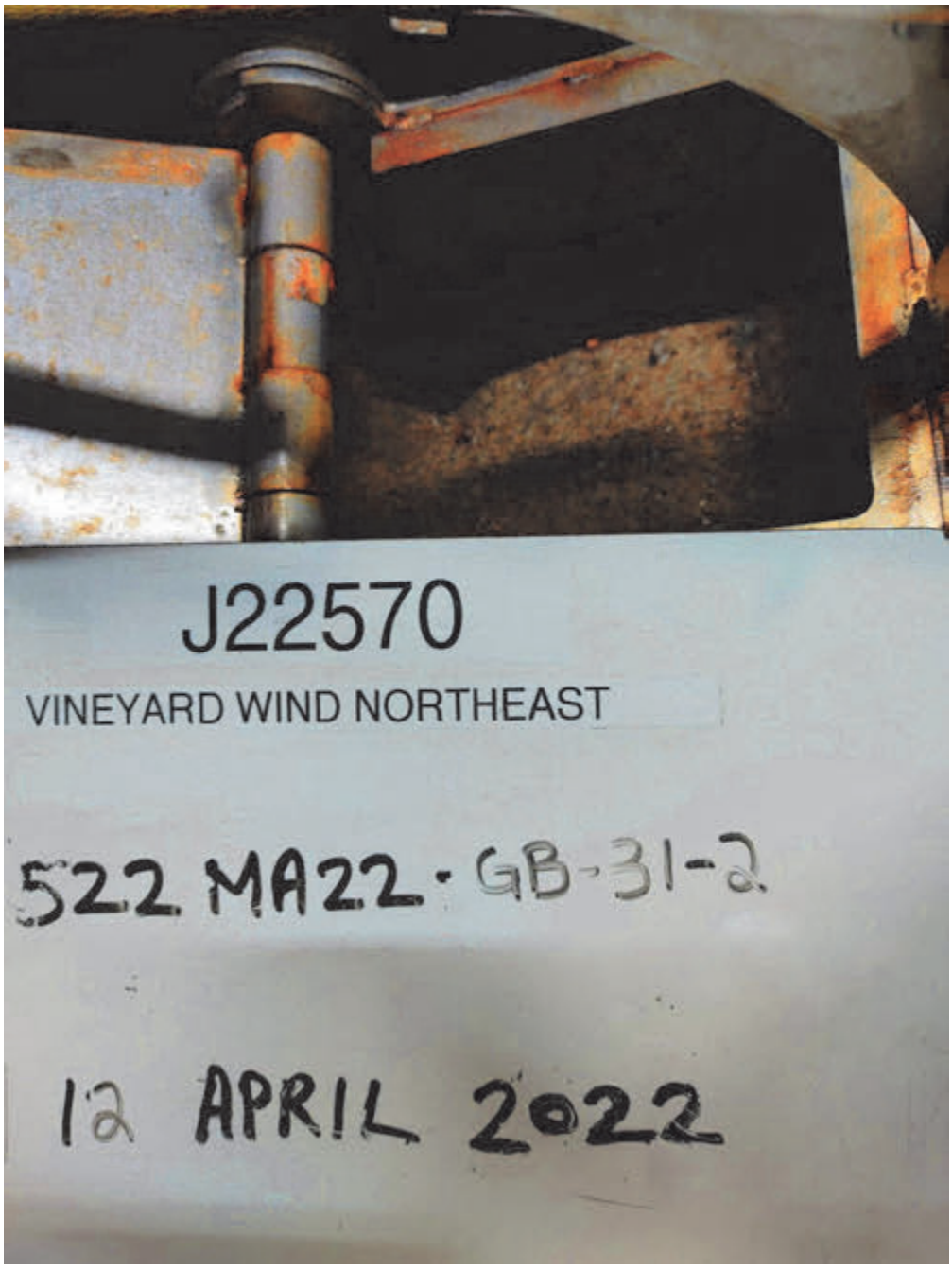

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Sample ID 522MA22-GB032A-1

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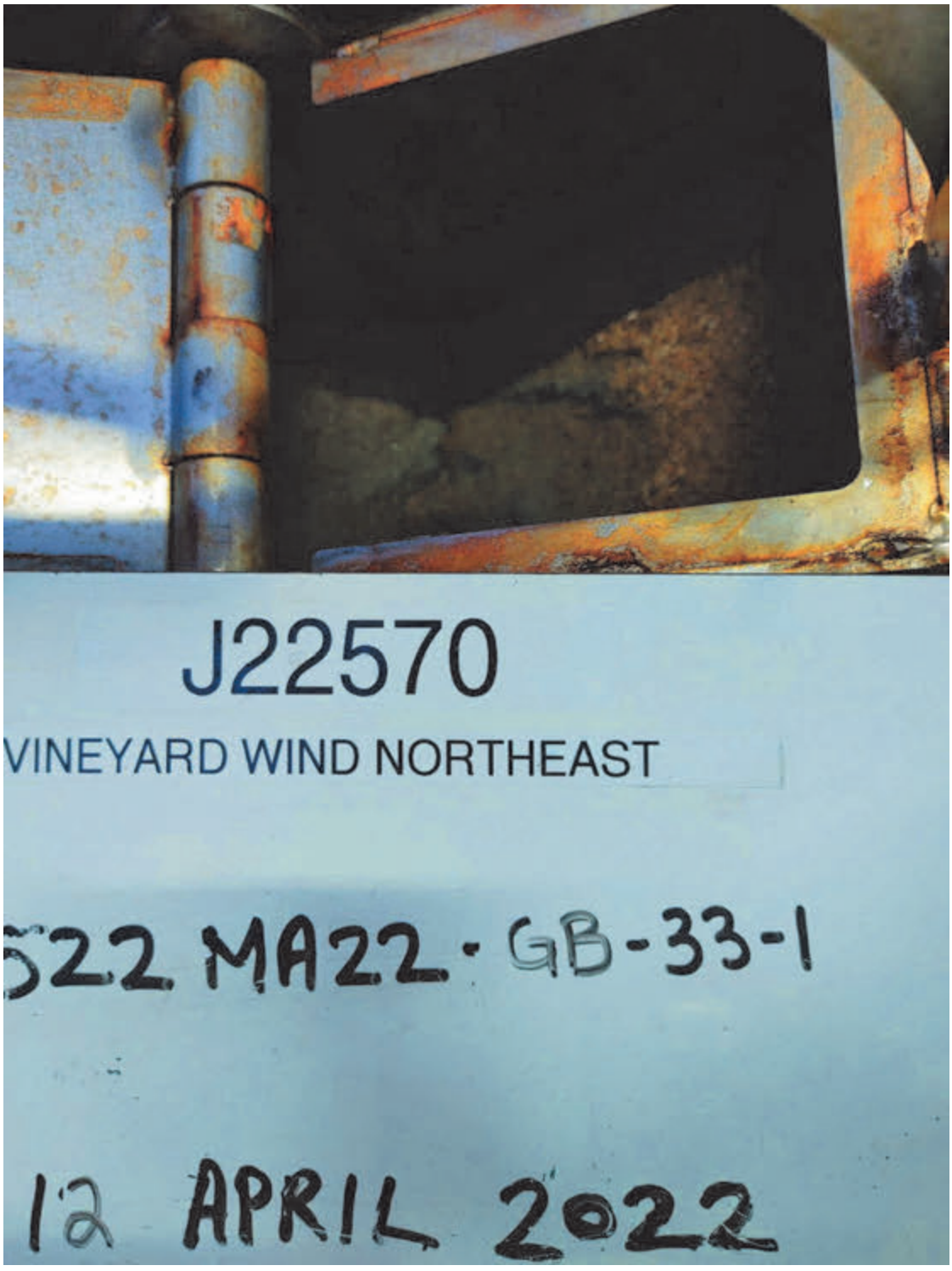

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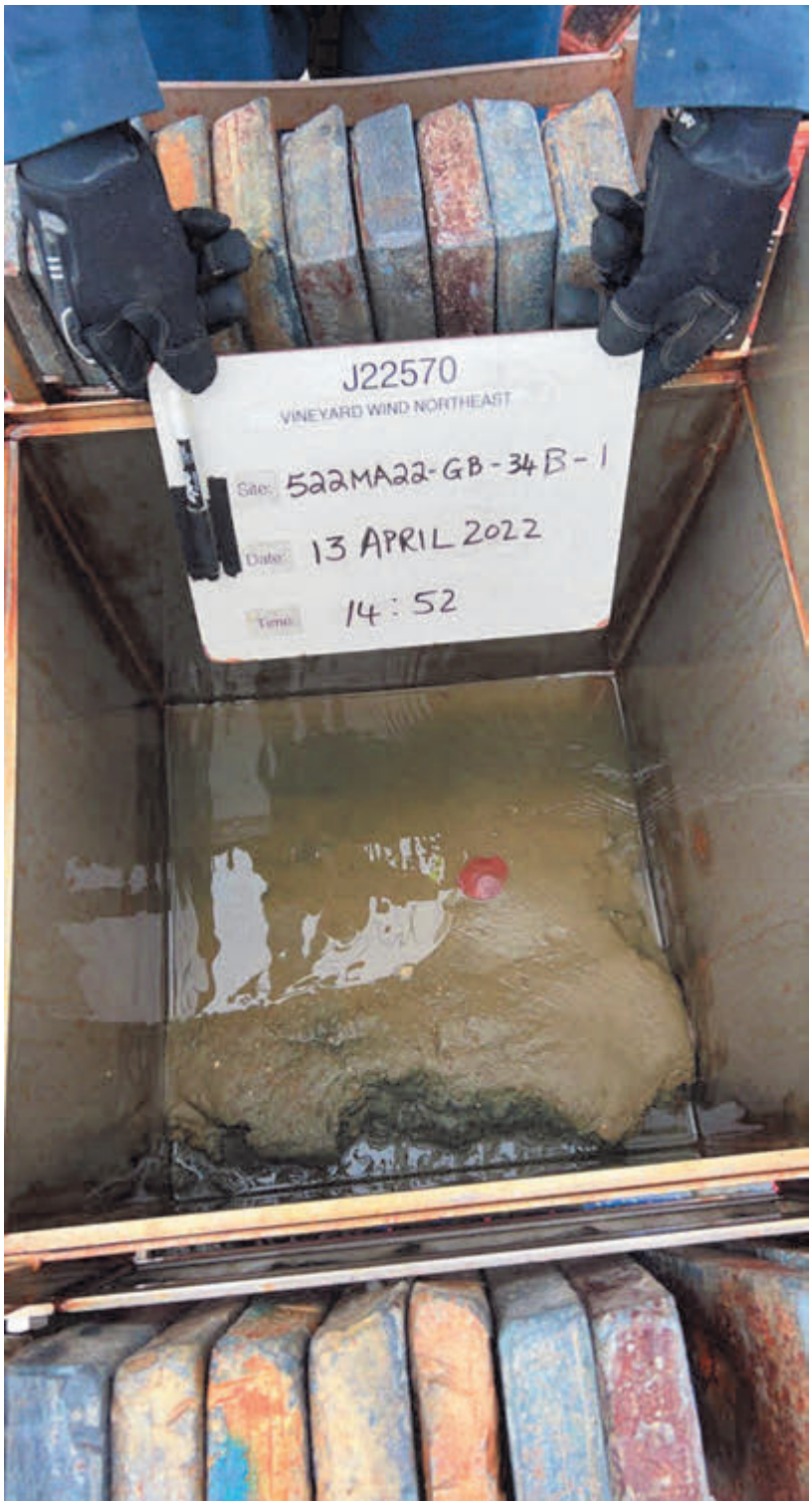

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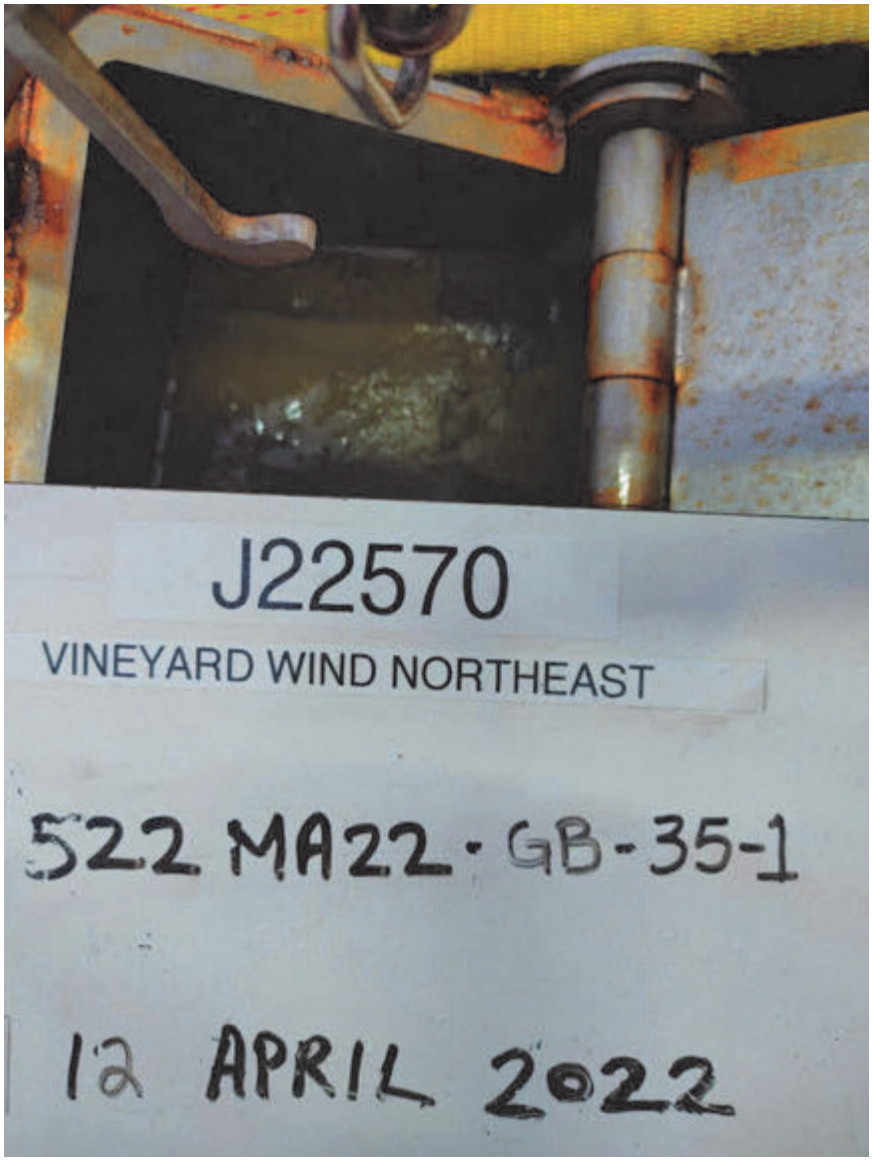

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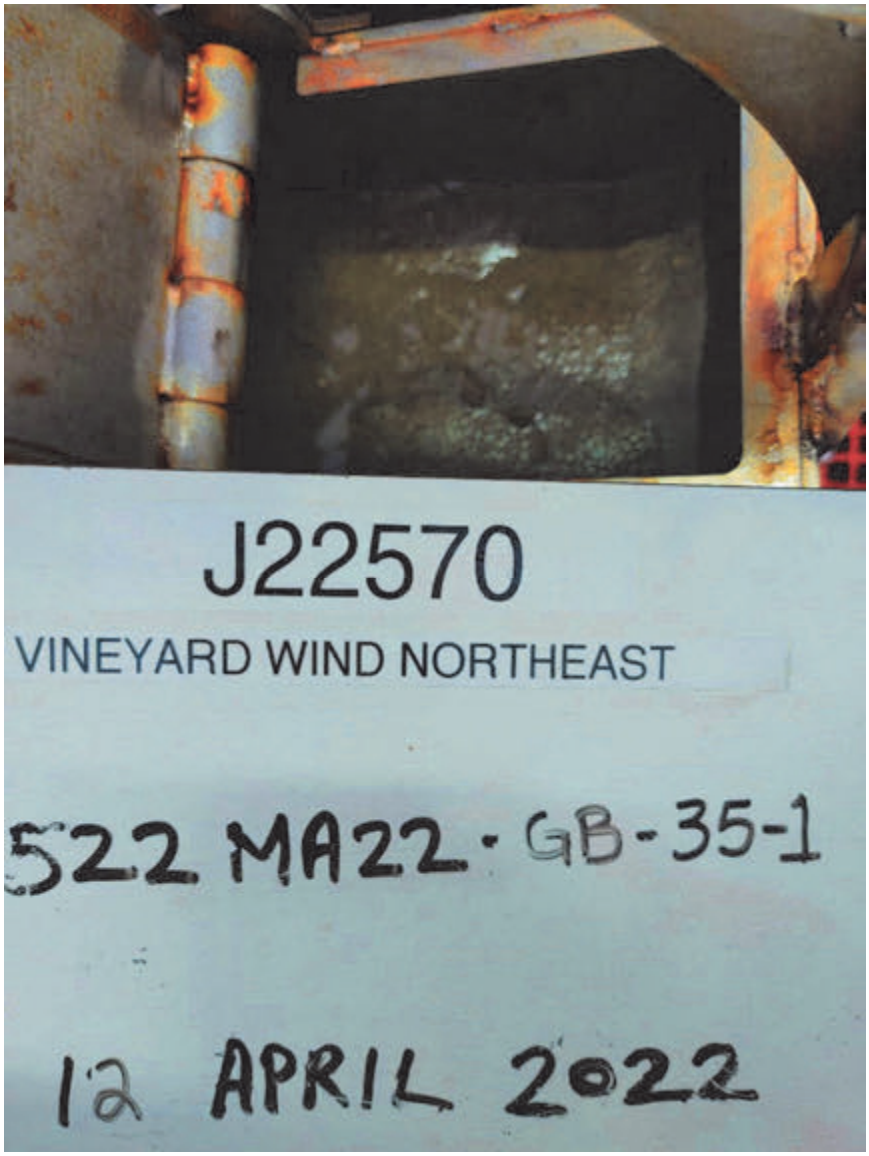

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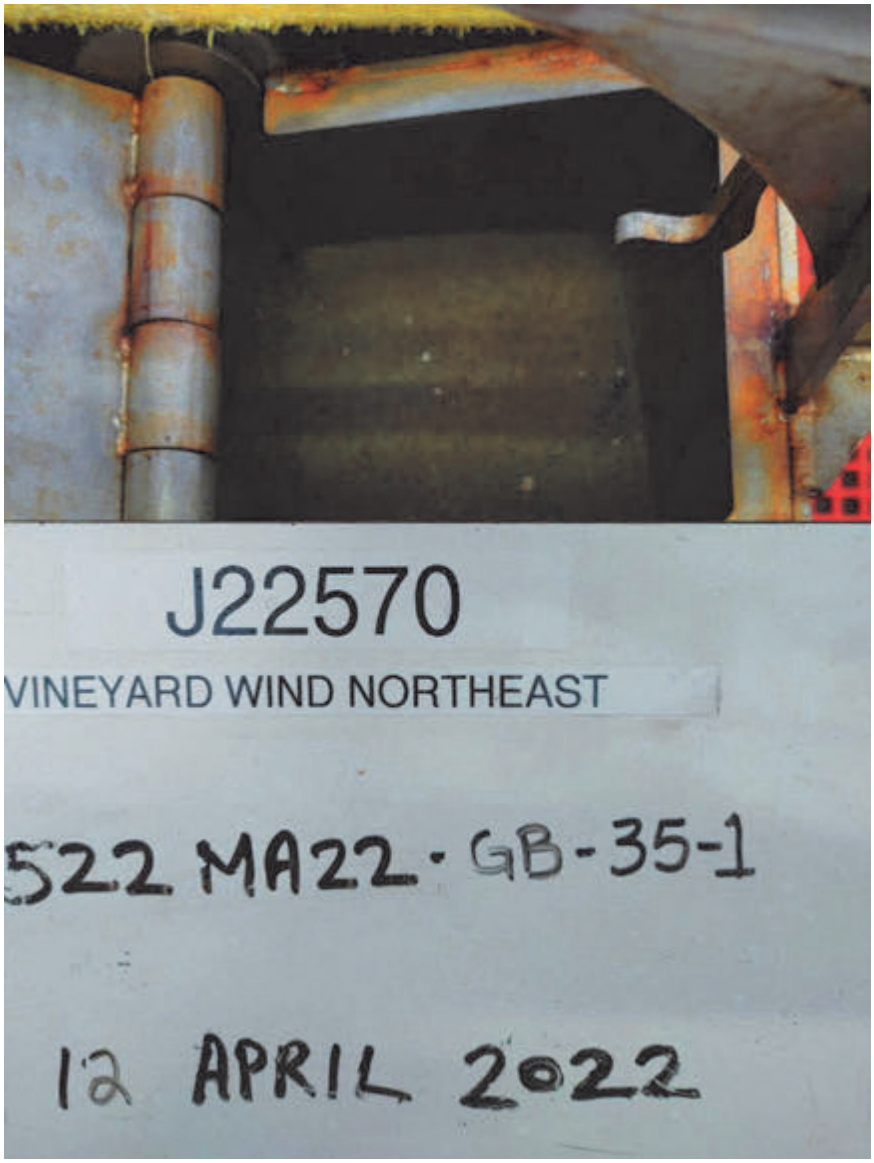

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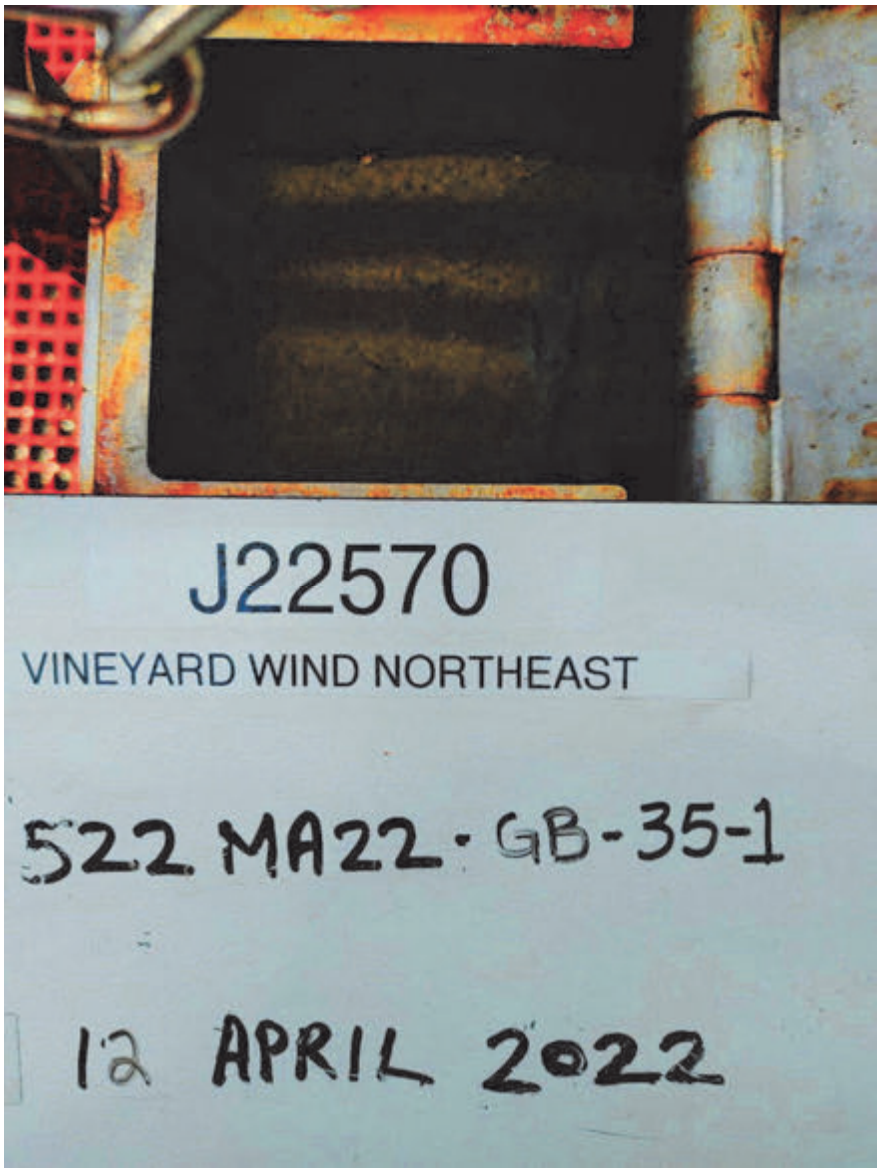

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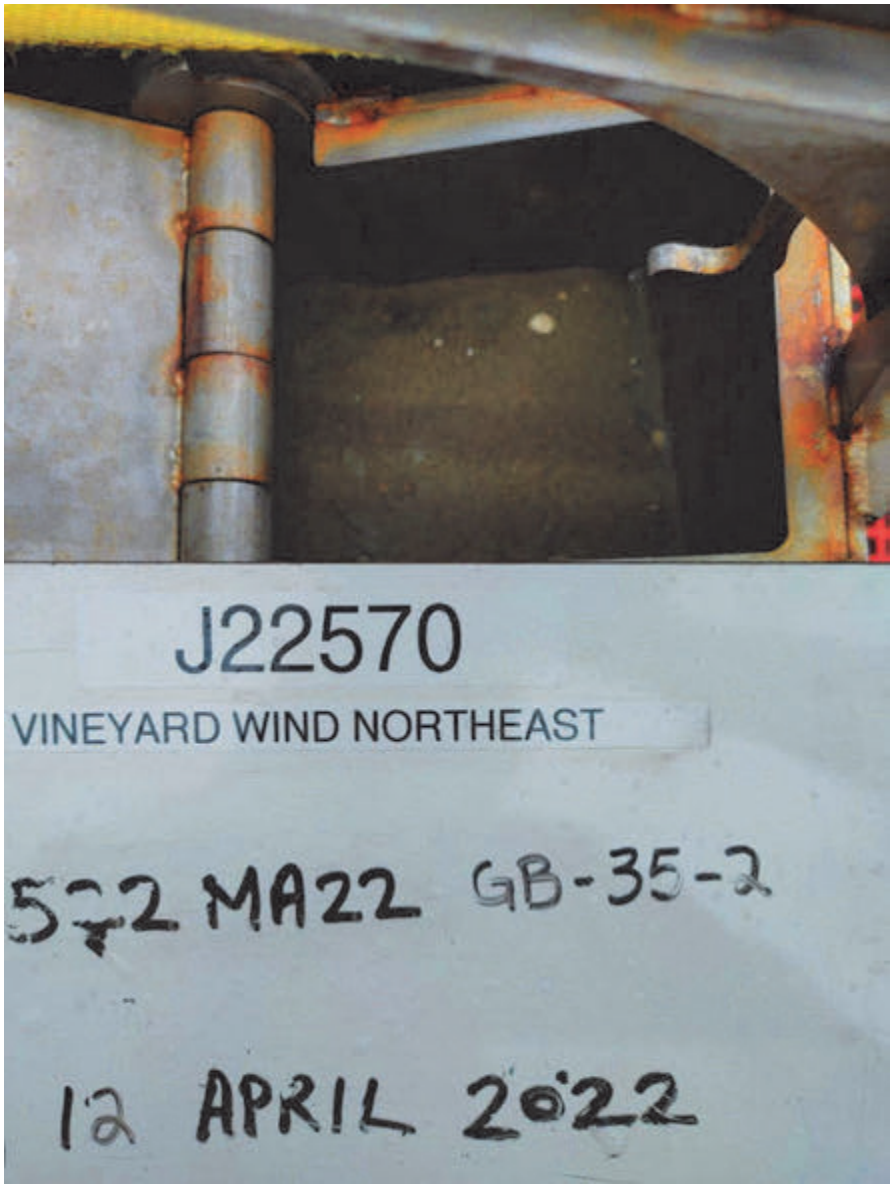

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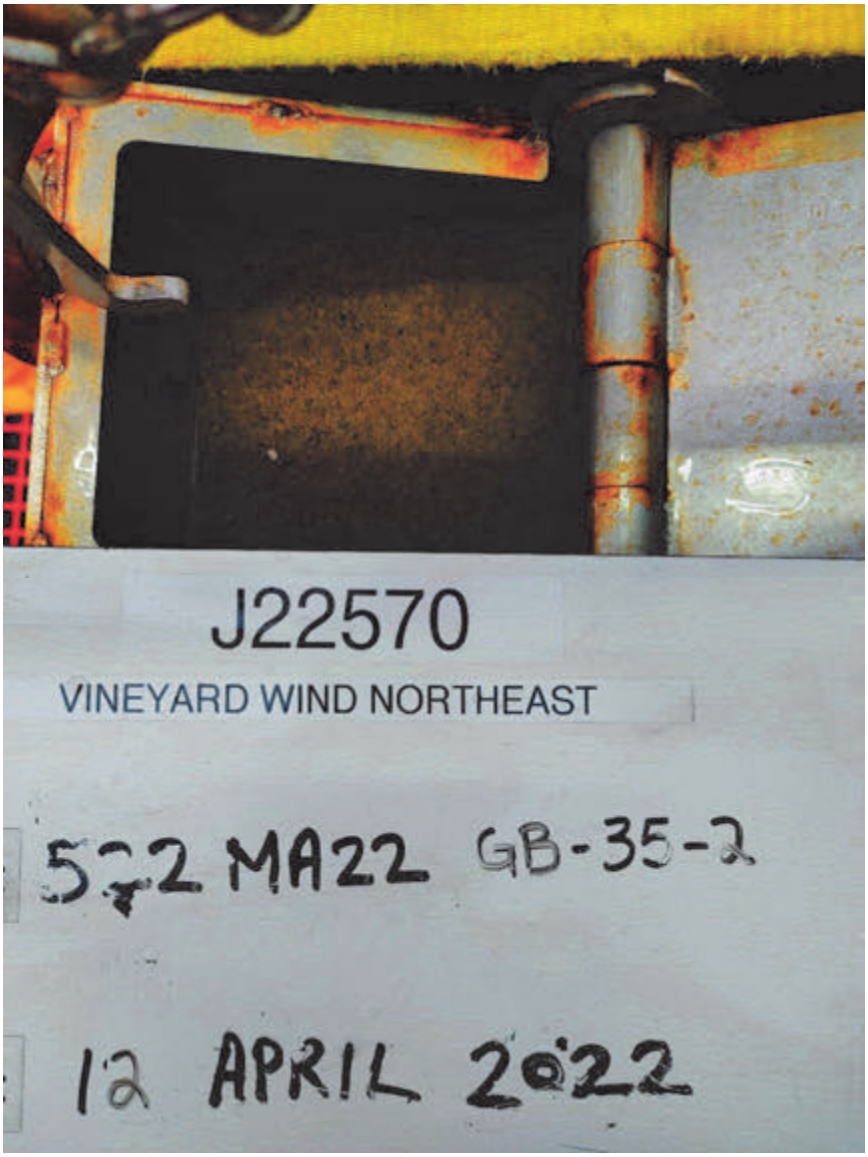

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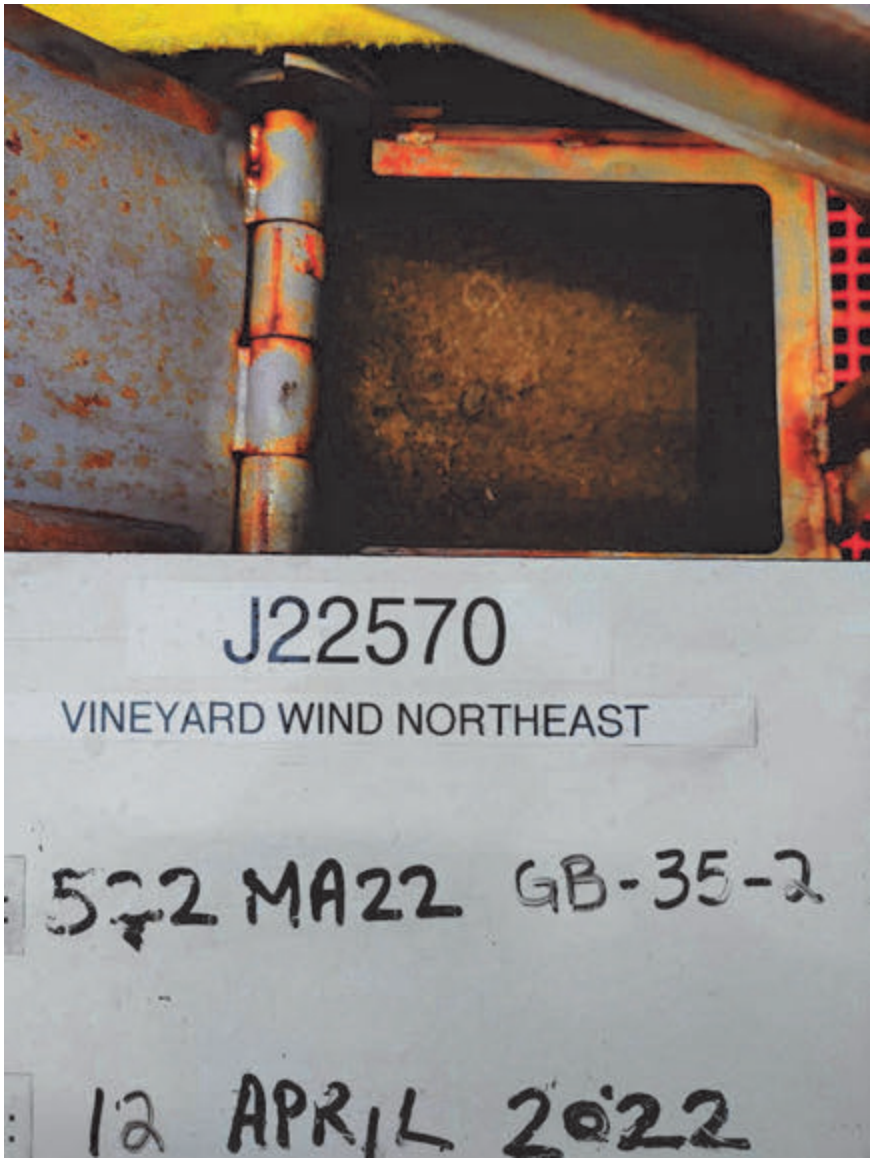

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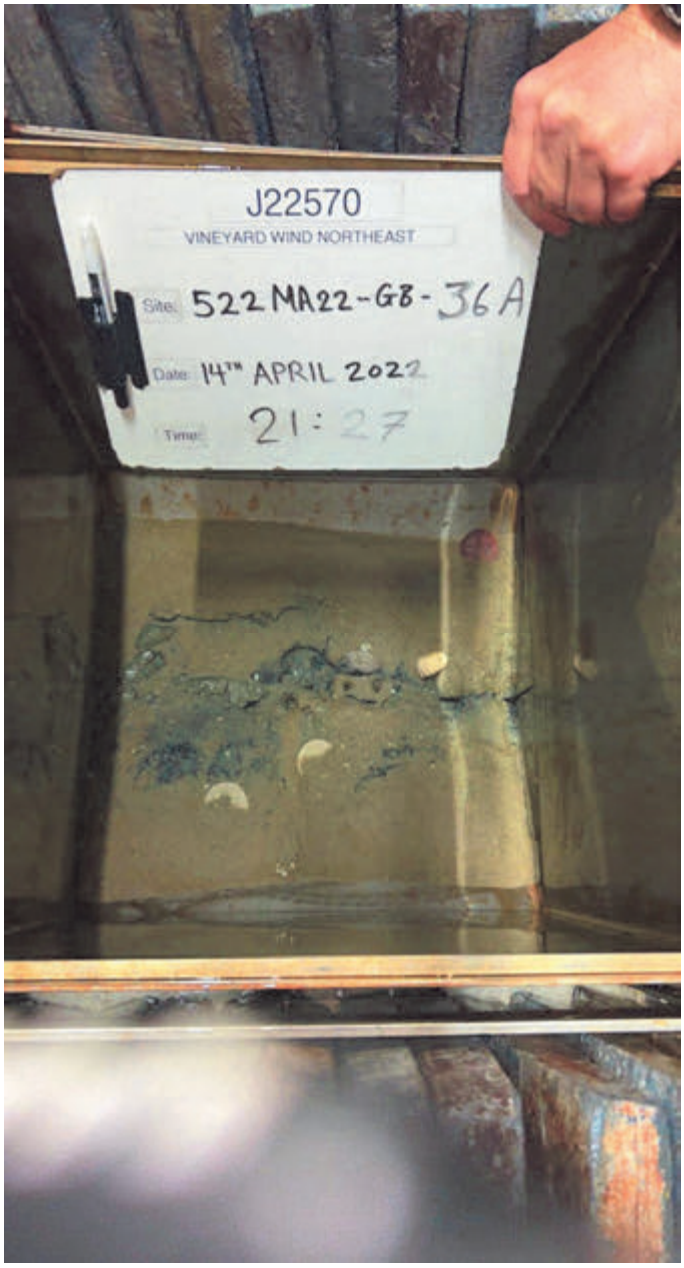

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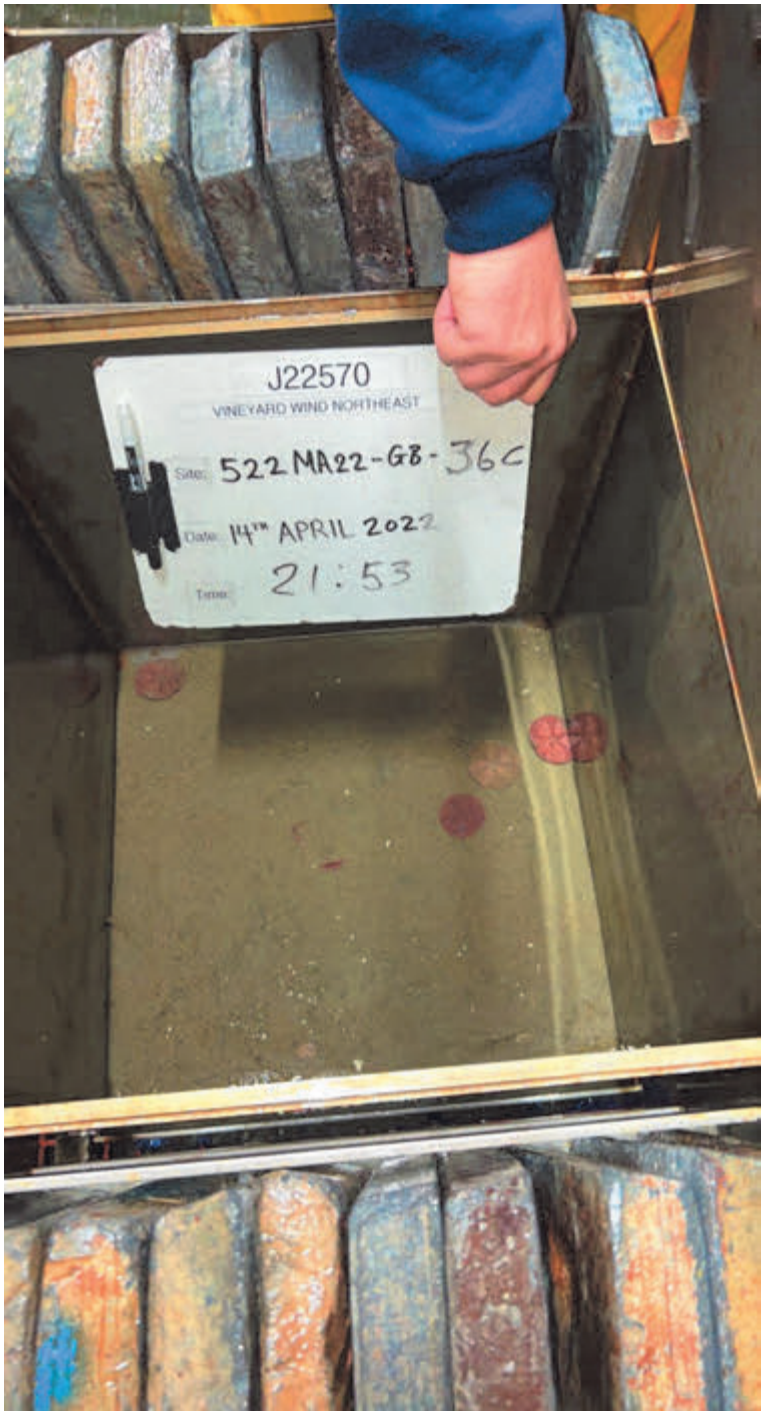

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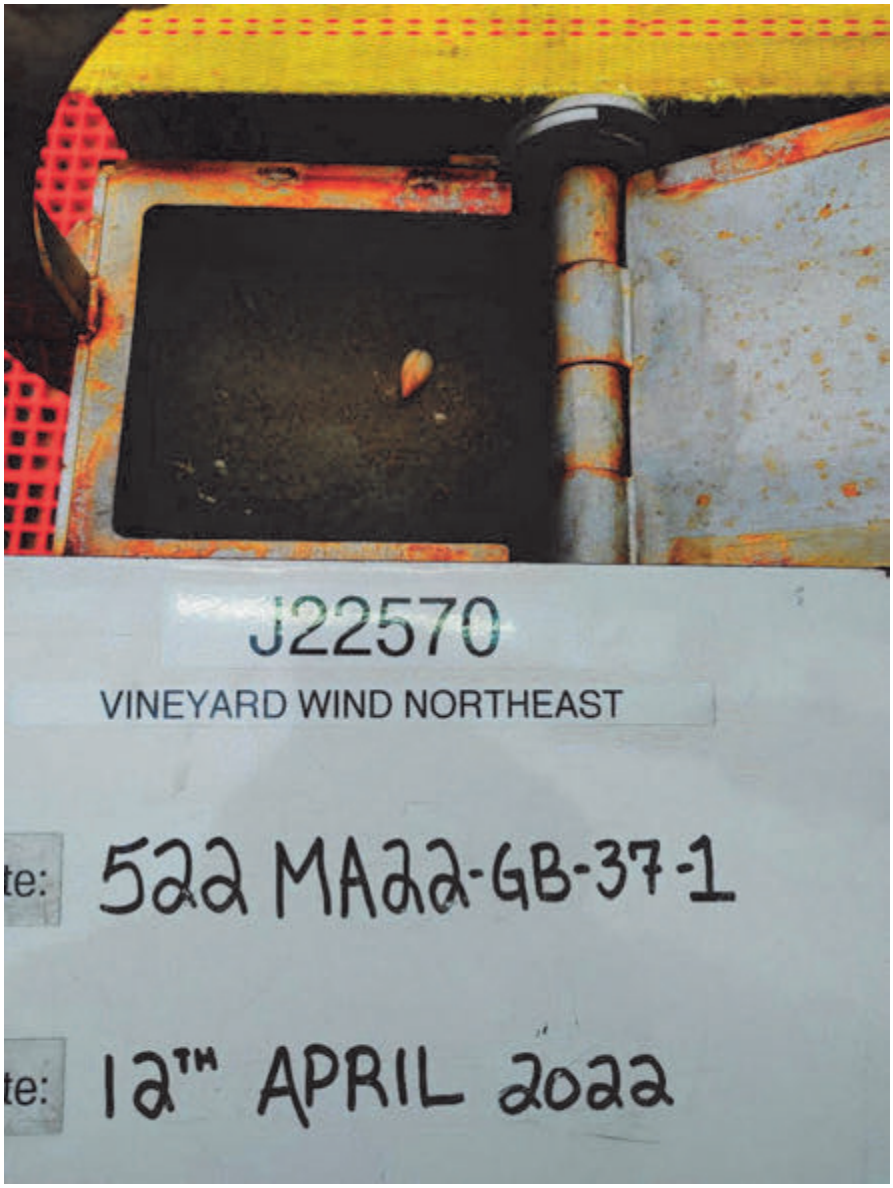

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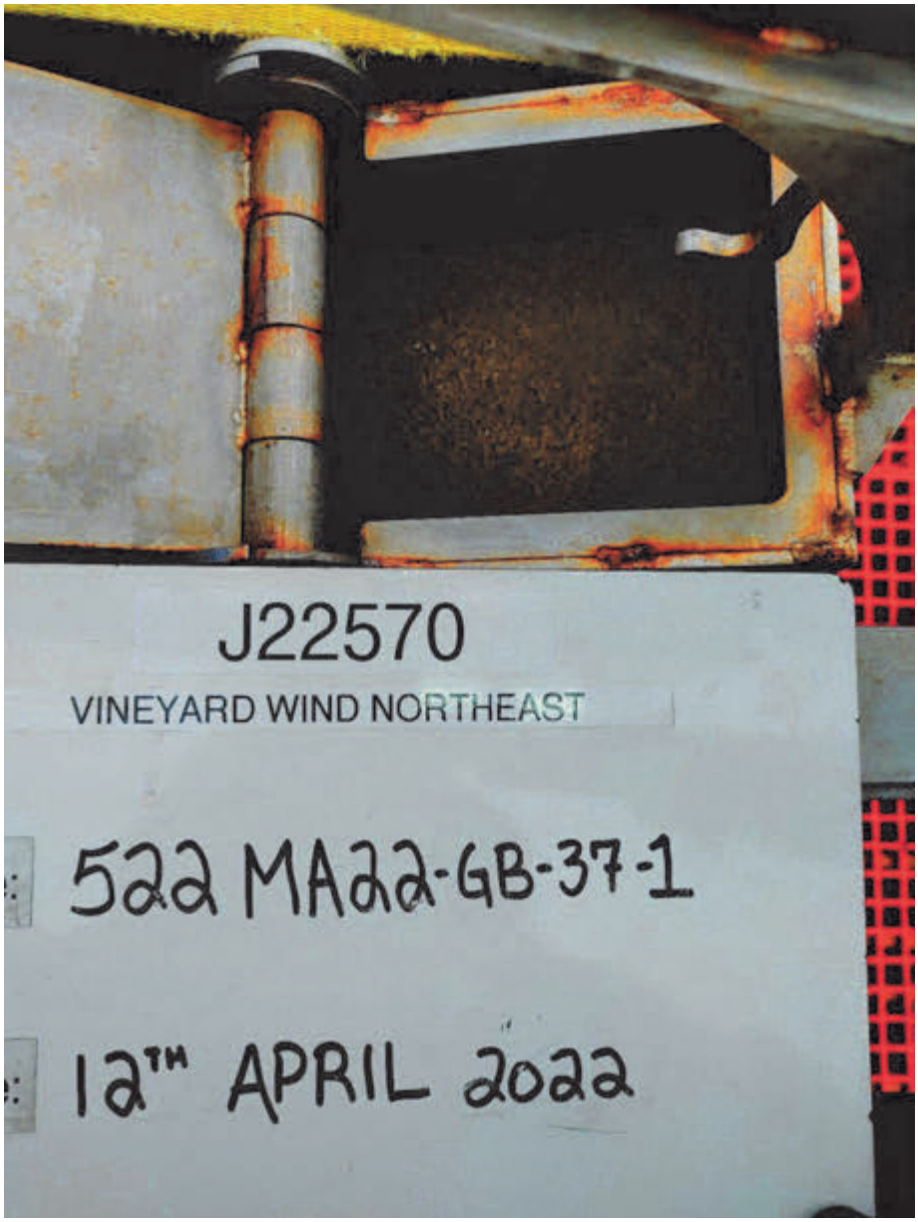

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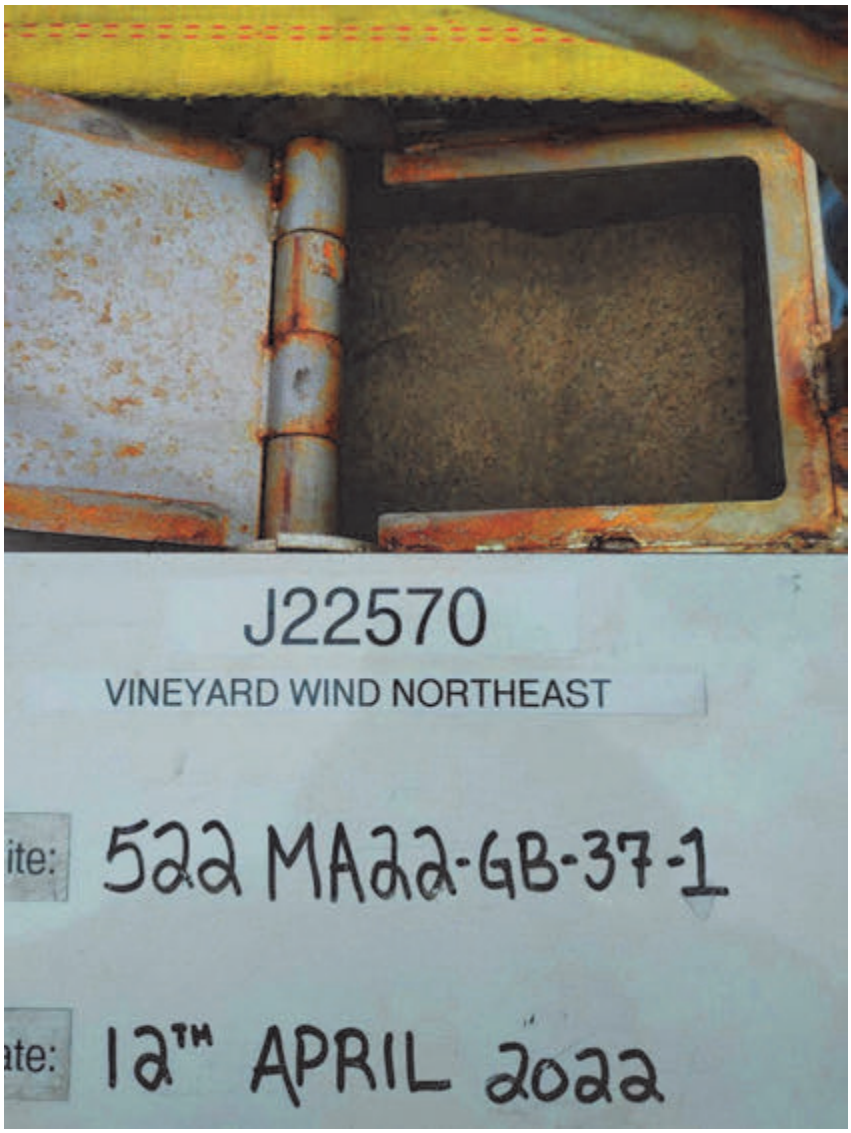

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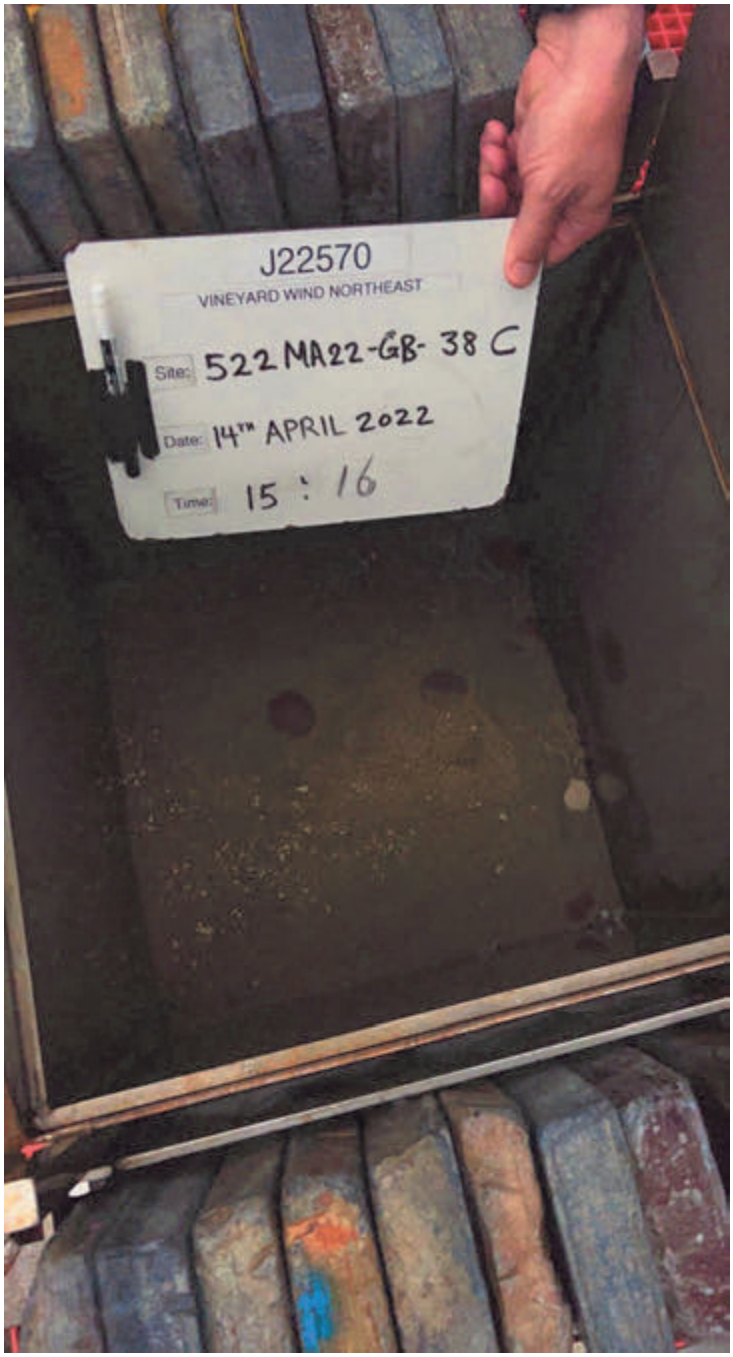

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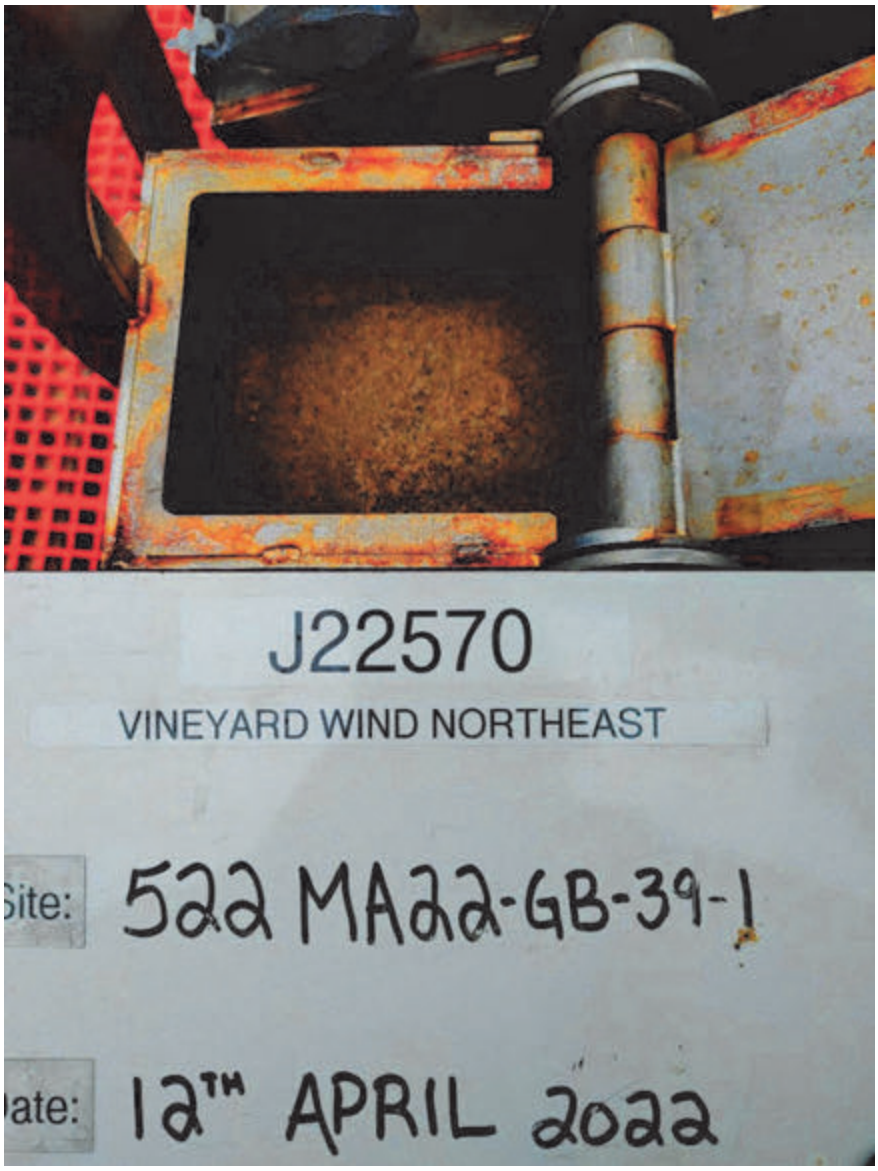

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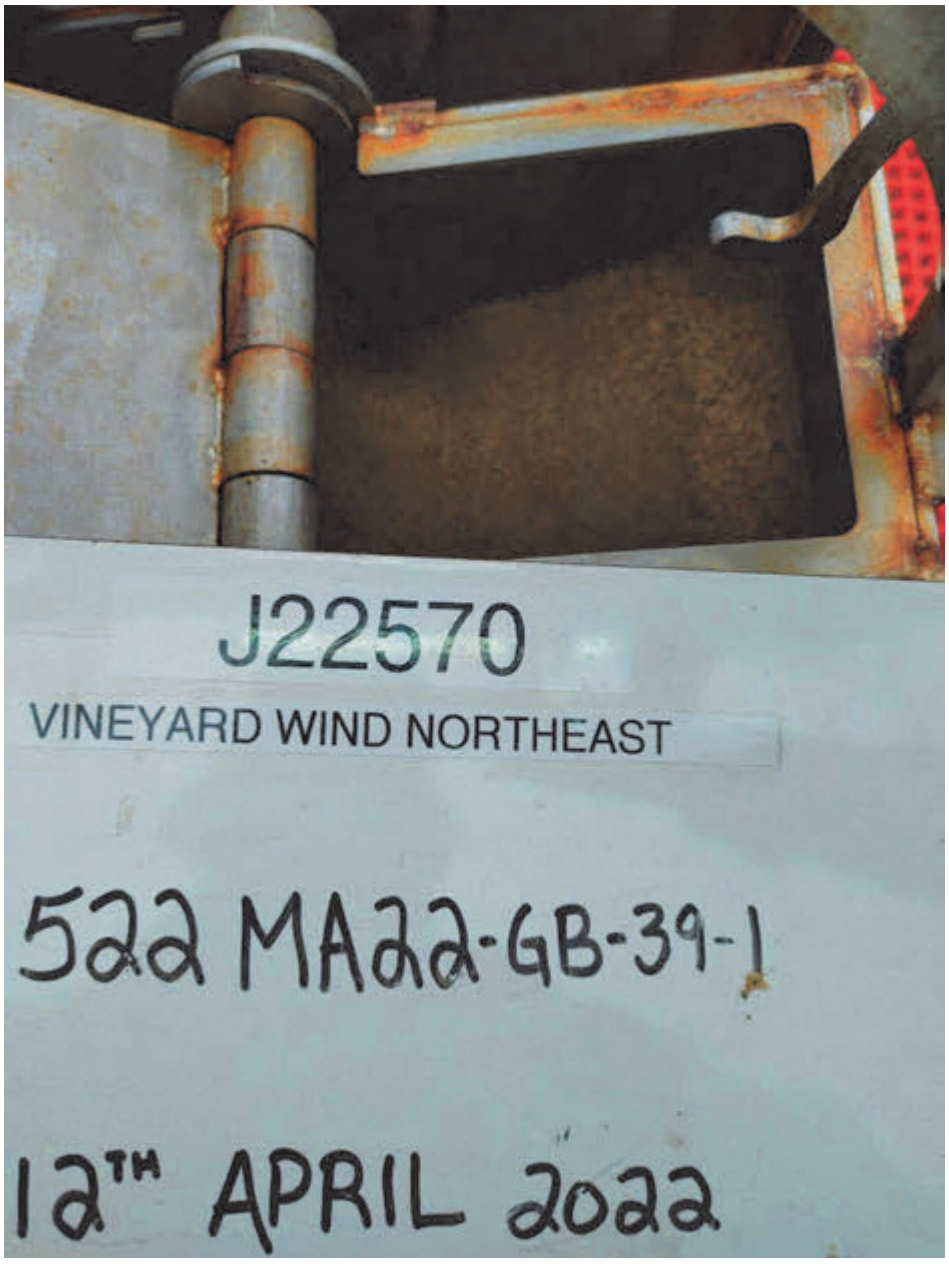

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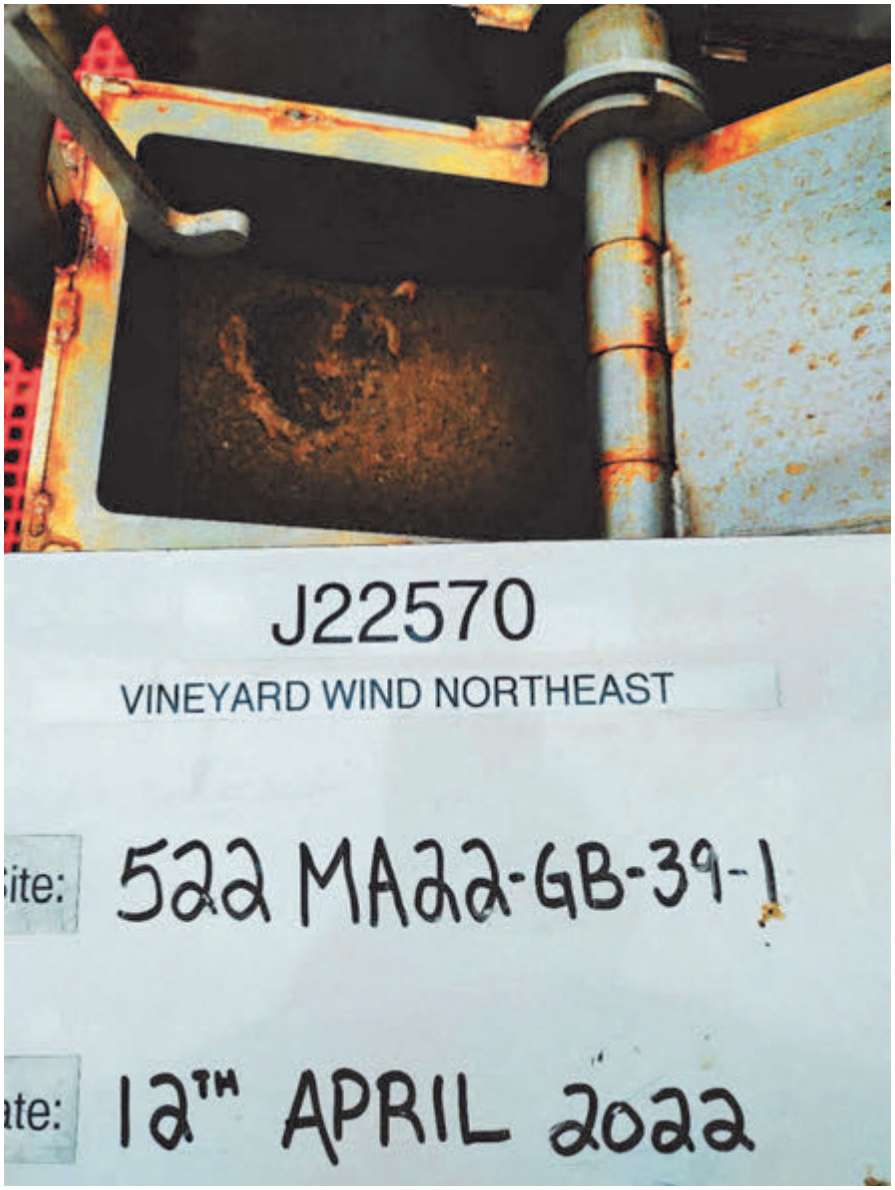

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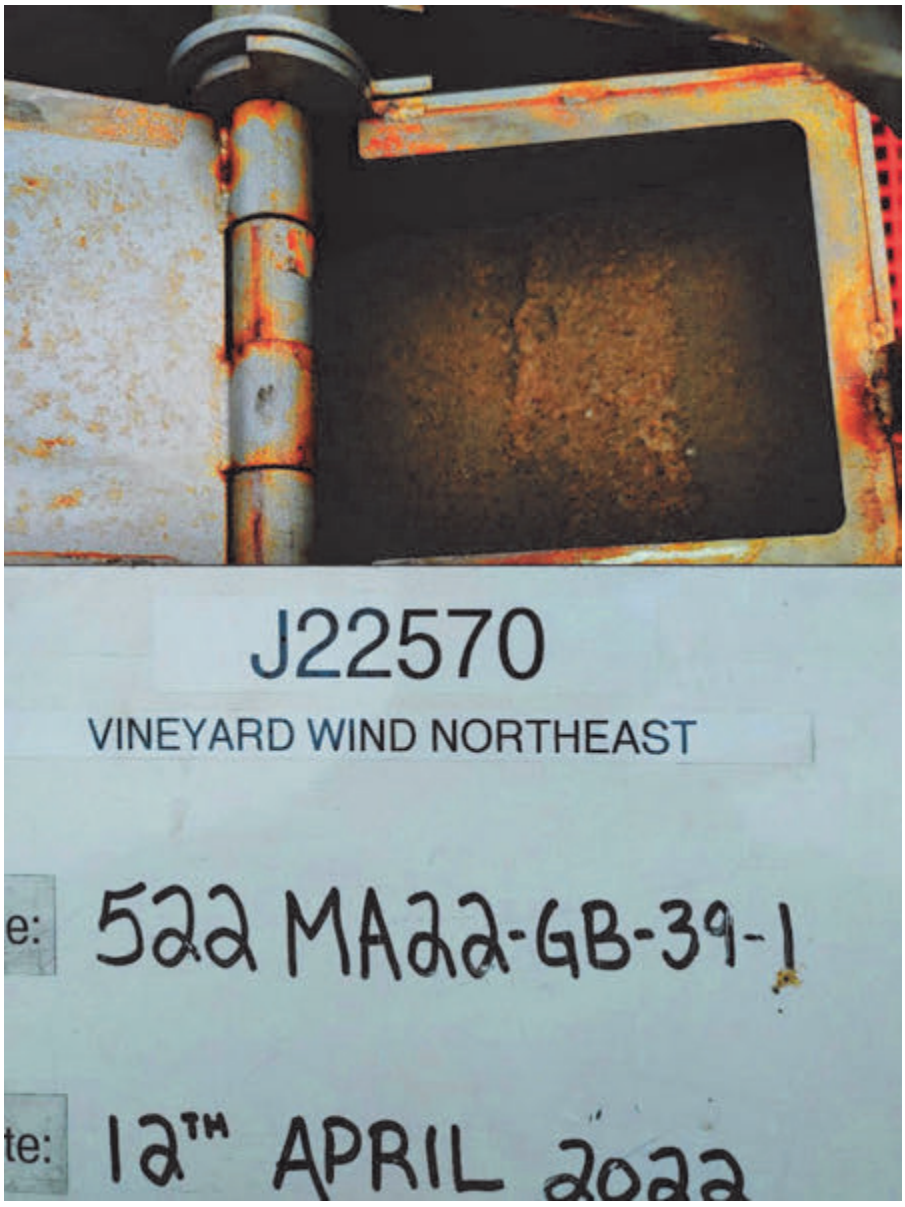

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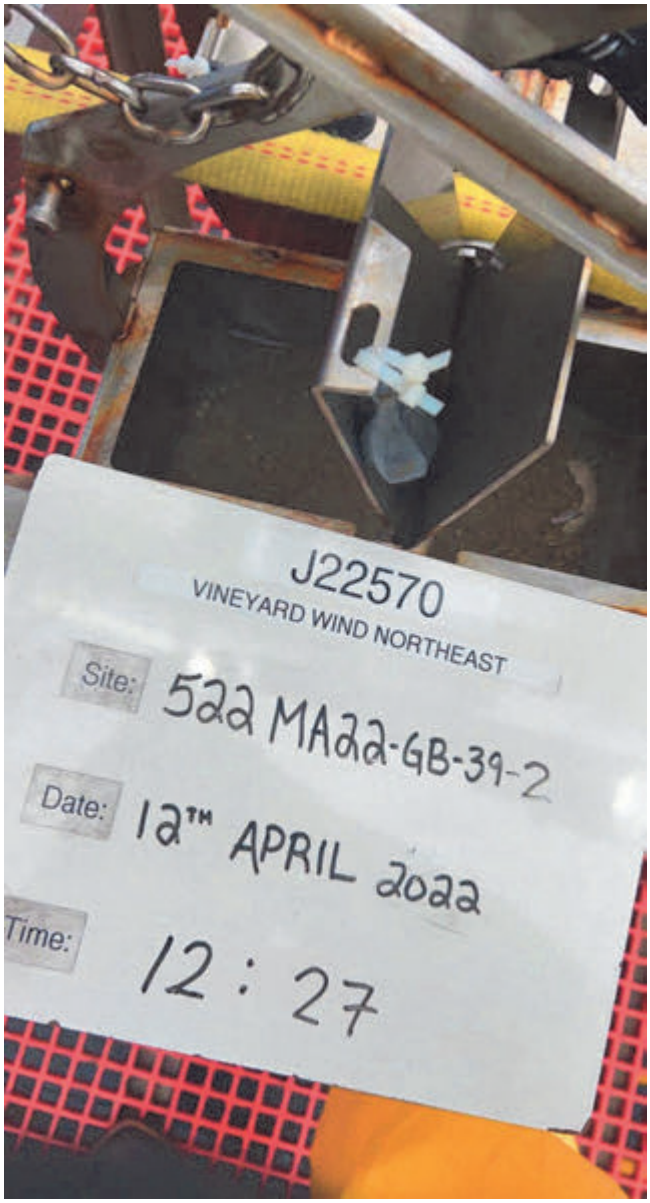

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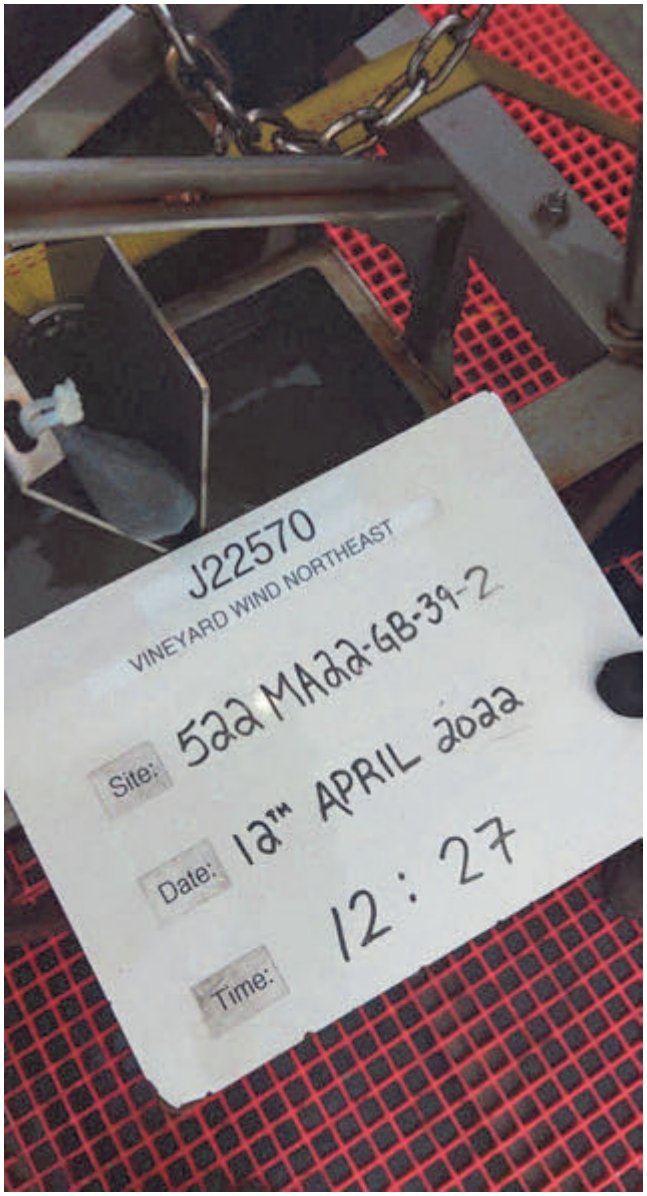

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Sample ID 522MA22-GB039-3

PHOTO INFORMATION

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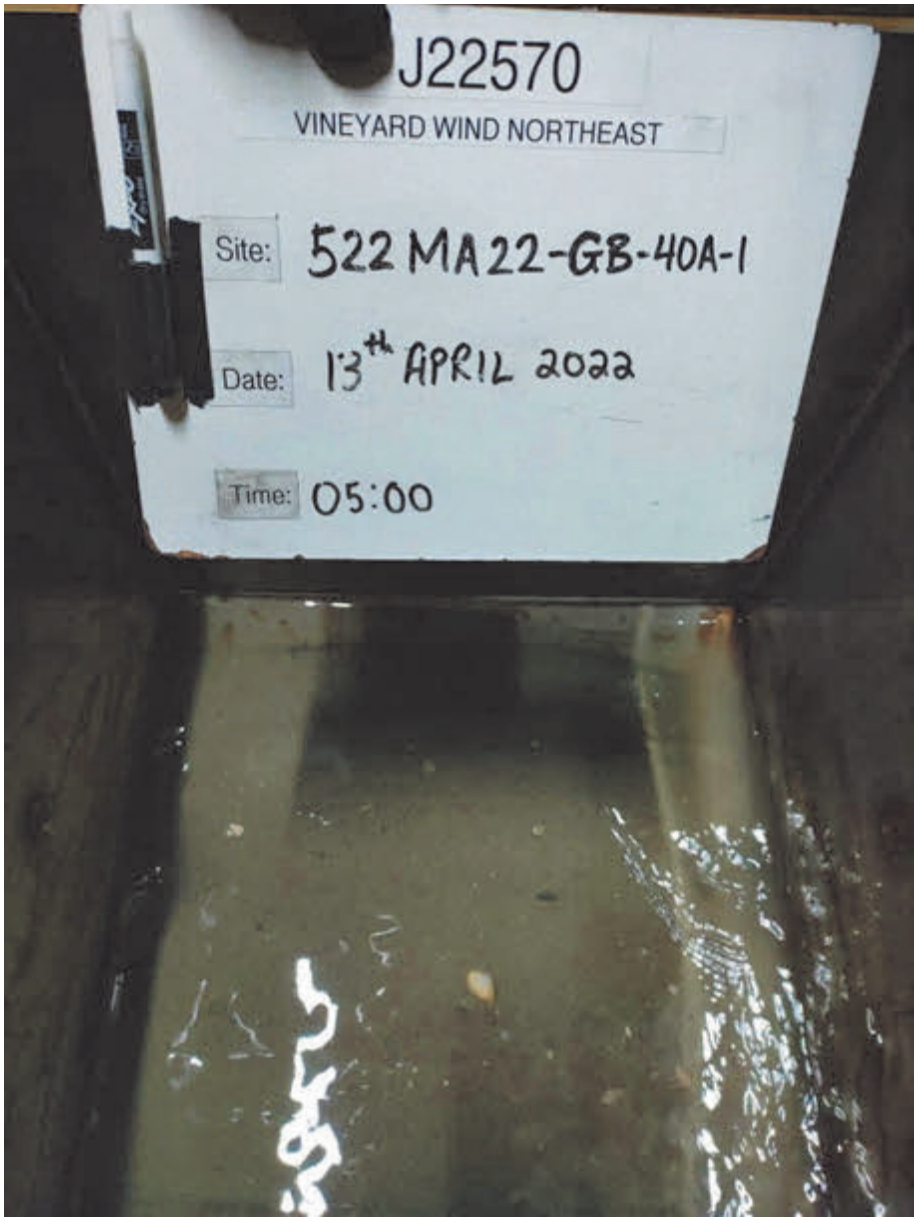

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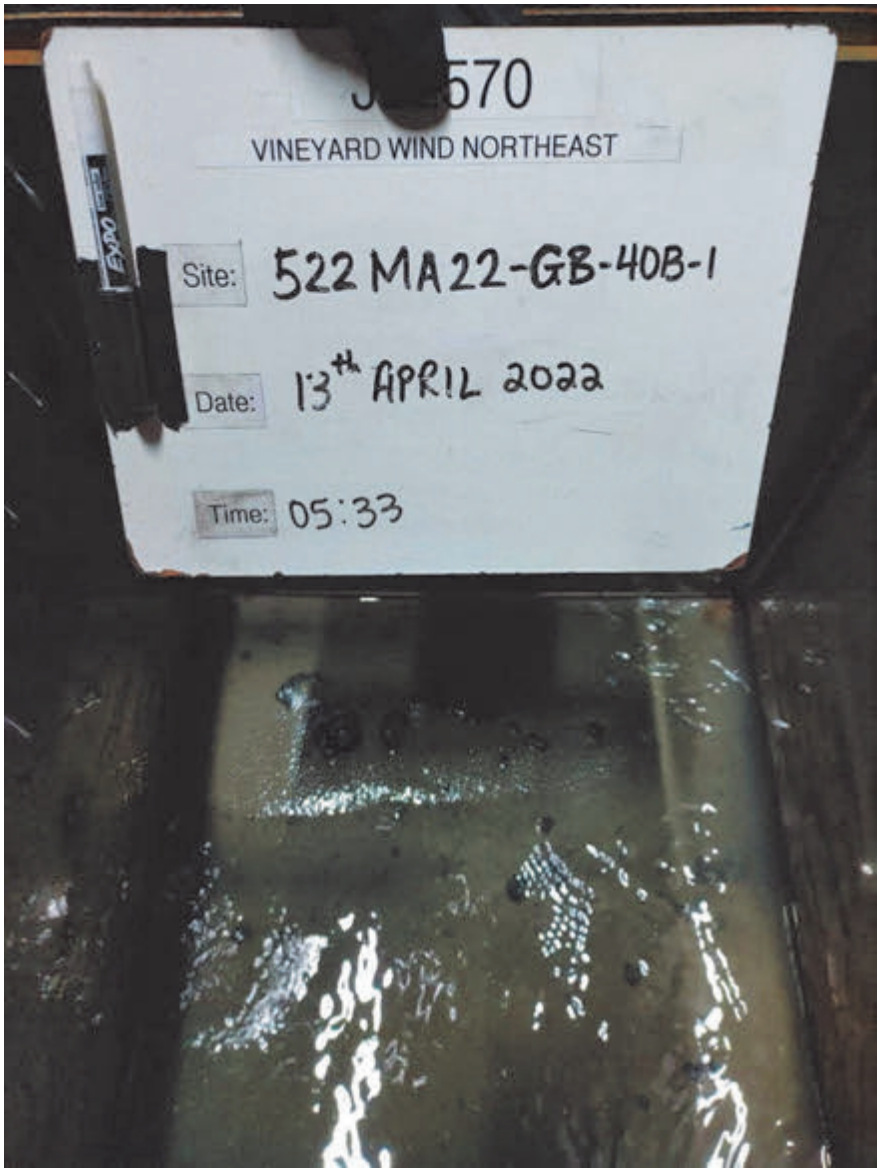

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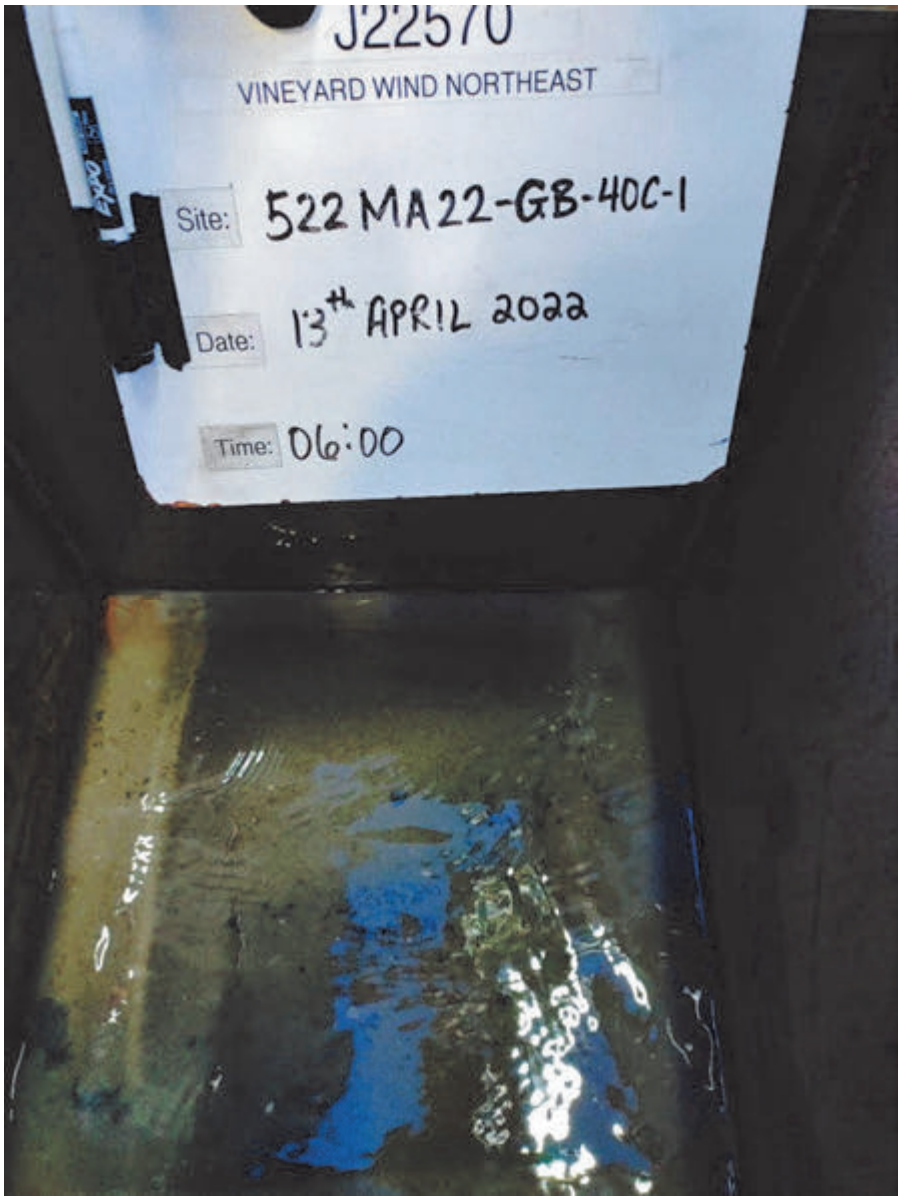

PHOTO INFORMATION

Sample ID 522MA22-GB041-1

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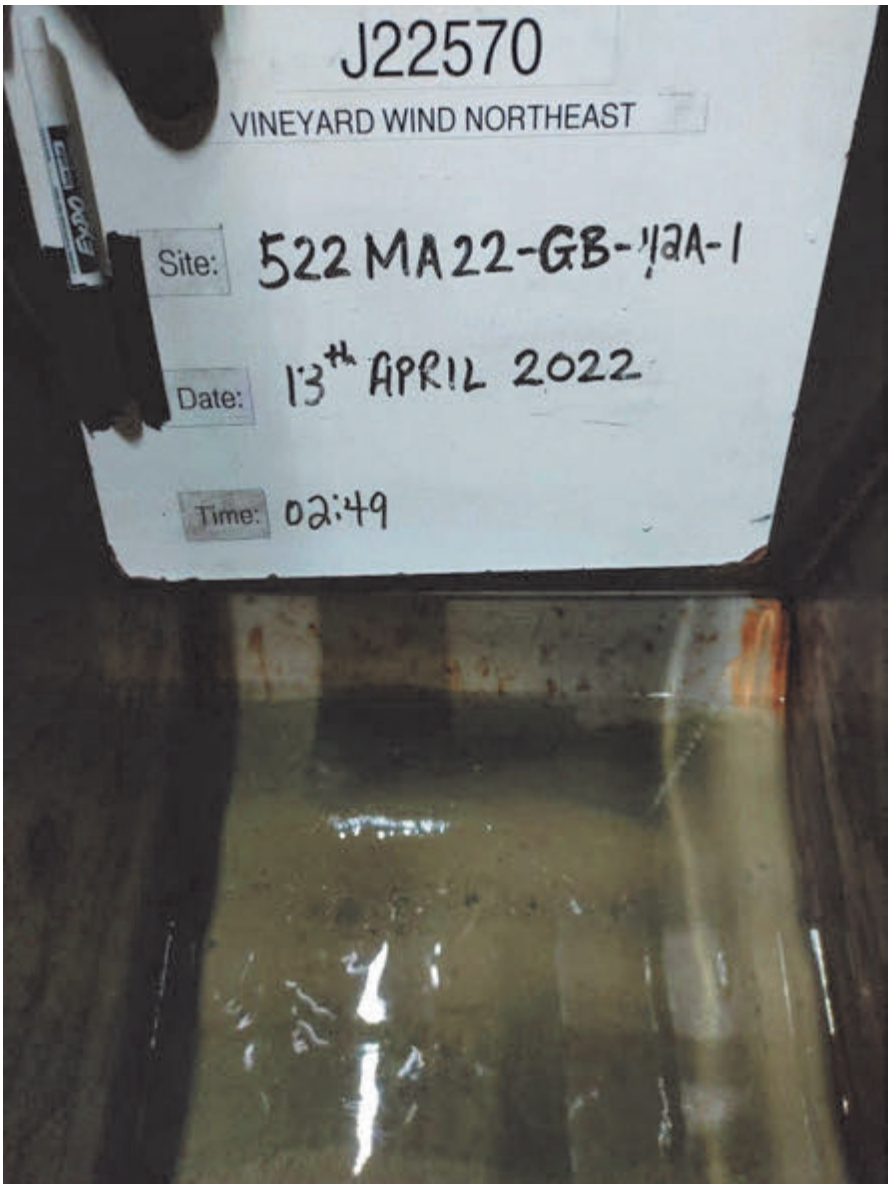

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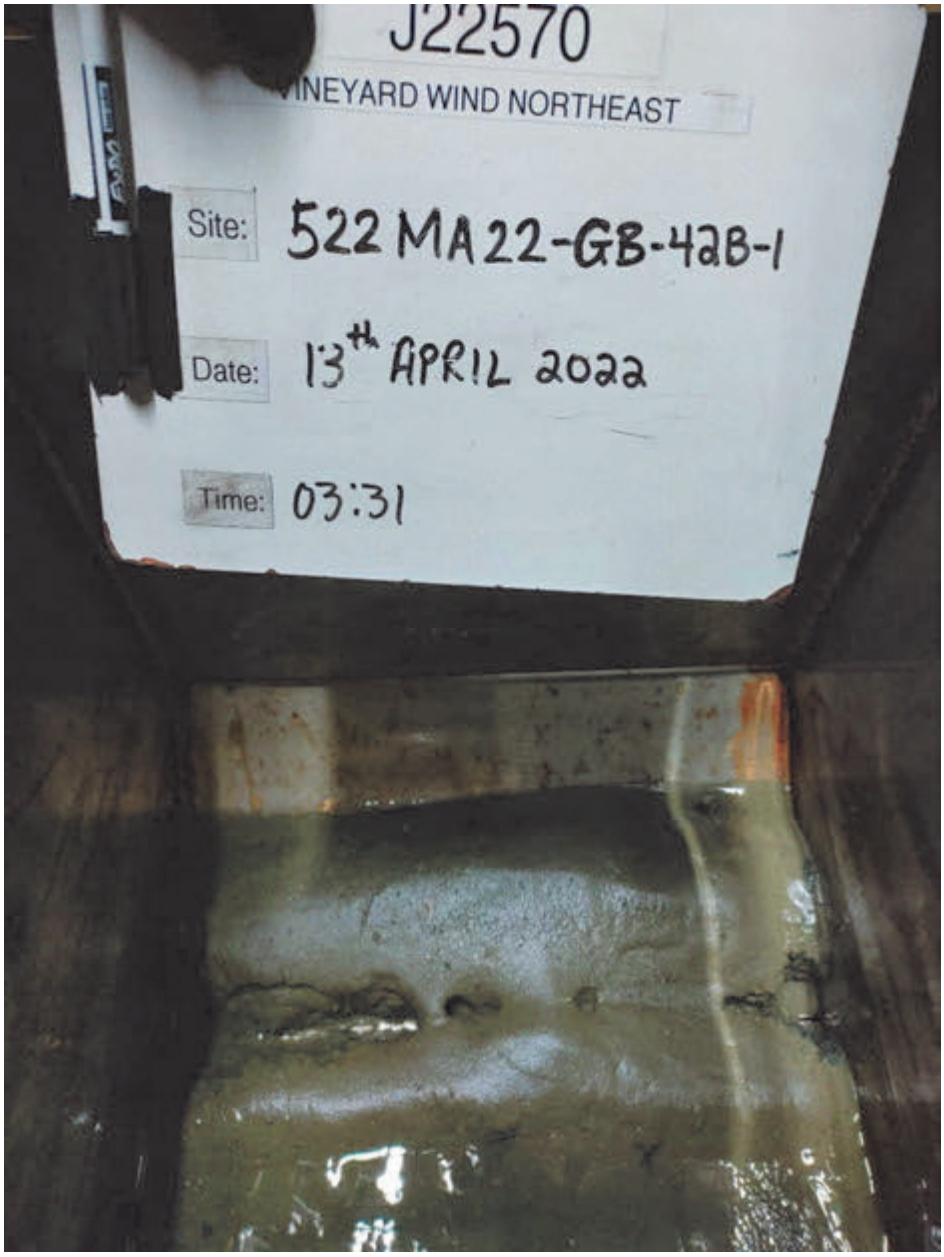

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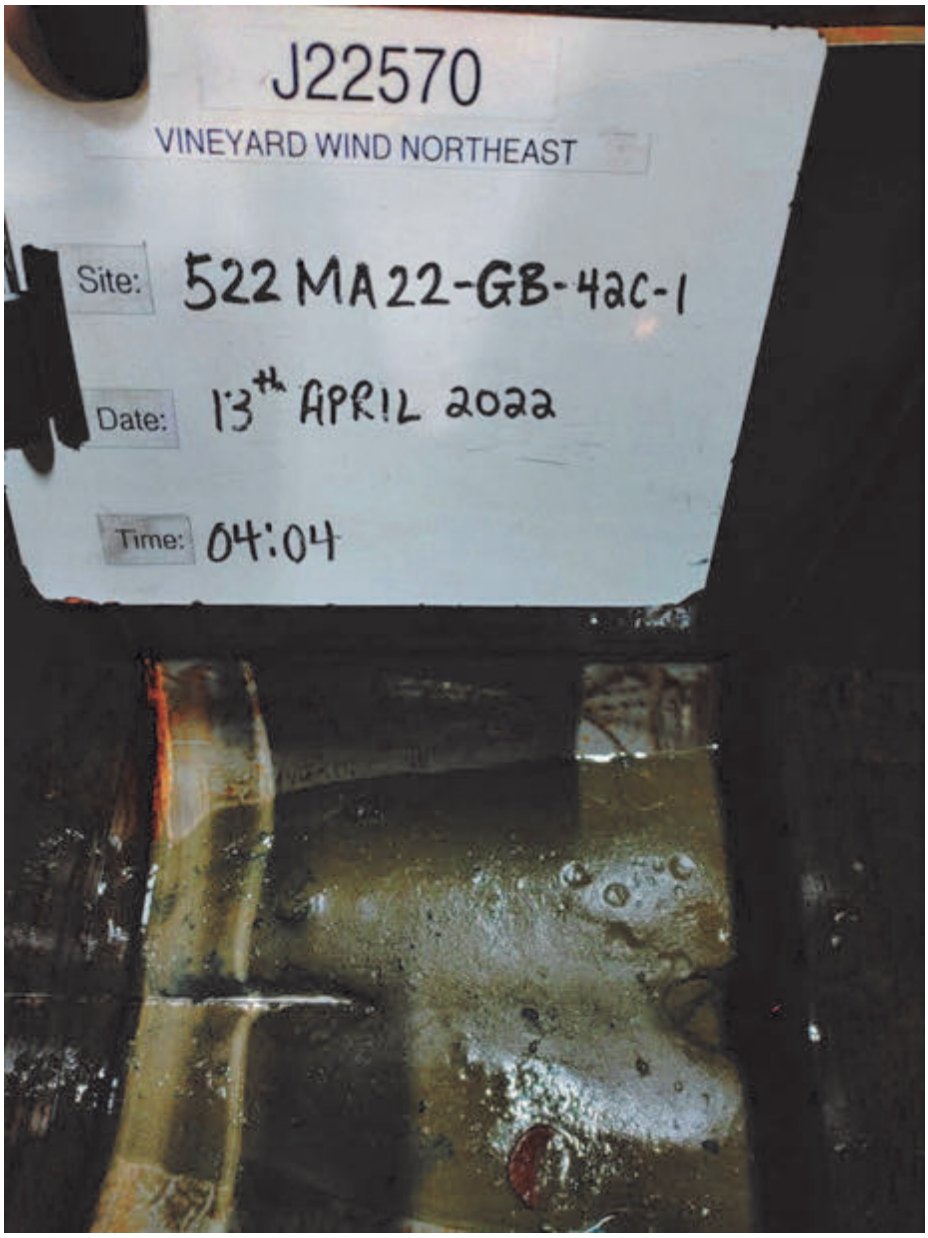

PHOTO INFORMATION

Sample ID 522MA22-GB043-1

PHOTO INFORMATION

Sample ID 522MA22-GB043-1

PHOTO INFORMATION

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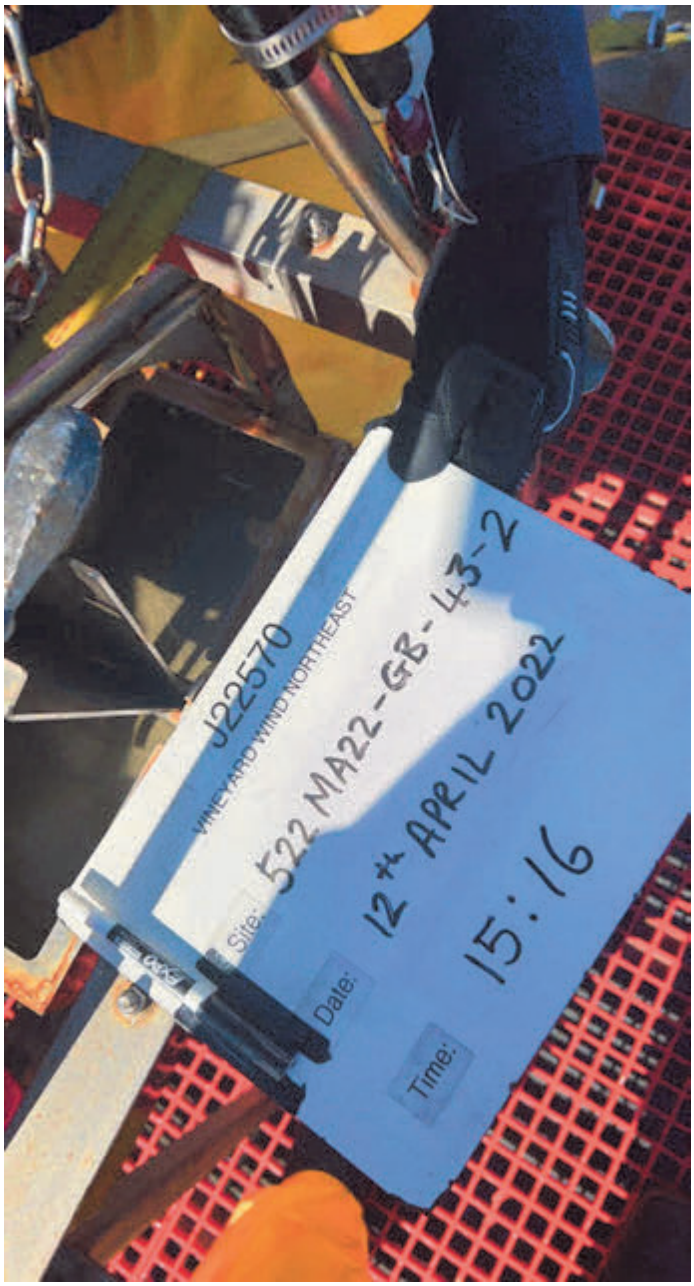

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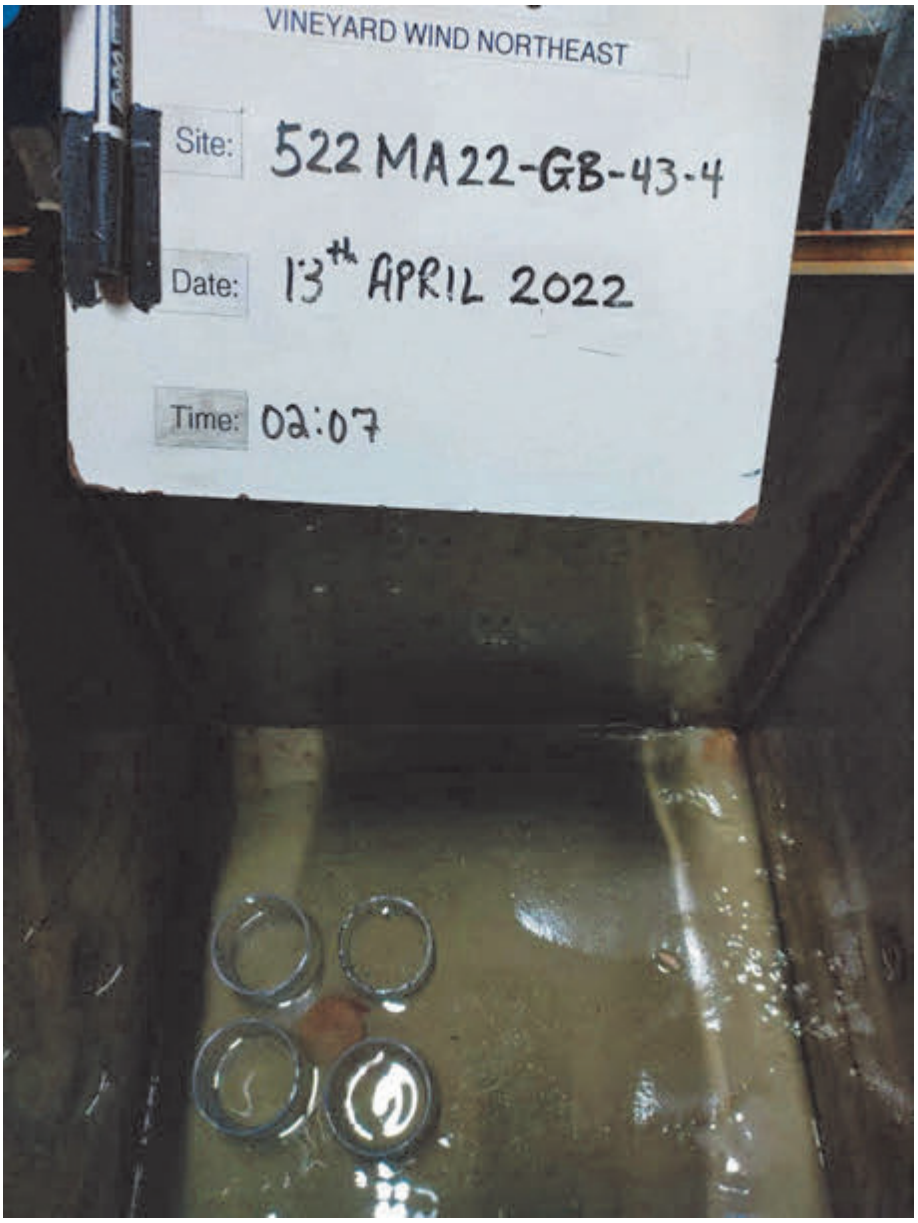

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Sample ID 522MA22-GB044A-1

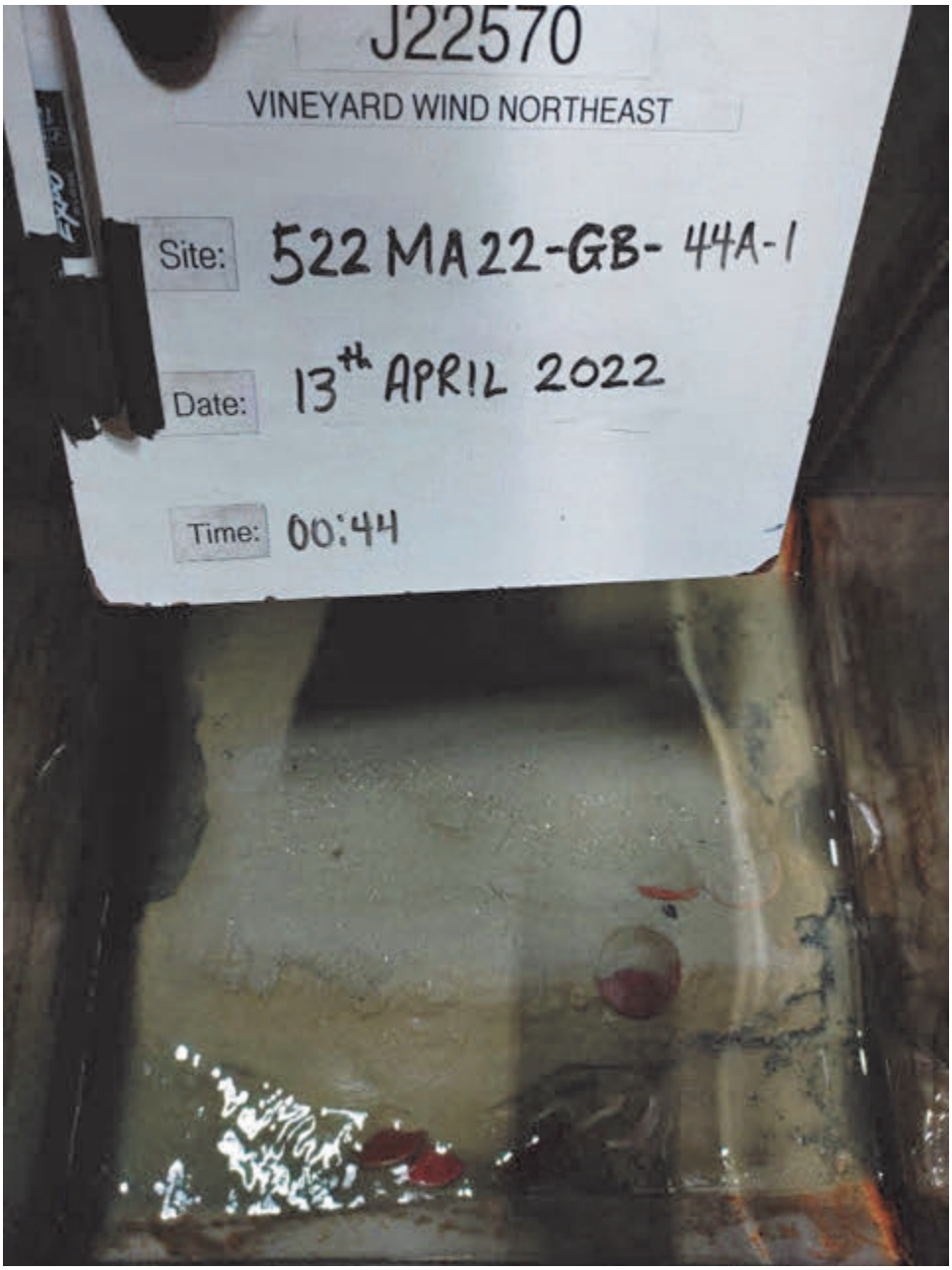


PHOTO INFORMATION

Sample ID 522MA22-GB044B-1

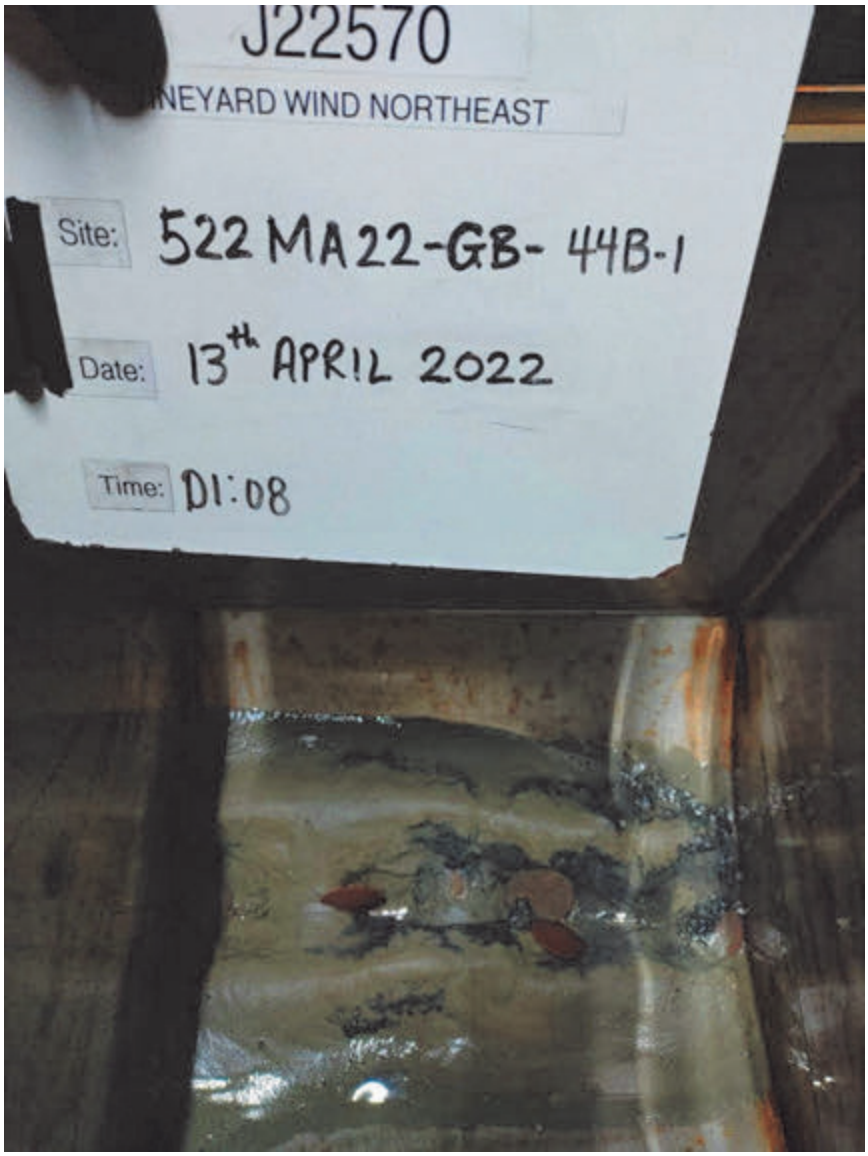


PHOTO INFORMATION

Sample ID 522MA22-GB044C-1

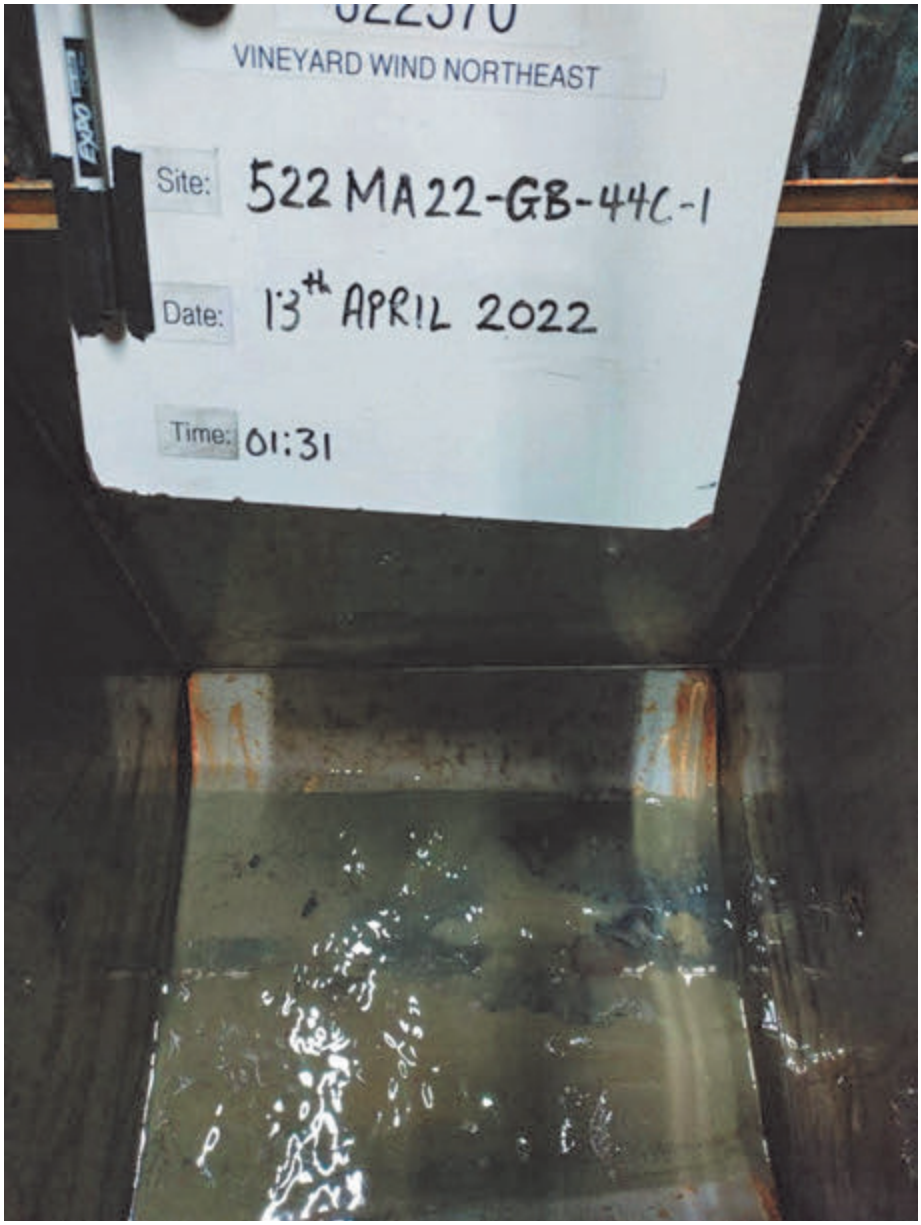


PHOTO INFORMATION

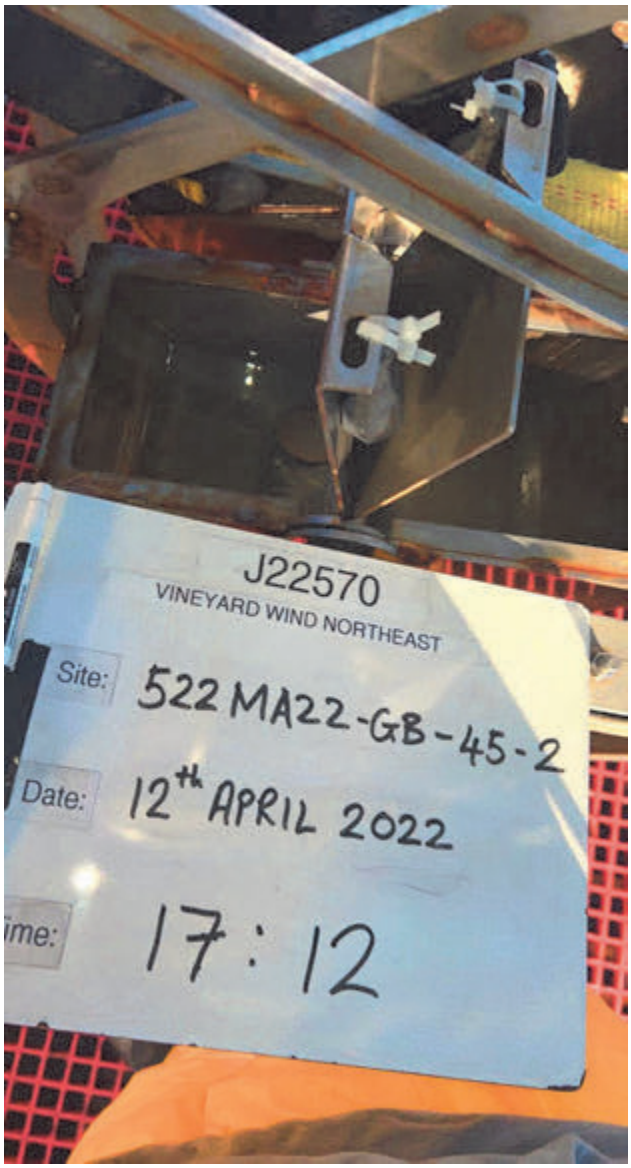
Sample ID 522MA22-GB045-1

PHOTO INFORMATION

Sample ID 522MA22-GB045-1

PHOTO INFORMATION

Sample ID 522MA22-GB045-2



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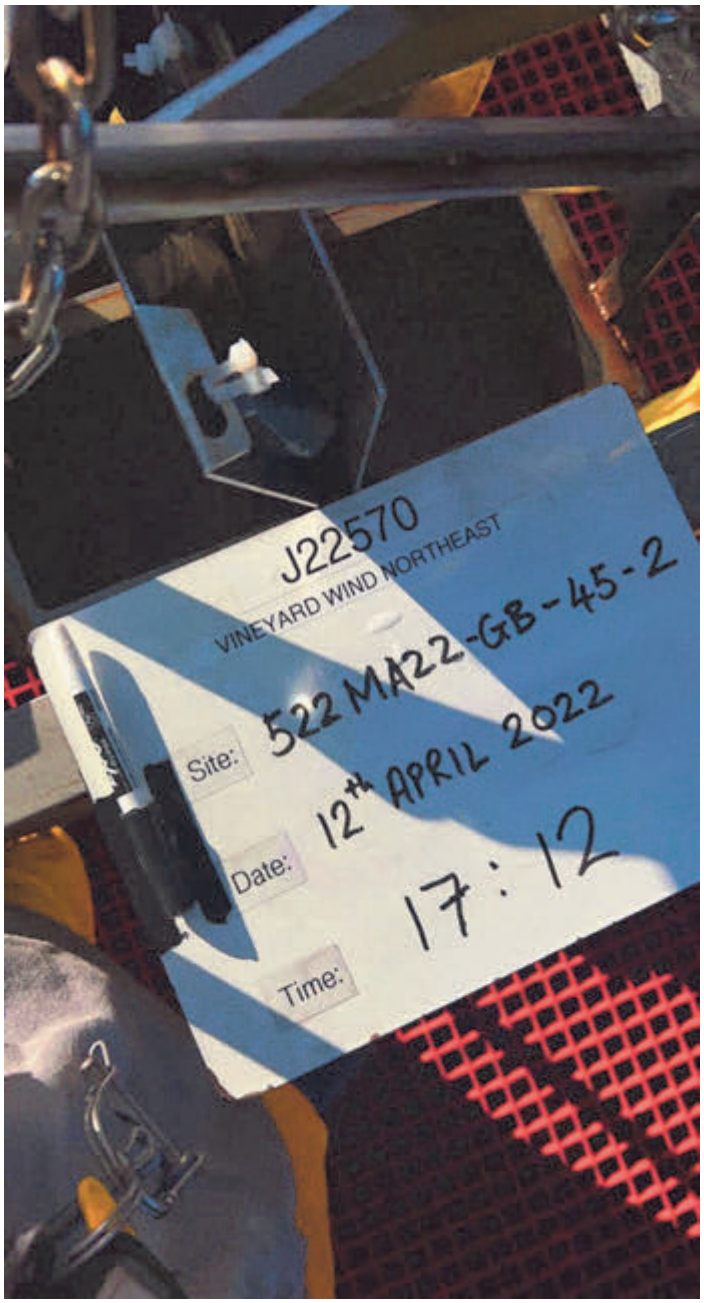
Sample ID 522MA22-GB045-2



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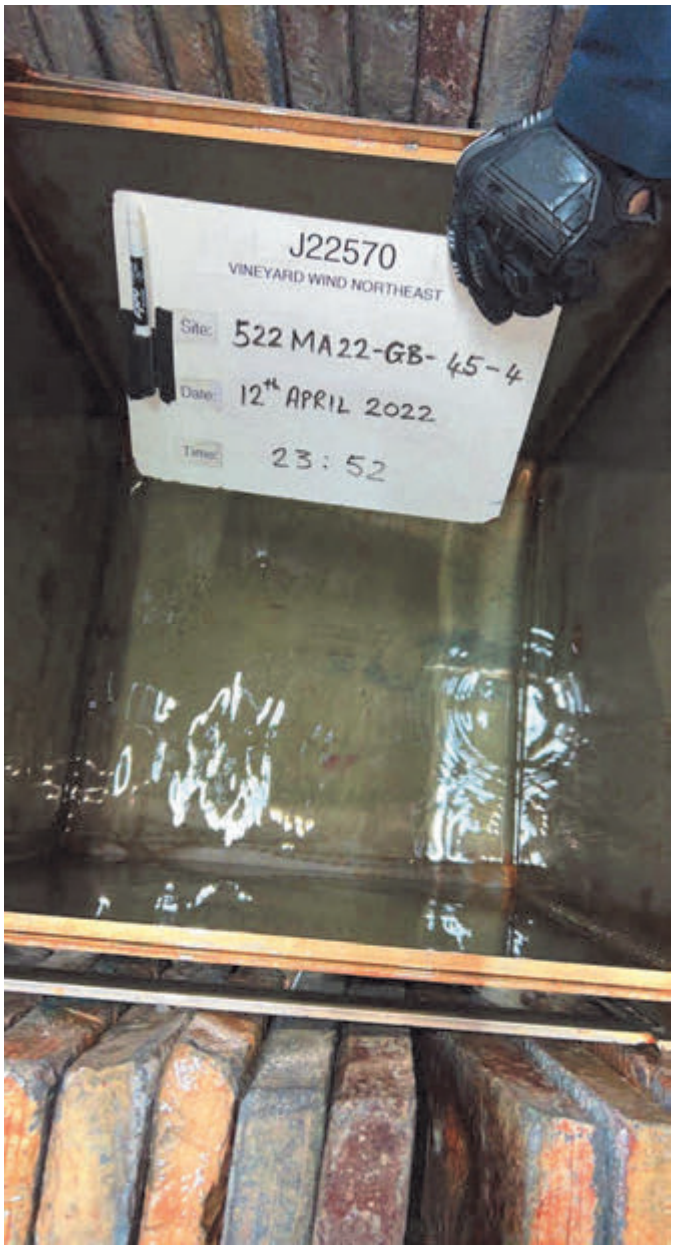


PHOTO INFORMATION

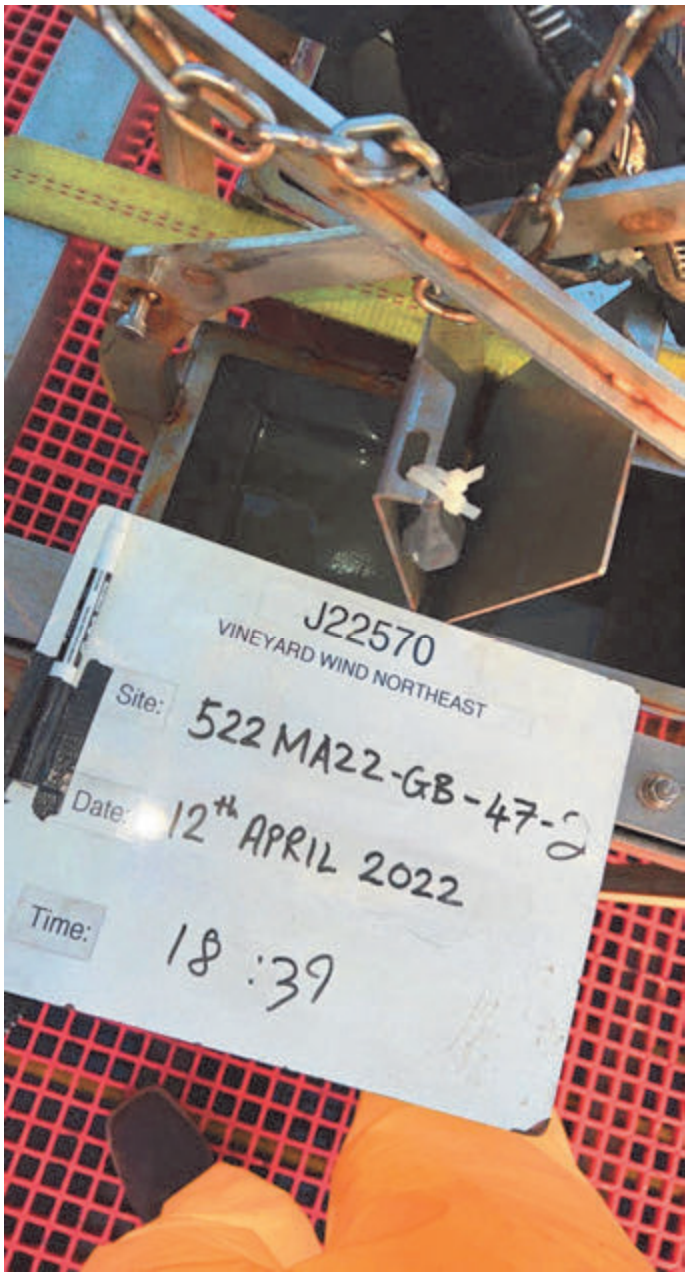
Sample ID 522MA22-GB046A-1

PHOTO INFORMATION

Sample ID 522MA22-GB046A-1

PHOTO INFORMATION

Sample ID 522MA22-GB047-2



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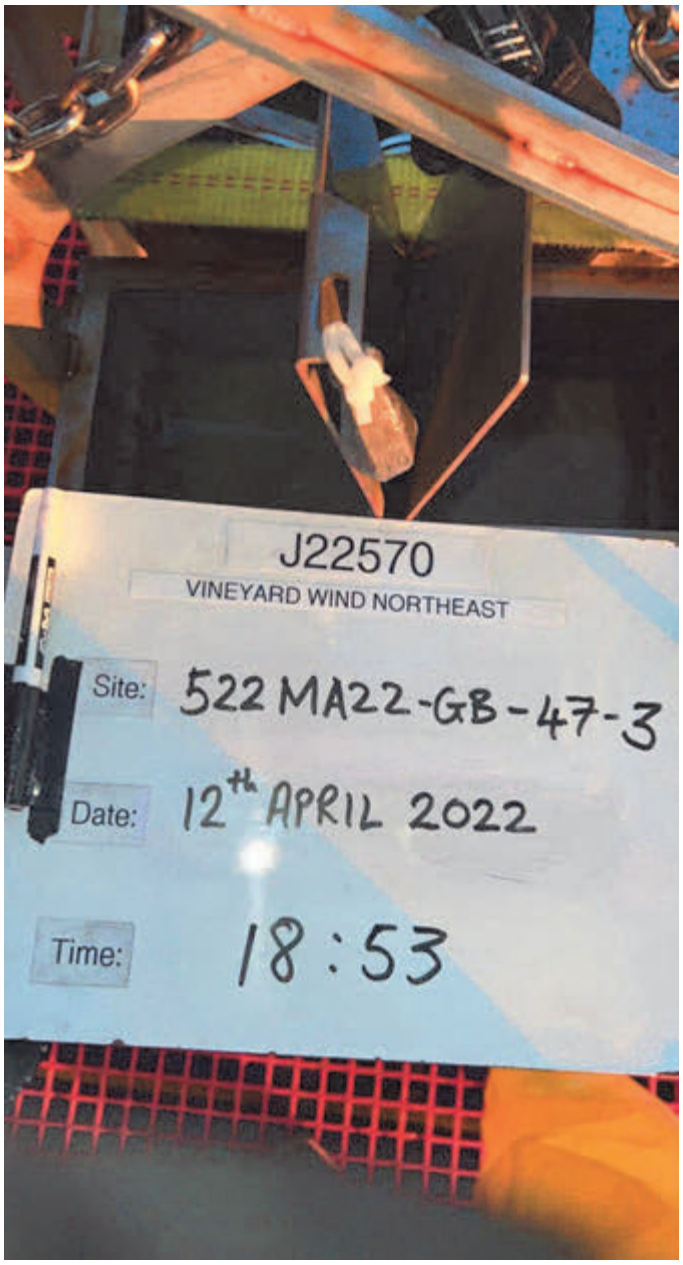
Sample ID 522MA22-GB047-2

PHOTO INFORMATION

Sample ID 522MA22-GB047-3



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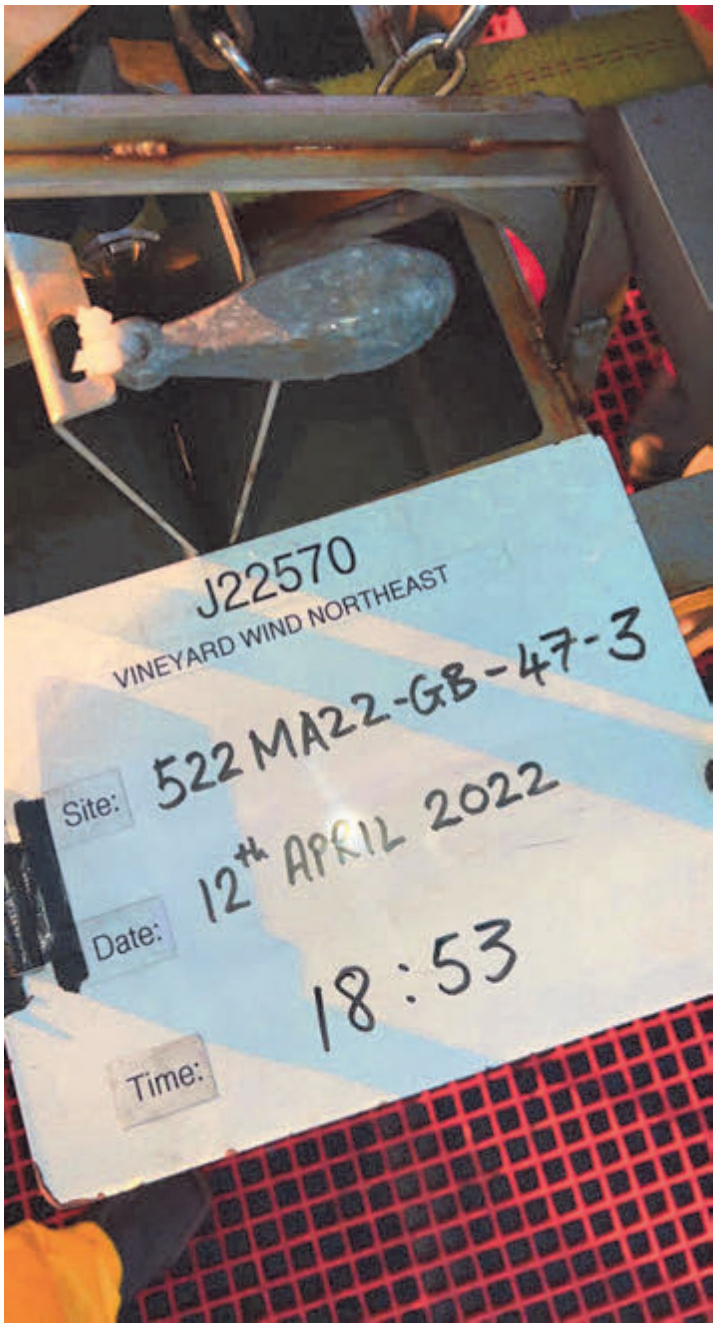

PHOTO INFORMATION

Sample ID 522MA22-GB048A-1

PHOTO INFORMATION

Sample ID 522MA22-GB048B-1

PHOTO INFORMATION

Sample ID 522MA22-GB048C-1

PHOTO INFORMATION

Sample ID 522MA22-GB049A-1

PHOTO INFORMATION

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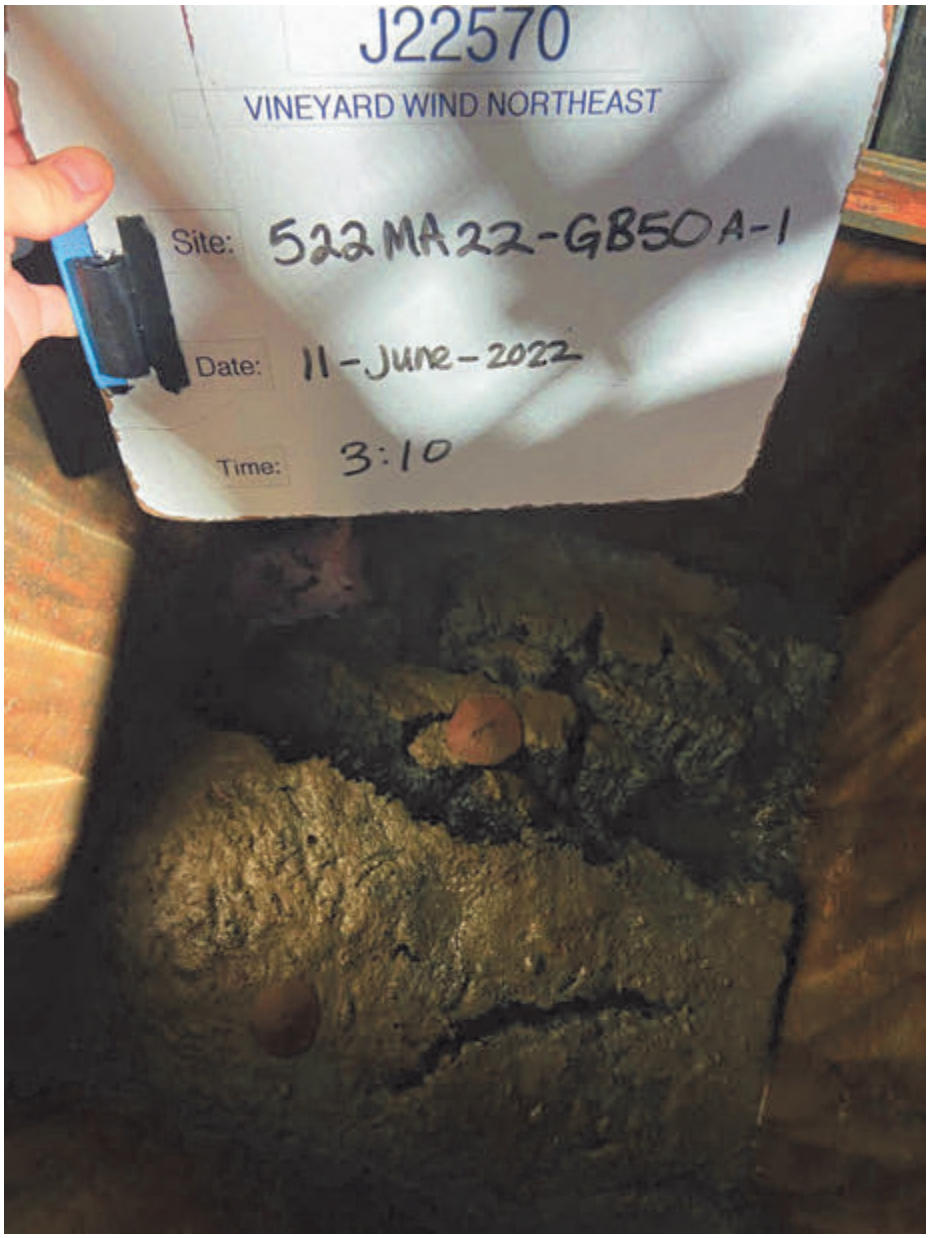

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Sample ID 522MA22-GB050B-1

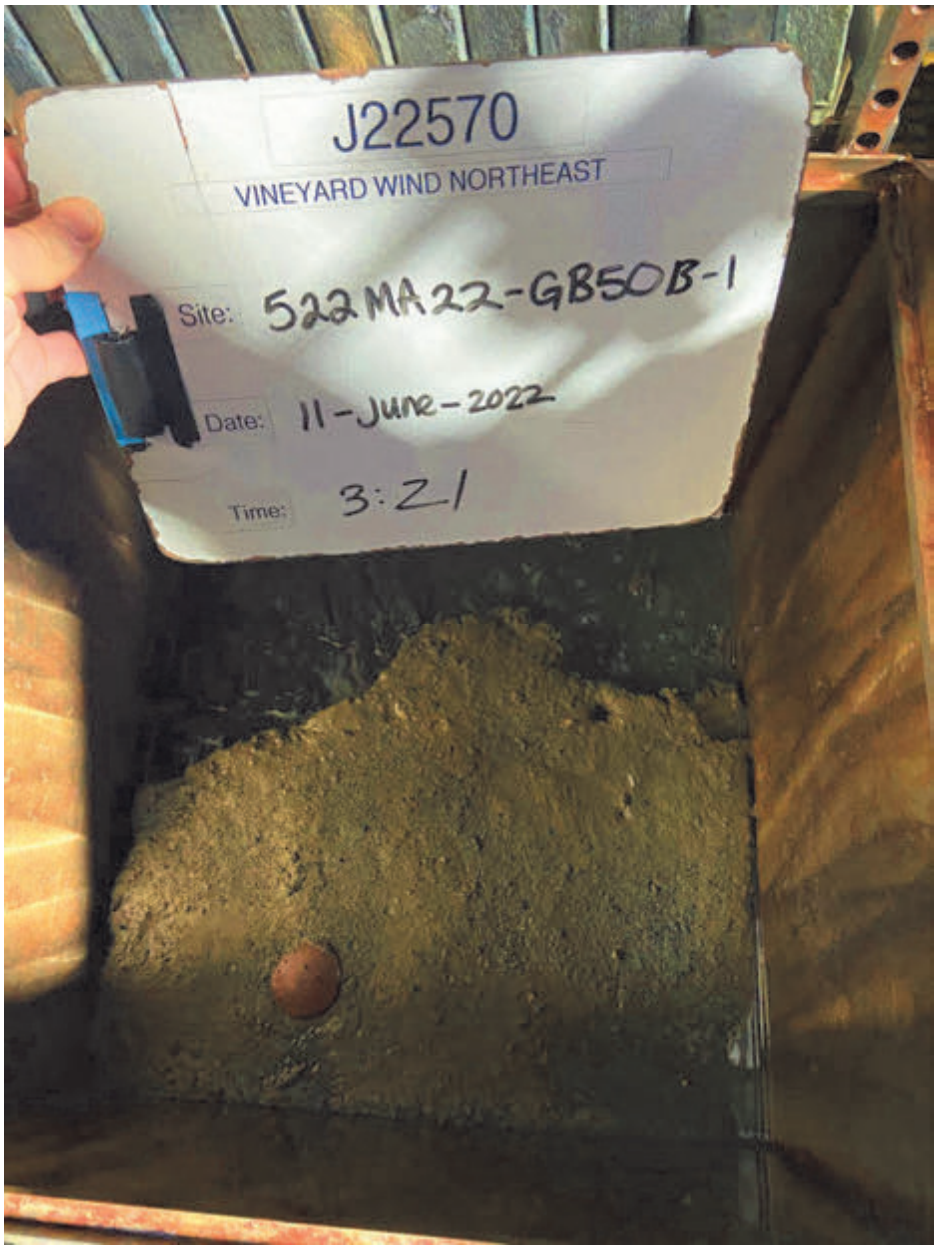
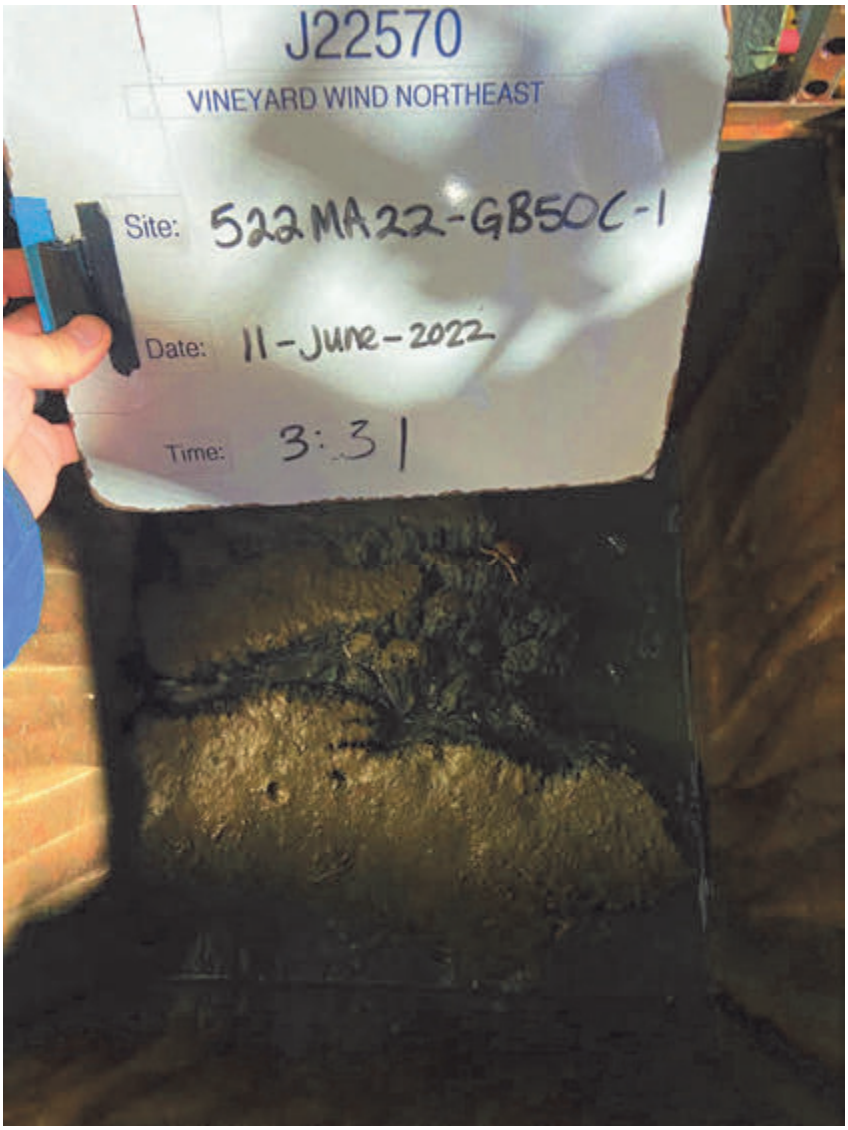


PHOTO INFORMATION

Sample ID 522MA22-GB050C-1



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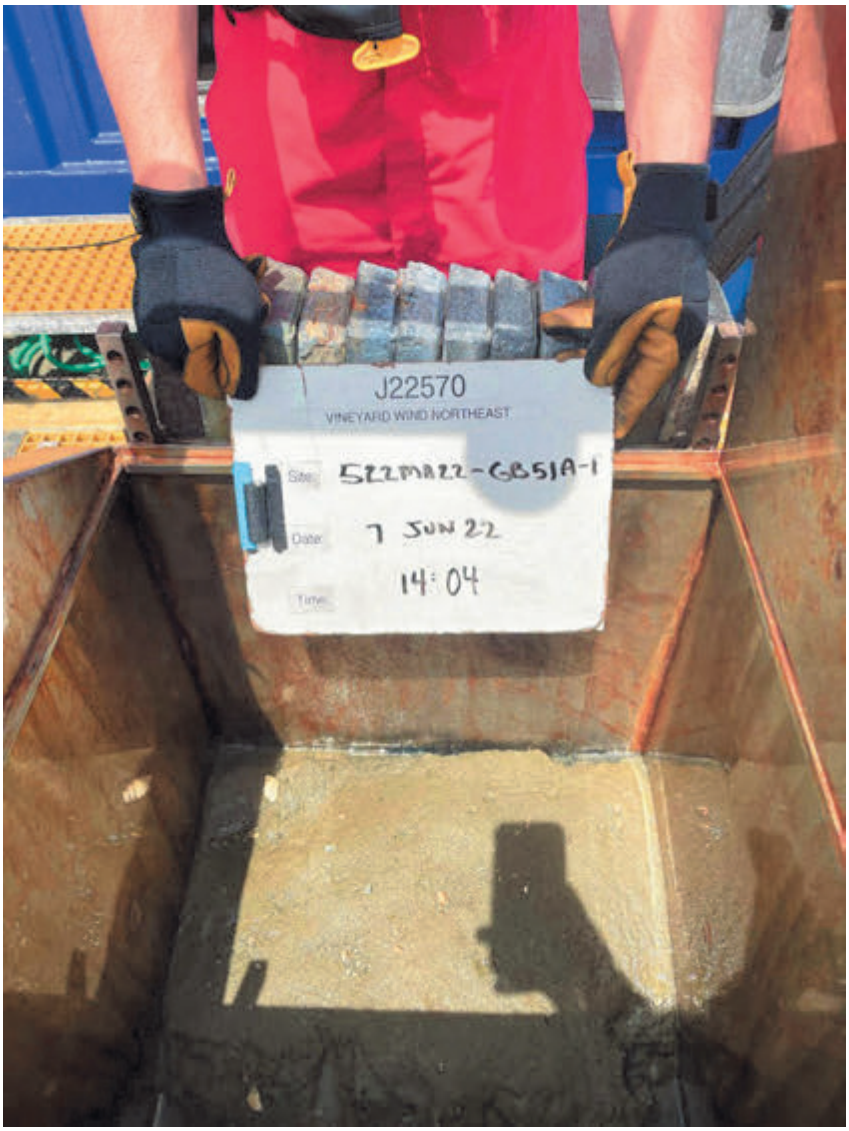

PHOTO INFORMATION

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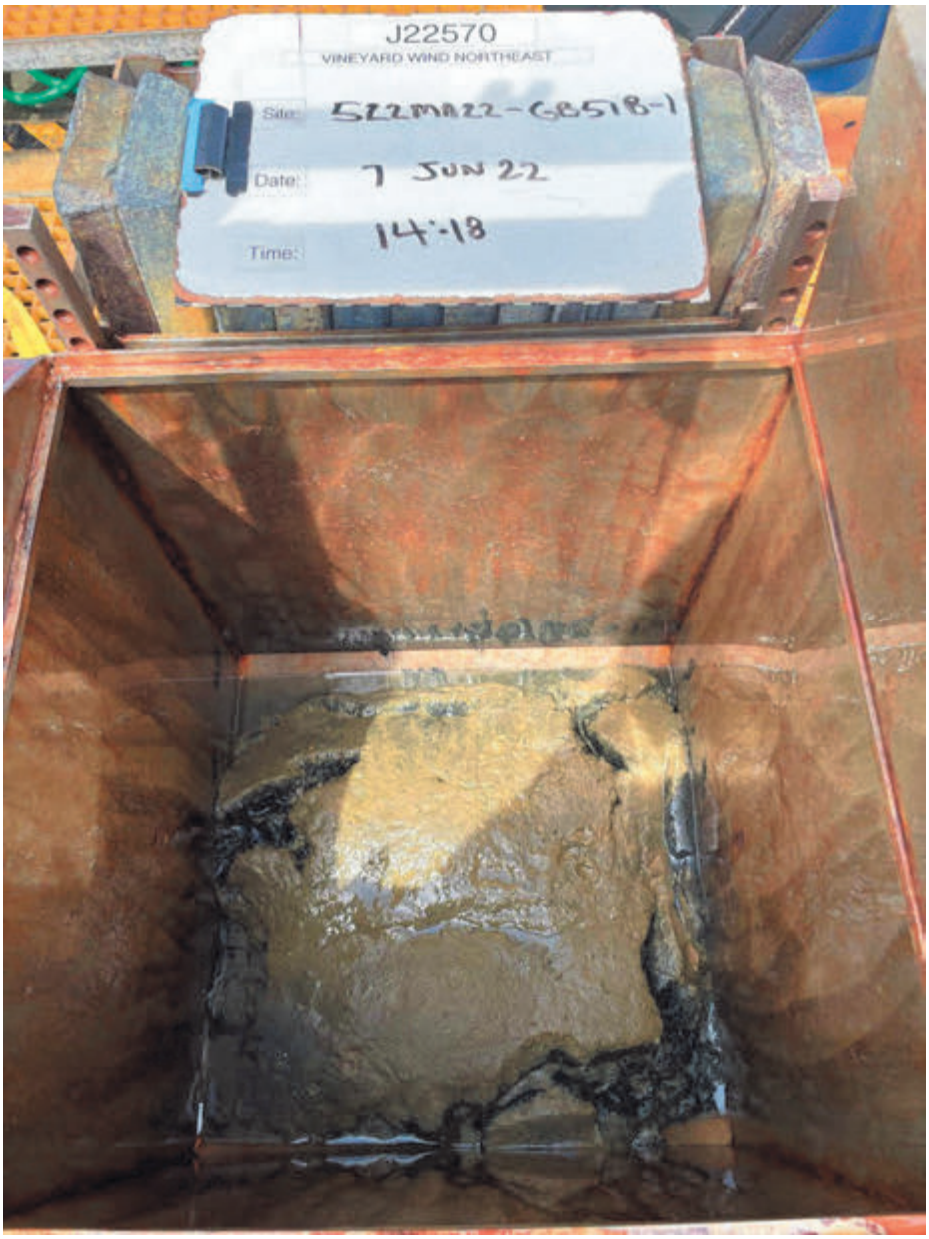

PHOTO INFORMATION

Sample ID 522MA22-GB051C-1

PHOTO INFORMATION

Sample ID 522MA22-GB052A-1

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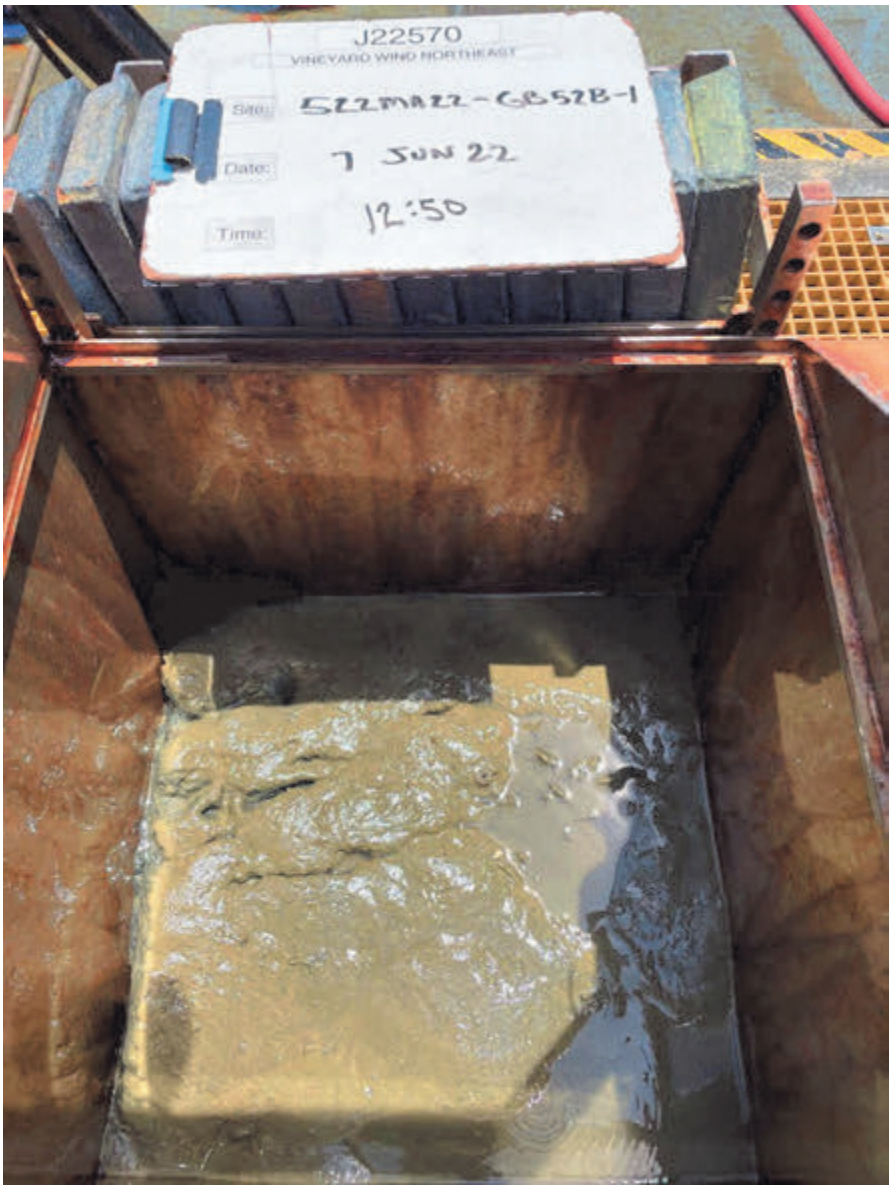

PHOTO INFORMATION

Sample ID 522MA22-GB052C-1

PHOTO INFORMATION

Sample ID 522MA22-GB053A-1

PHOTO INFORMATION

Sample ID 522MA22-GB053B-1

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Sample ID 522MA22-GB053C-1

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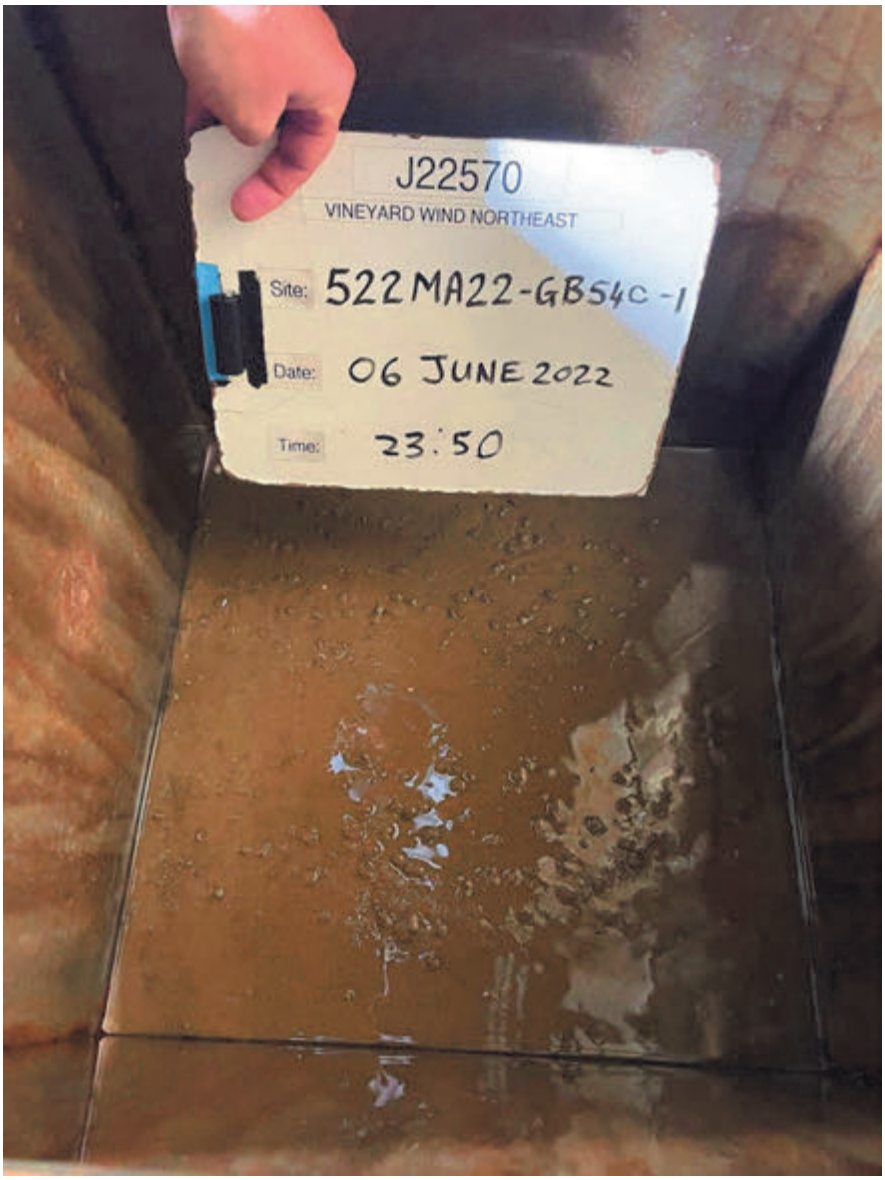

PHOTO INFORMATION

Sample ID 522MA22-GB055A-1

PHOTO INFORMATION

Sample ID 522MA22-GB055A-2

PHOTO INFORMATION

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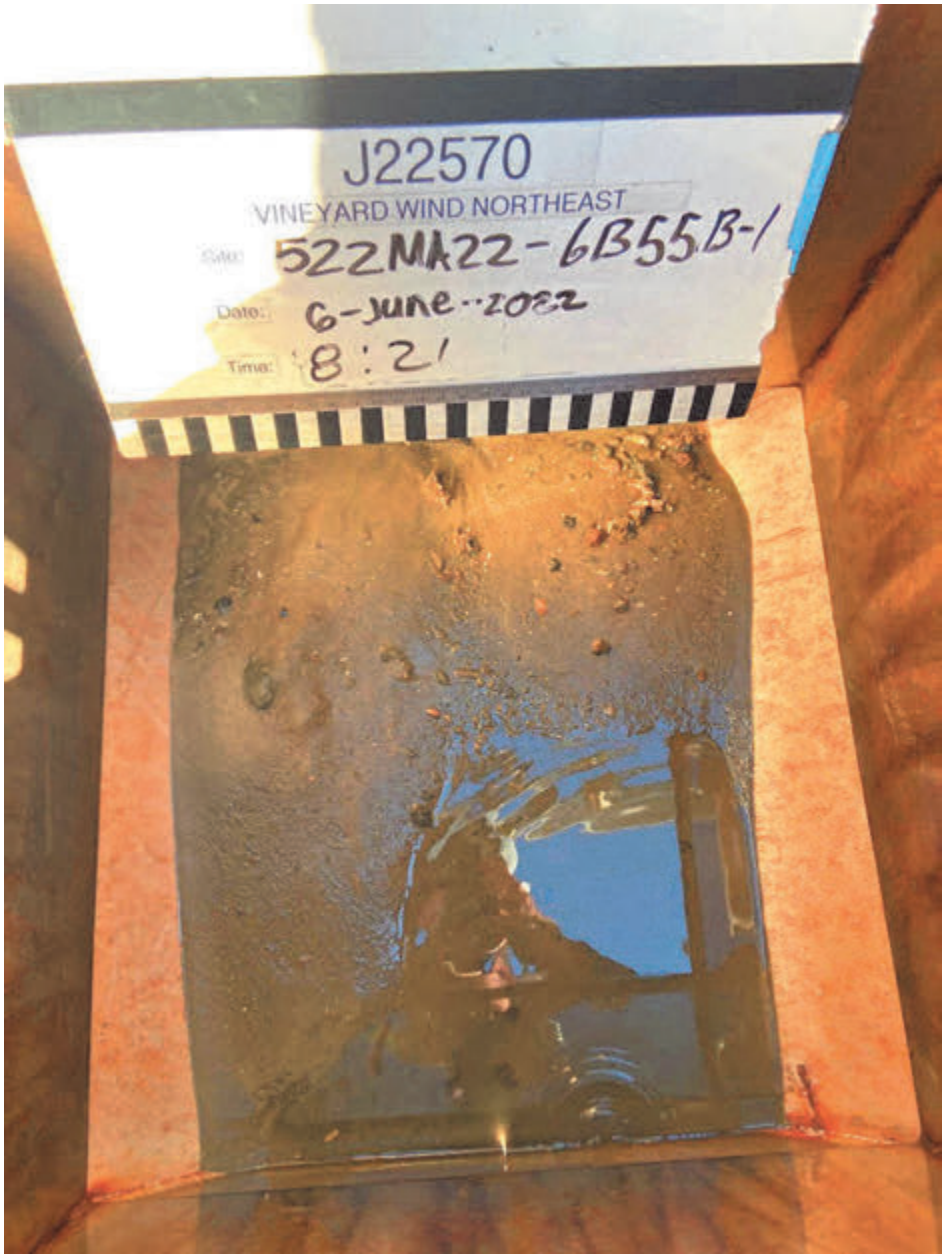

PHOTO INFORMATION

Sample ID 522MA22-GB055C-1

PHOTO INFORMATION

Sample ID 522MA22-GB056A-1

PHOTO INFORMATION

Sample ID 522MA22-GB056B-1

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Sample ID 522MA22-GB057A-1

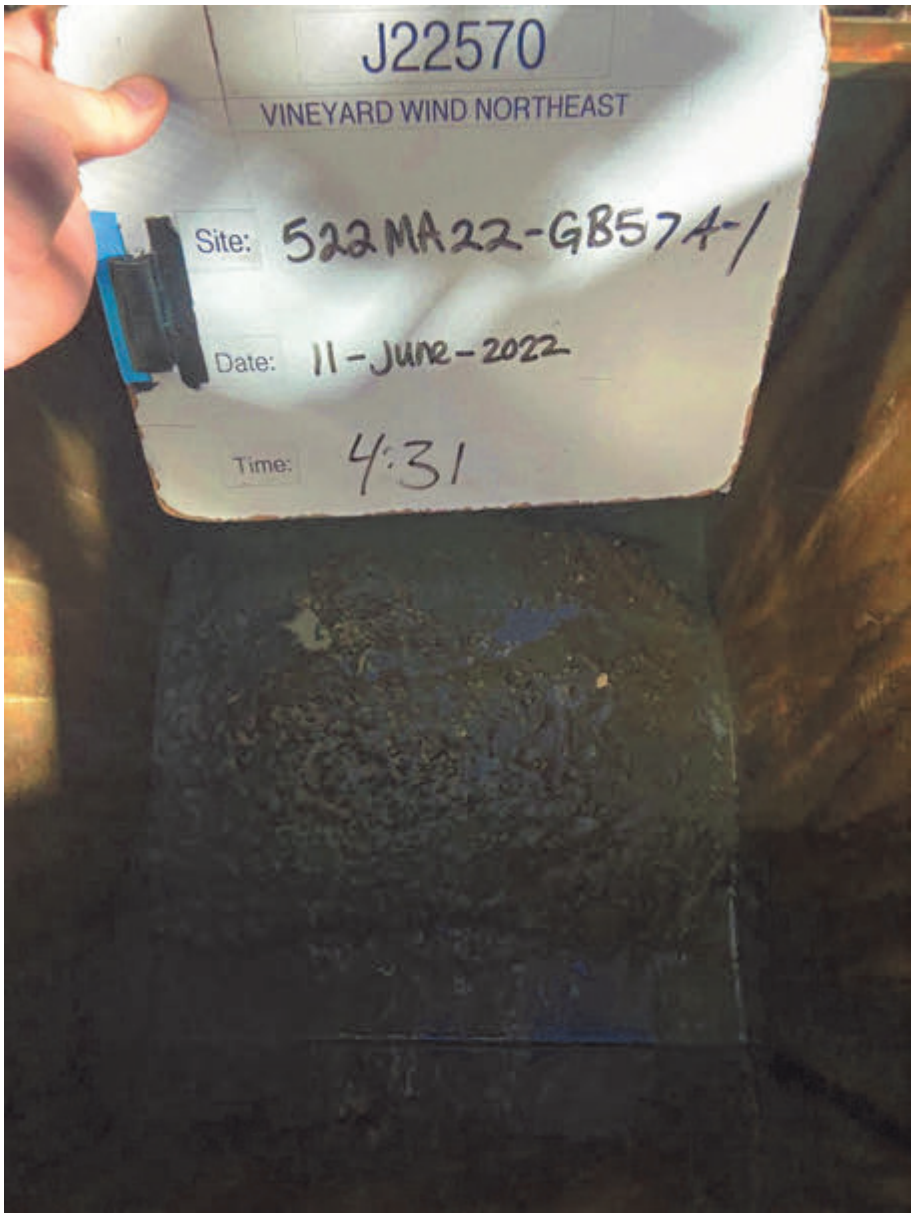

PHOTO INFORMATION

Sample ID 522MA22-GB057B-1

PHOTO INFORMATION

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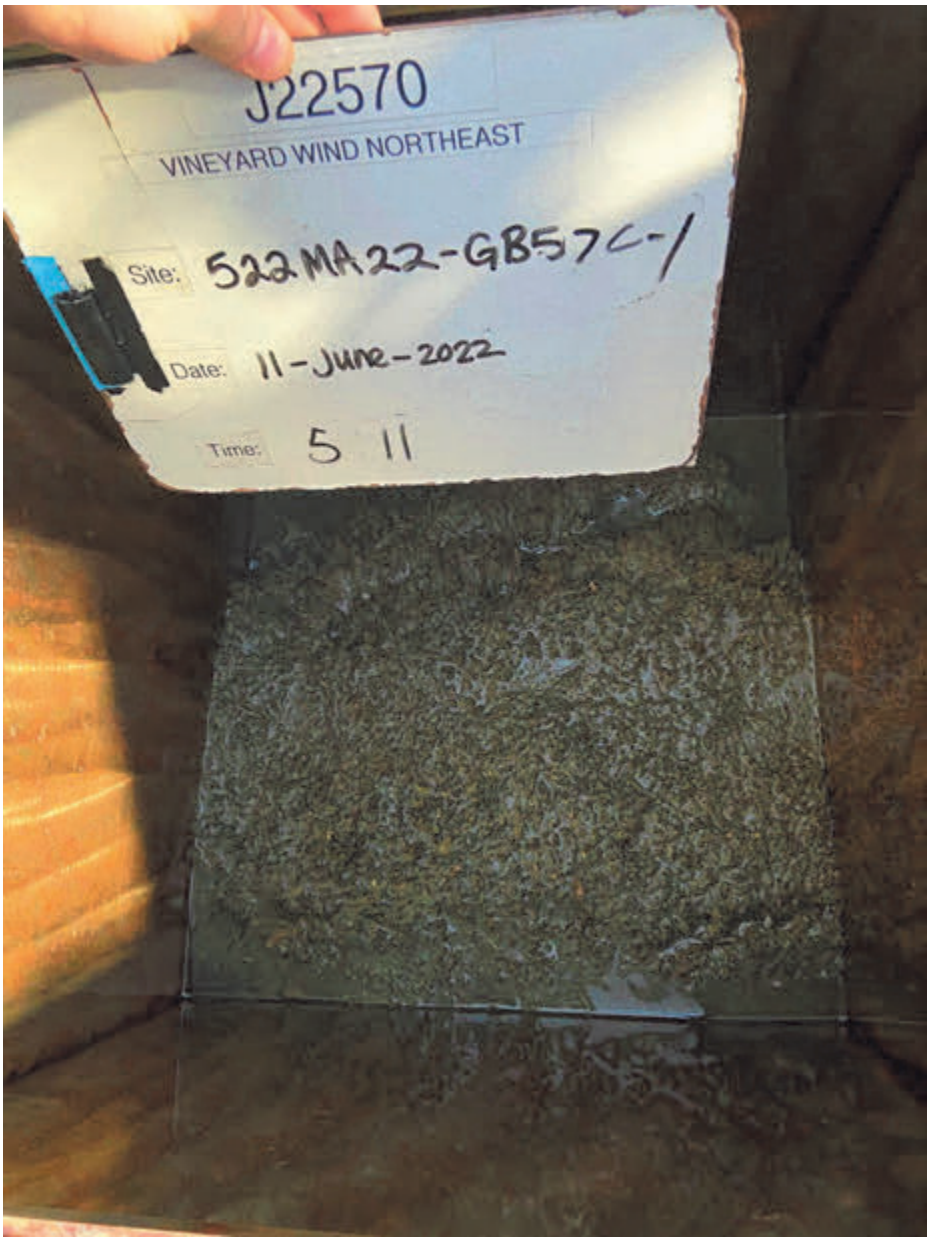

Appendix H-3: Benthic Grab Representative Deck Images: CT OECC

PHOTO INFORMATION

Sample ID 522CT22-GB001A-1

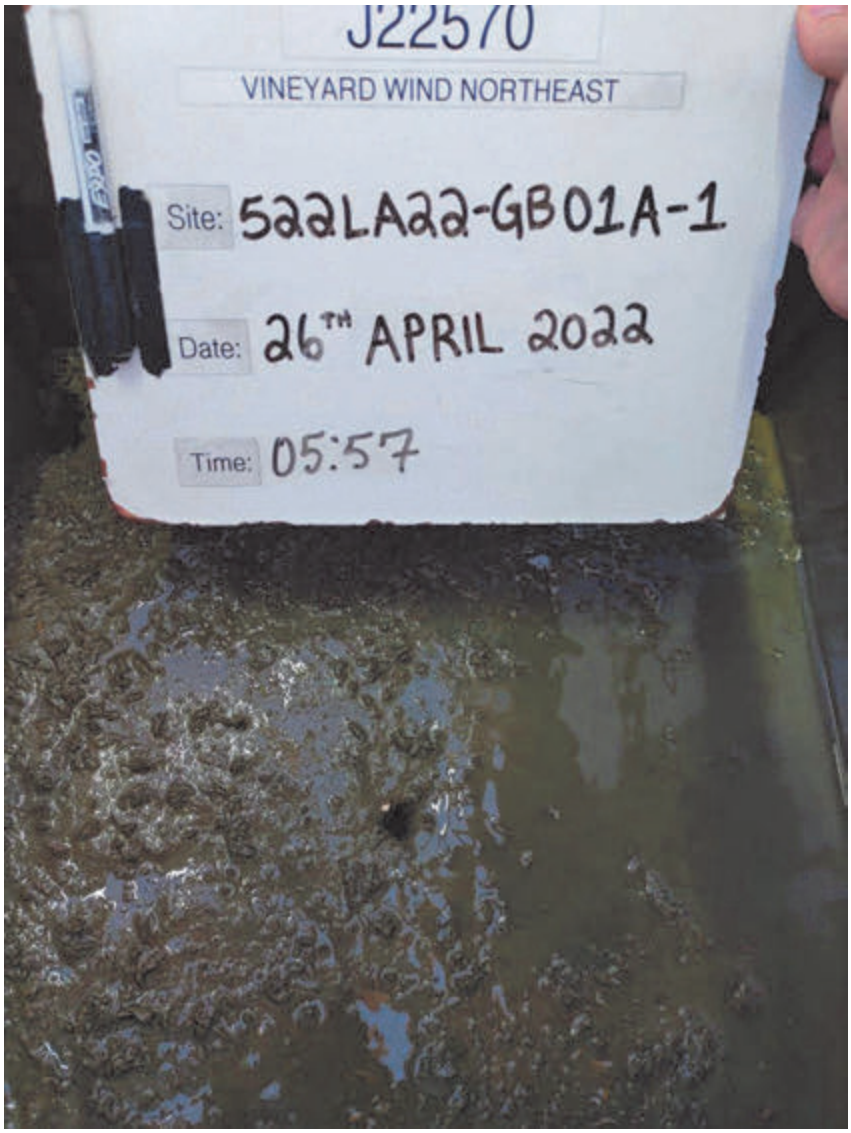

PHOTO INFORMATION

Sample ID 522CT22-GB001B-1

PHOTO INFORMATION

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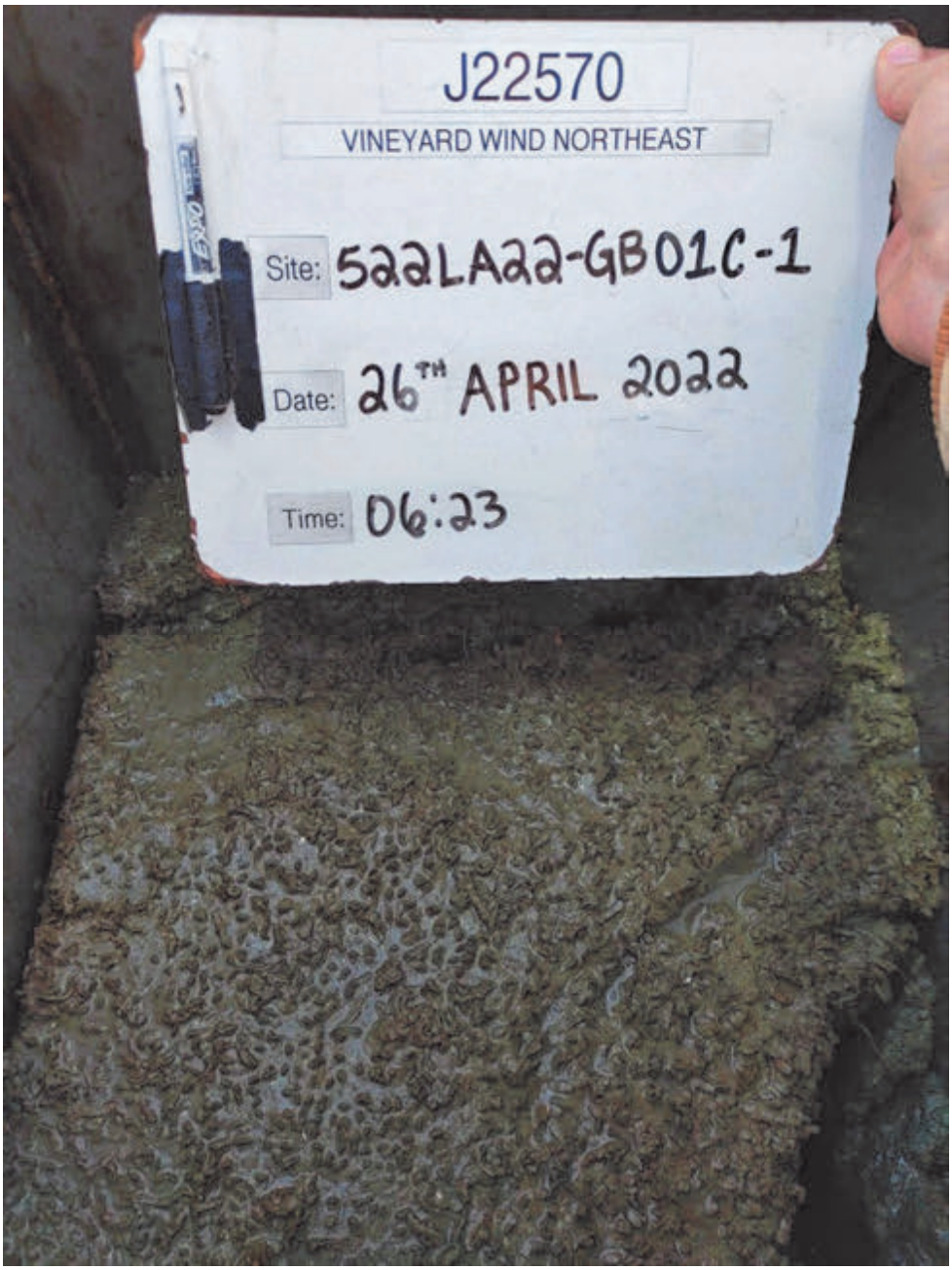

PHOTO INFORMATION

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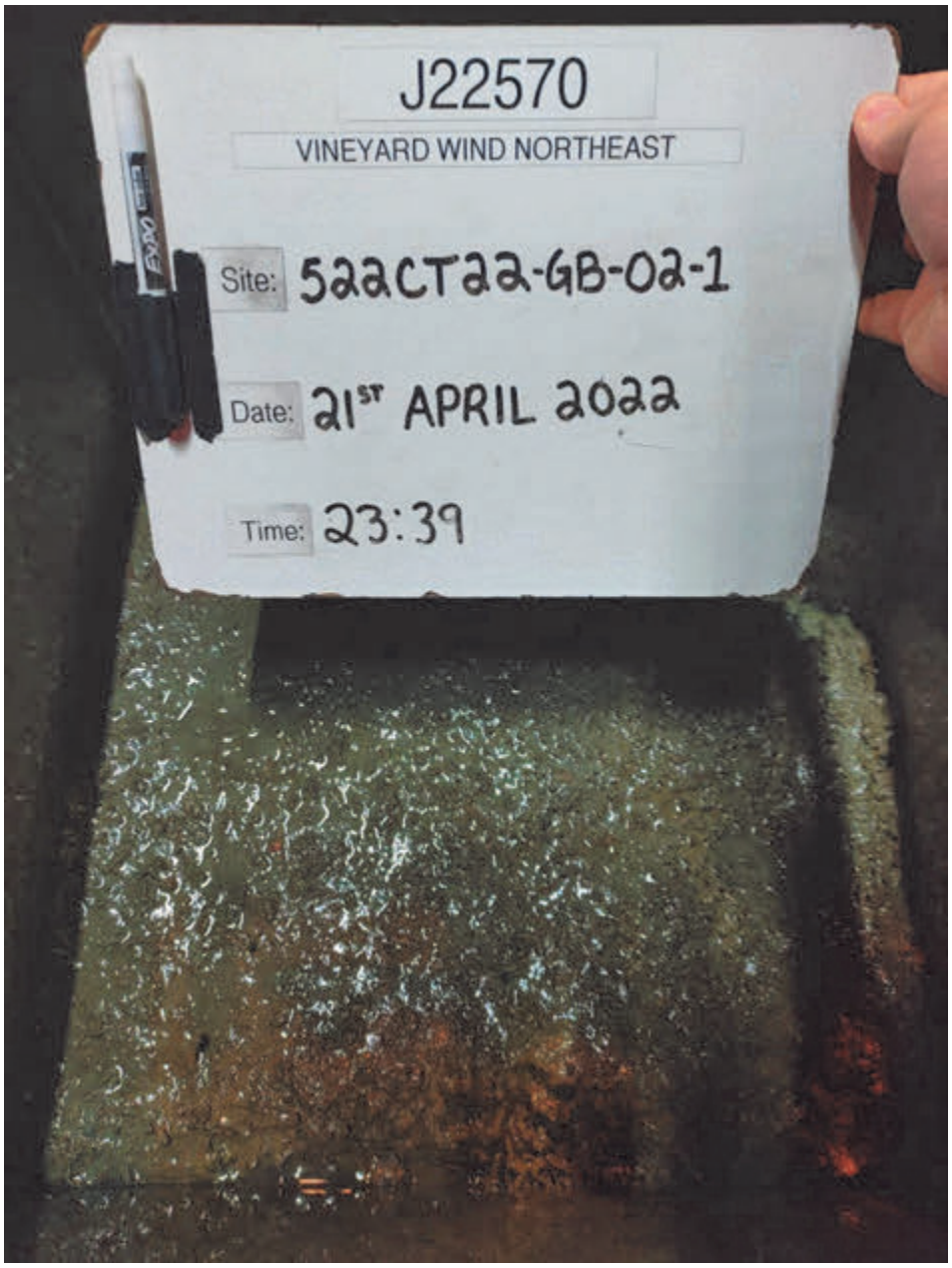

PHOTO INFORMATION

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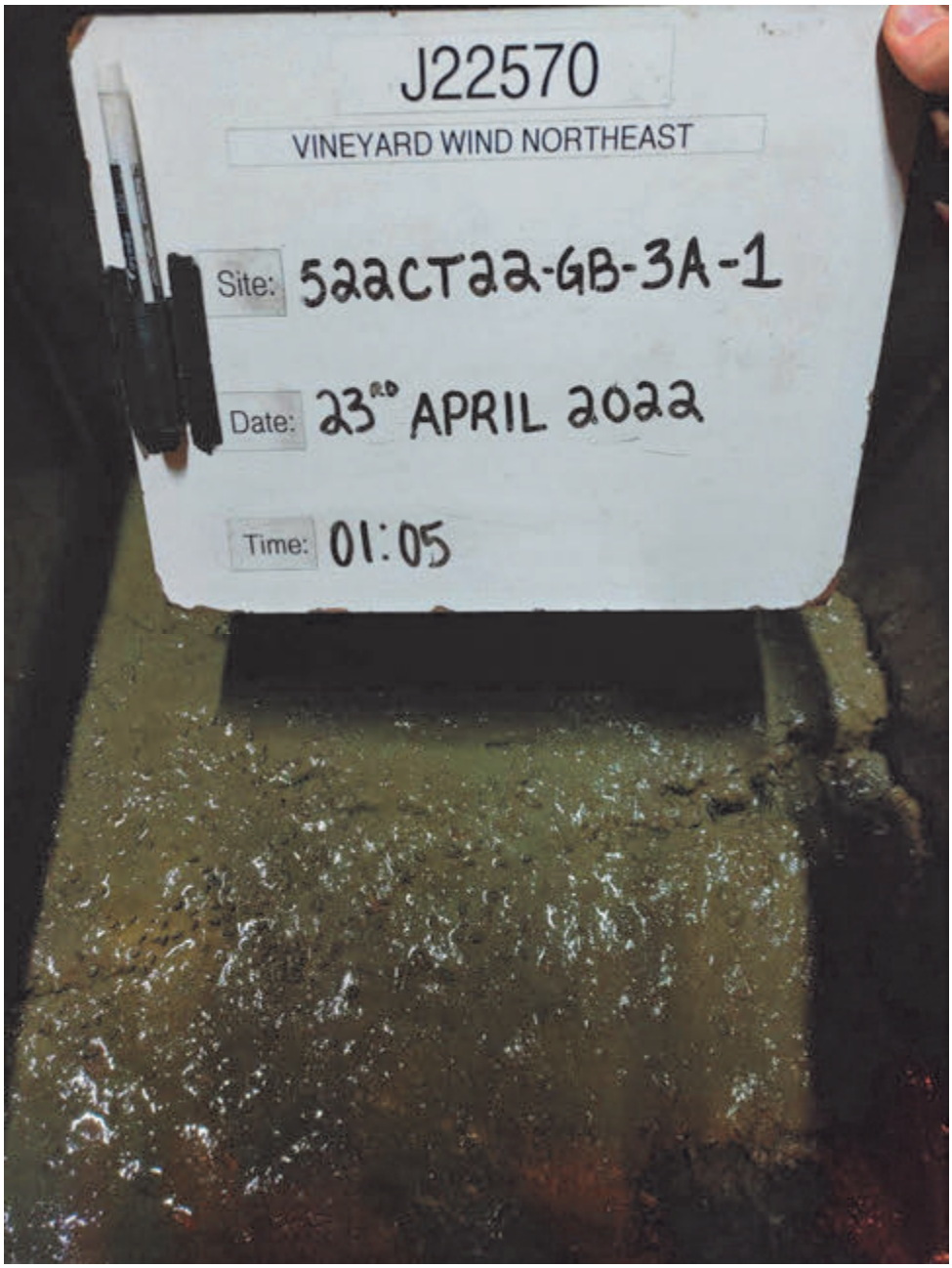

PHOTO INFORMATION

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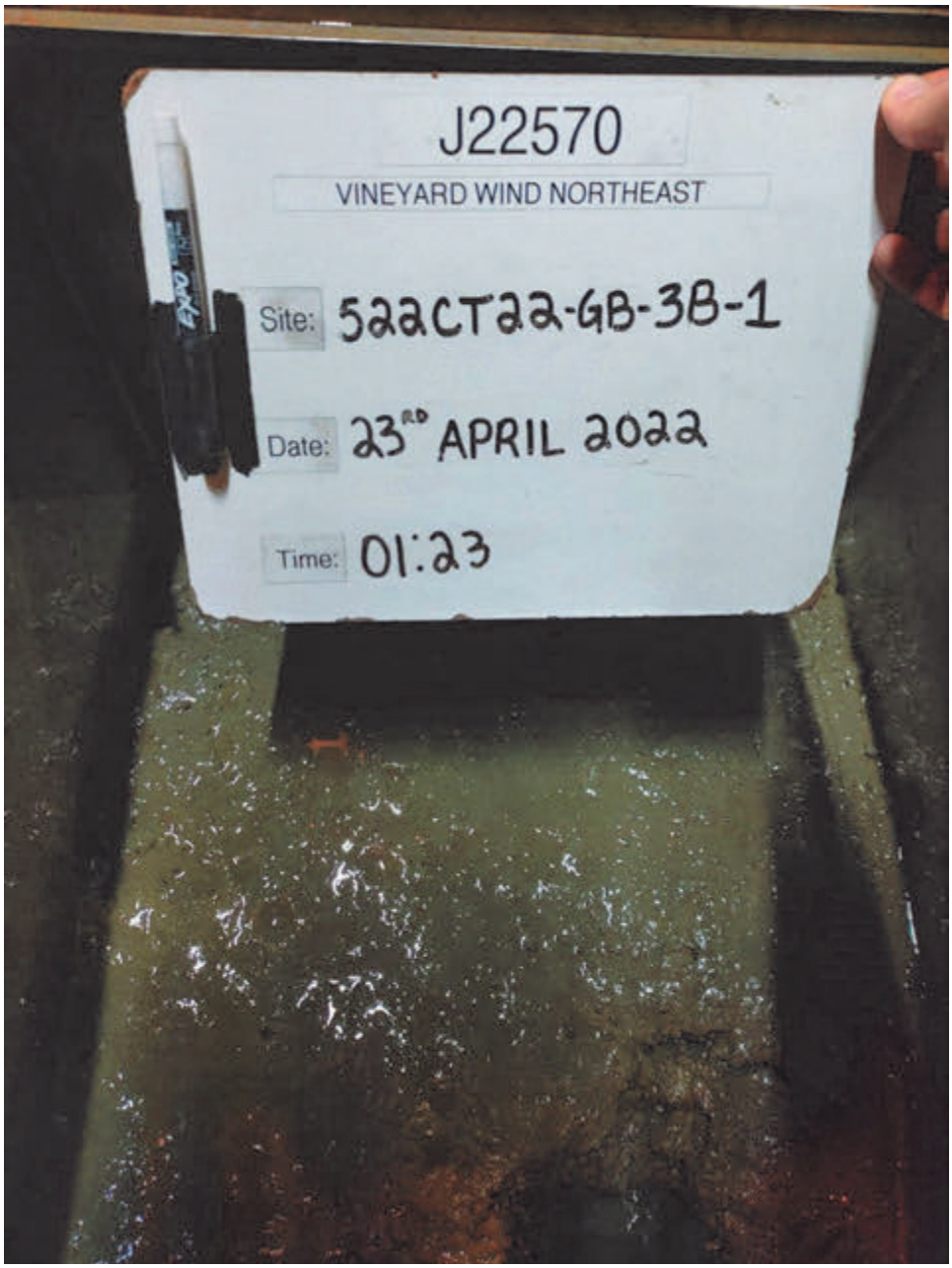

PHOTO INFORMATION

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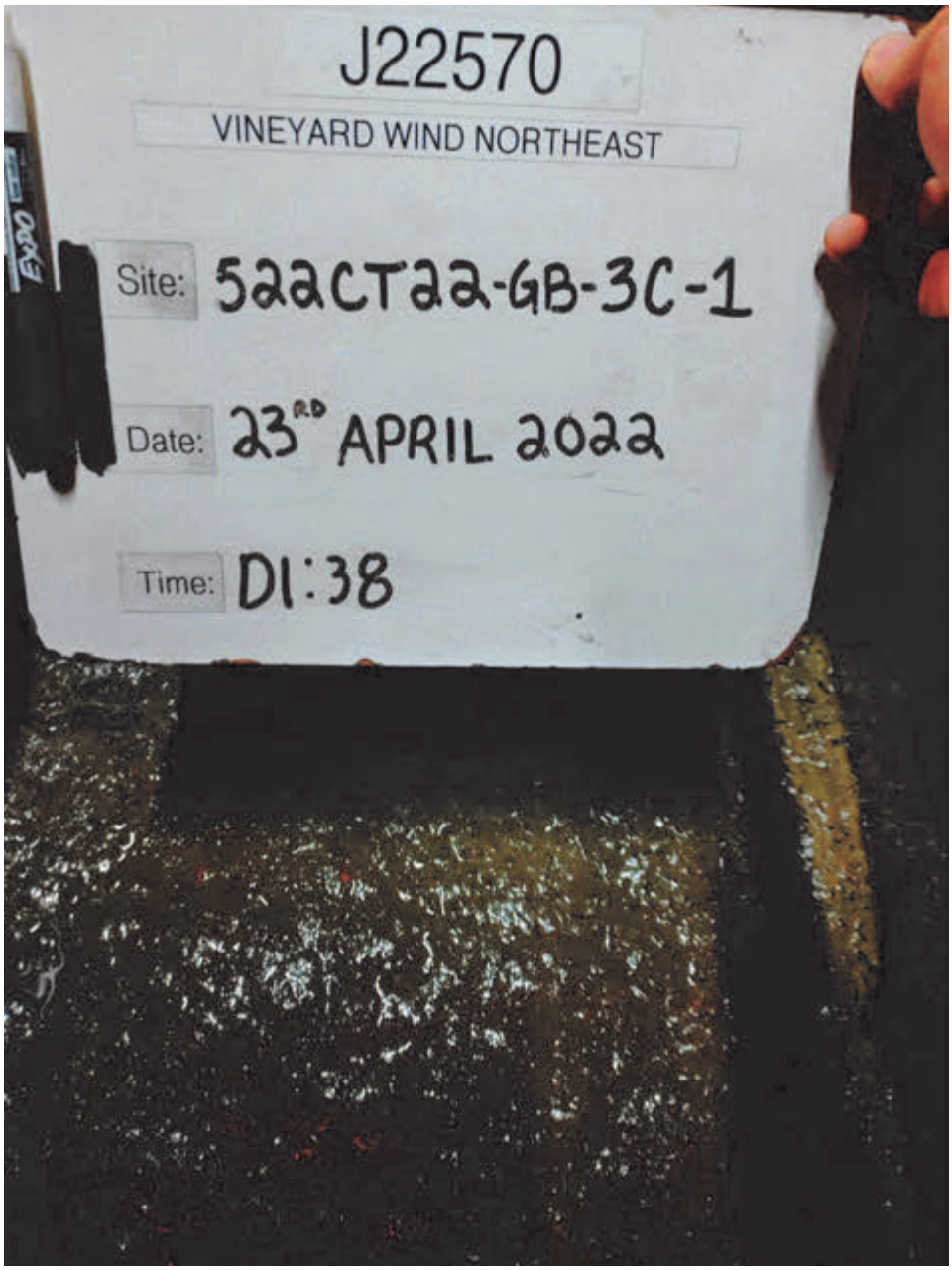

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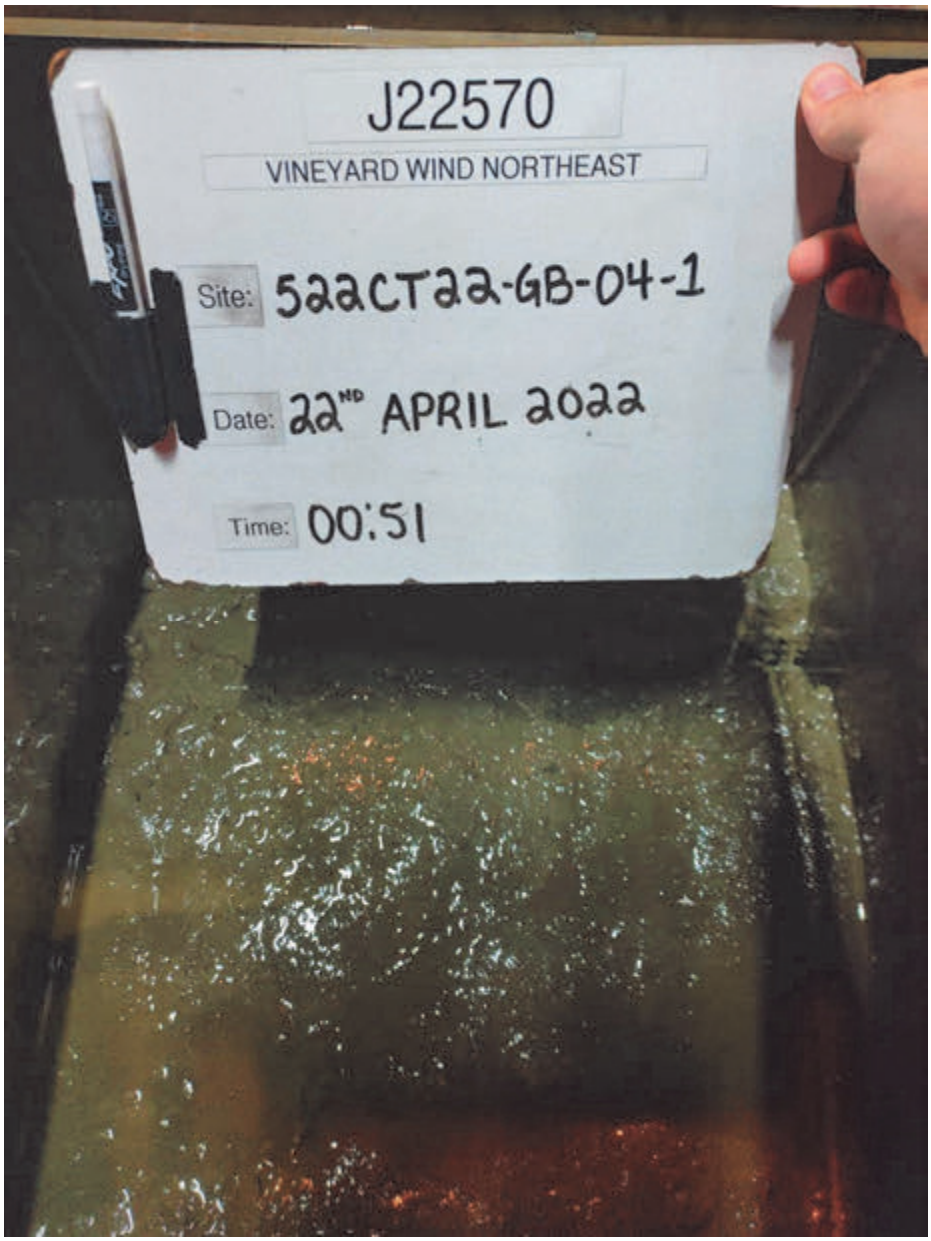

PHOTO INFORMATION

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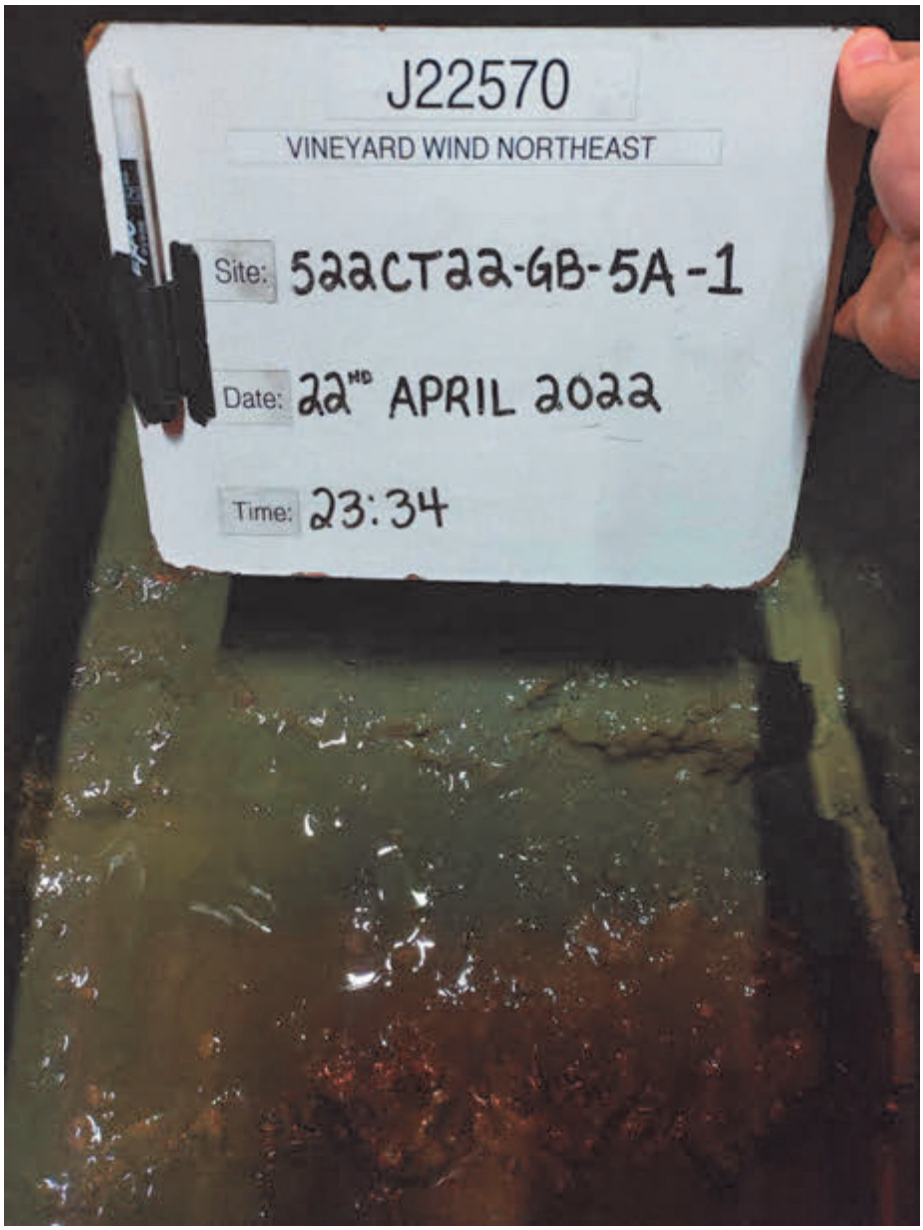

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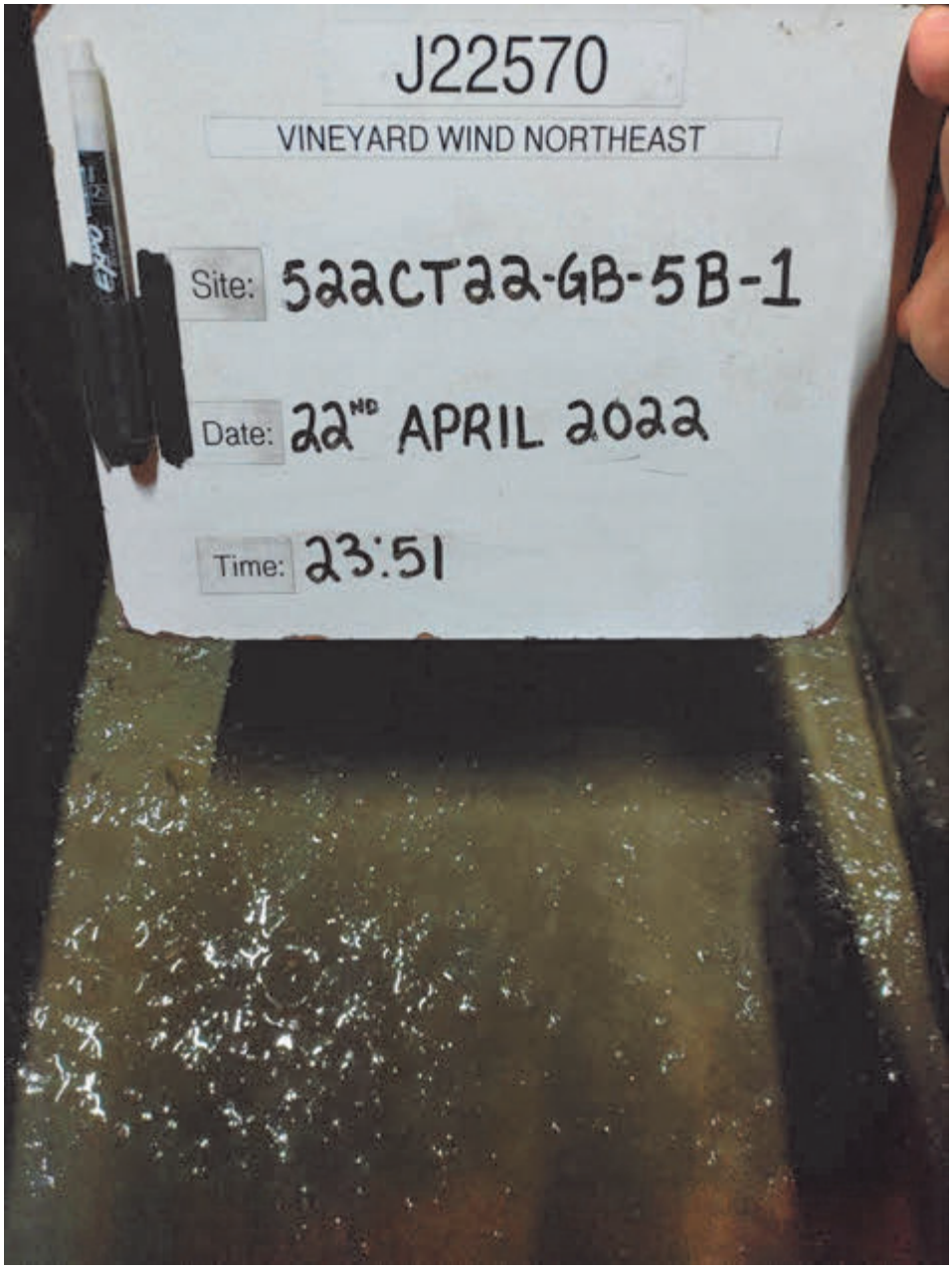
Sample ID 522CT22-GB005B-1



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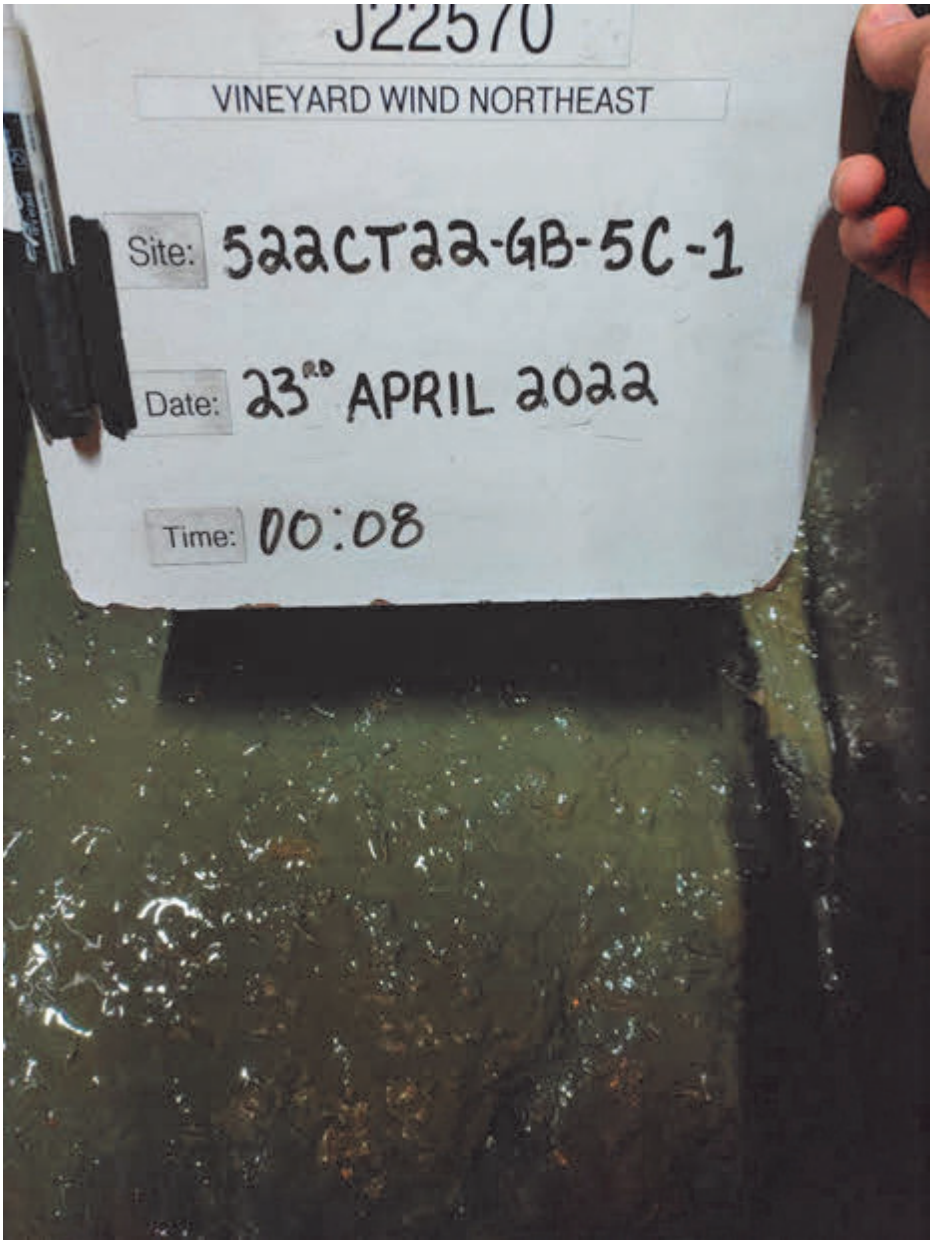

PHOTO INFORMATION

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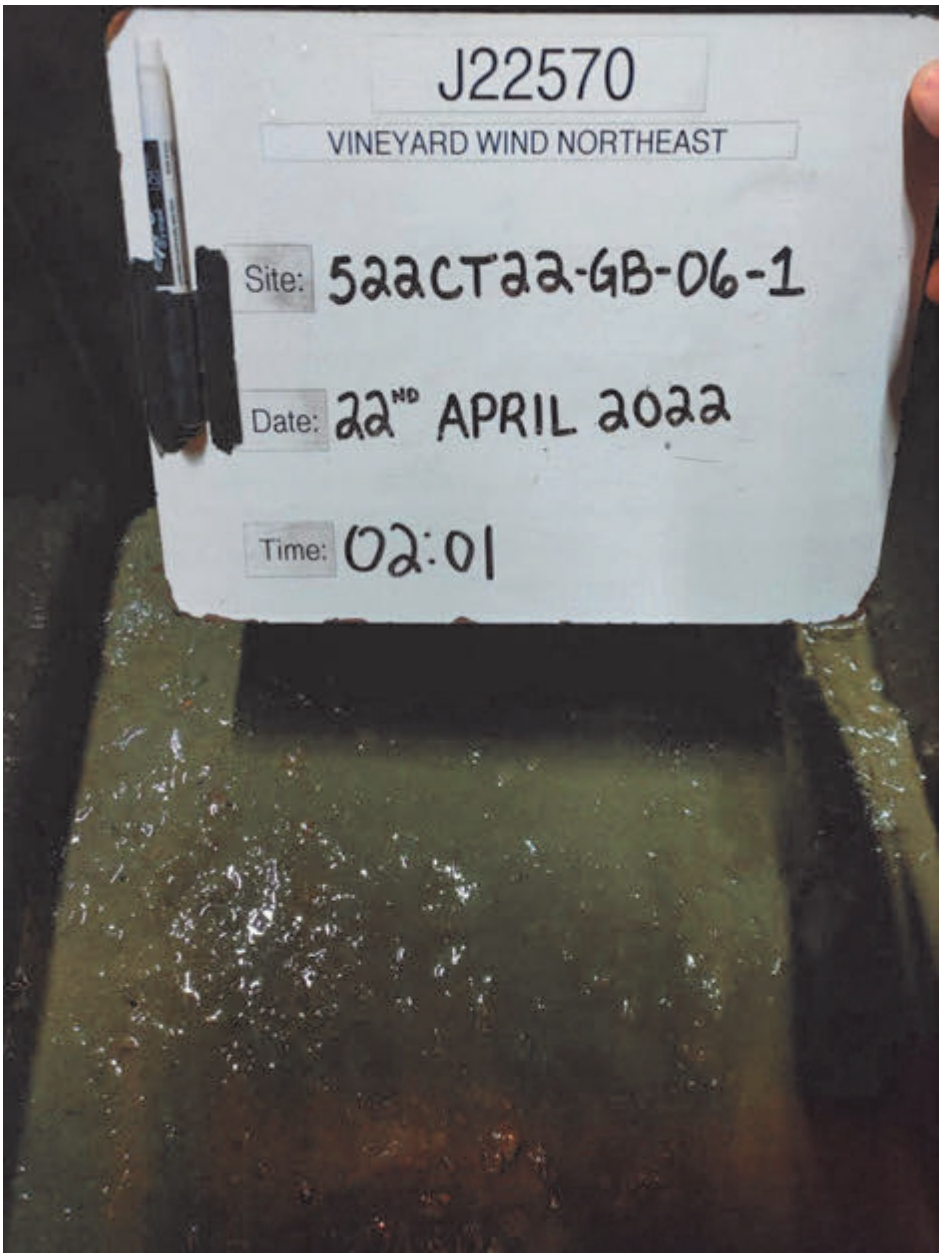

PHOTO INFORMATION

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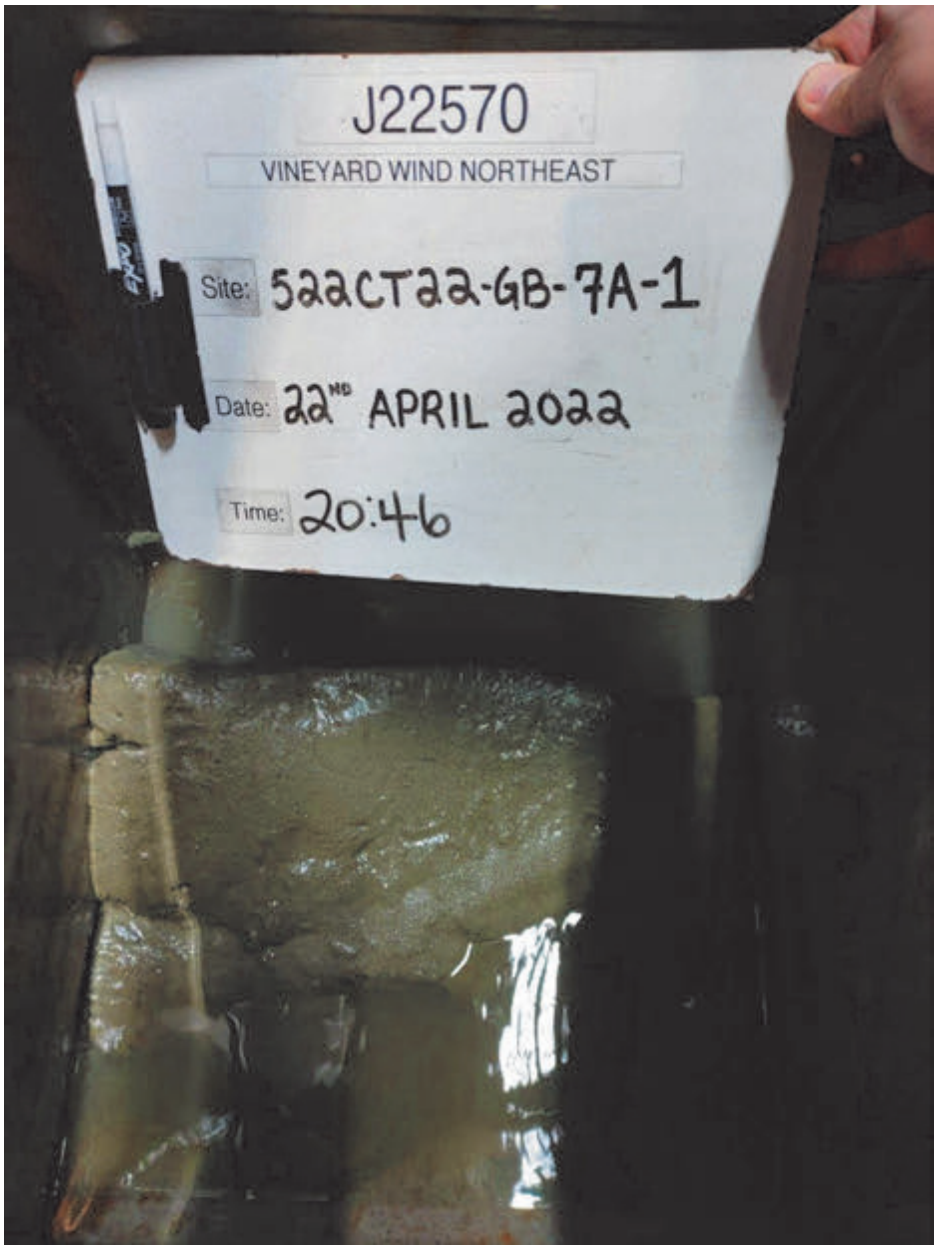

PHOTO INFORMATION

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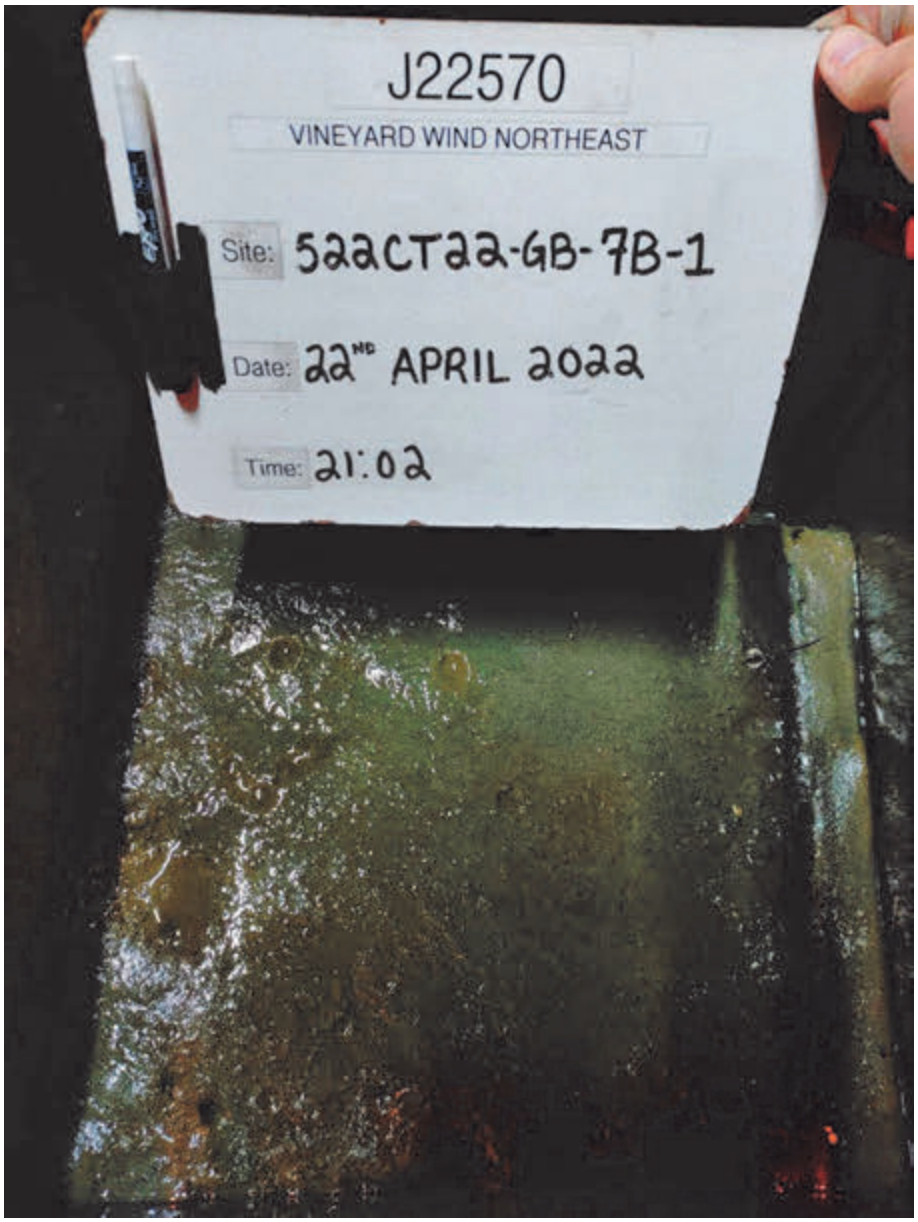

PHOTO INFORMATION

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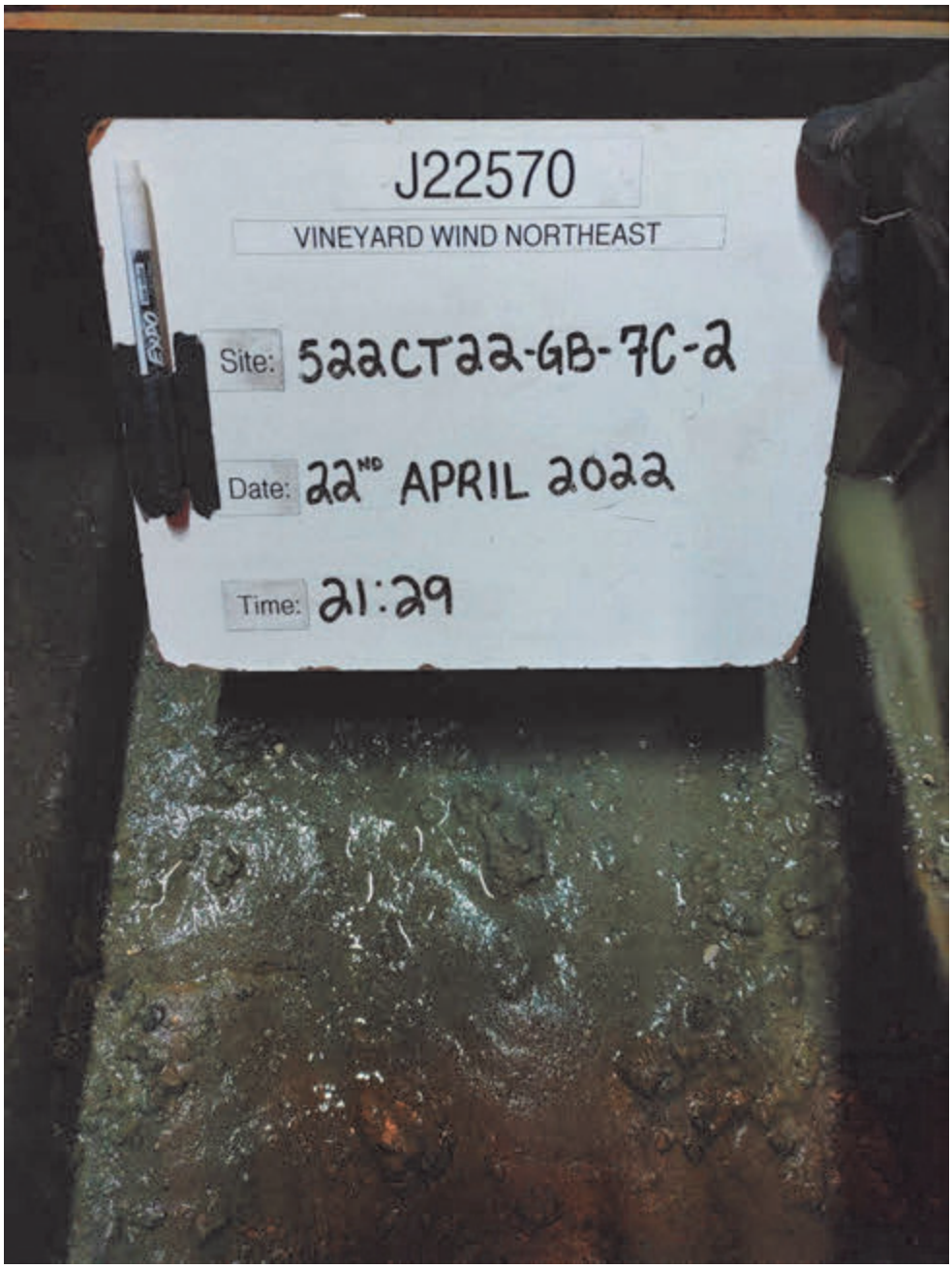

PHOTO INFORMATION

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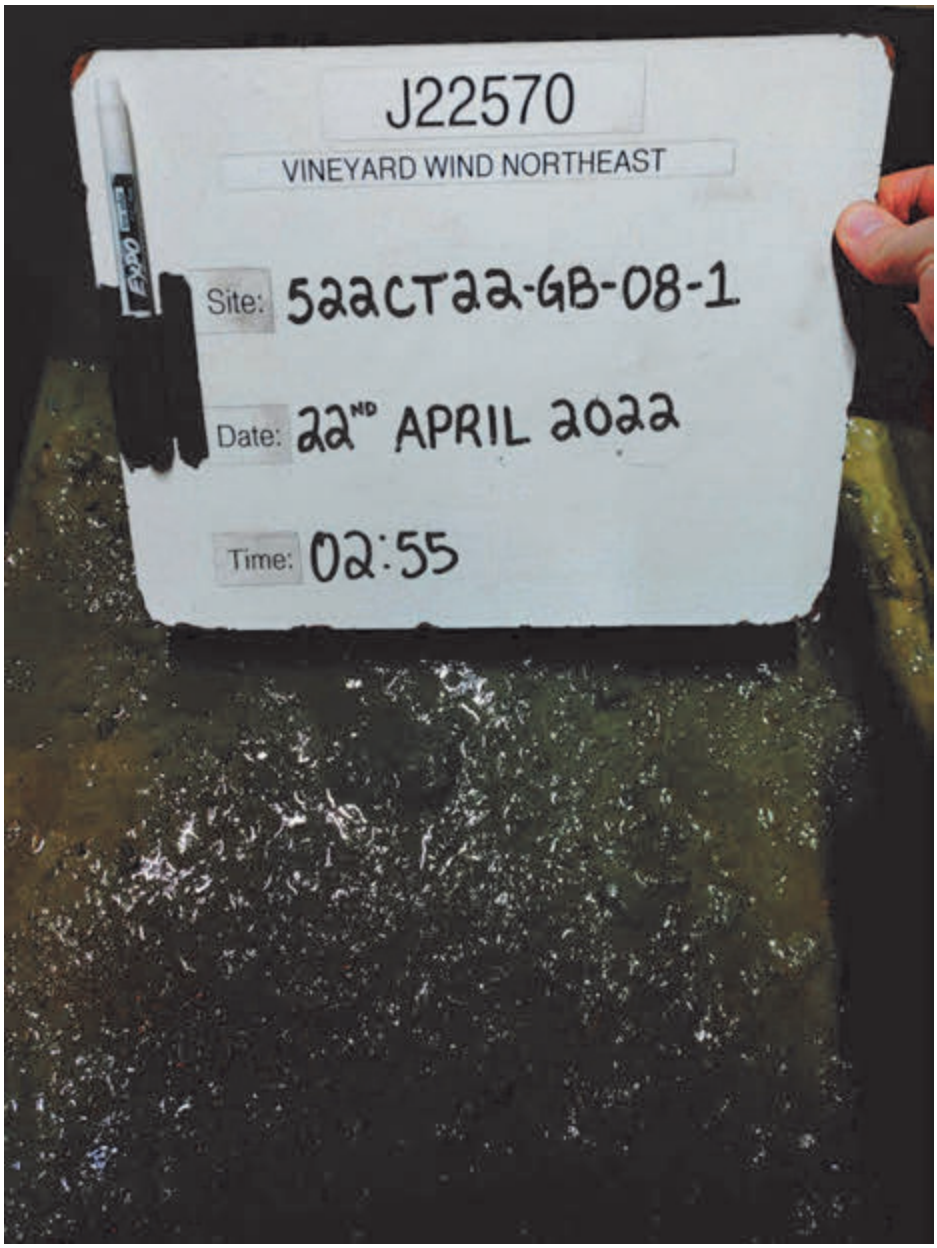

PHOTO INFORMATION

Sample ID 522CT22-GB009A-1

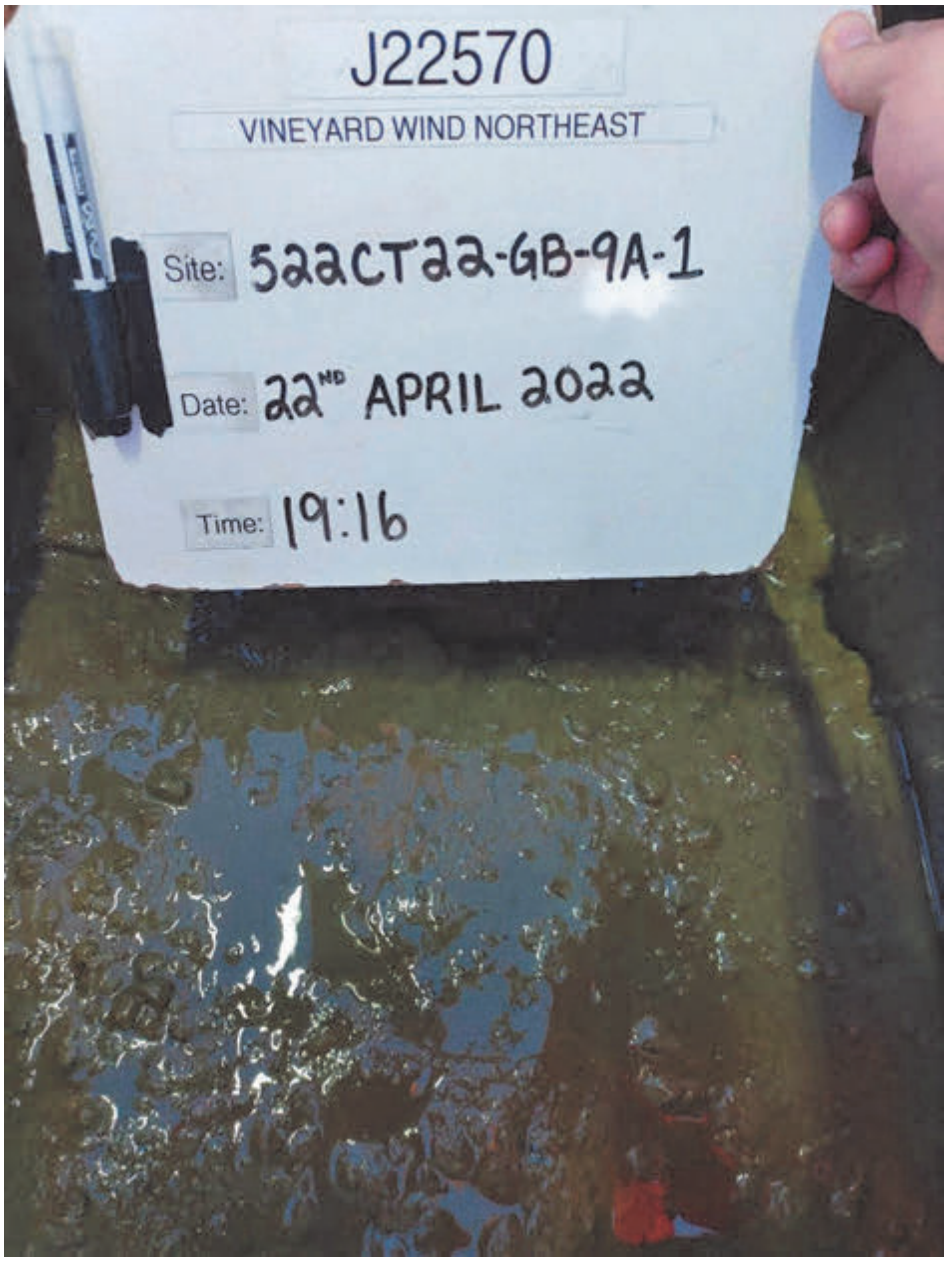

PHOTO INFORMATION

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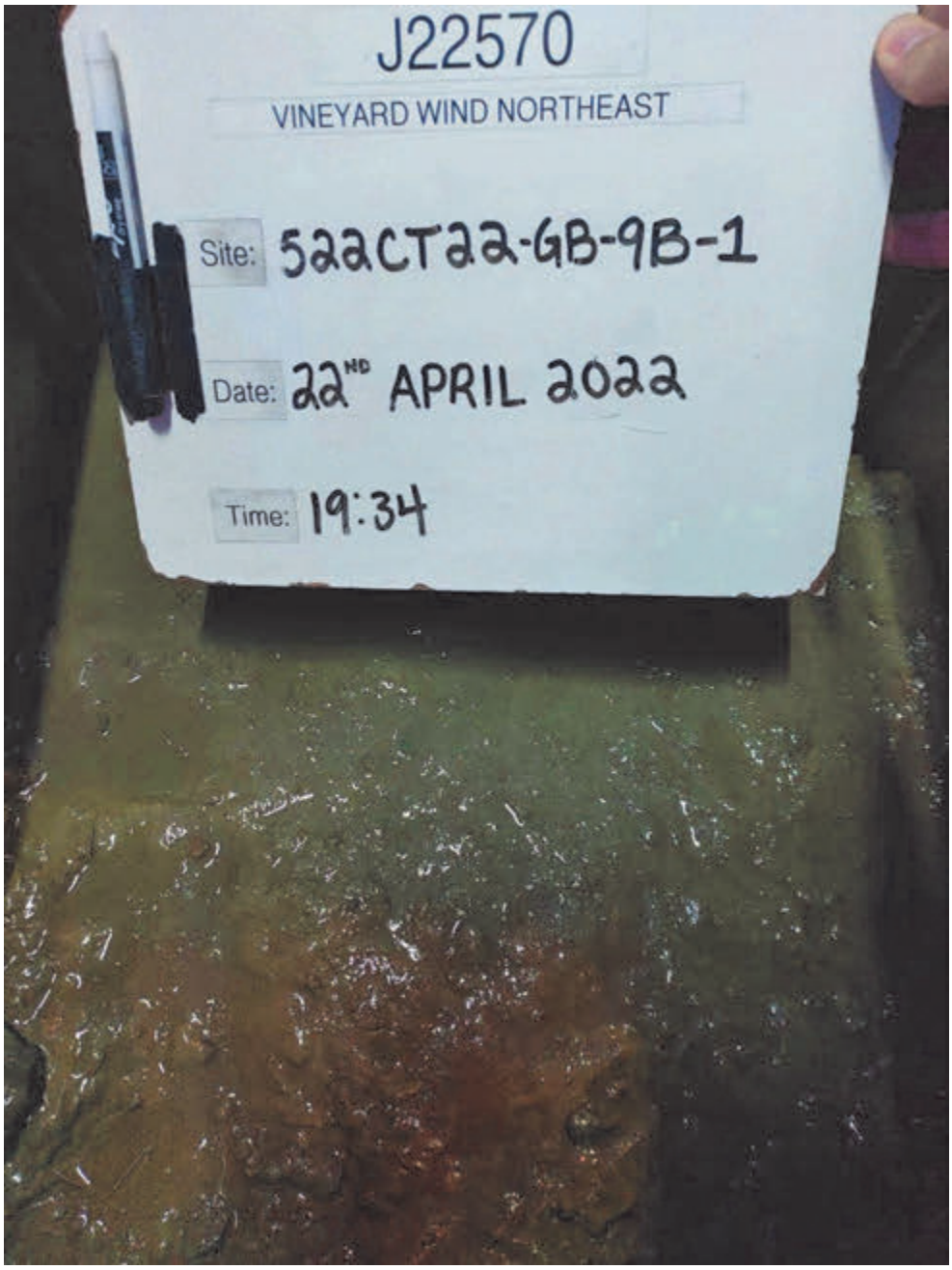

Appendix H-3: Benthic Grab Sample Deck Images
Connecticut OECC

PHOTO INFORMATION

Sample ID 522CT22-GB009C-1

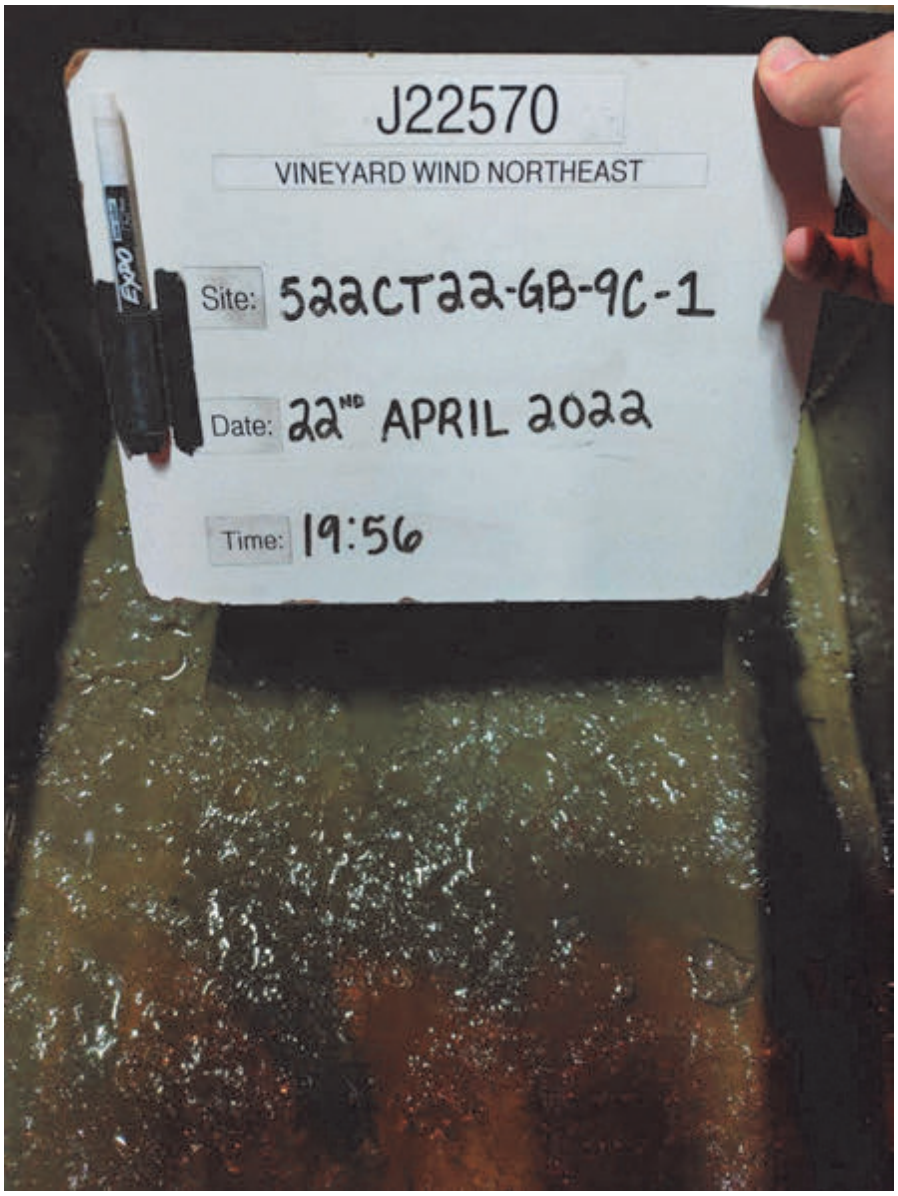

PHOTO INFORMATION

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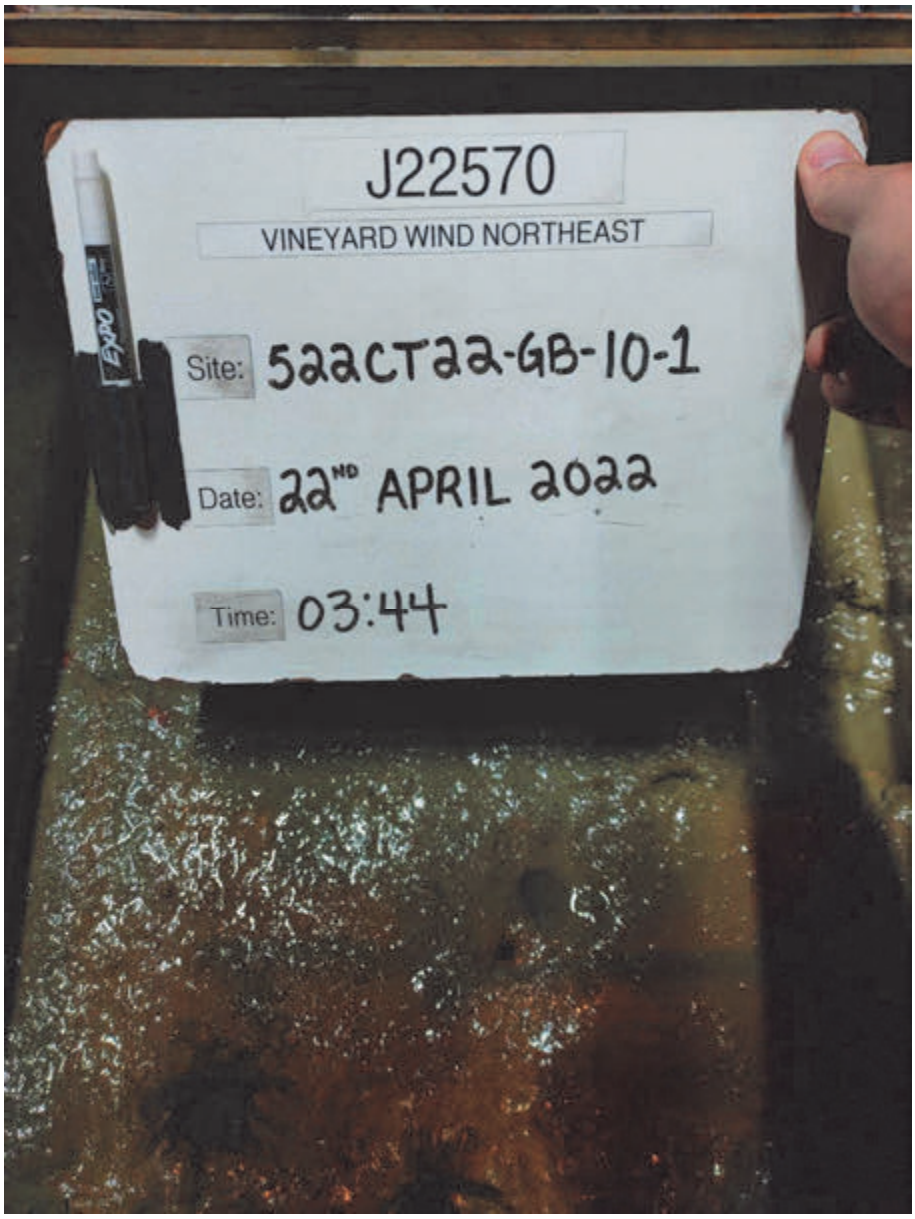

PHOTO INFORMATION

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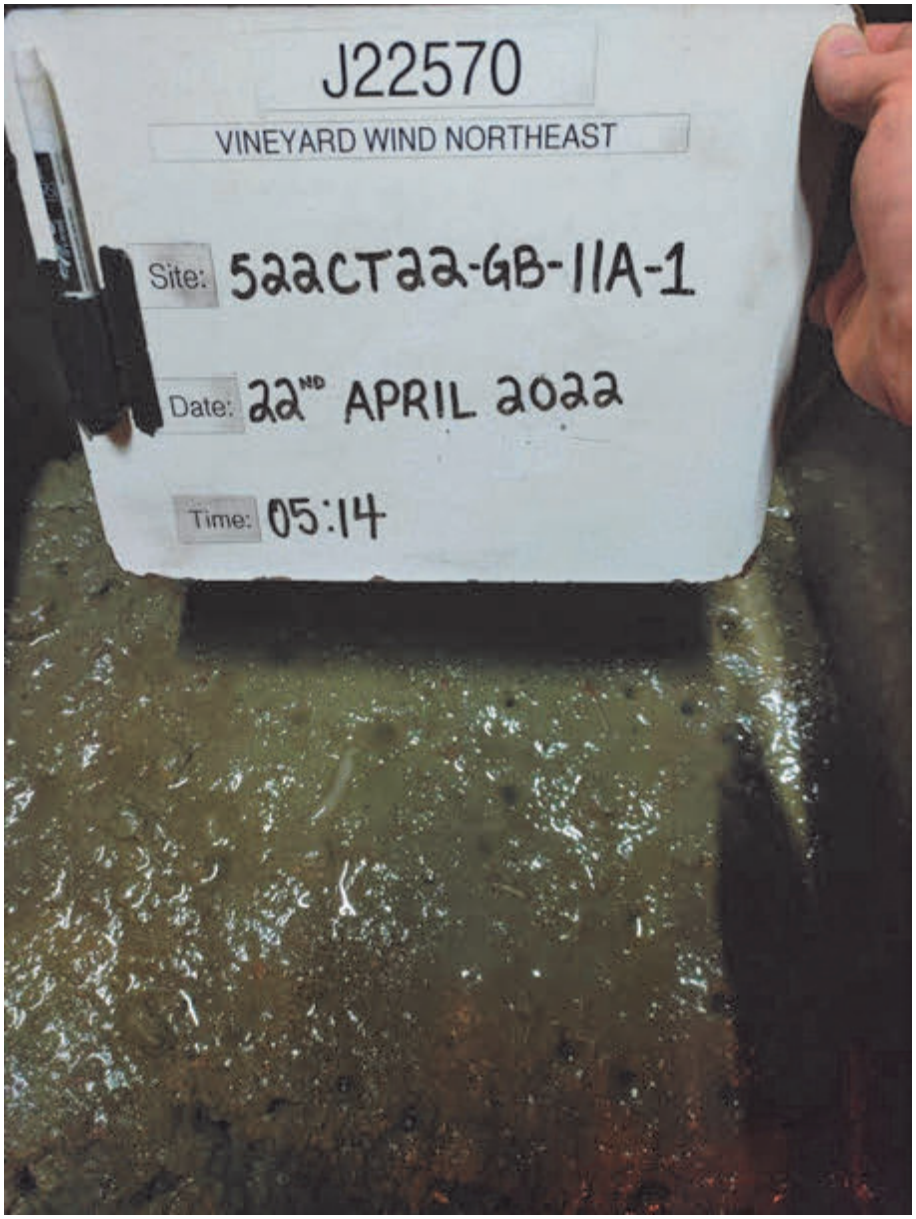

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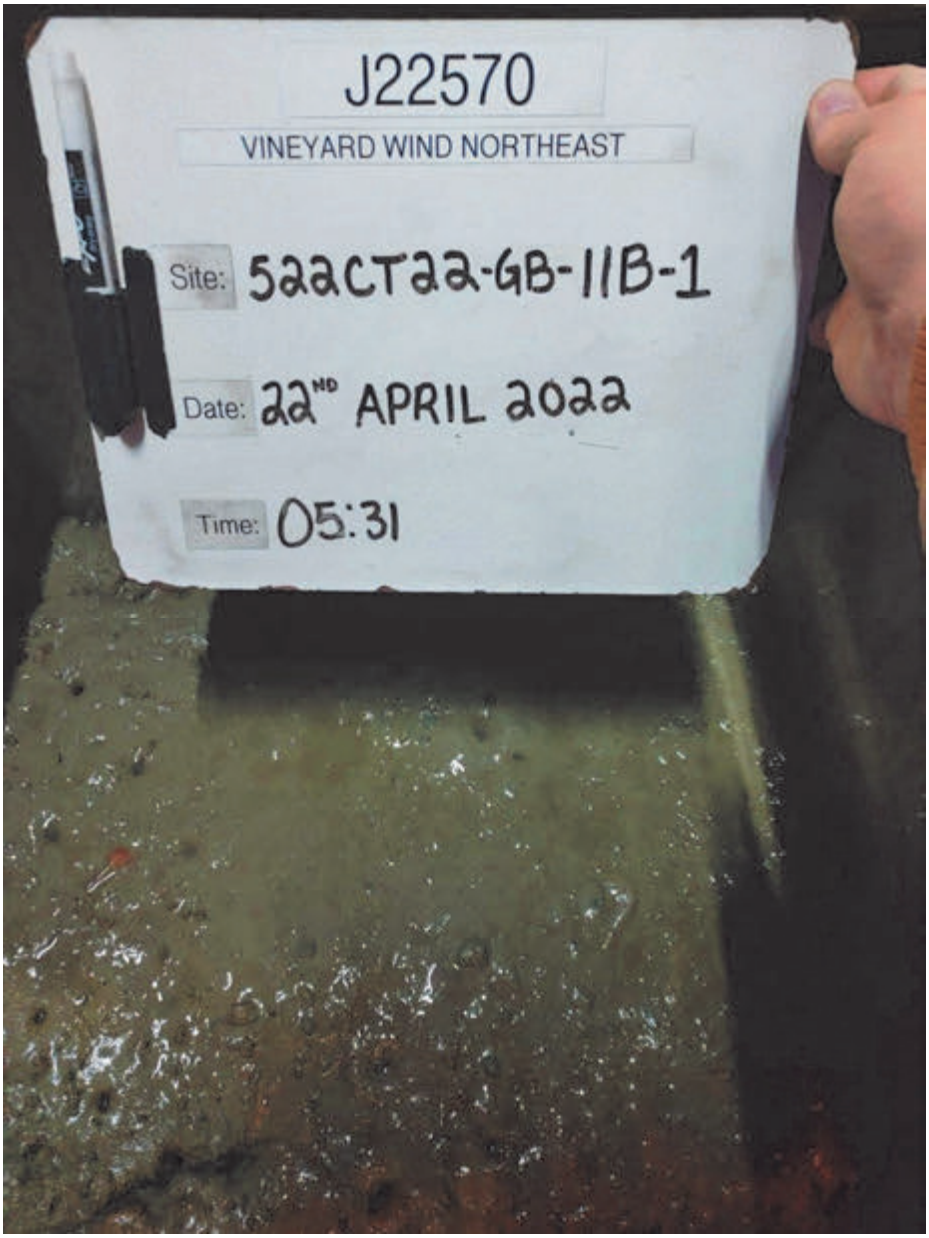

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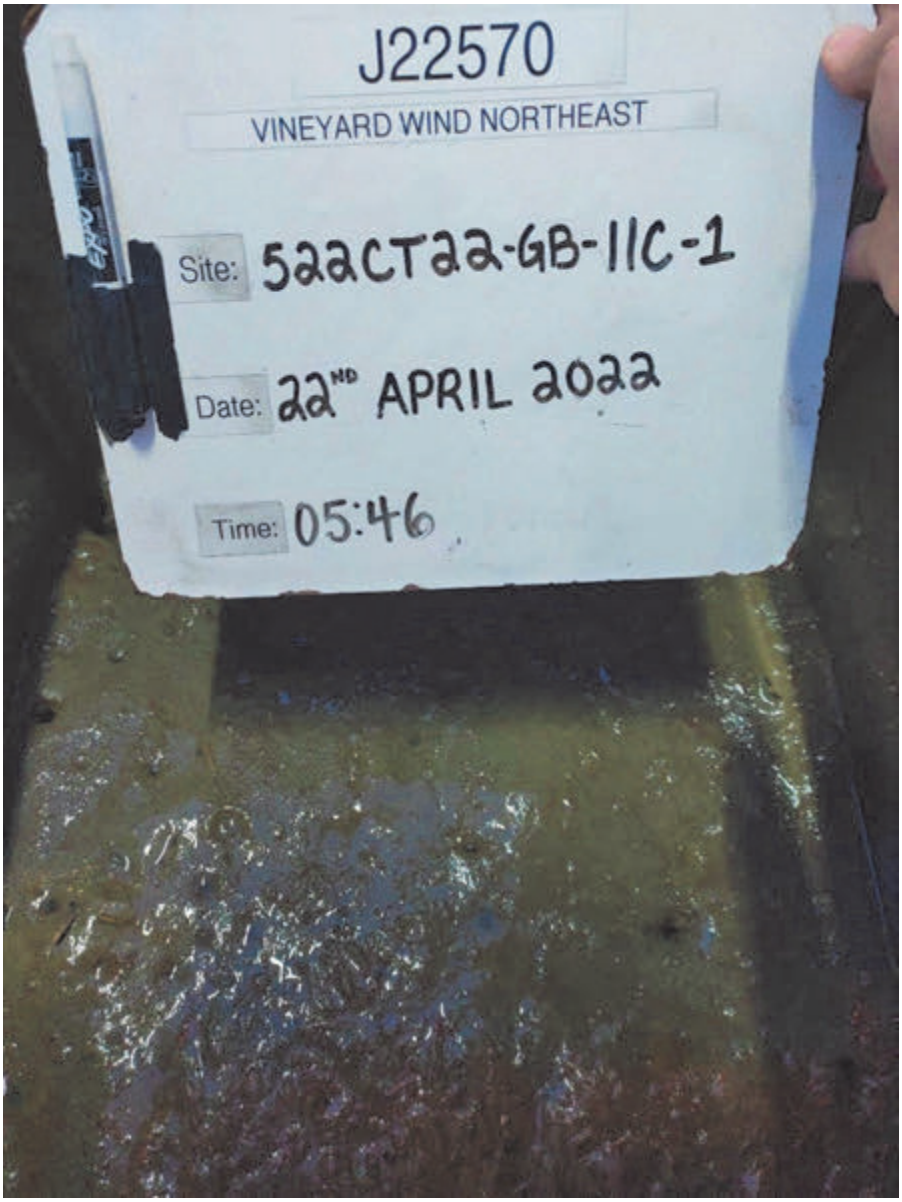

PHOTO INFORMATION

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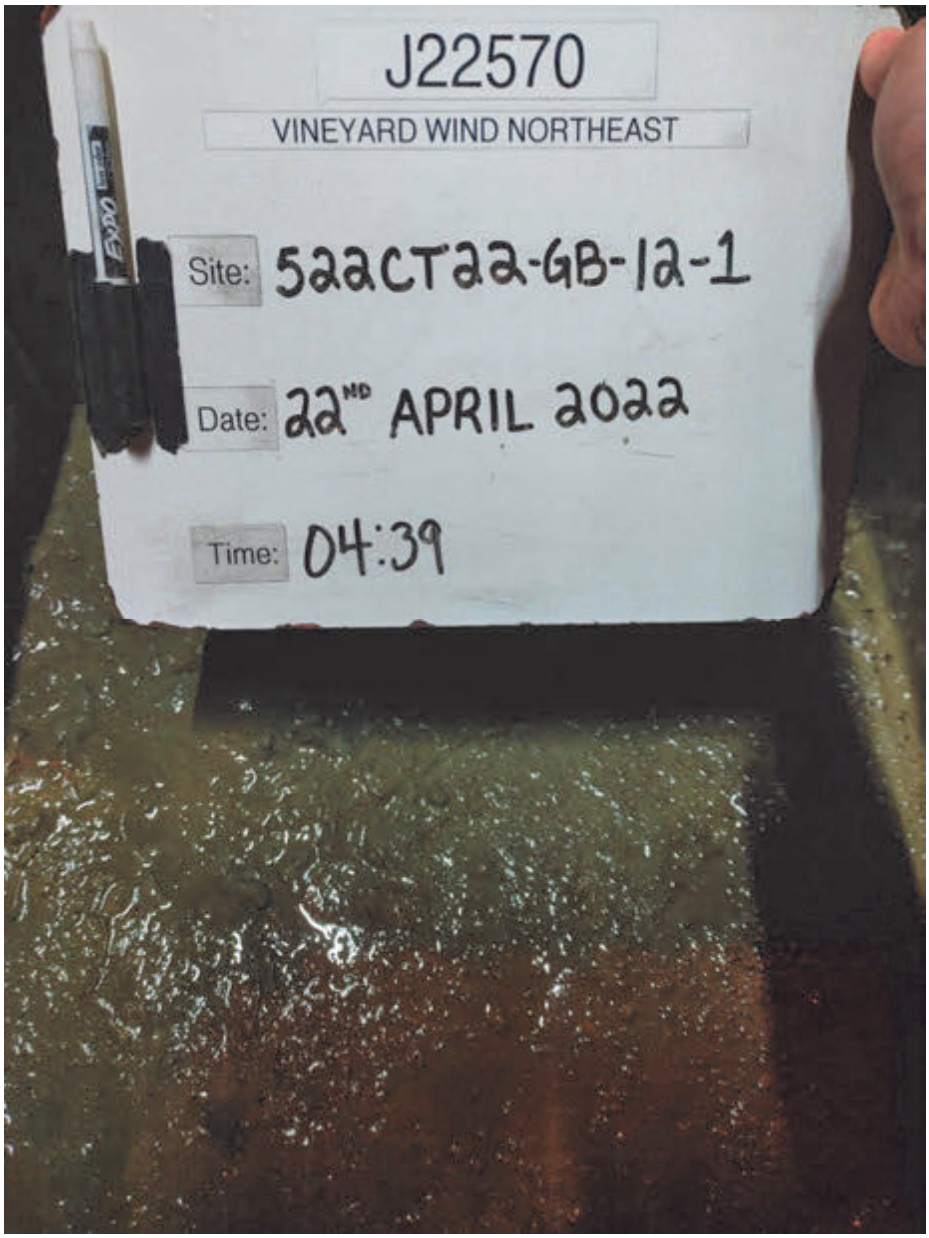

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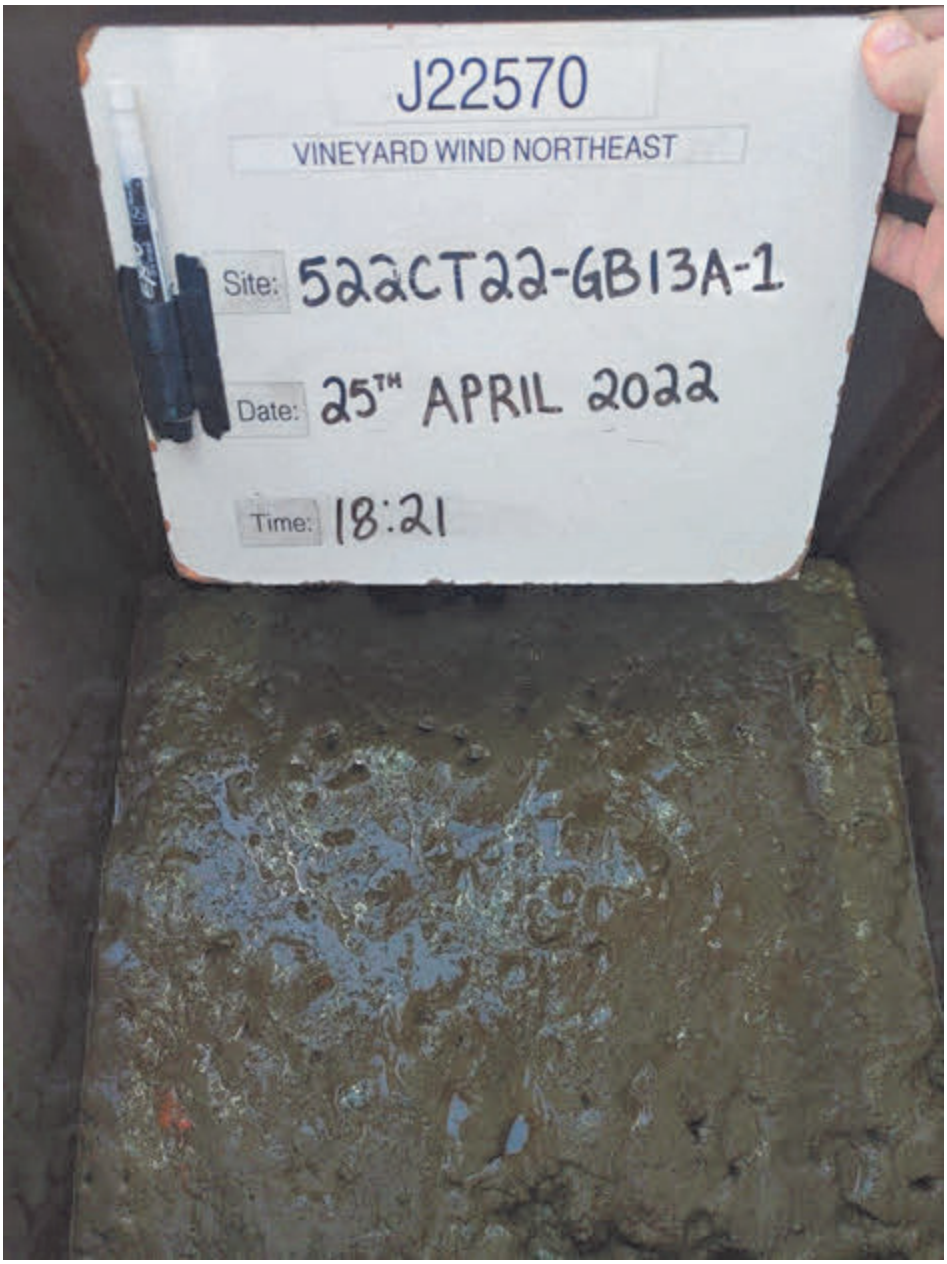

PHOTO INFORMATION

Sample ID 522CT22-GB013B-1

PHOTO INFORMATION

Sample ID 522CT22-GB013C-1

PHOTO INFORMATION

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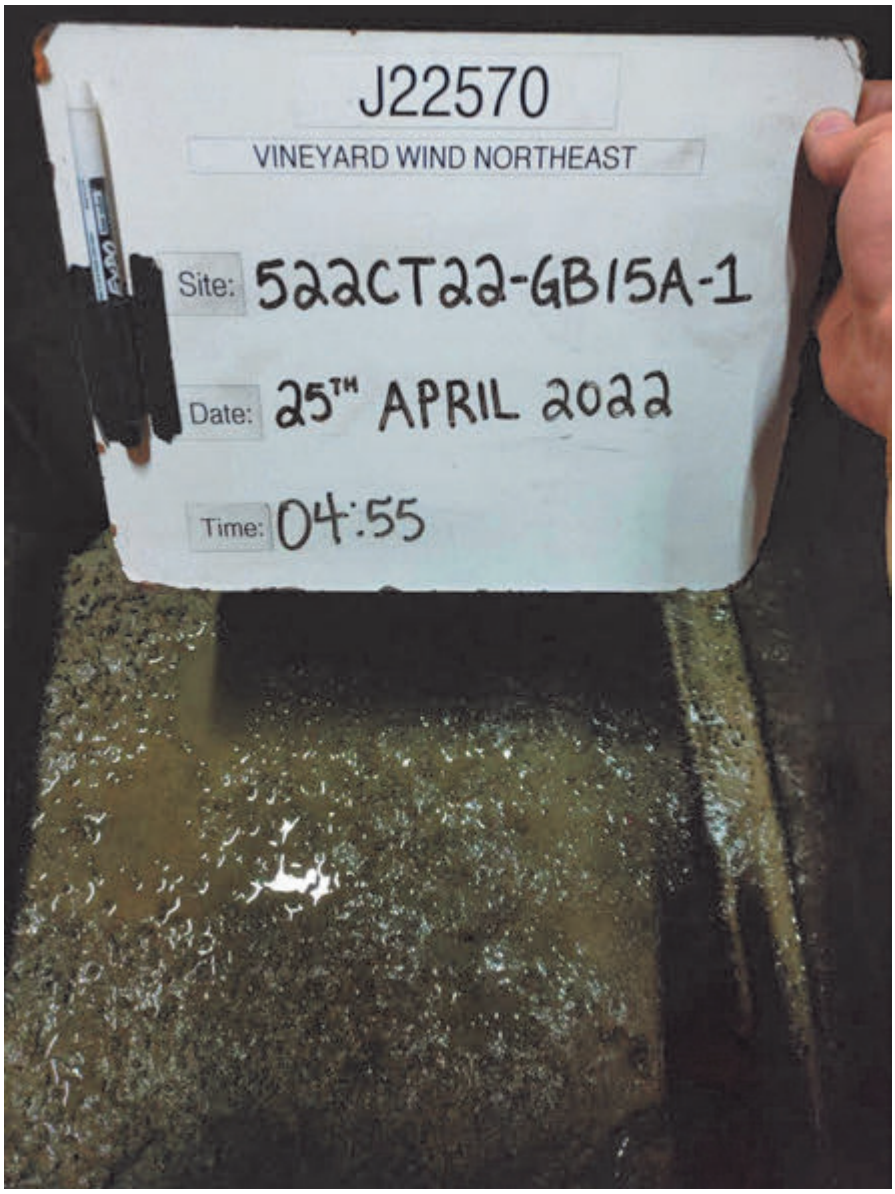

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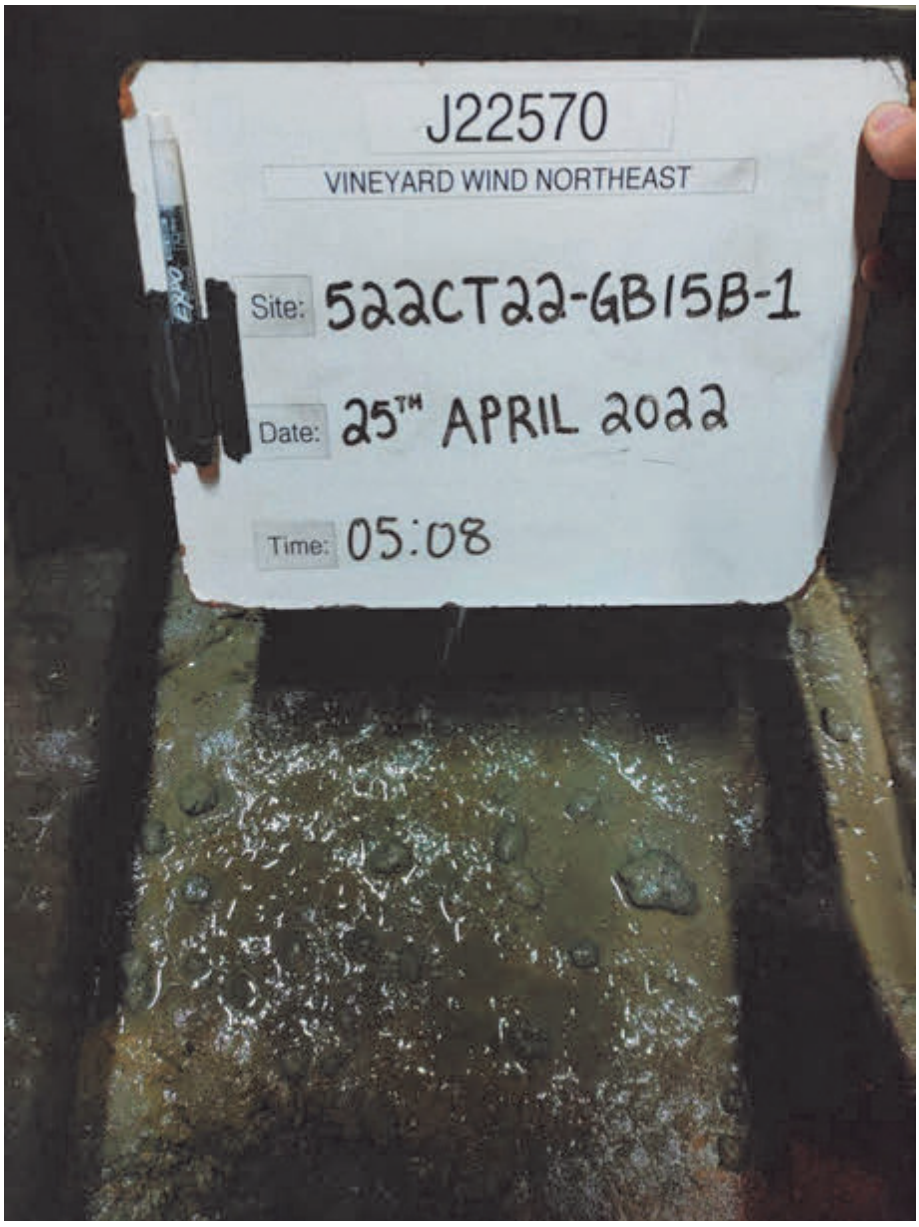

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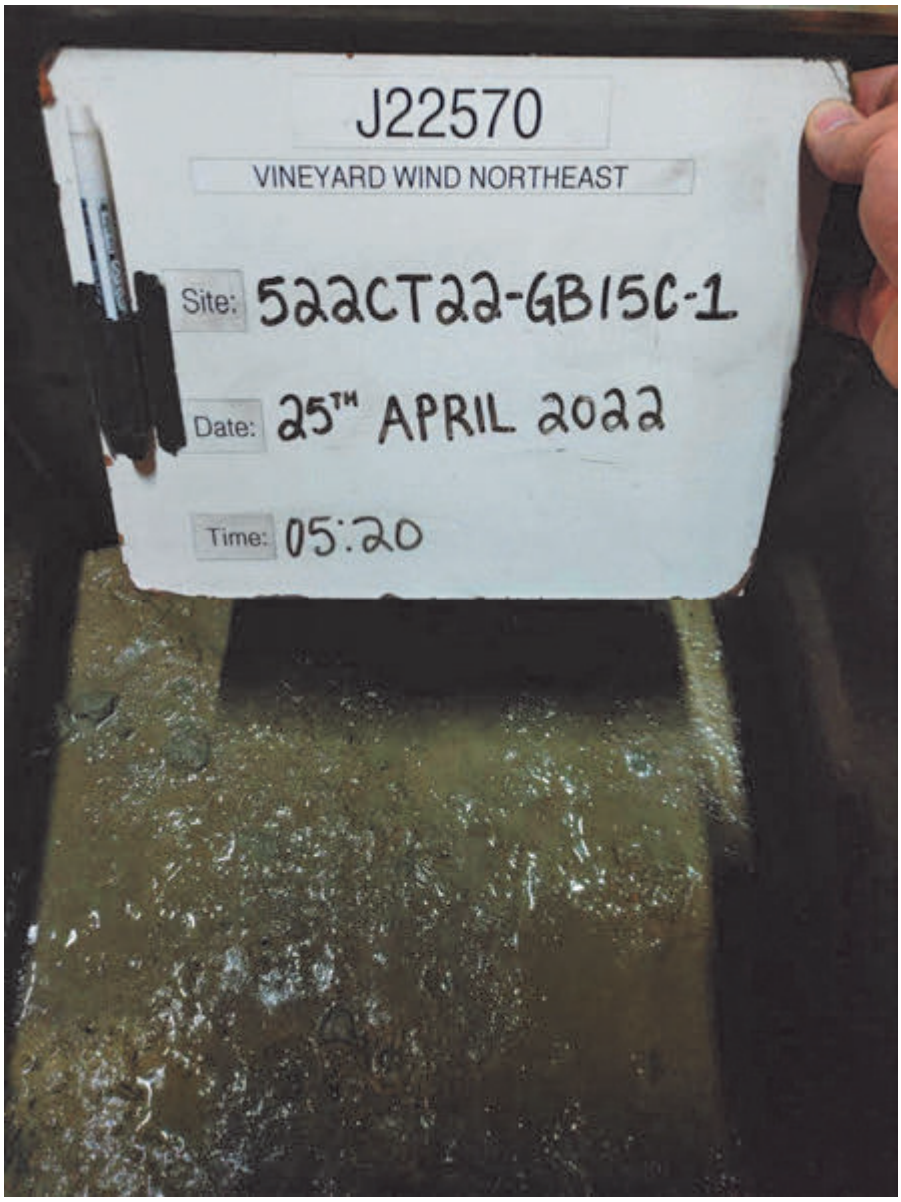

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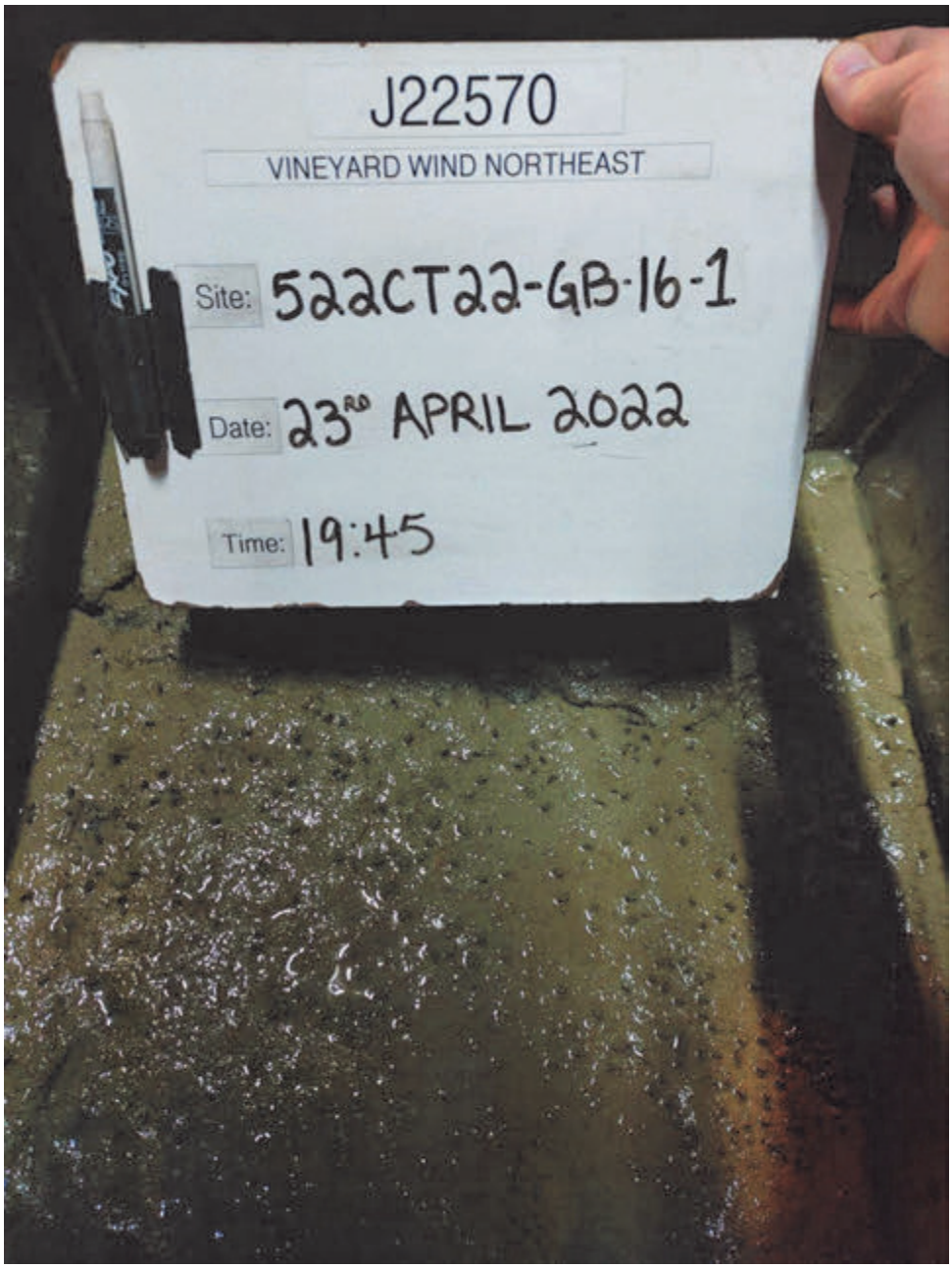

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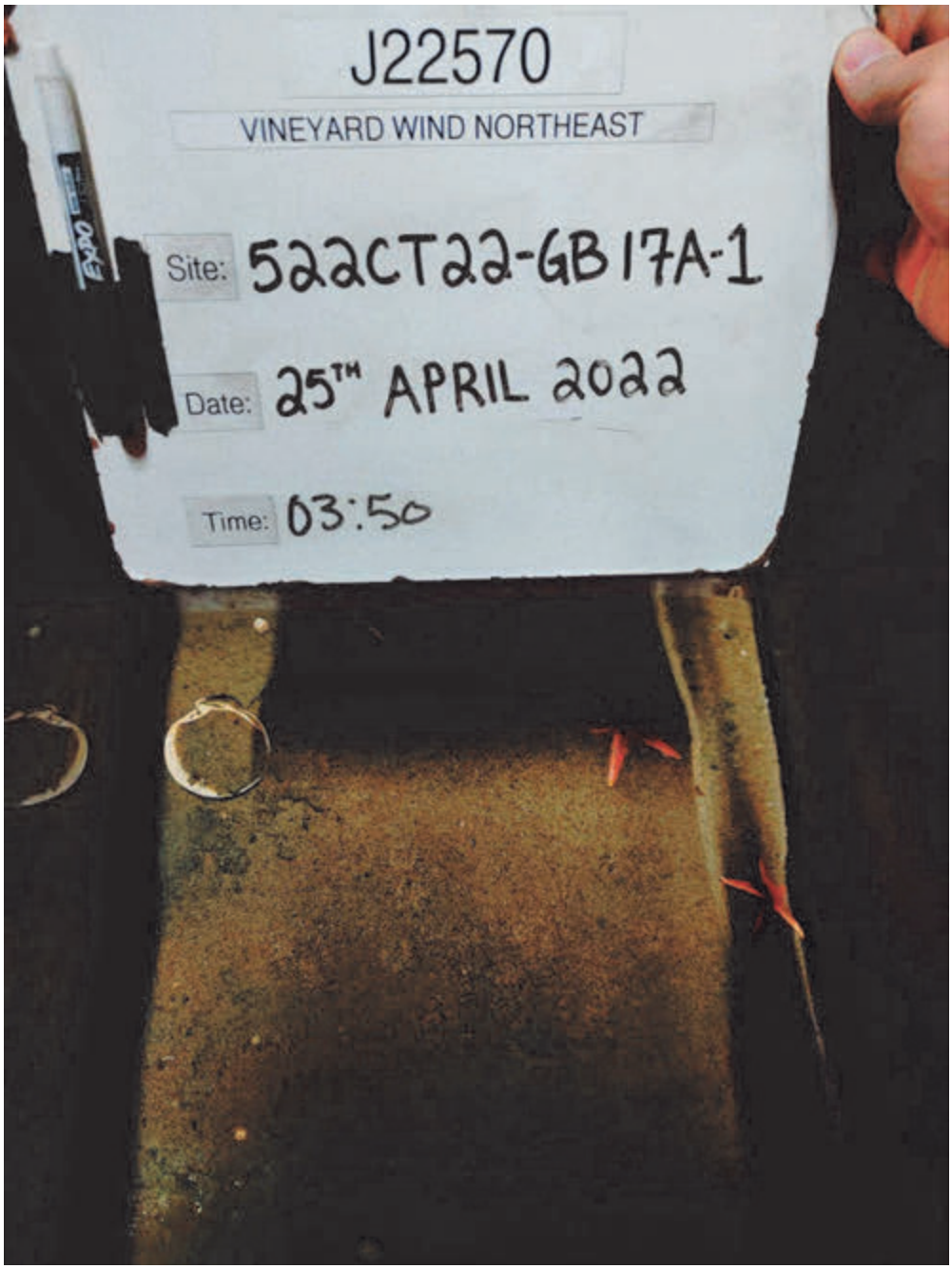

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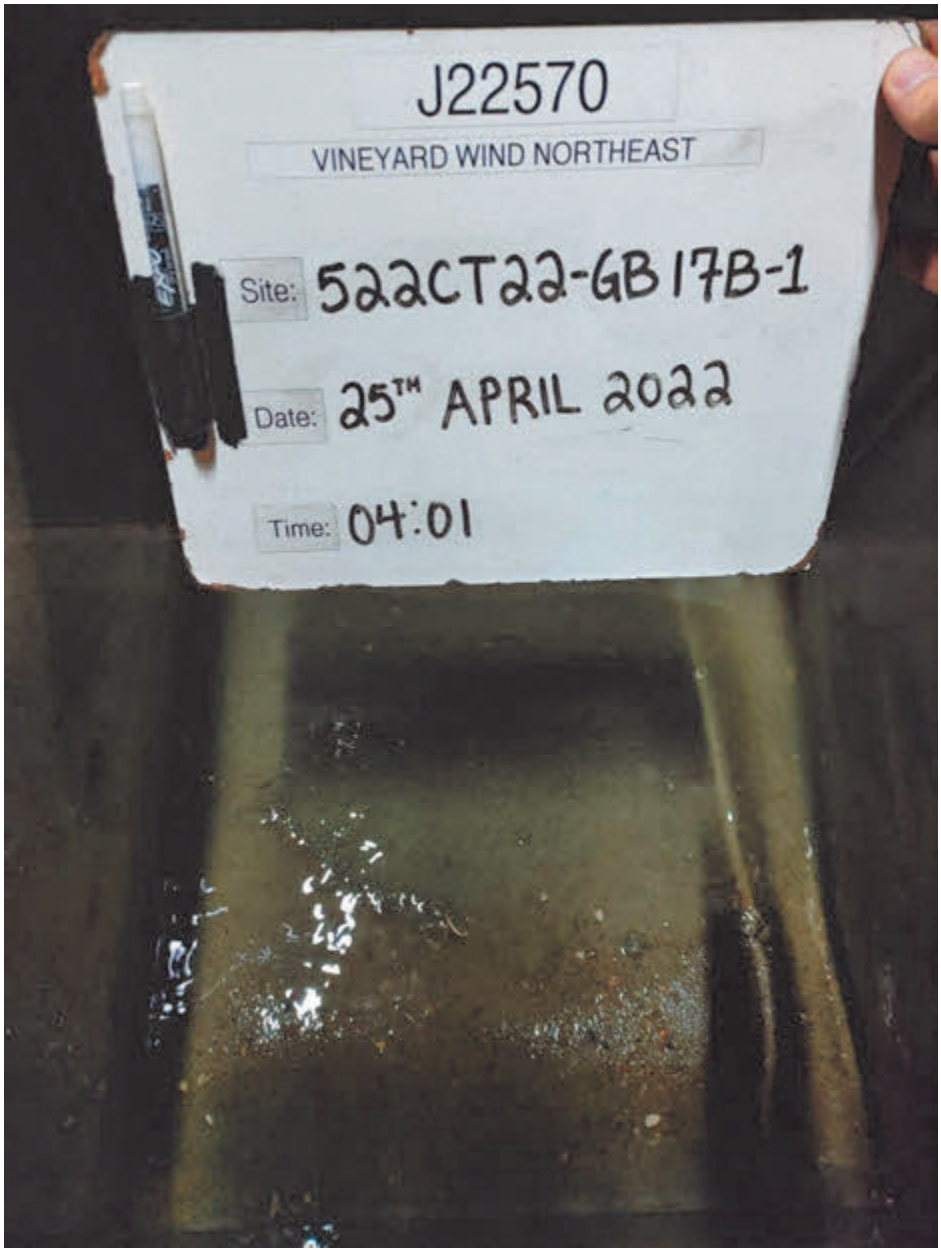
Sample ID 522CT22-GB017B-1



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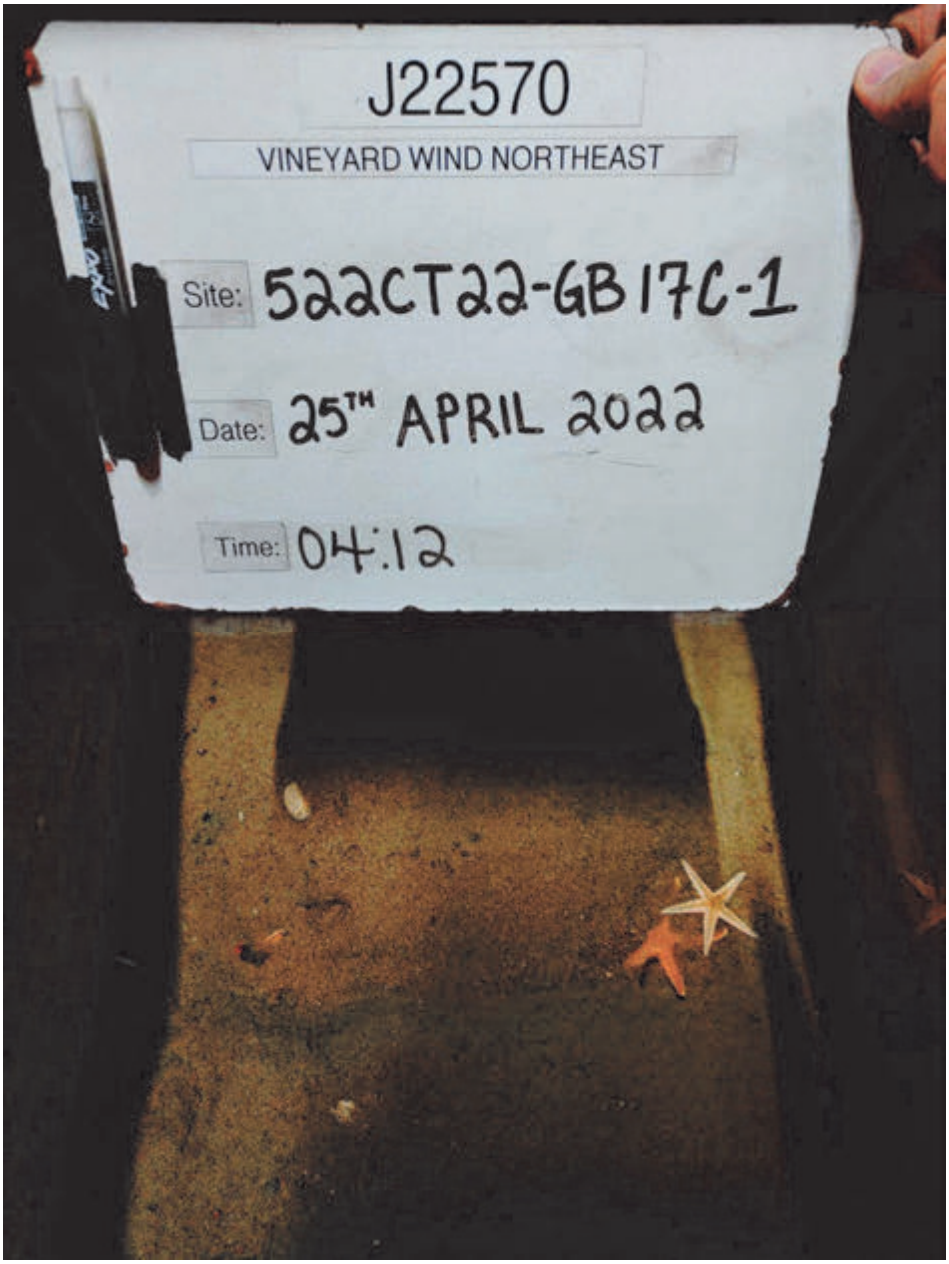

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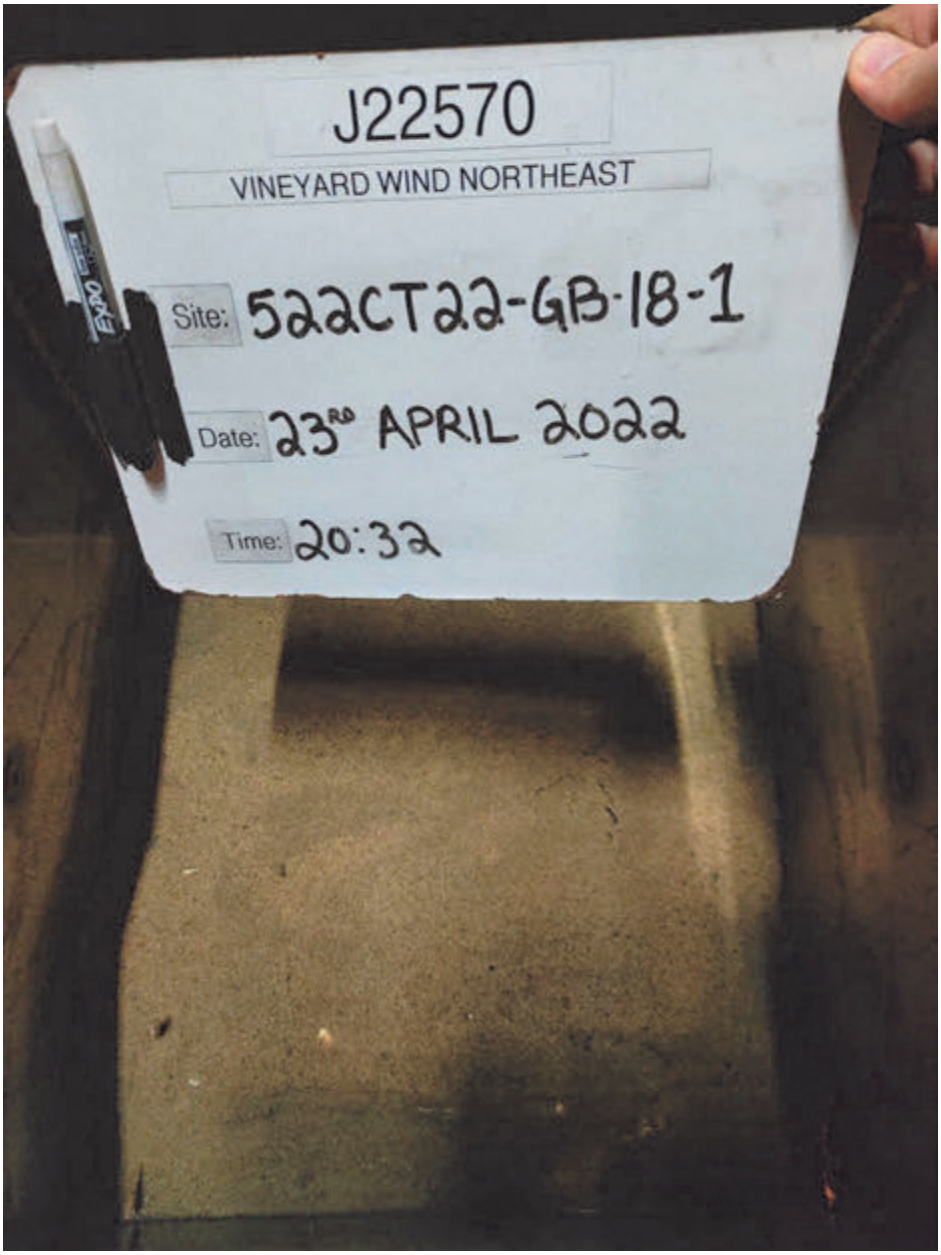

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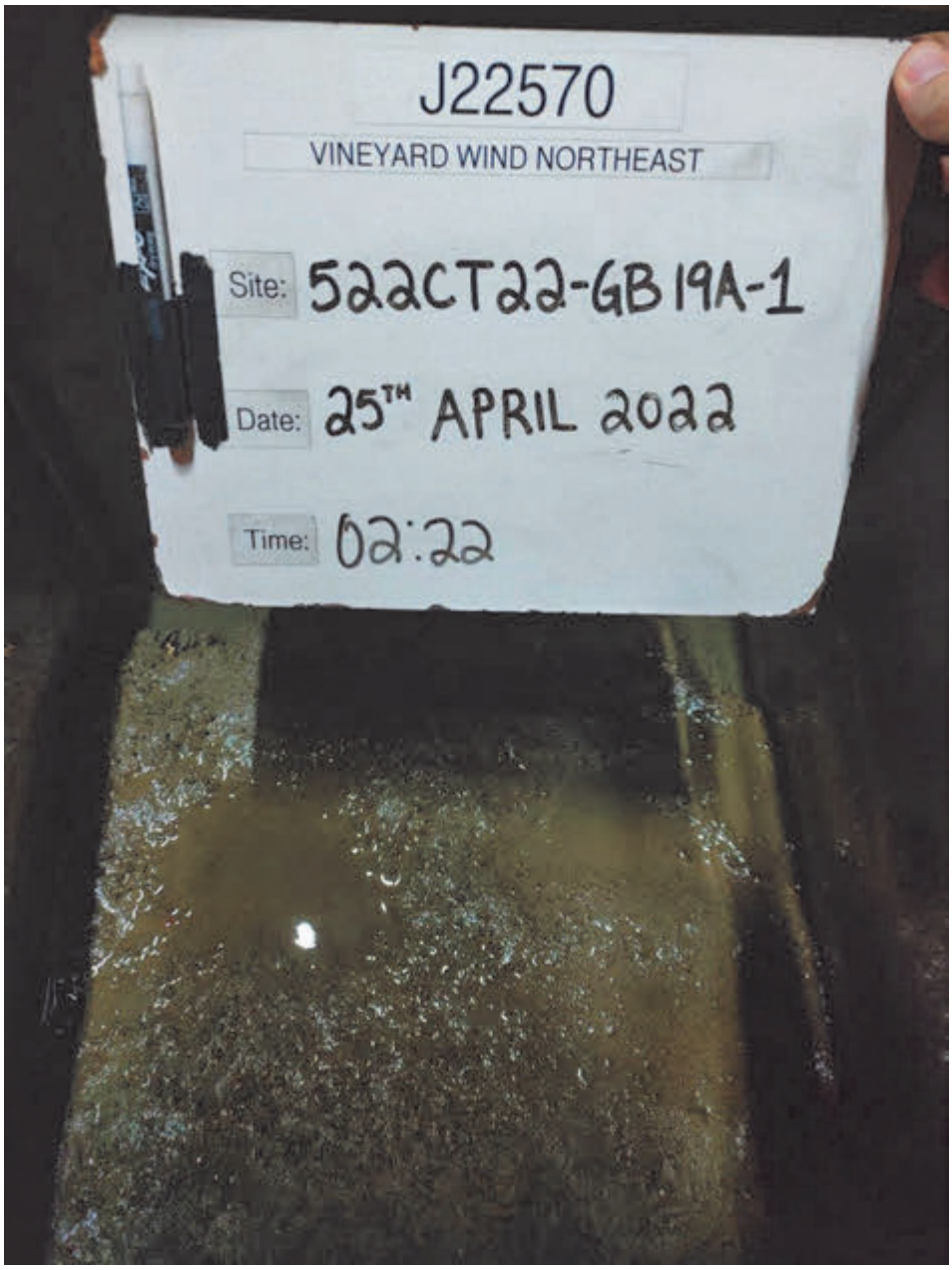

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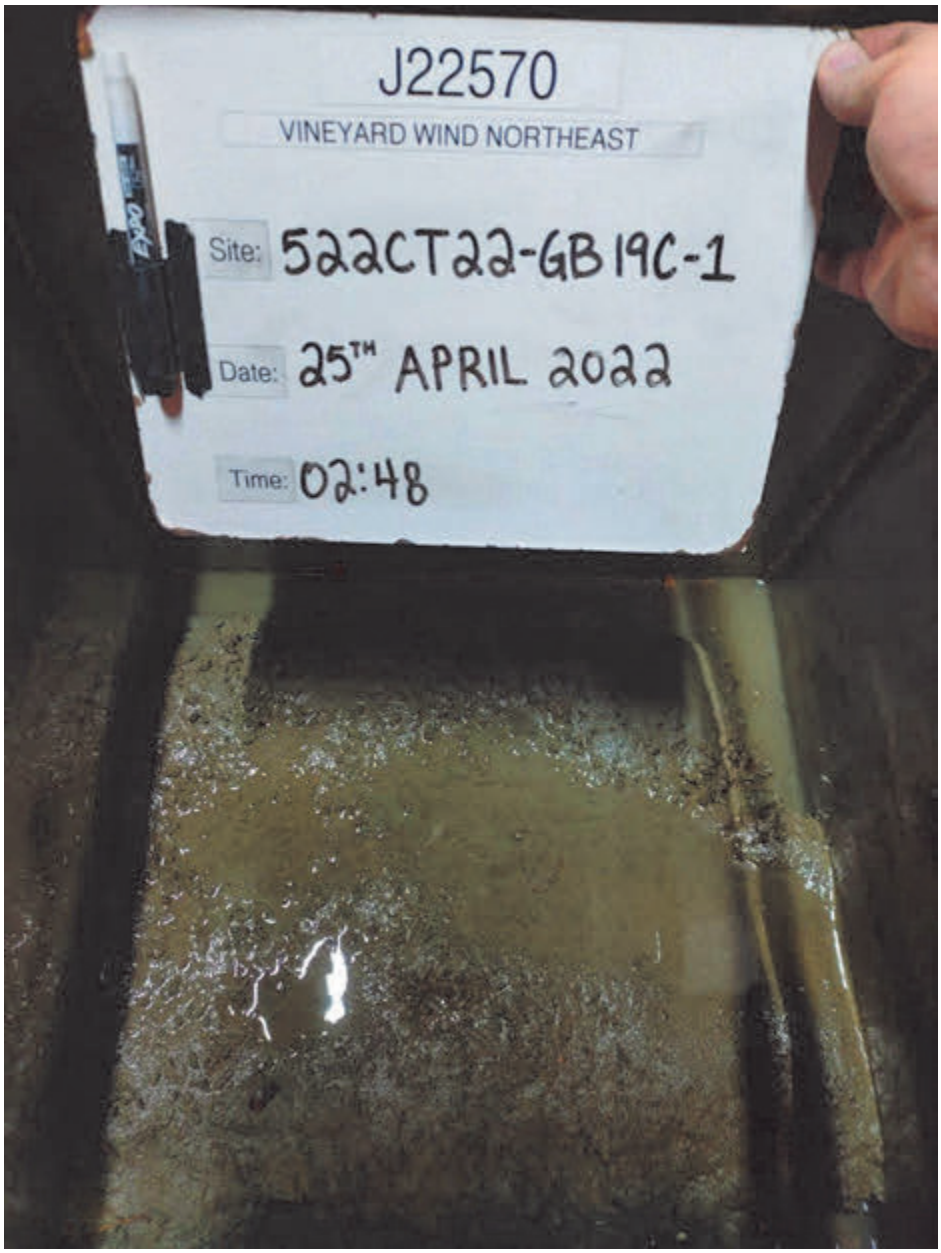

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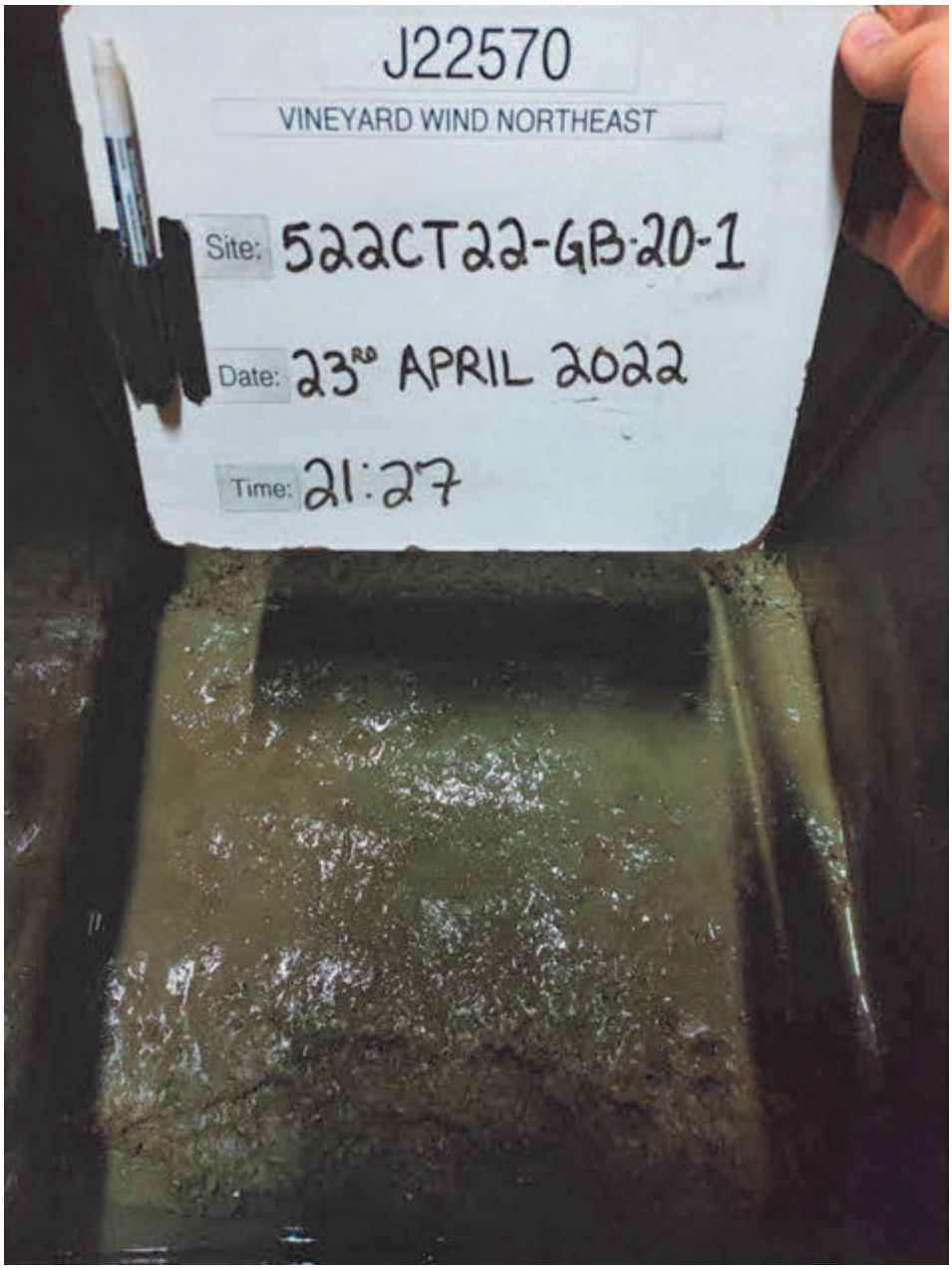

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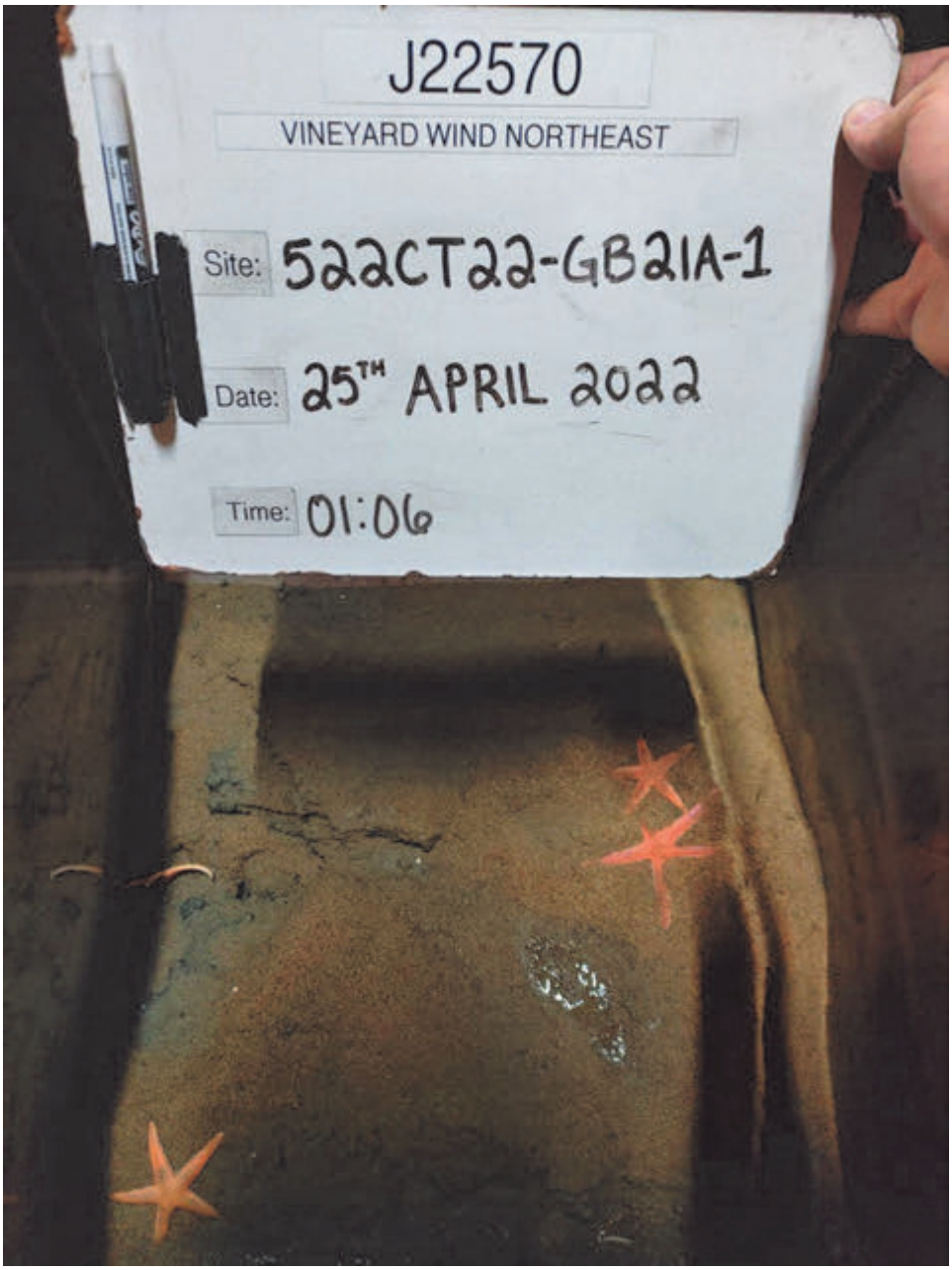

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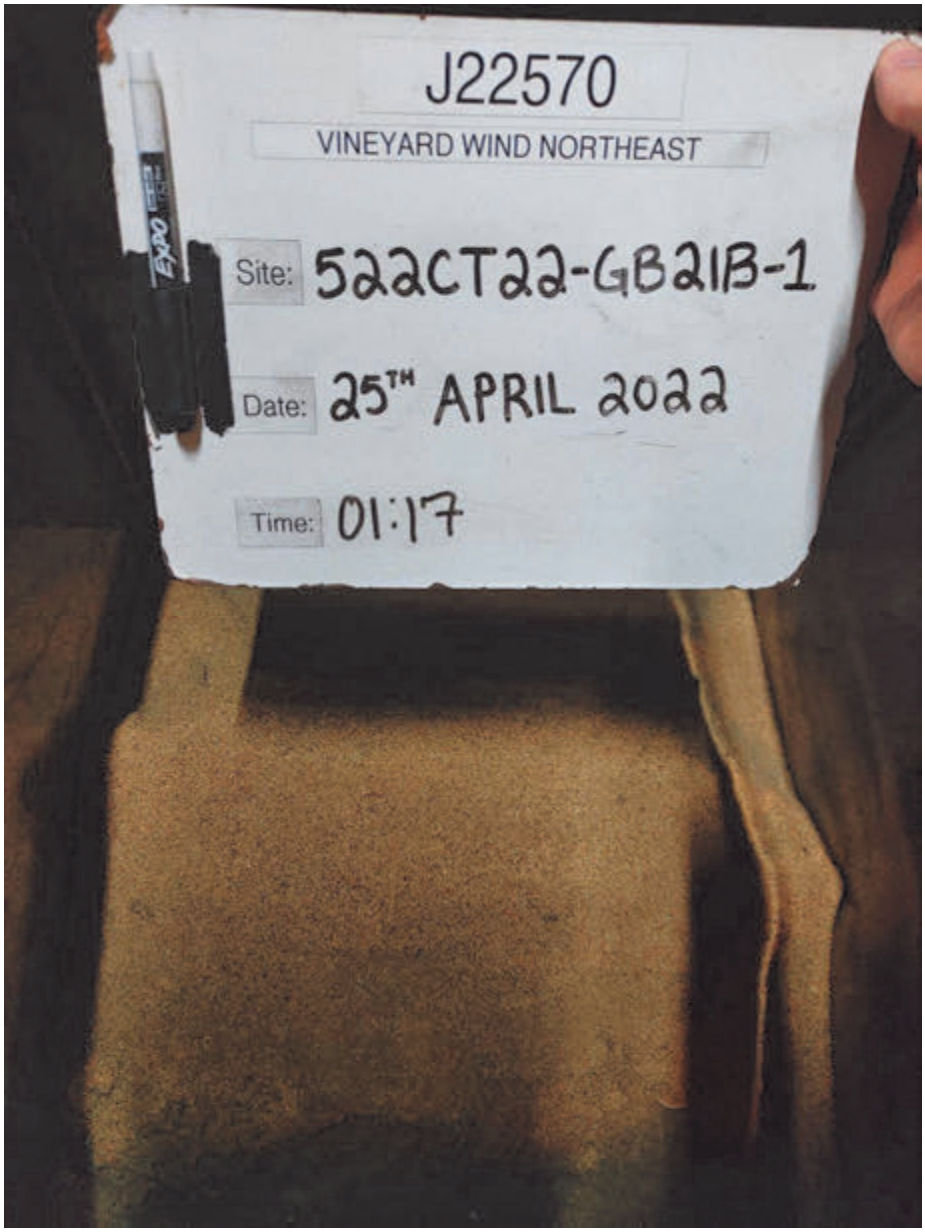

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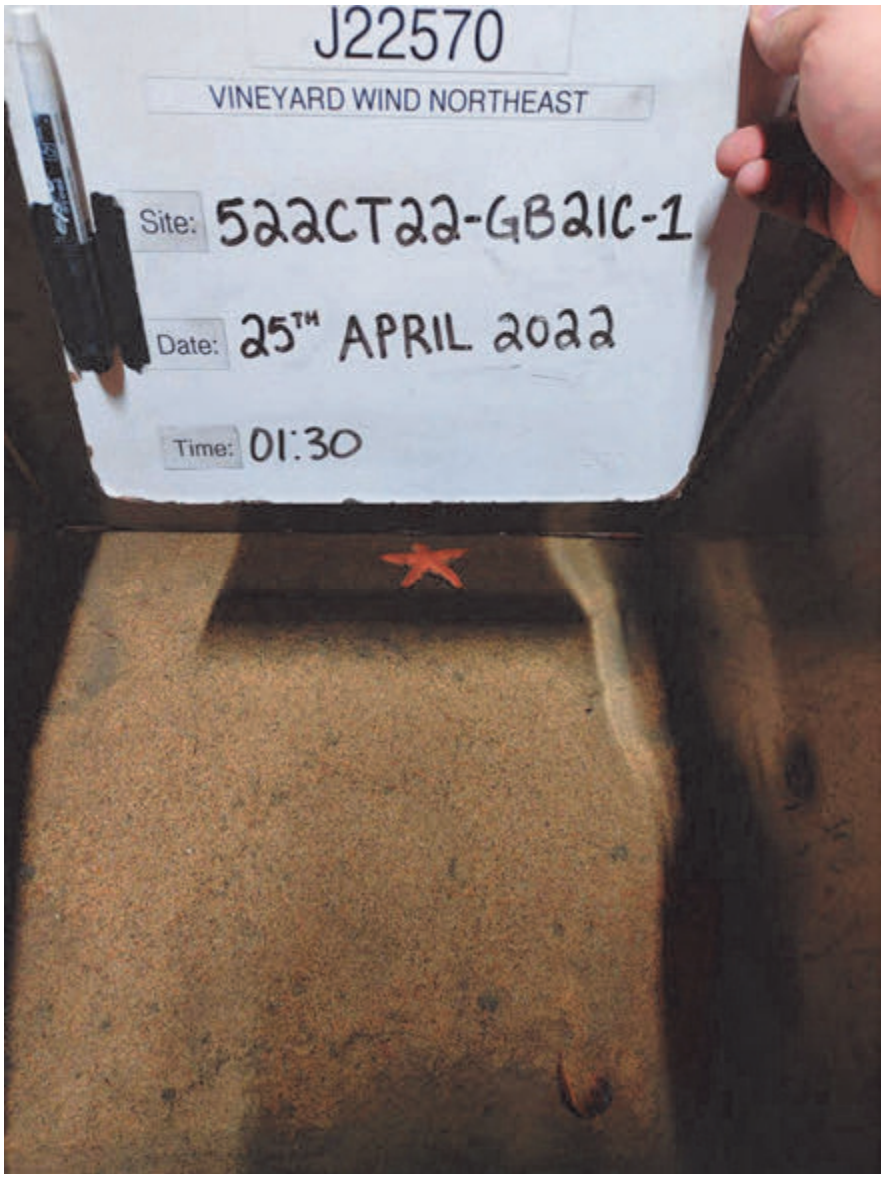

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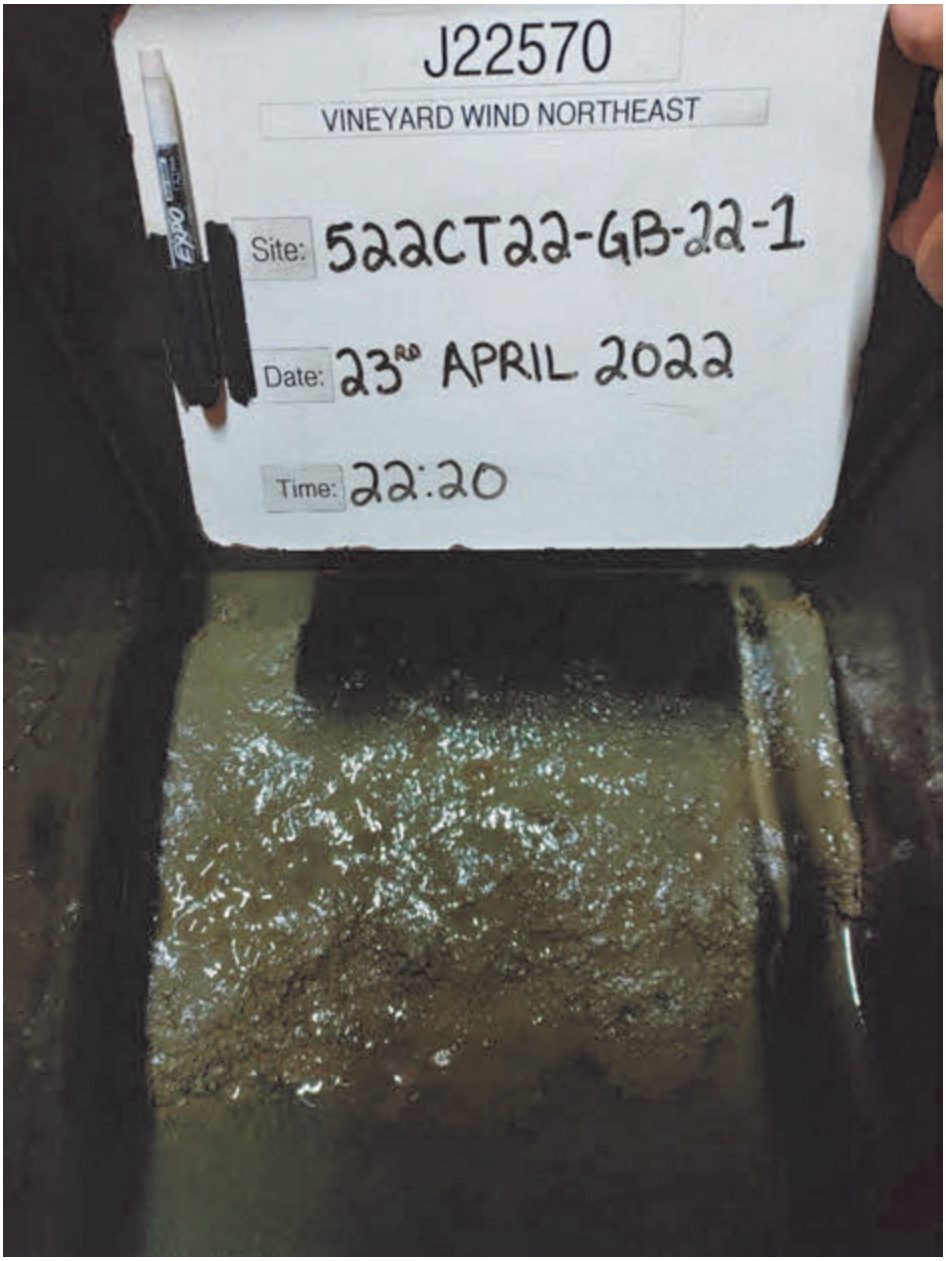

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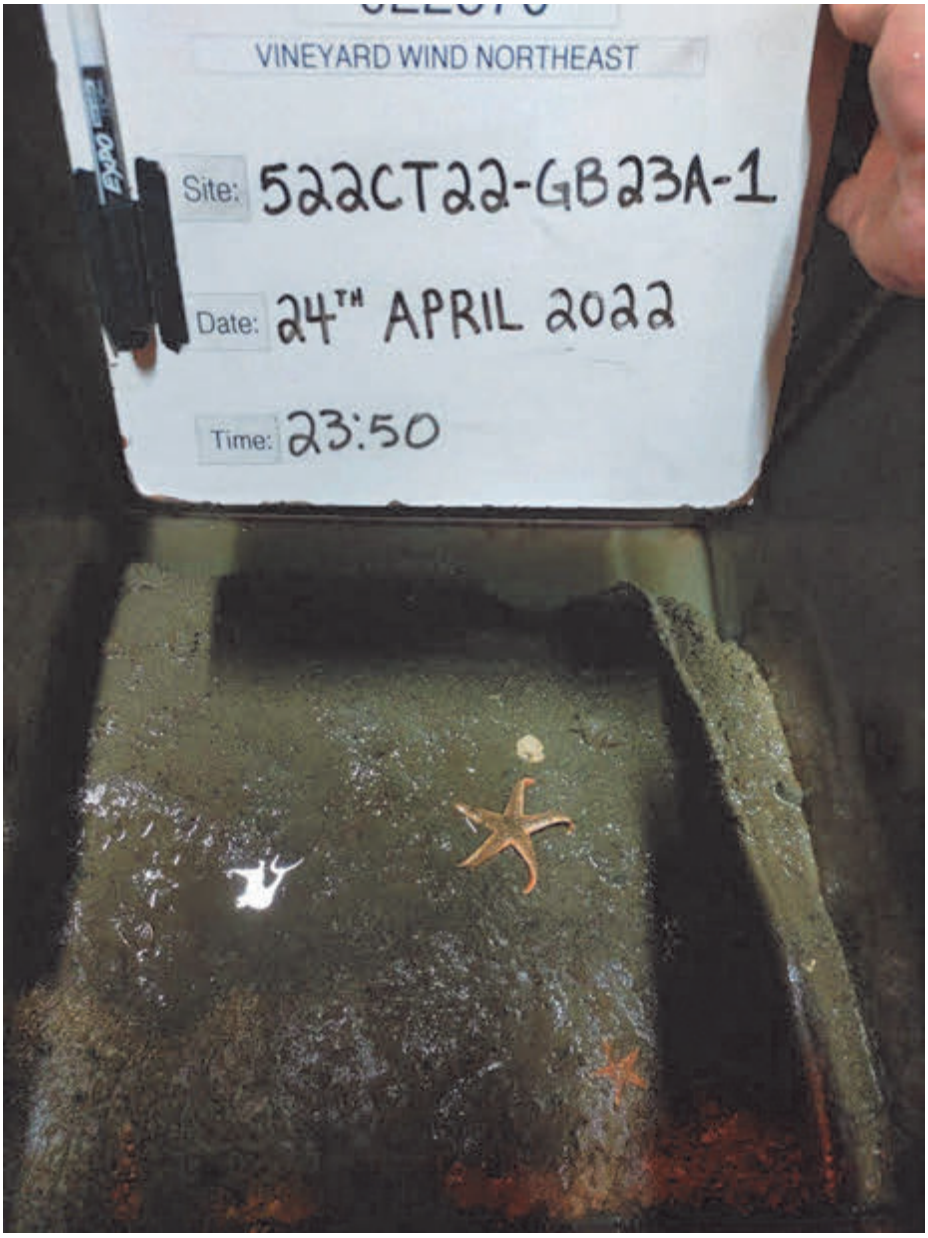

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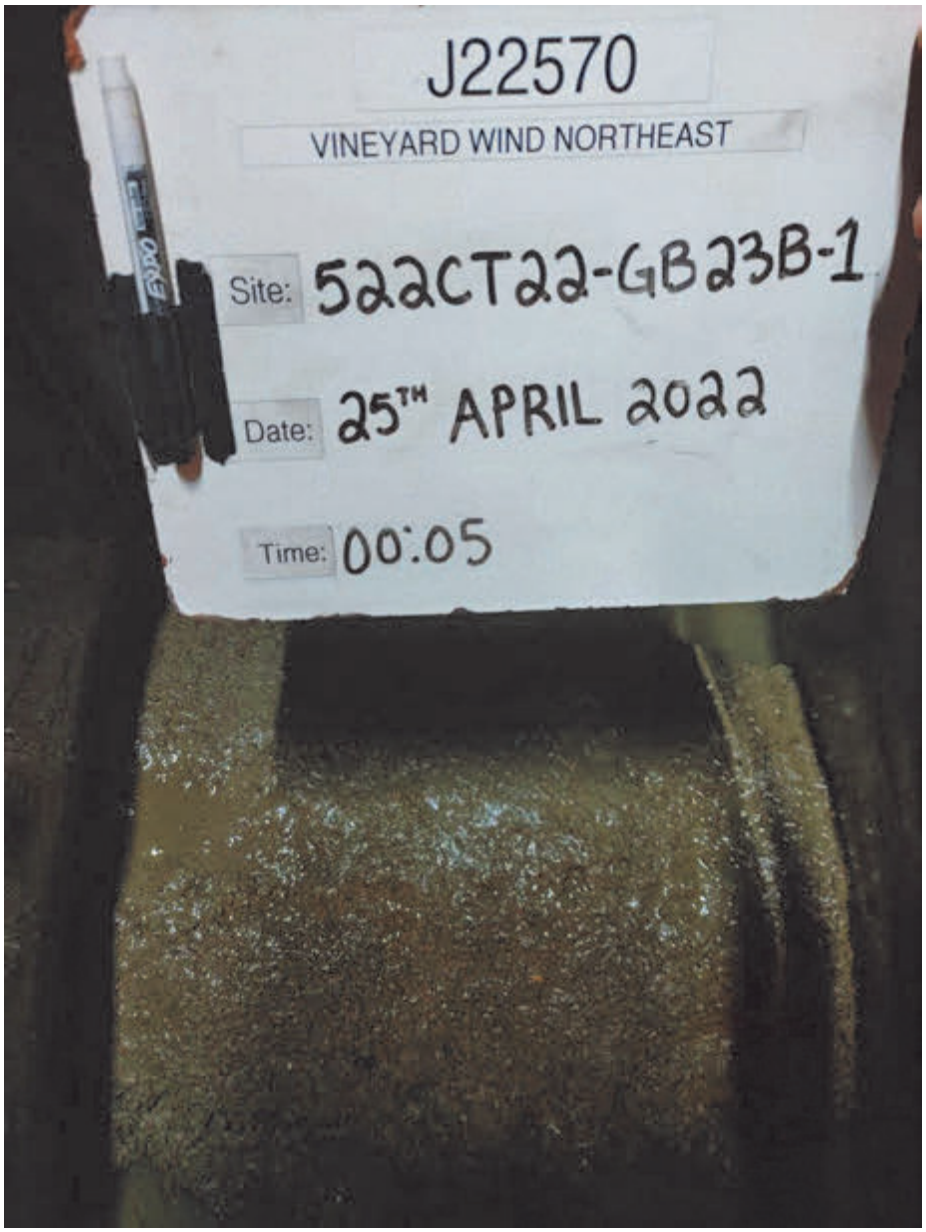

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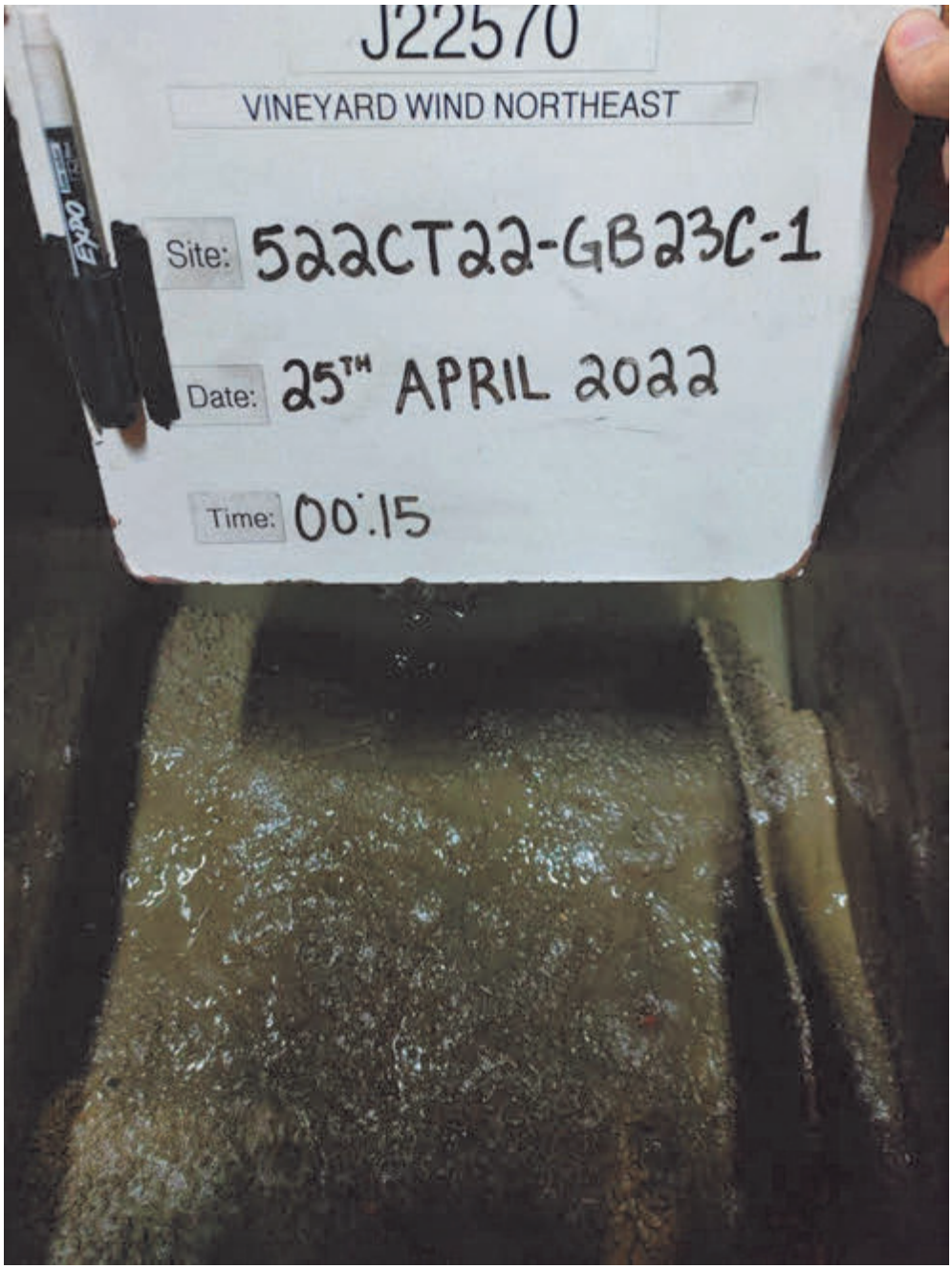

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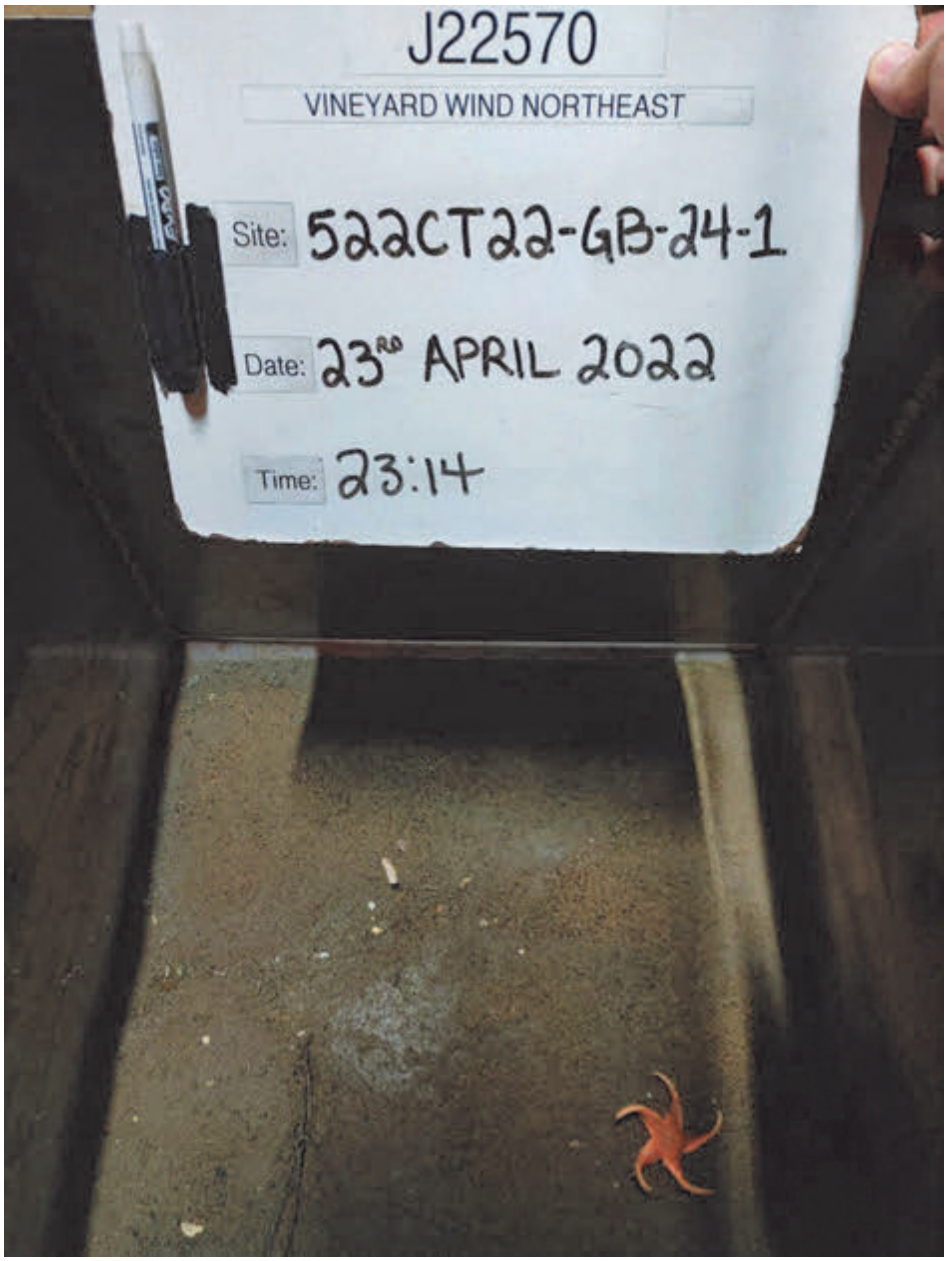

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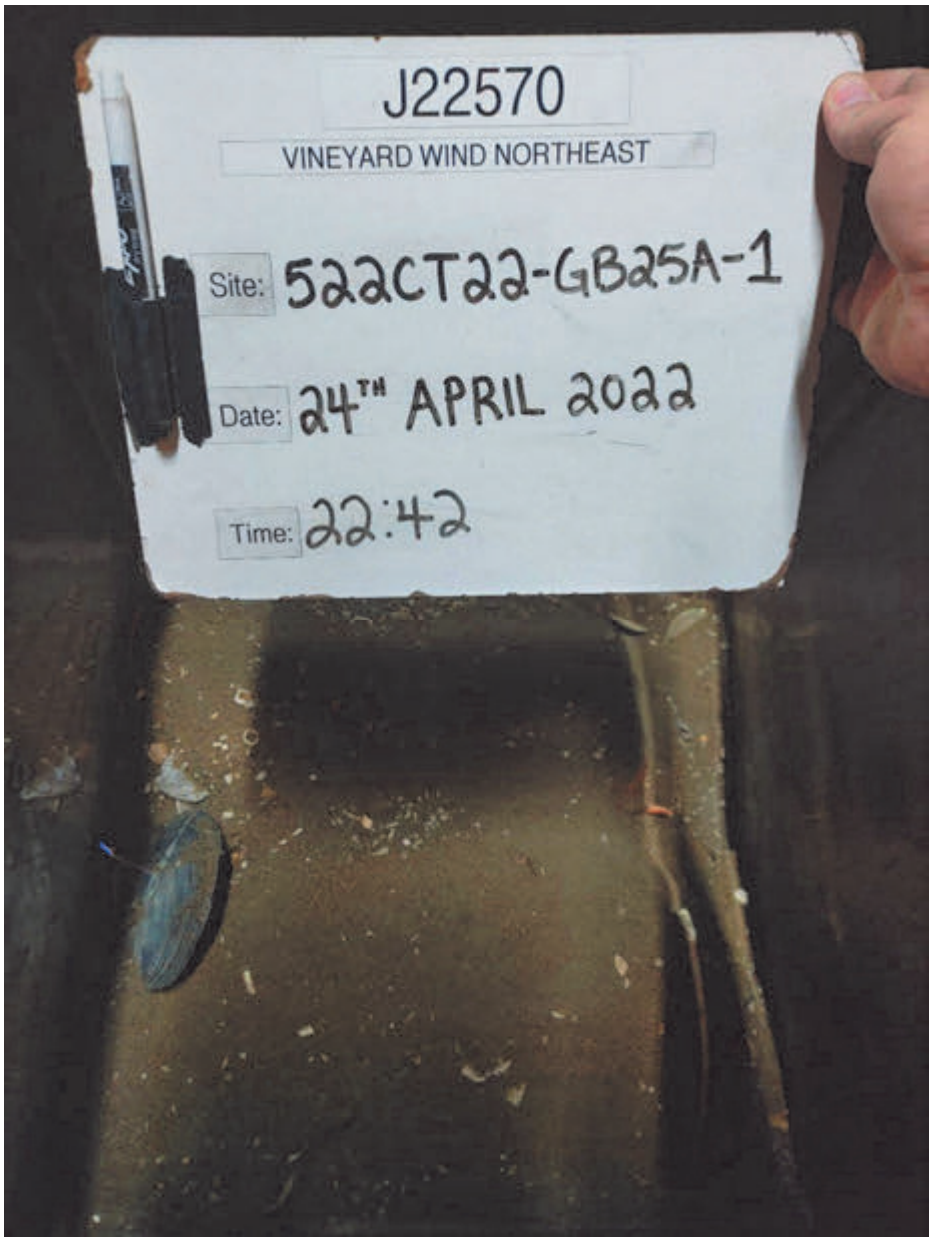

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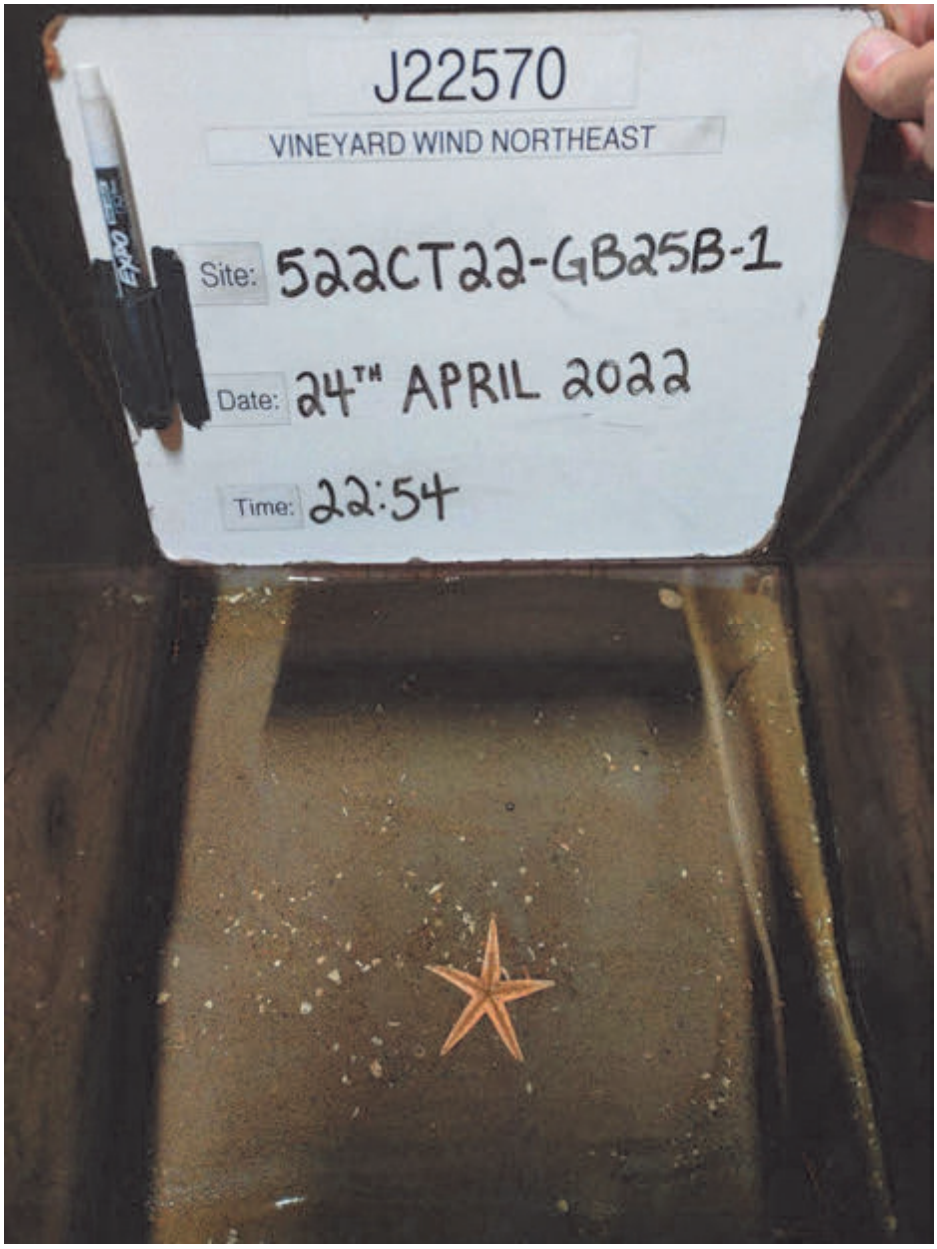

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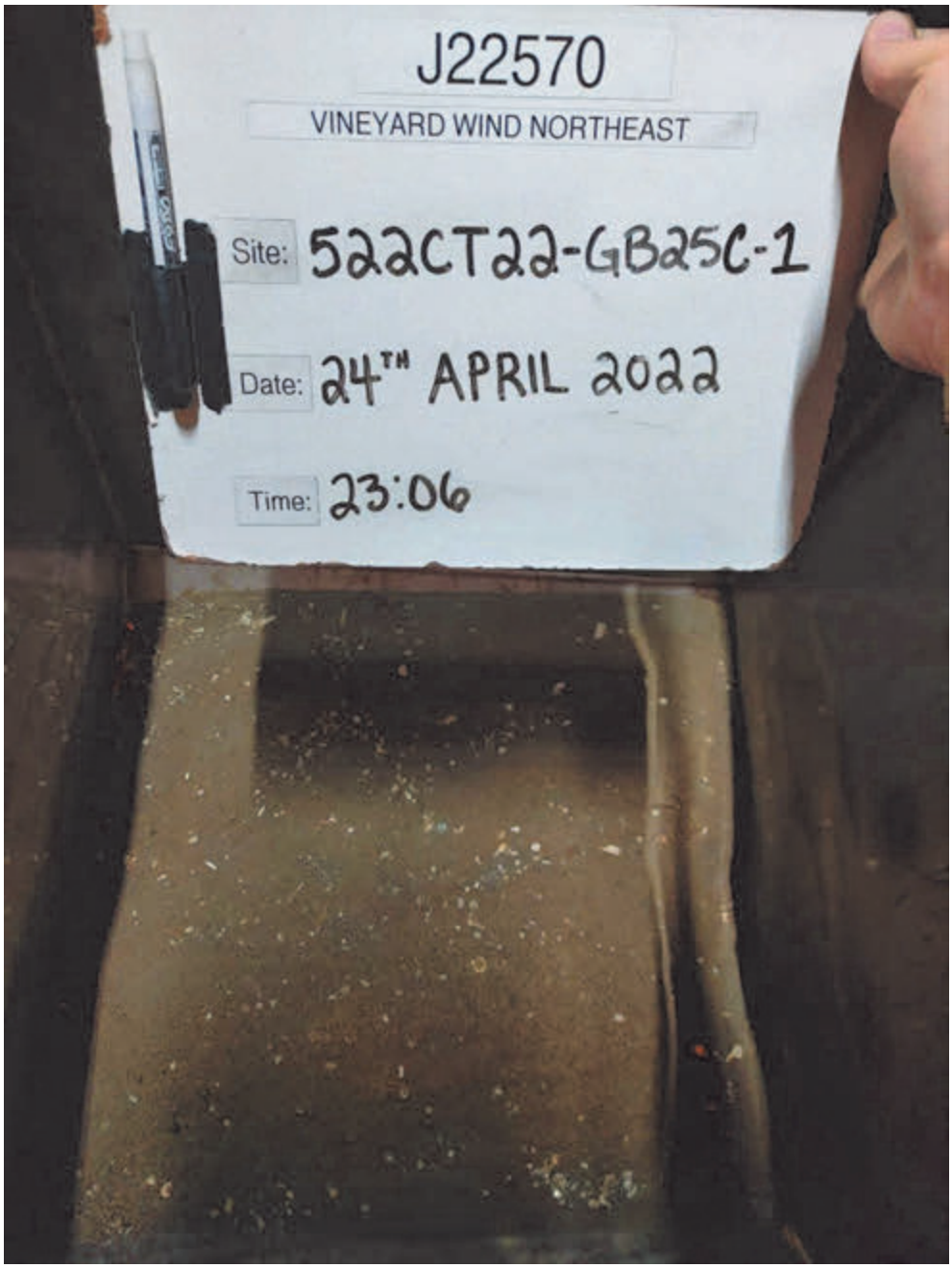

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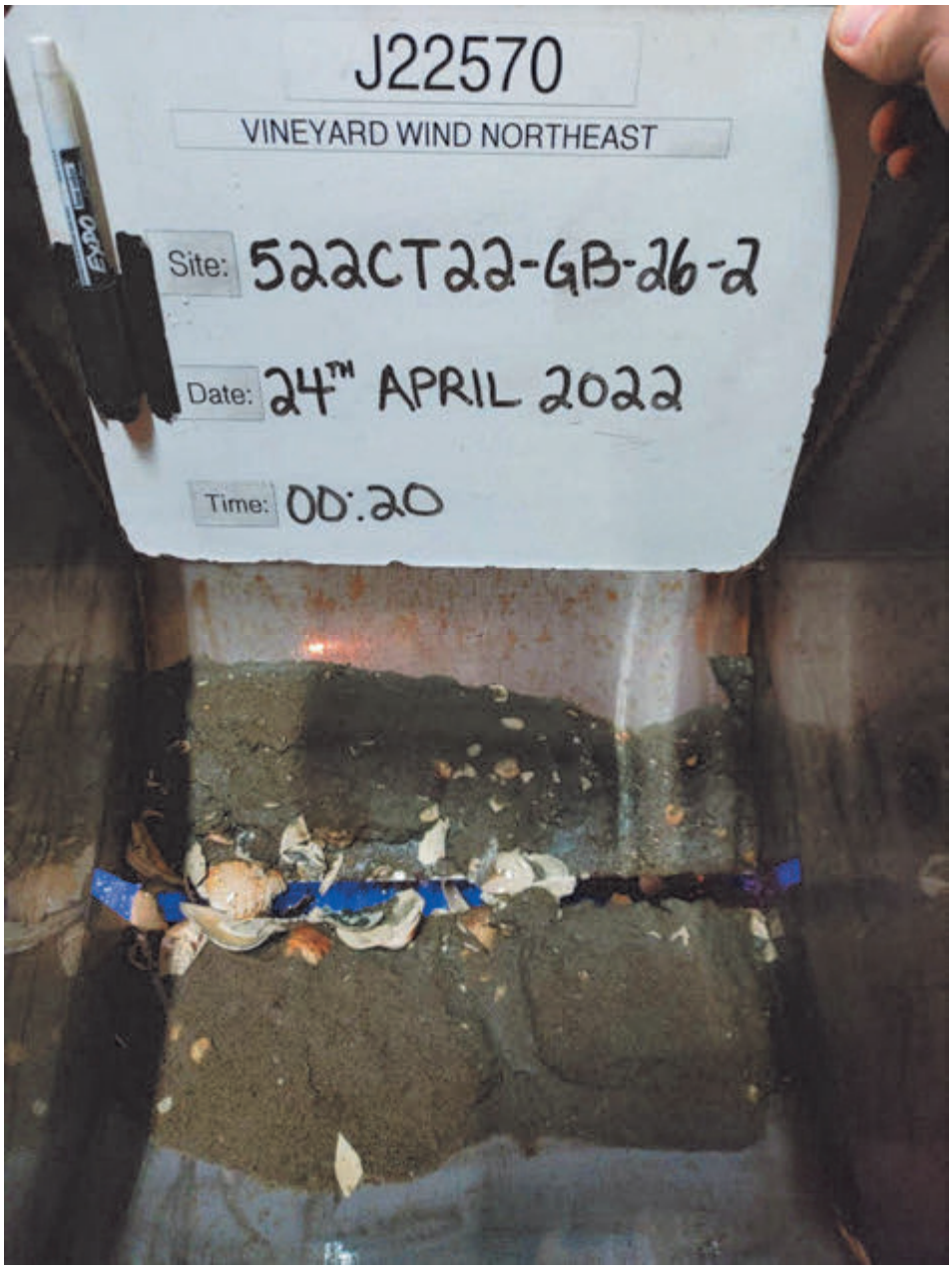

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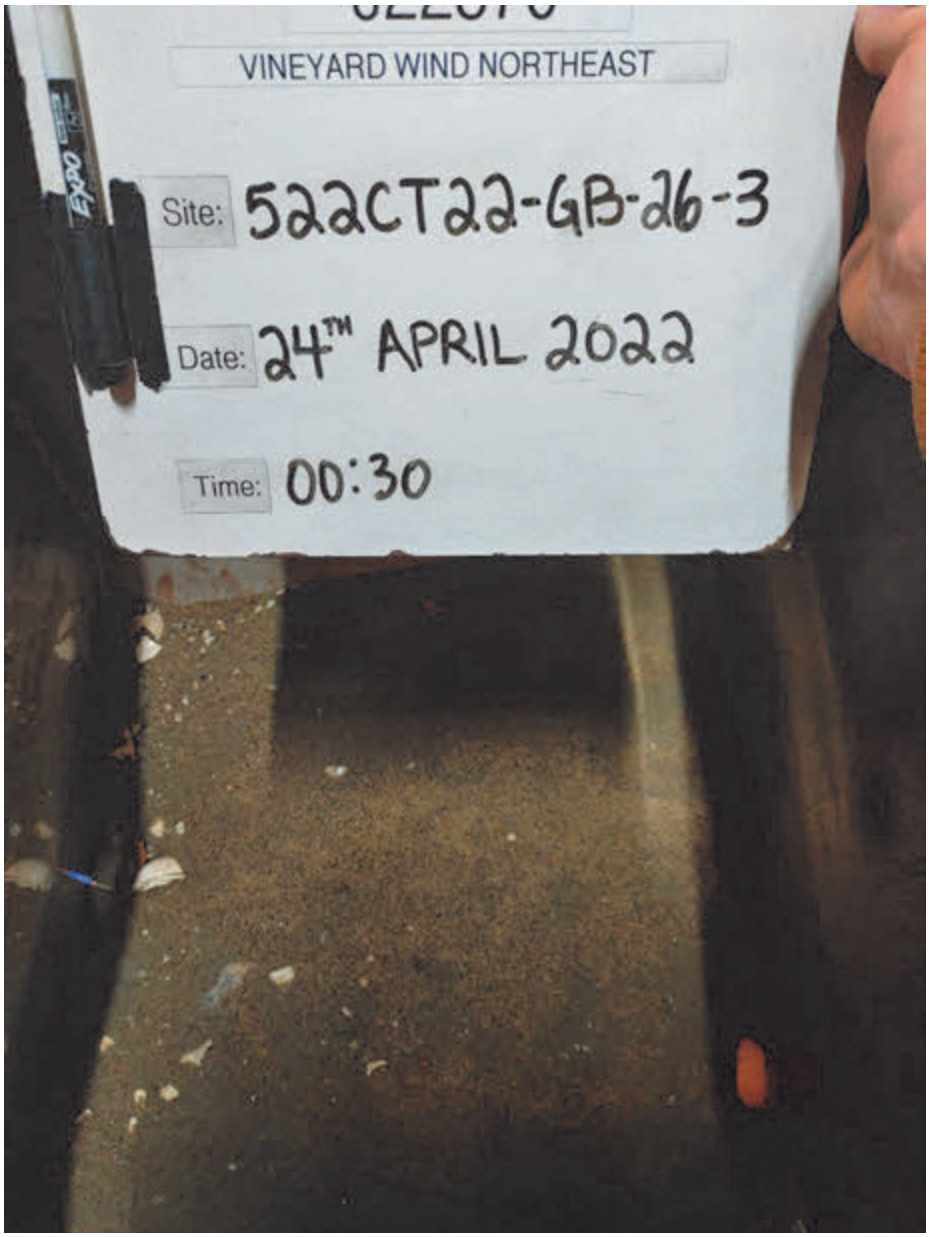

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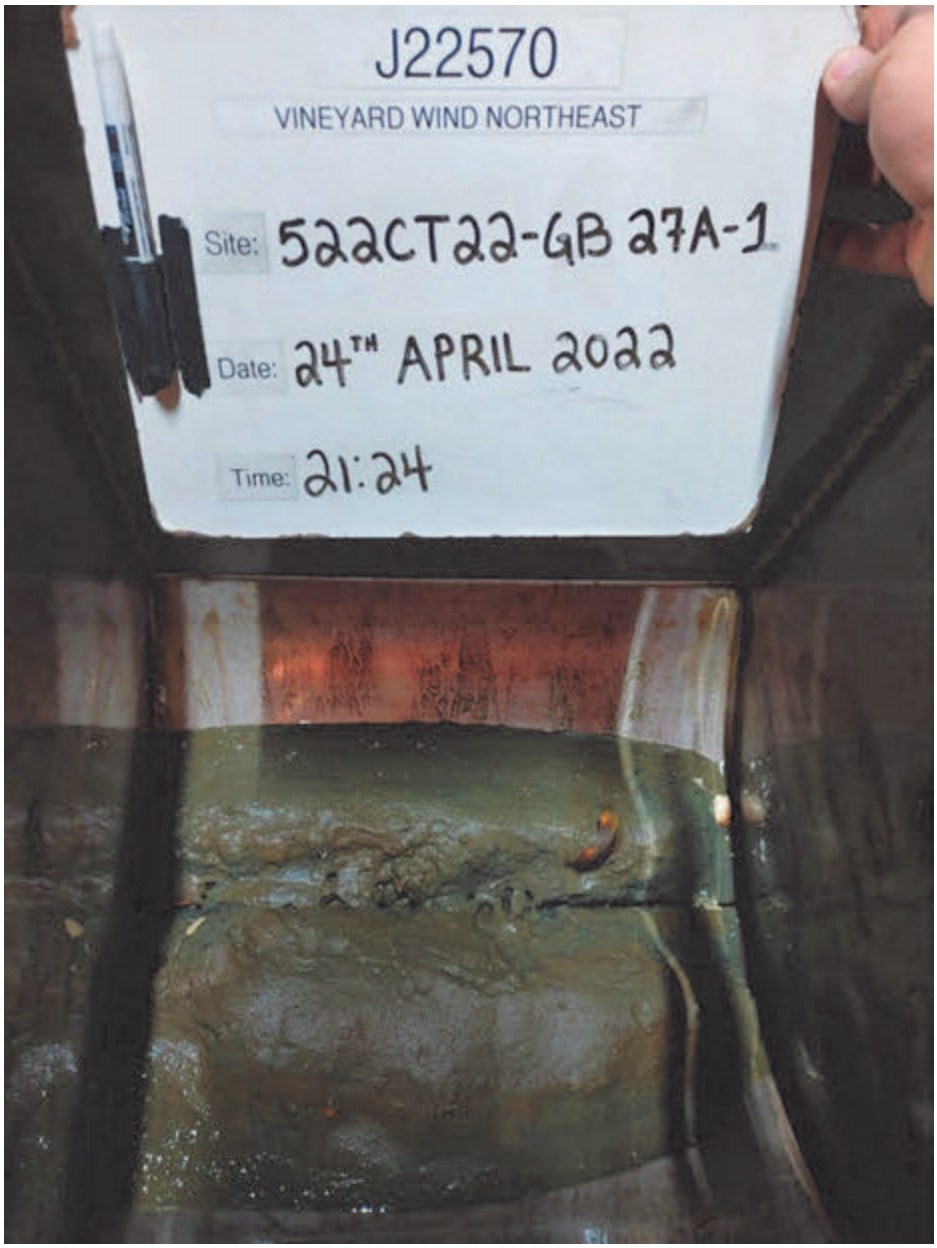

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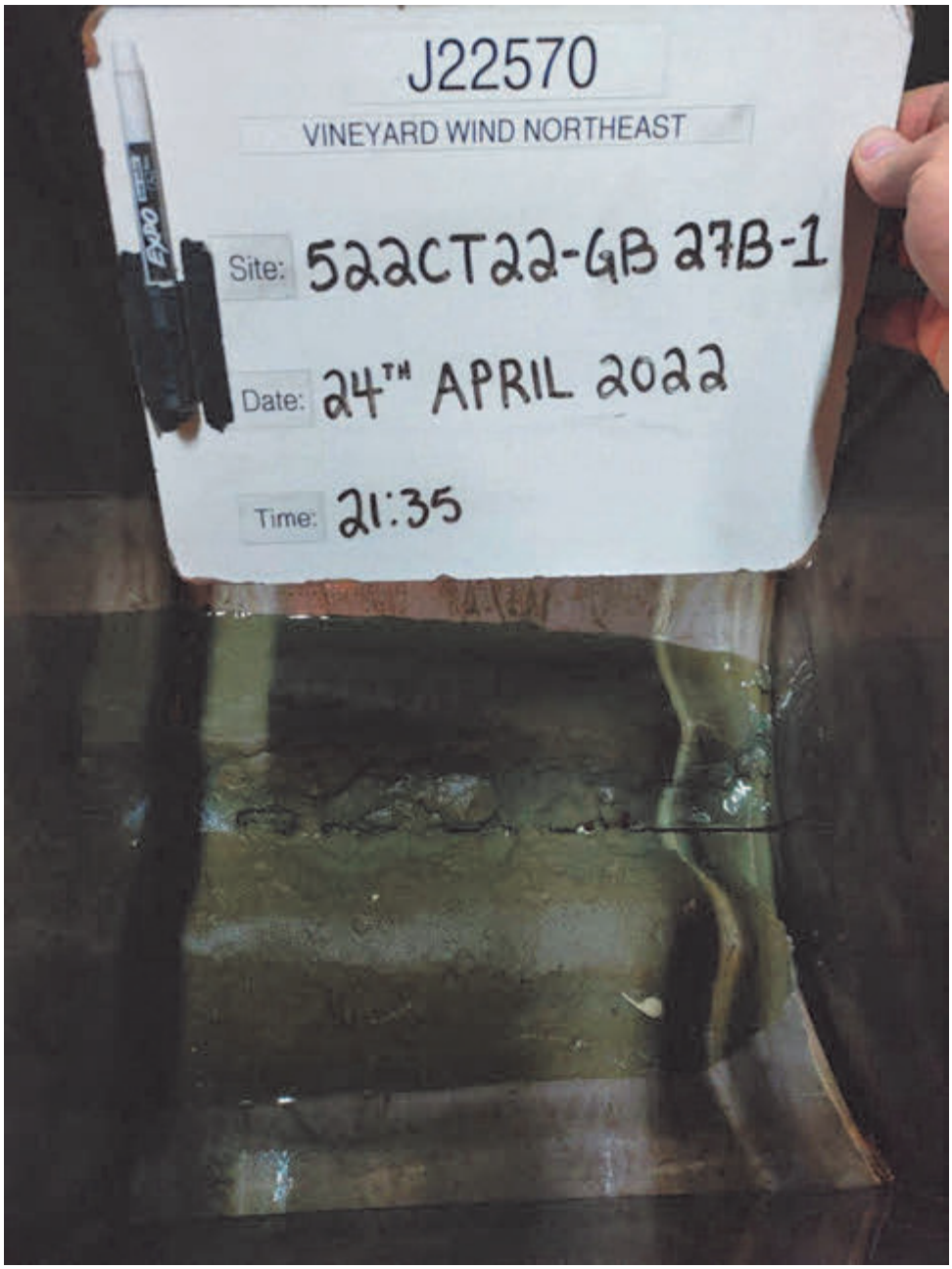

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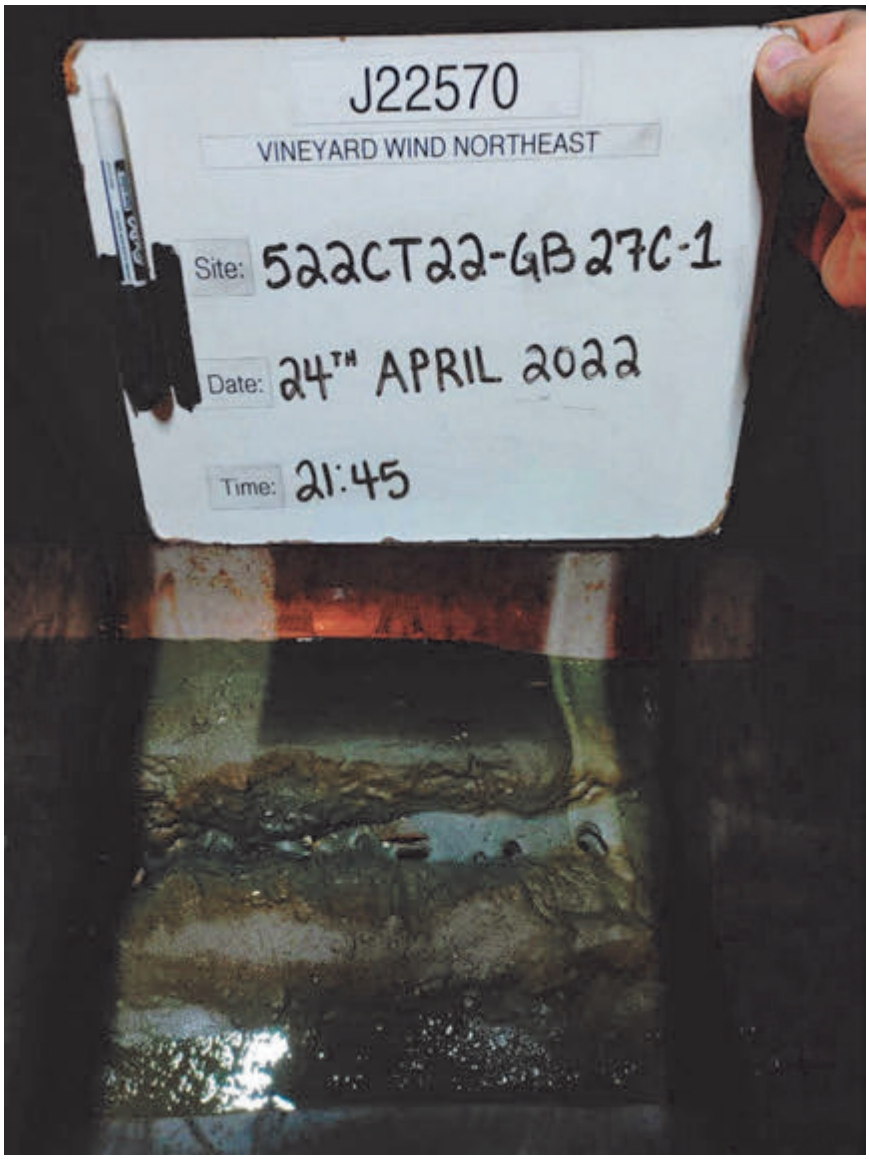

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Sample ID 522CT22-GB028-1

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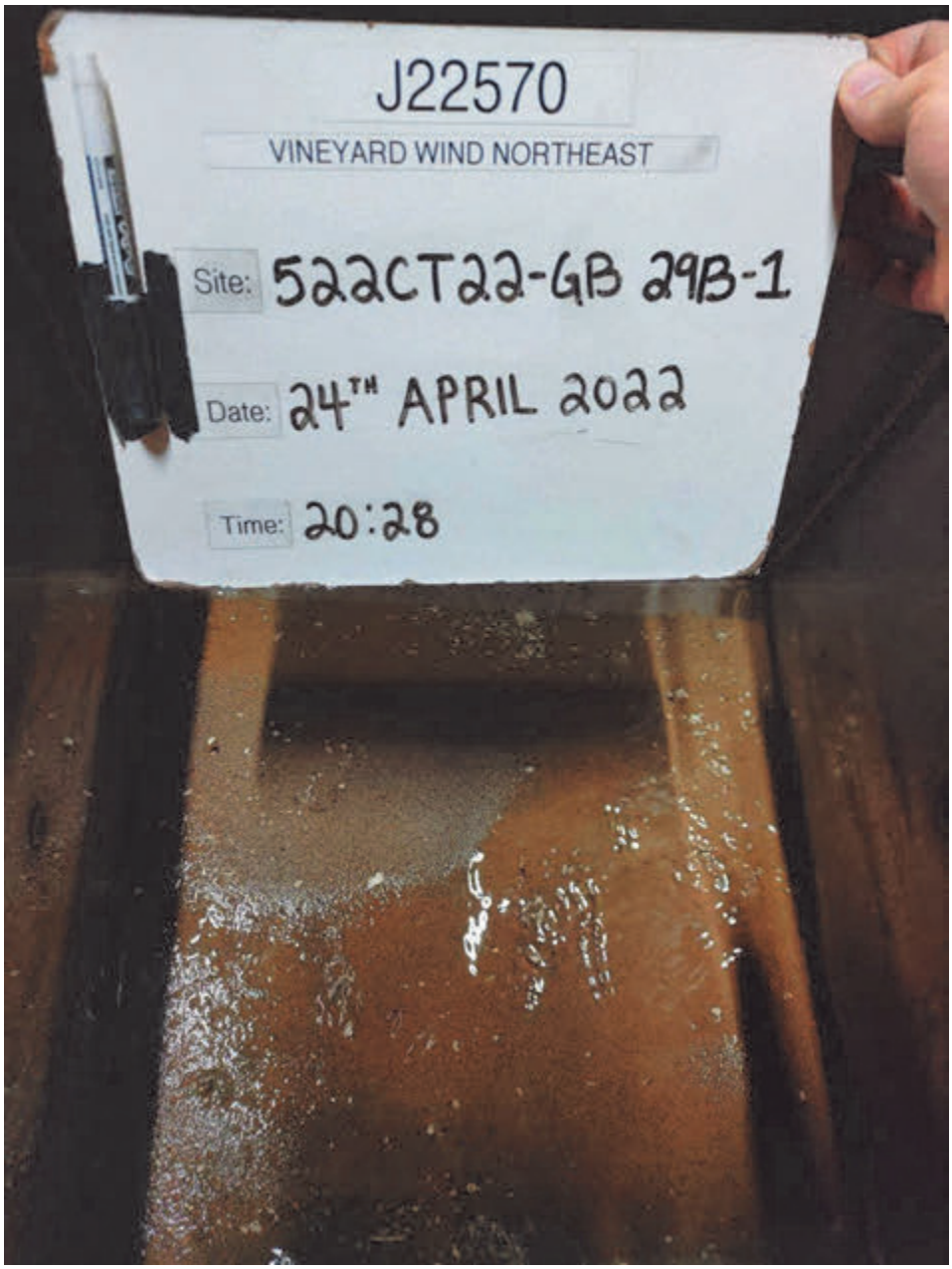

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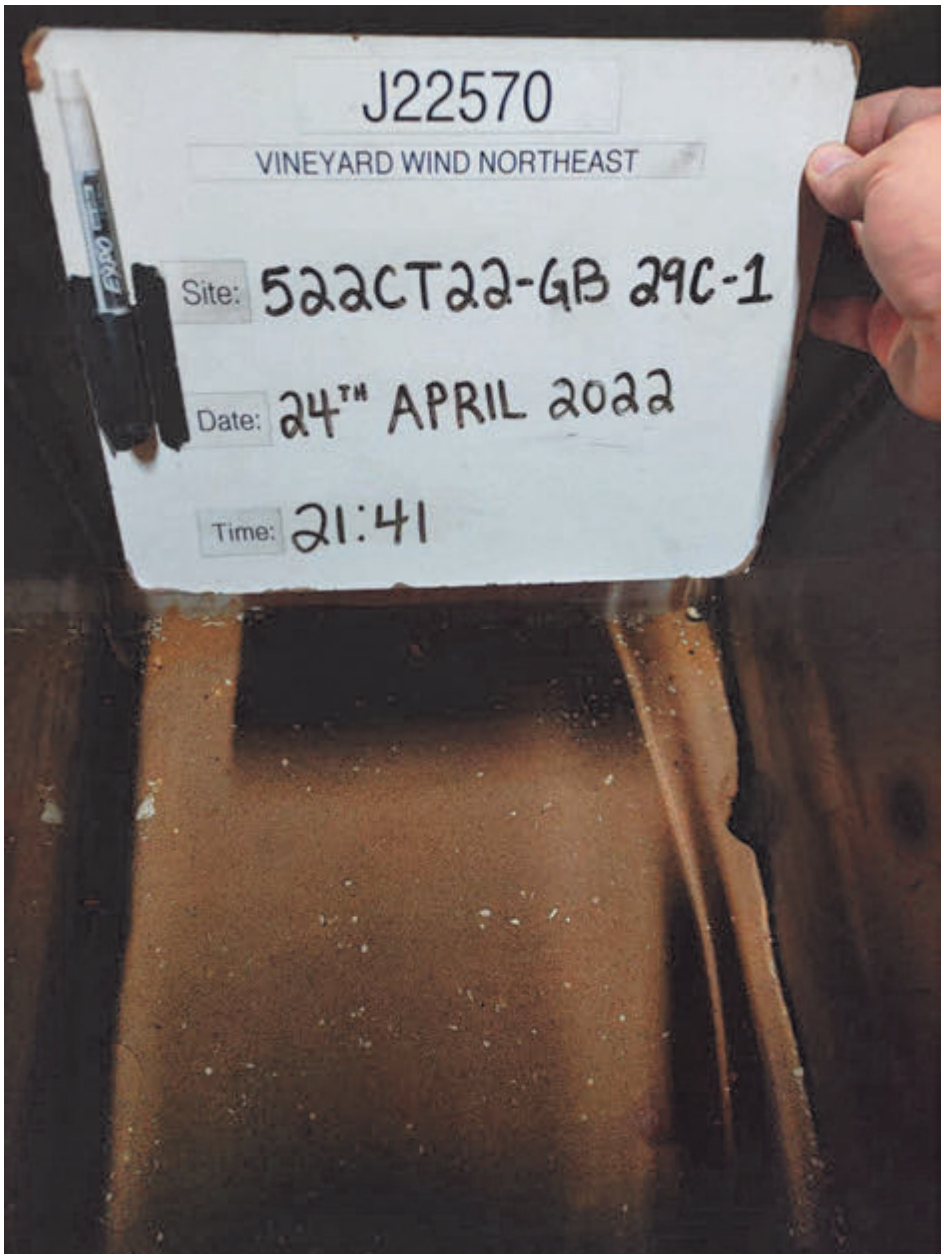

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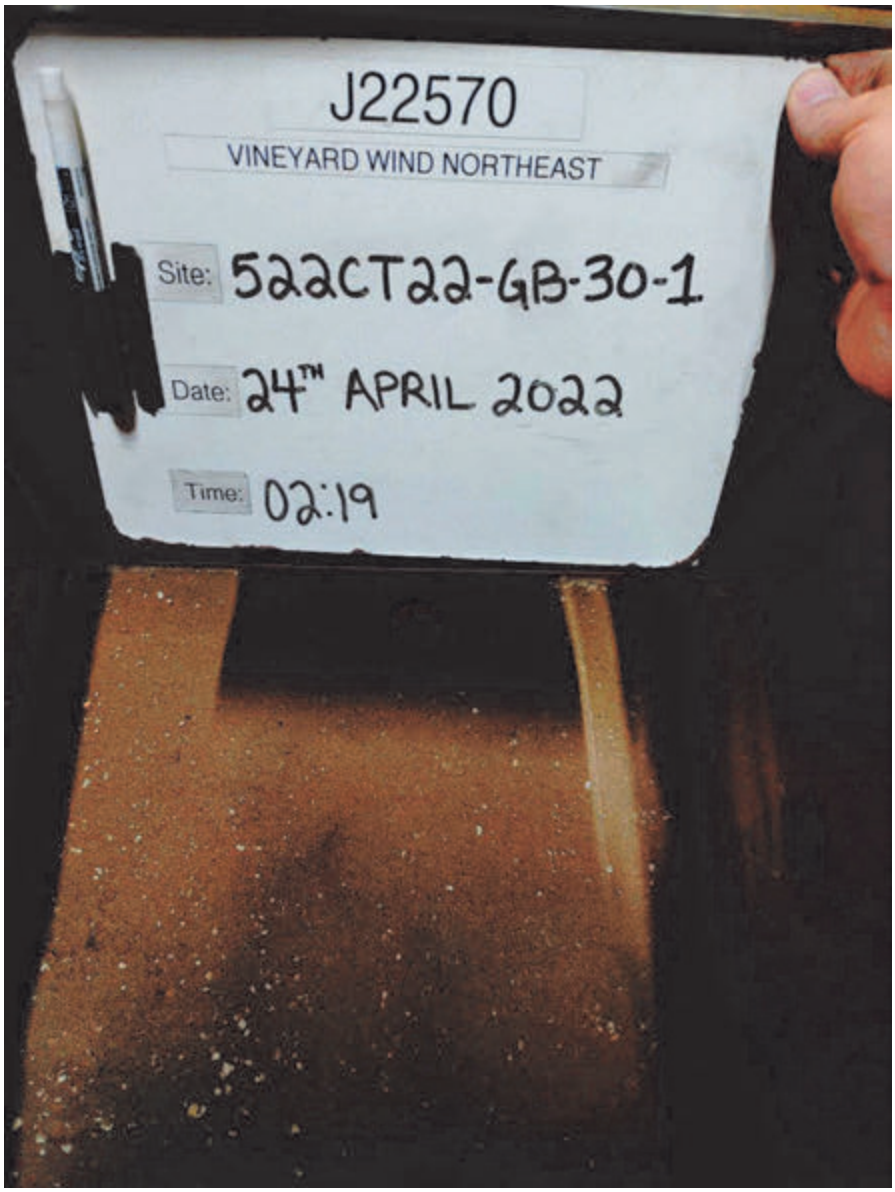

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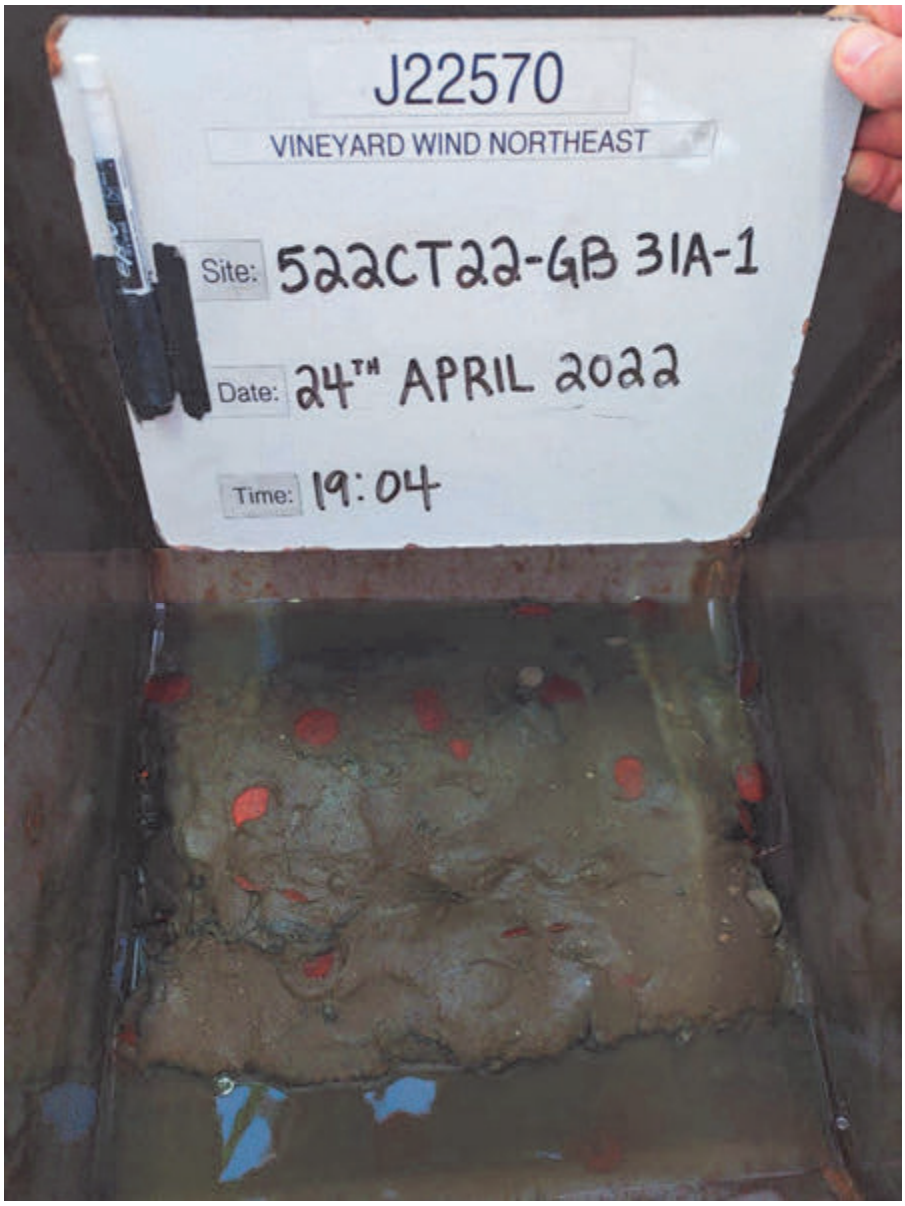

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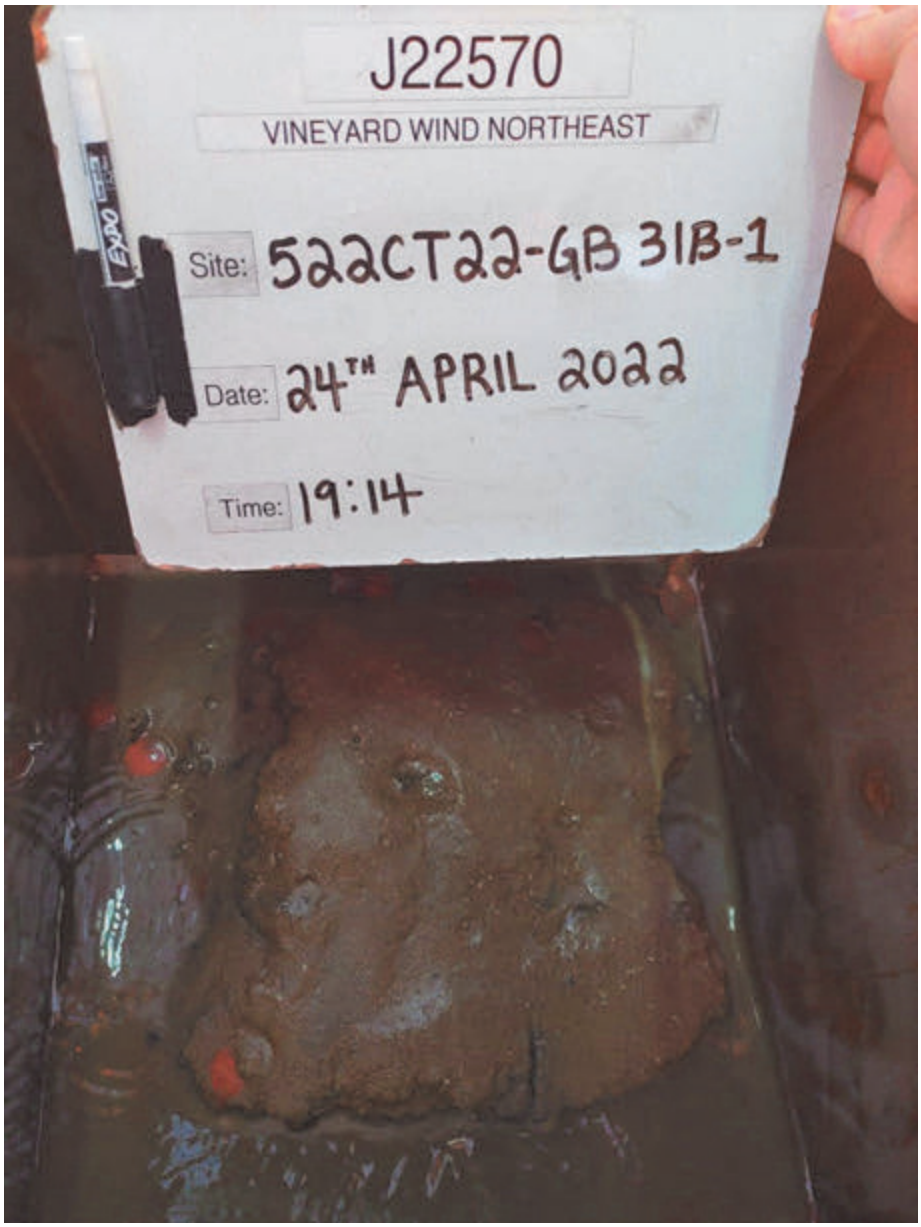

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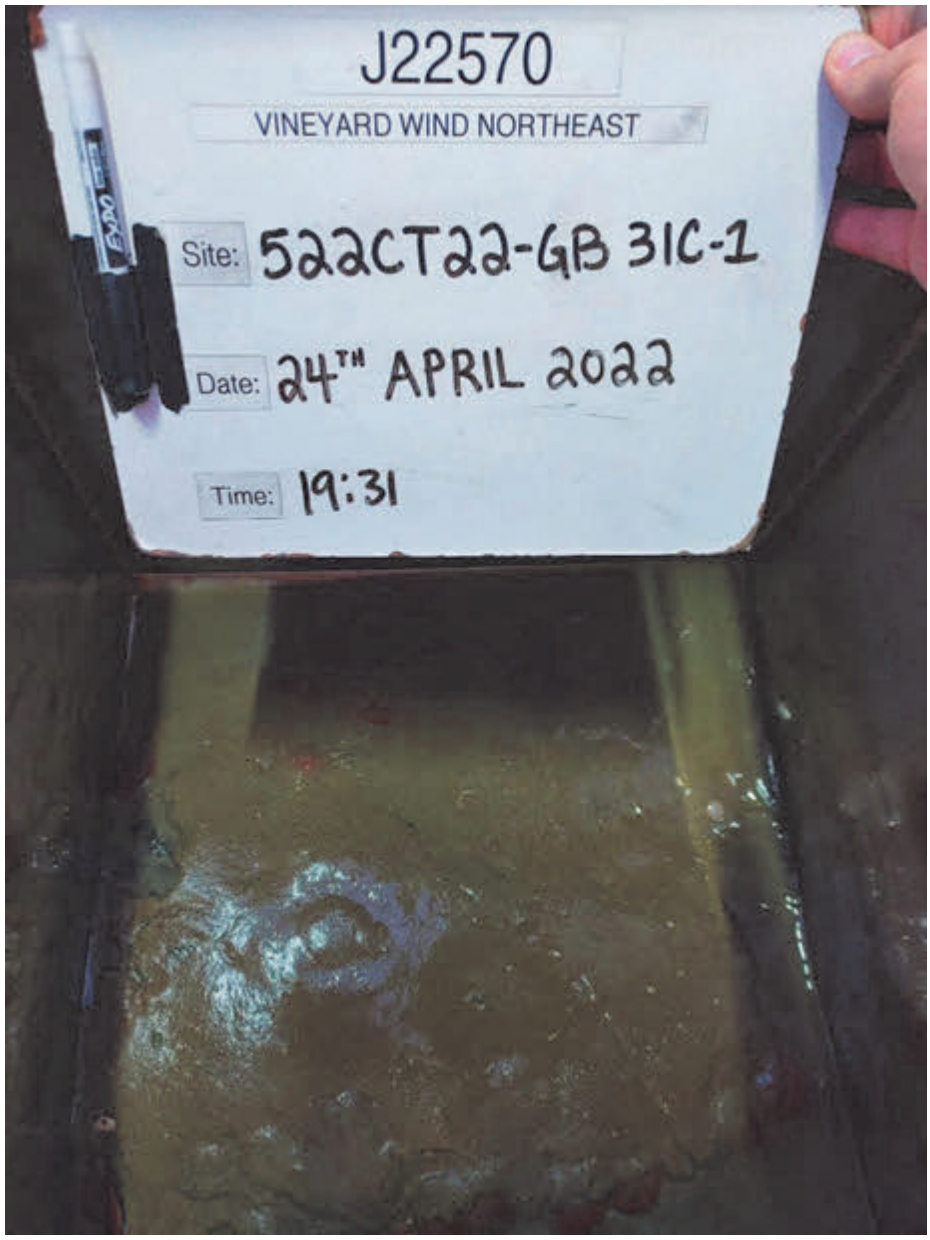

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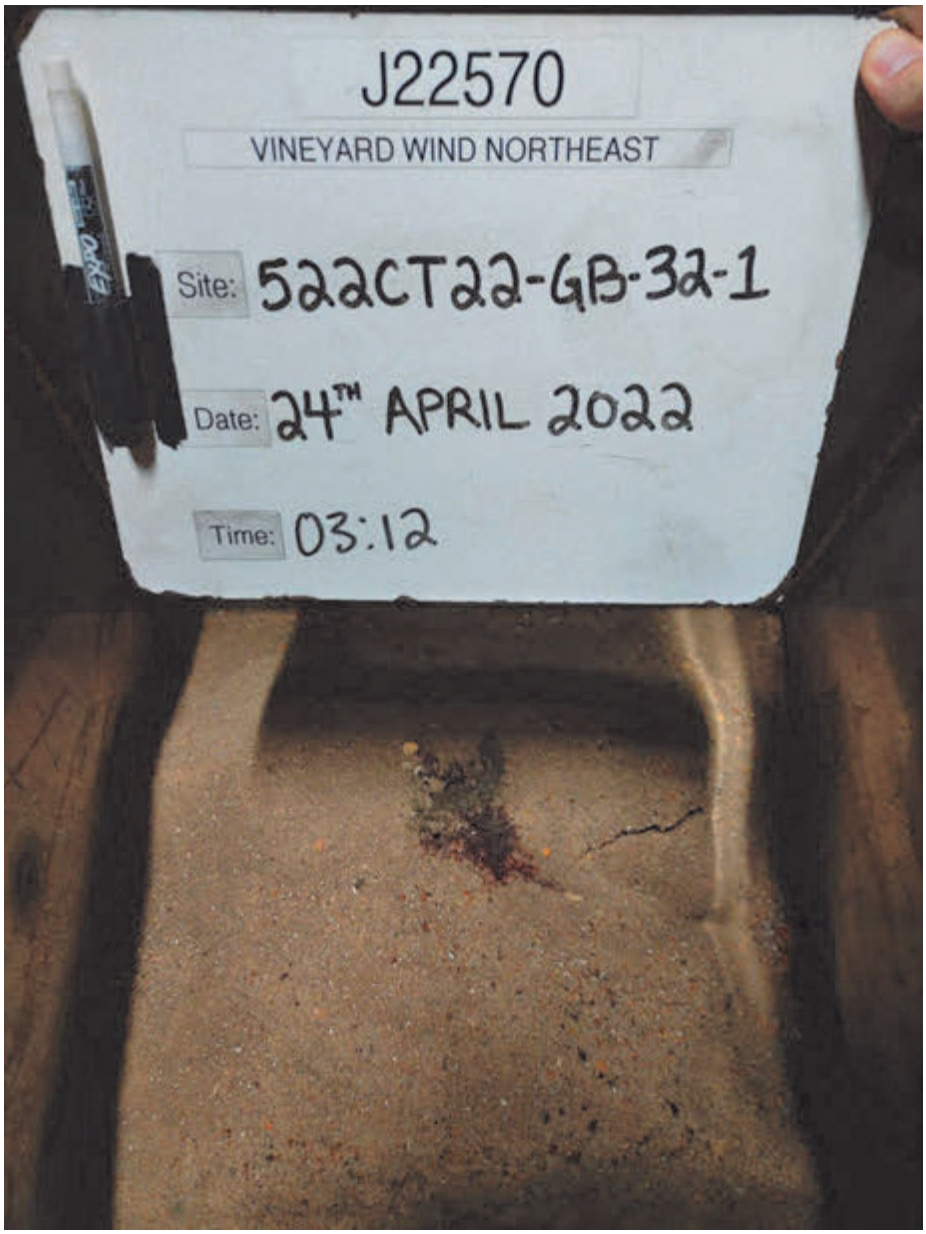

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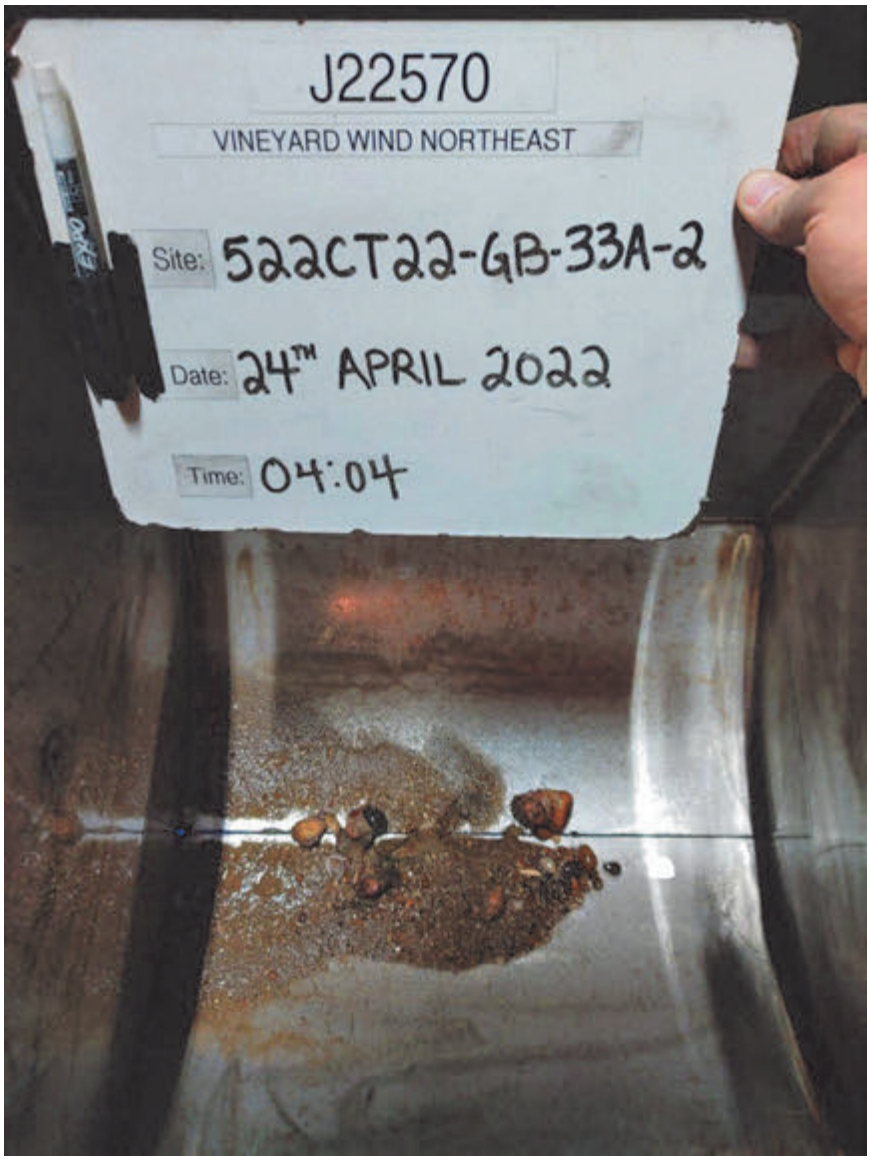

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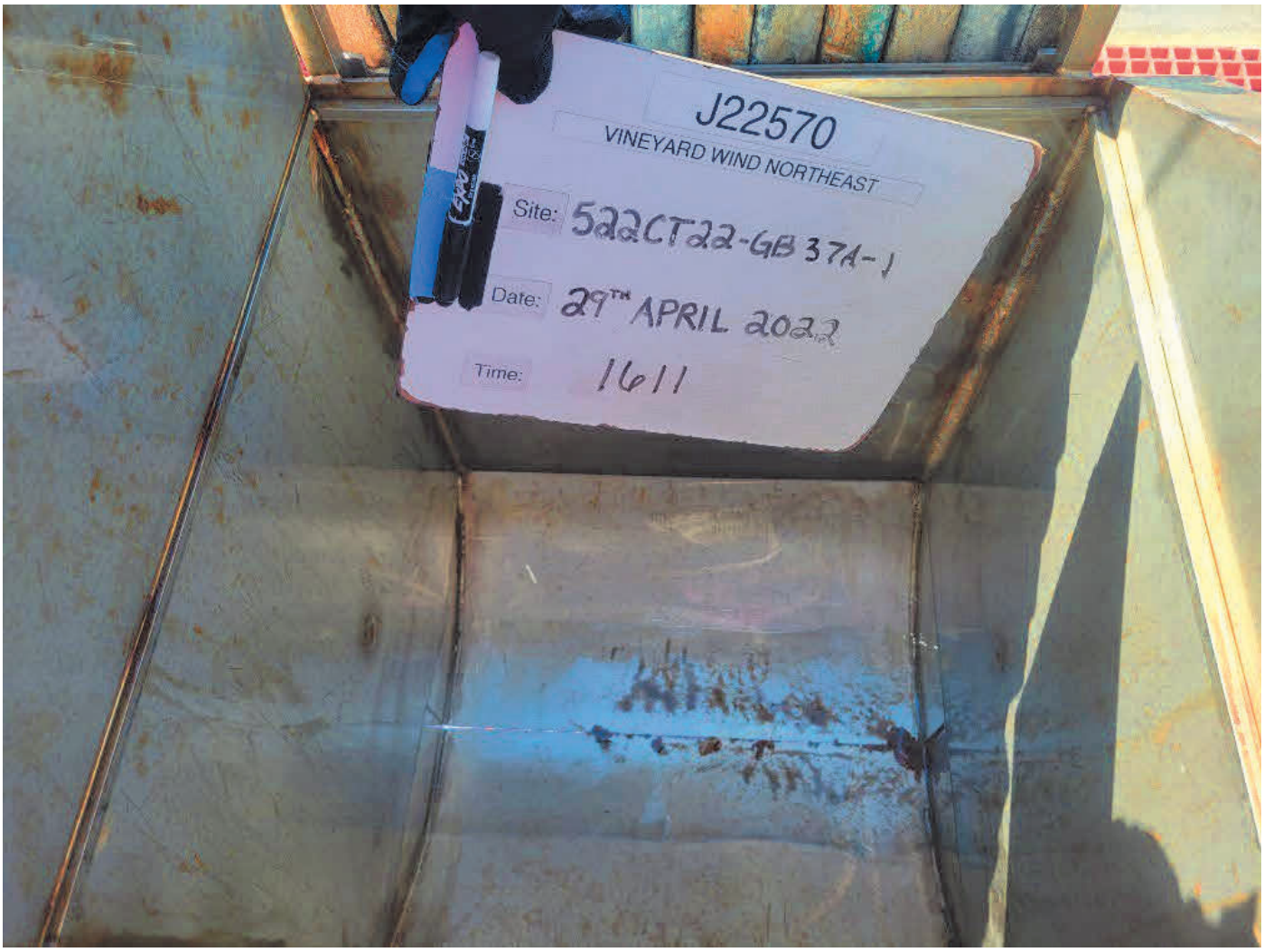

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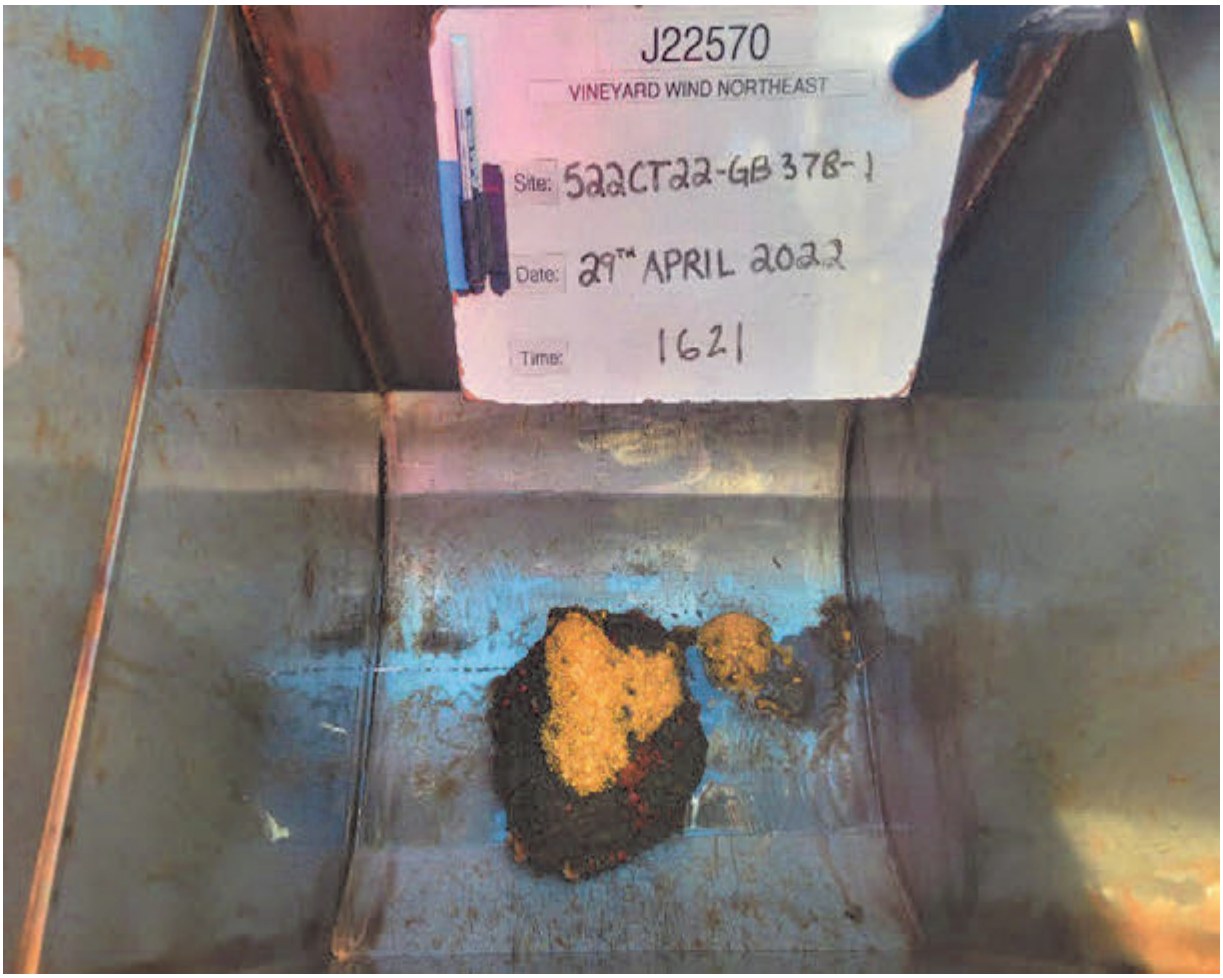

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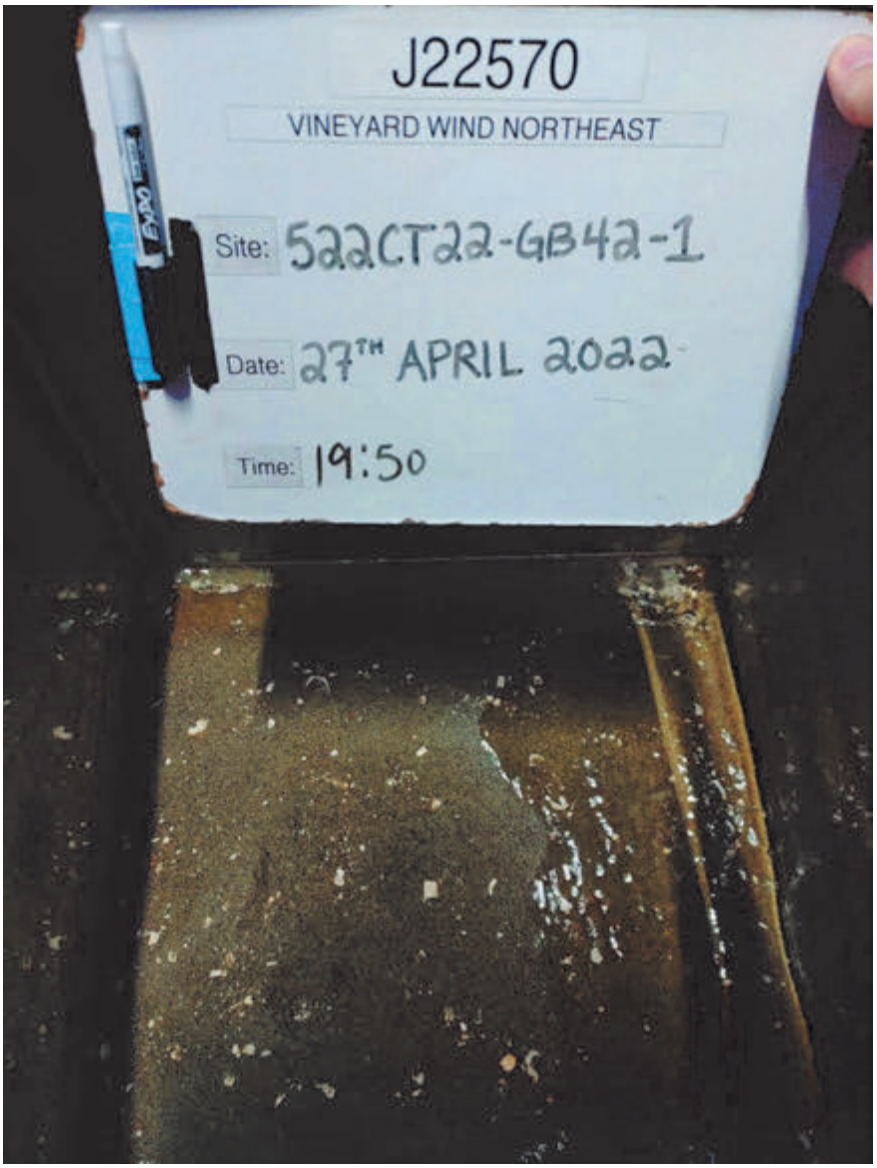

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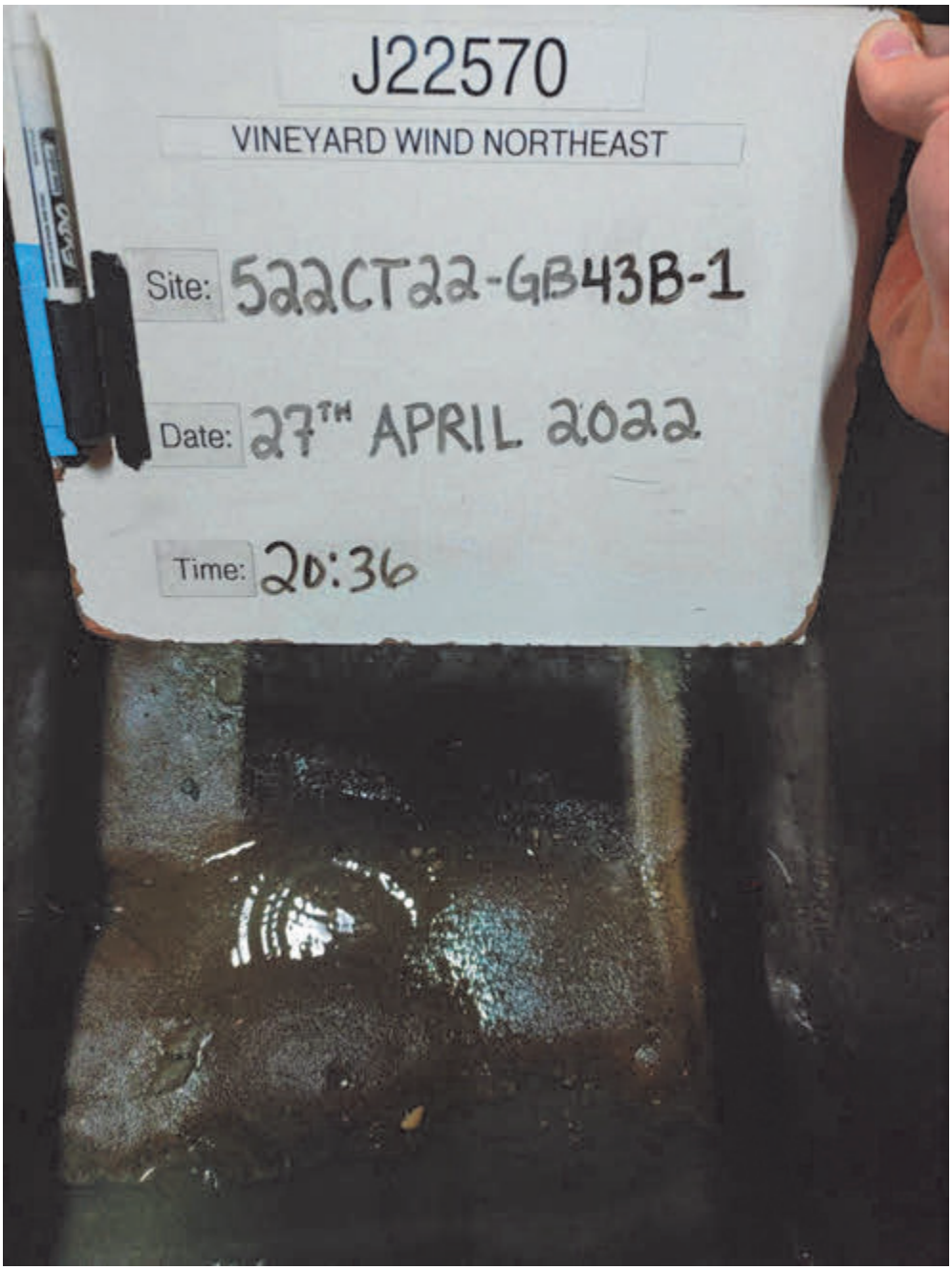

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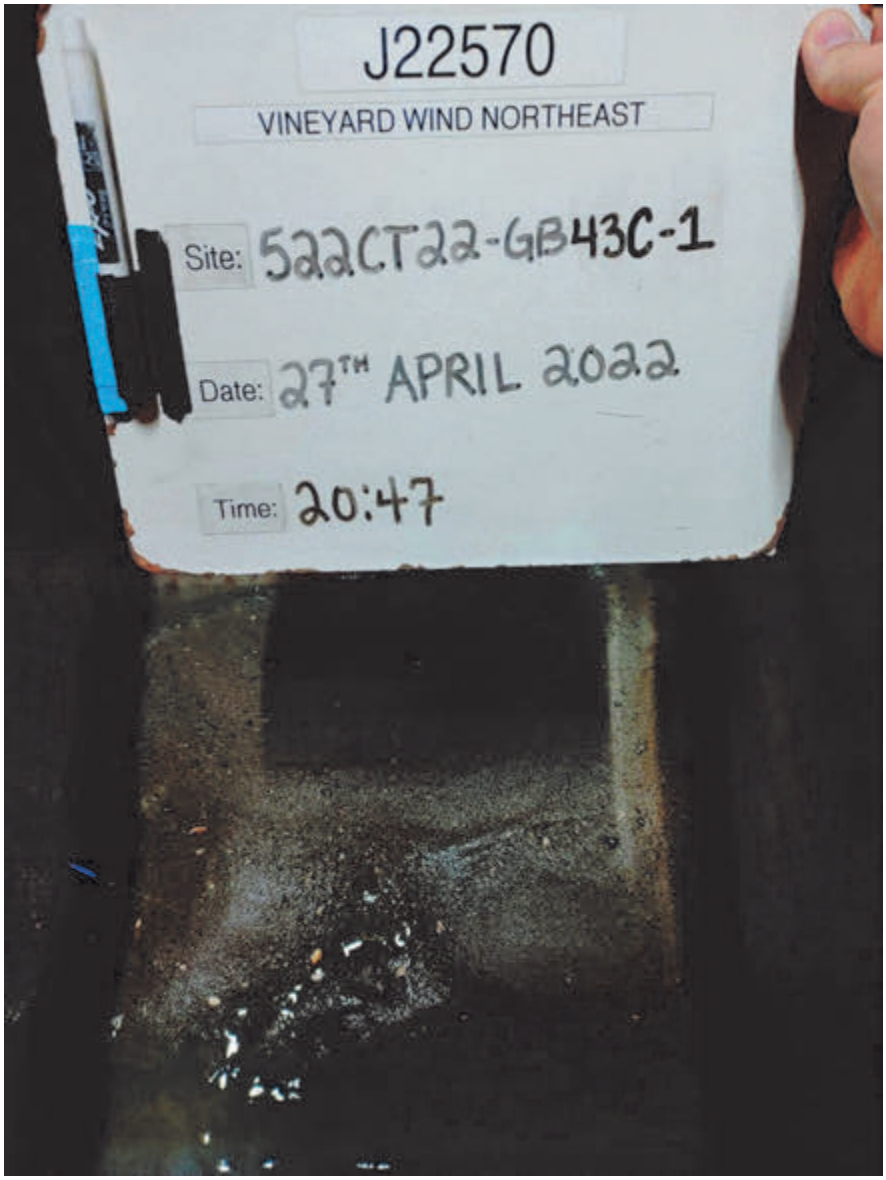

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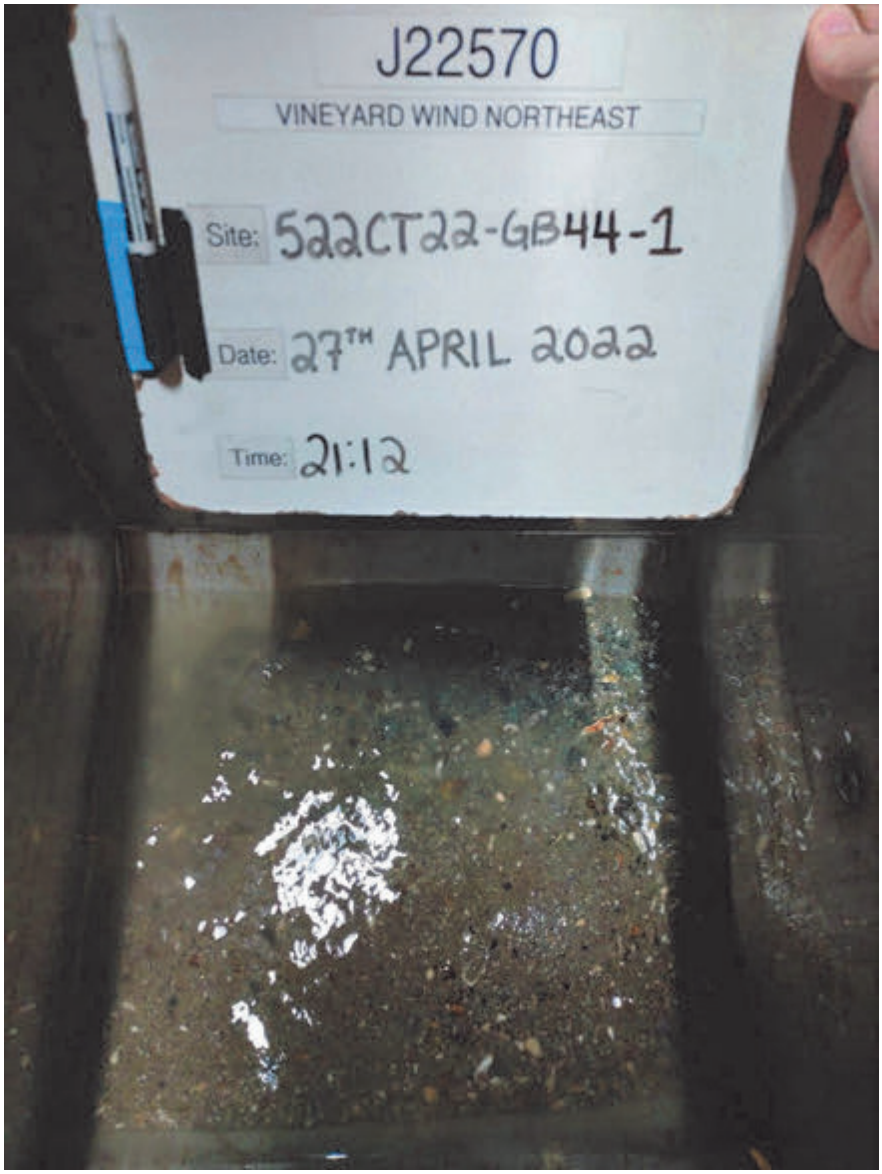

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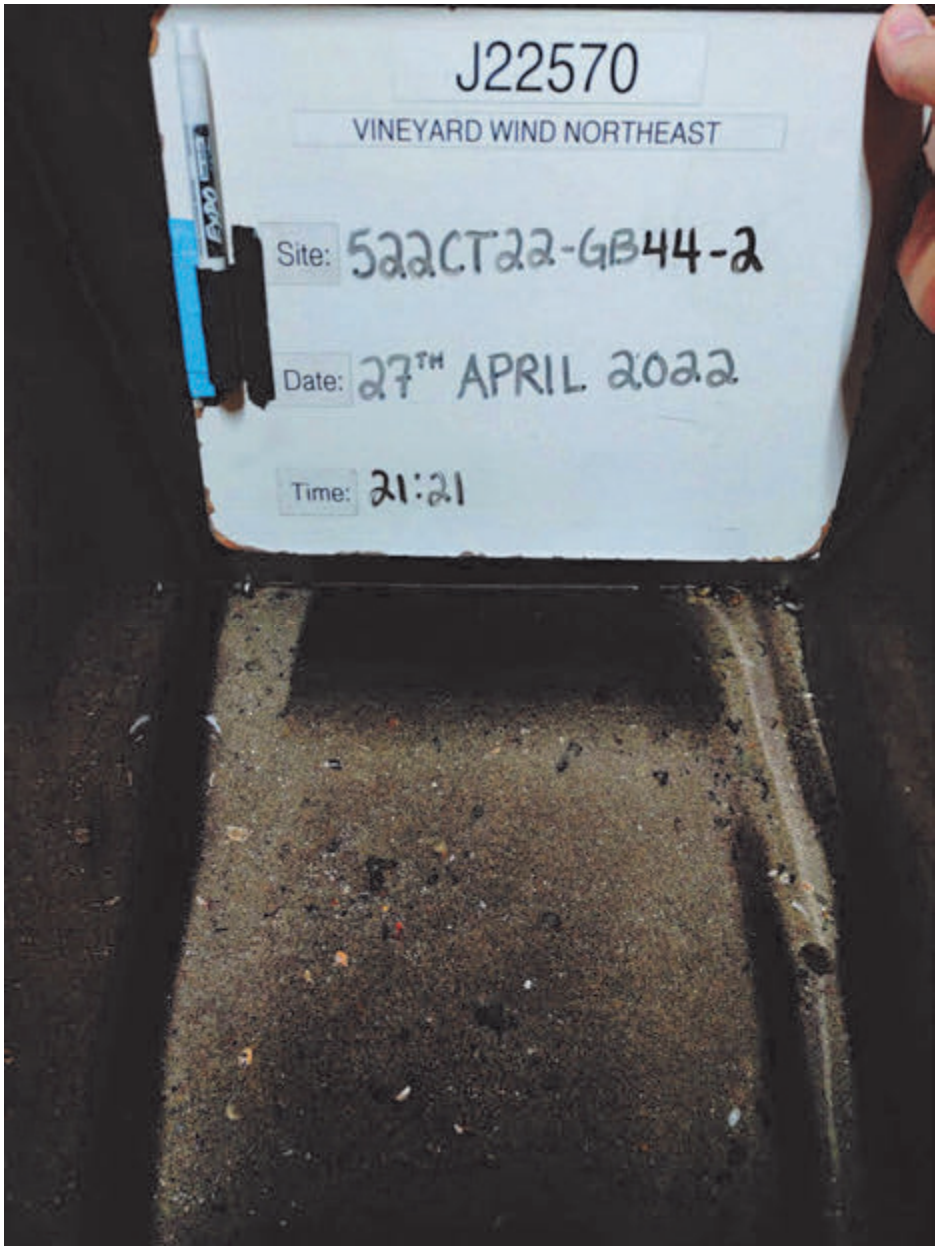

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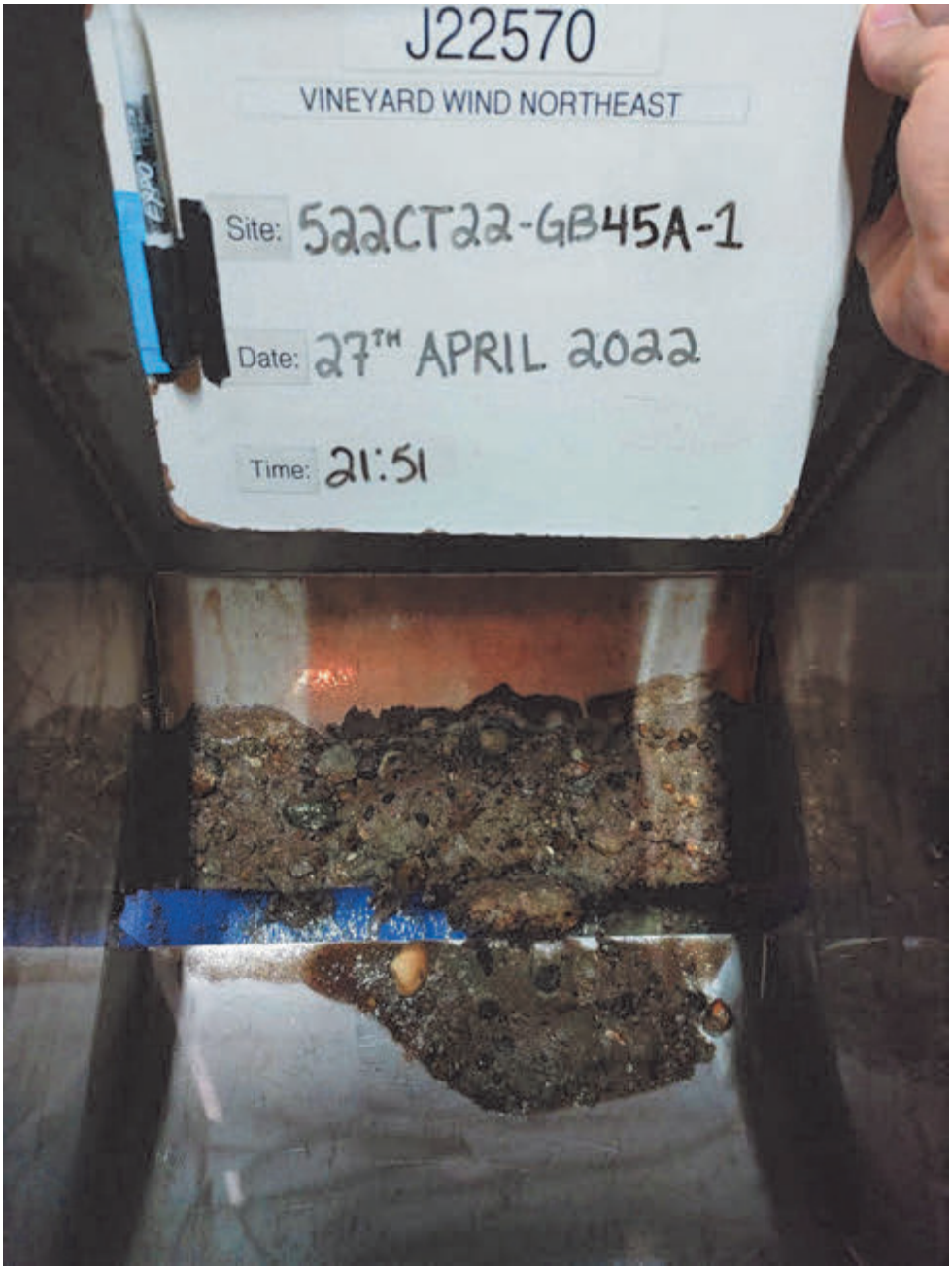

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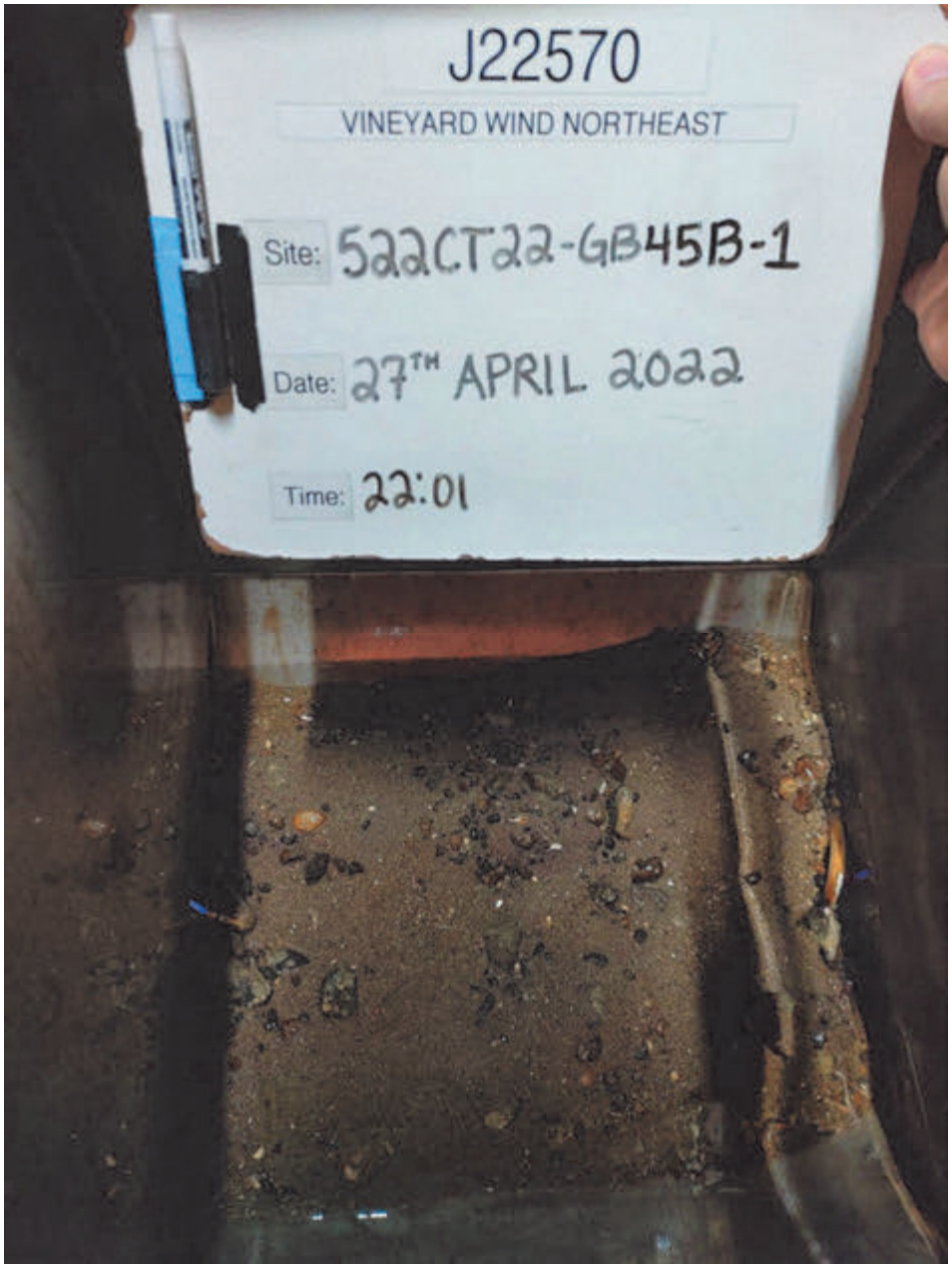

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PHOTO INFORMATION

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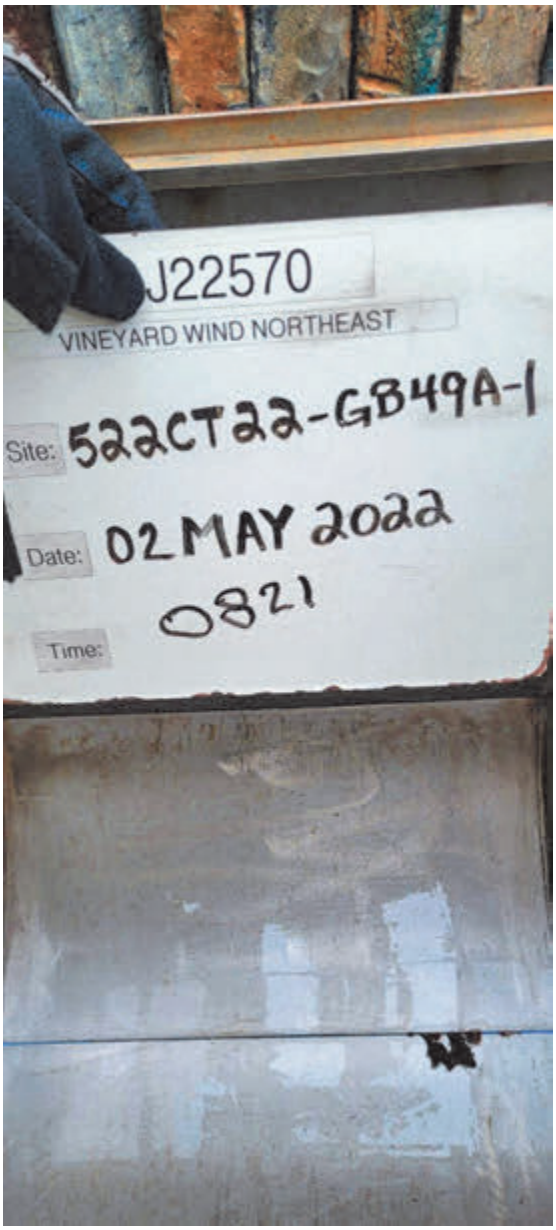

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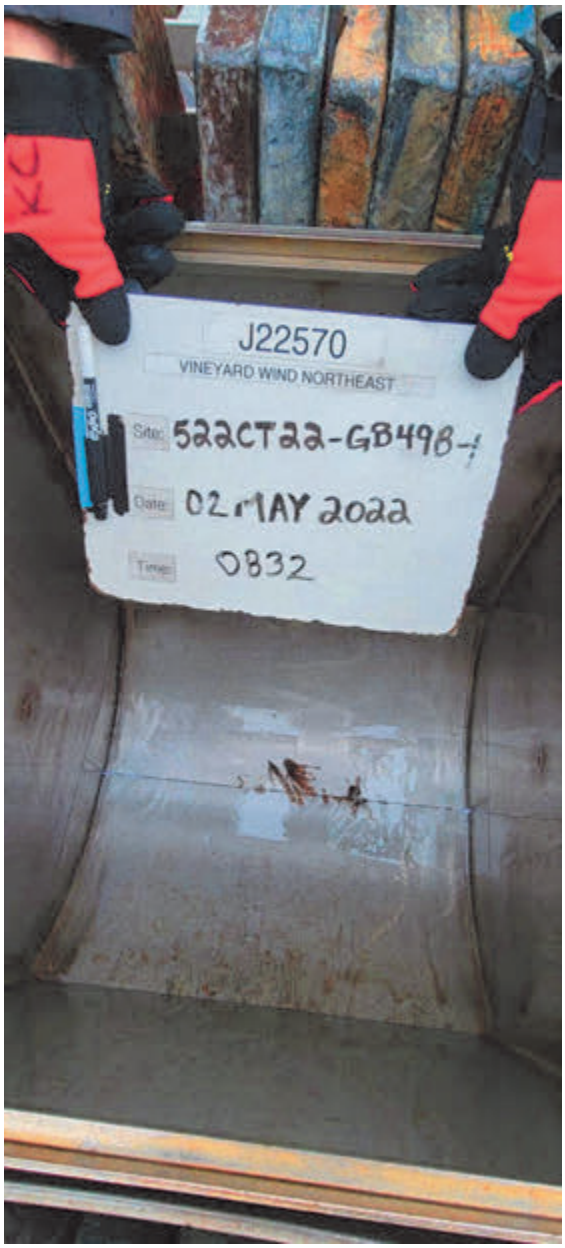

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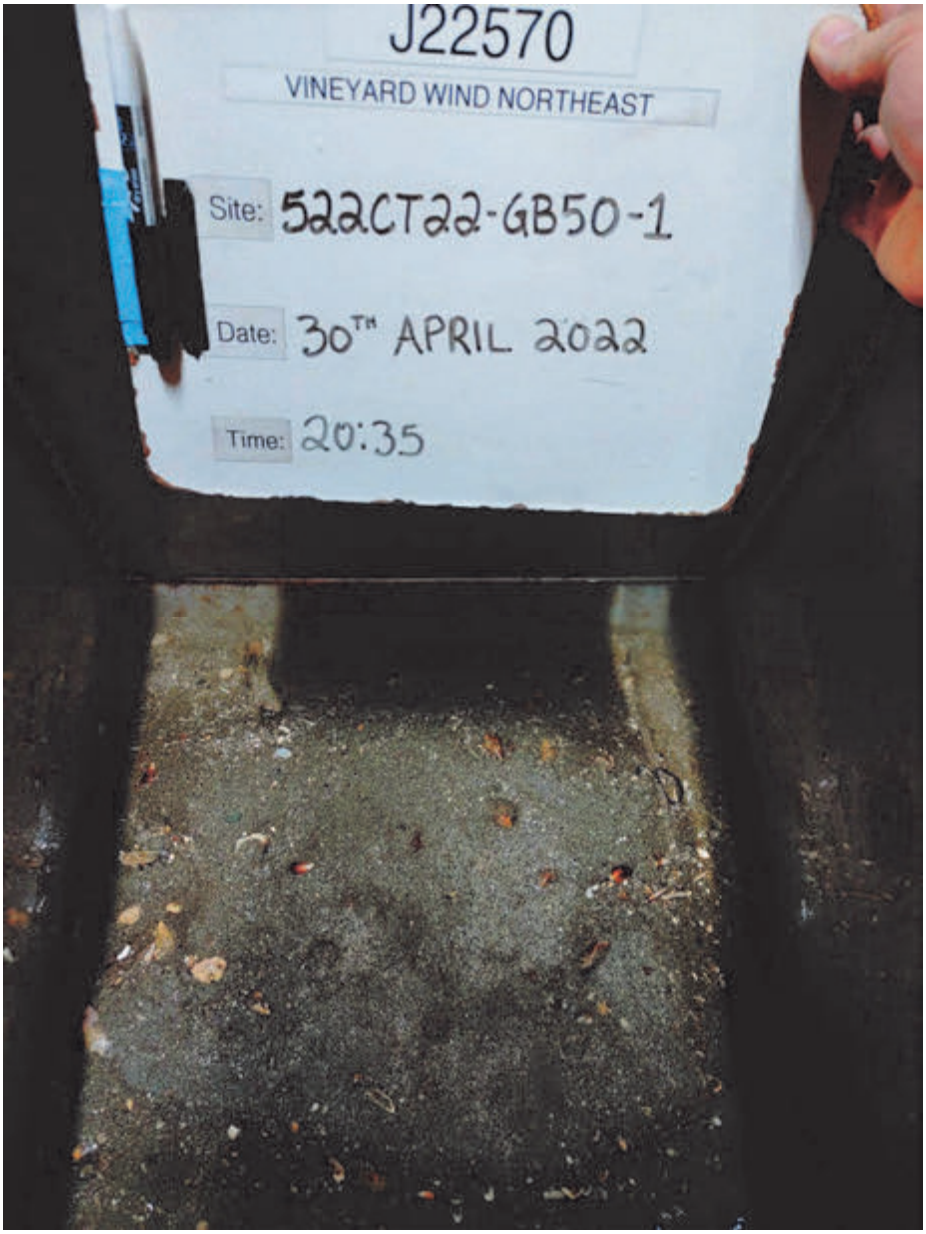

PHOTO INFORMATION

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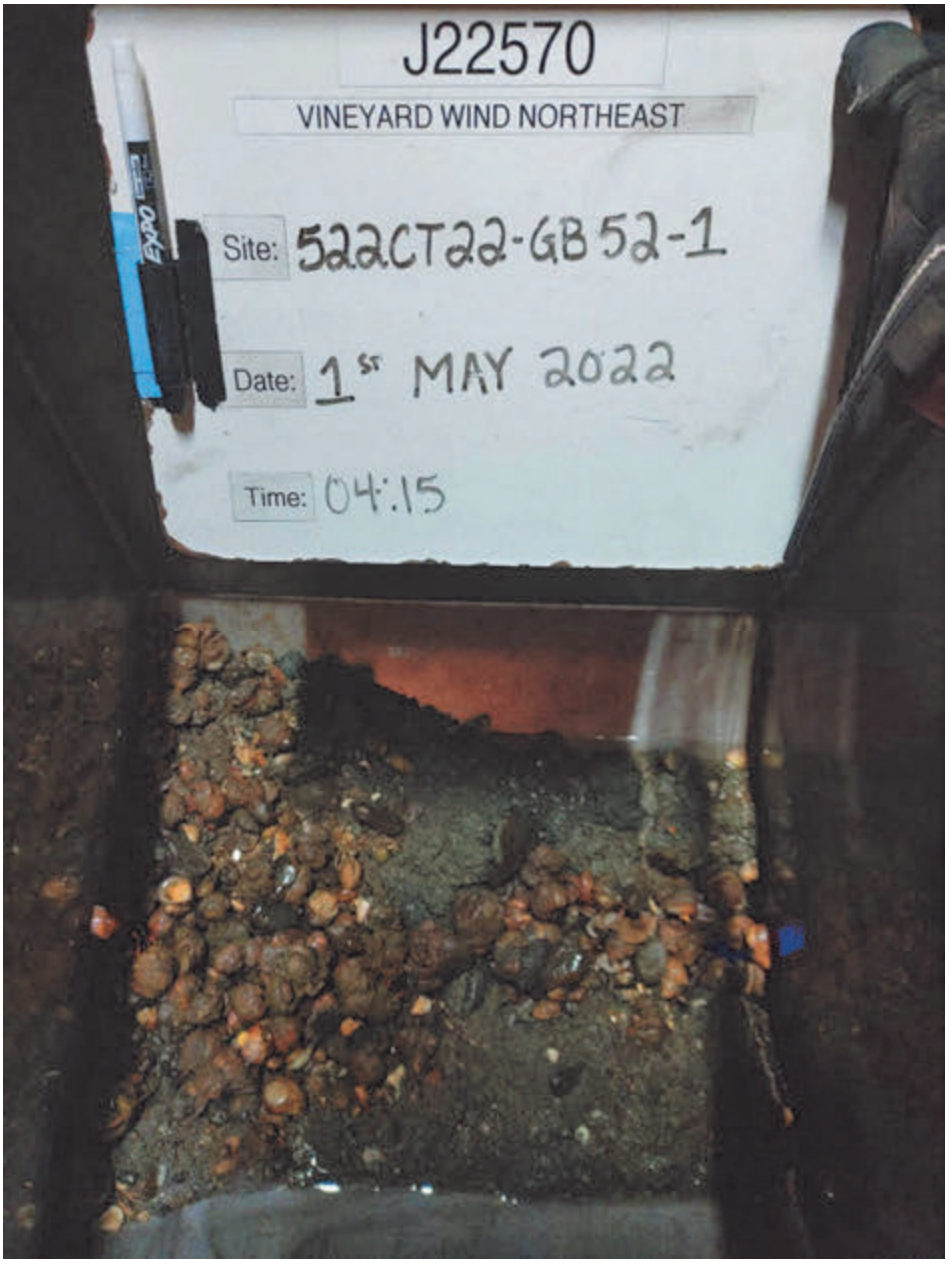

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Sample ID 522CT22-GB052-2

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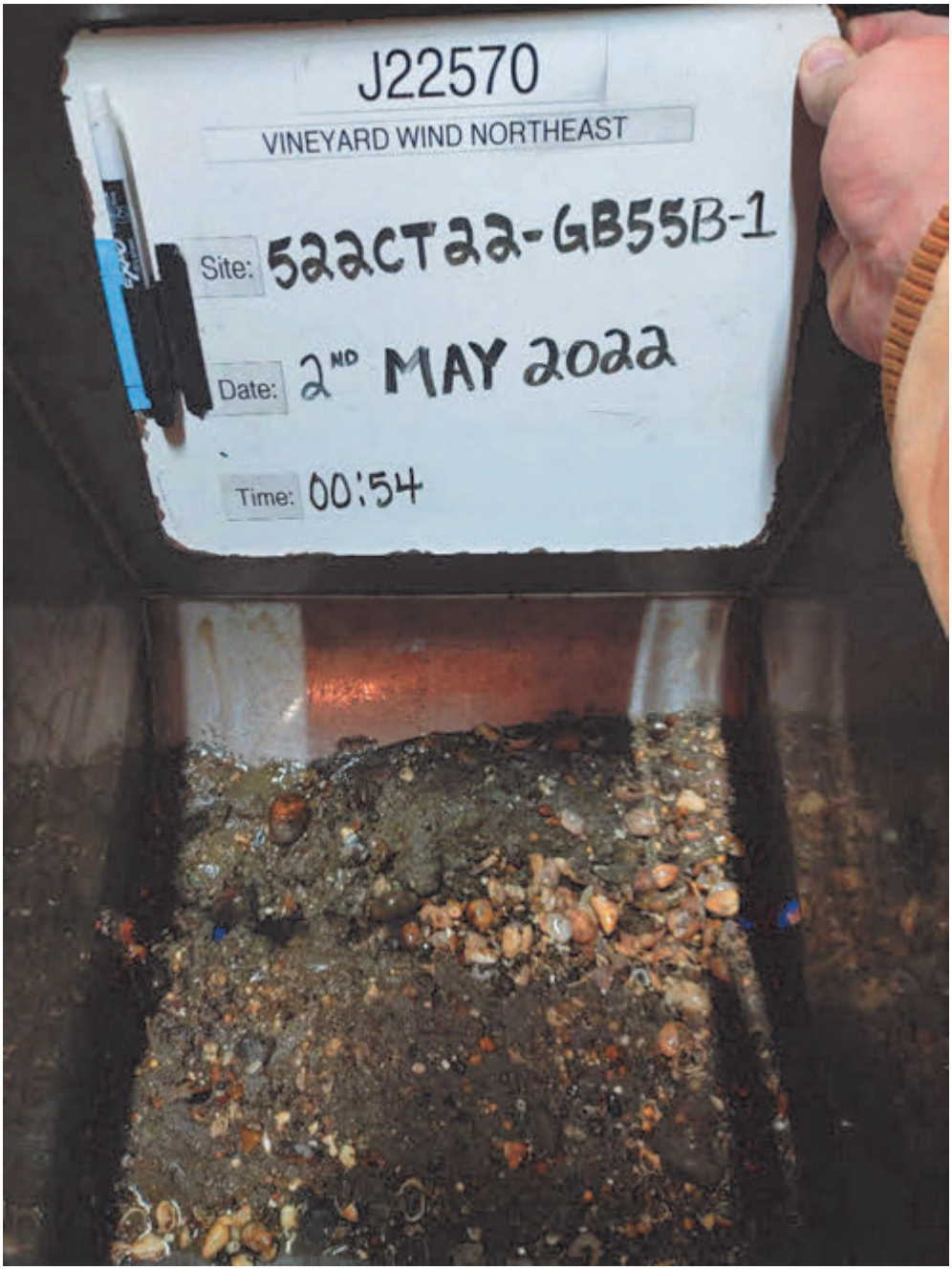

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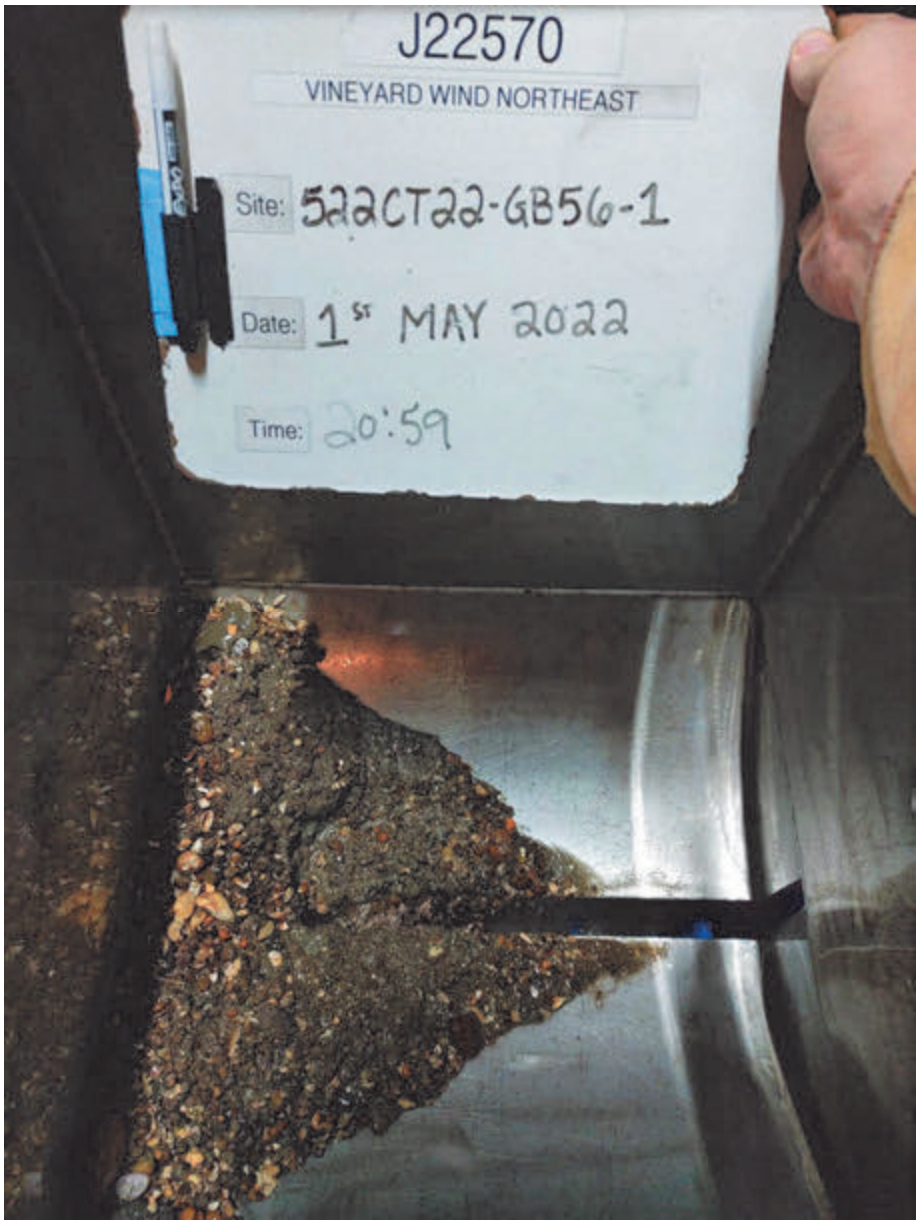

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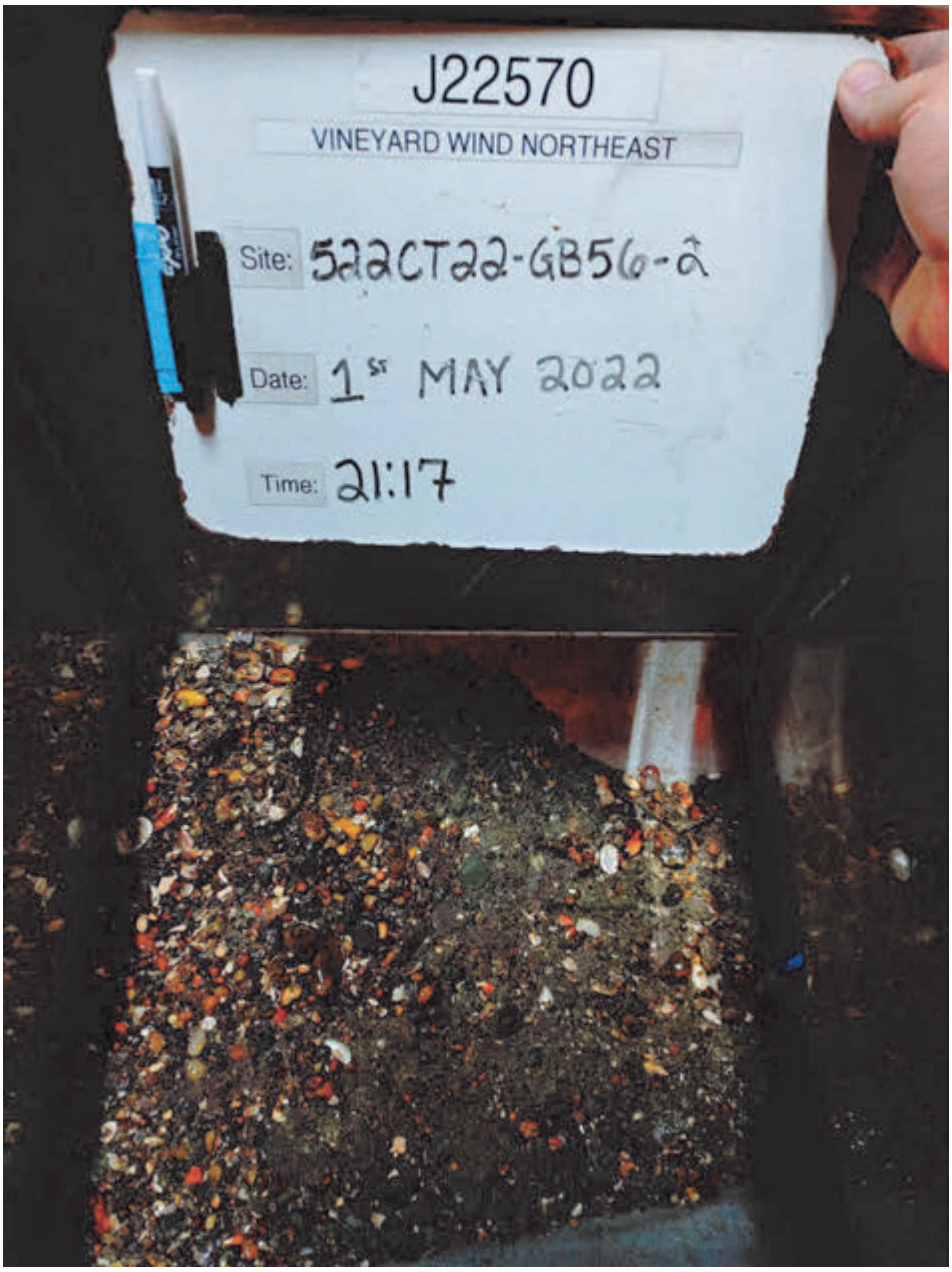

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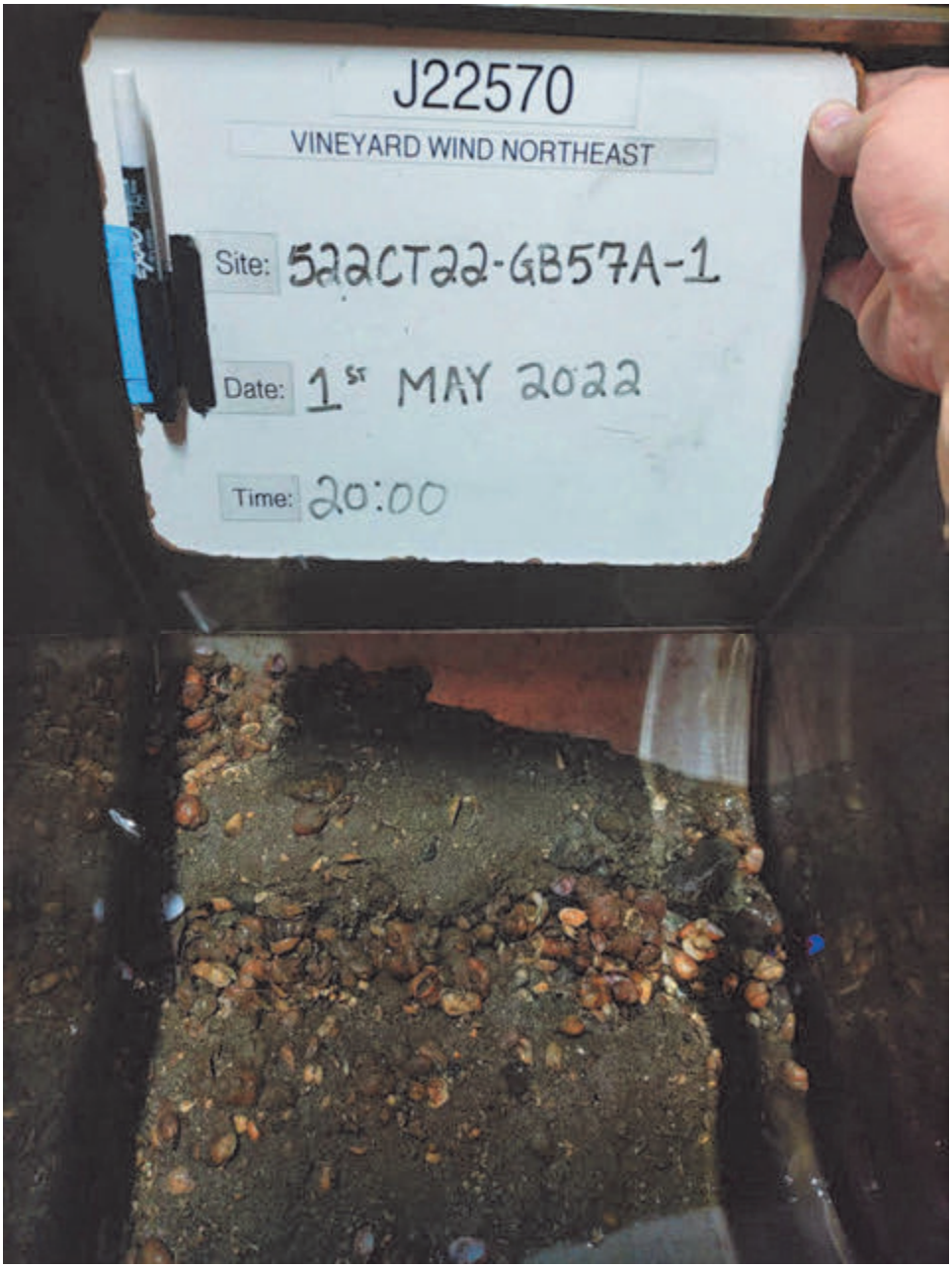

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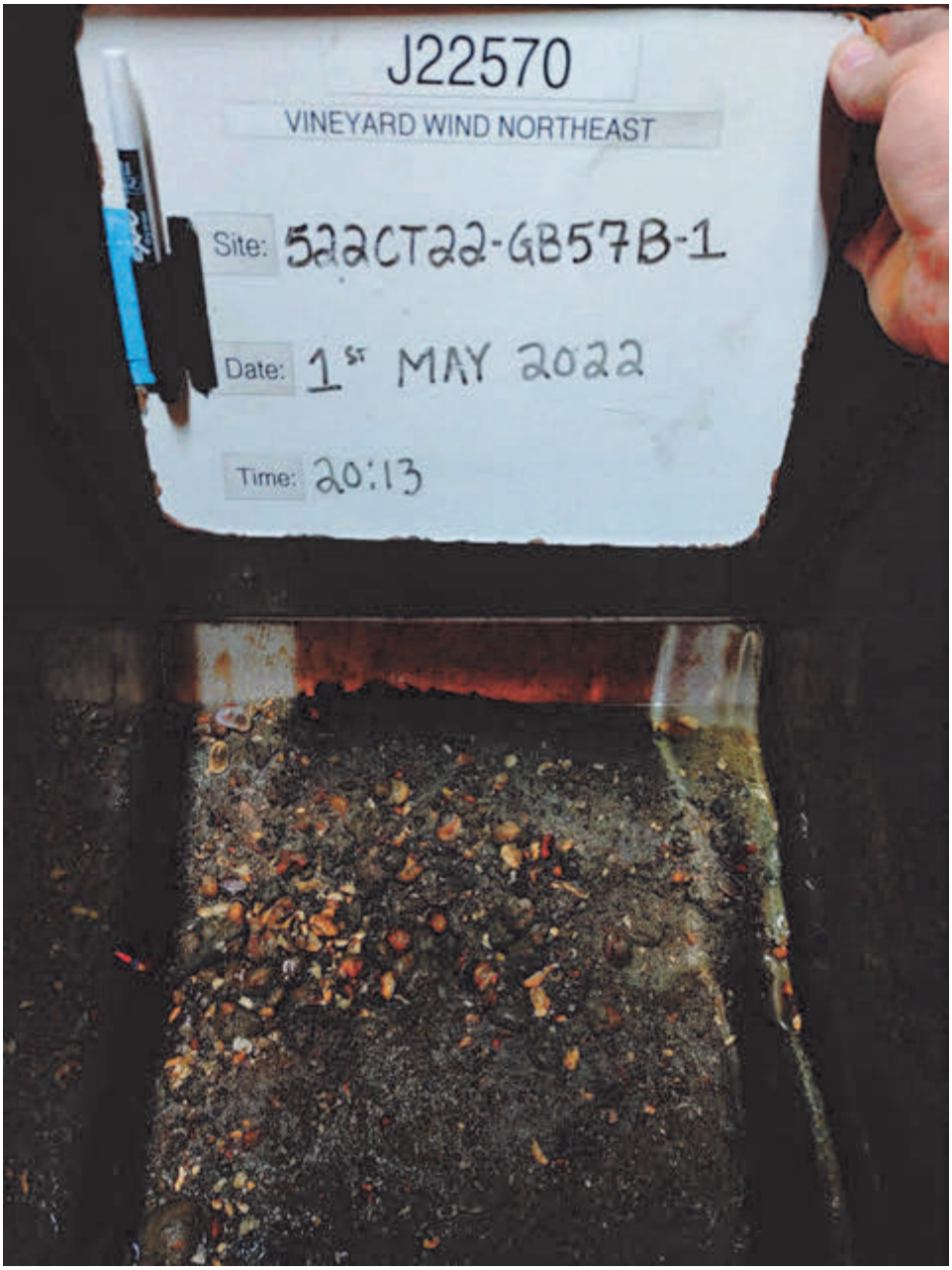

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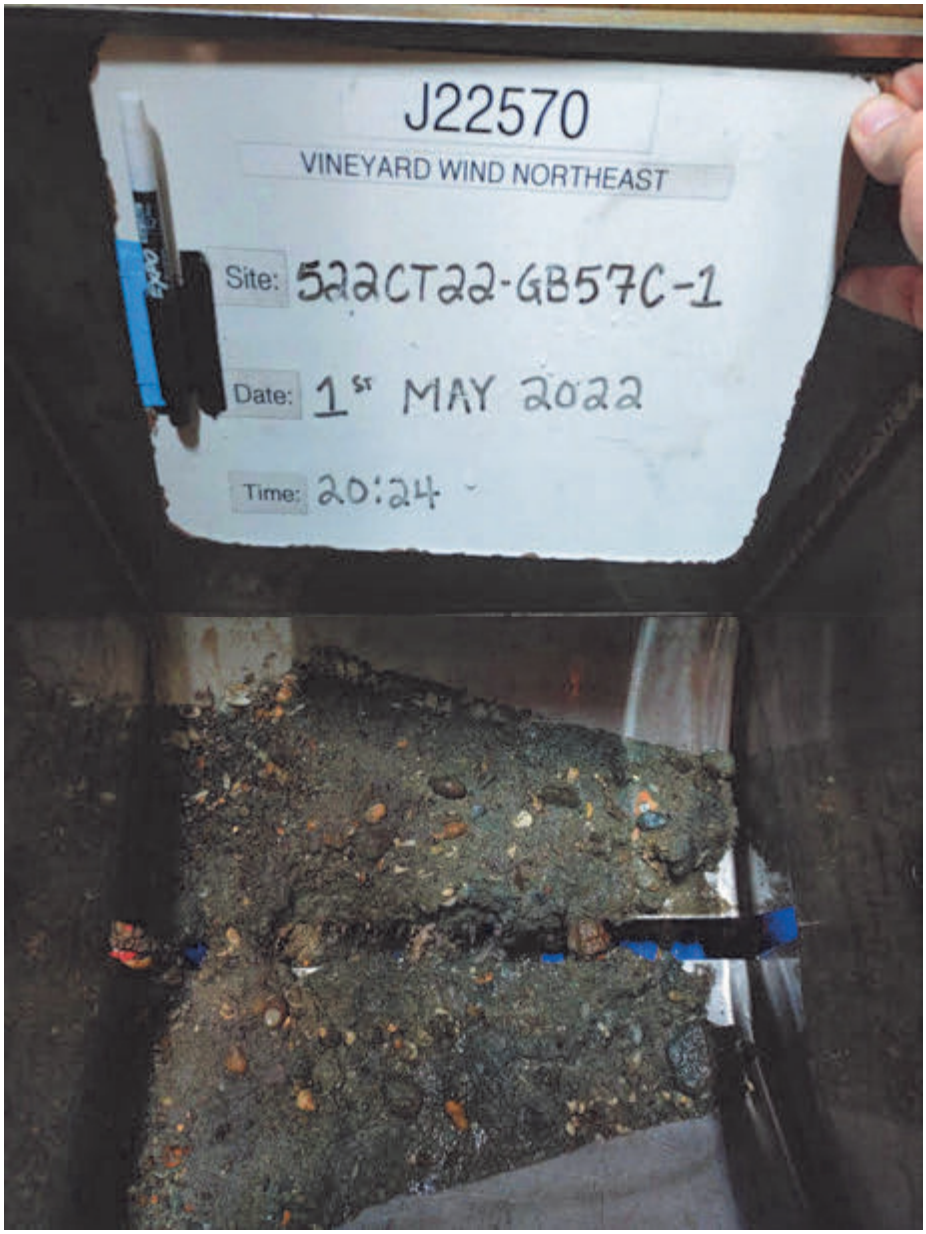

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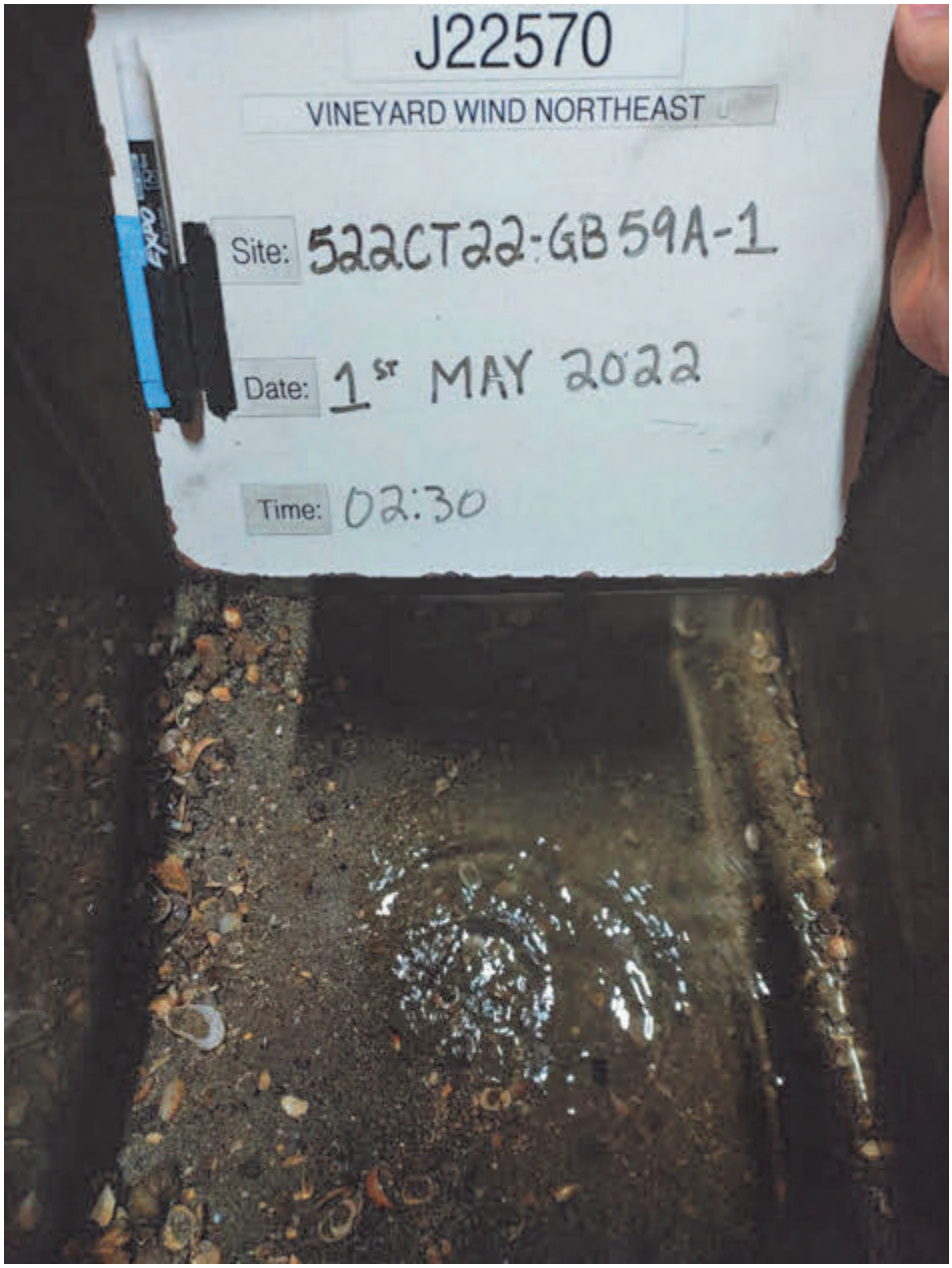

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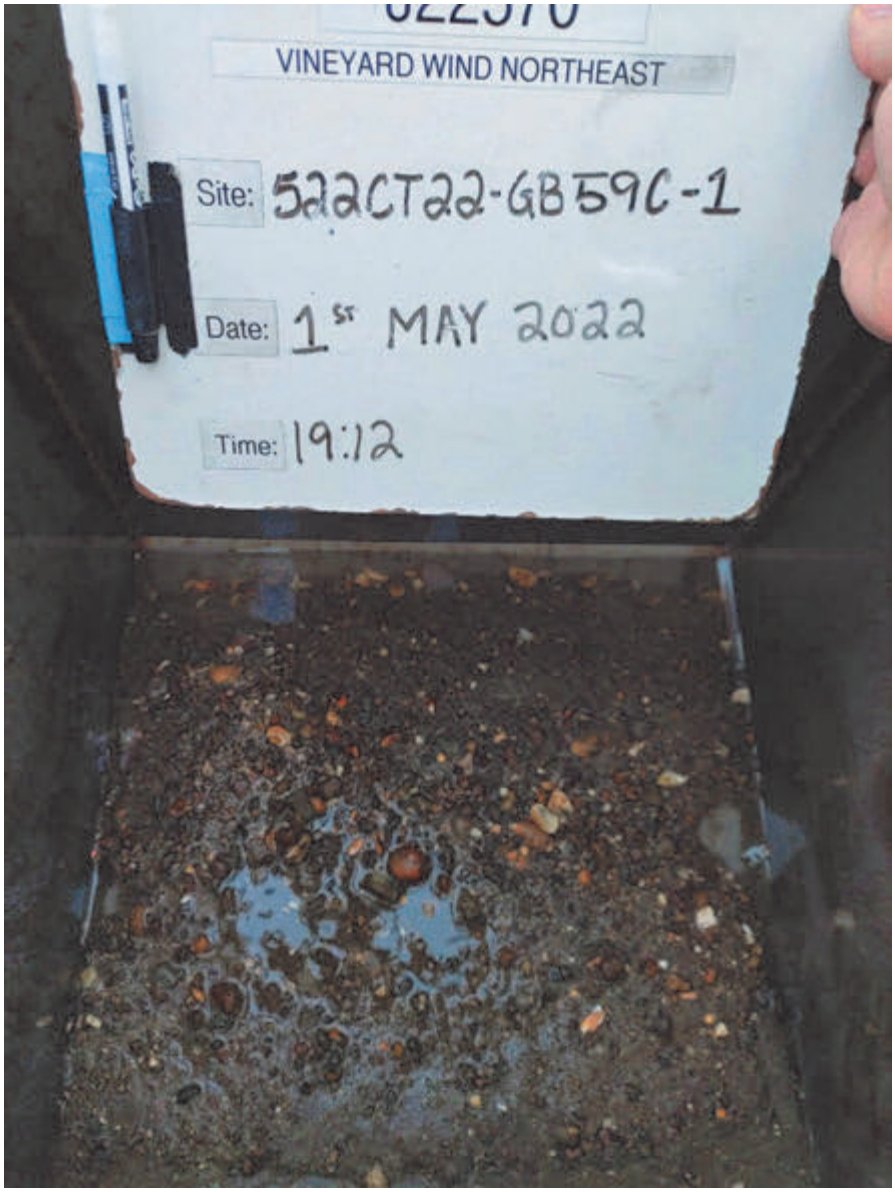

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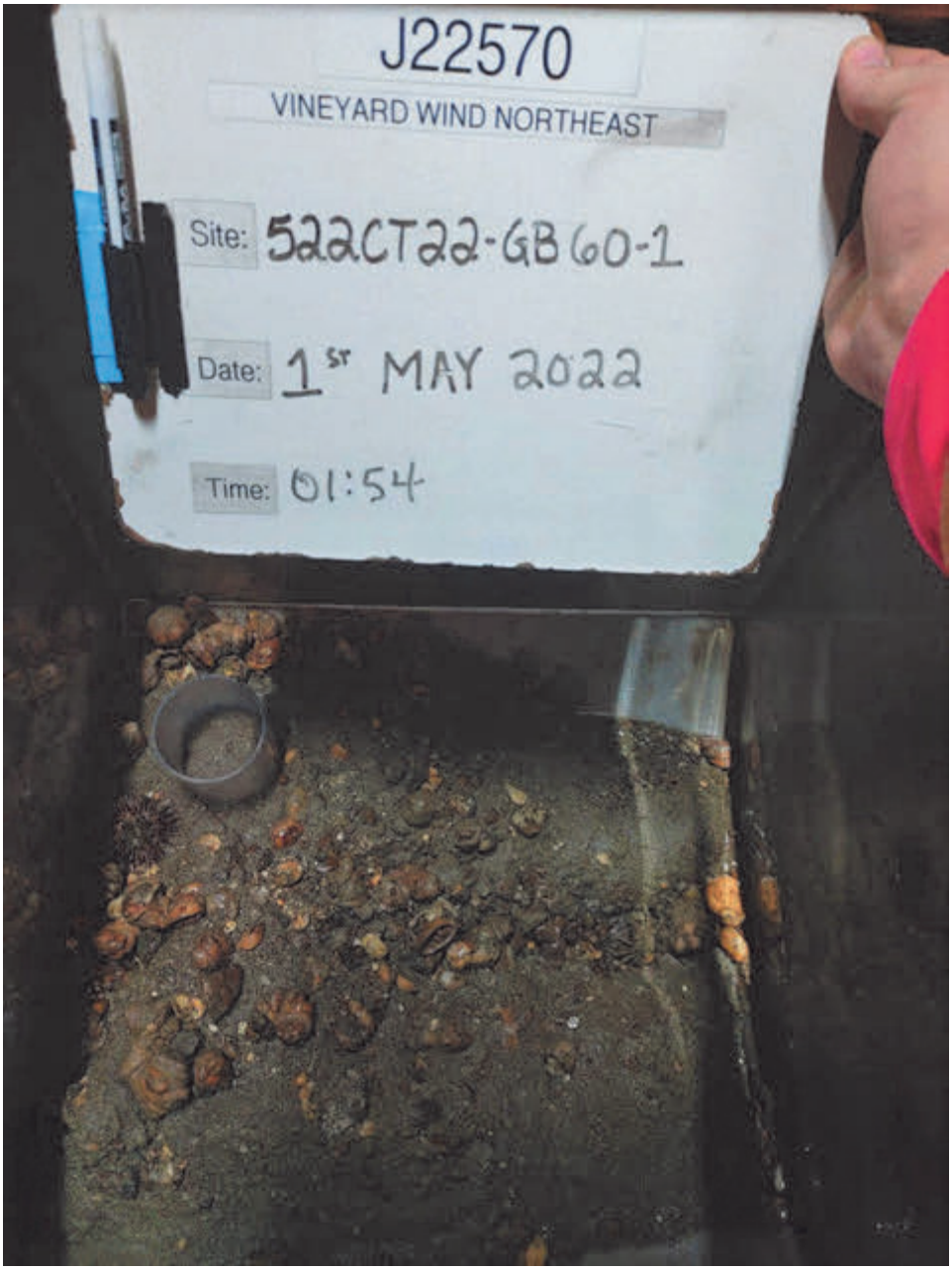

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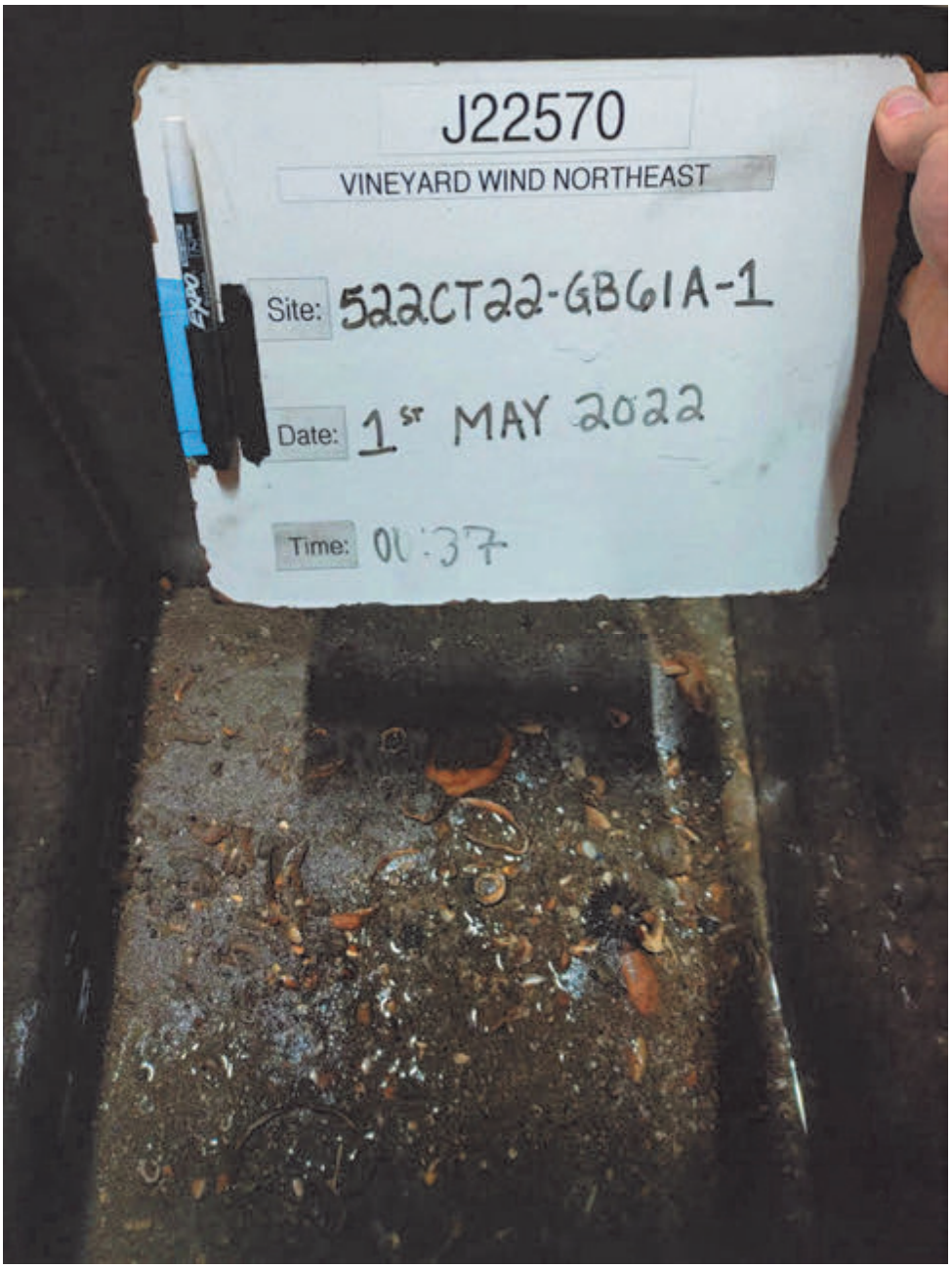

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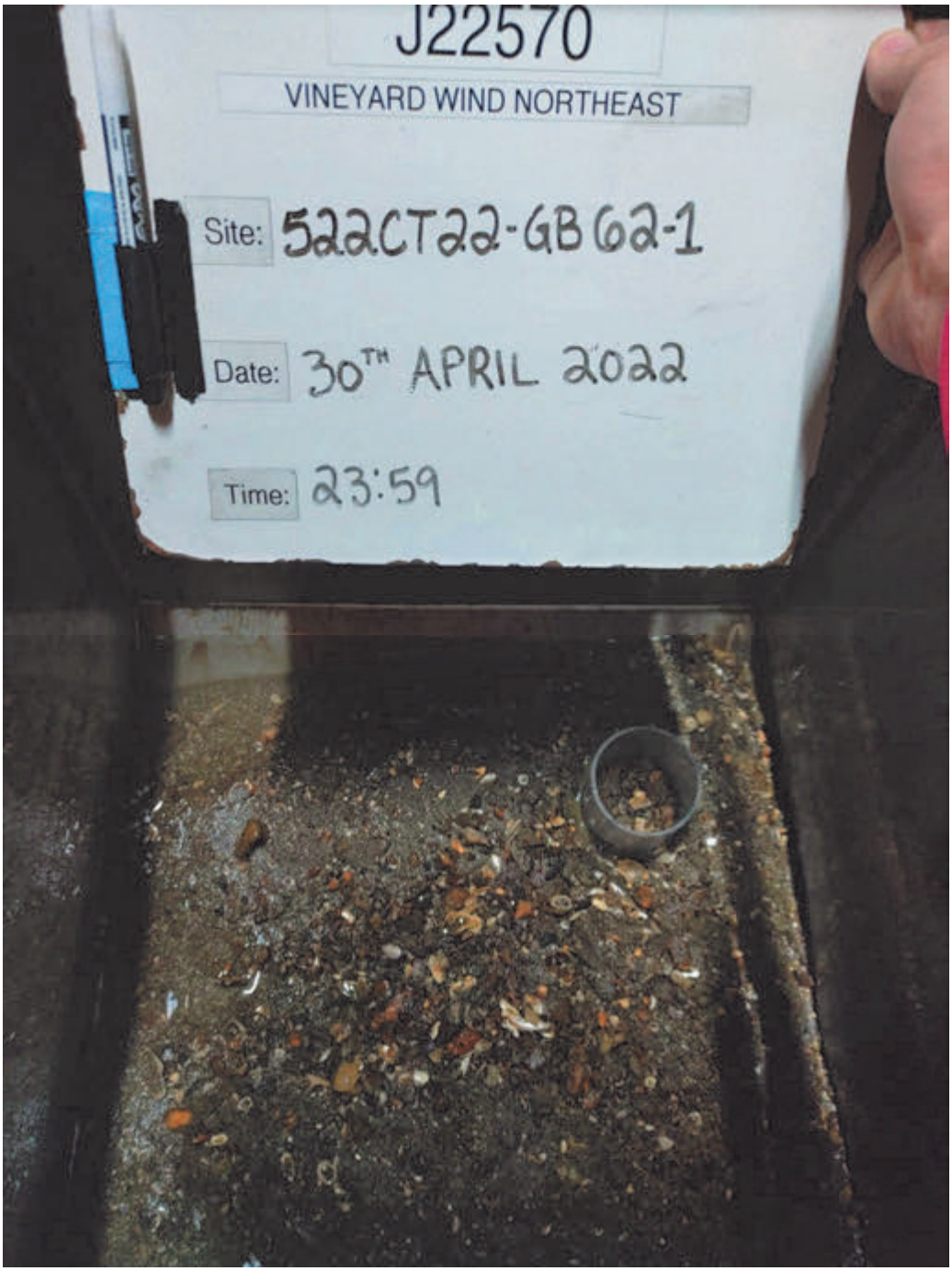

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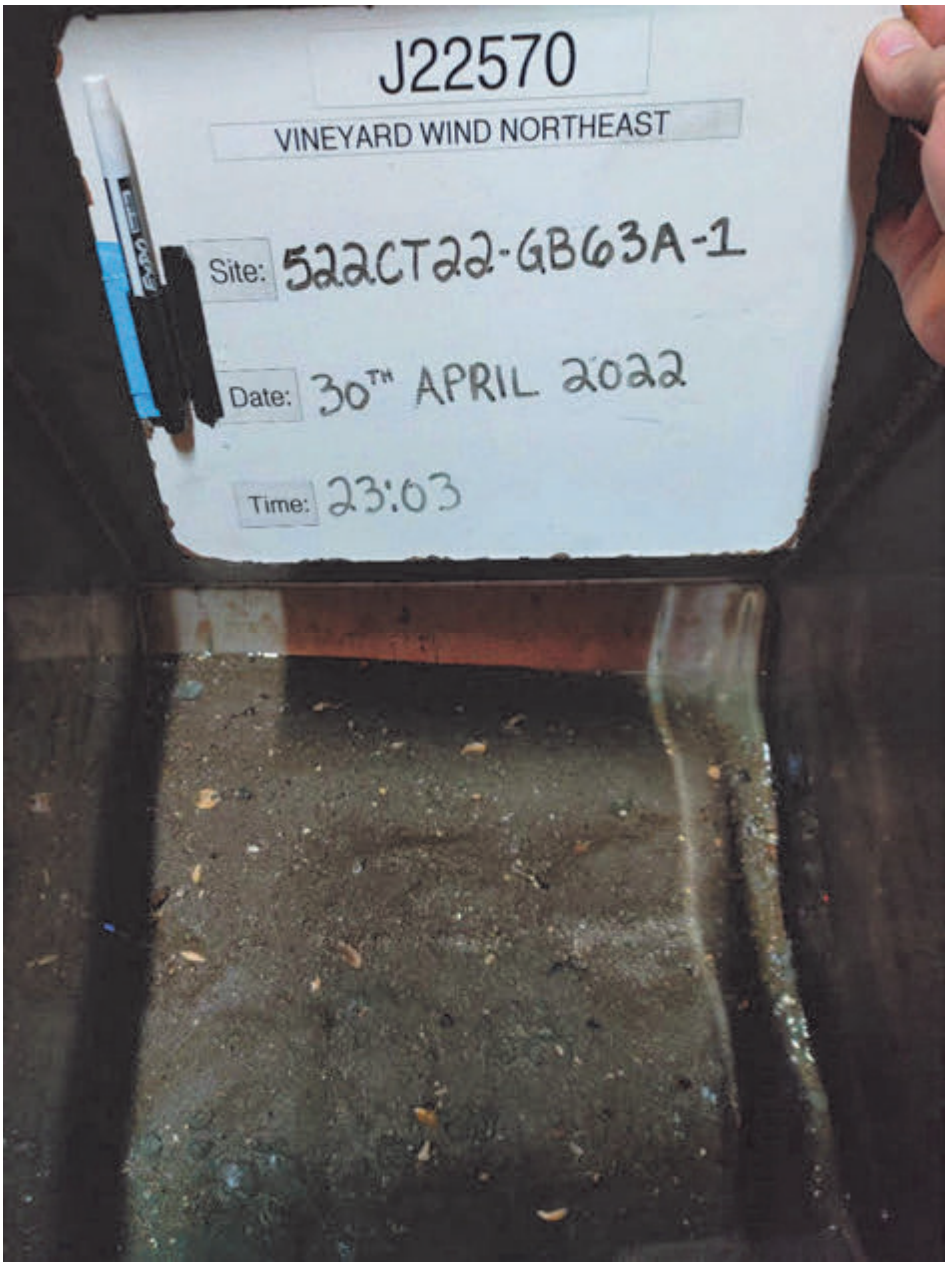

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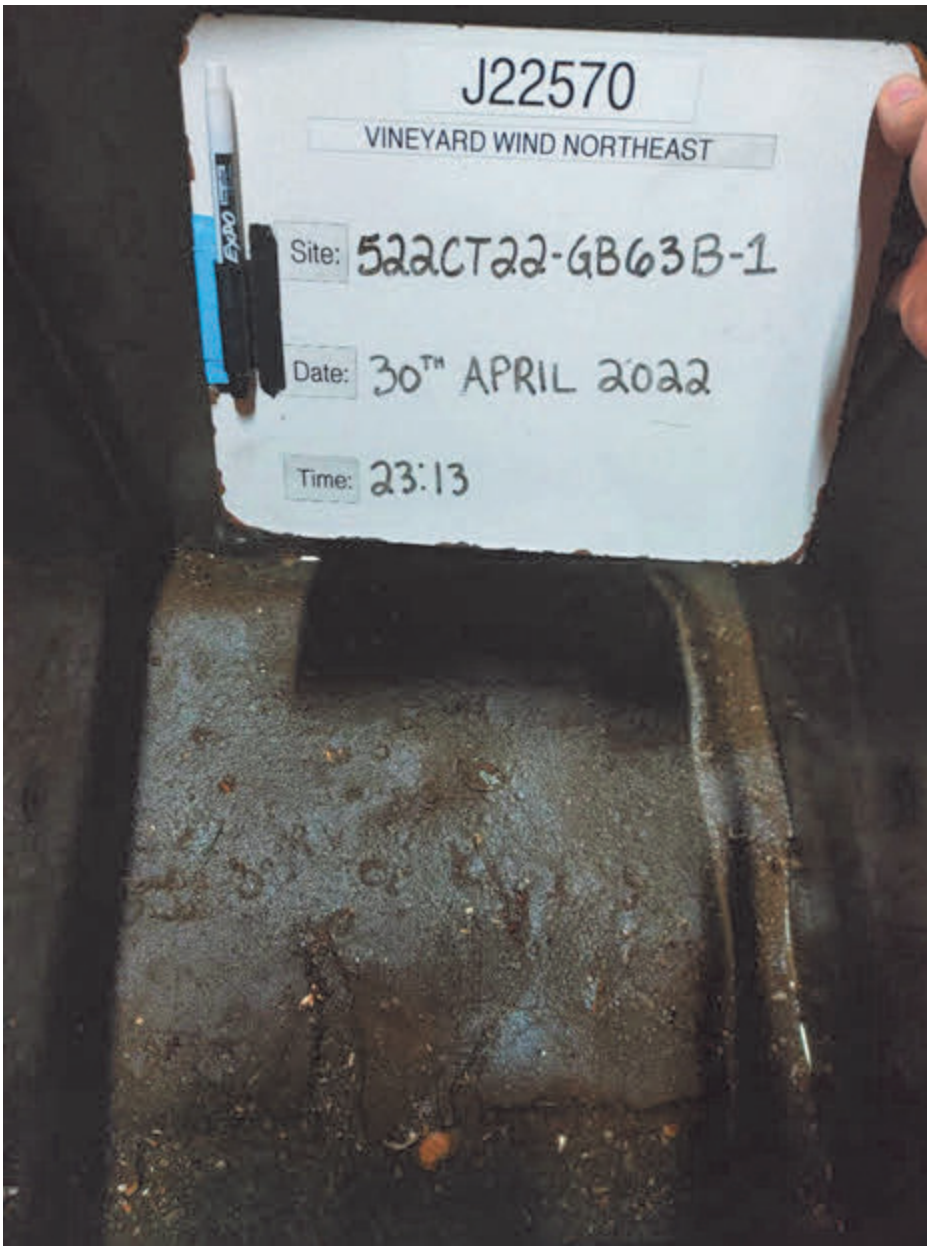

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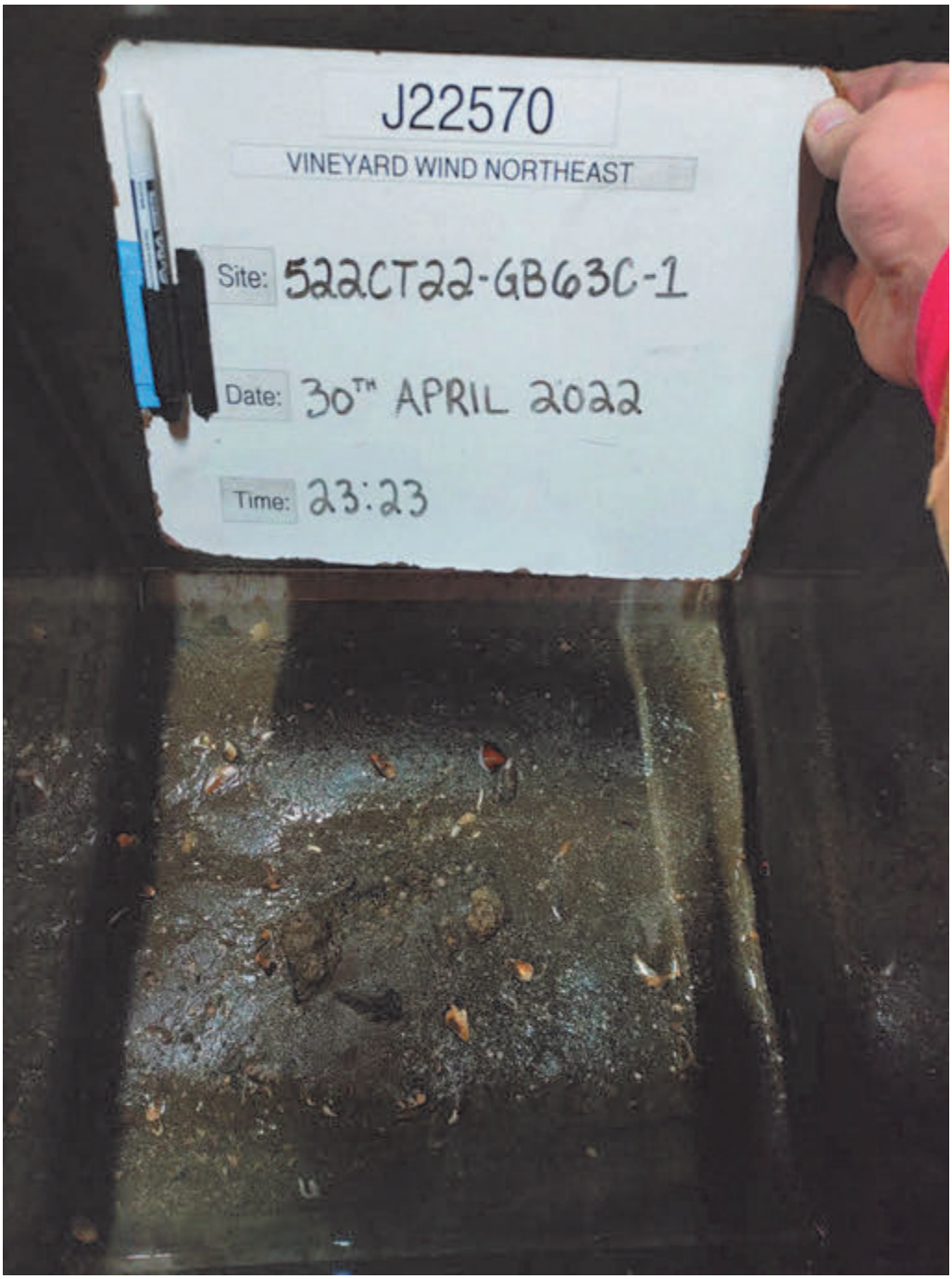

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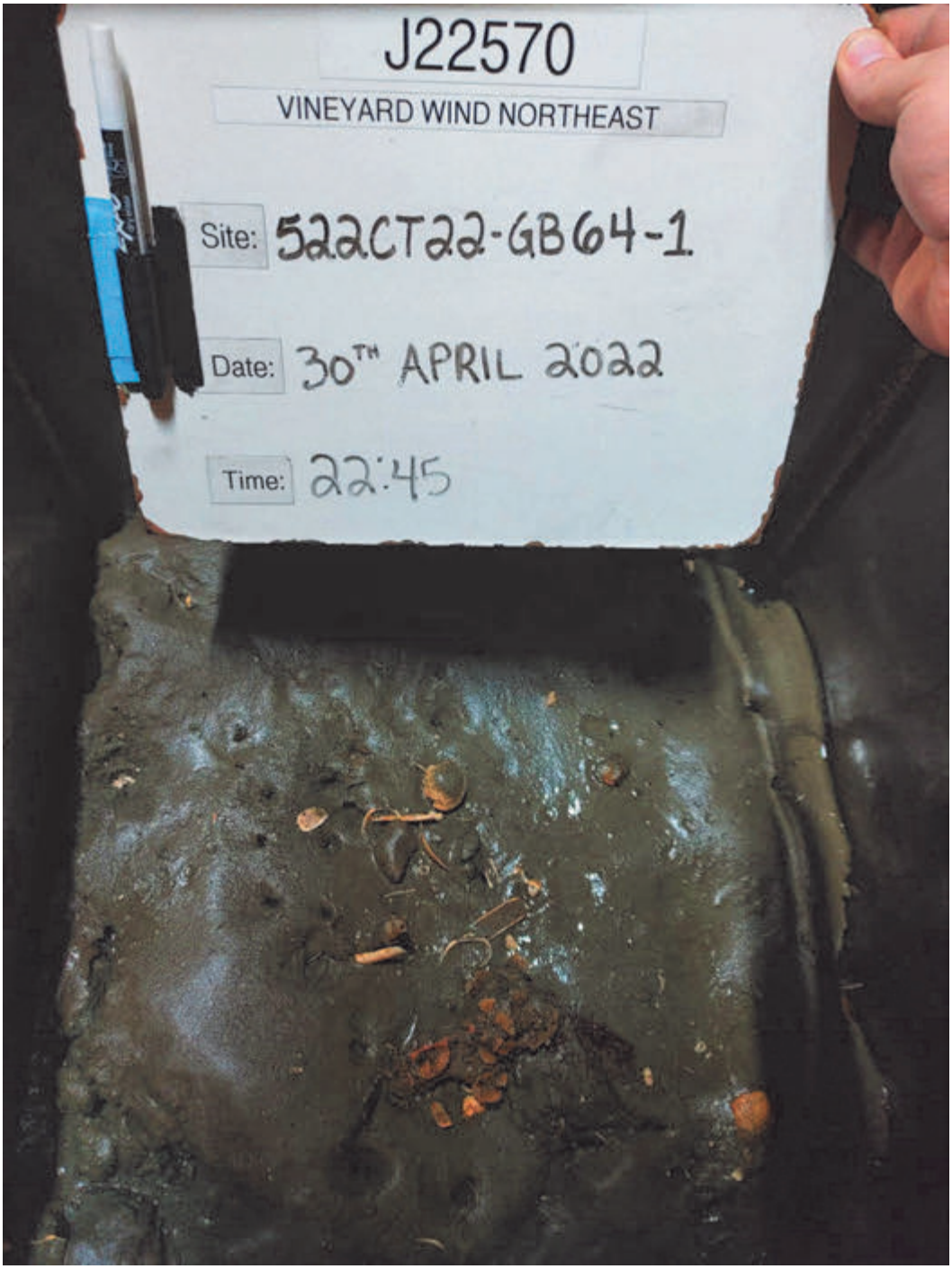

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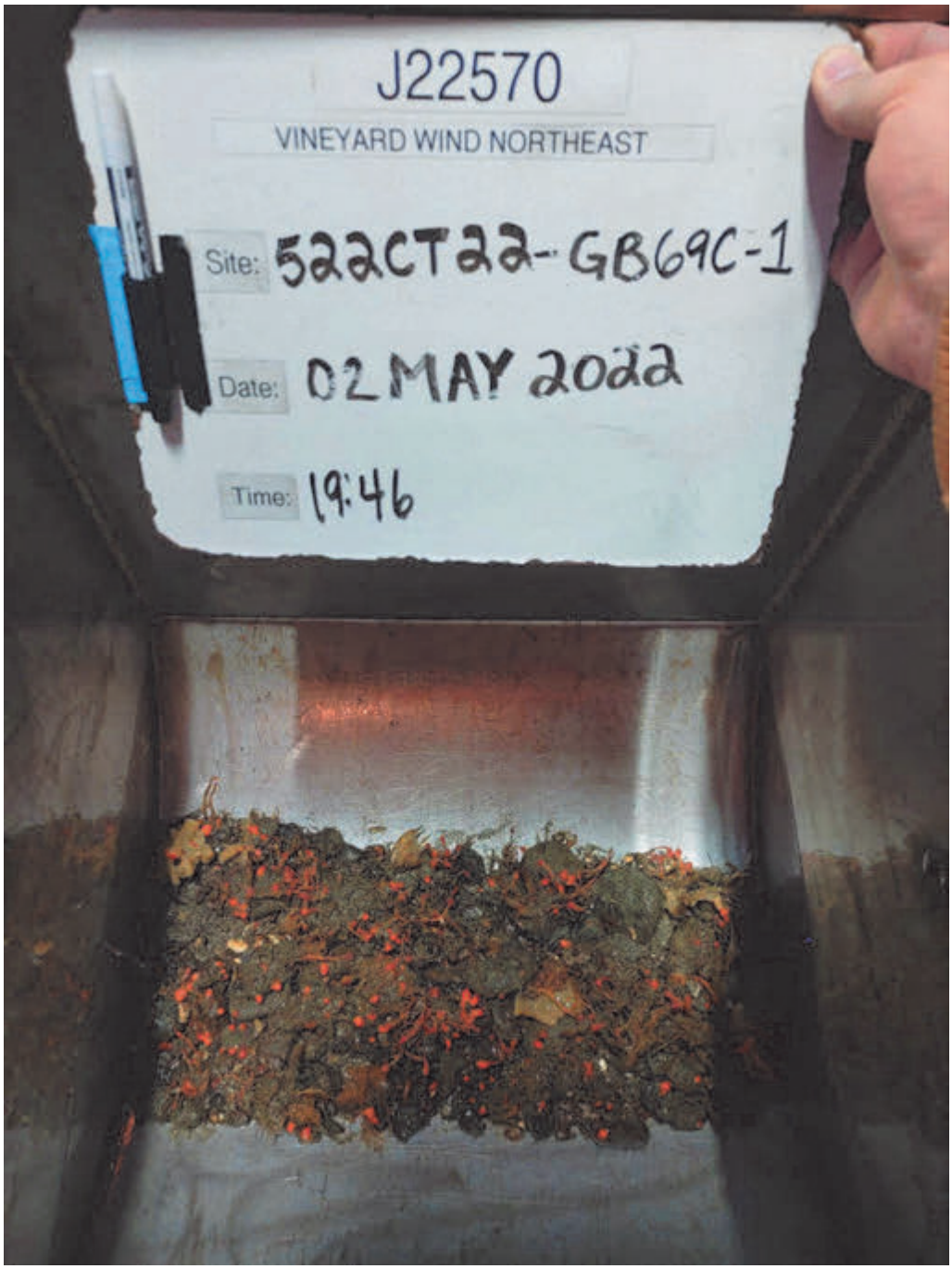

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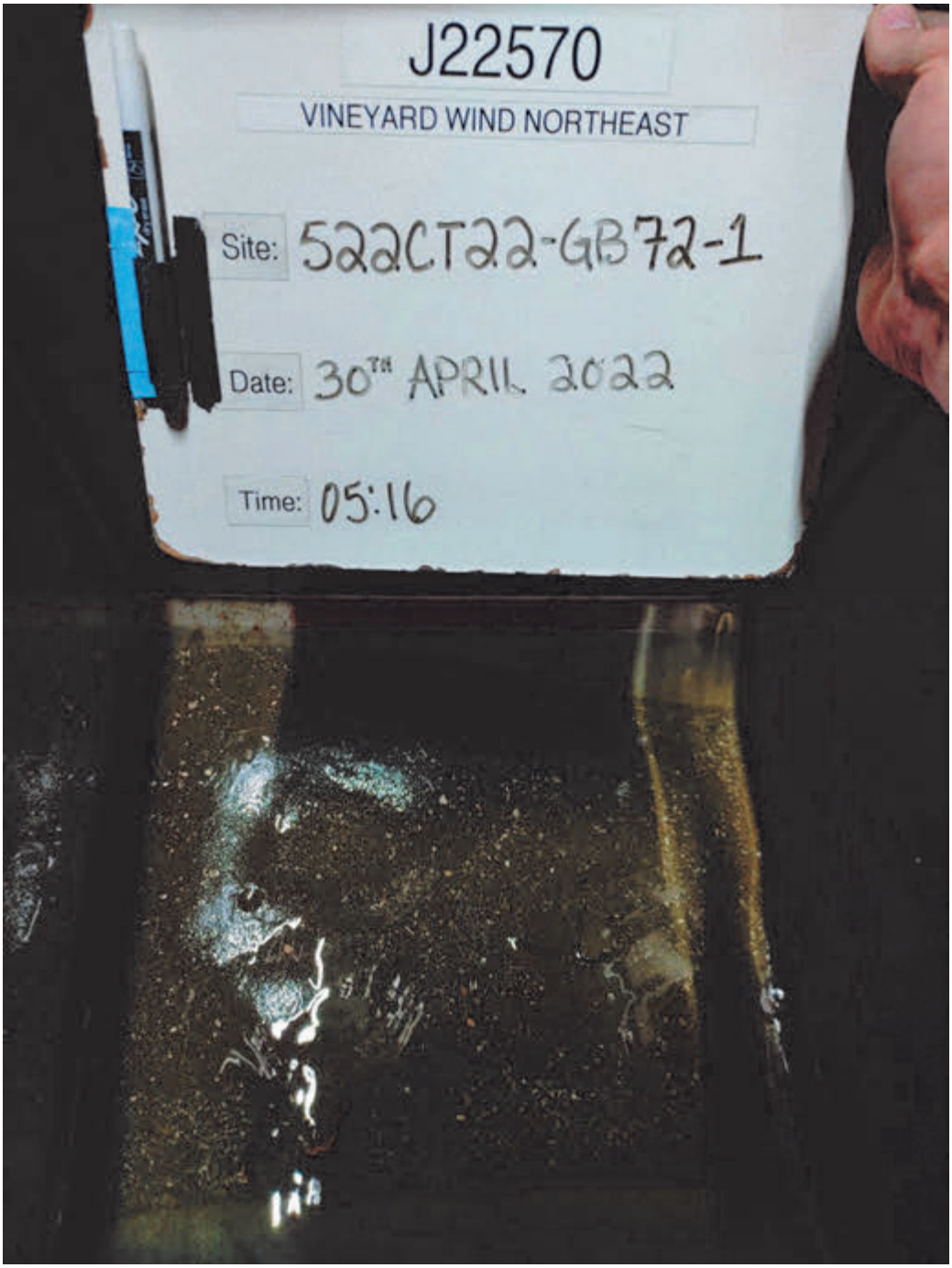

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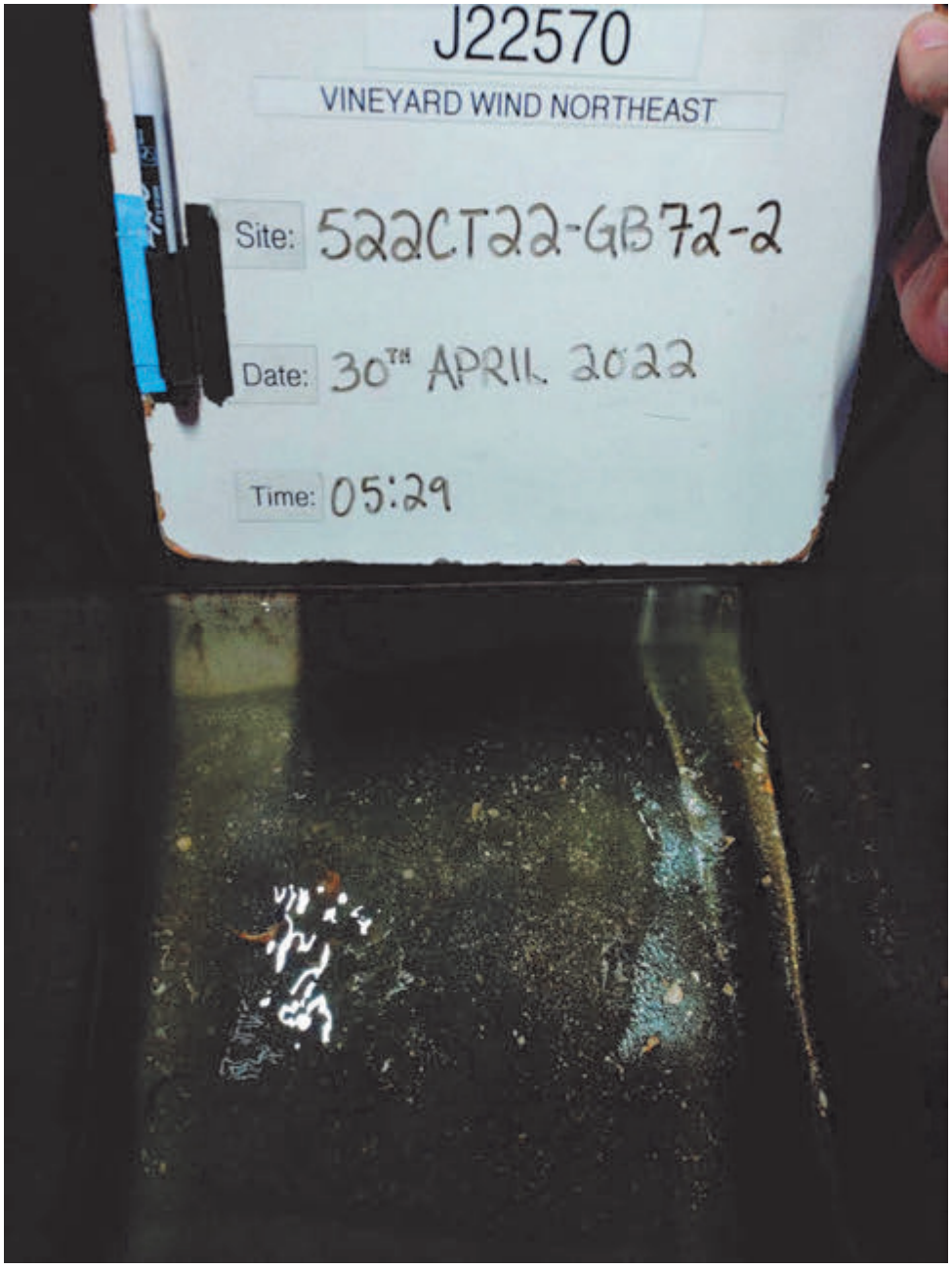

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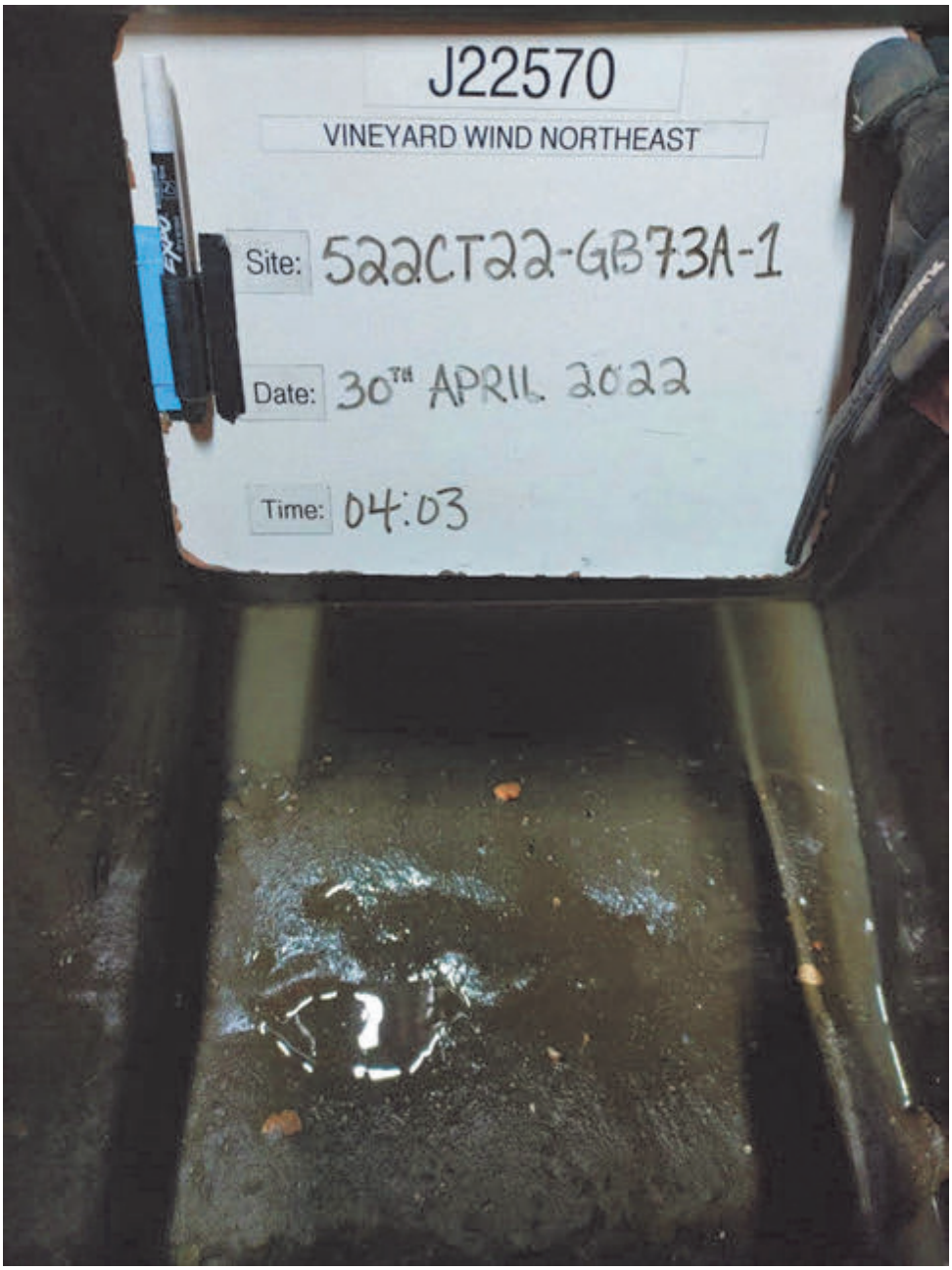

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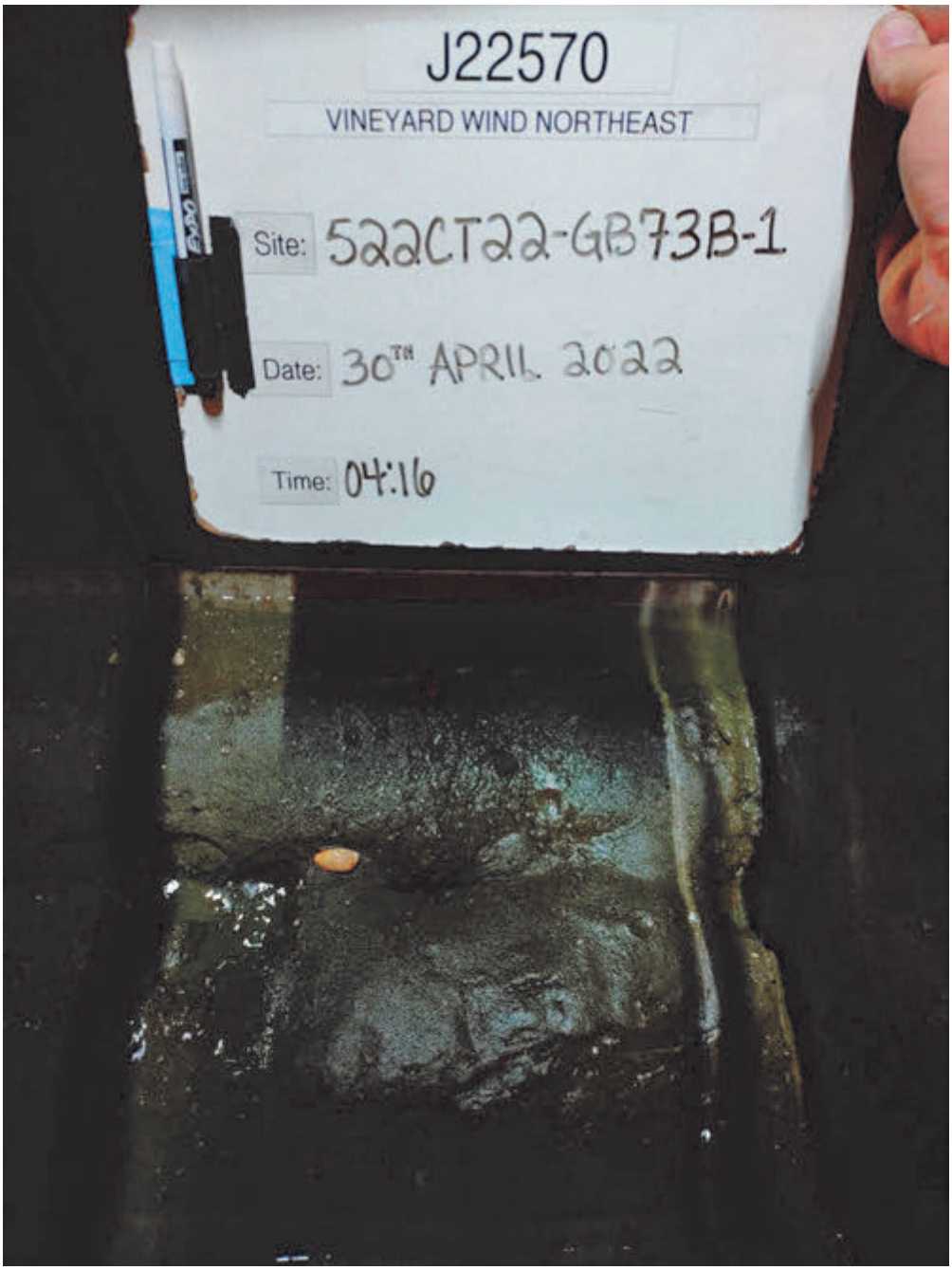

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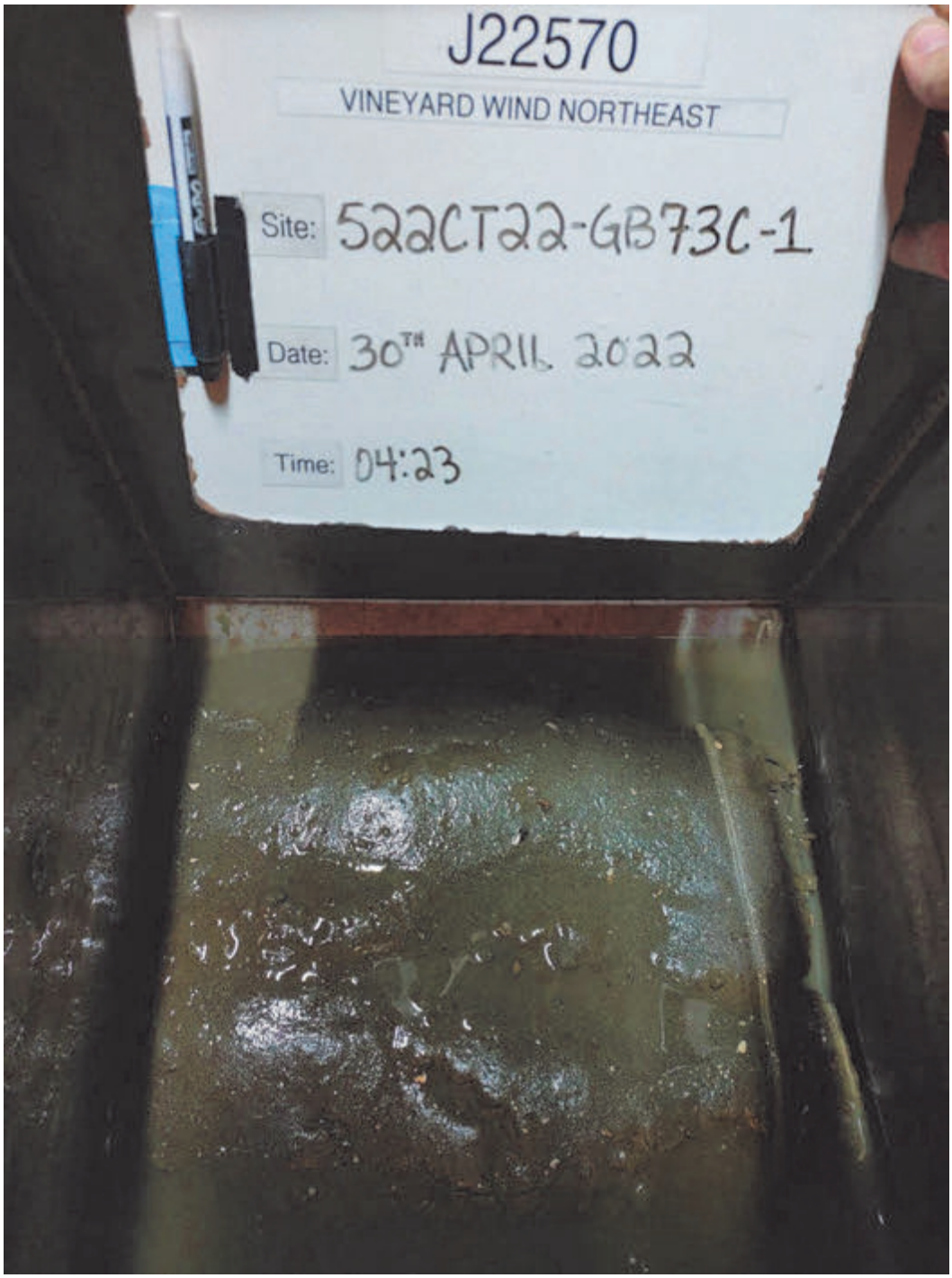

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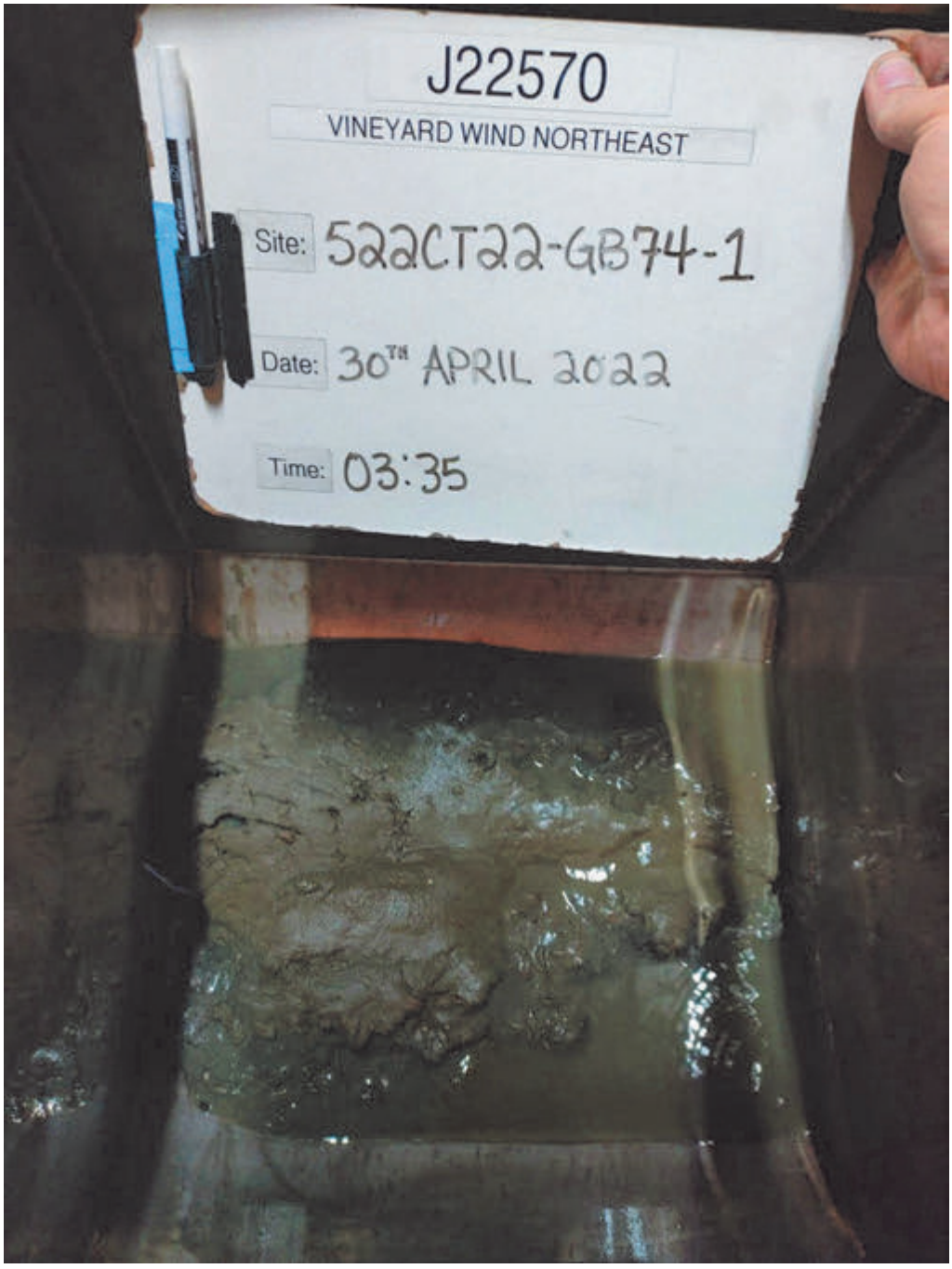

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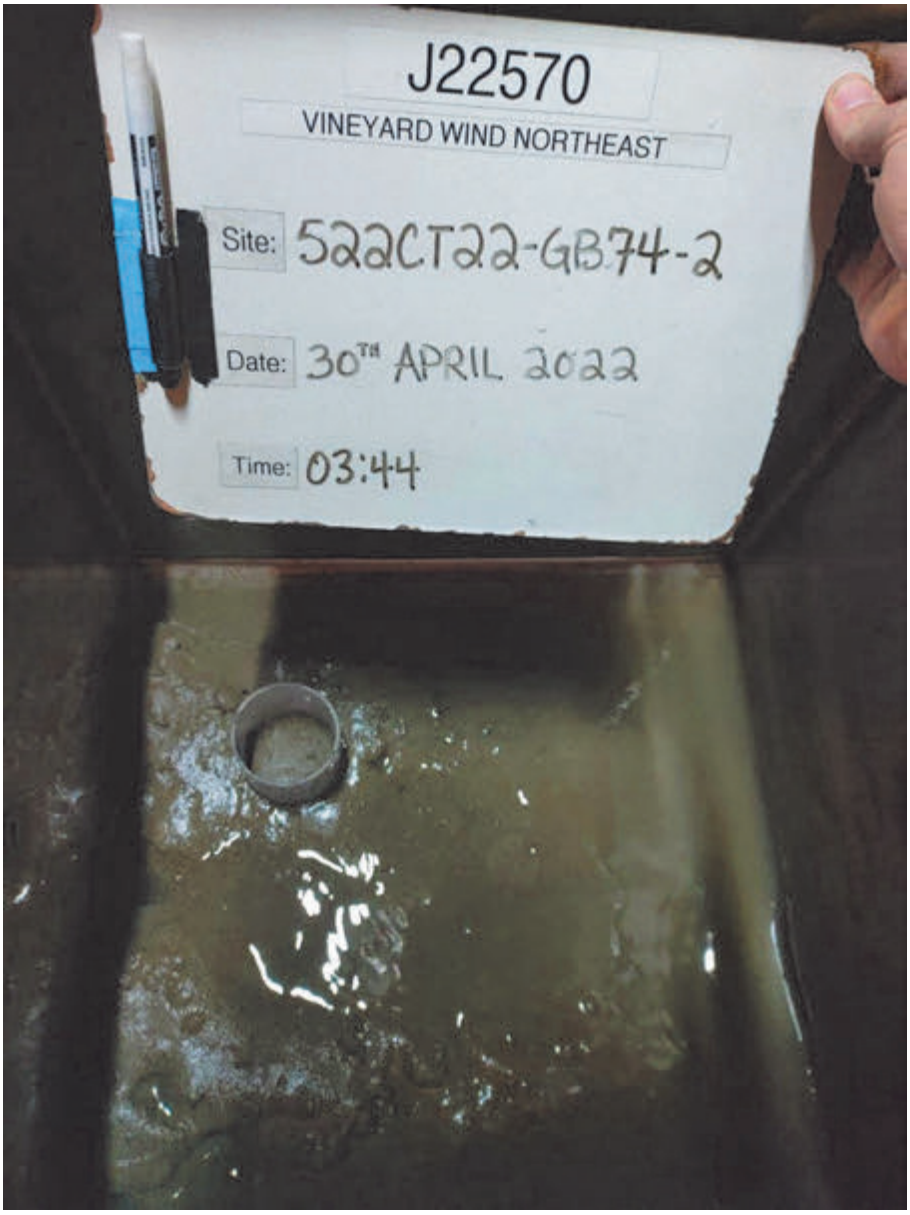

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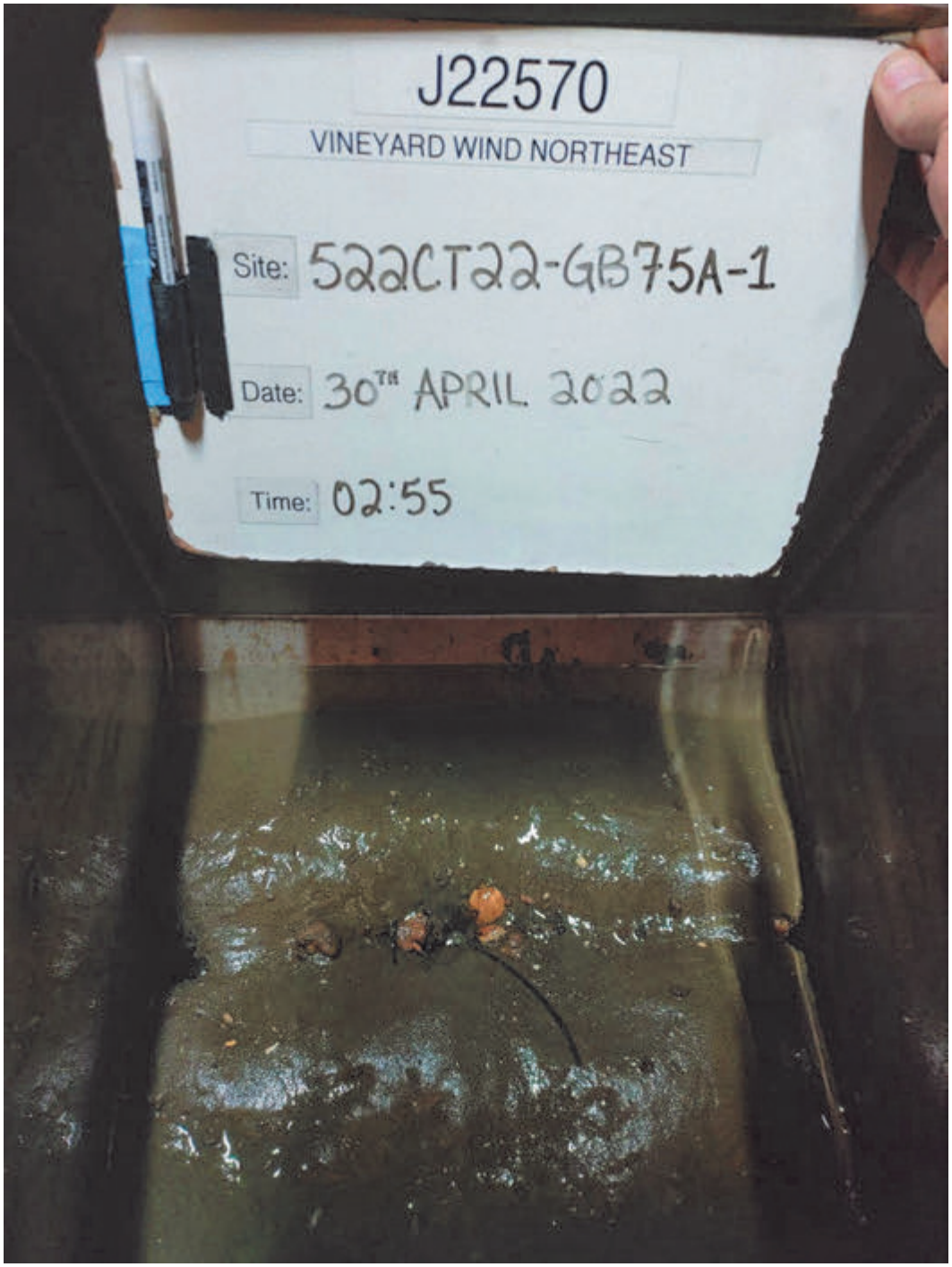

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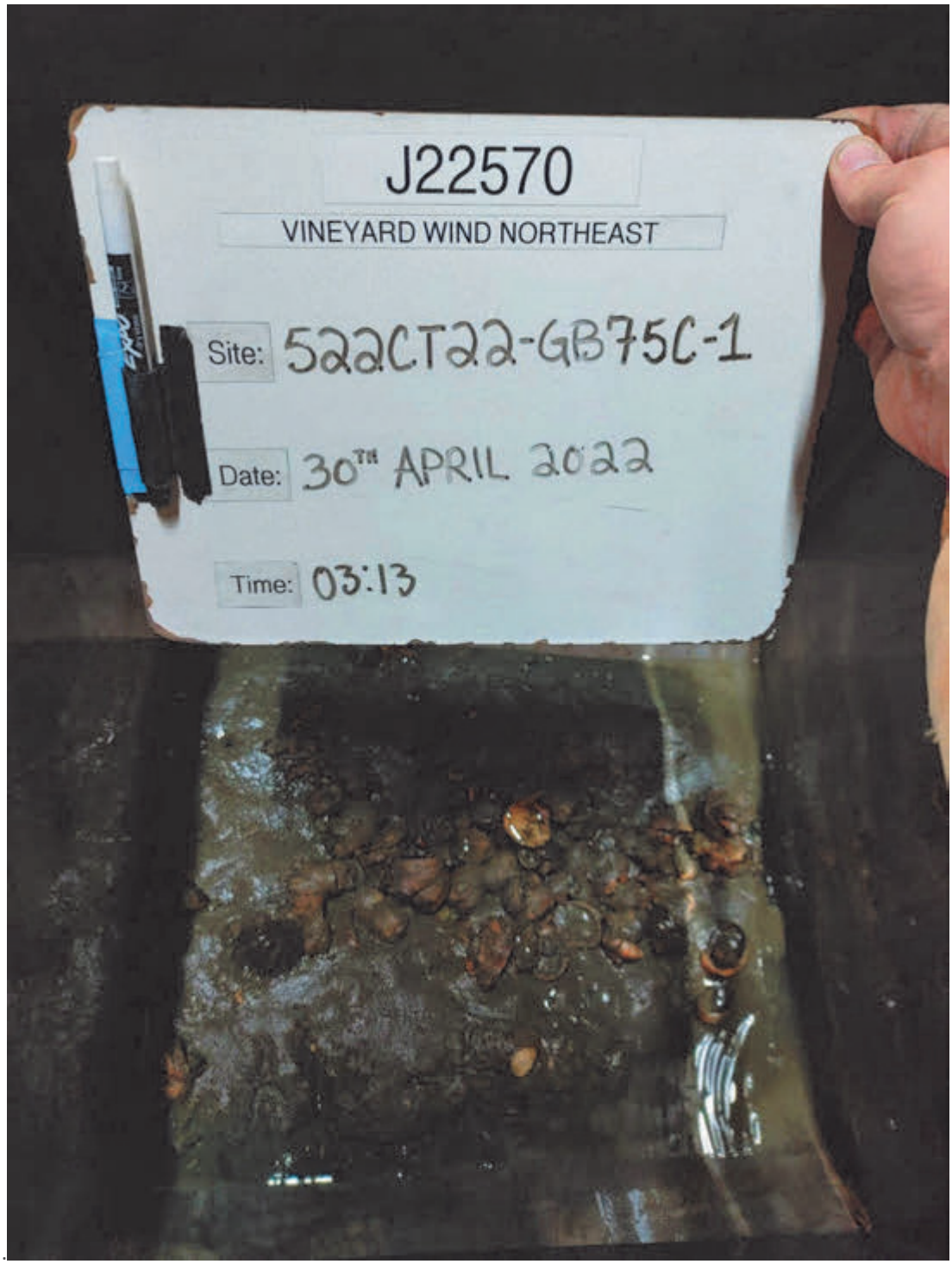

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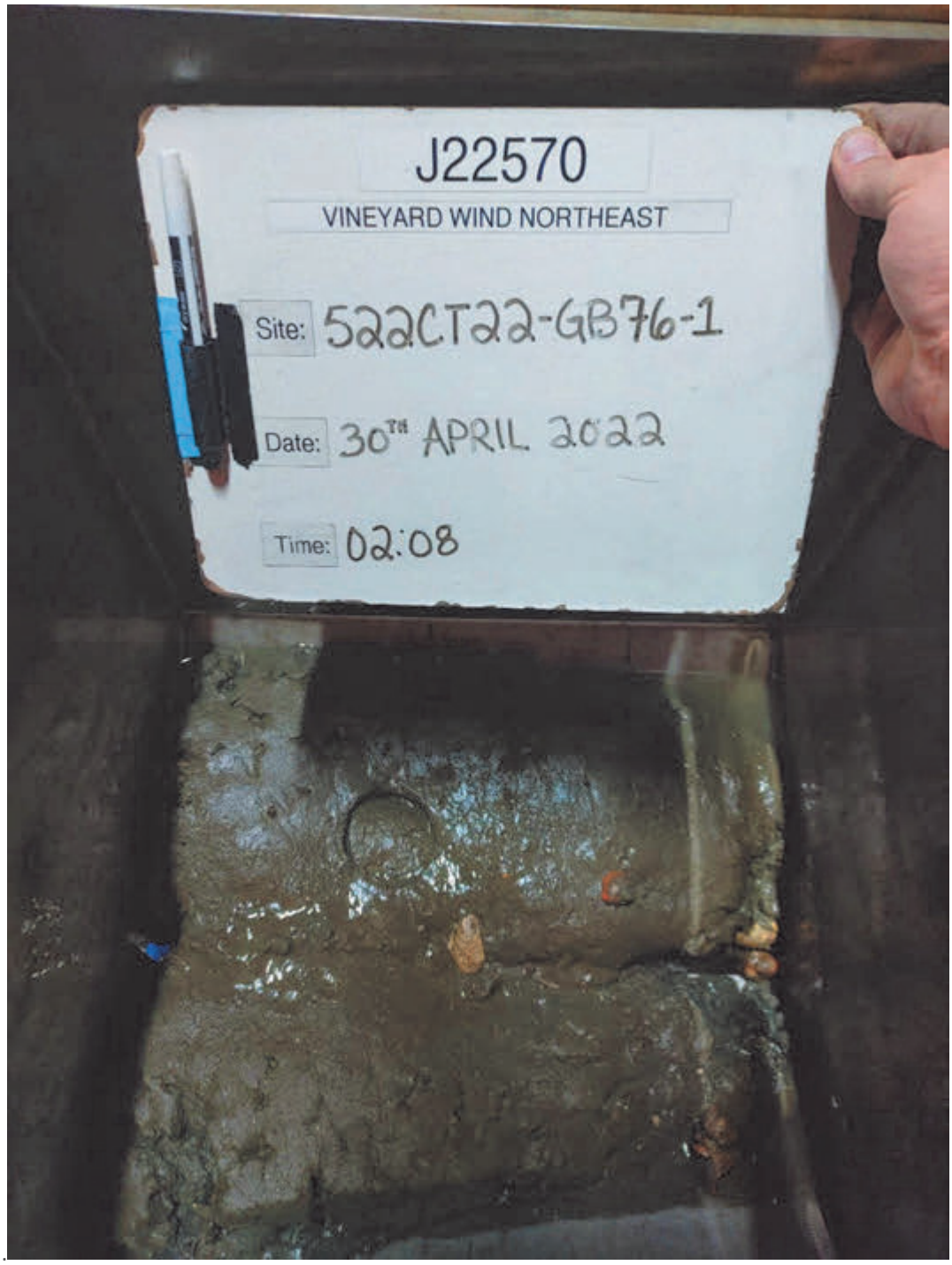

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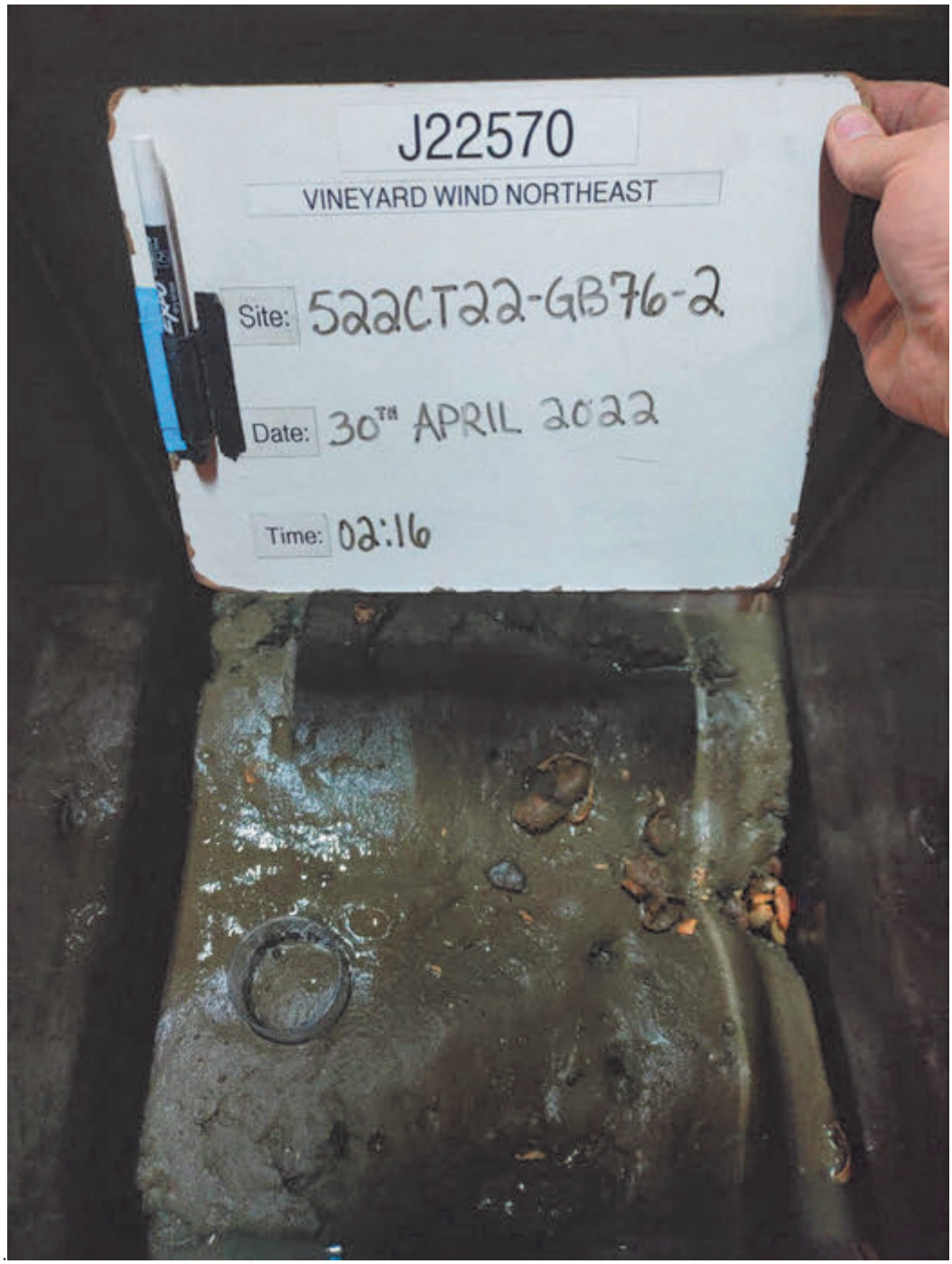

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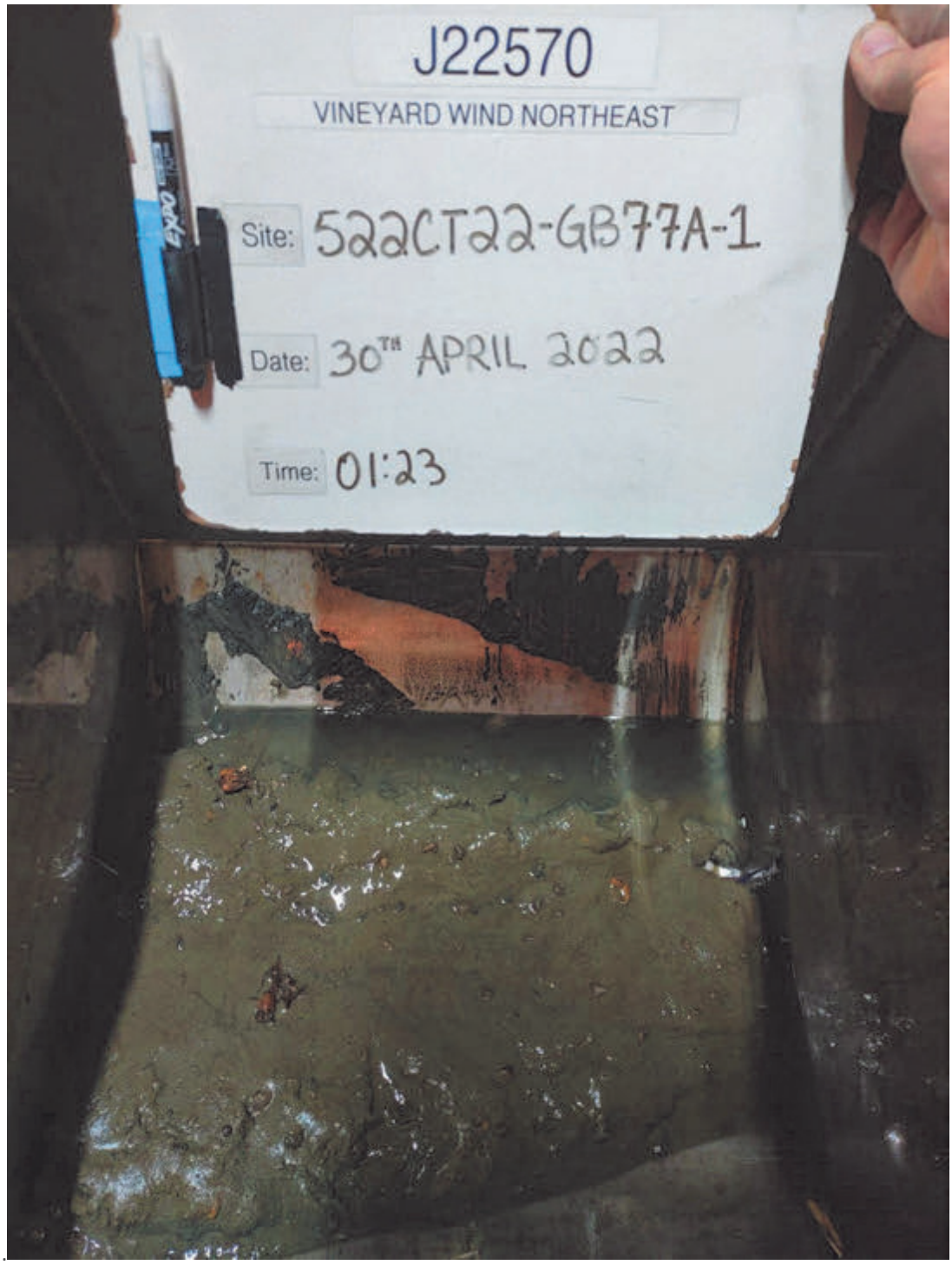

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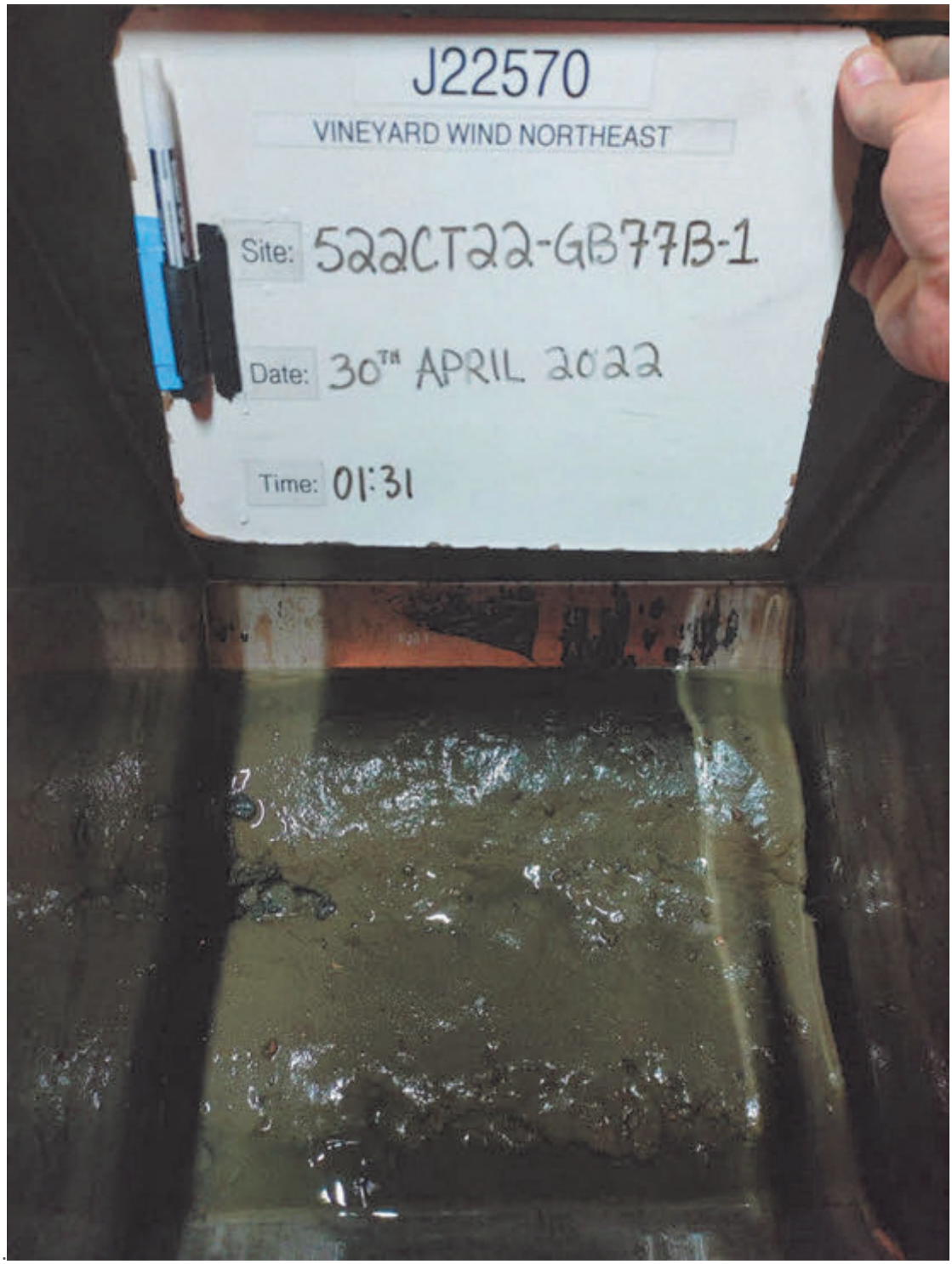

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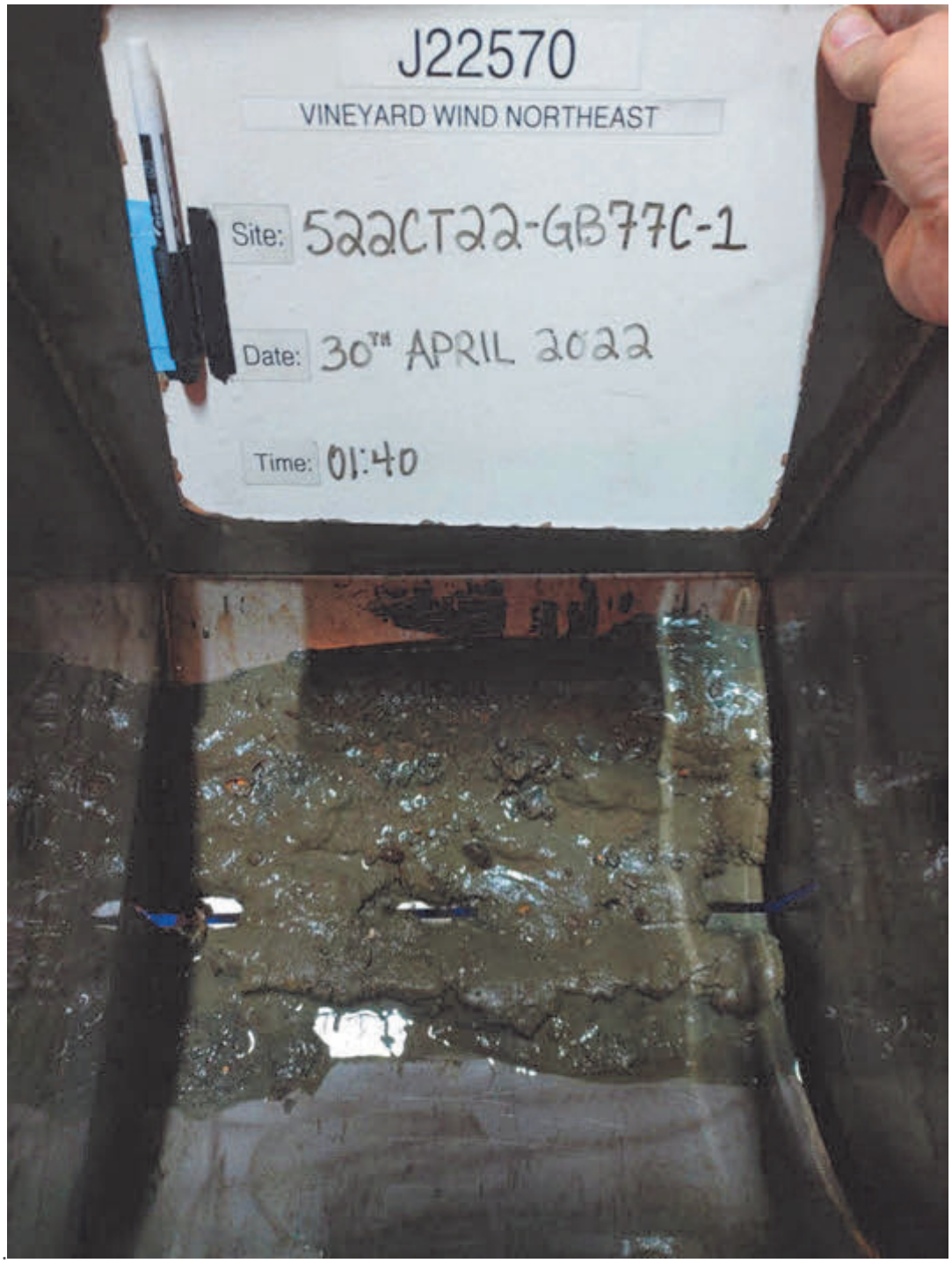

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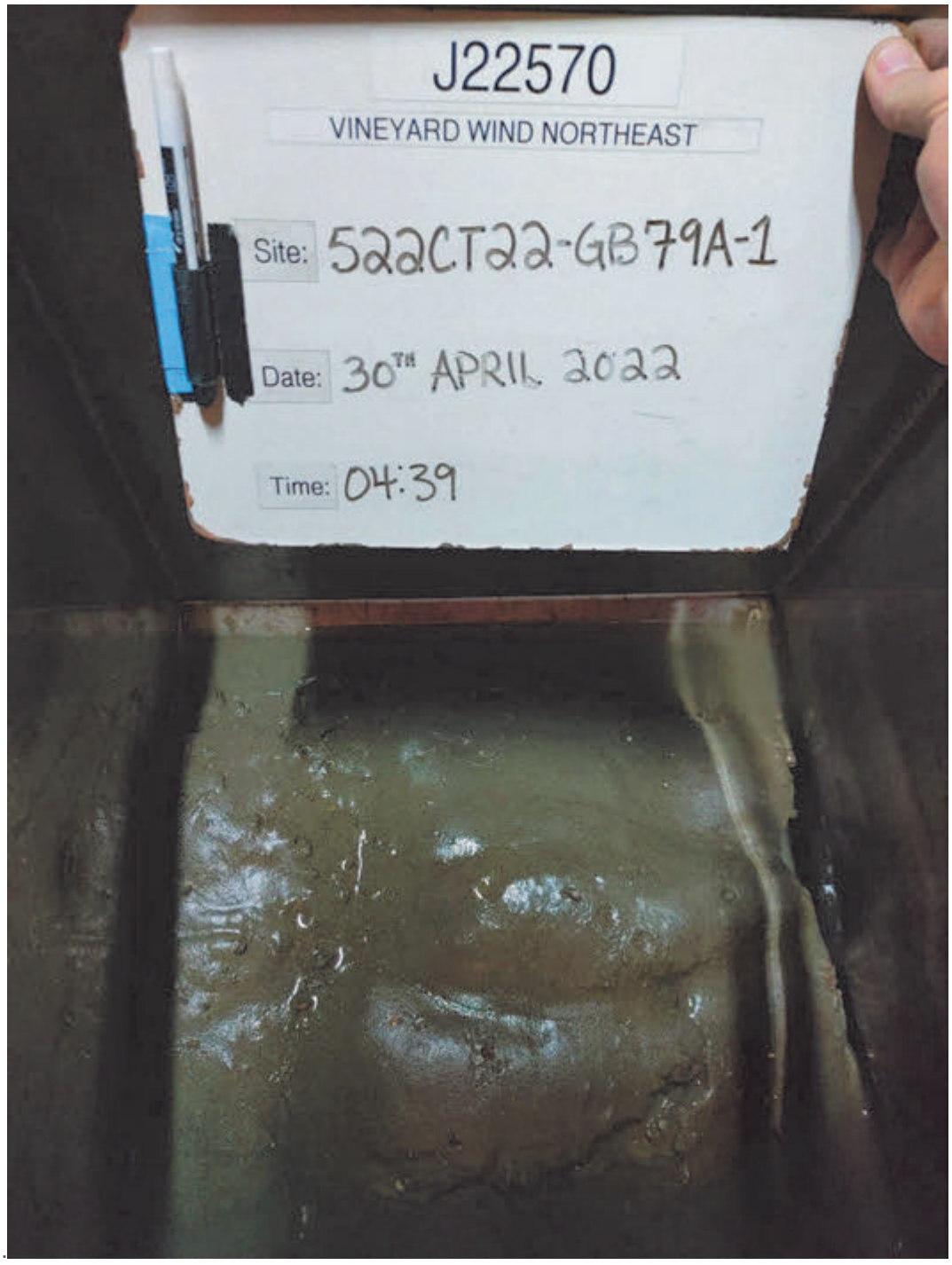

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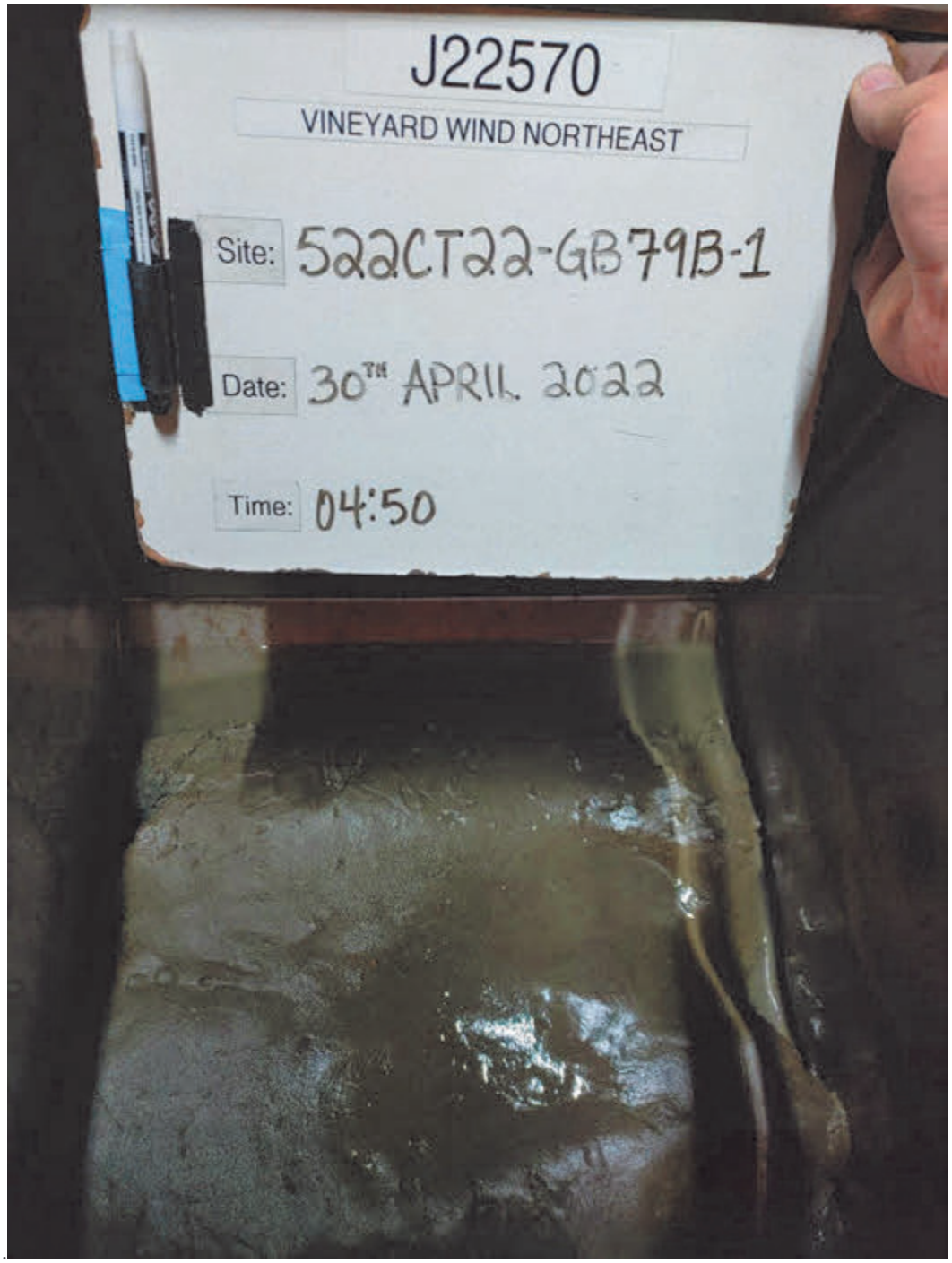

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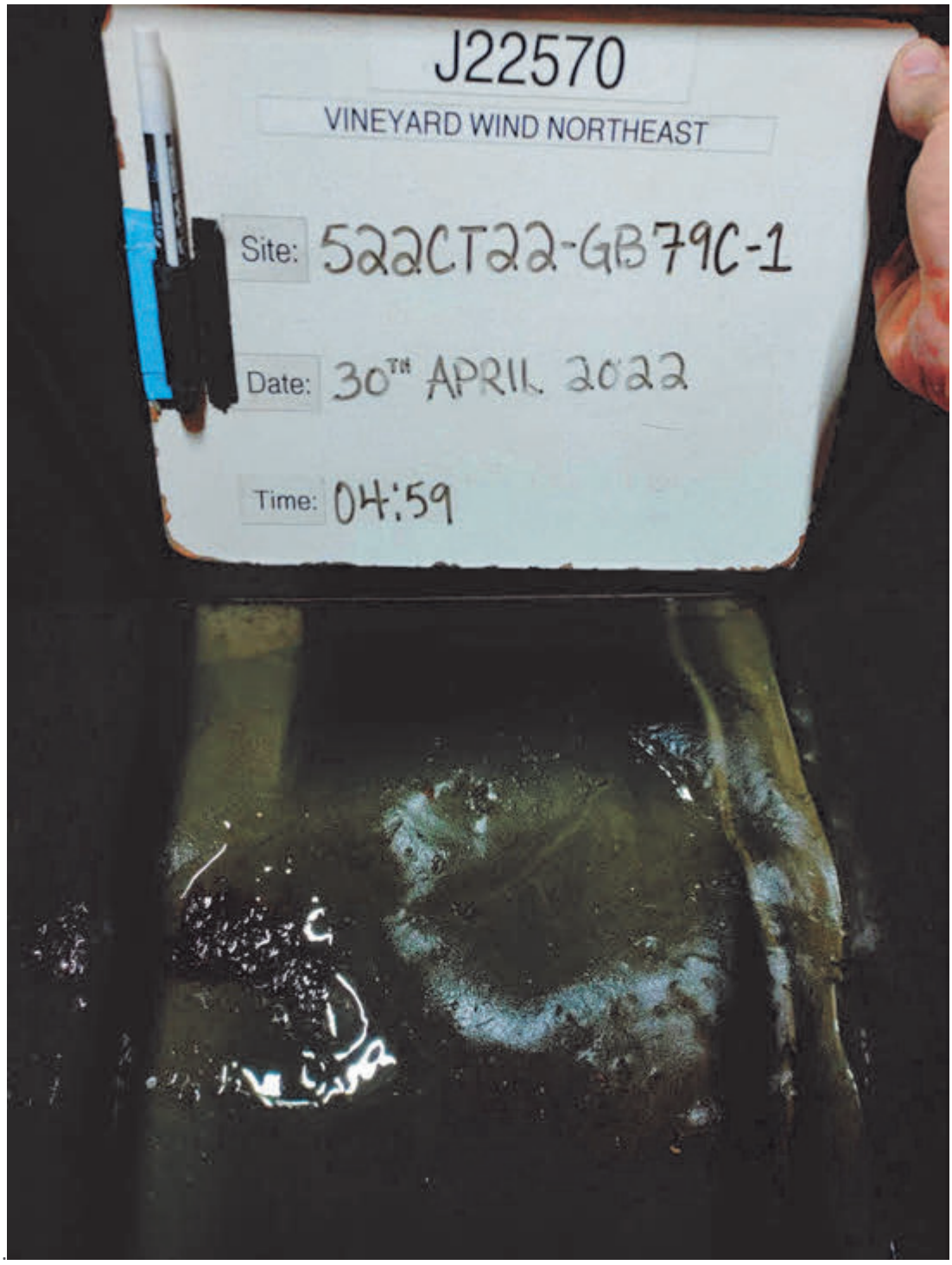

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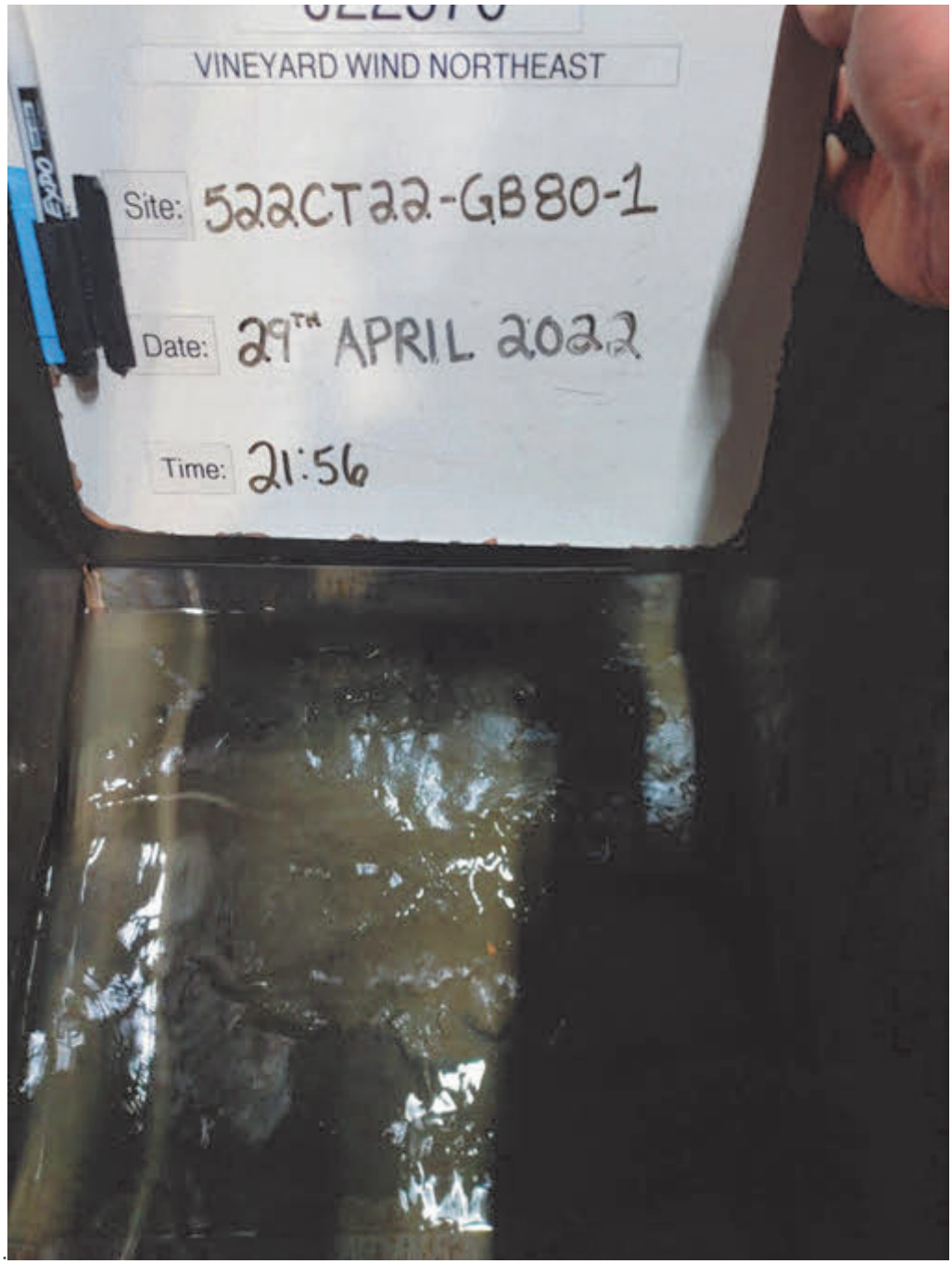

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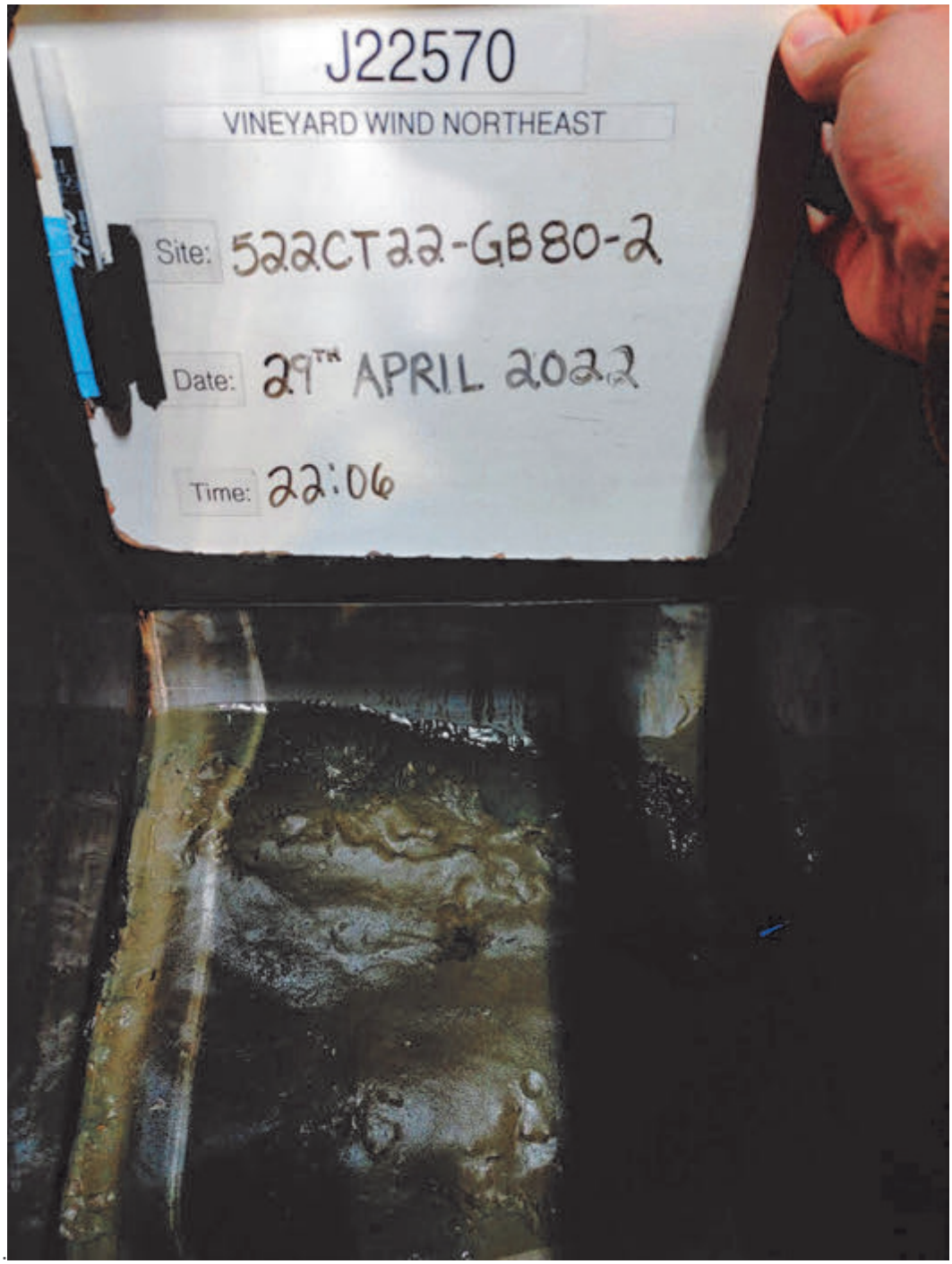

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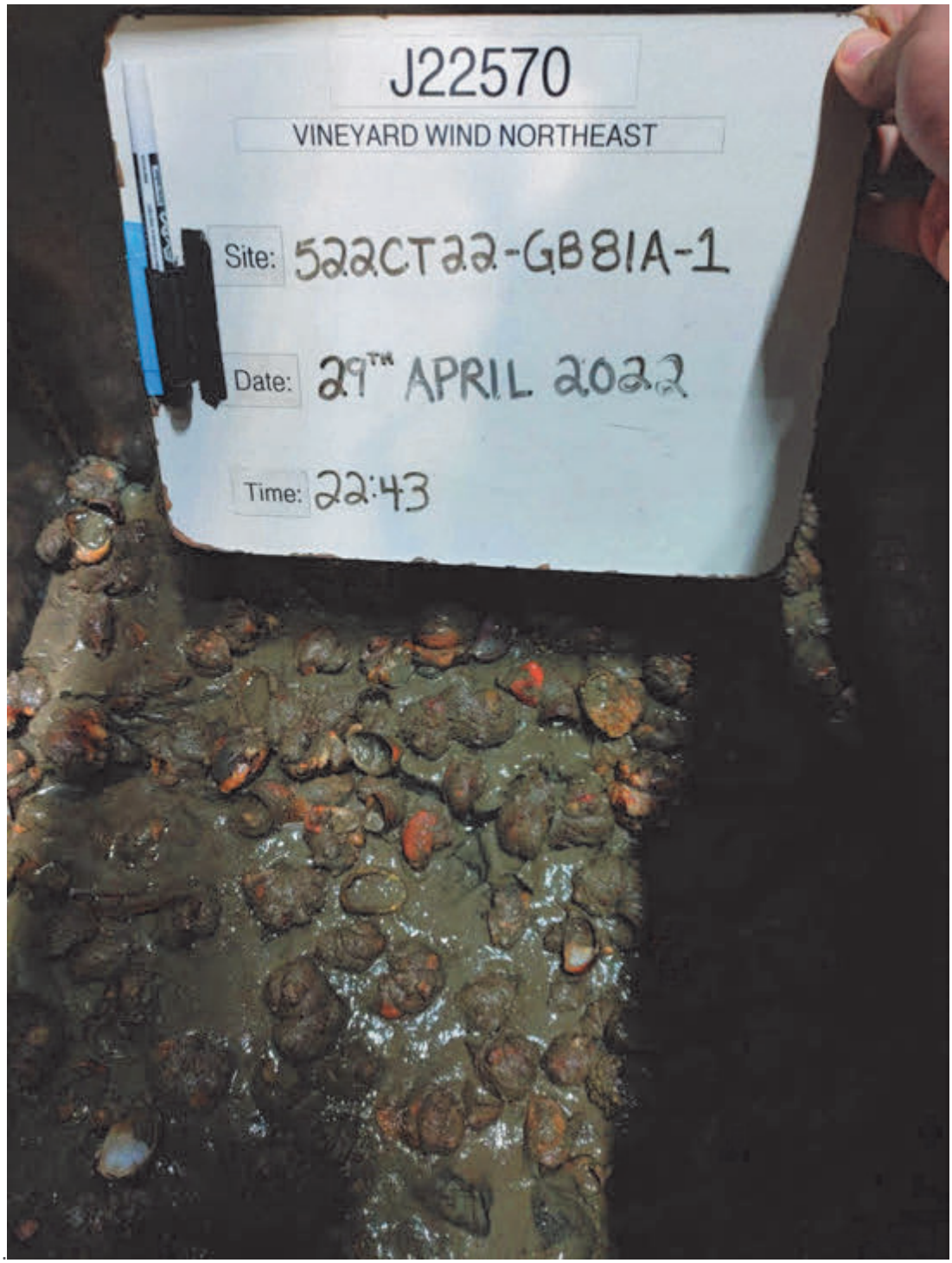

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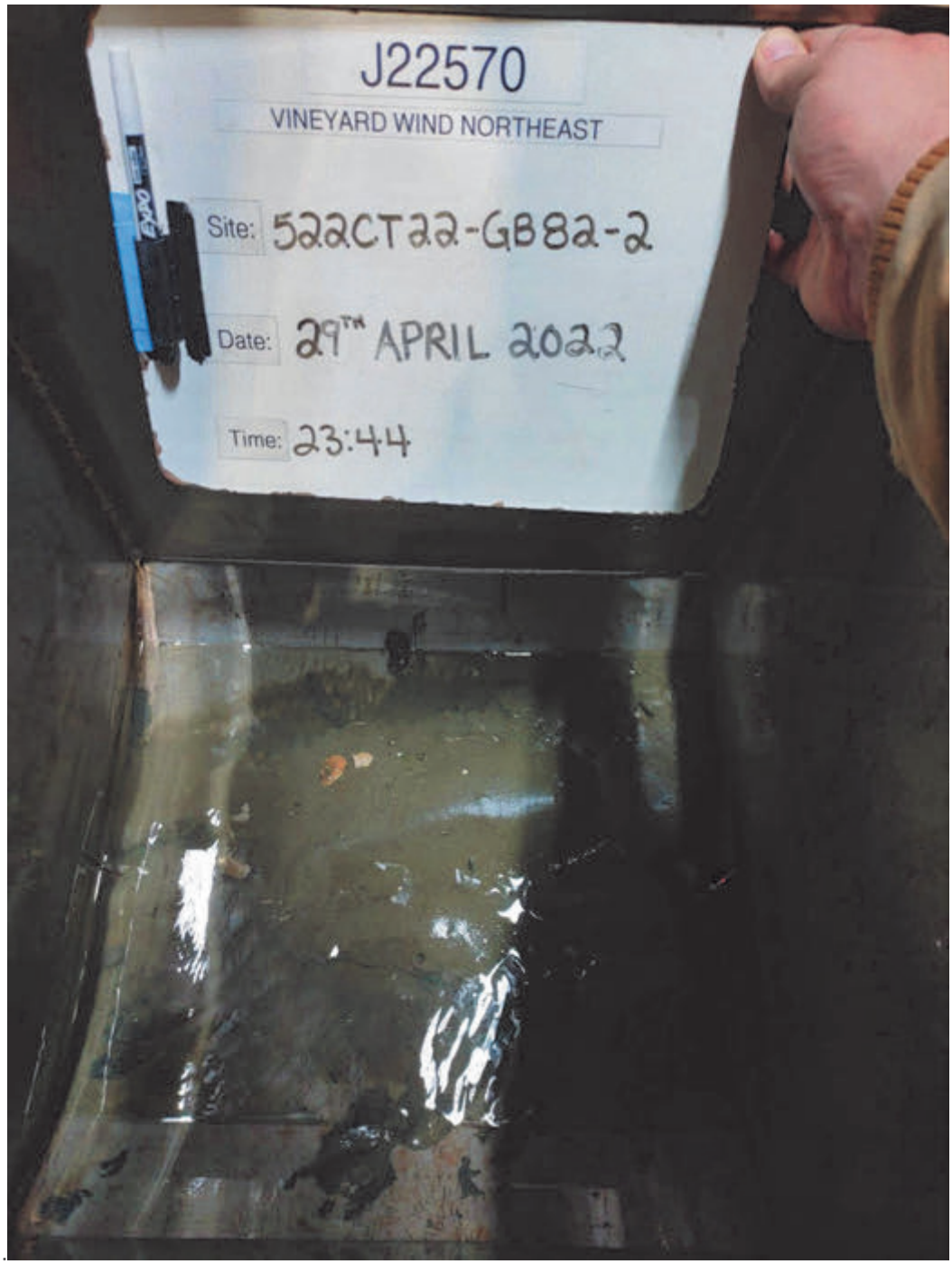

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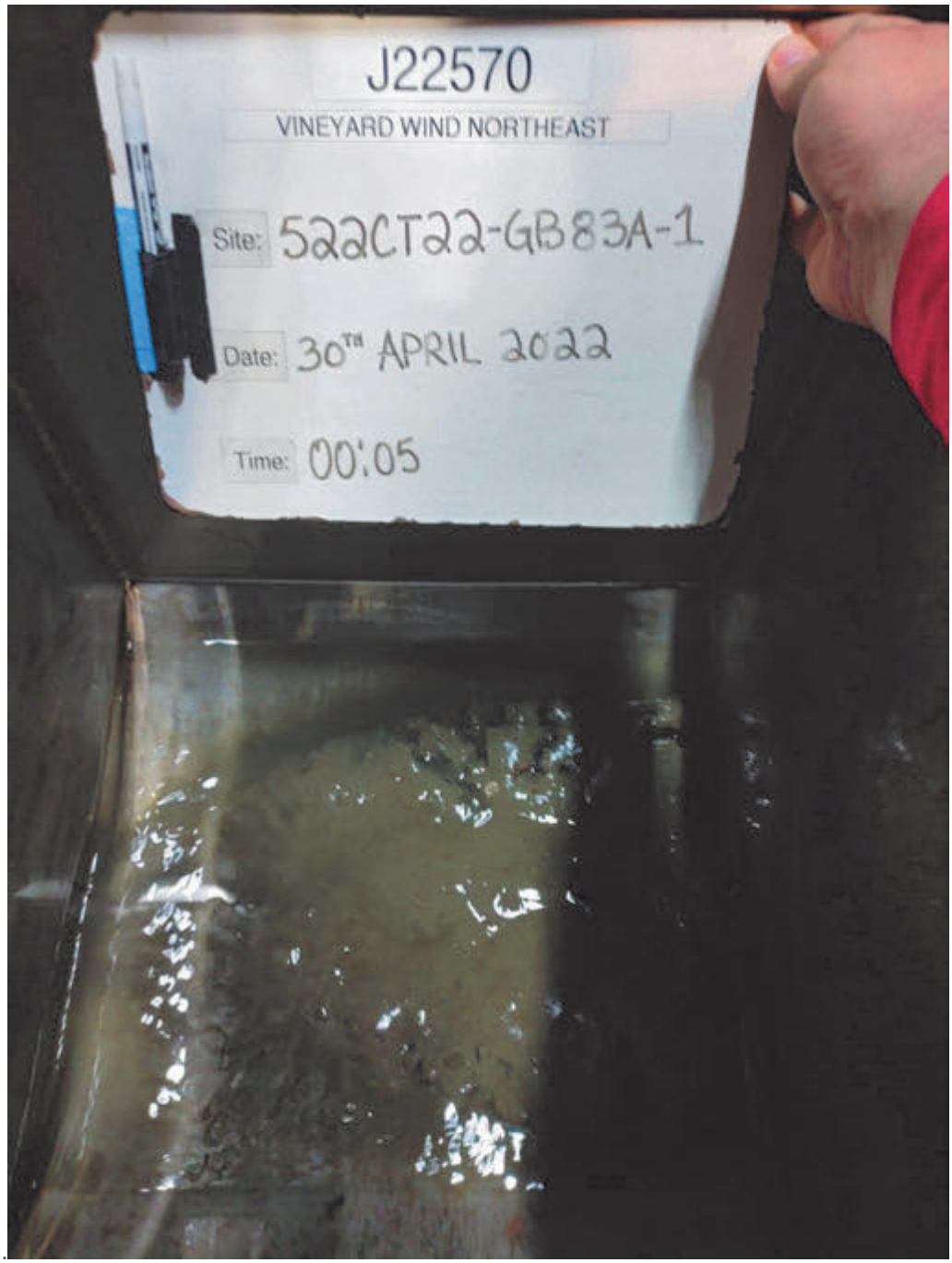

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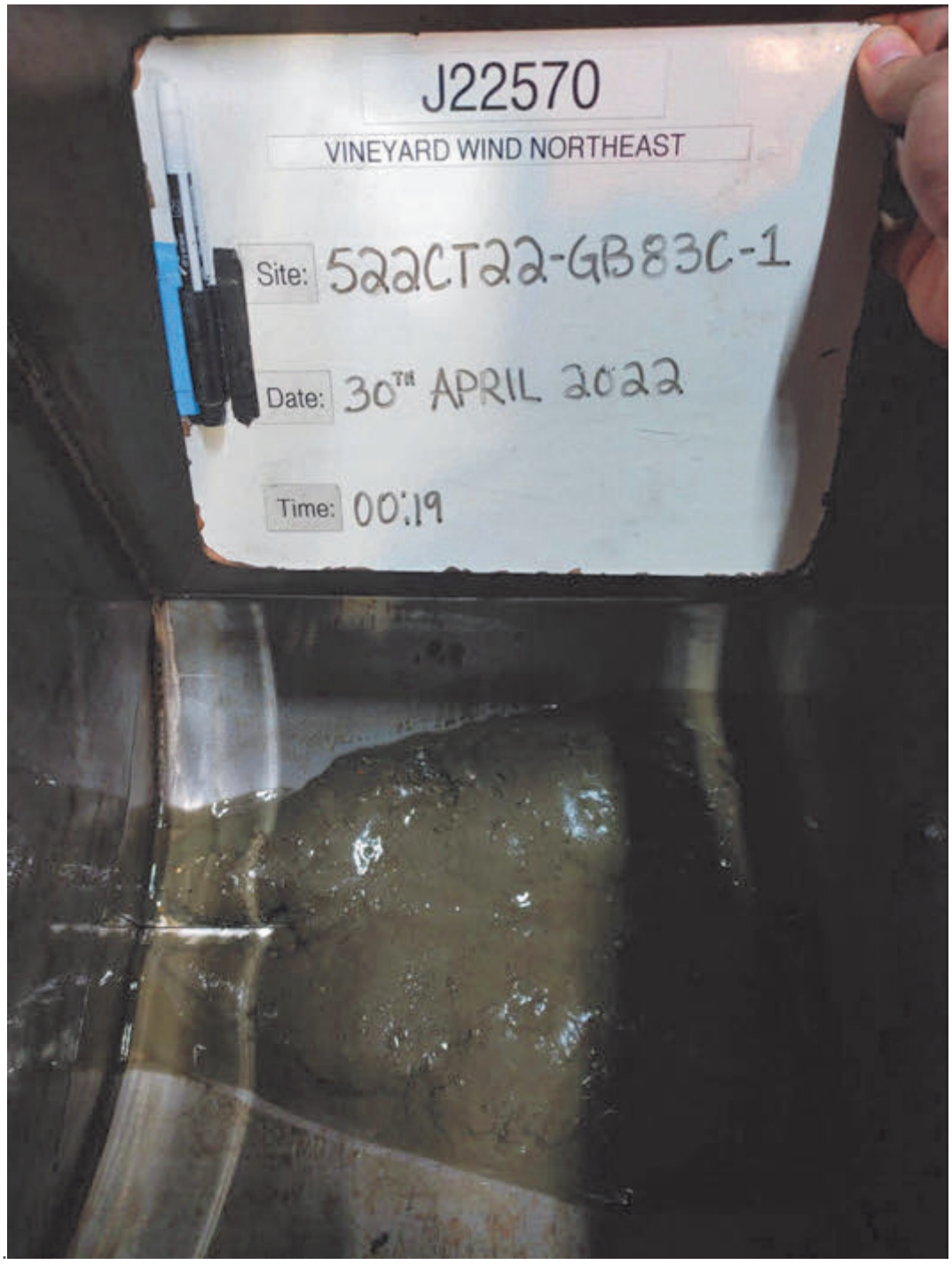

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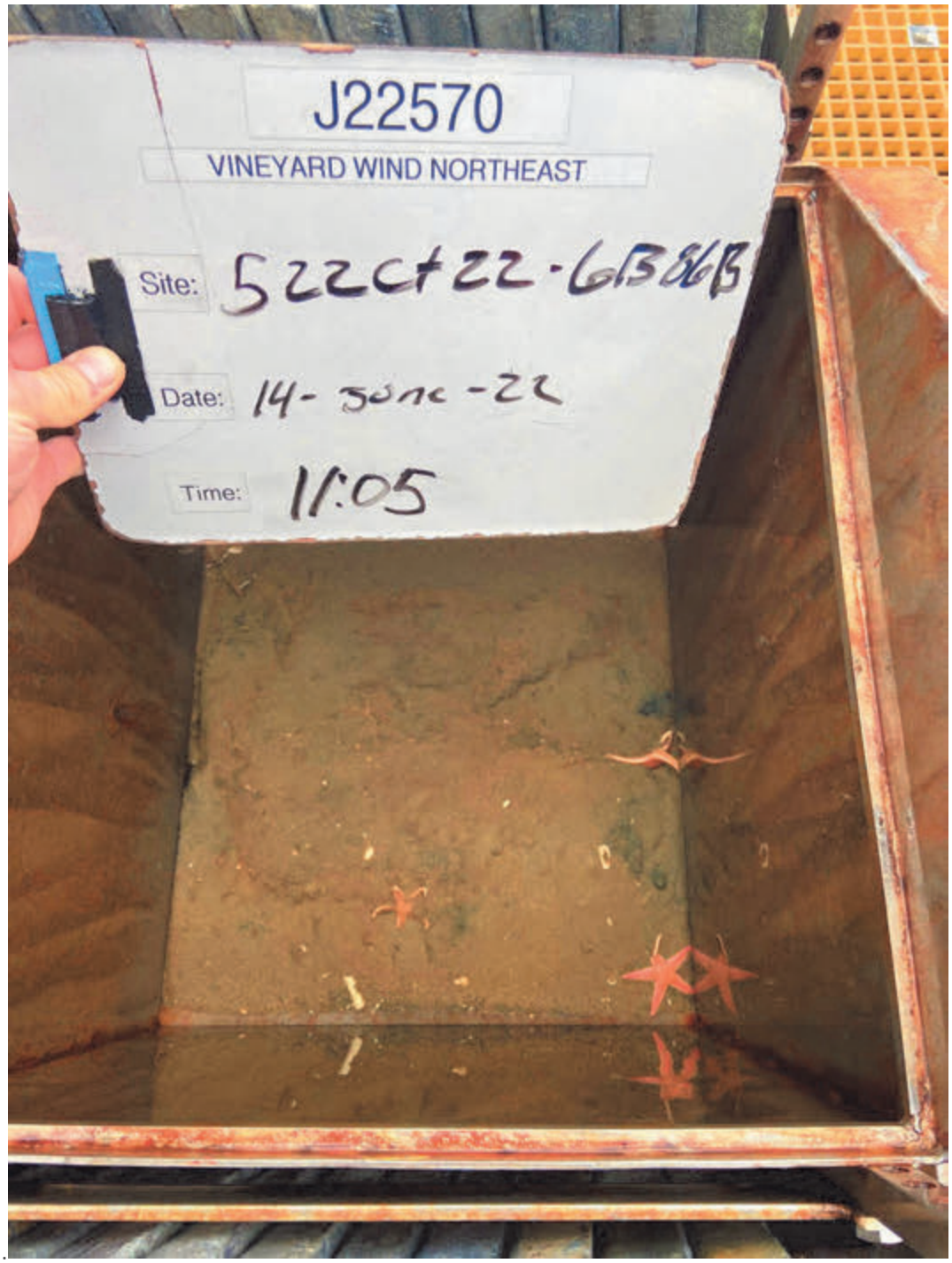

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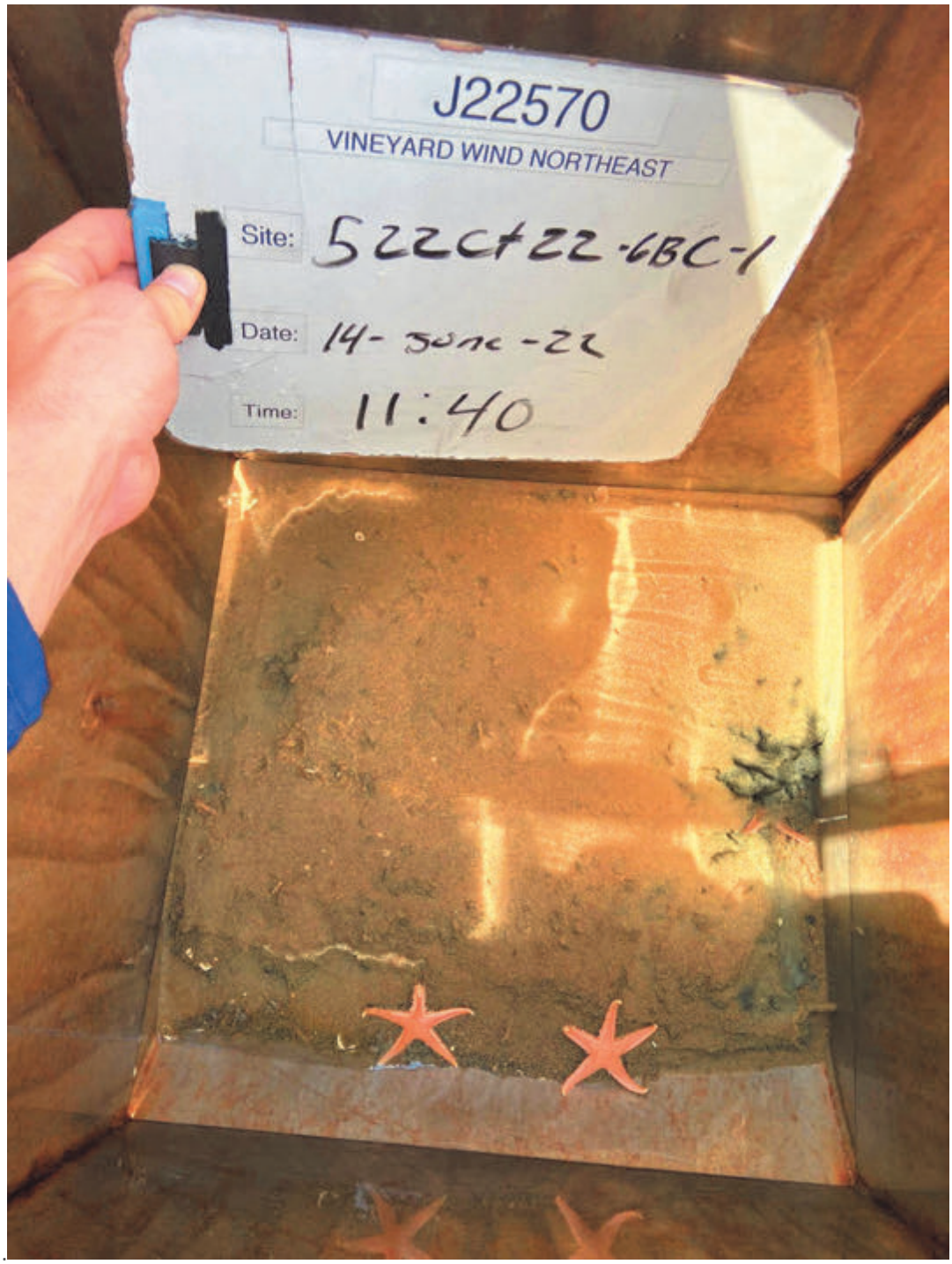

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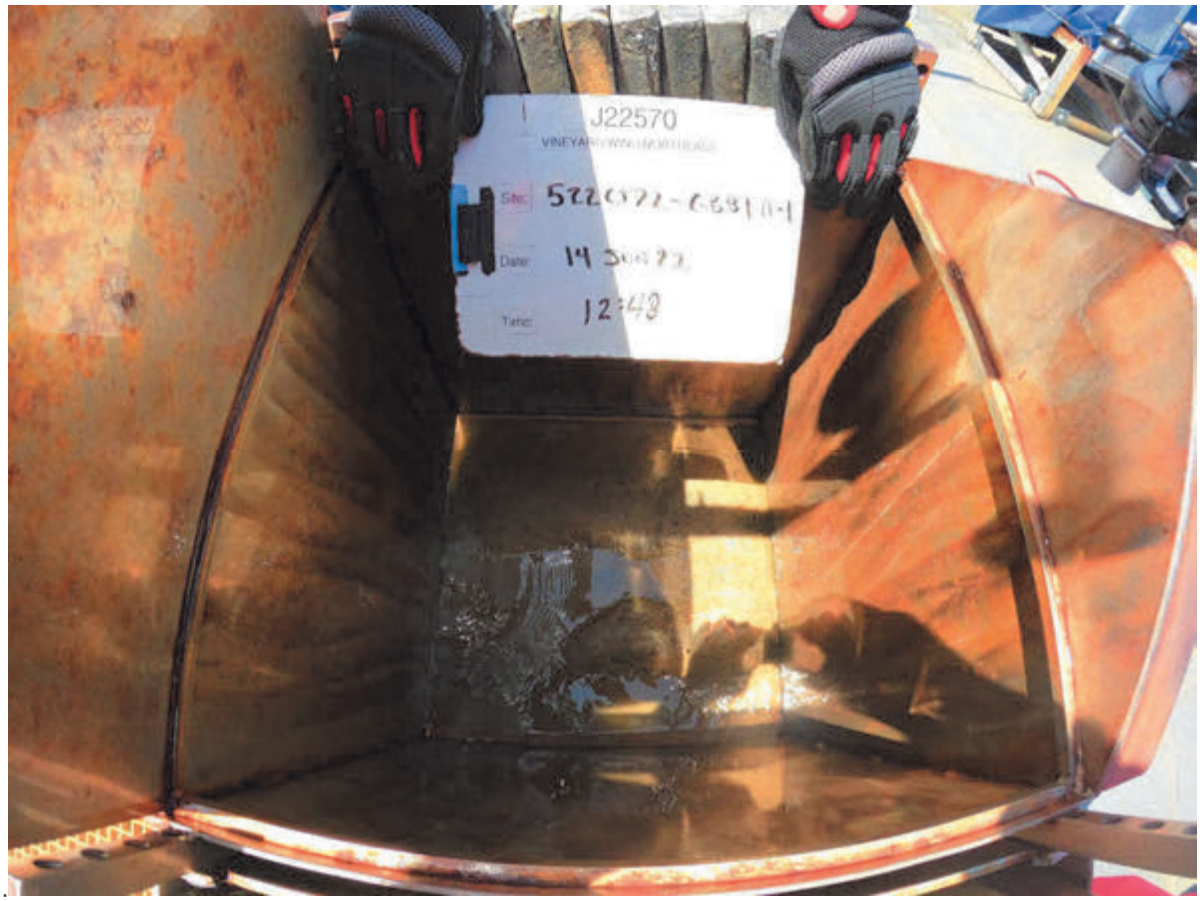

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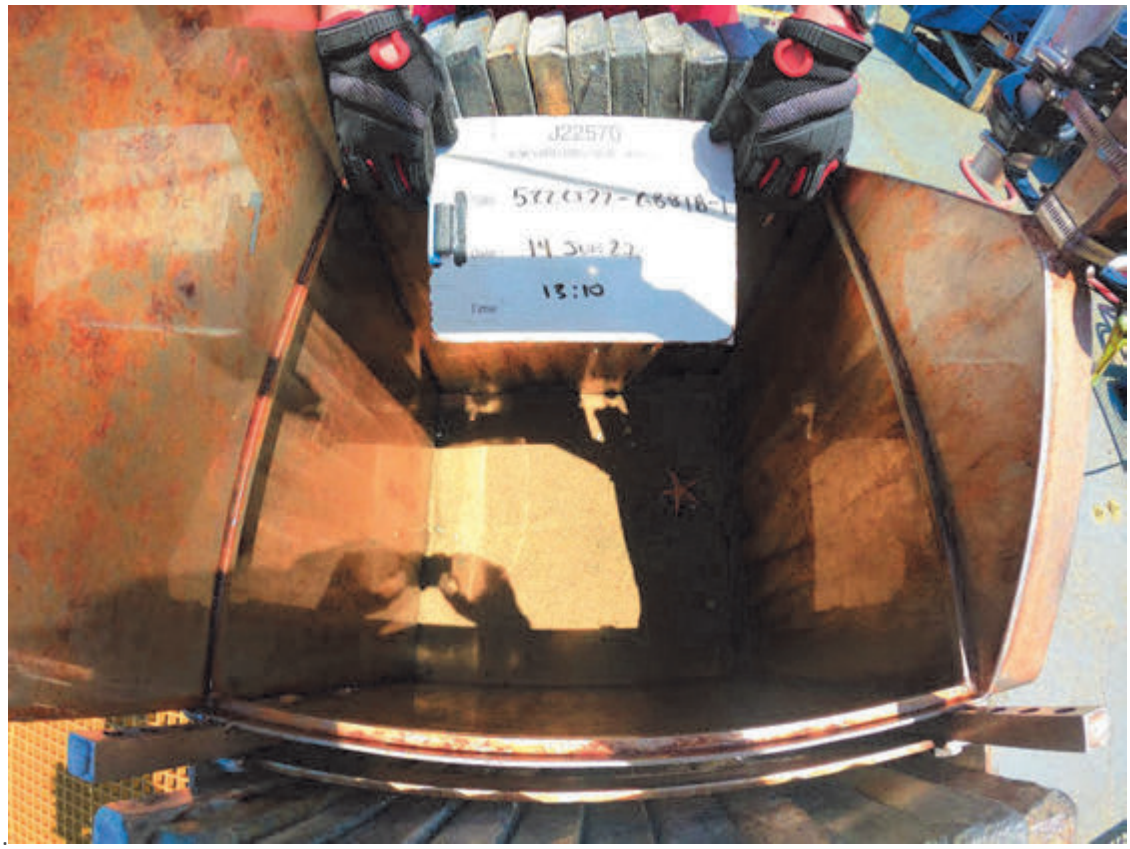

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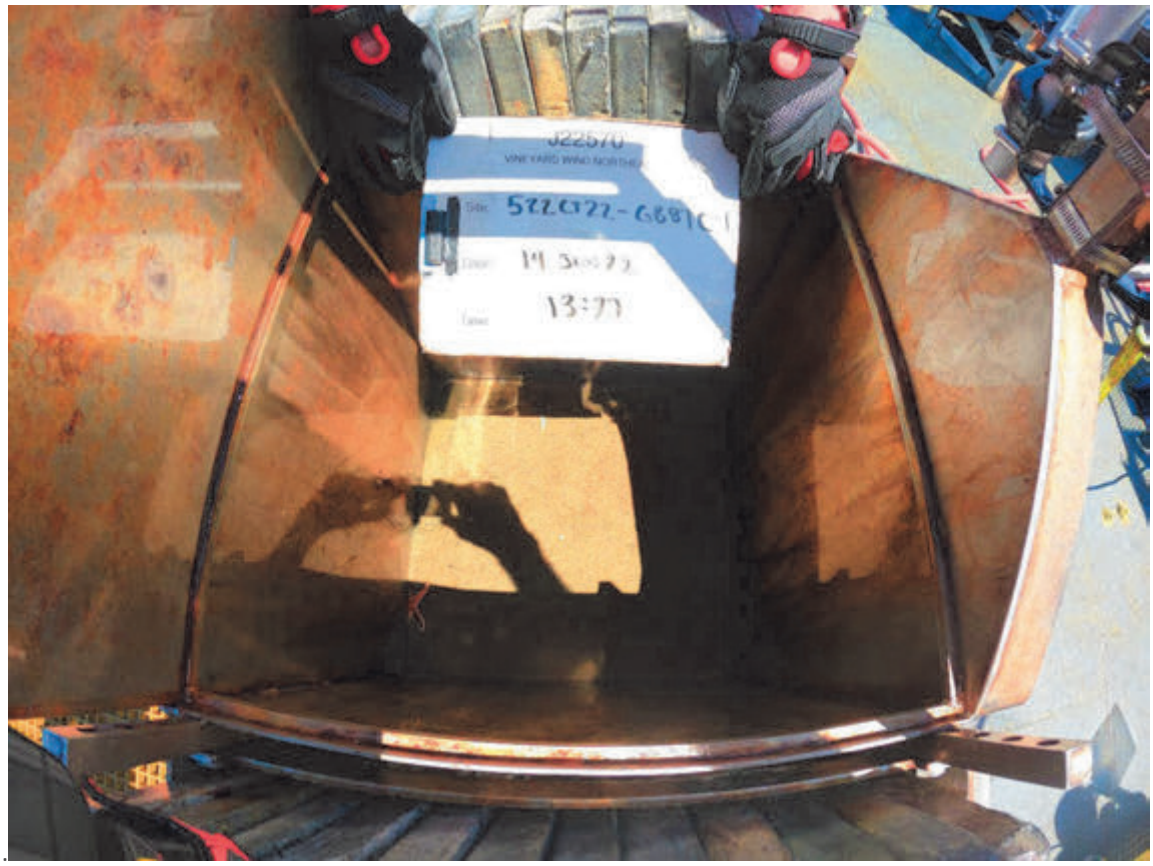

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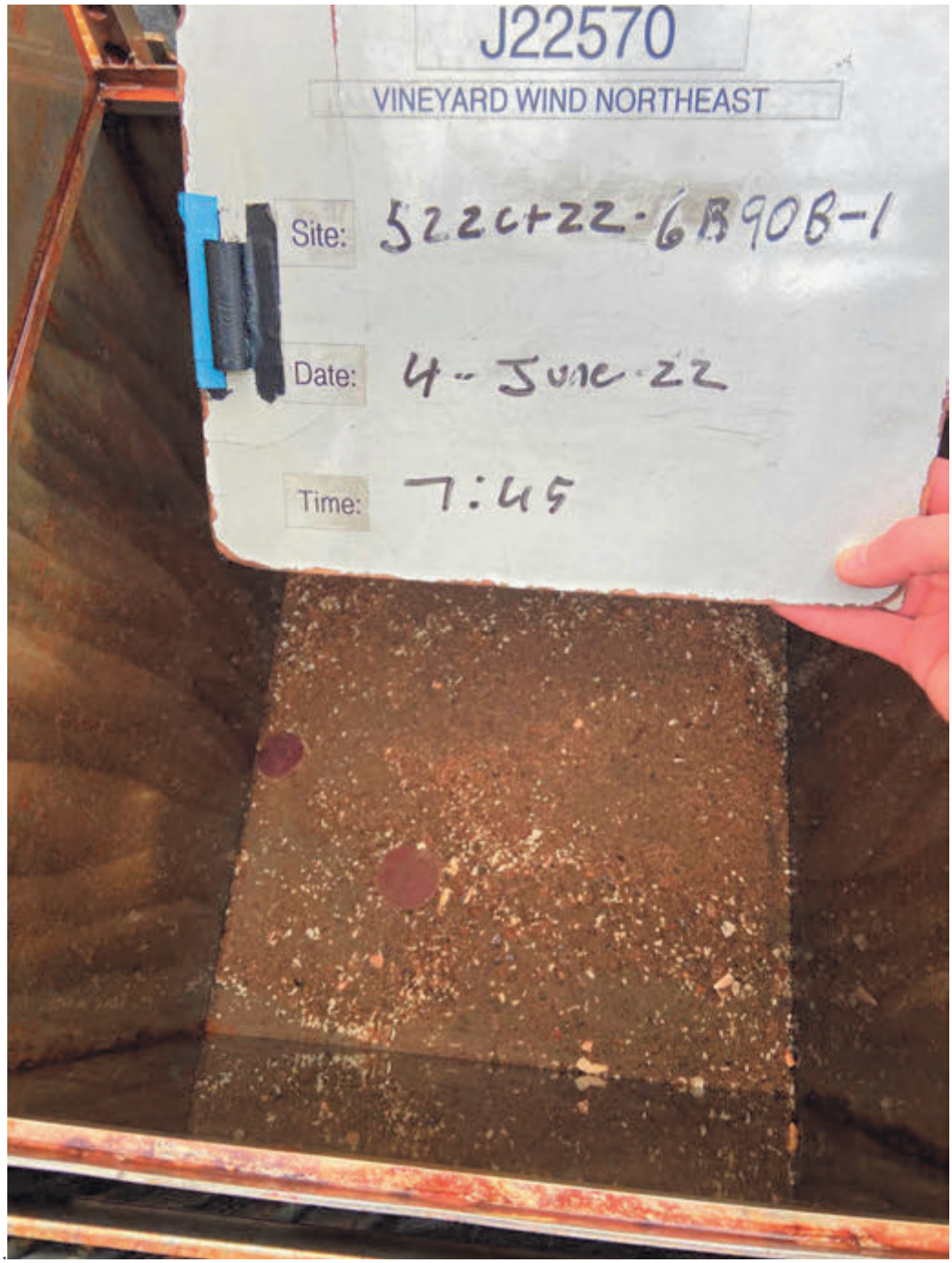

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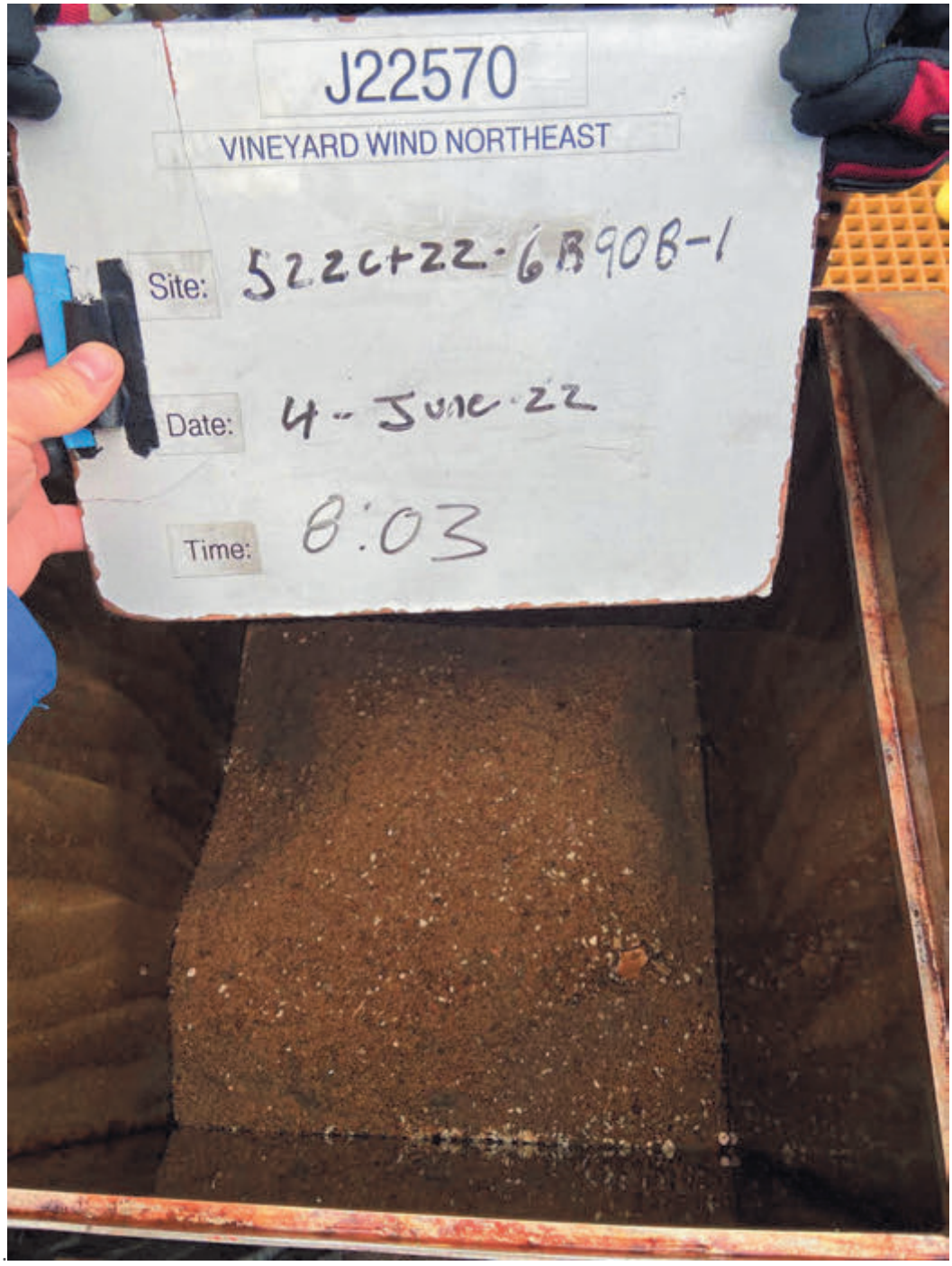

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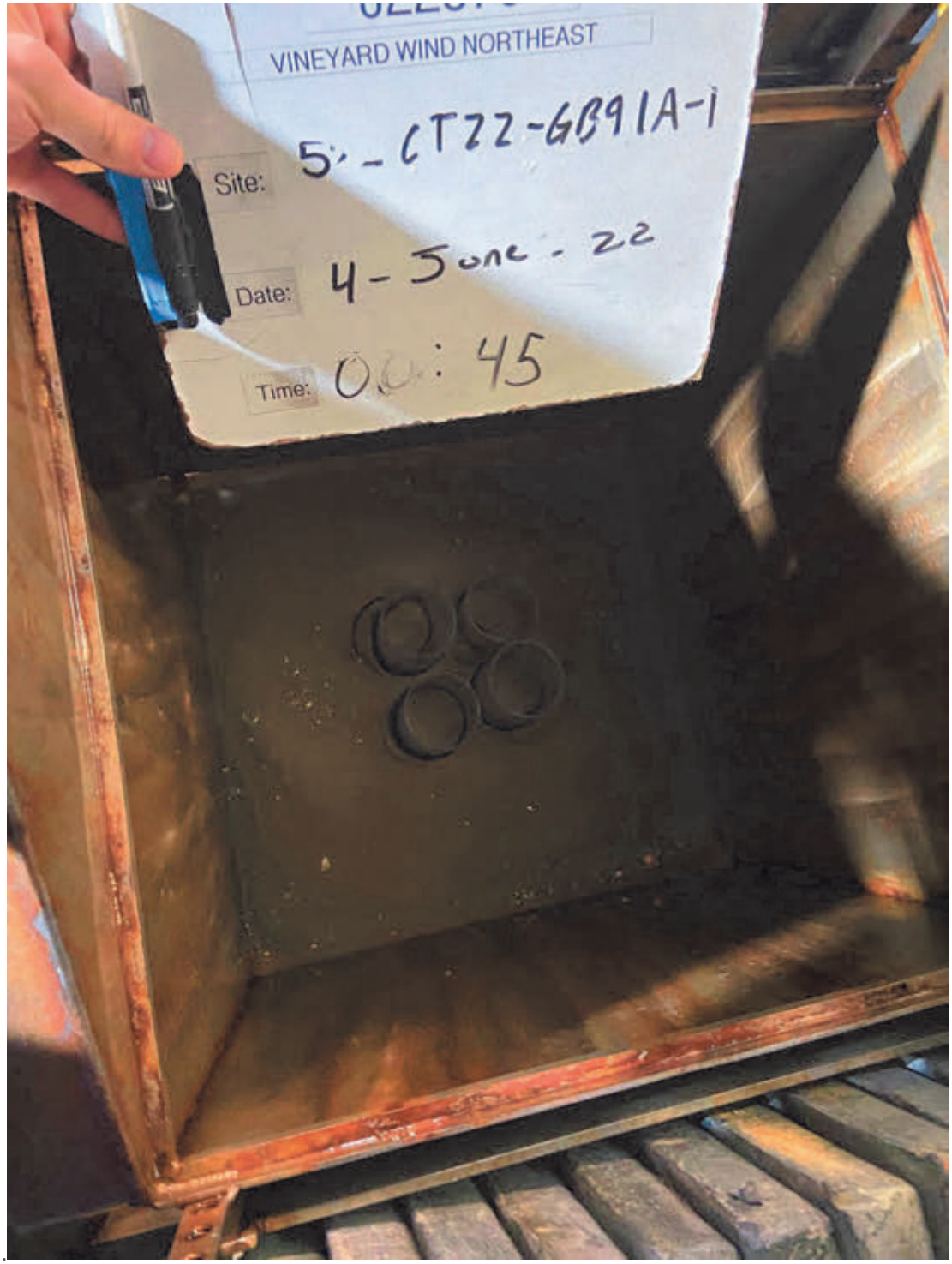

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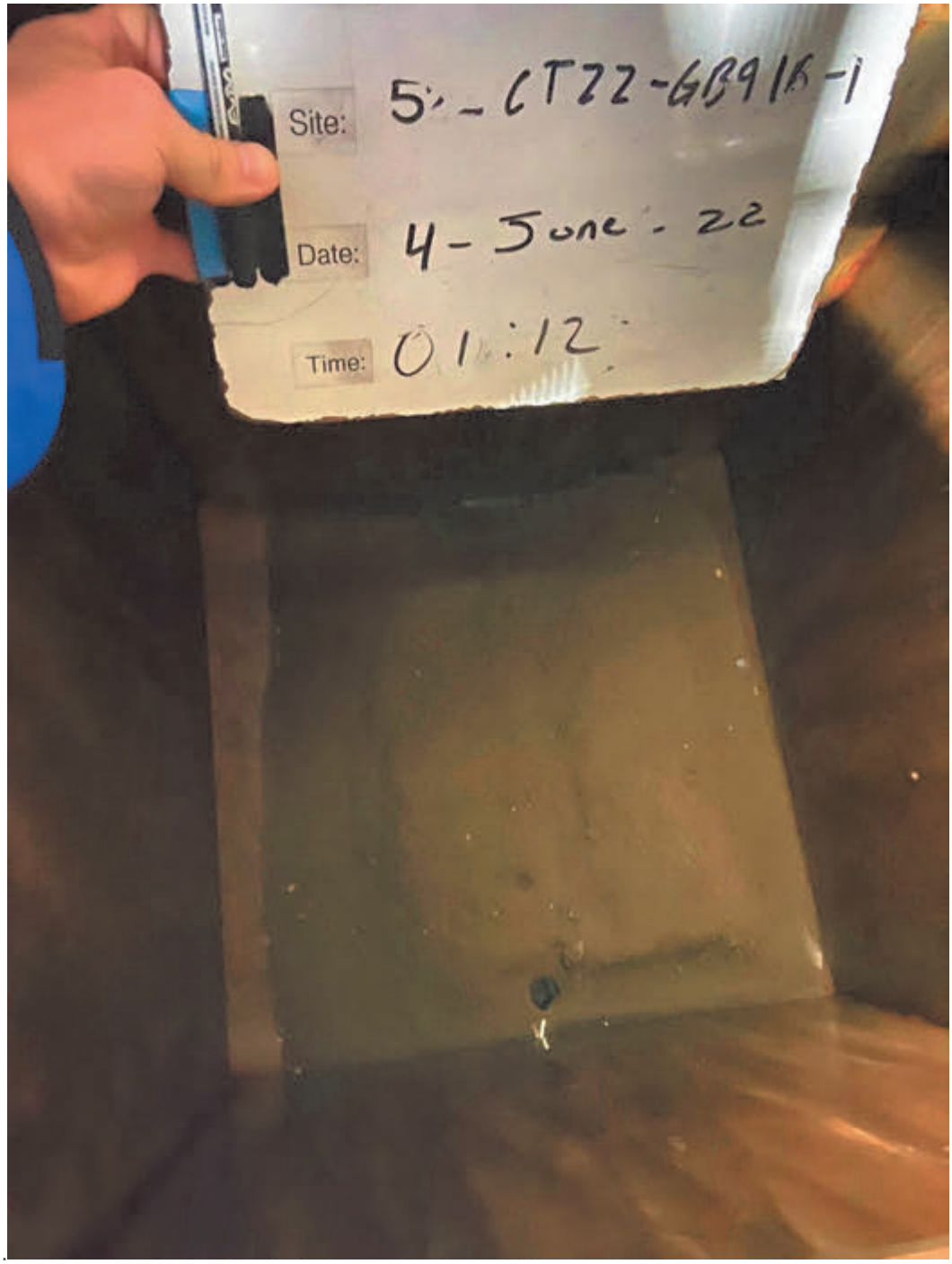

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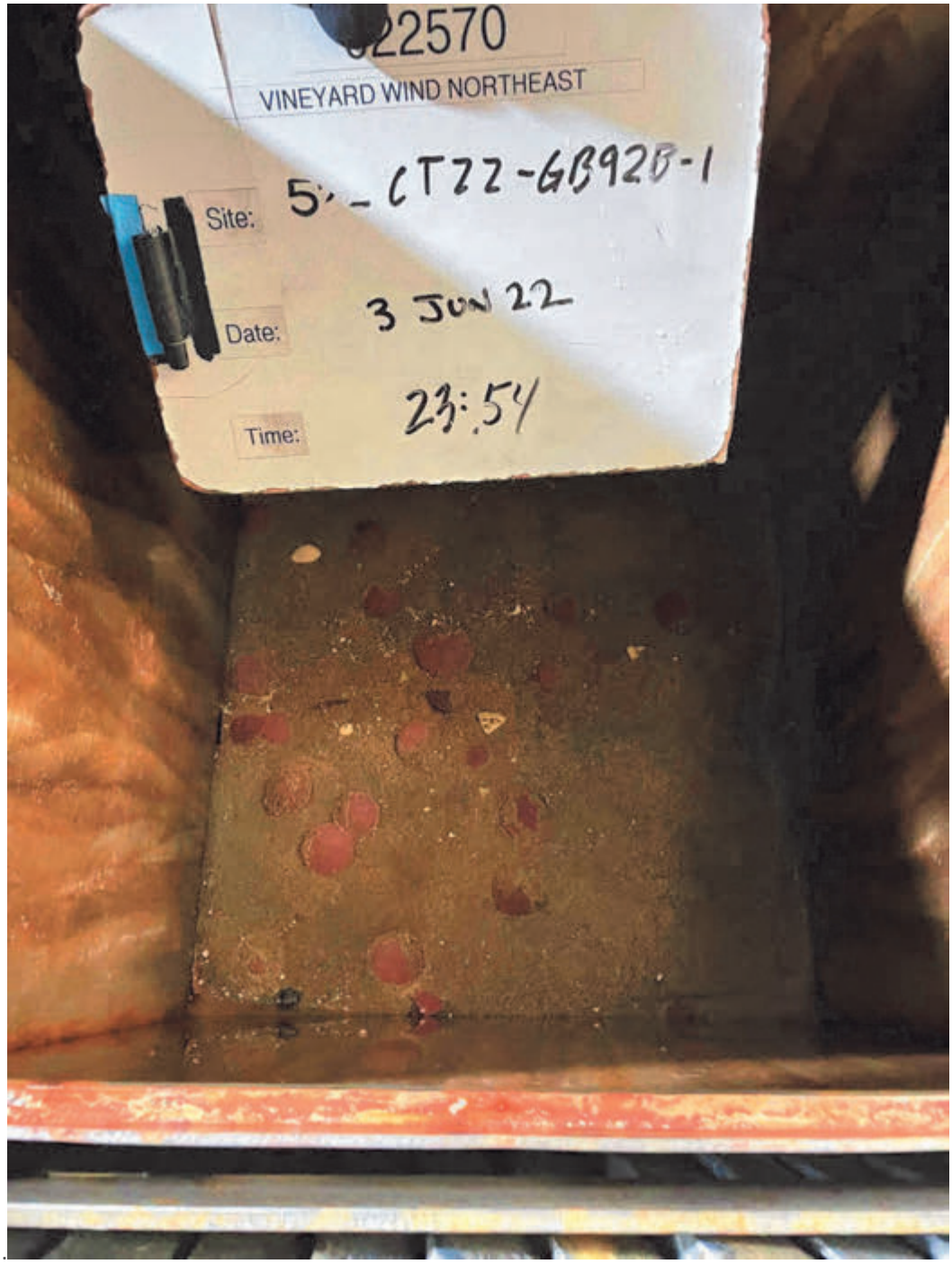

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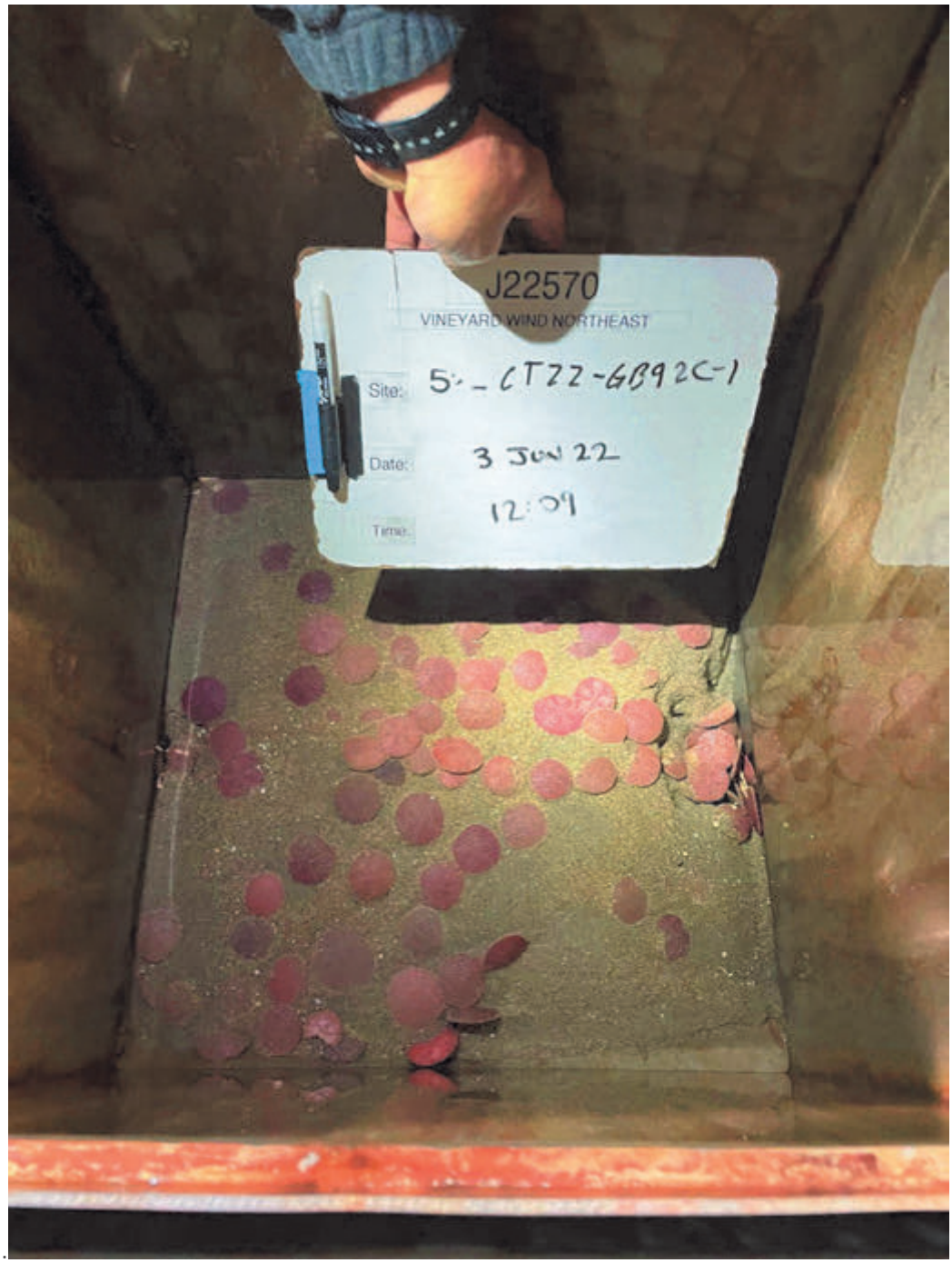

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PHOTO INFORMATION

Sample ID 522CT22-GB096C-1

PHOTO INFORMATION

Sample ID 522CT22-GB097A-1

PHOTO INFORMATION

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PHOTO INFORMATION

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PHOTO INFORMATION

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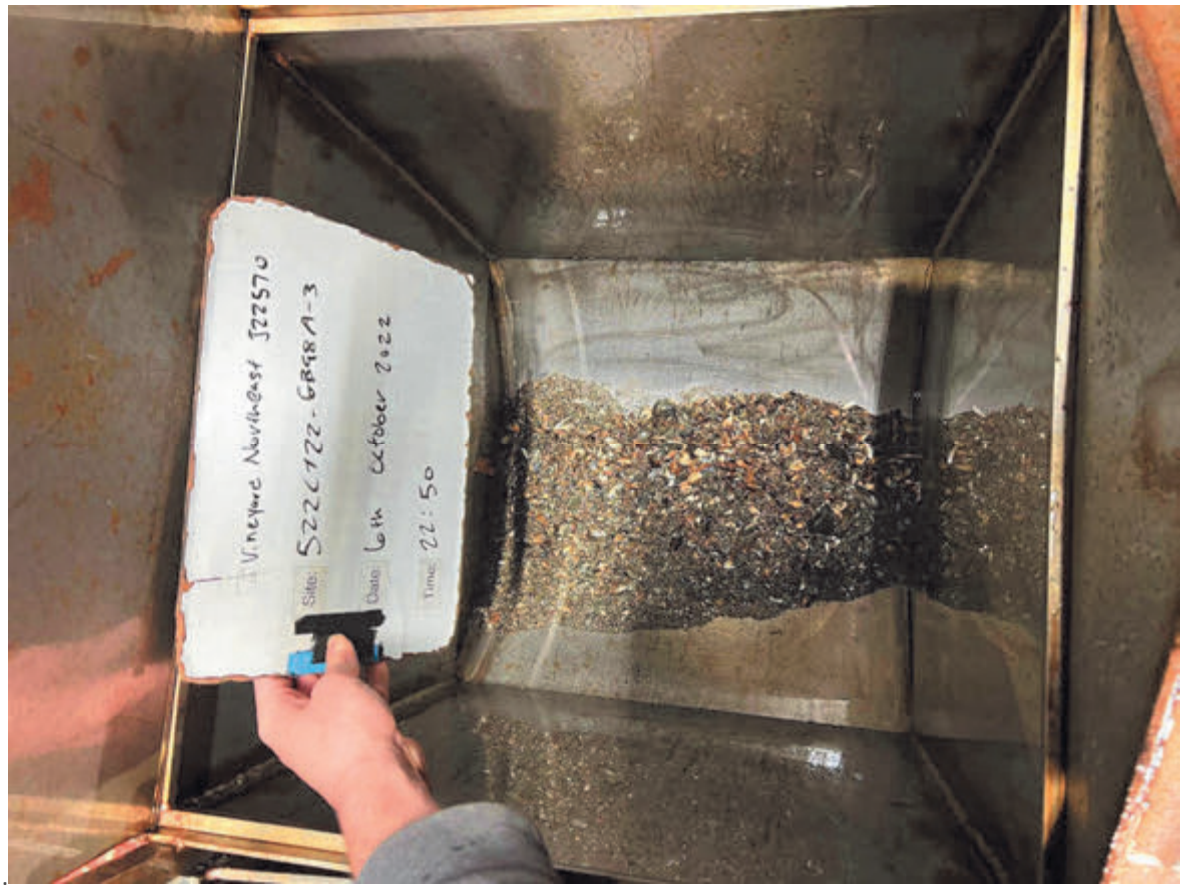

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PHOTO INFORMATION

Sample ID 522CT22-GB099C-1

PHOTO INFORMATION

Sample ID 522CT22-GB100

PHOTO INFORMATION

Sample ID 522CT22-GB100A-1

PHOTO INFORMATION

Sample ID 522CT22-GB100B-1

PHOTO INFORMATION

Sample ID 522CT22-GB101

PHOTO INFORMATION

Sample ID 522CT22-GB101A-1

PHOTO INFORMATION

Sample ID 522CT22-GB101B-1

PHOTO INFORMATION

Sample ID 522CT22-GB102

PHOTO INFORMATION

Sample ID 522CT22-GB102

PHOTO INFORMATION

Sample ID 522CT22-GB102A-1

PHOTO INFORMATION

Sample ID 522CT22-GB102B-1

PHOTO INFORMATION

Sample ID 522CT22-GB103

PHOTO INFORMATION

Sample ID 522CT22-GB103A-1

PHOTO INFORMATION

Sample ID 522CT22-GB103B-1

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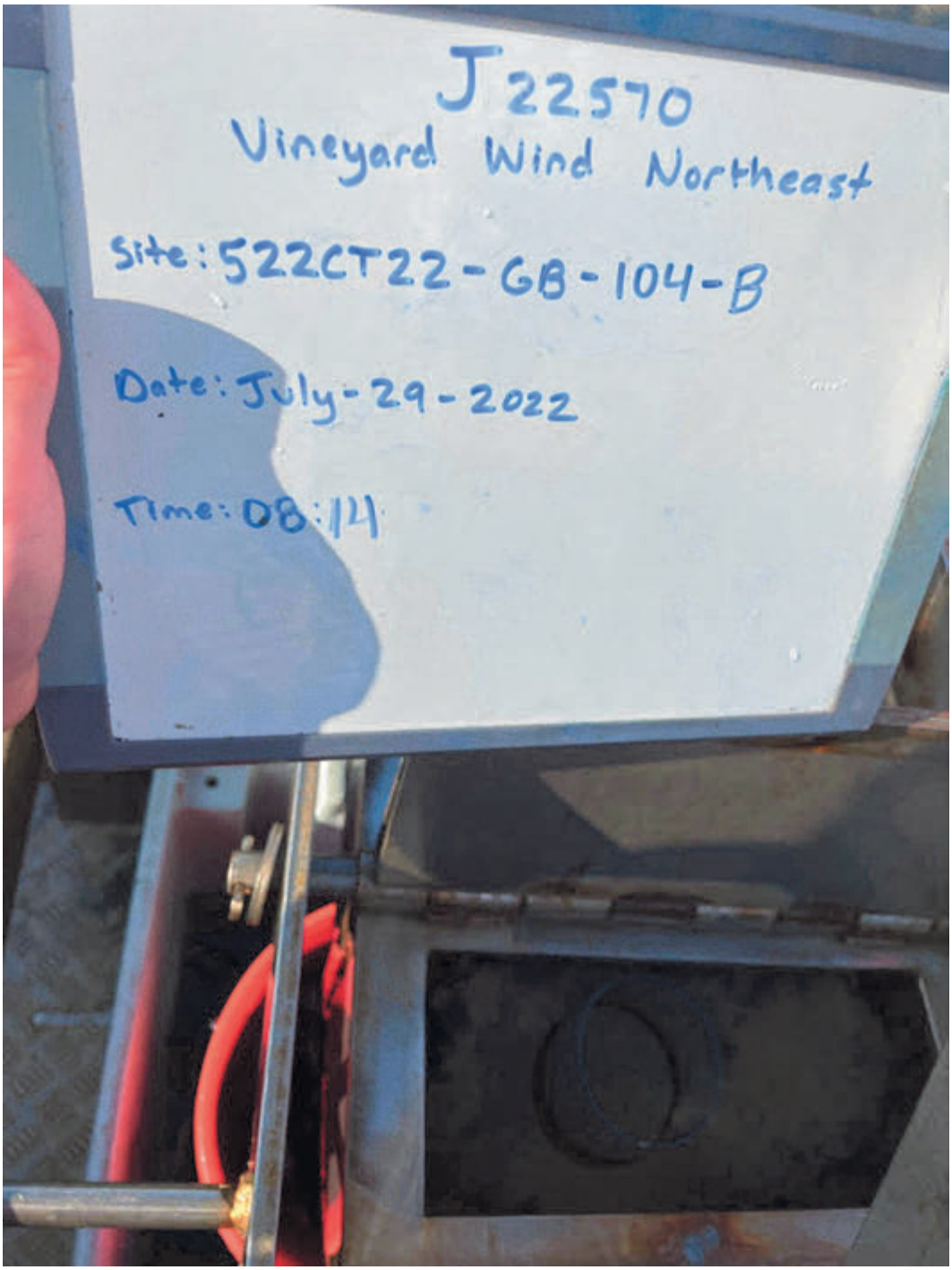

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Sample ID 522CT22-GB105

PHOTO INFORMATION

Sample ID 522CT22-GB105A-1

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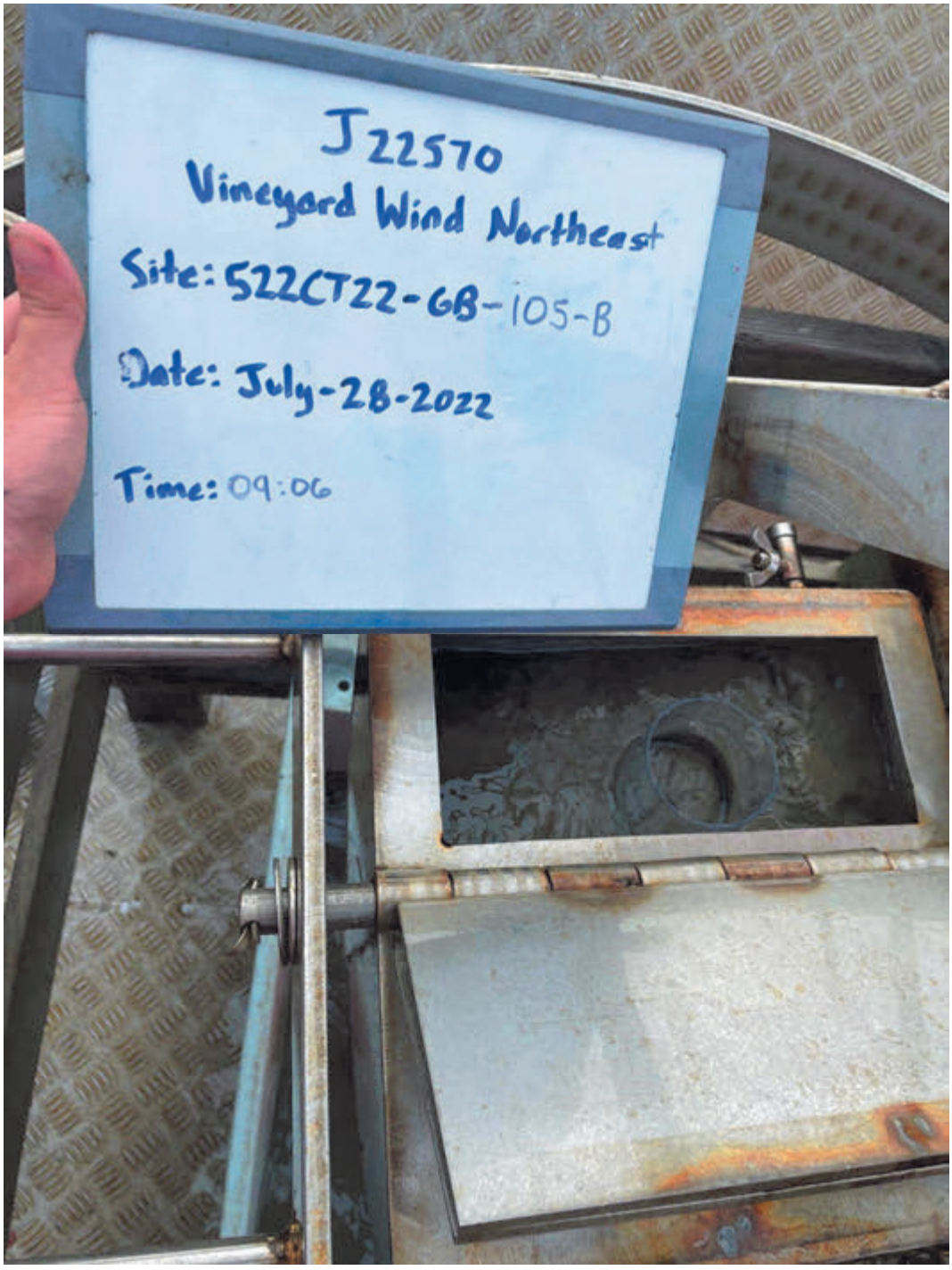

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PHOTO INFORMATION

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PHOTO INFORMATION

Sample ID 522CT22-GB107B-1

PHOTO INFORMATION

Sample ID 522CT22-GB108

PHOTO INFORMATION

Sample ID 522CT22-GB108A-1

PHOTO INFORMATION

Sample ID 522CT22-GB108B-1

PHOTO INFORMATION

Sample ID 522CT22-GB109

PHOTO INFORMATION

Sample ID 522CT22-GB109A-1

PHOTO INFORMATION

Sample ID 522CT22-GB109B-1

PHOTO INFORMATION

Sample ID 522CT22-GB110

PHOTO INFORMATION

Sample ID 522CT22-GB110A-1

PHOTO INFORMATION

Sample ID 522CT22-GB110B-1

PHOTO INFORMATION

Sample ID 522CT22-GB111

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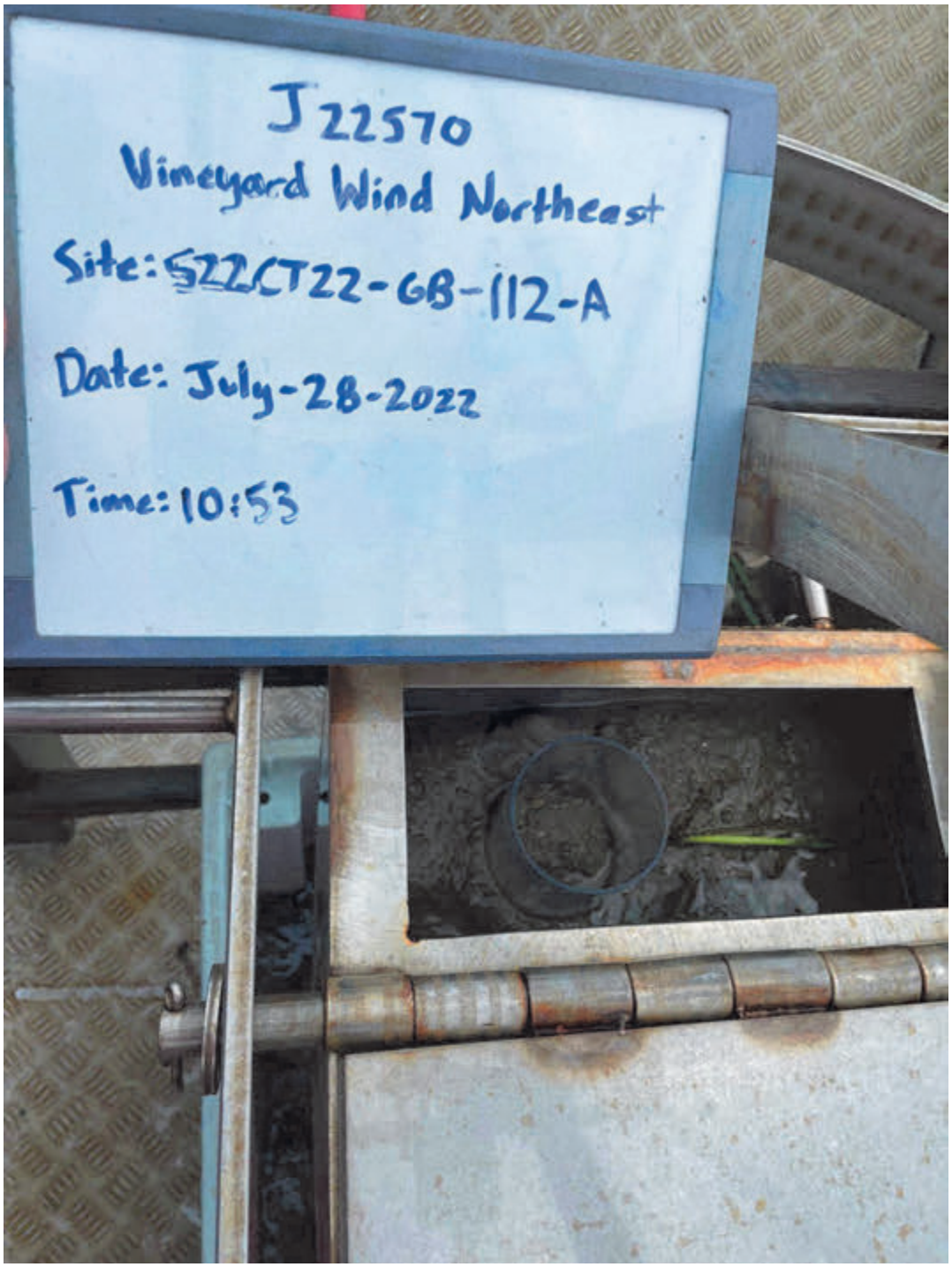
Sample ID 522CT22-GB112A-1



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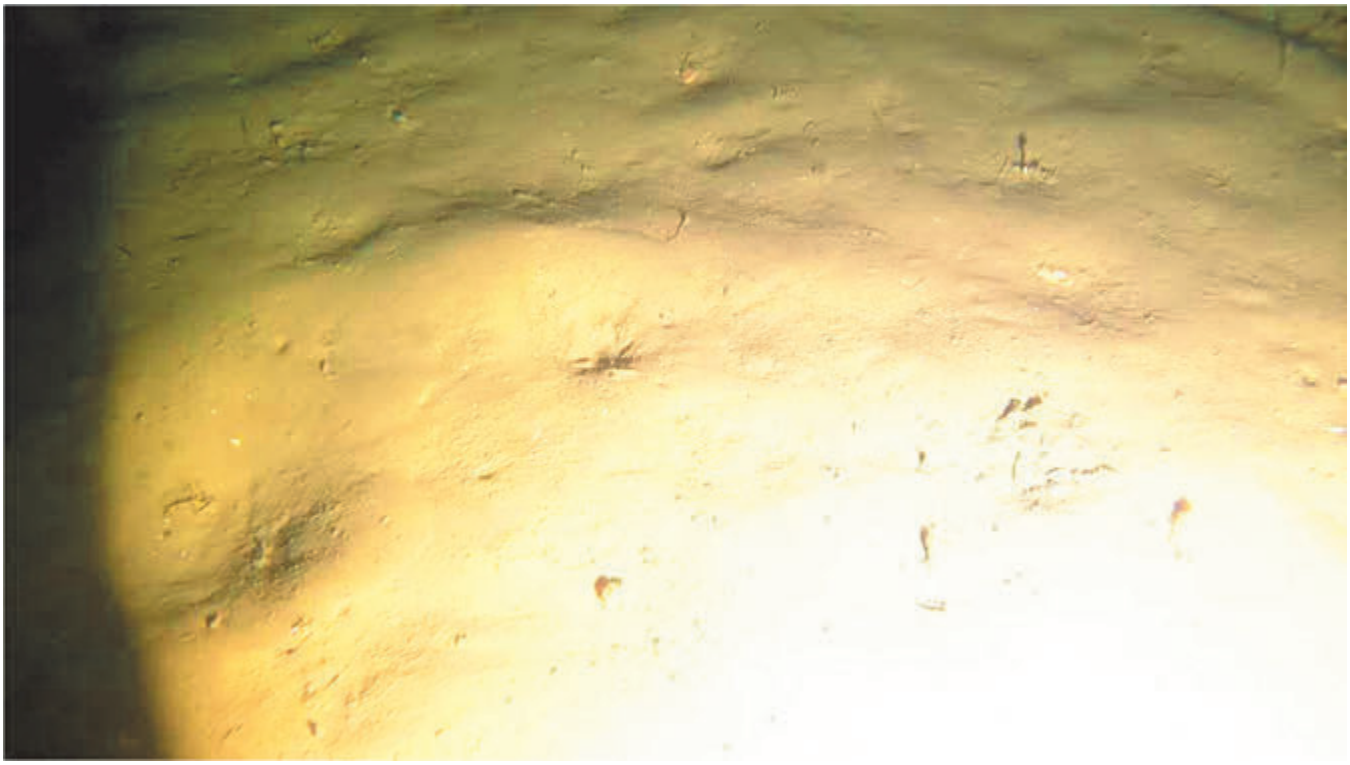
Appendix I-1: Benthic Grab Camera Images: 522 Lease Area

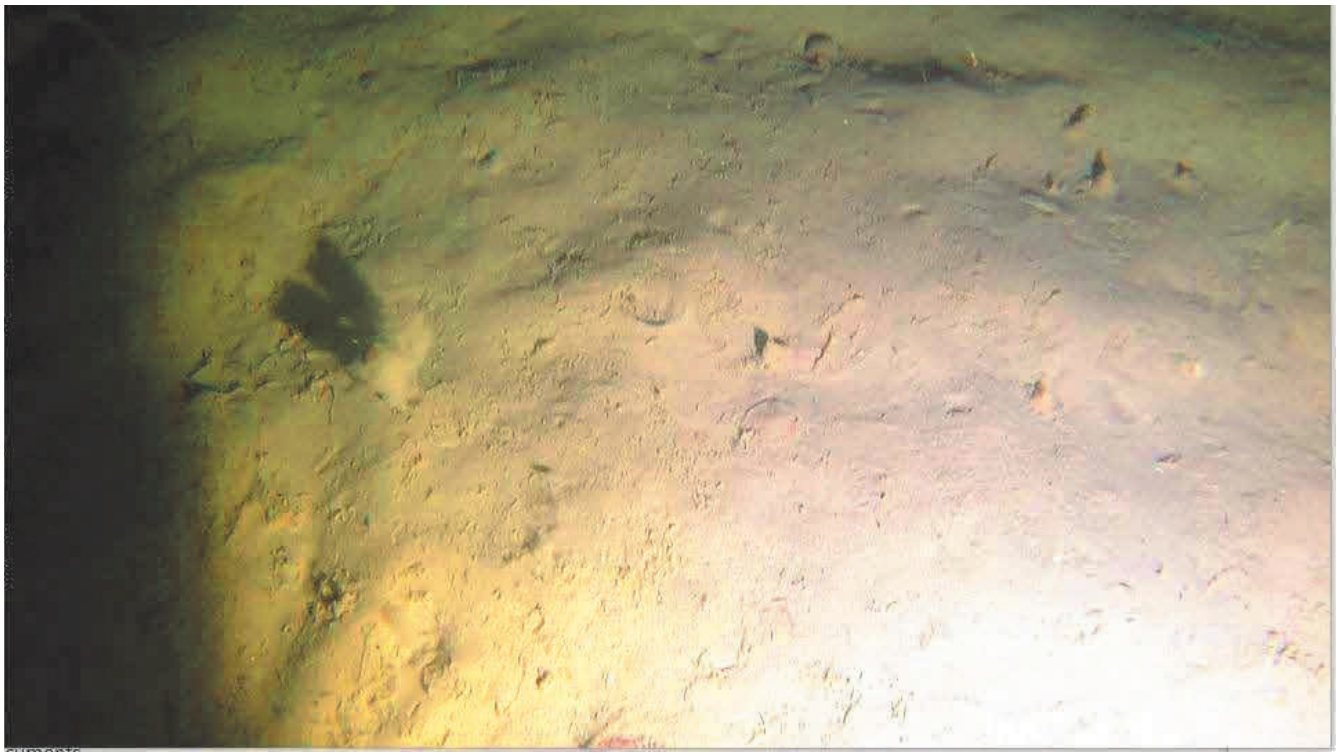
BENTHIC GRAB IMAGE

522LA22-GB001-1



BENTHIC GRAB IMAGE

522LA22-GB004-1



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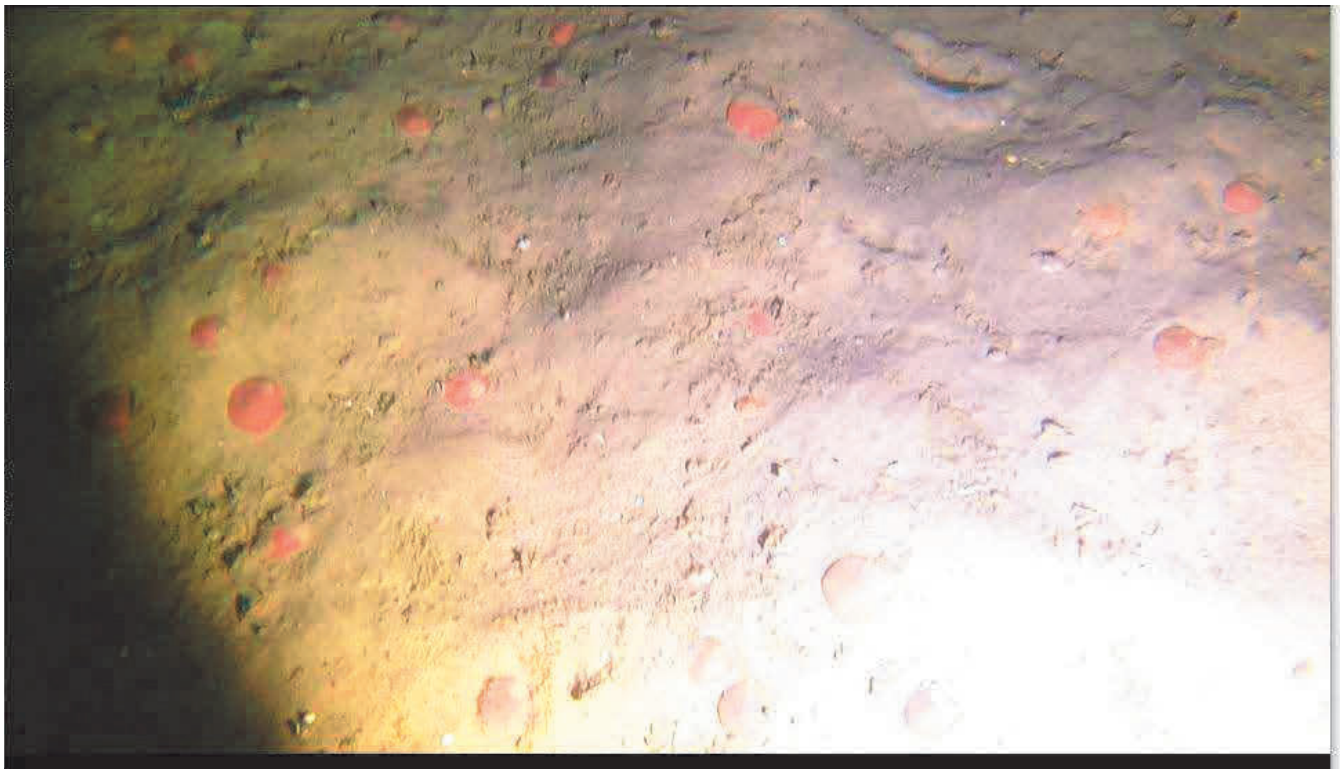
522LA22-GB6-1

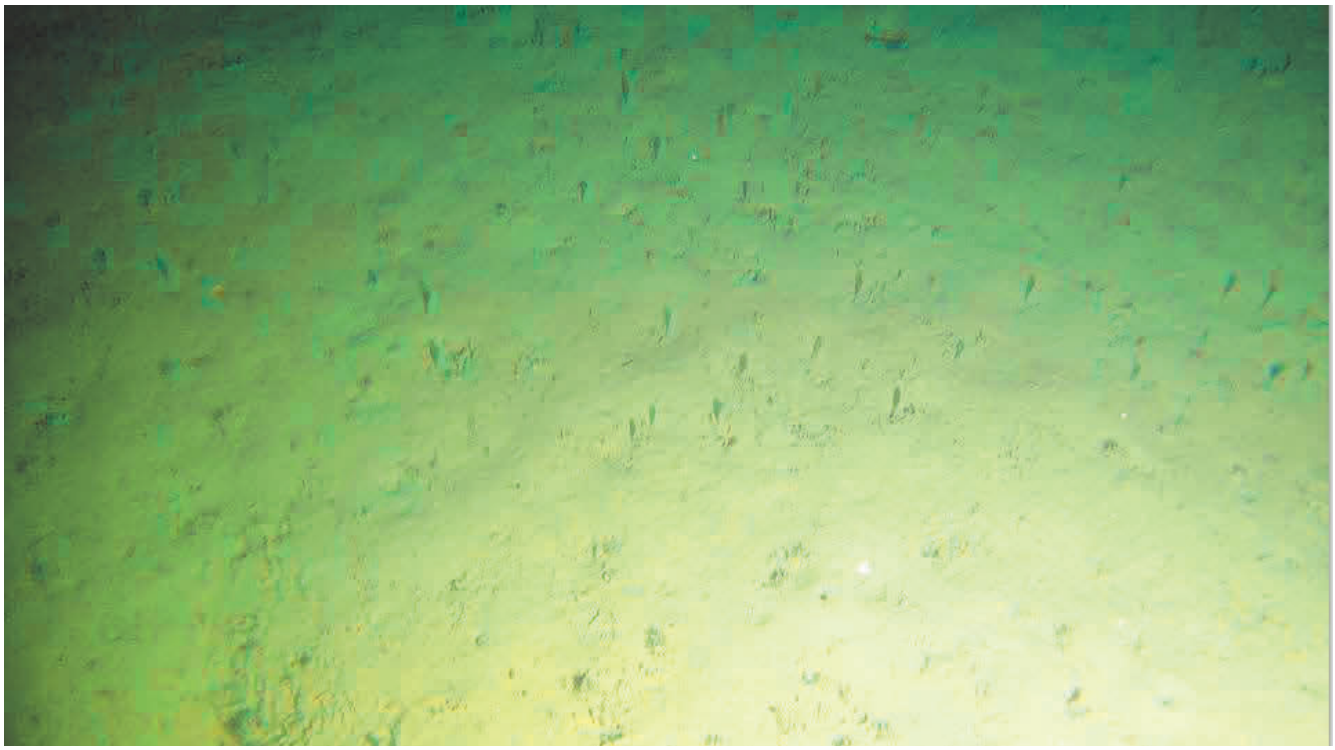


BENTHIC GRAB IMAGE

522LA22-GB7-1

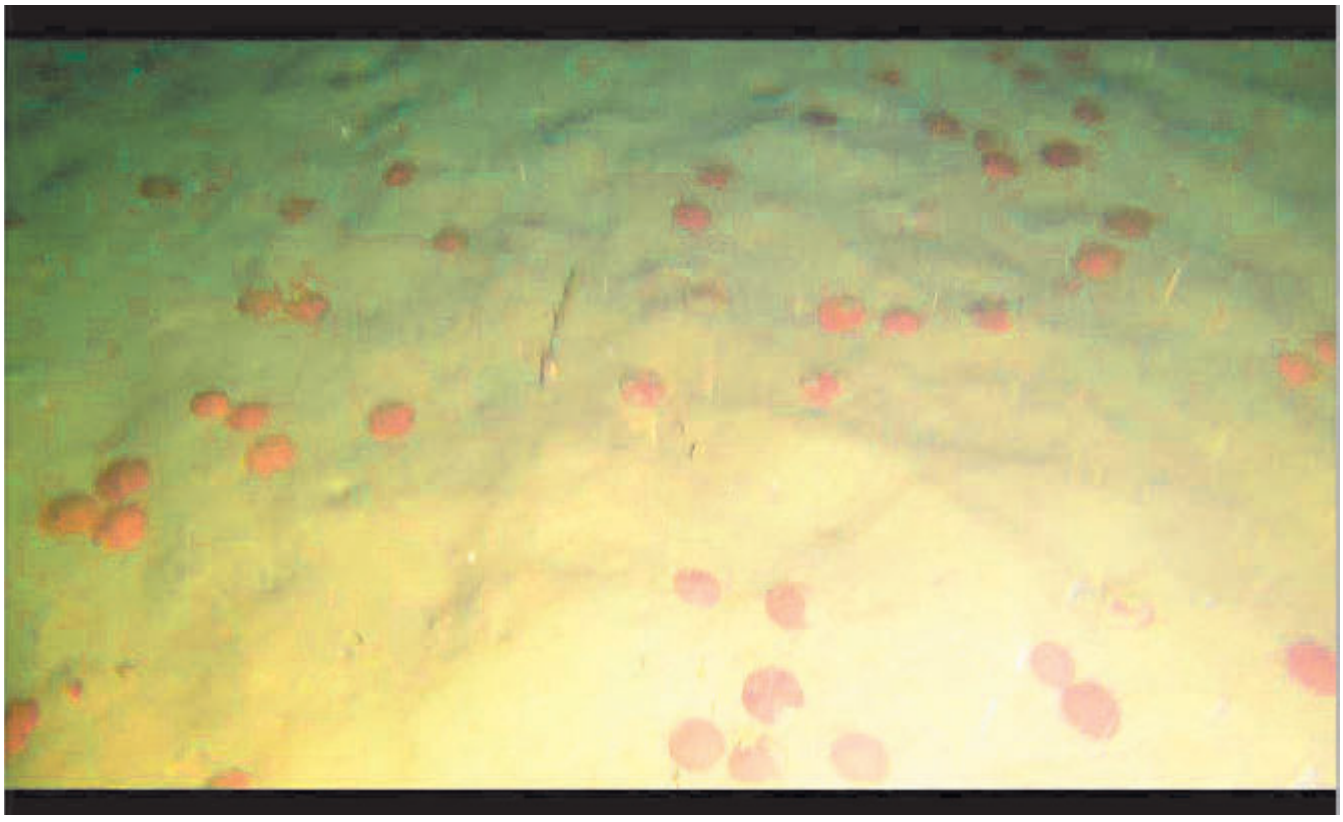
BENTHIC GRAB IMAGE

522LA22-GB9-1



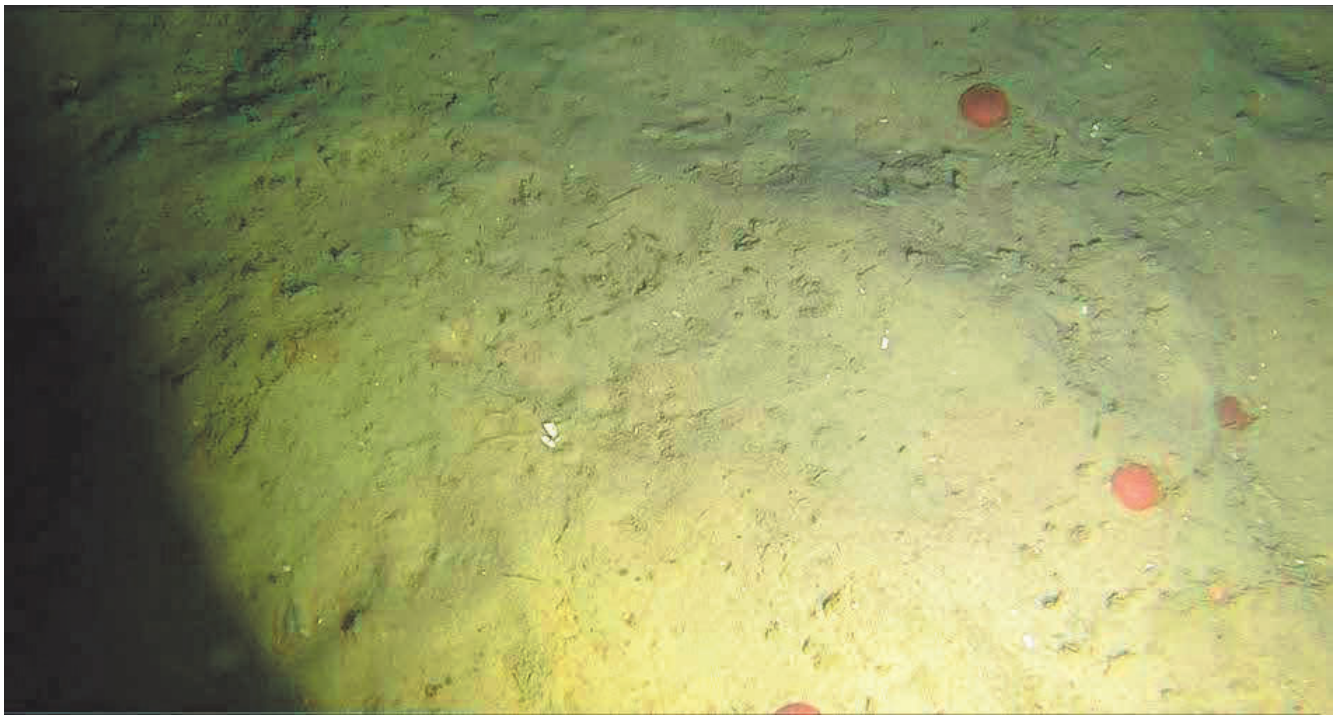
BENTHIC GRAB IMAGE

522LA22-GB10-1



BENTHIC GRAB IMAGE

522LA22-GB012-1



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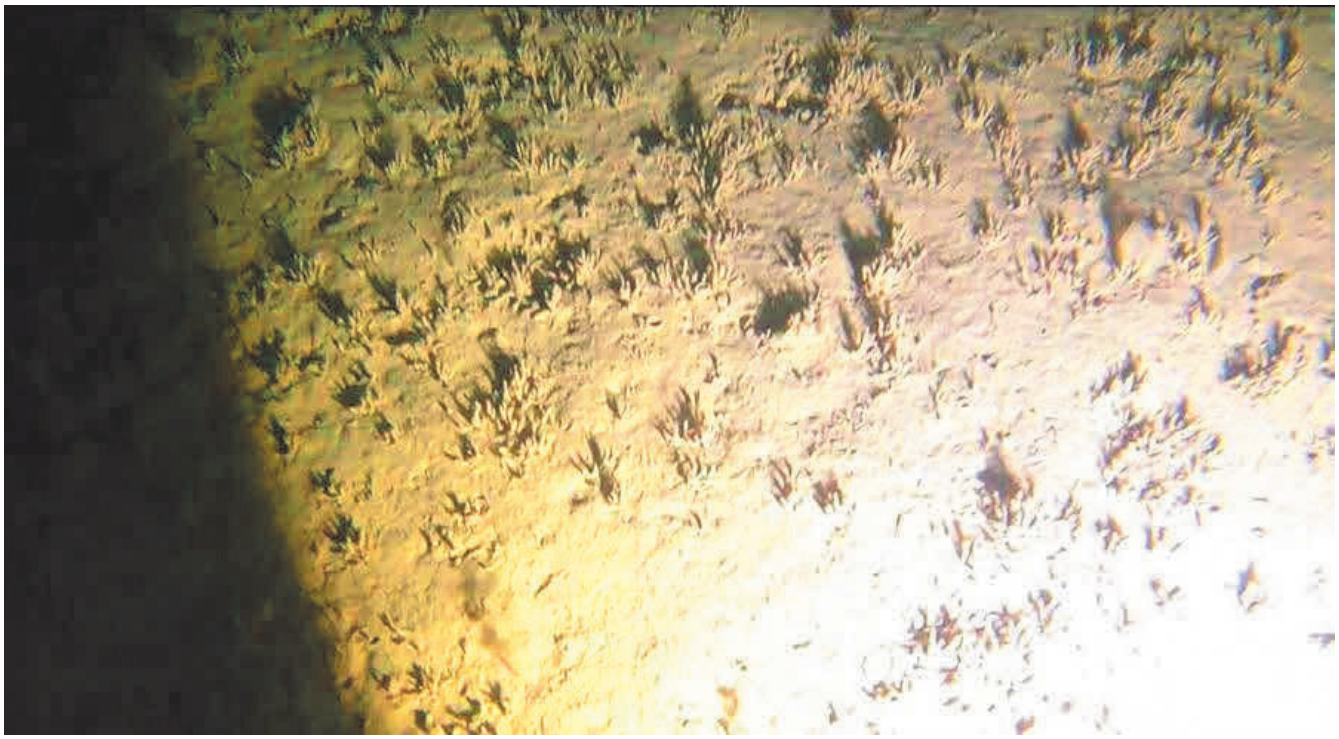
522LA22-GB16-1



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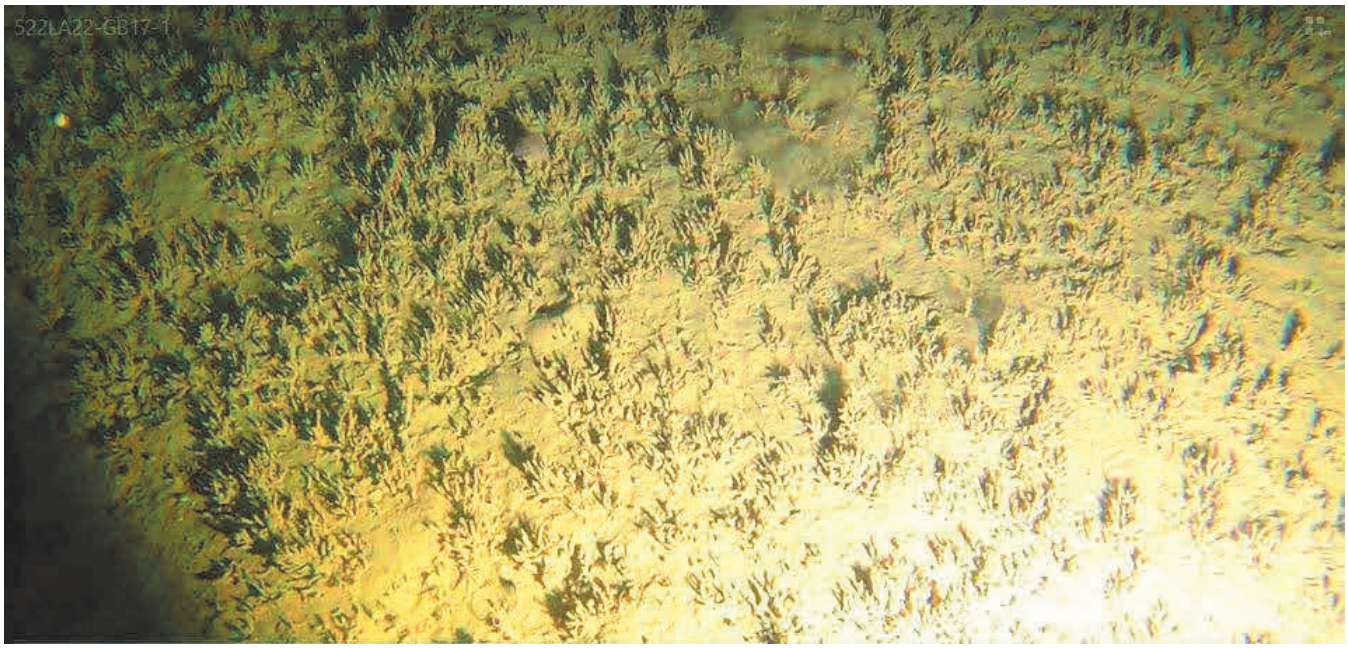
522LA22-GB17-1



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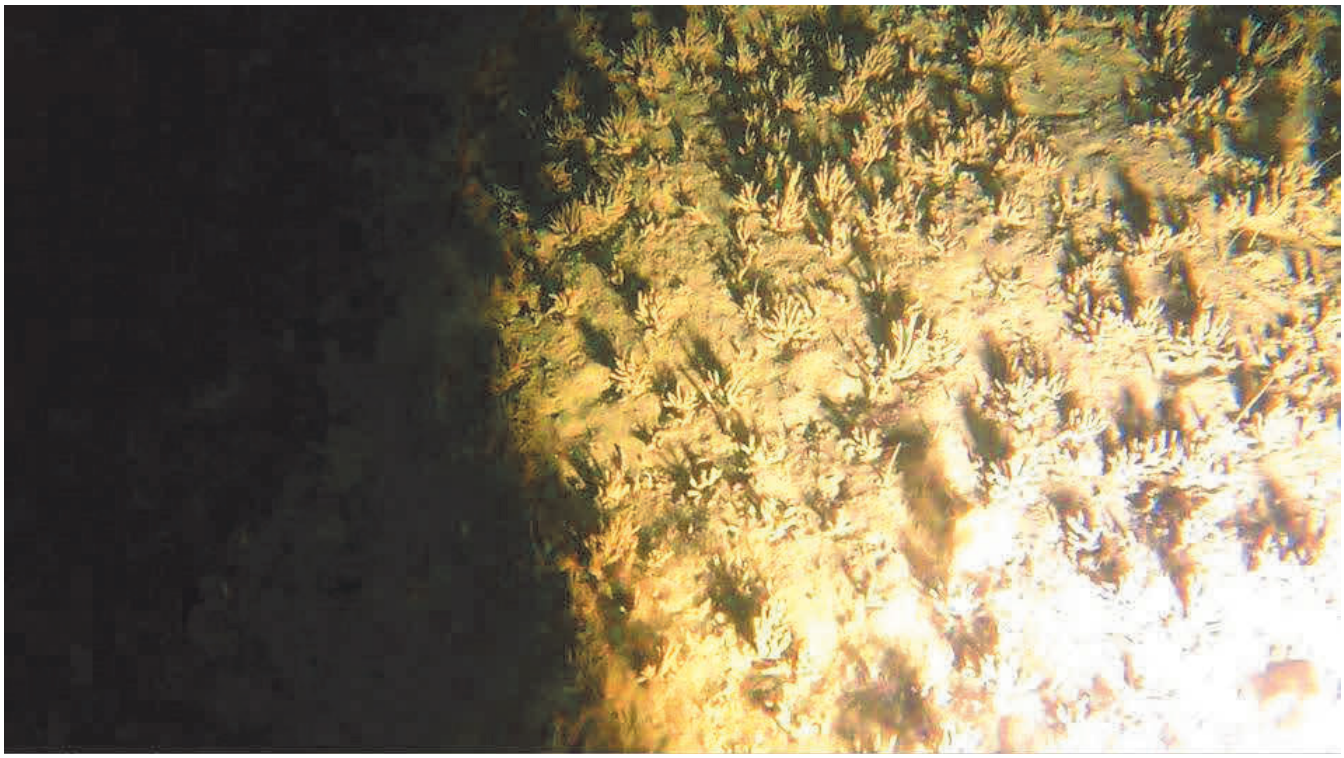
522LA22-GB18-1



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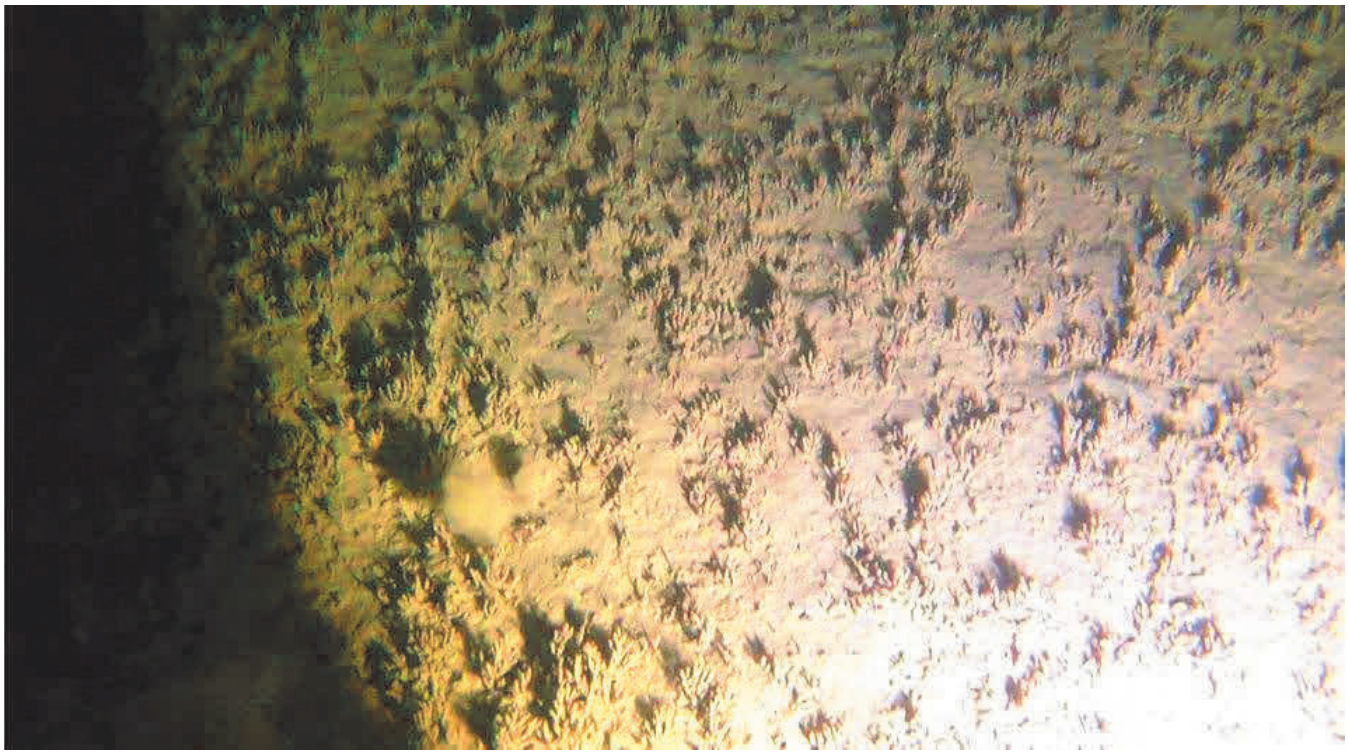
522LA22-GB19-1



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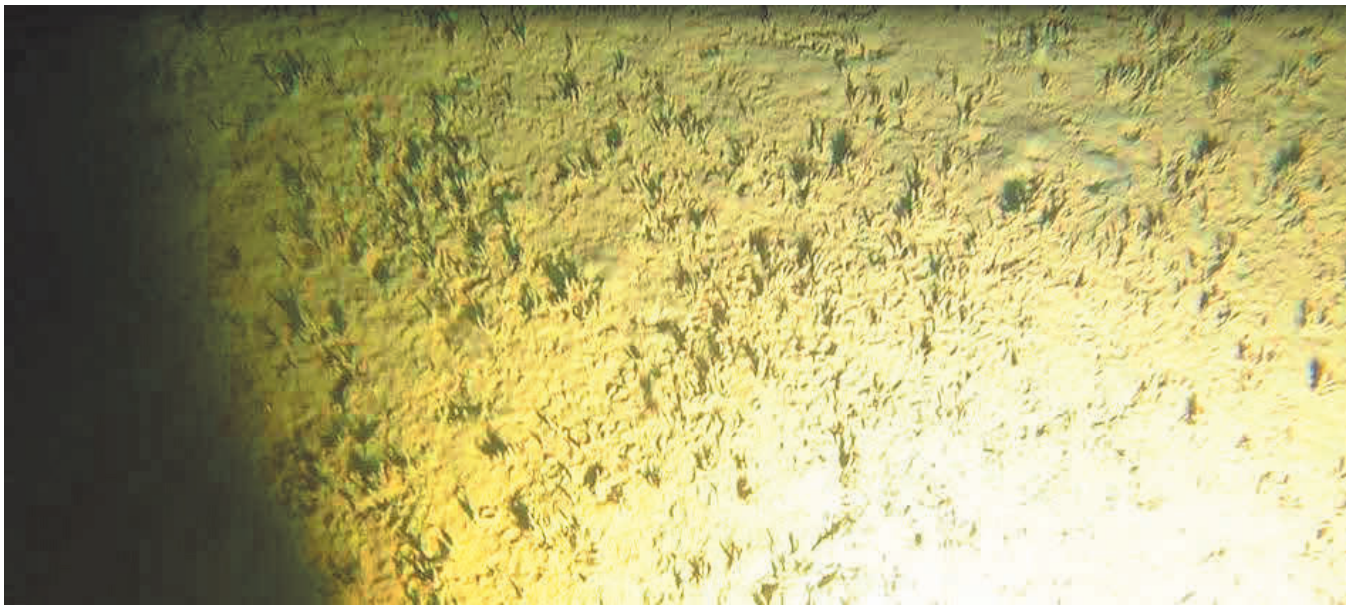
522LA22-GB20-1



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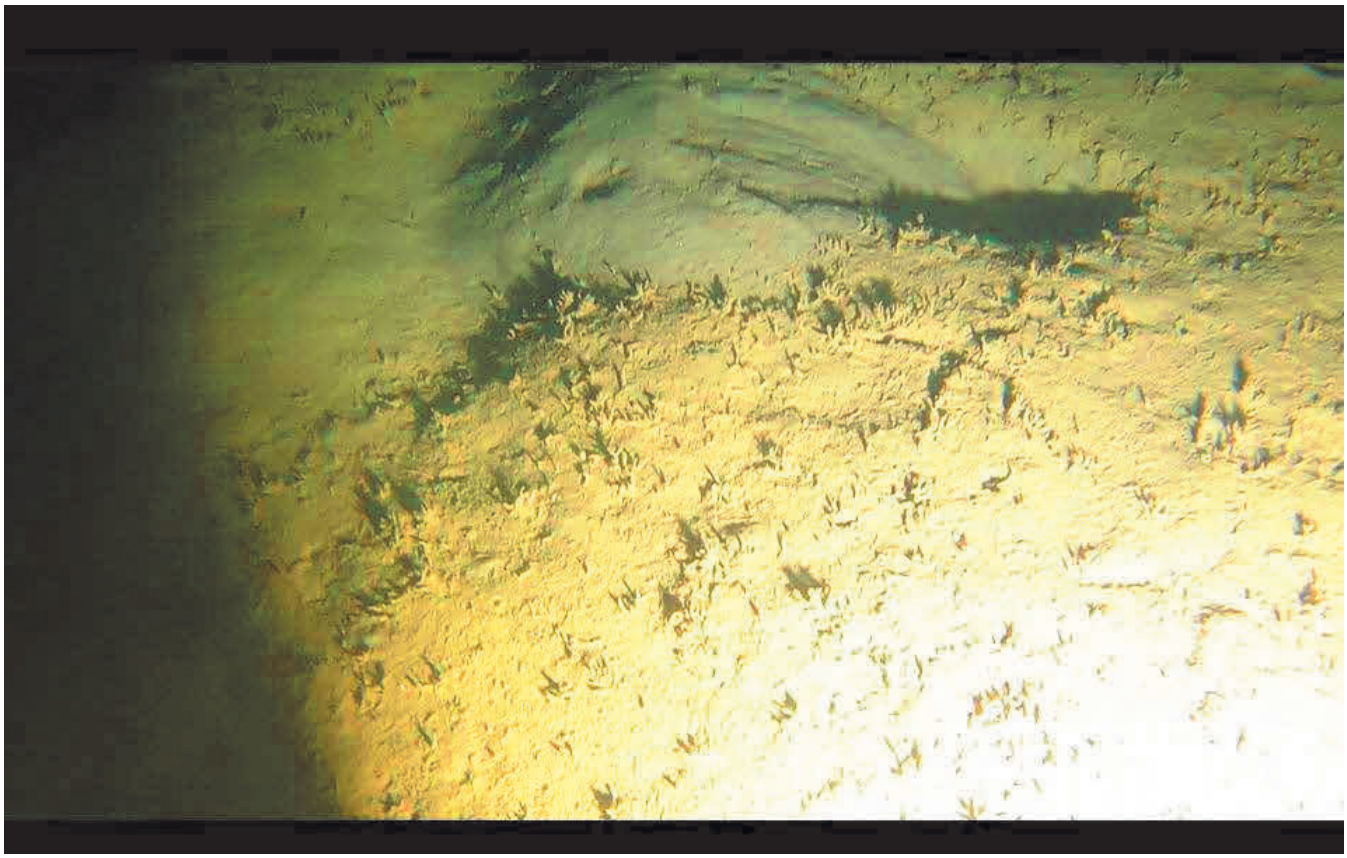

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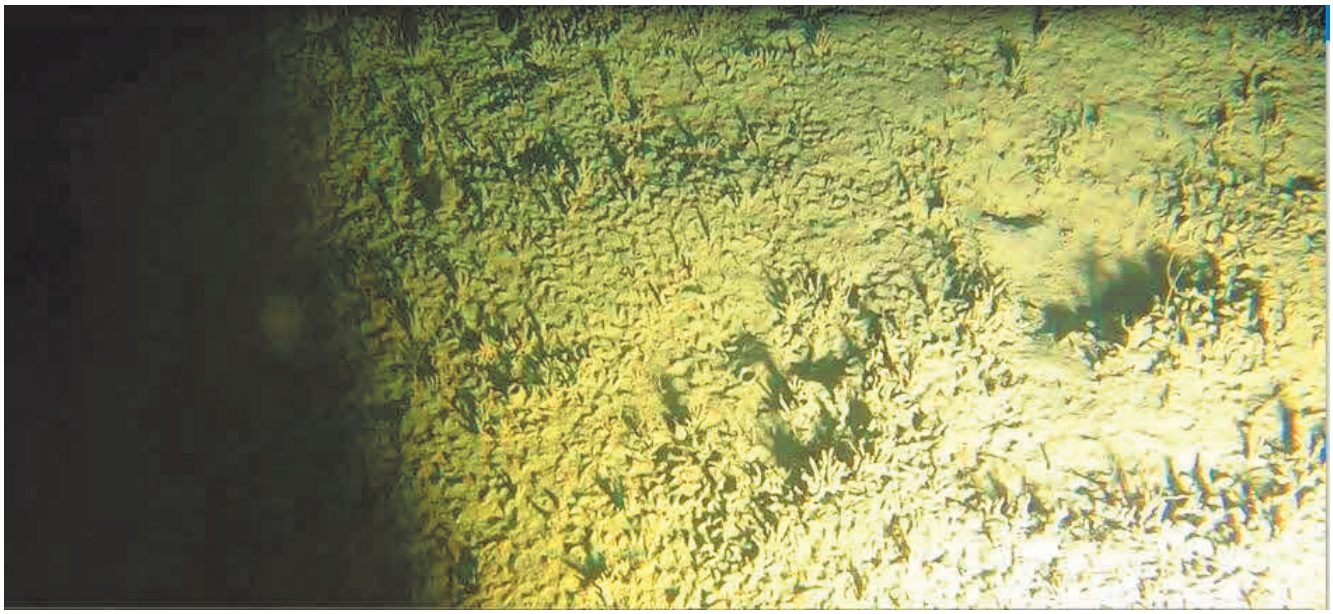
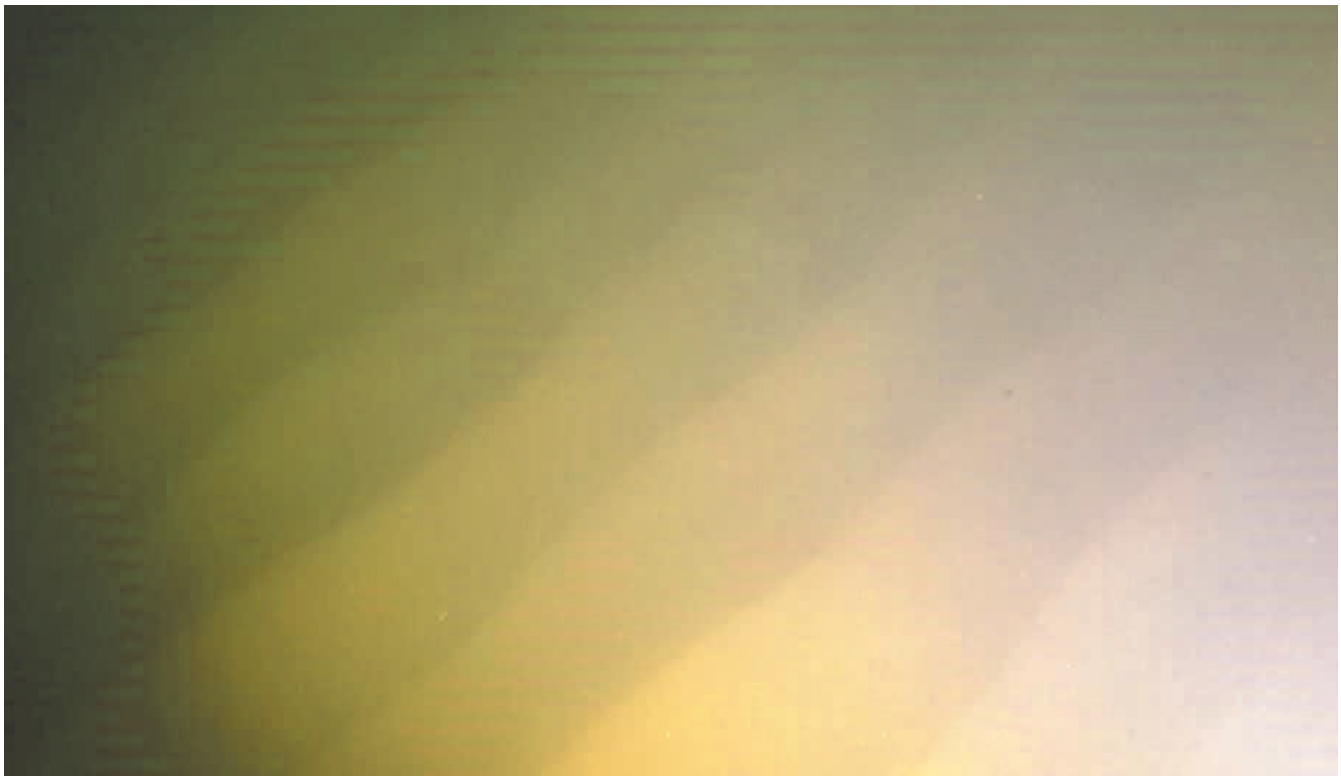
522LA22-GB22-1



Appendix I-2: Benthic Grab Camera Images: MA OECC

BENTHIC GRAB IMAGE

522MA22-GB003-3



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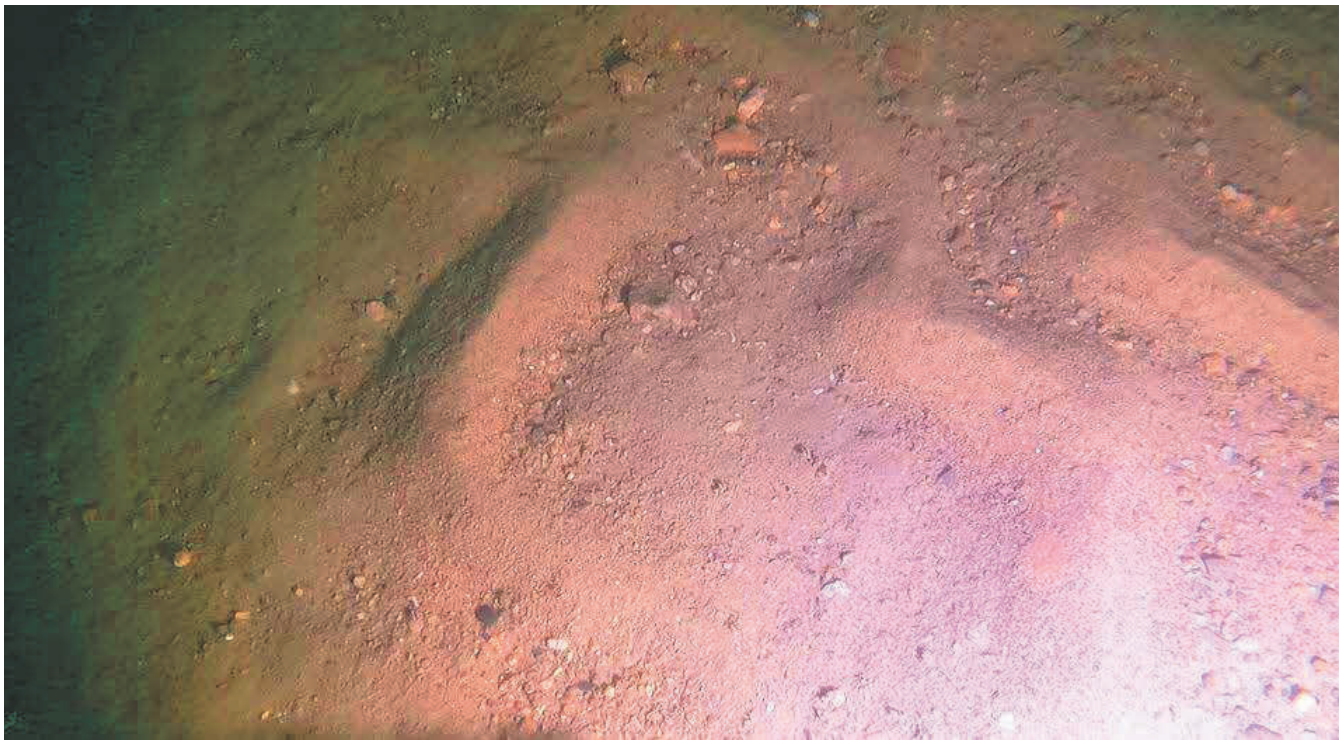
522MA22-GB007-1



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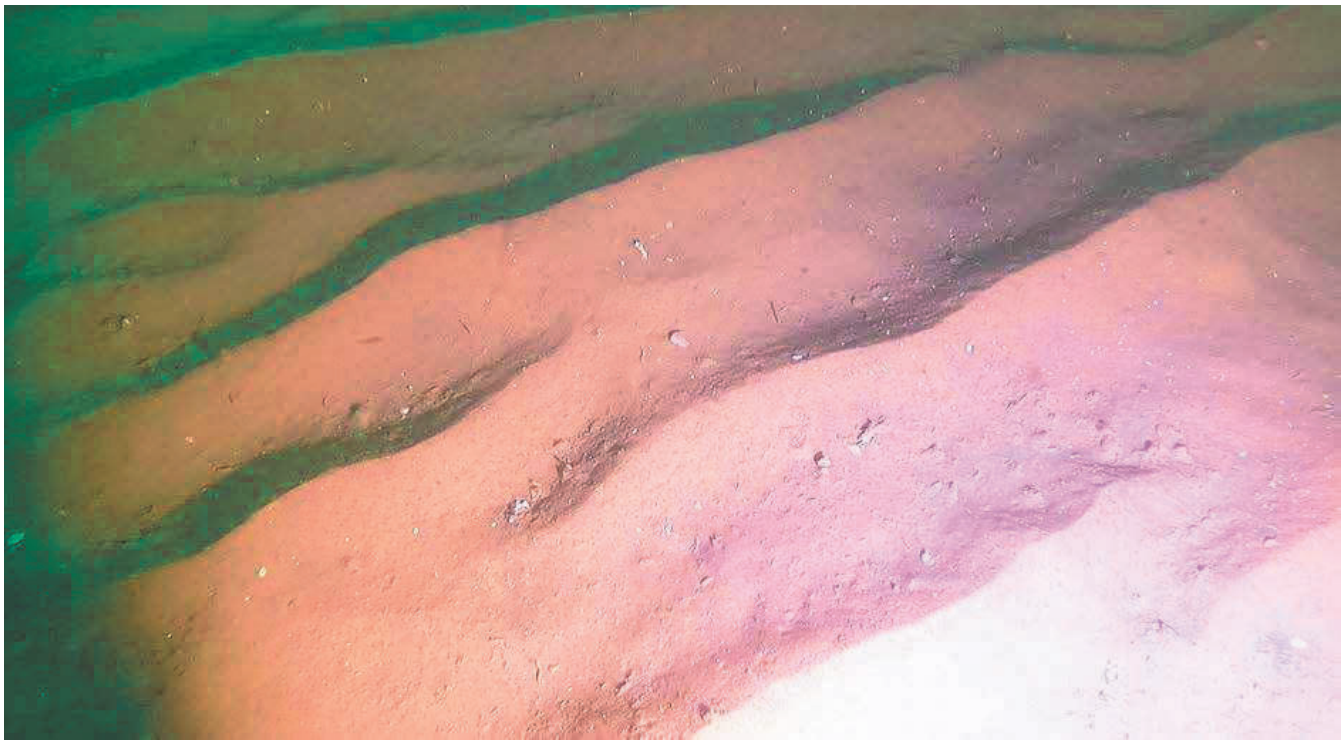
522MA22-GB009-1



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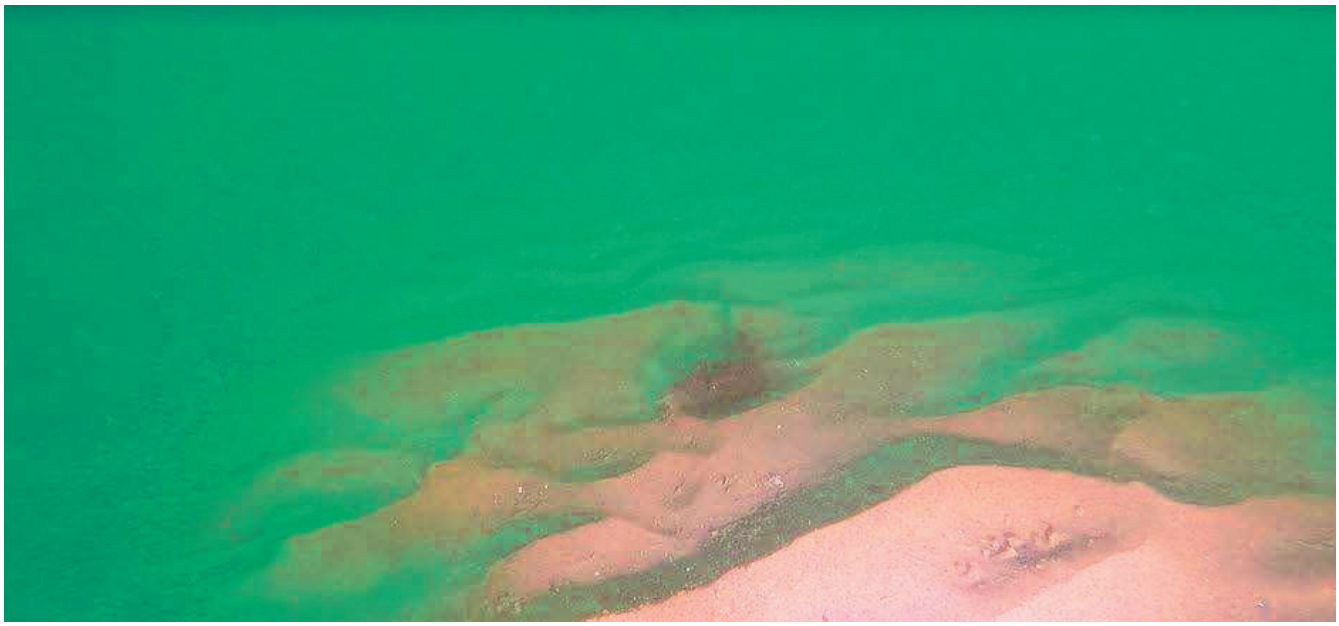
522MA22-GB011-1

BENTHIC GRAB IMAGE

522MA22-GB013-1



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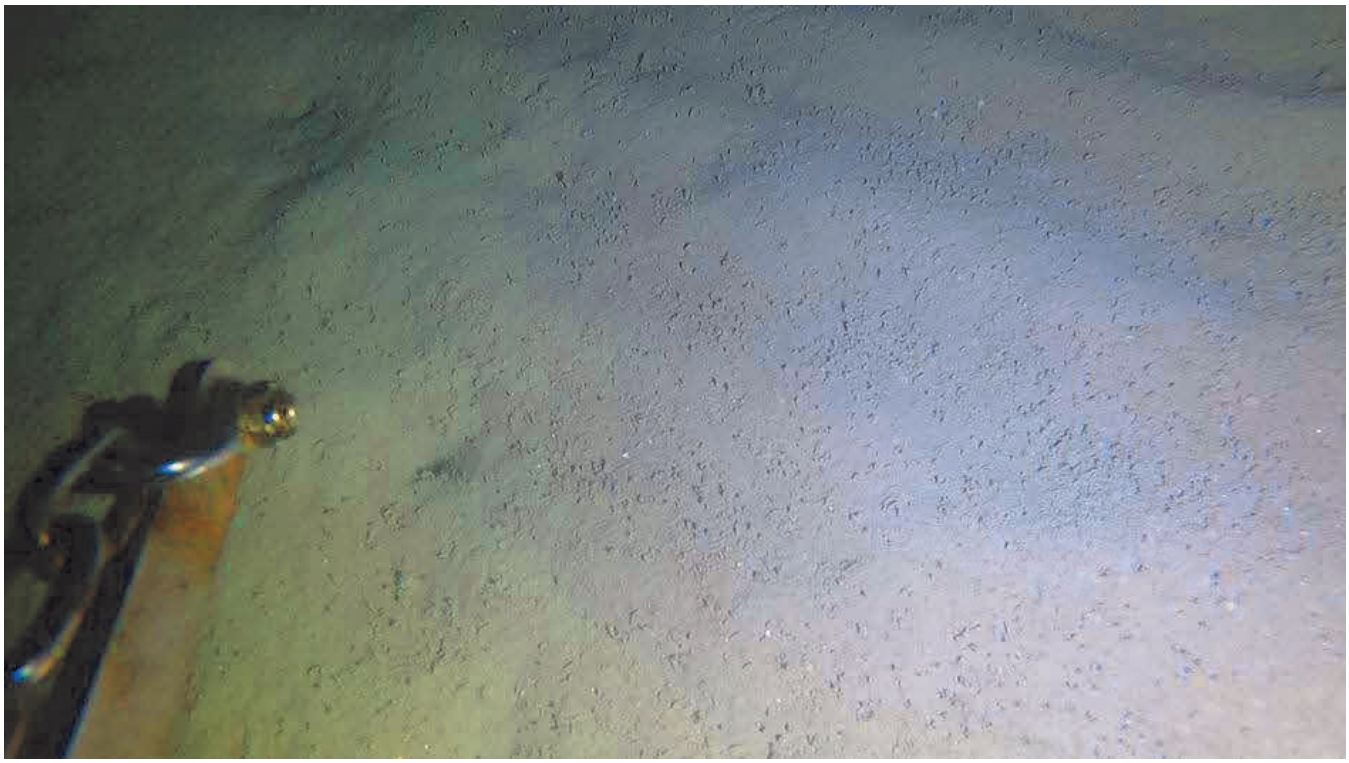
522MA22-GB017-1



BENTHIC GRAB IMAGE

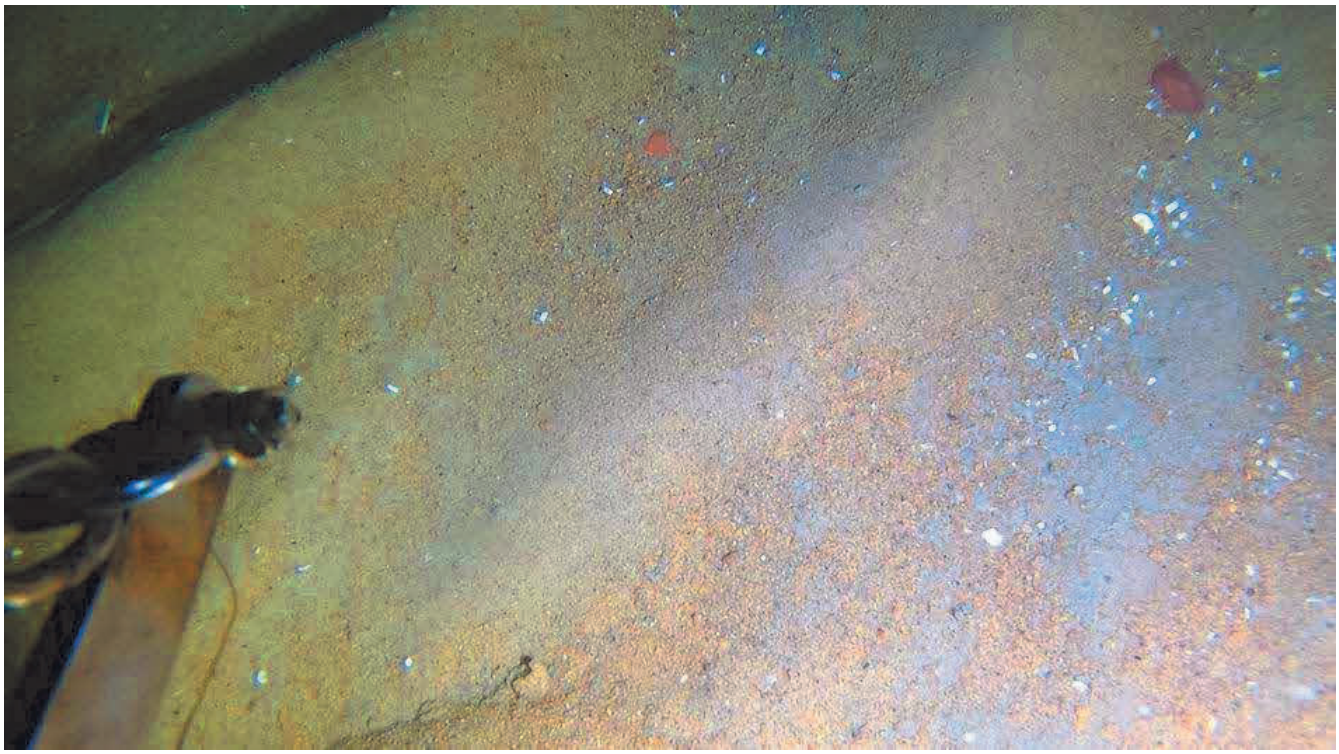
522MA22-GB021-1

BENTHIC GRAB IMAGE

522MA22-GB023-1

BENTHIC GRAB IMAGE

522MA22-GB027-1



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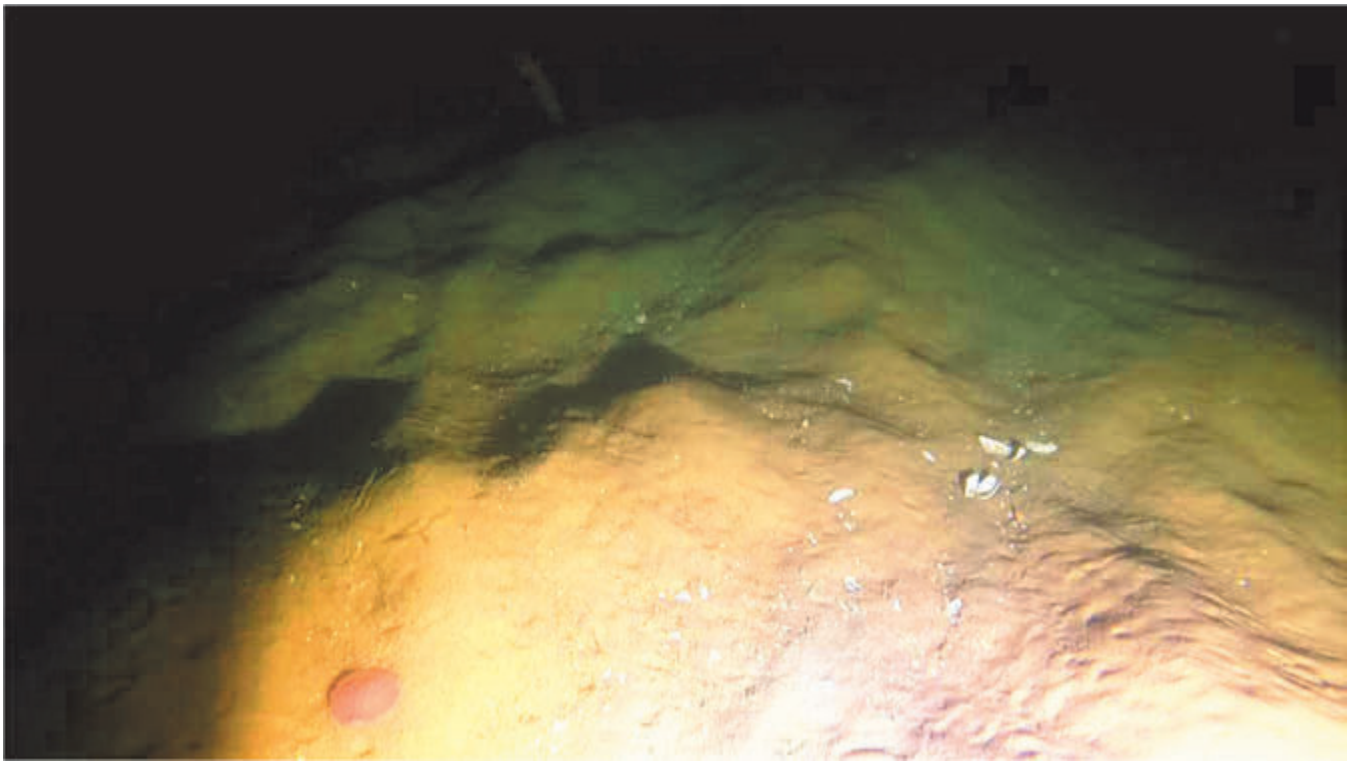
522MA22-GB029-4



BENTHIC GRAB IMAGE

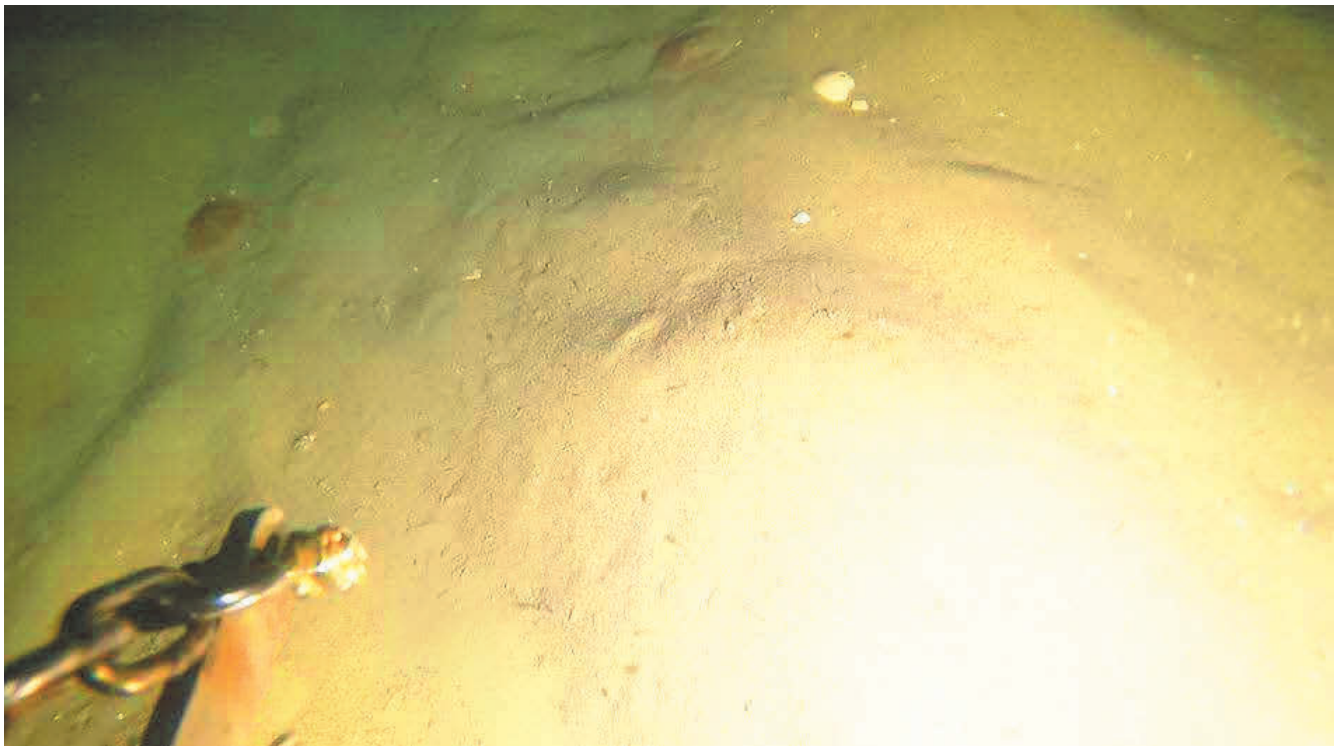
522MA22-GB031-2

BENTHIC GRAB IMAGE

522MA22-GB033-1

BENTHIC GRAB IMAGE

522MA22-GB035-2

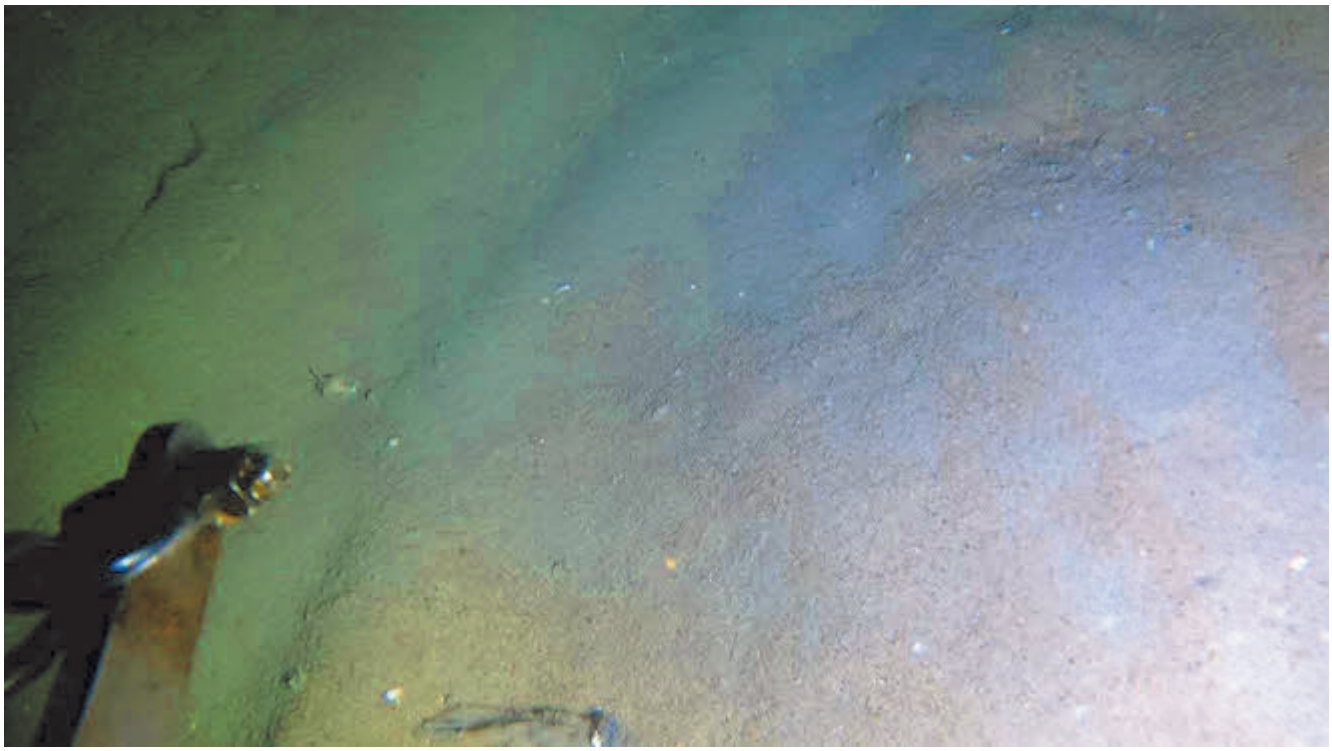


BENTHIC GRAB IMAGE

522MA22-GB037-1

BENTHIC GRAB IMAGE

522MA22-GB039-4



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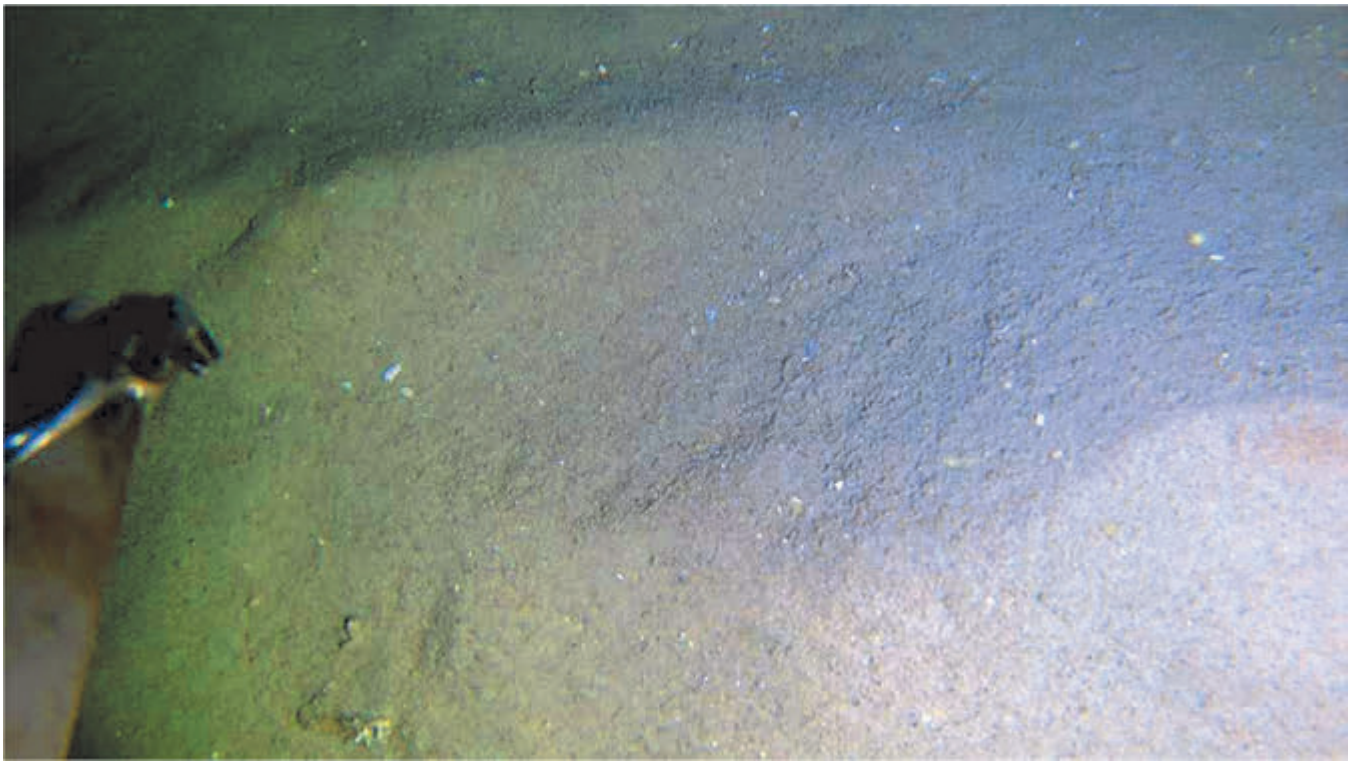
522MA22-GB041-1



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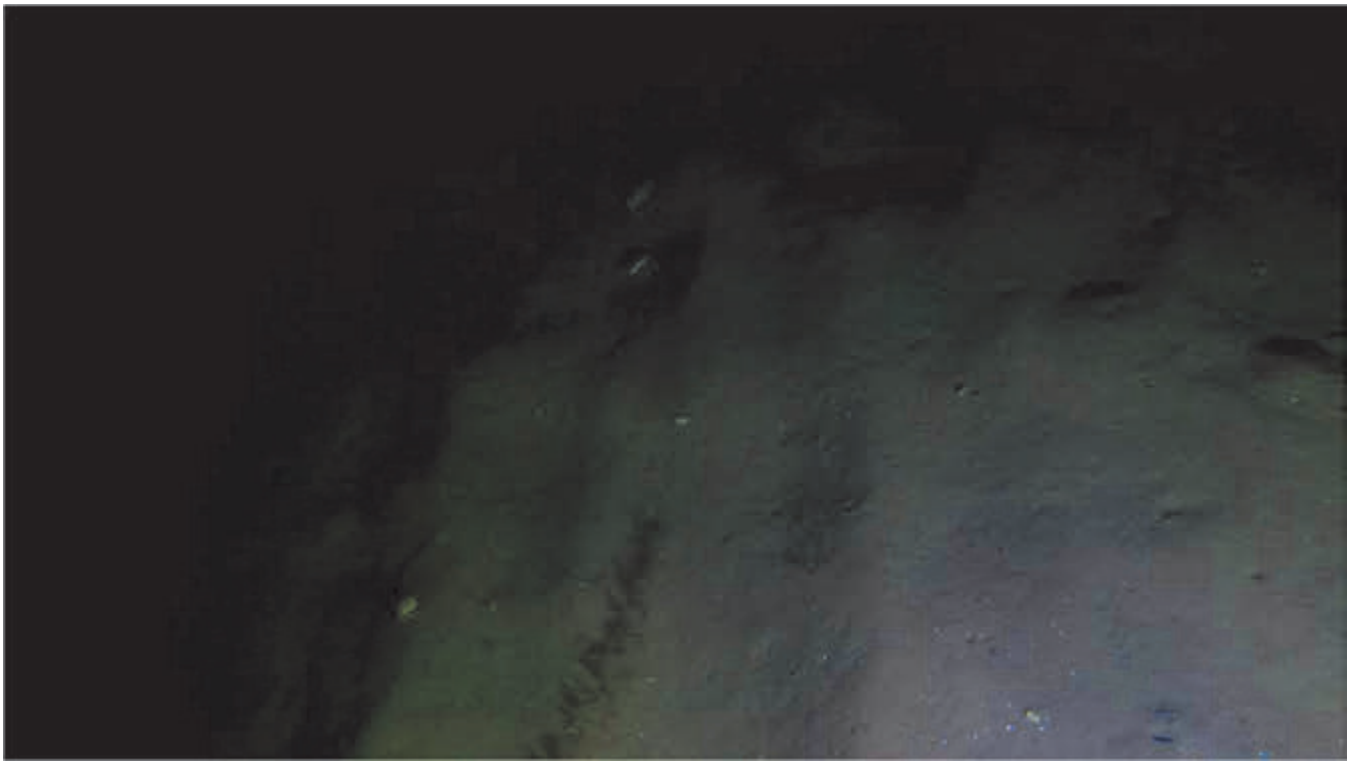

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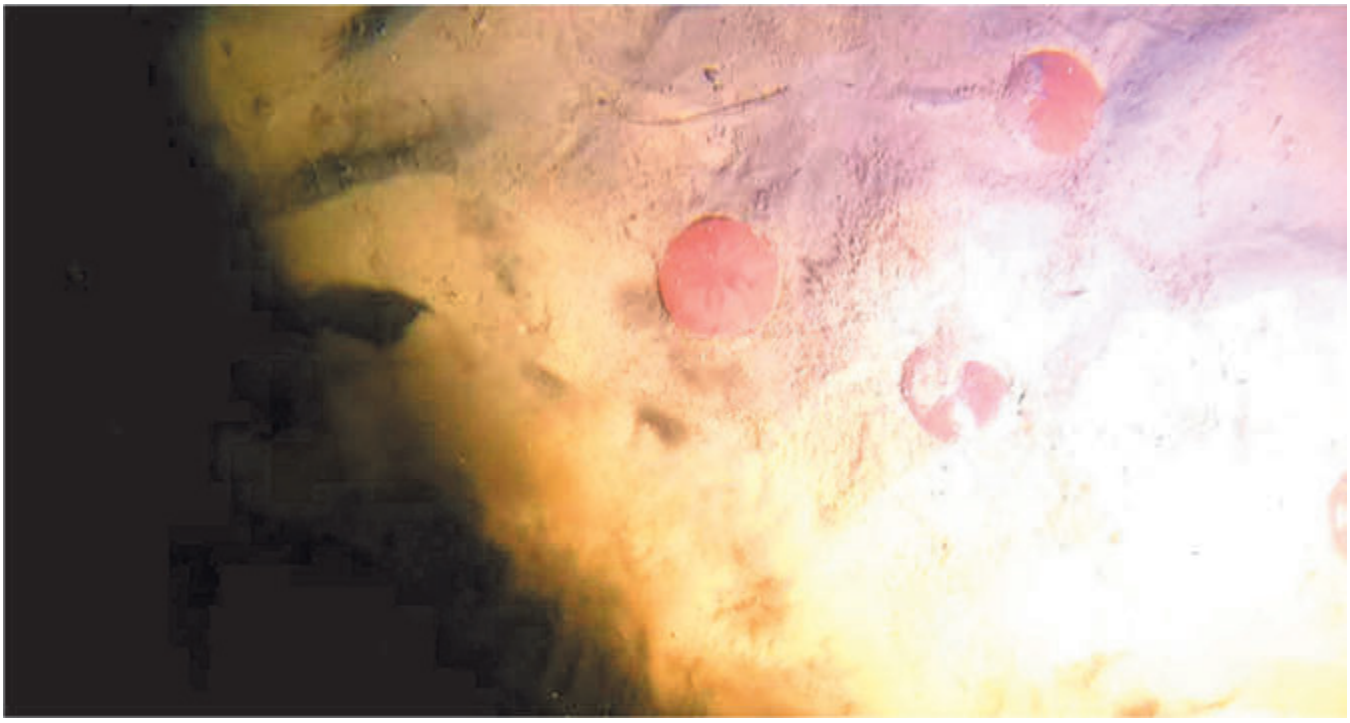

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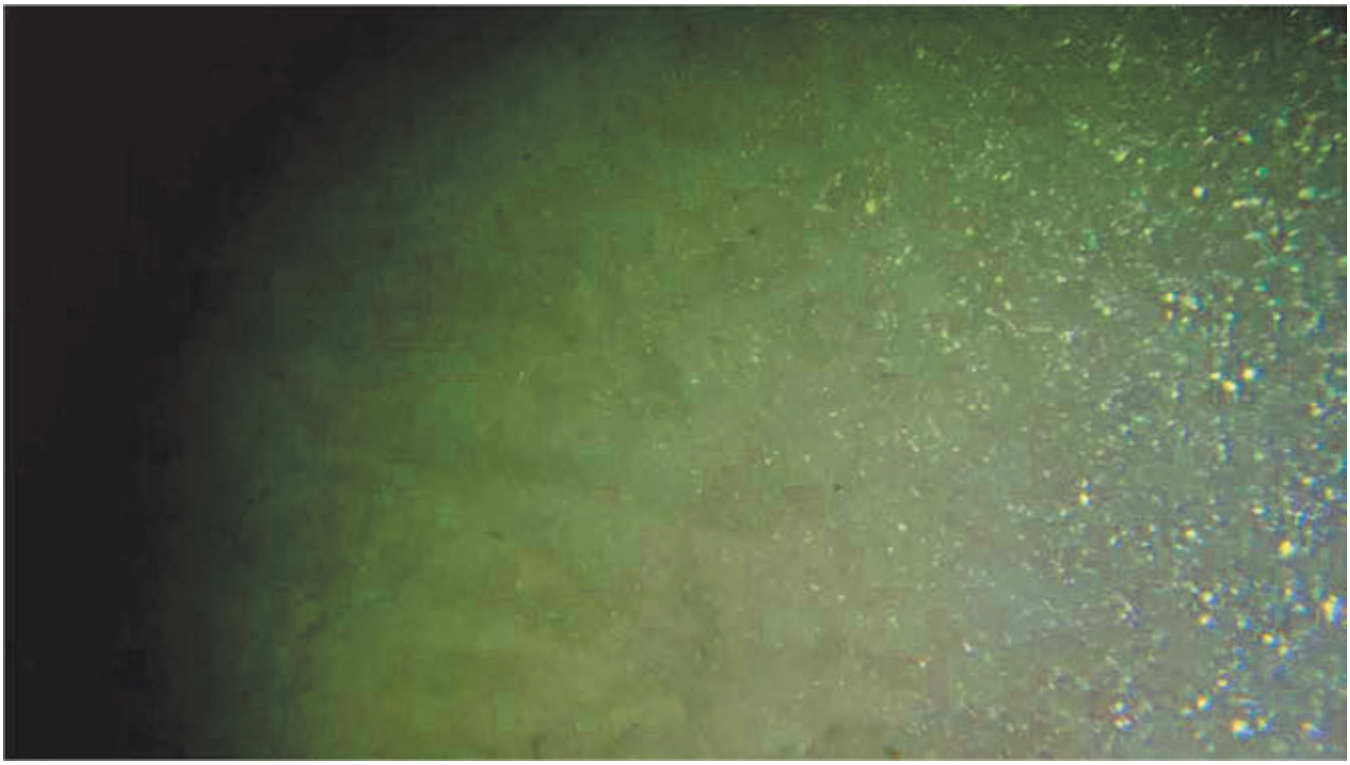
522MA22-GB049A-1



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522MA22-GB052A-1

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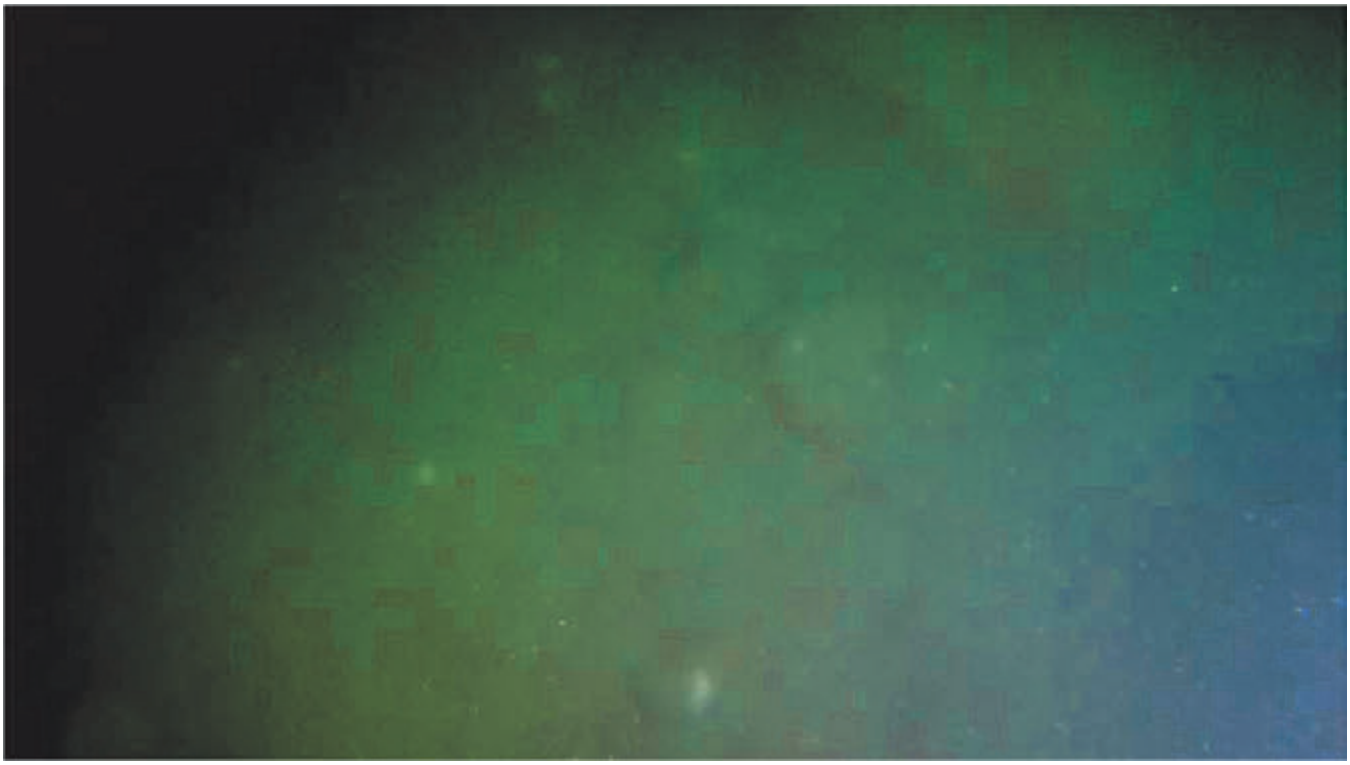
522MA22-GB055A-2



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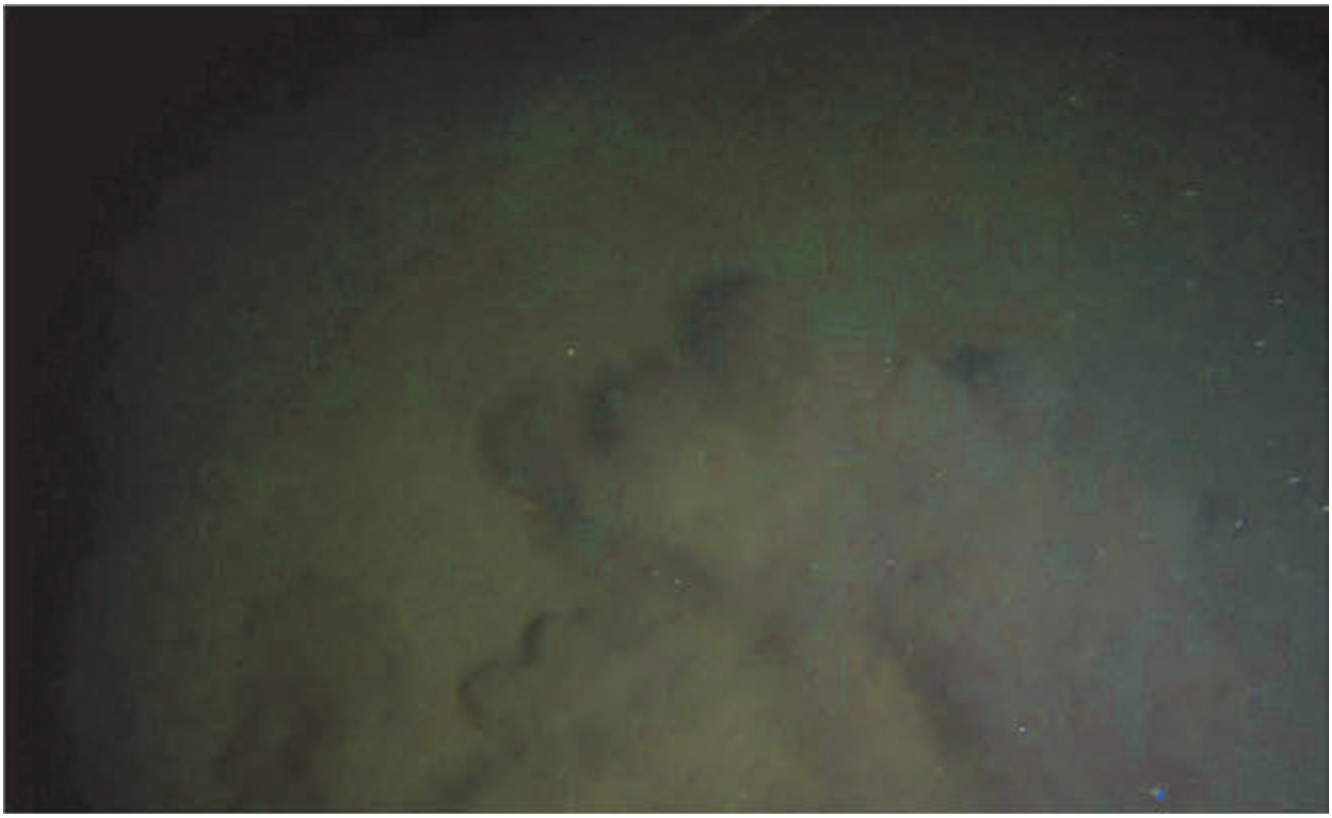
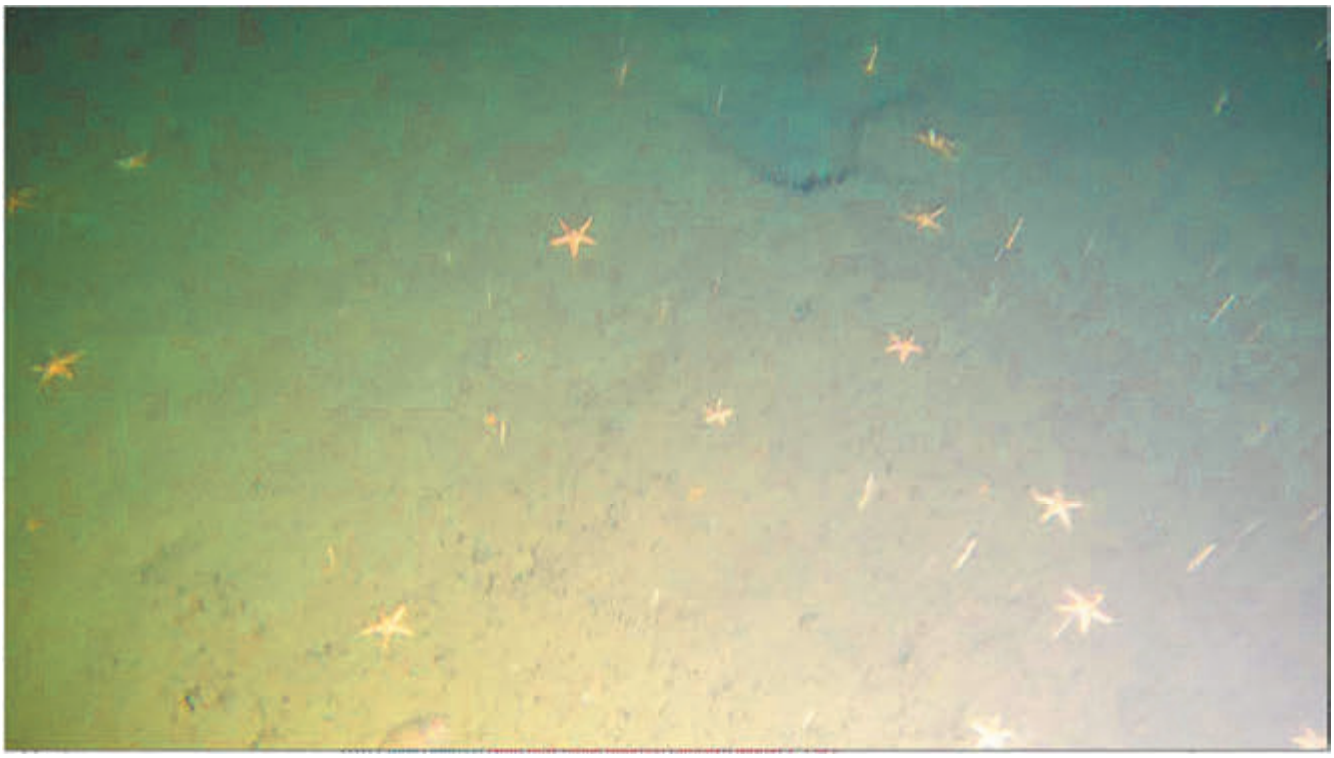
522MA22-GB057A-1



Appendix I-3: Benthic Grab Camera Images: CT OECC

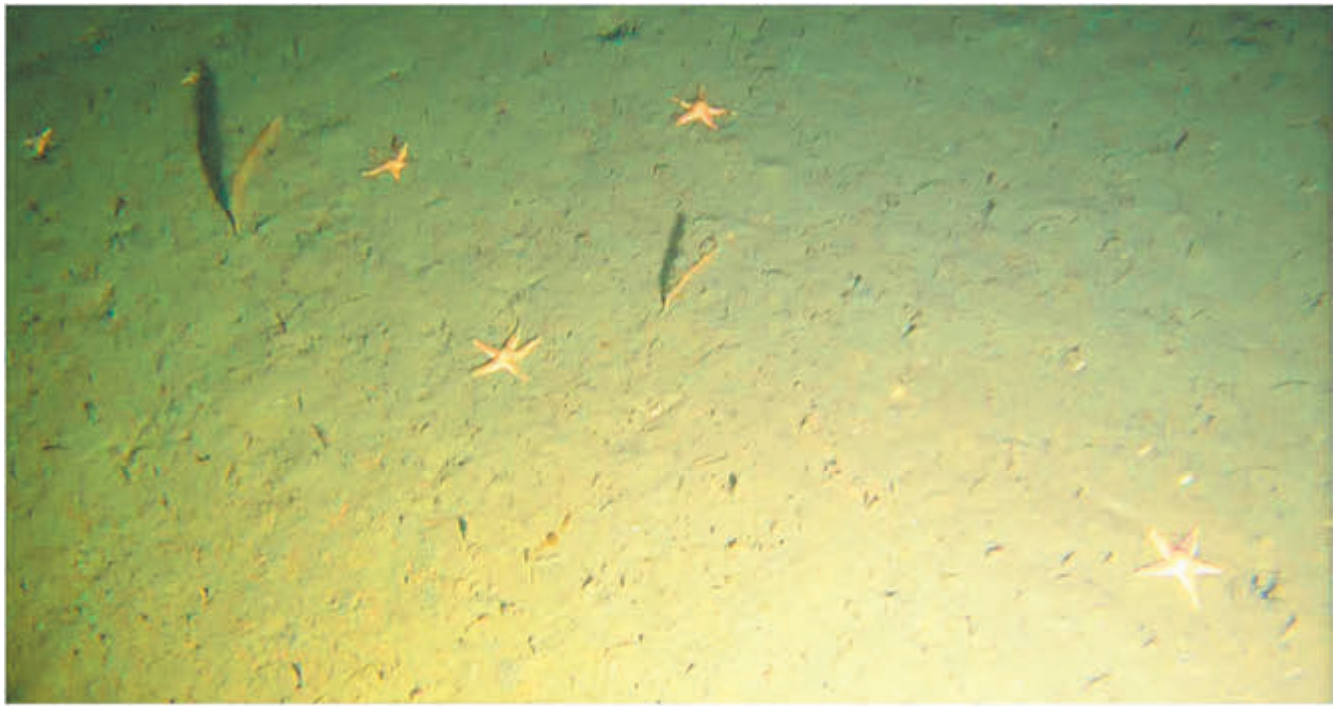
BENTHIC GRAB IMAGE

522CT22-GB002-1



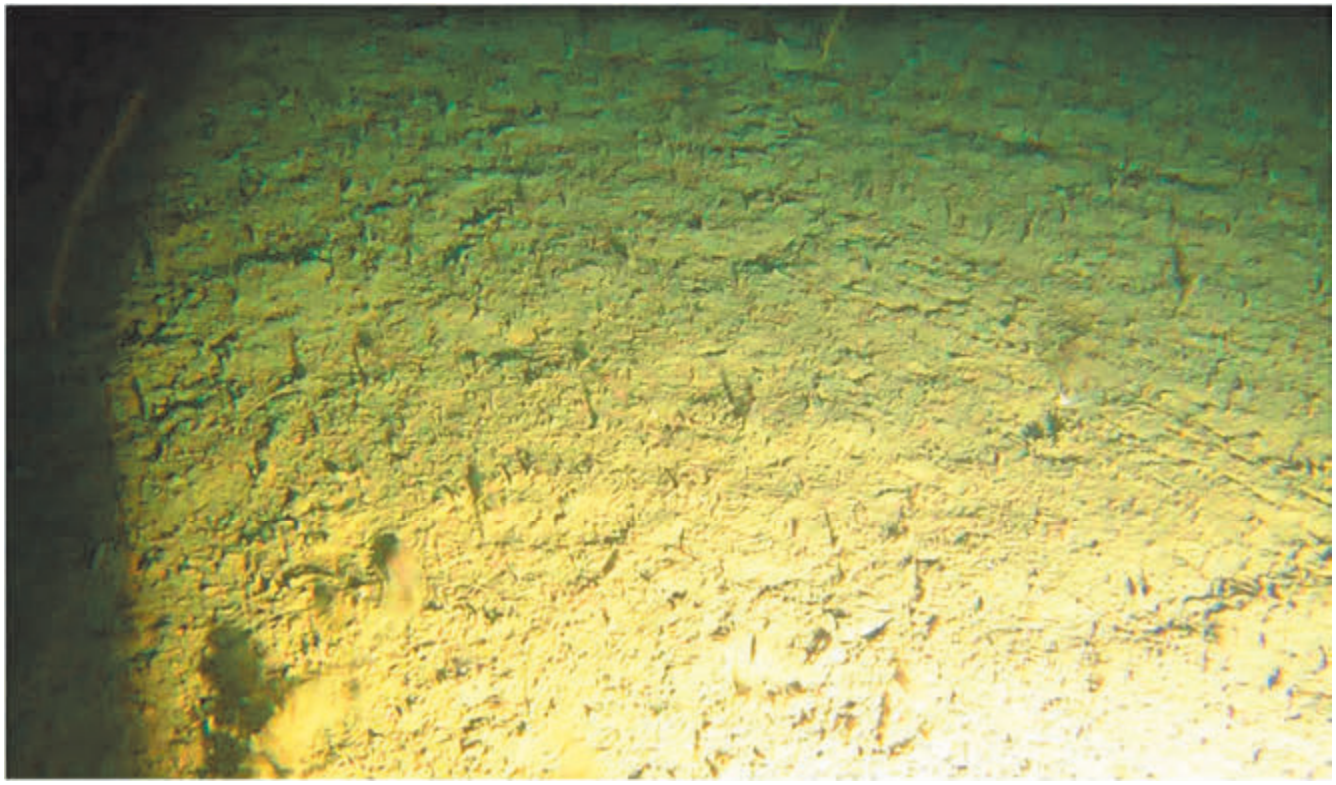
BENTHIC GRAB IMAGE

522CT22-GB004-1



BENTHIC GRAB IMAGE

522CT22-GB006-1



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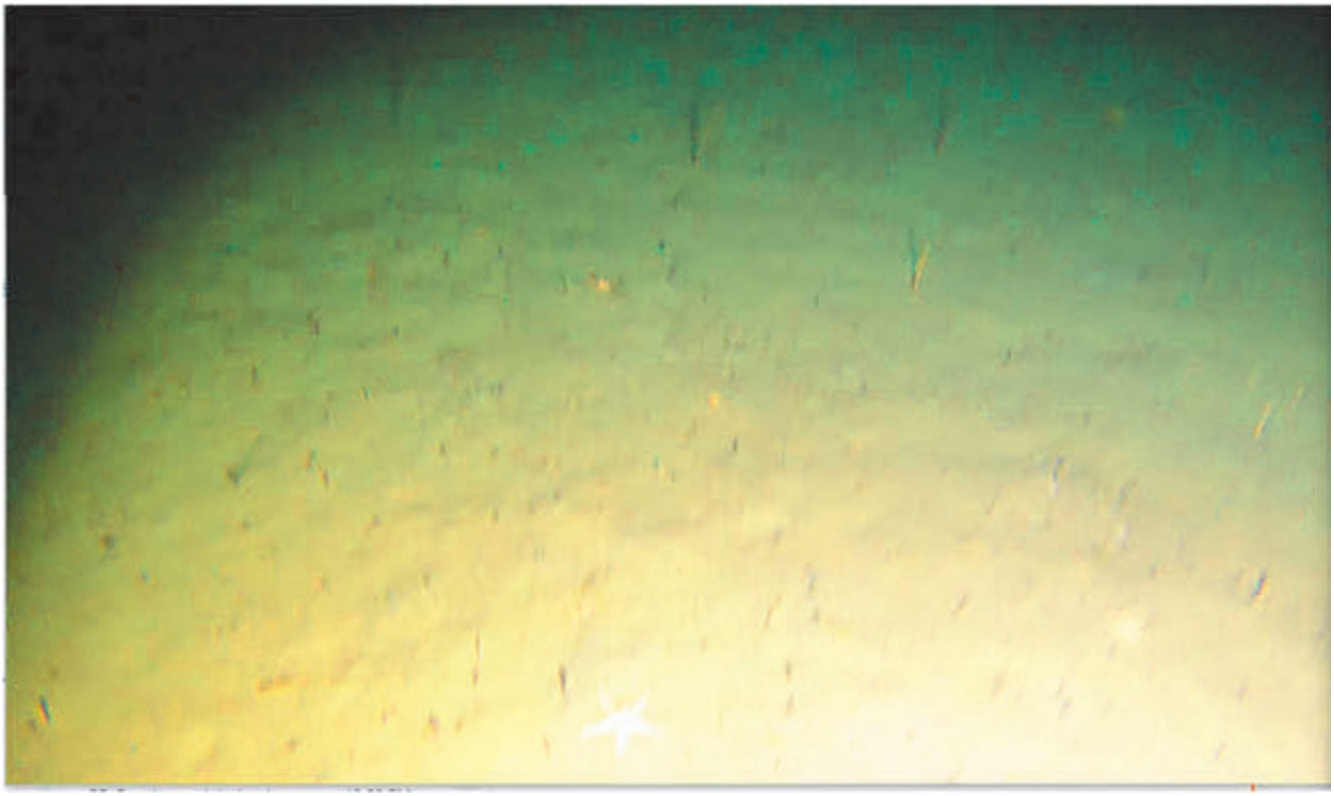
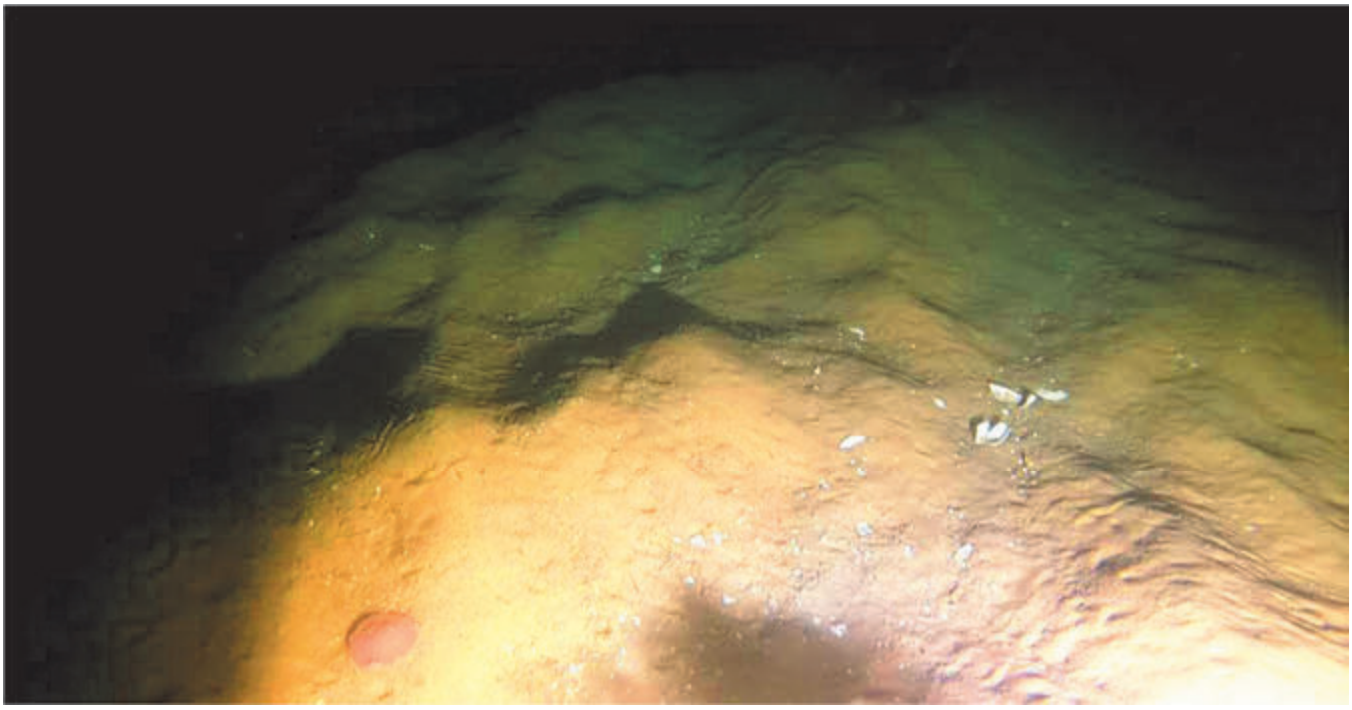
522CT22-GB008-1



BENTHIC GRAB IMAGE

522CT22-GB010-1



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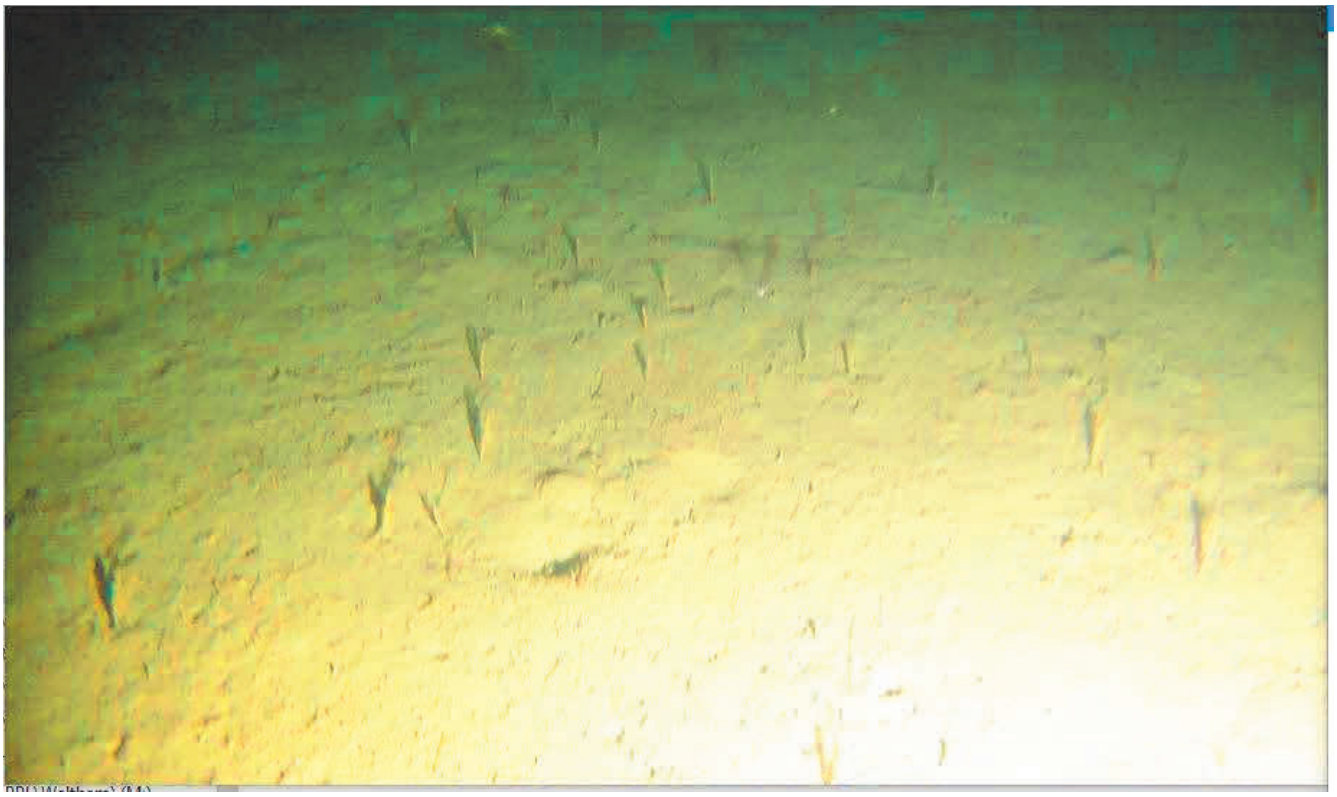
522CT22-GB012-1



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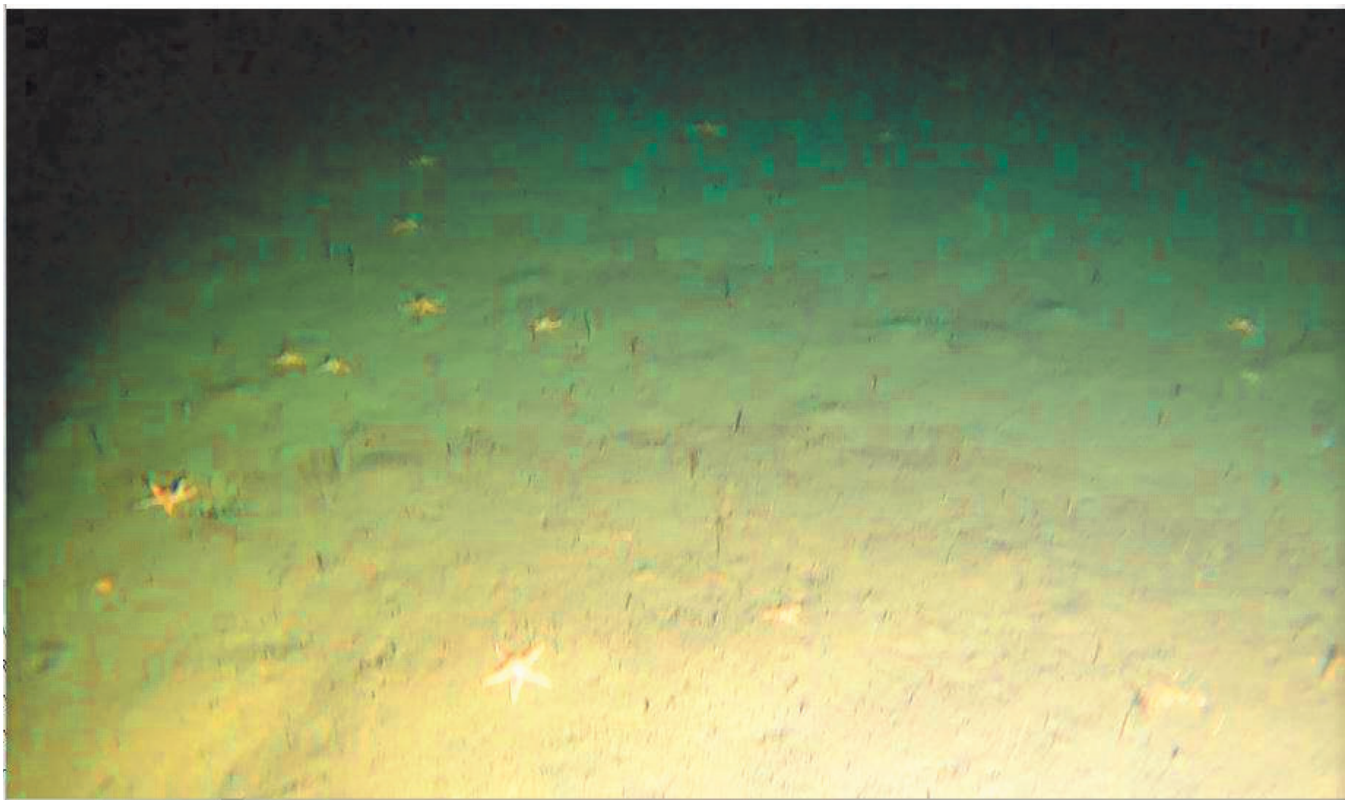
522CT22-GB014-1



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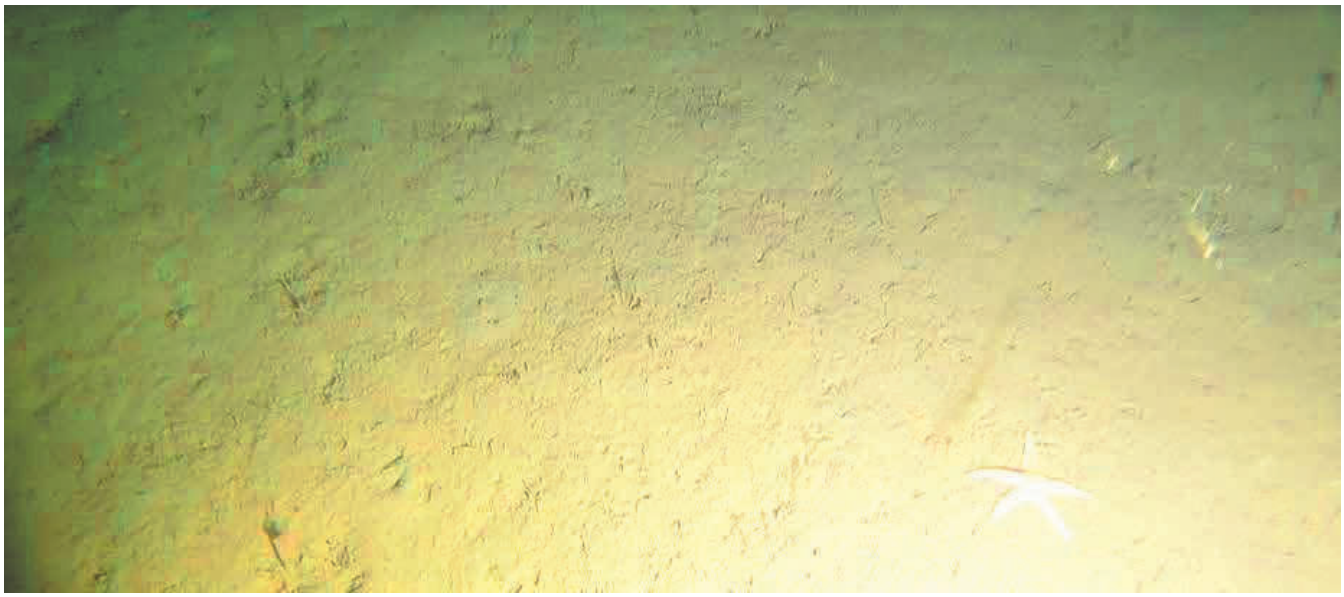
522CT22-GB016-1



BENTHIC GRAB IMAGE

522CT22-GB018-1

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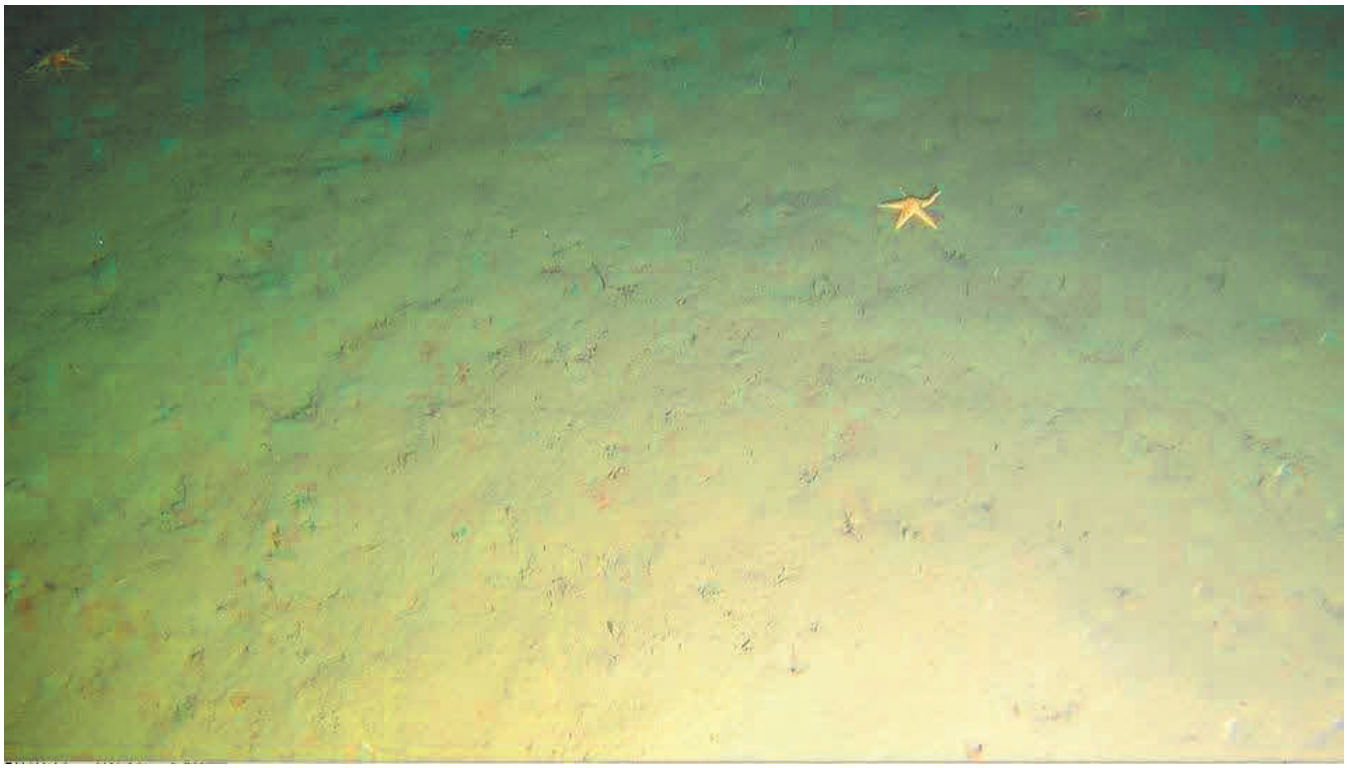
522CT22-GB020-1



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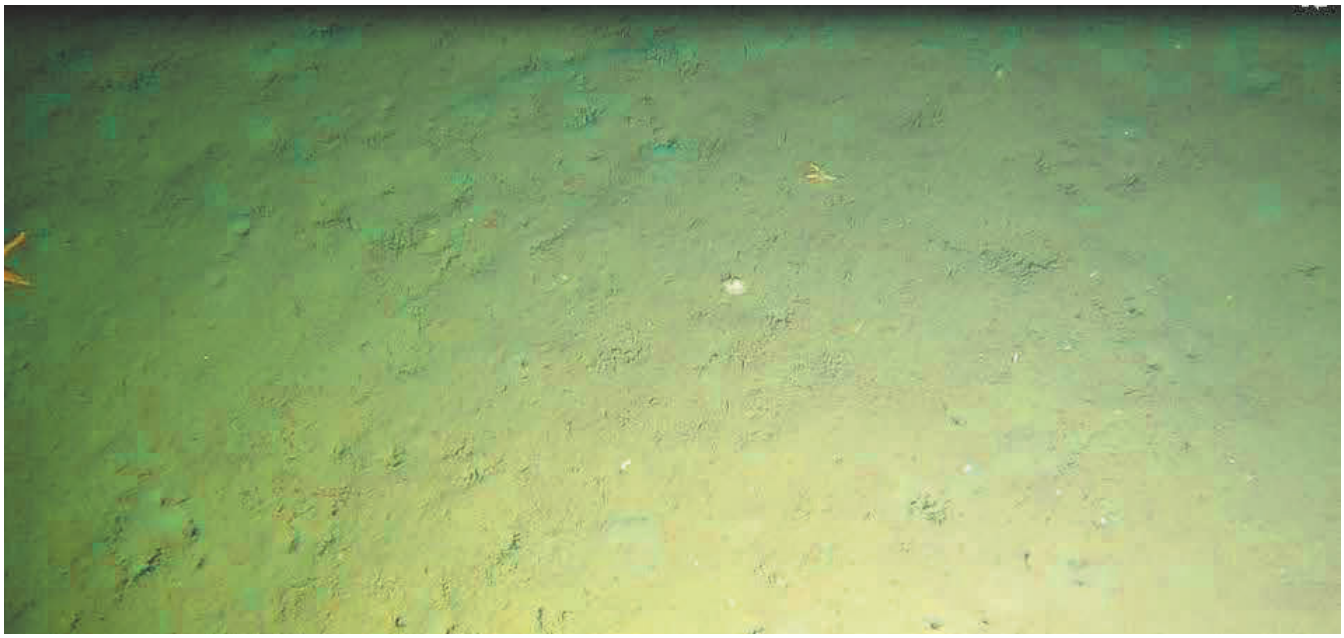
522CT22-GB022-1



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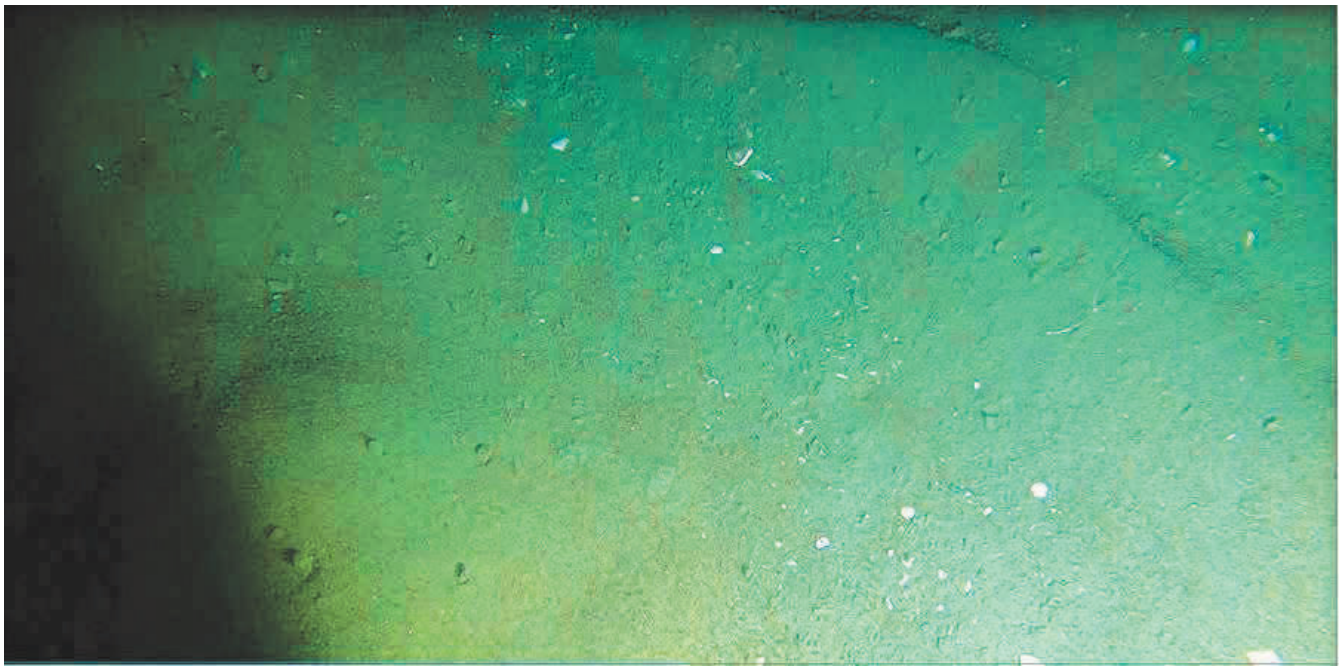
522CT22-GB024-1

BENTHIC GRAB IMAGE

522CT22-GB026-3



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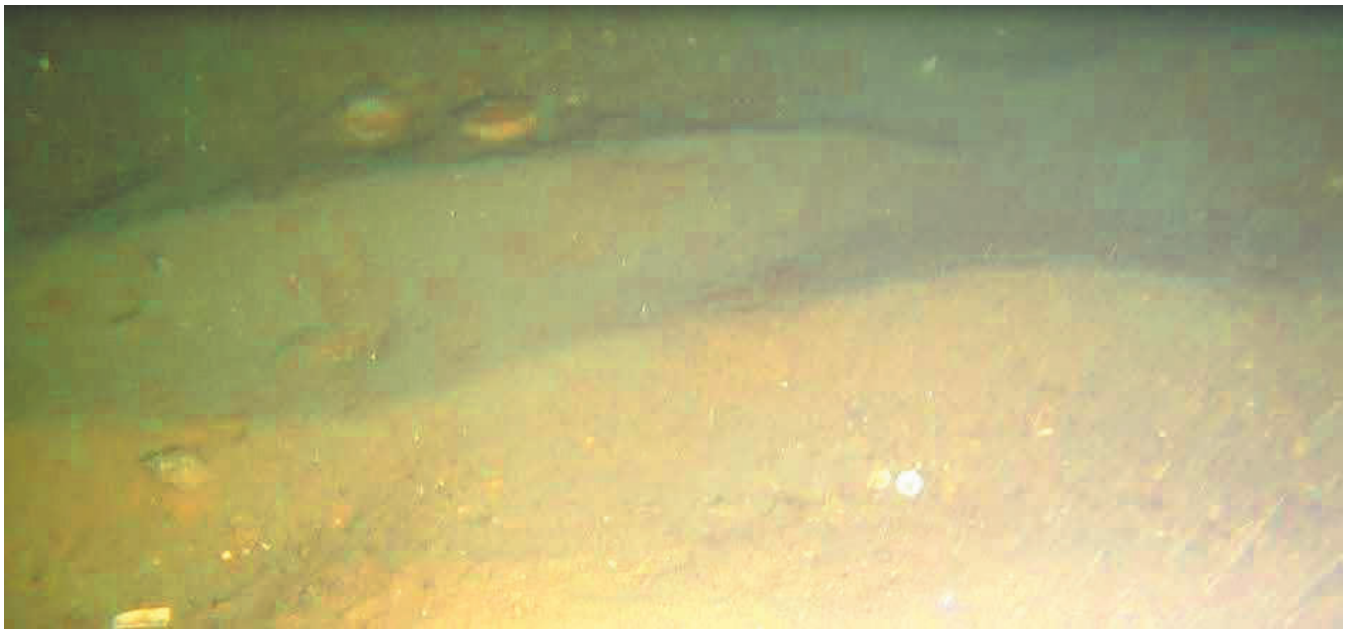
522CT22-GB028-1



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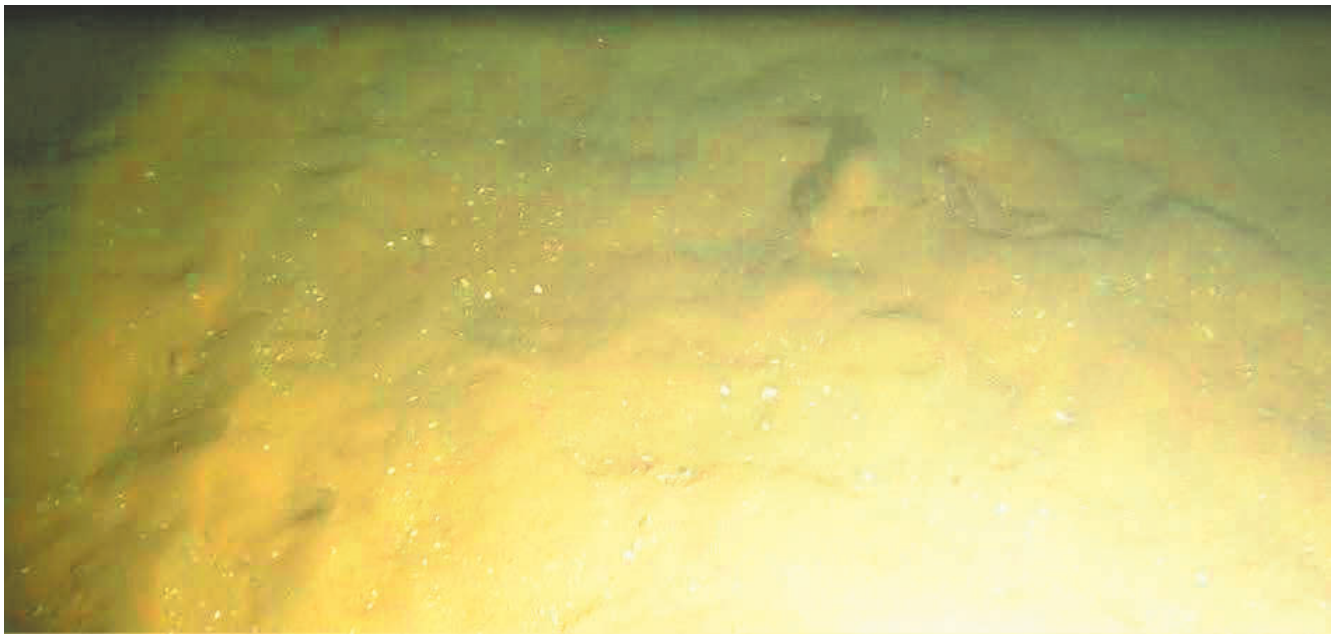
522CT22-GB030-1



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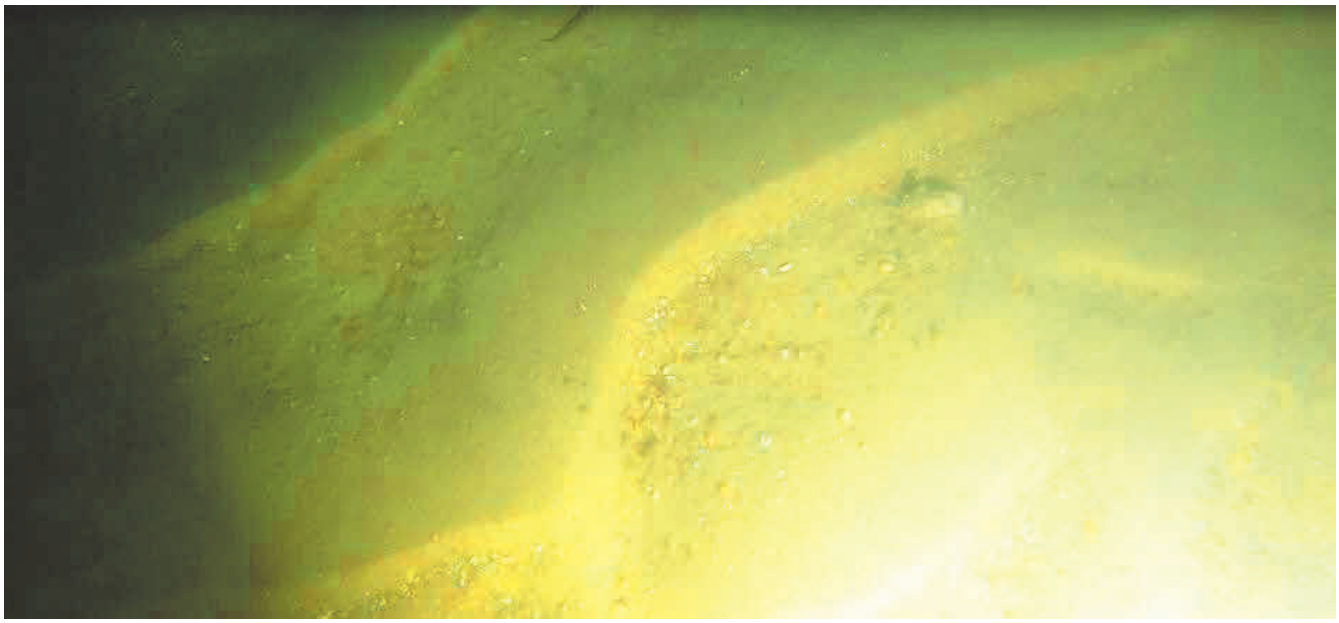

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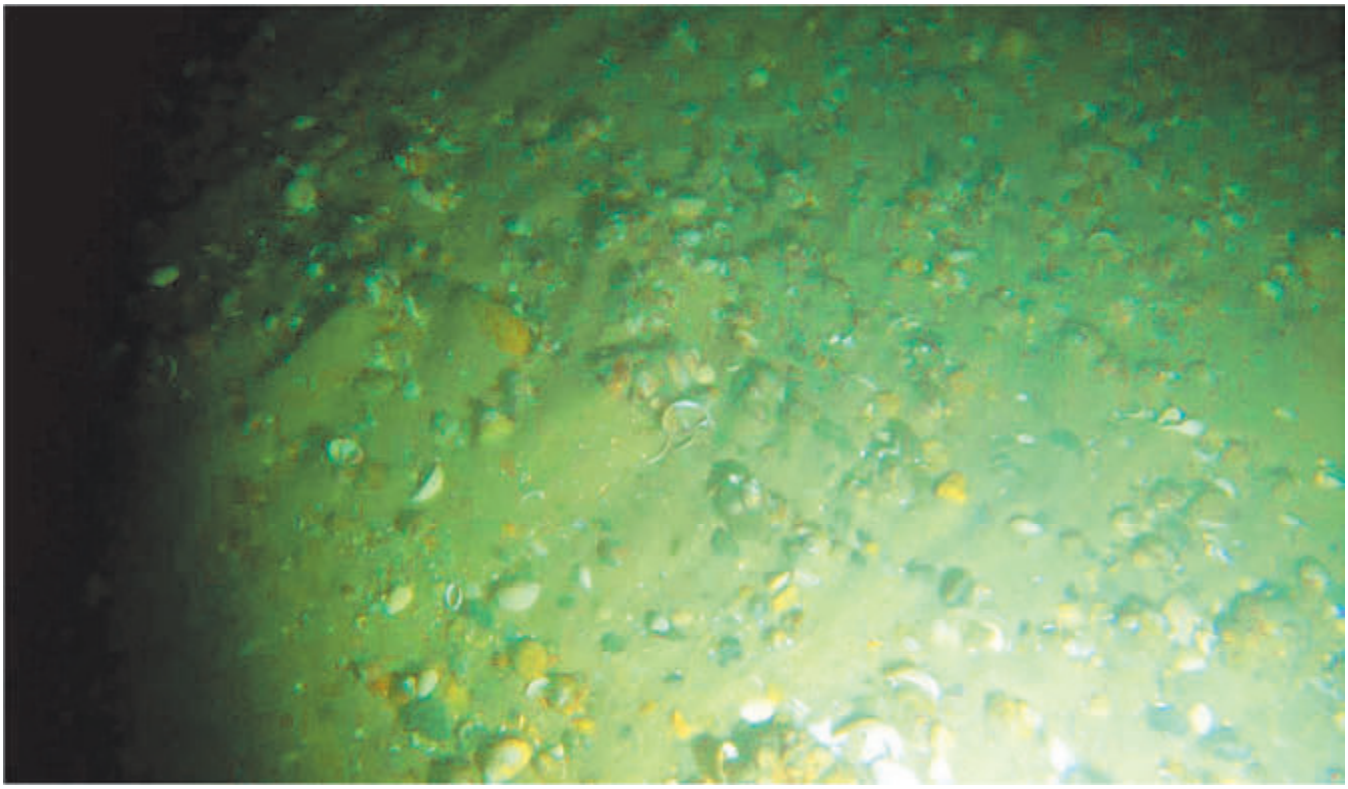

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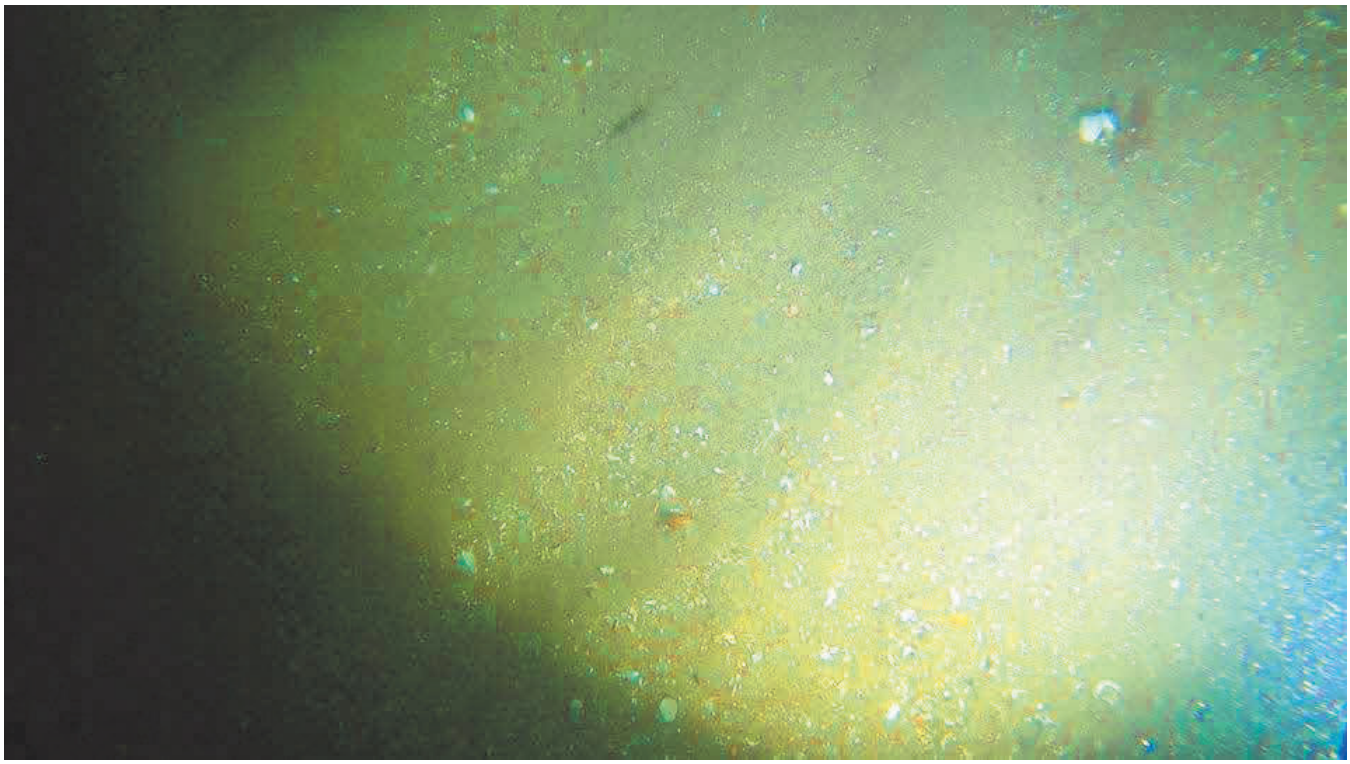

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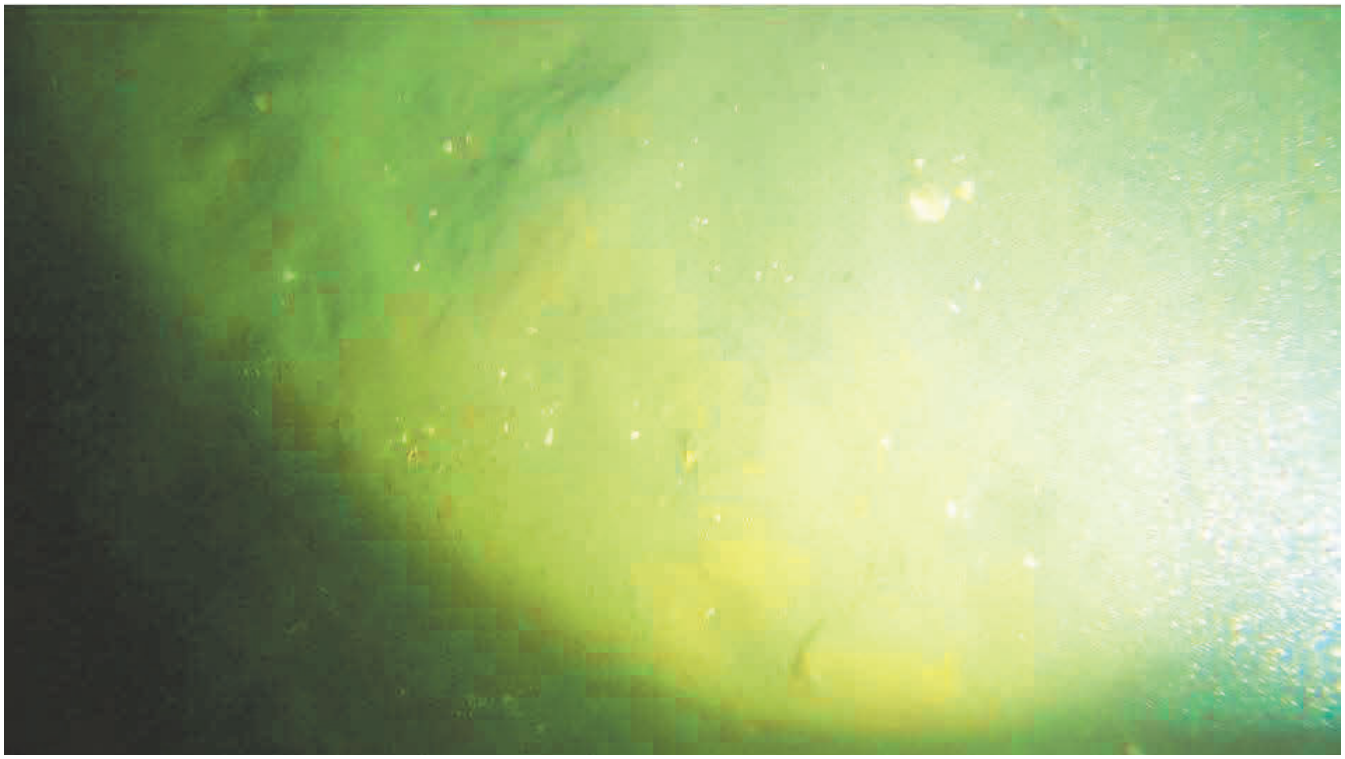

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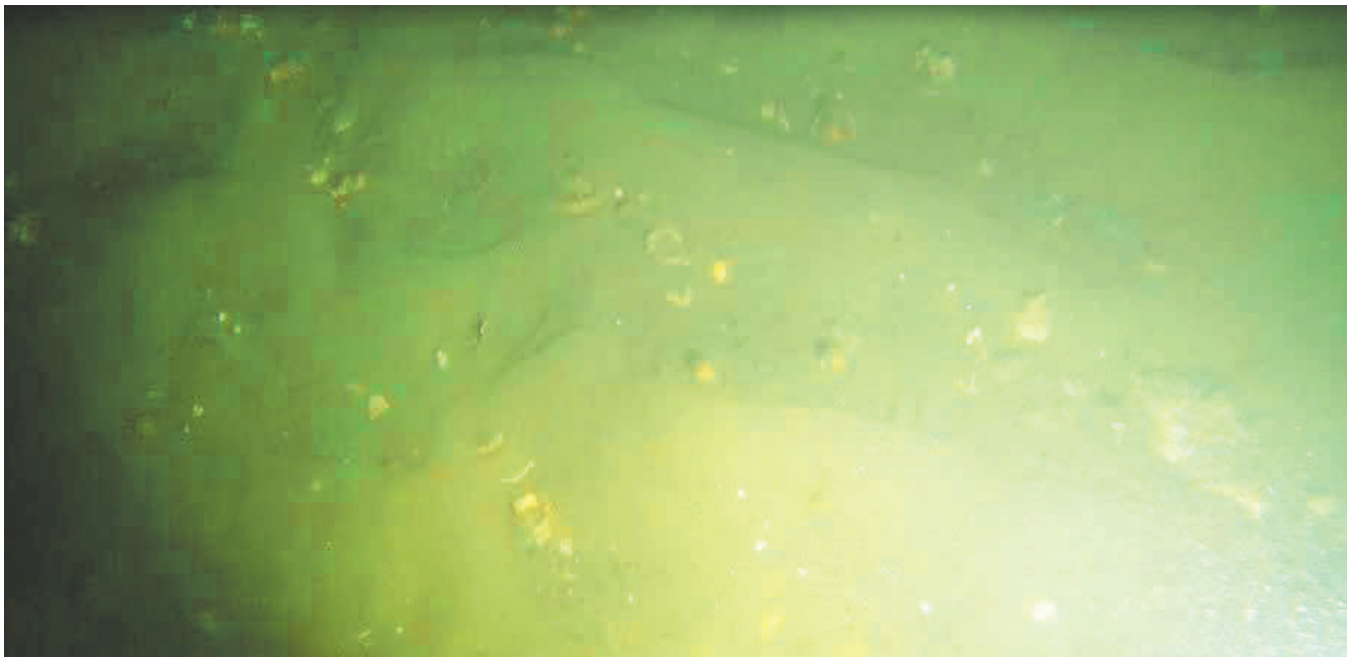

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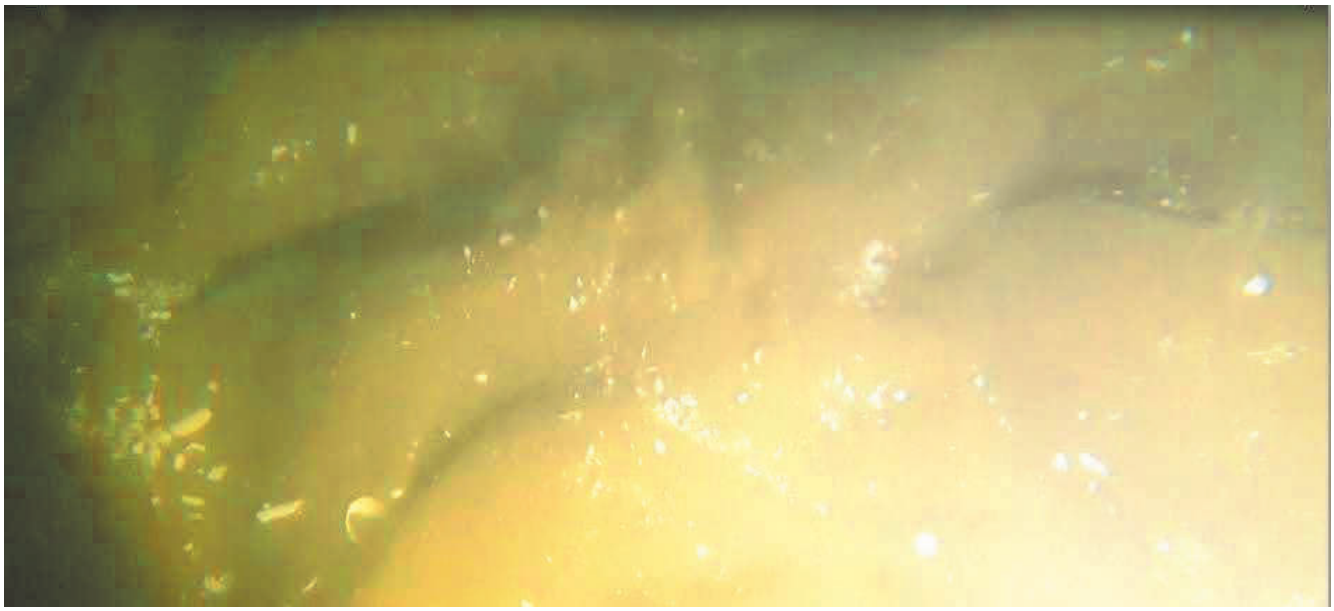

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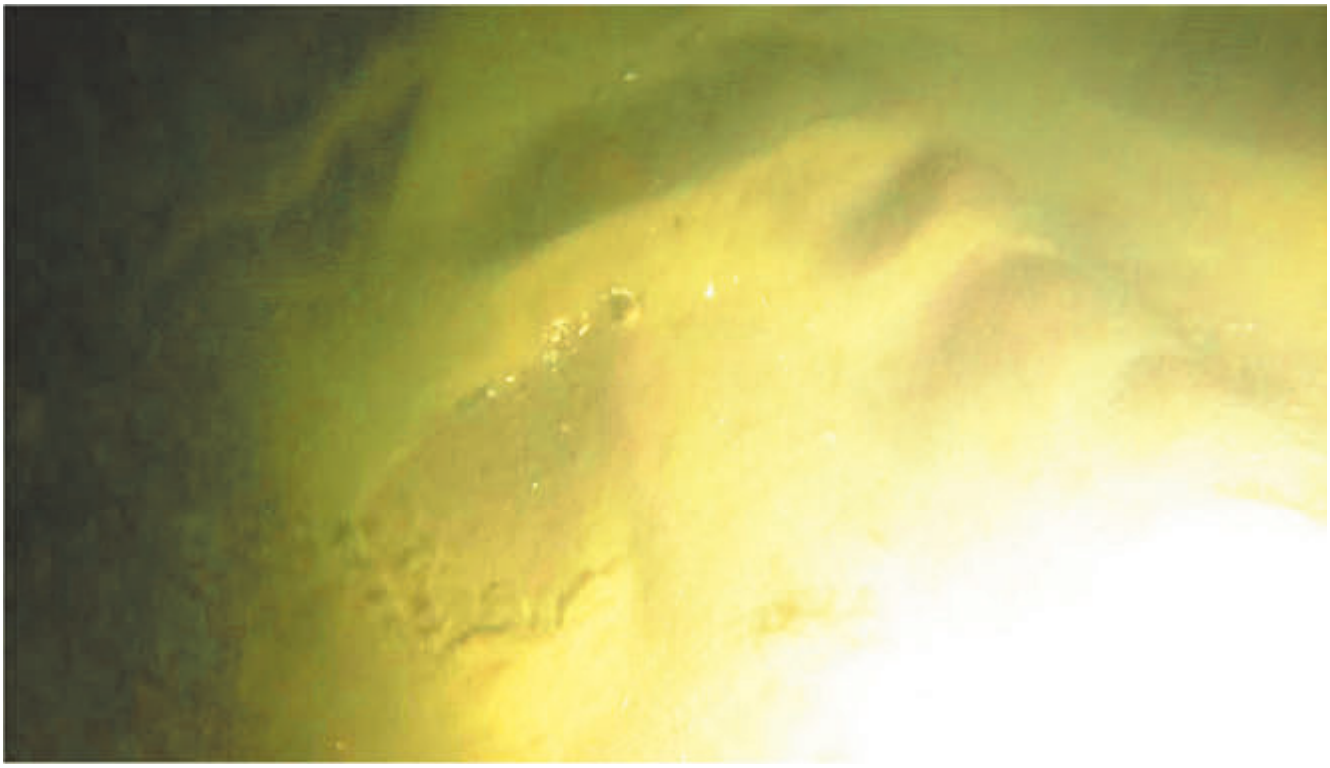

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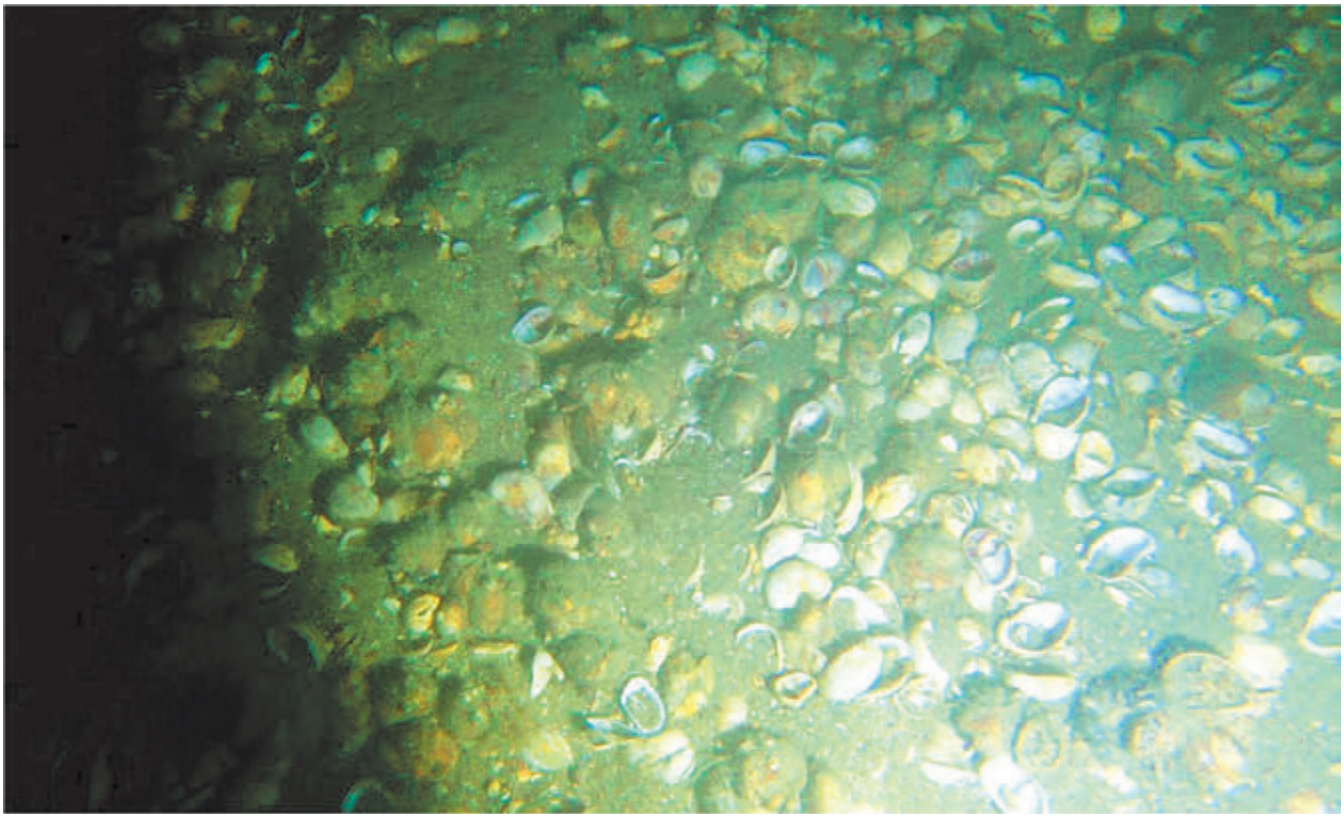

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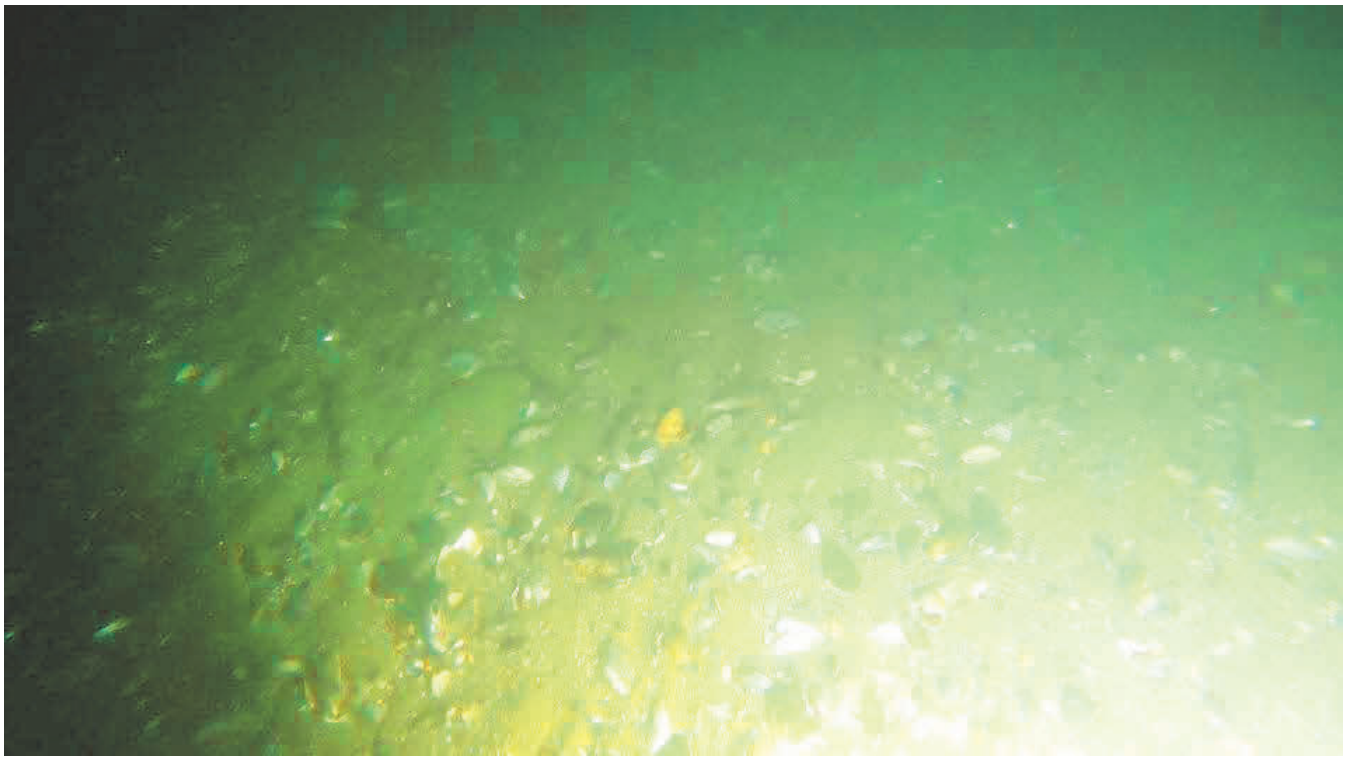

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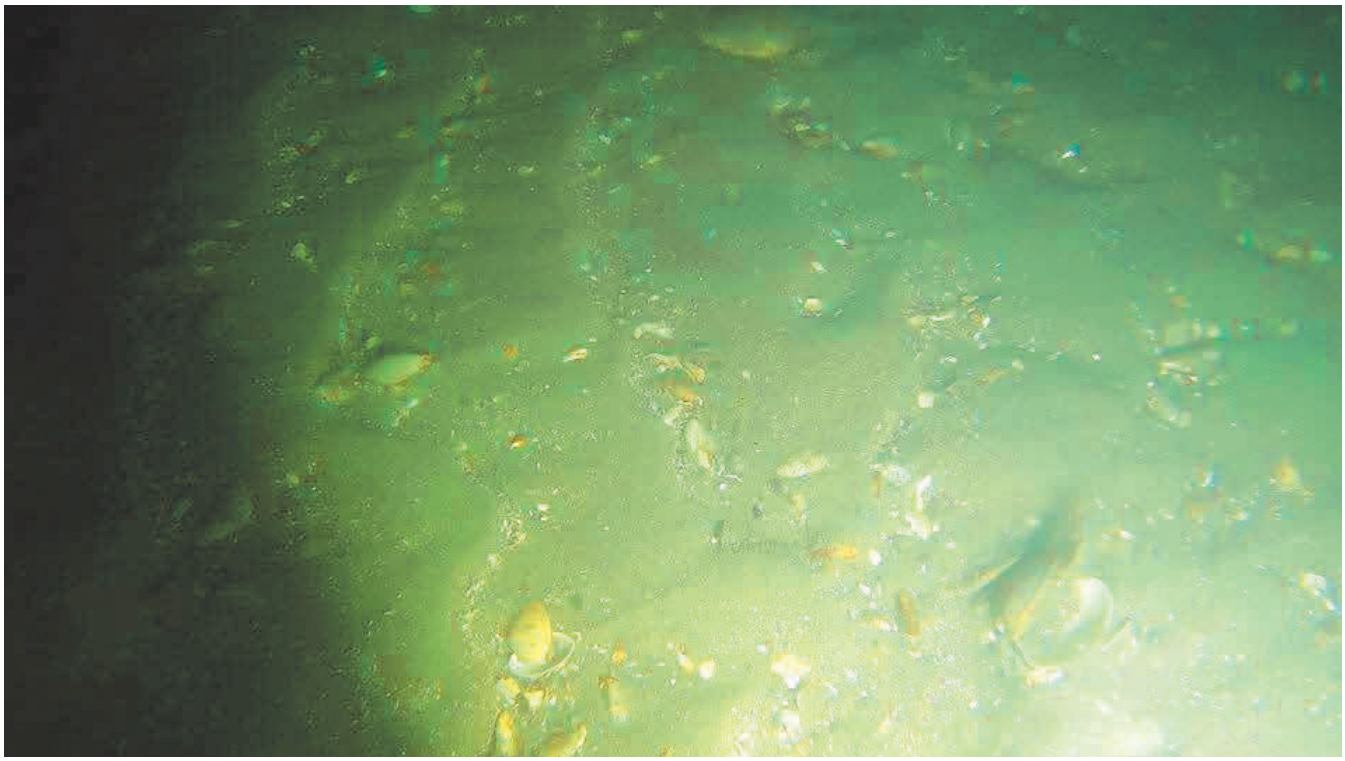

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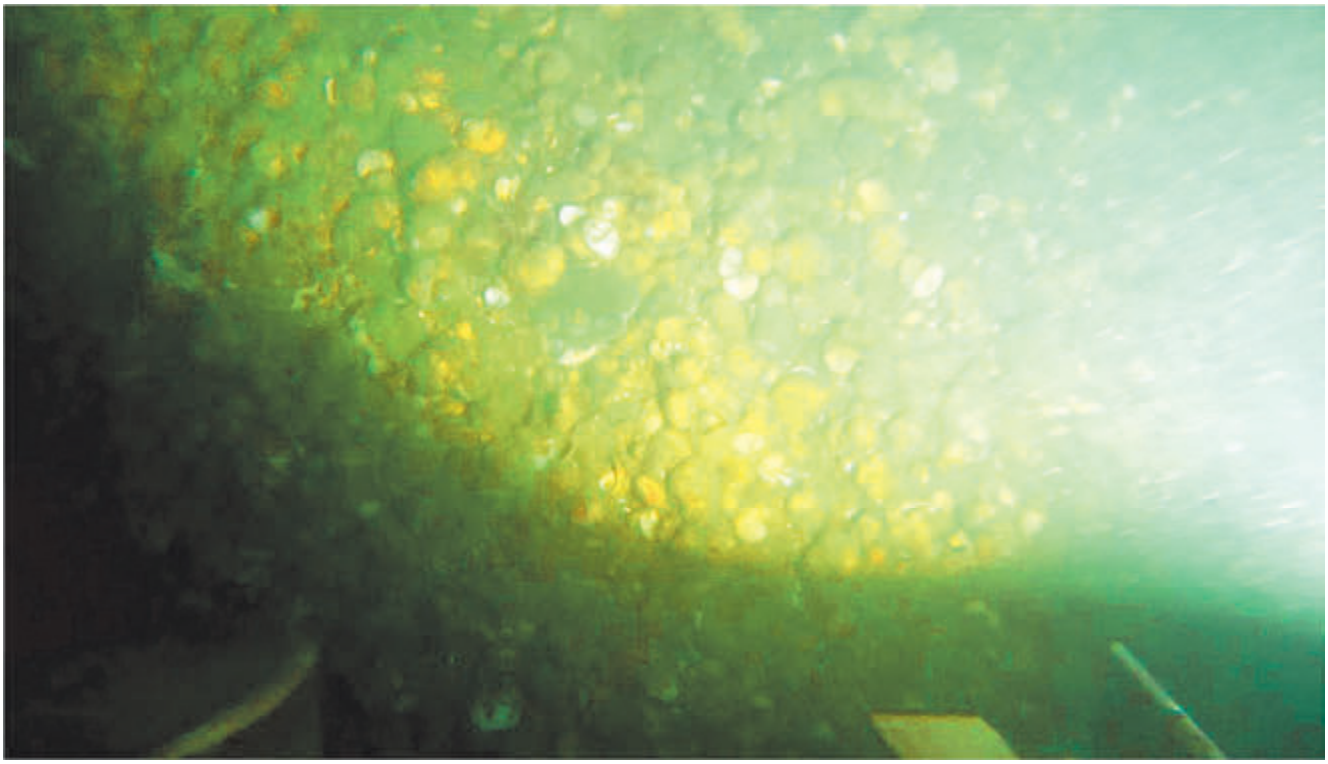

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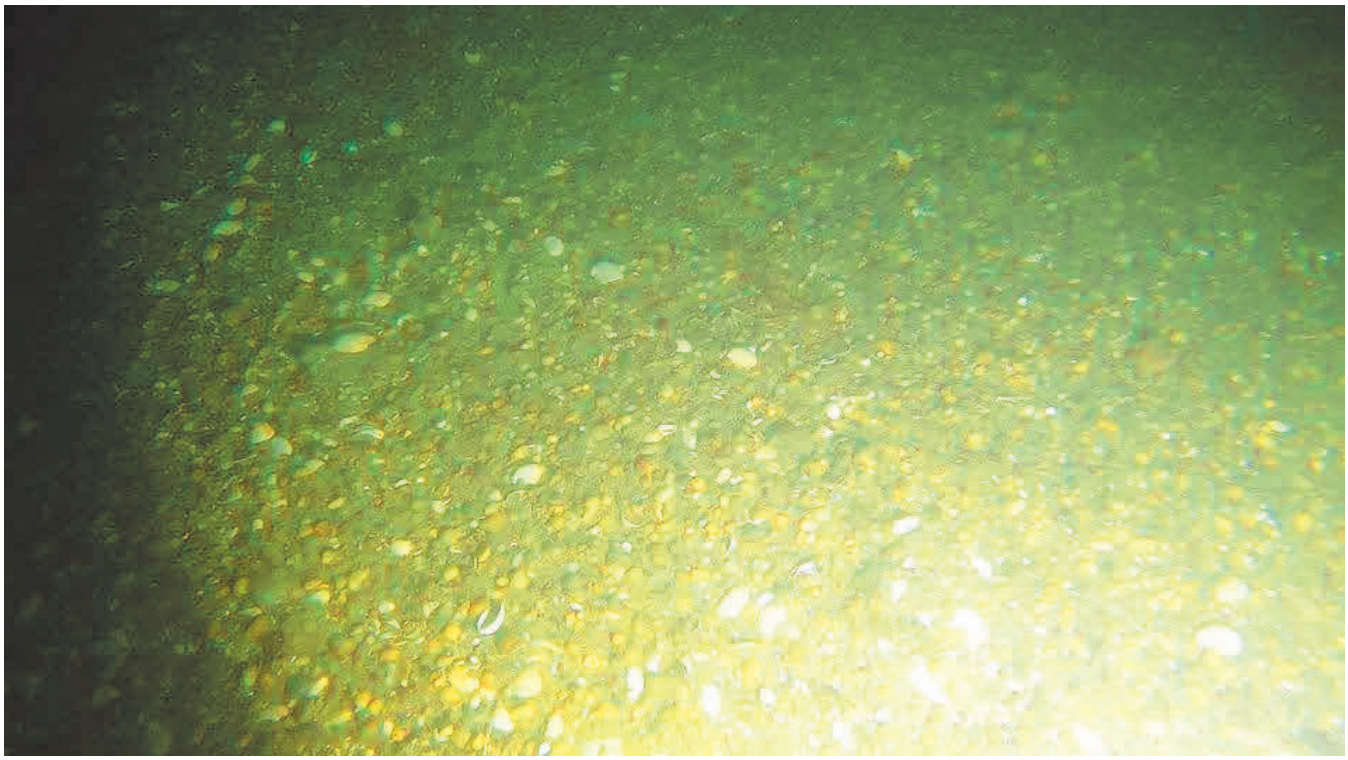

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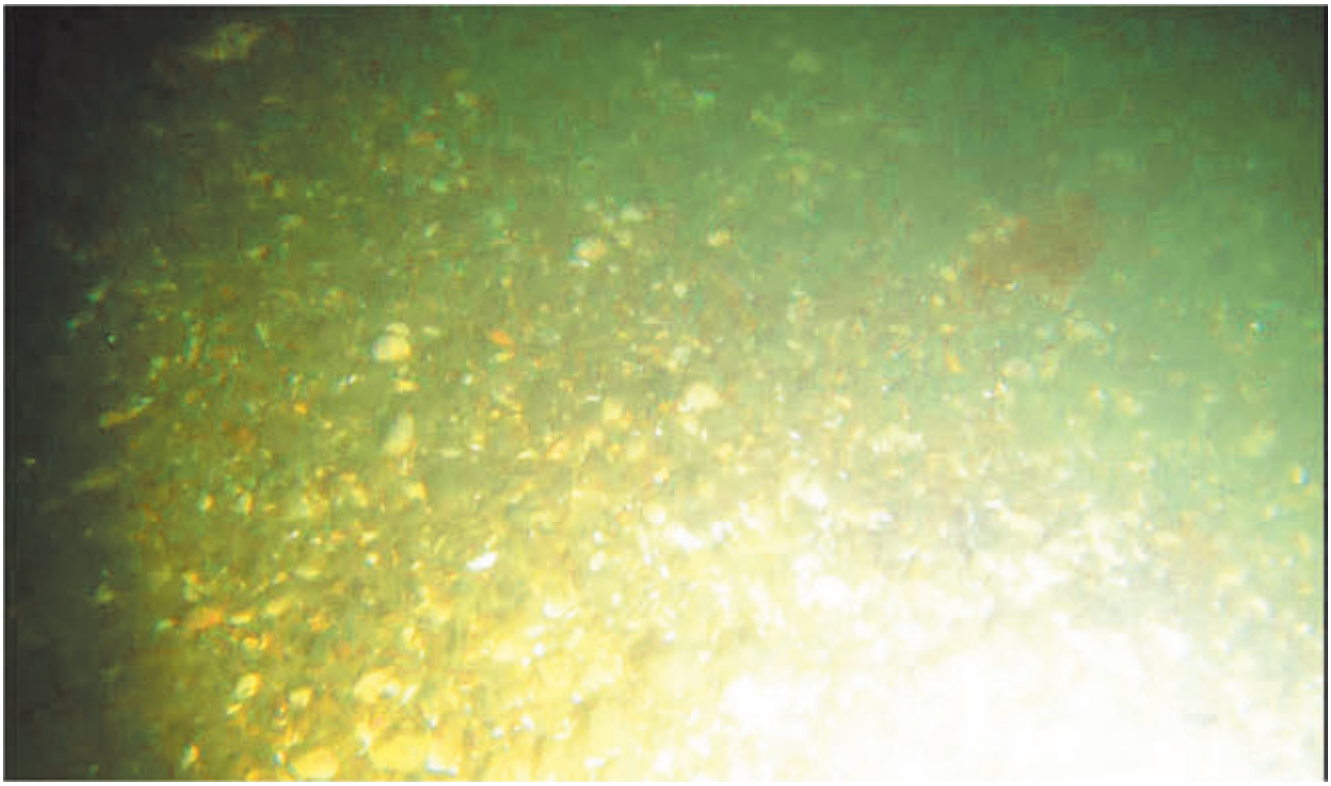

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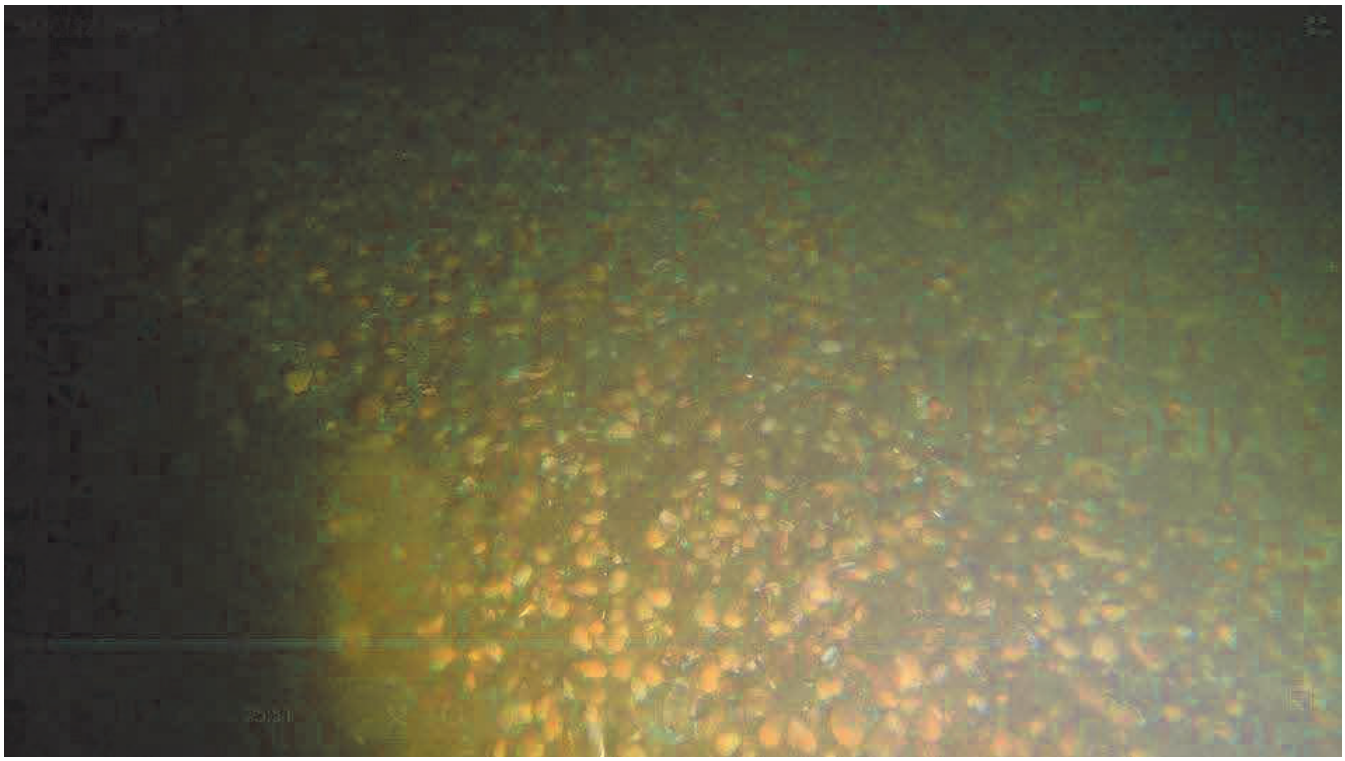

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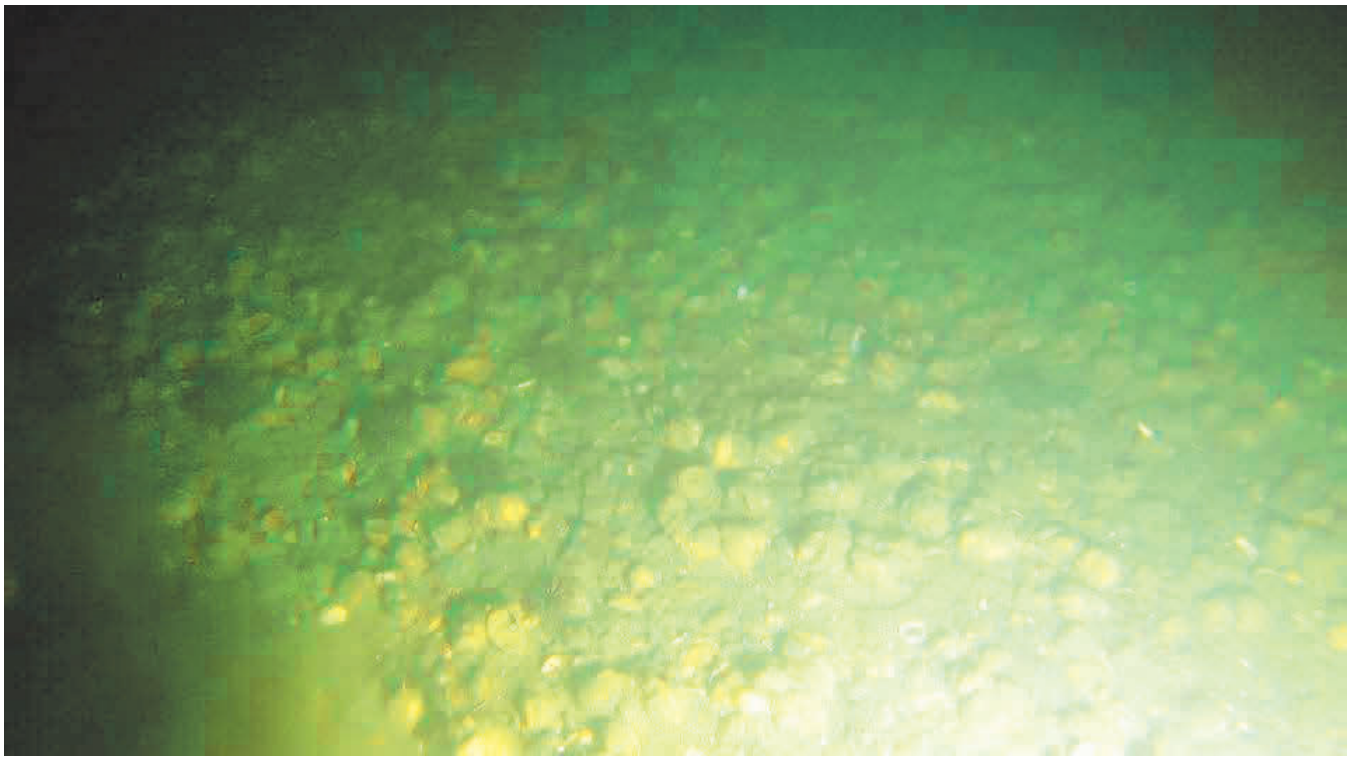

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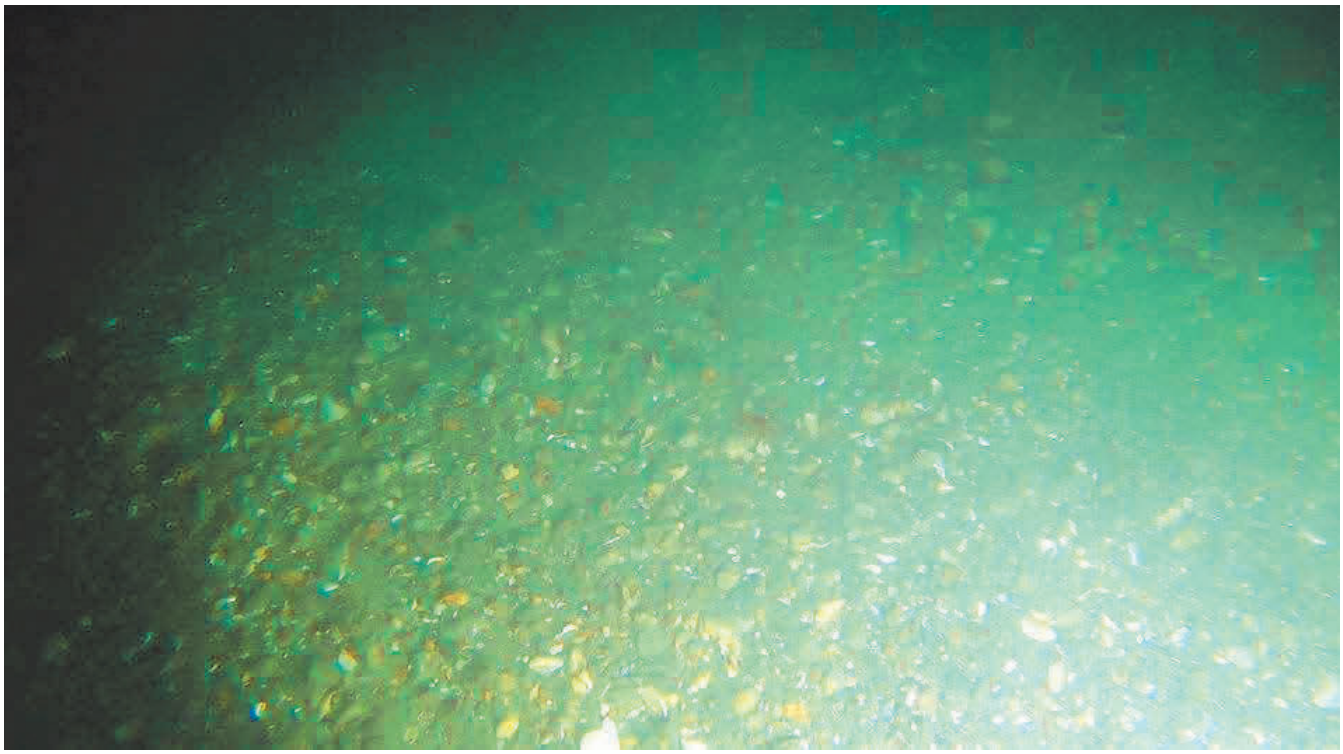

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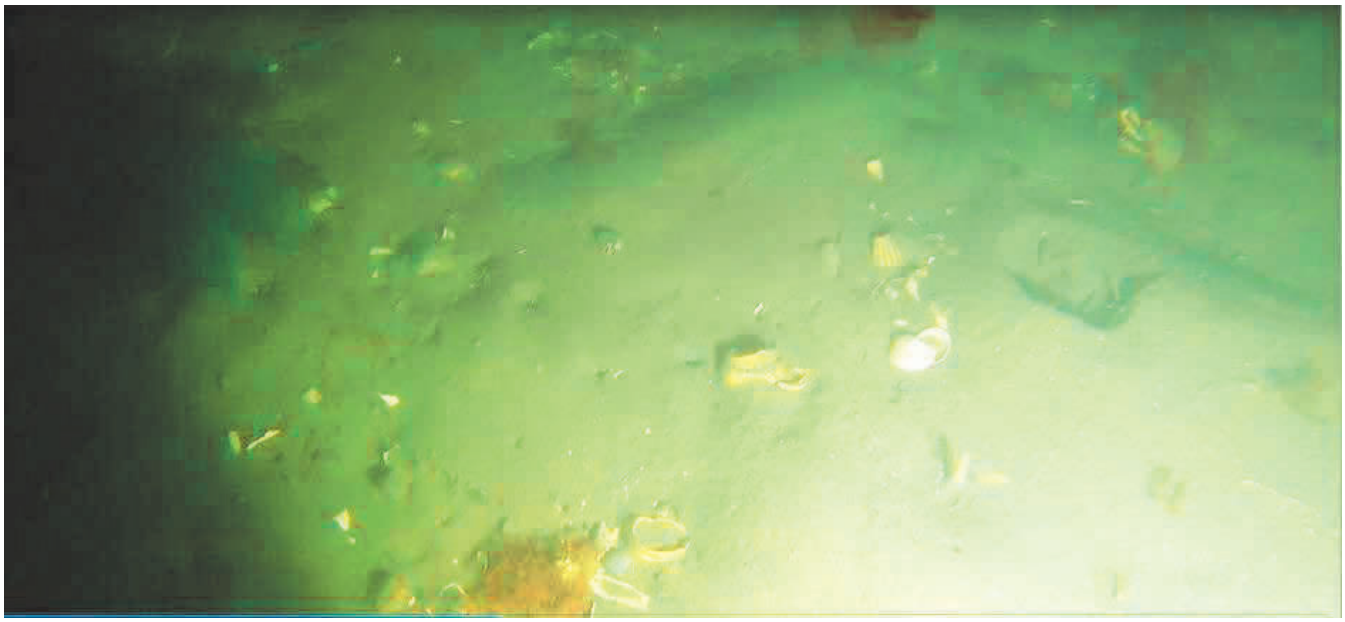

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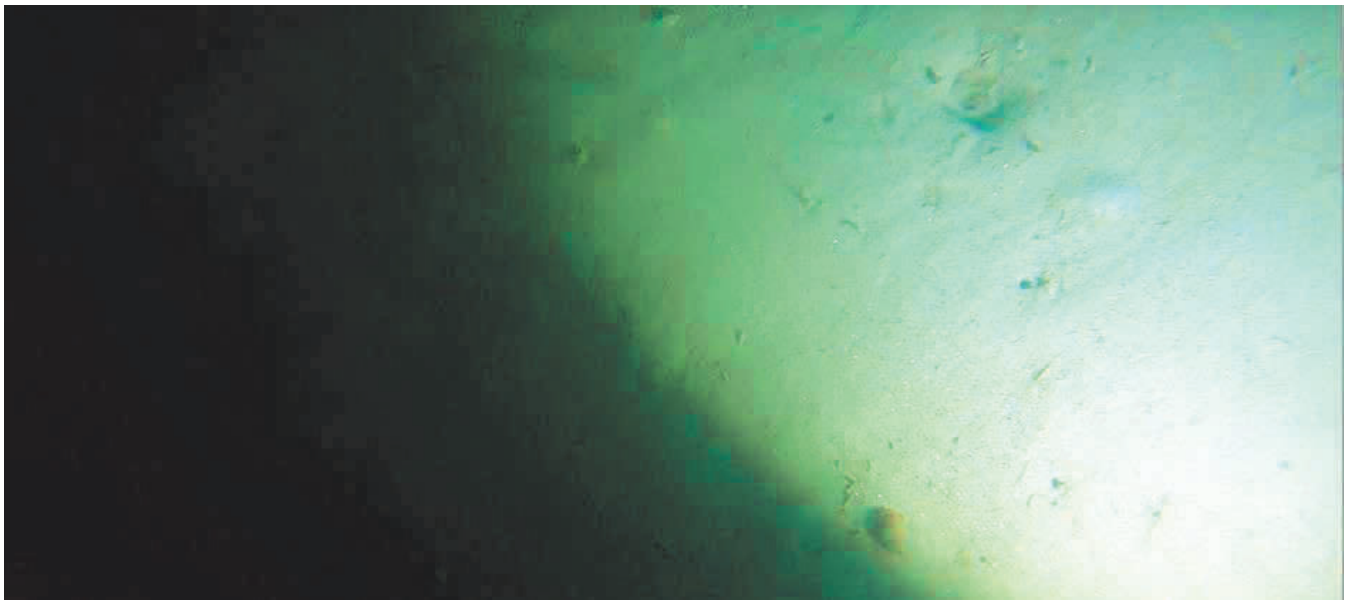

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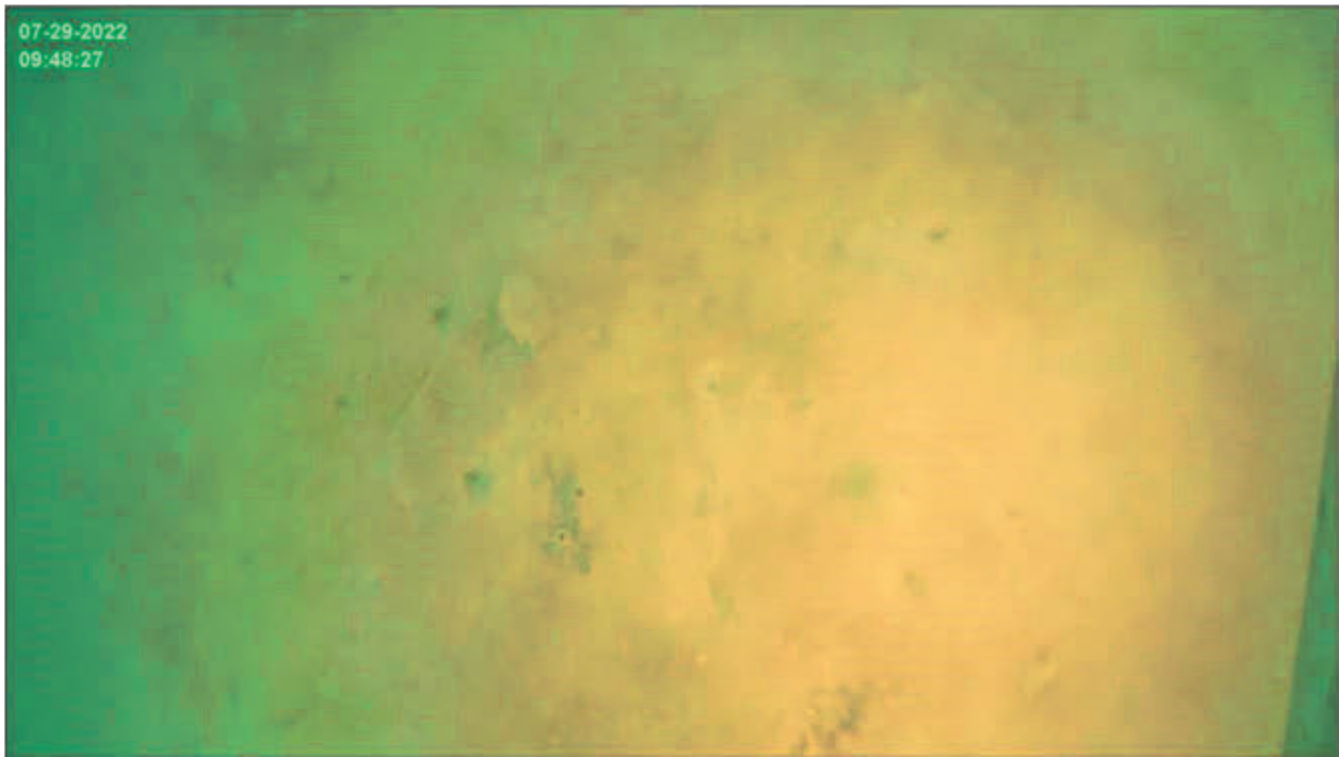

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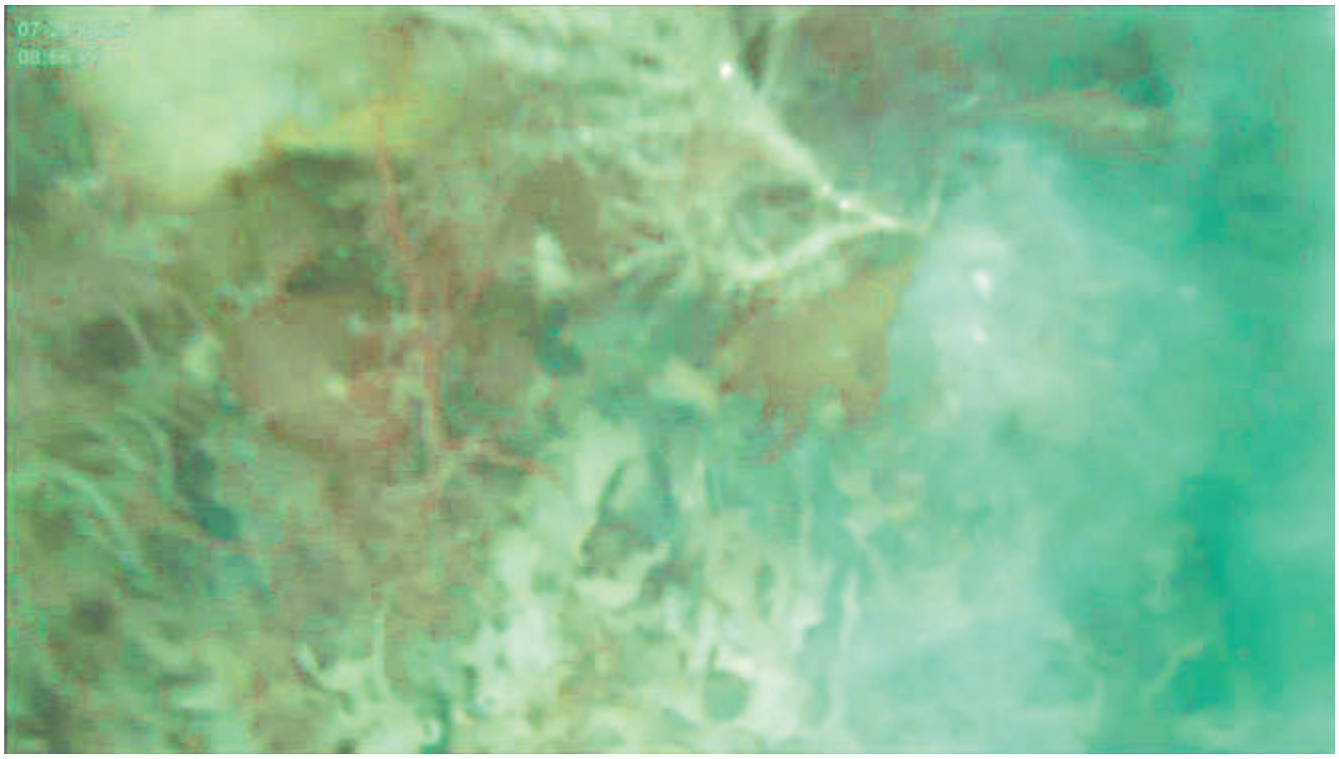

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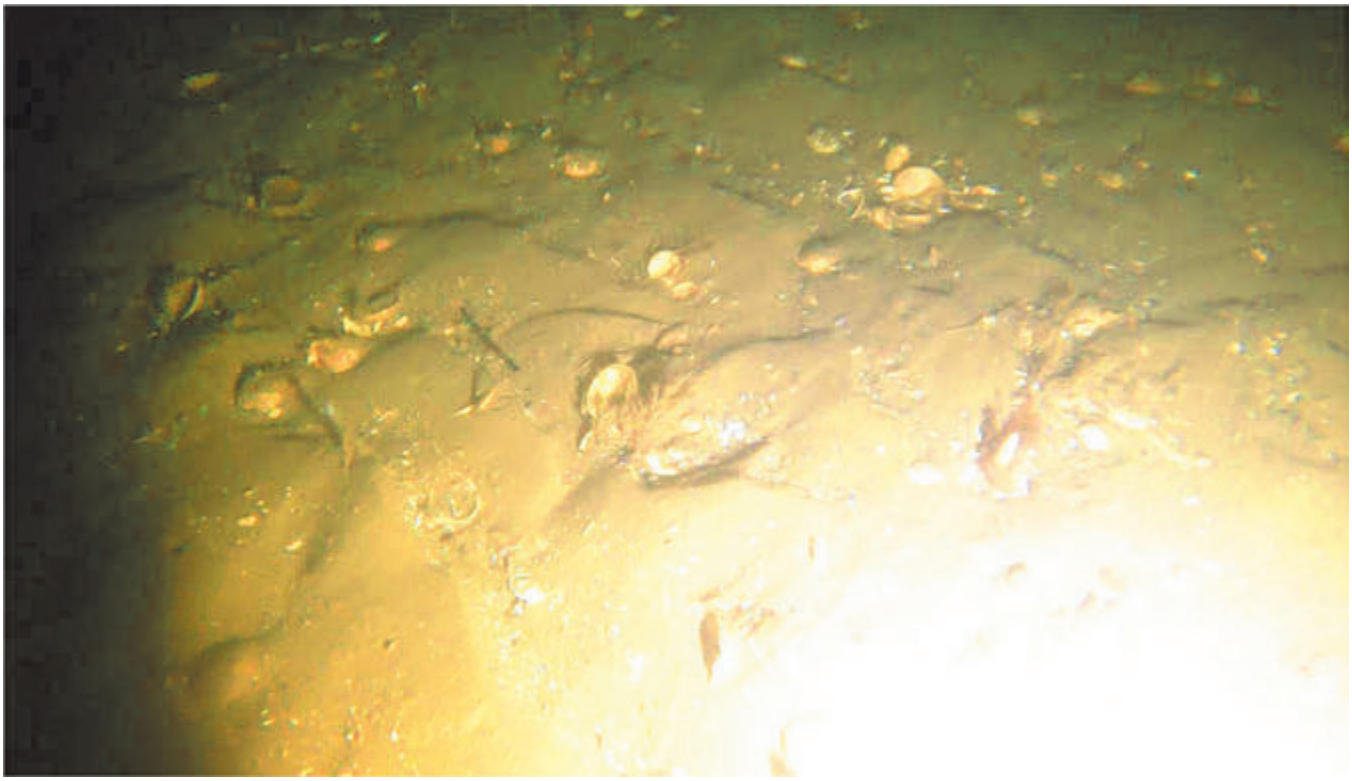

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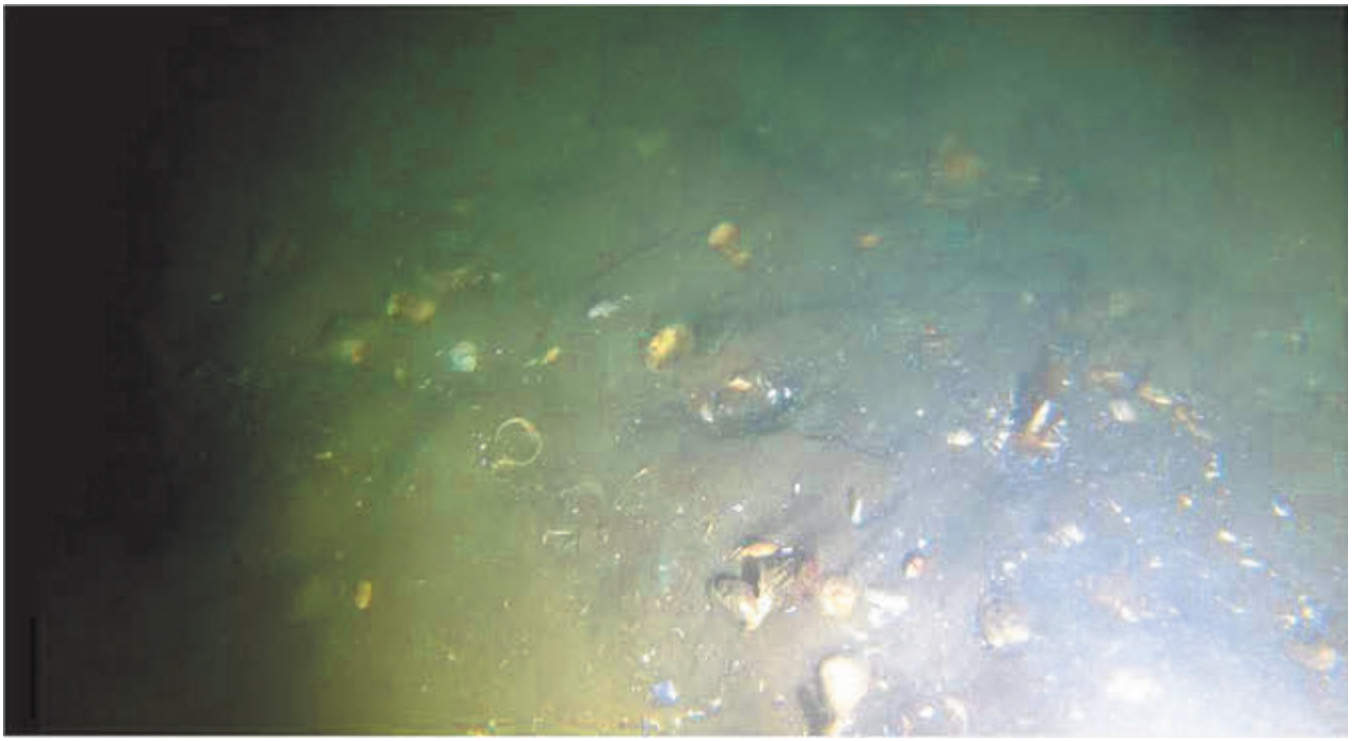

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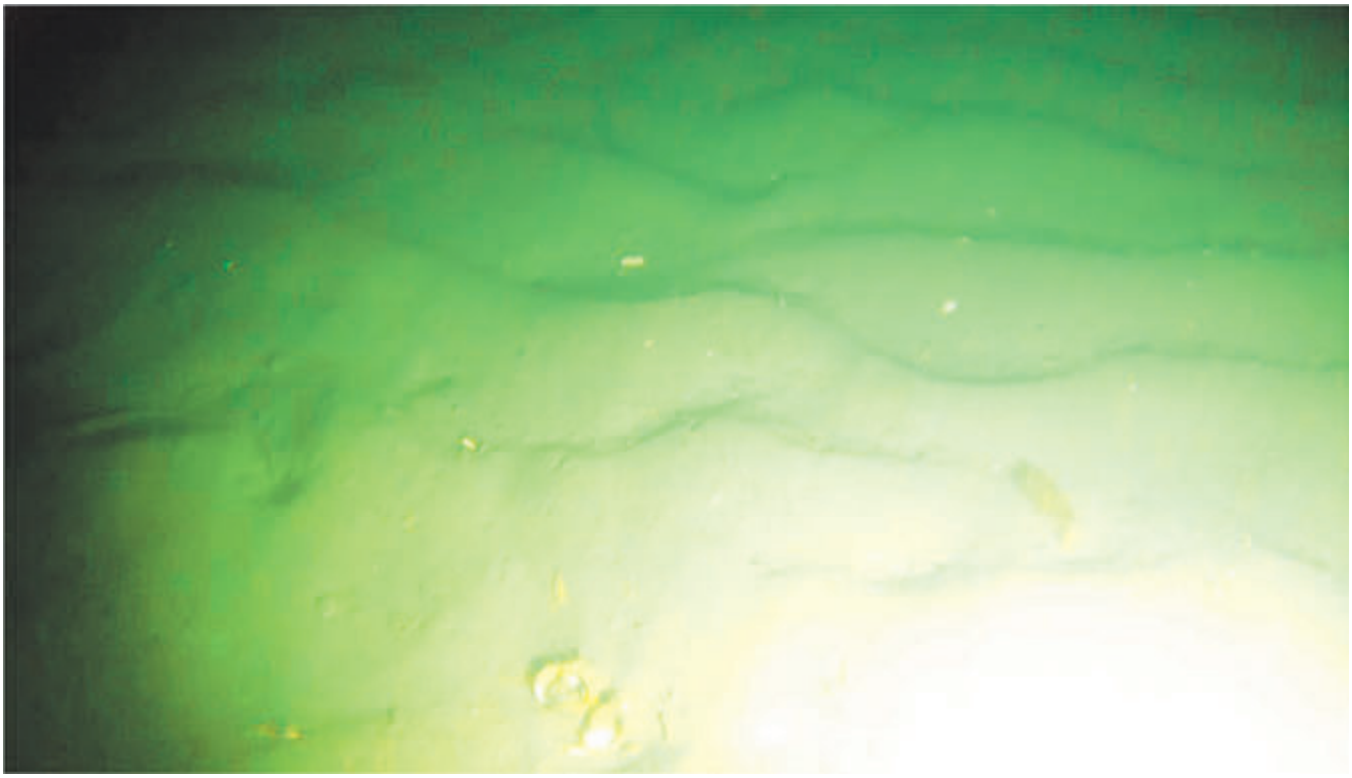

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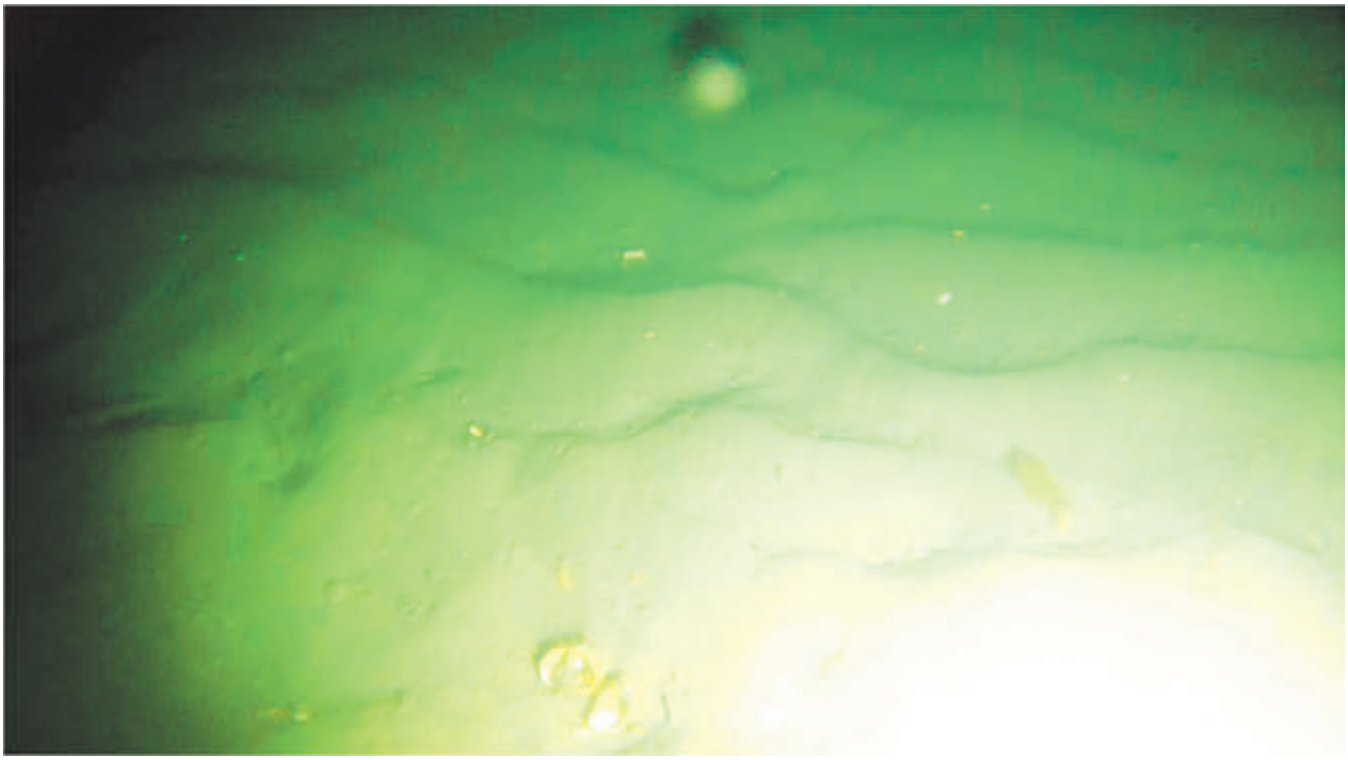

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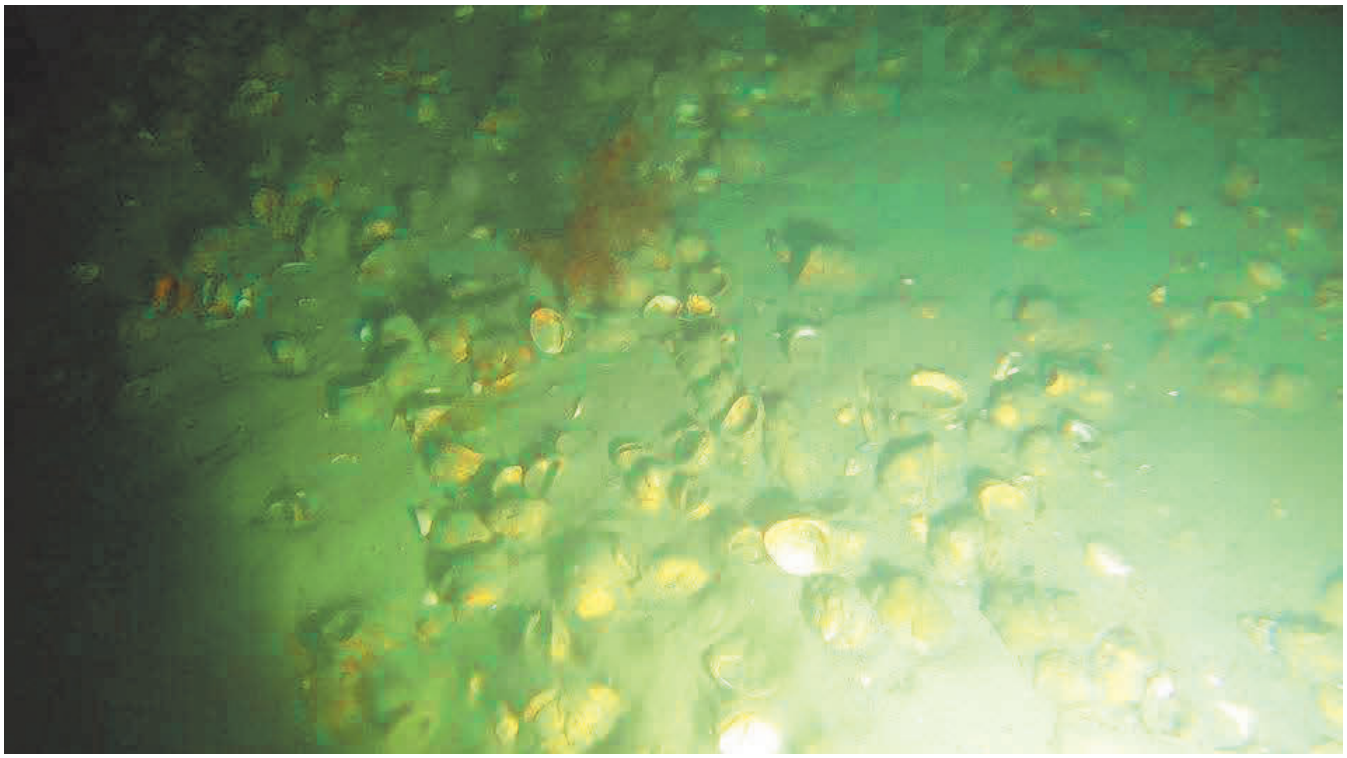

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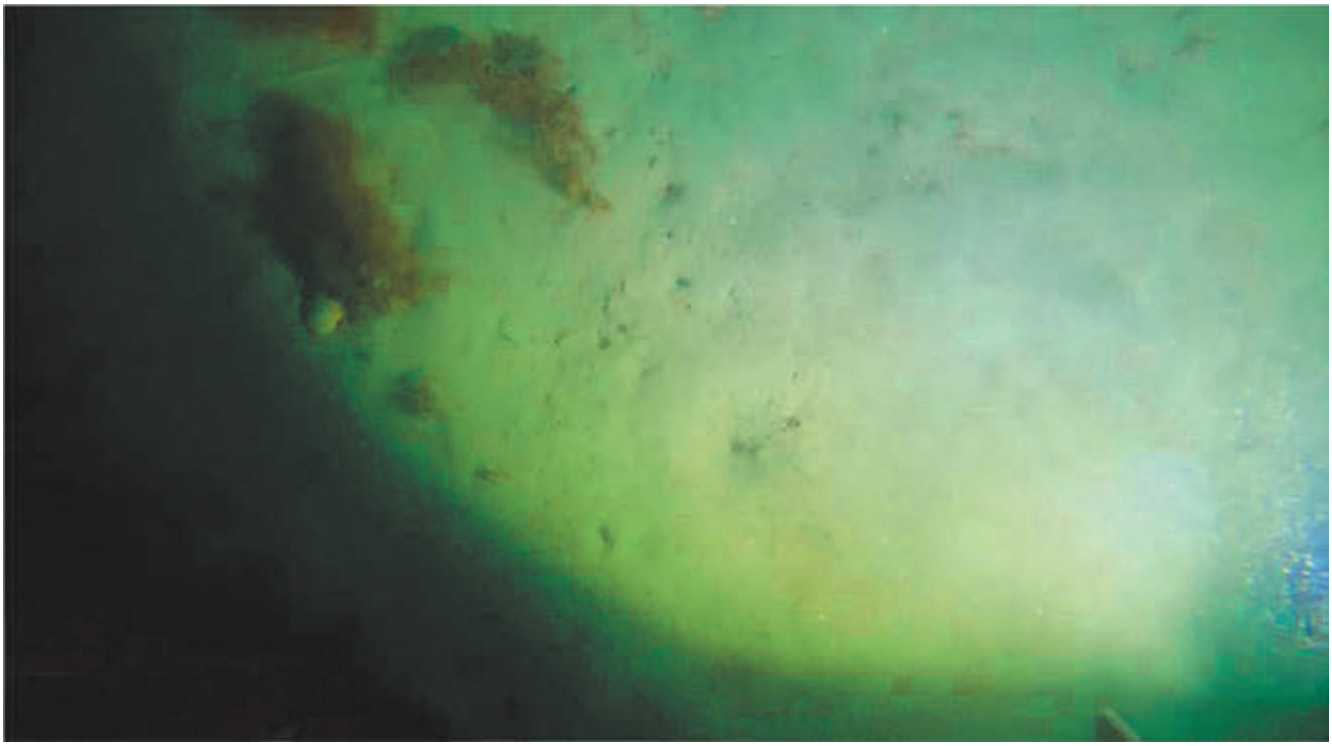

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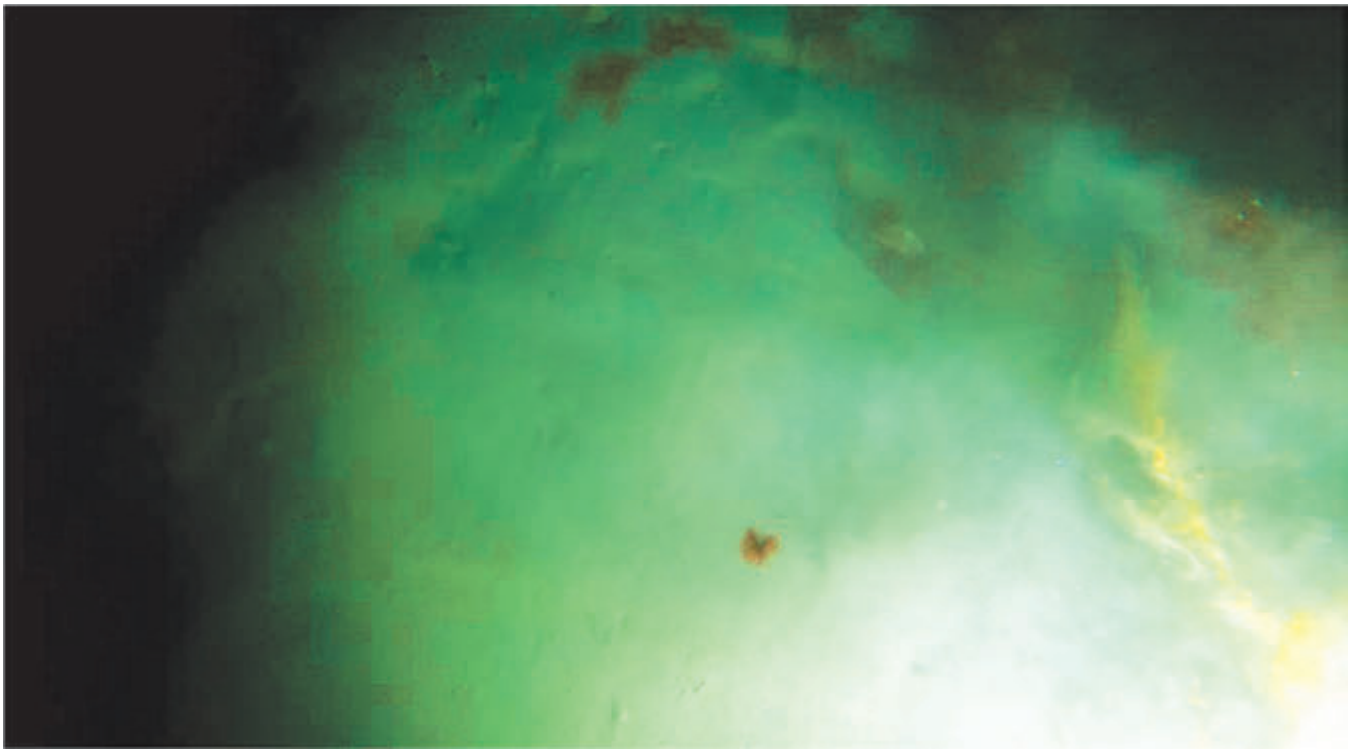

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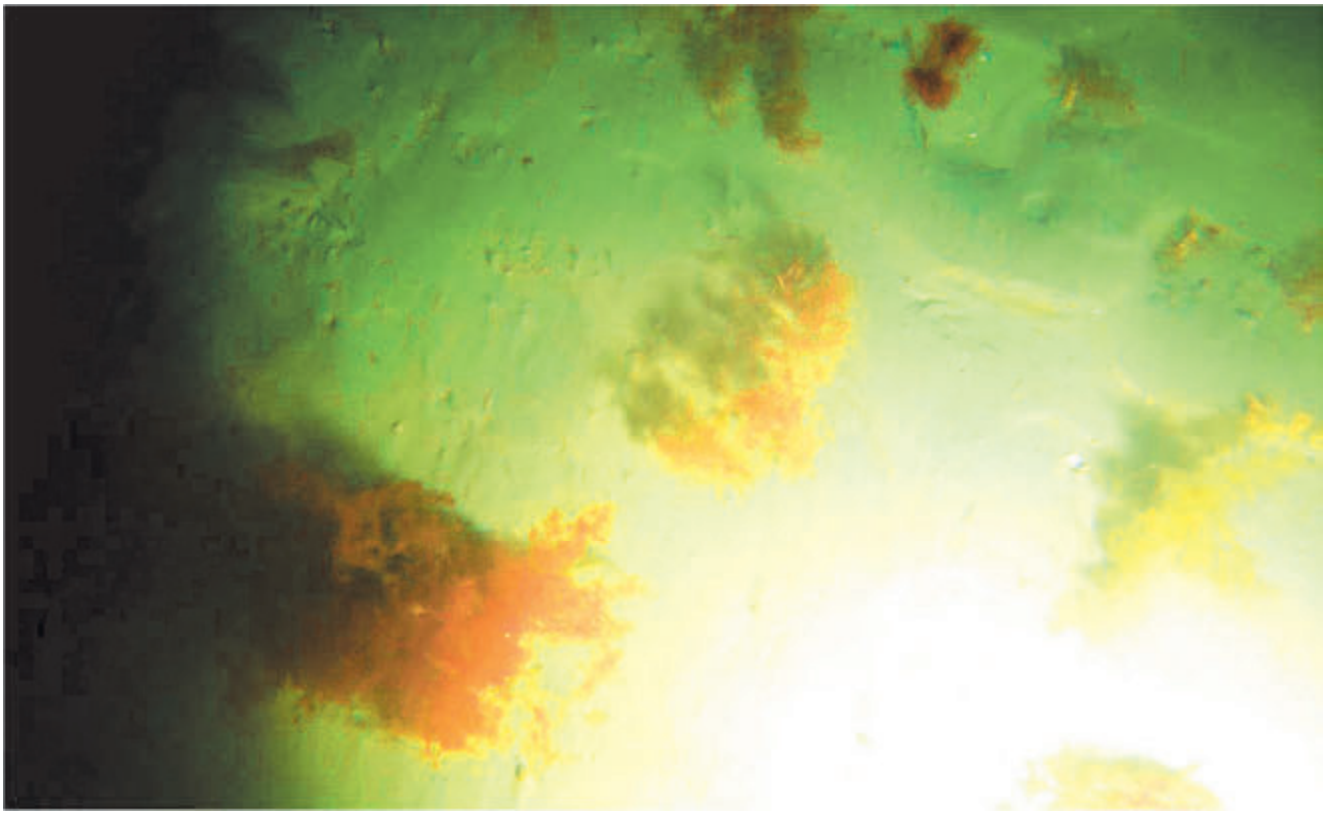

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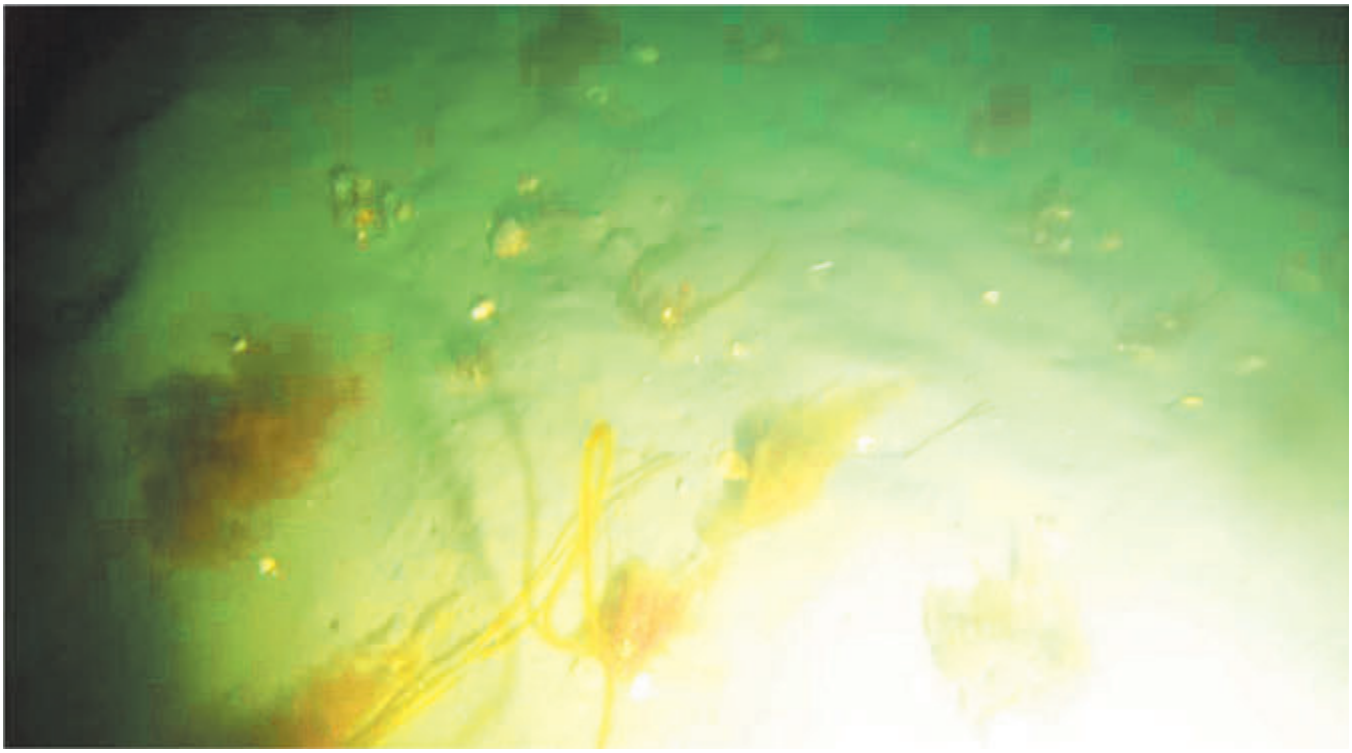

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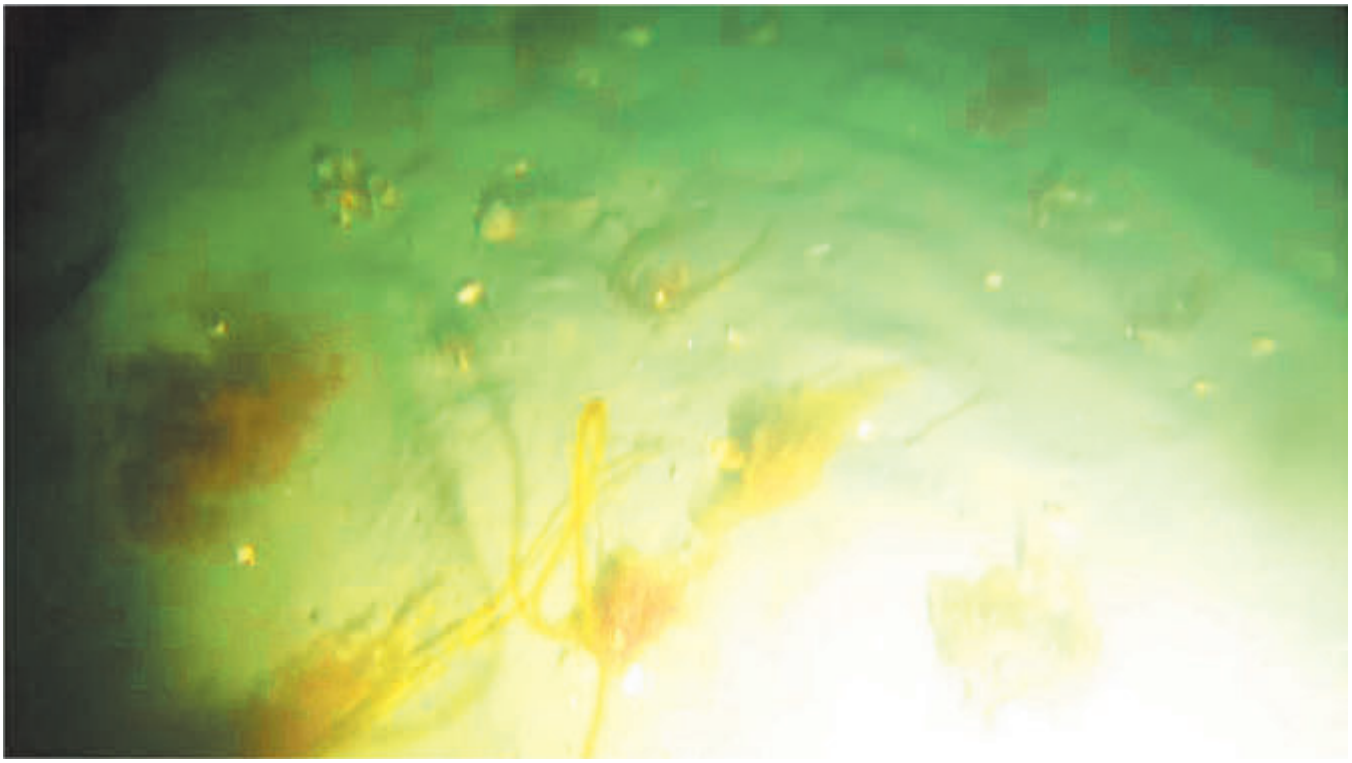

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522CT22-GB084-1

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PICTURE NOT AVAILABLE

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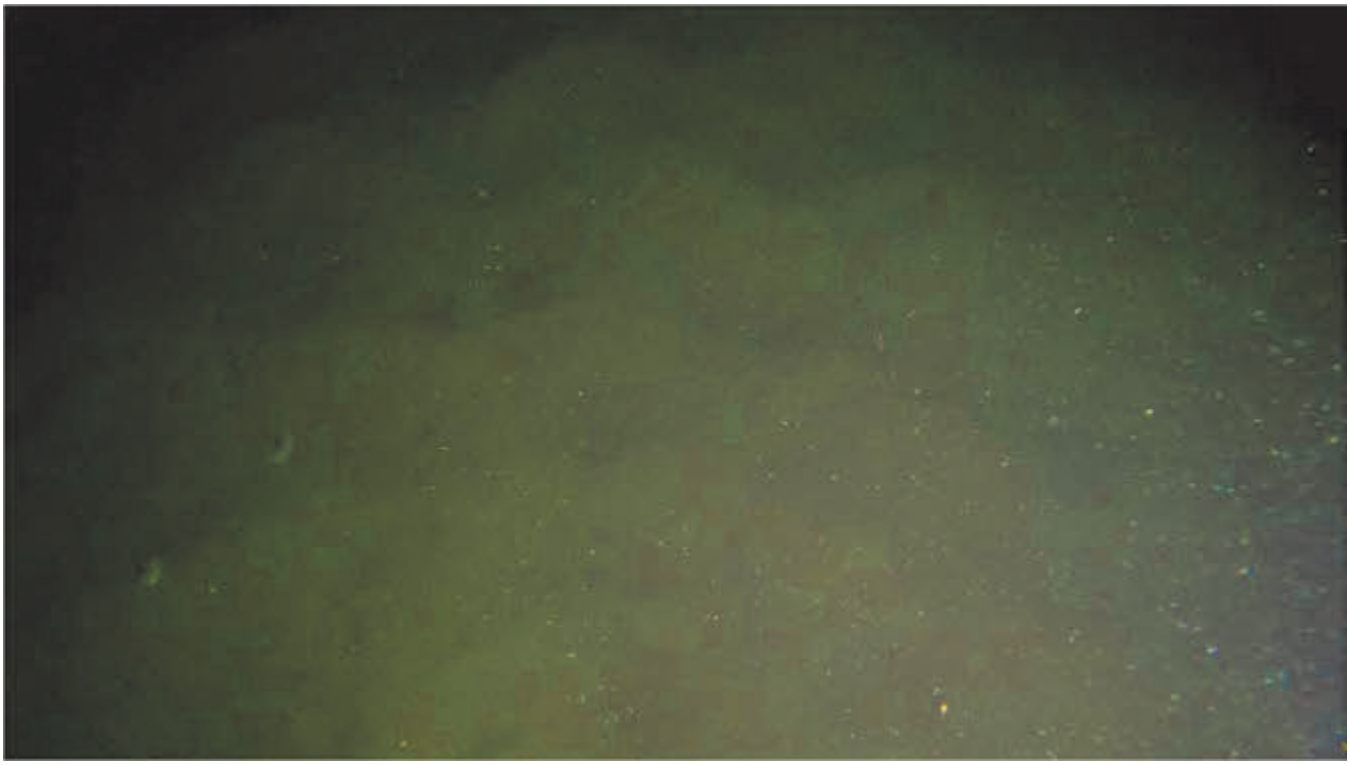

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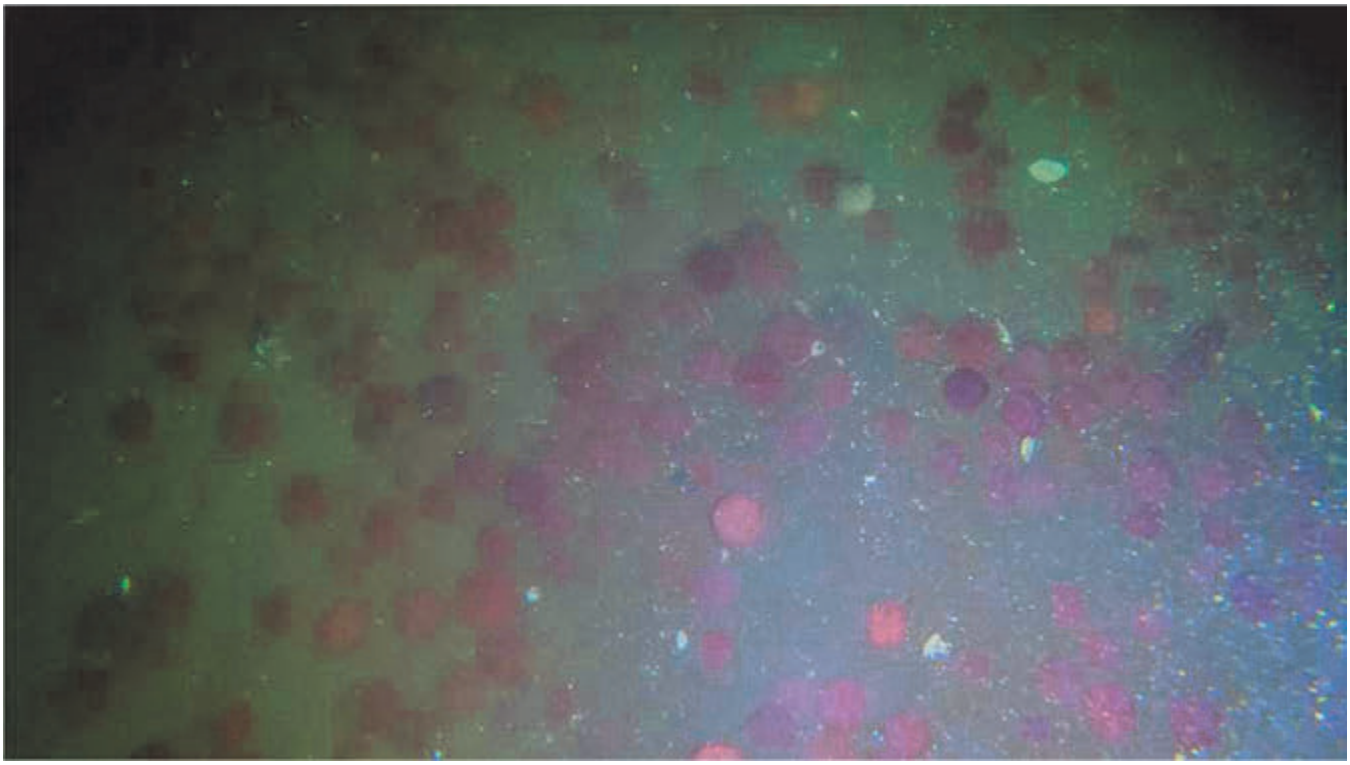

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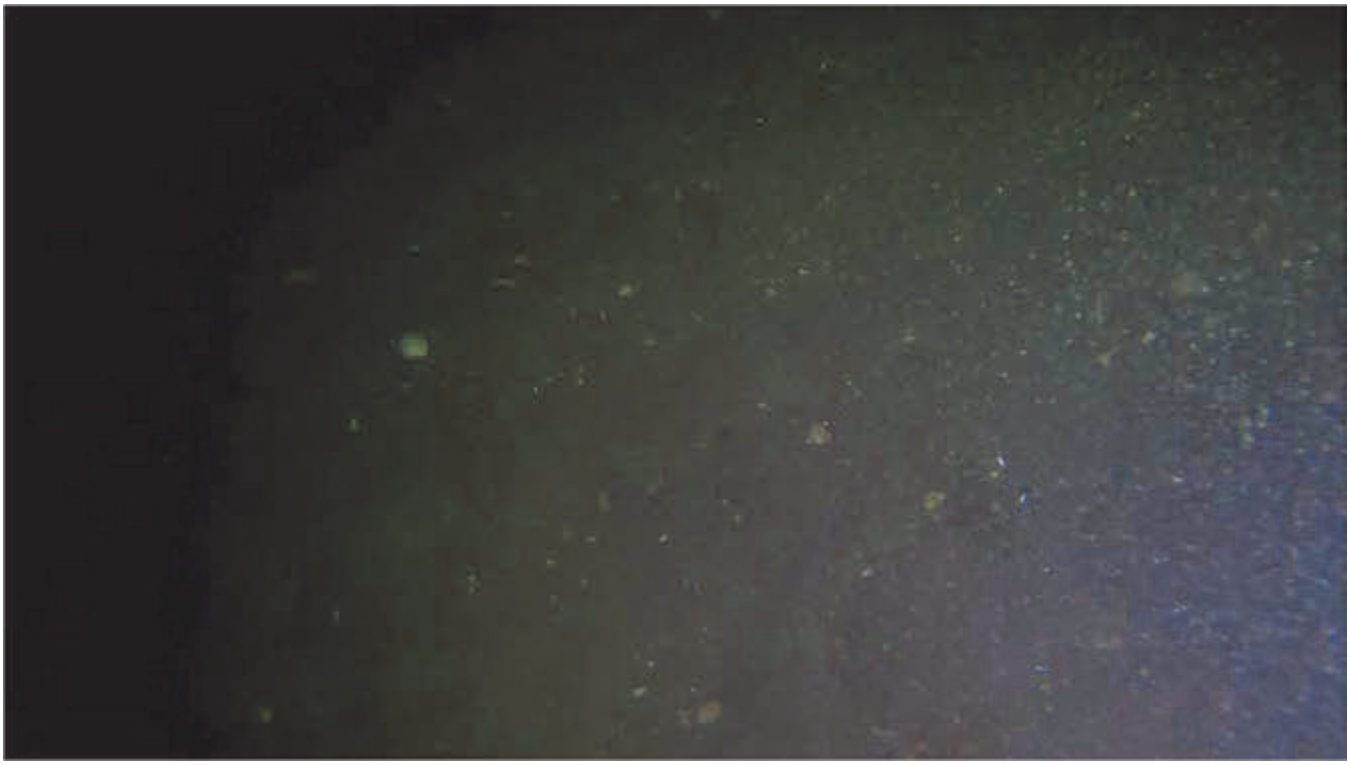

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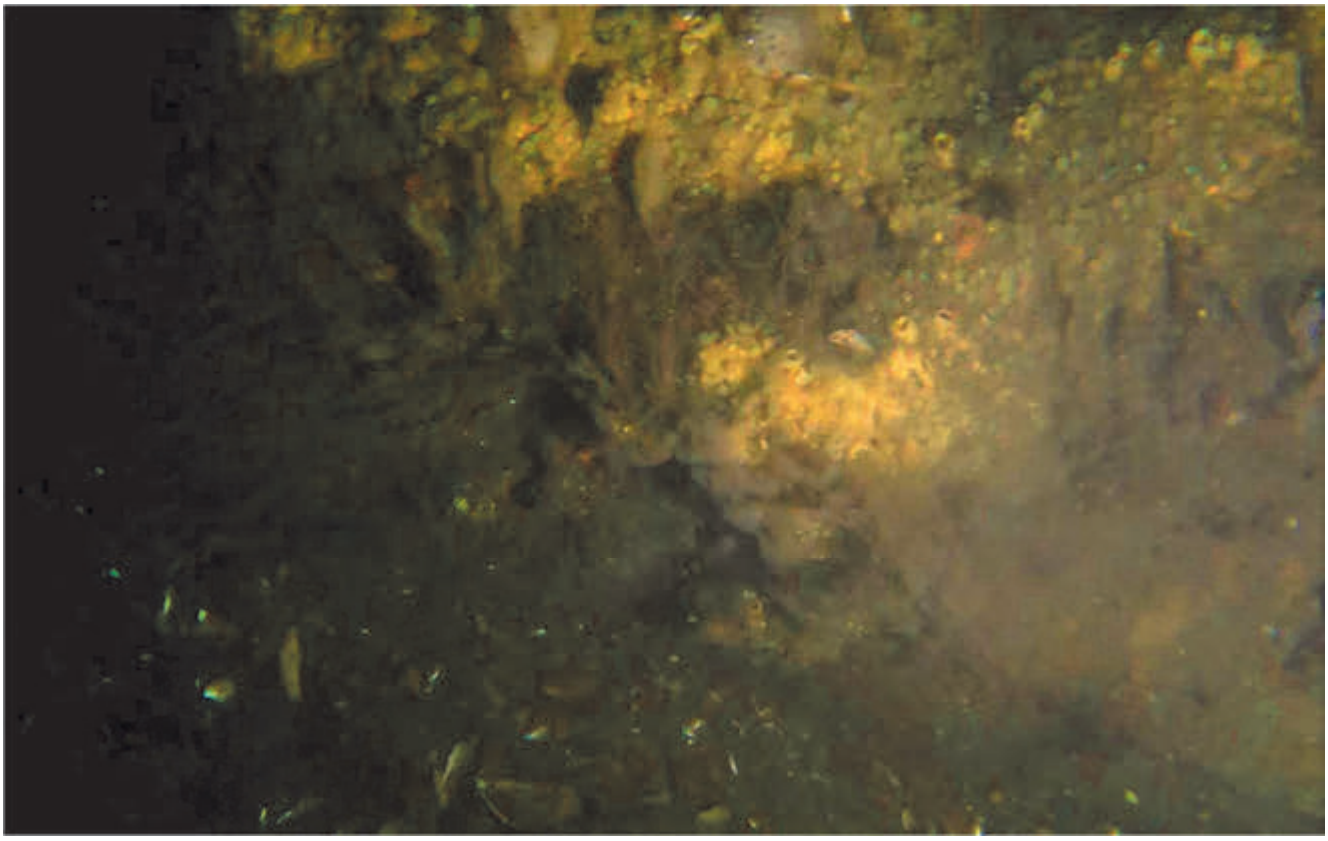

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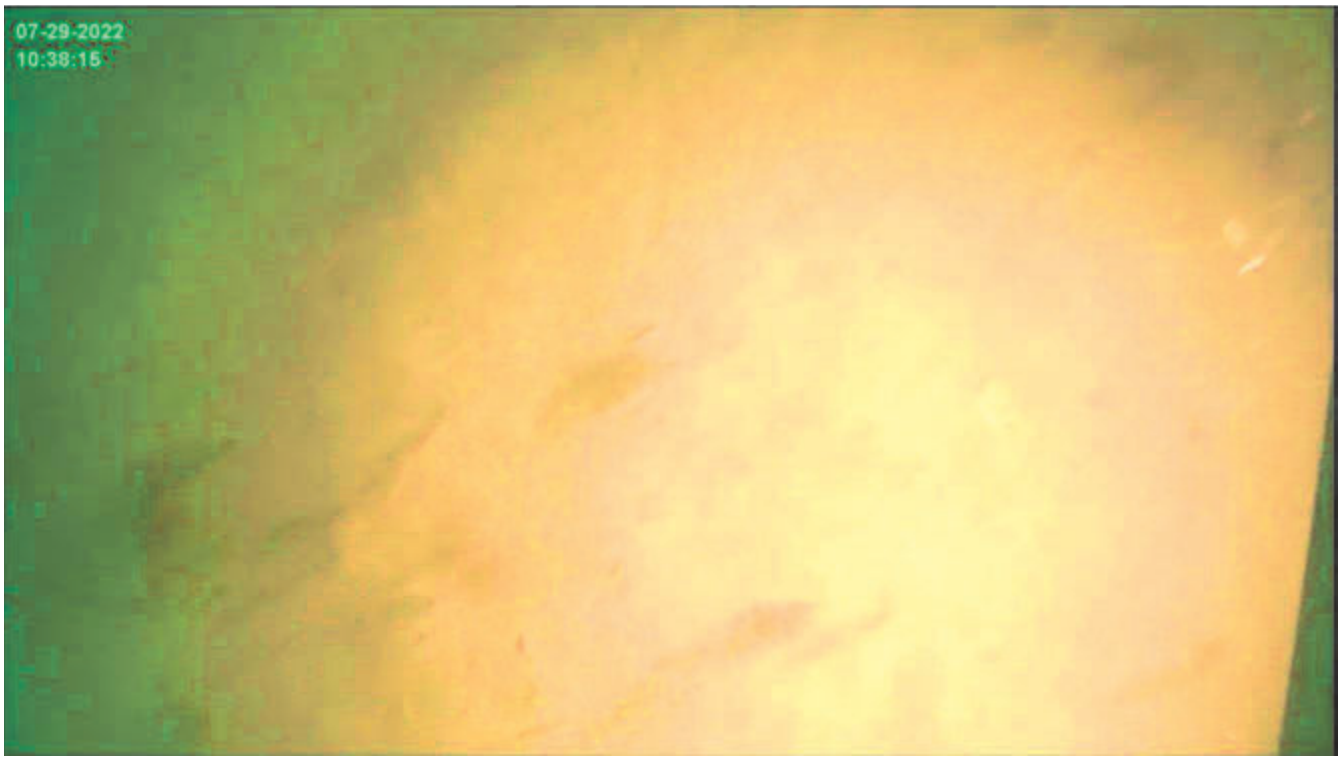

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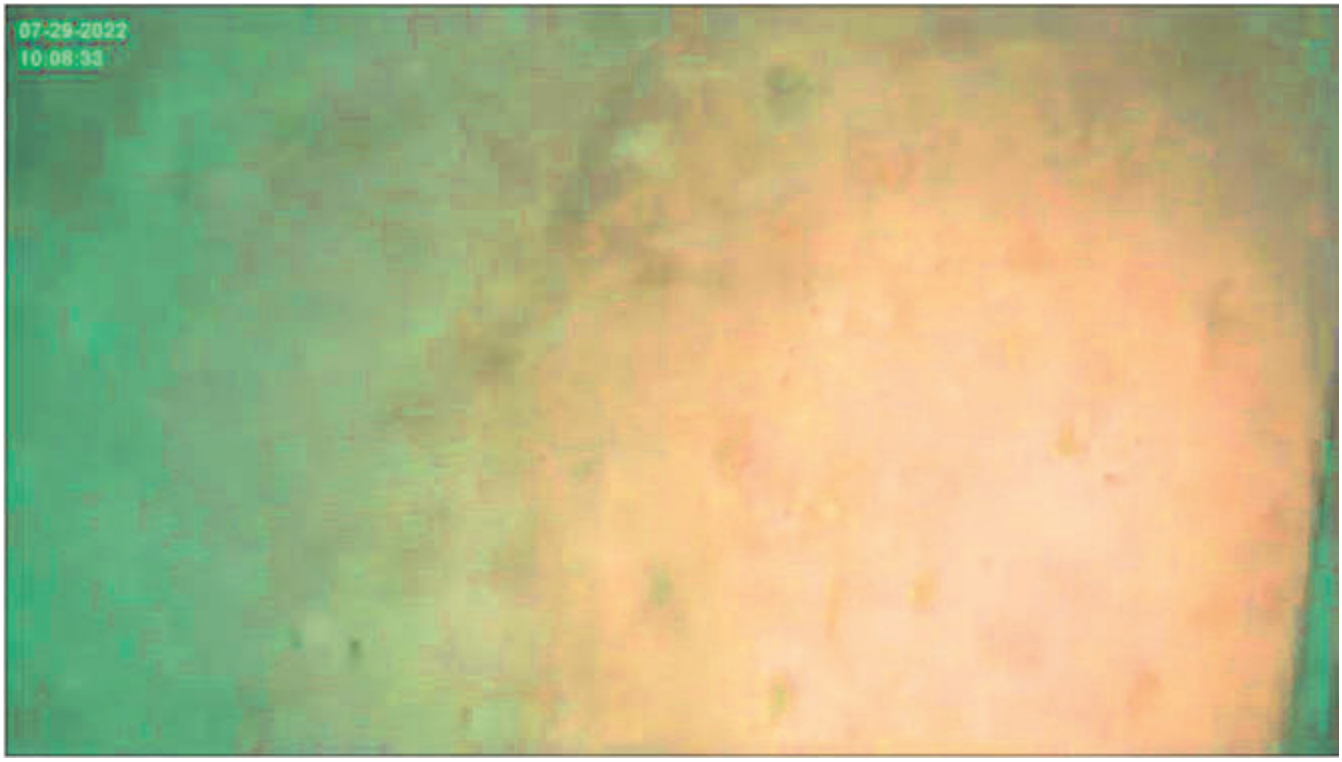

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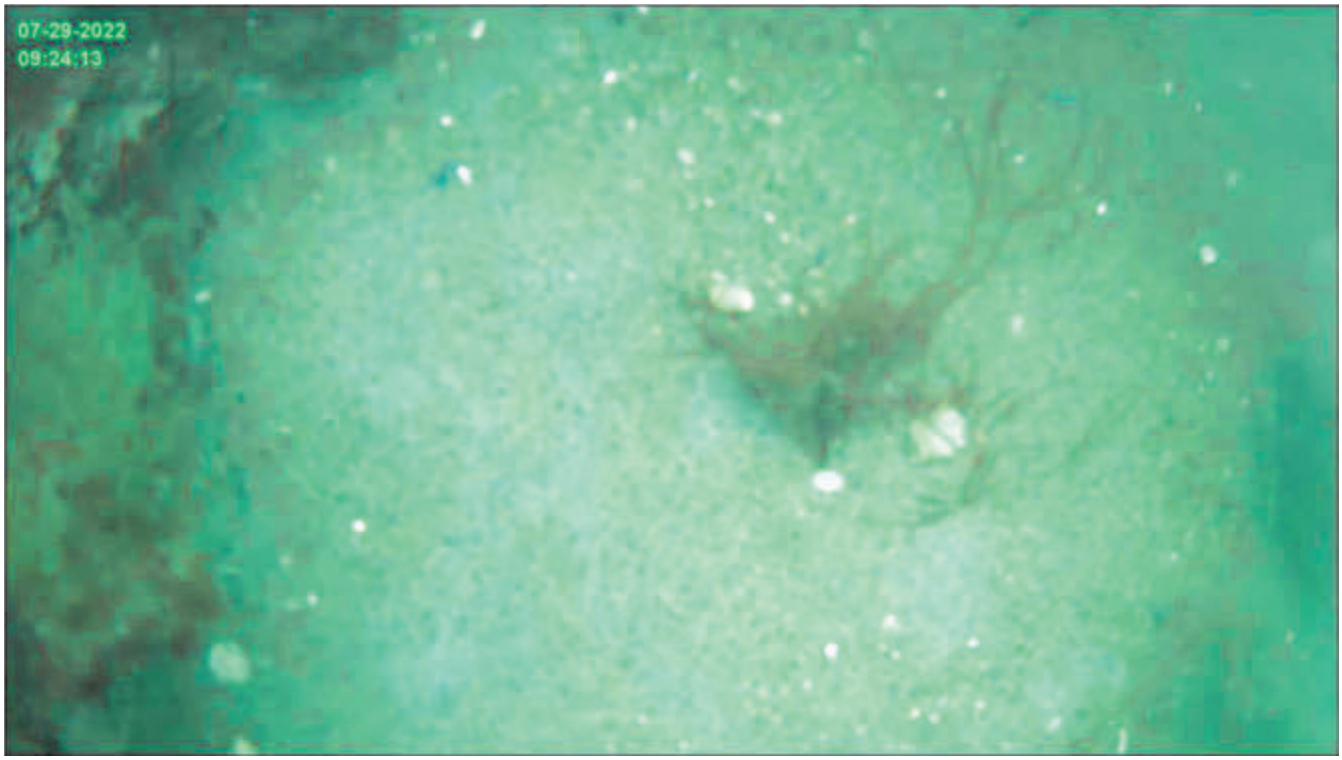

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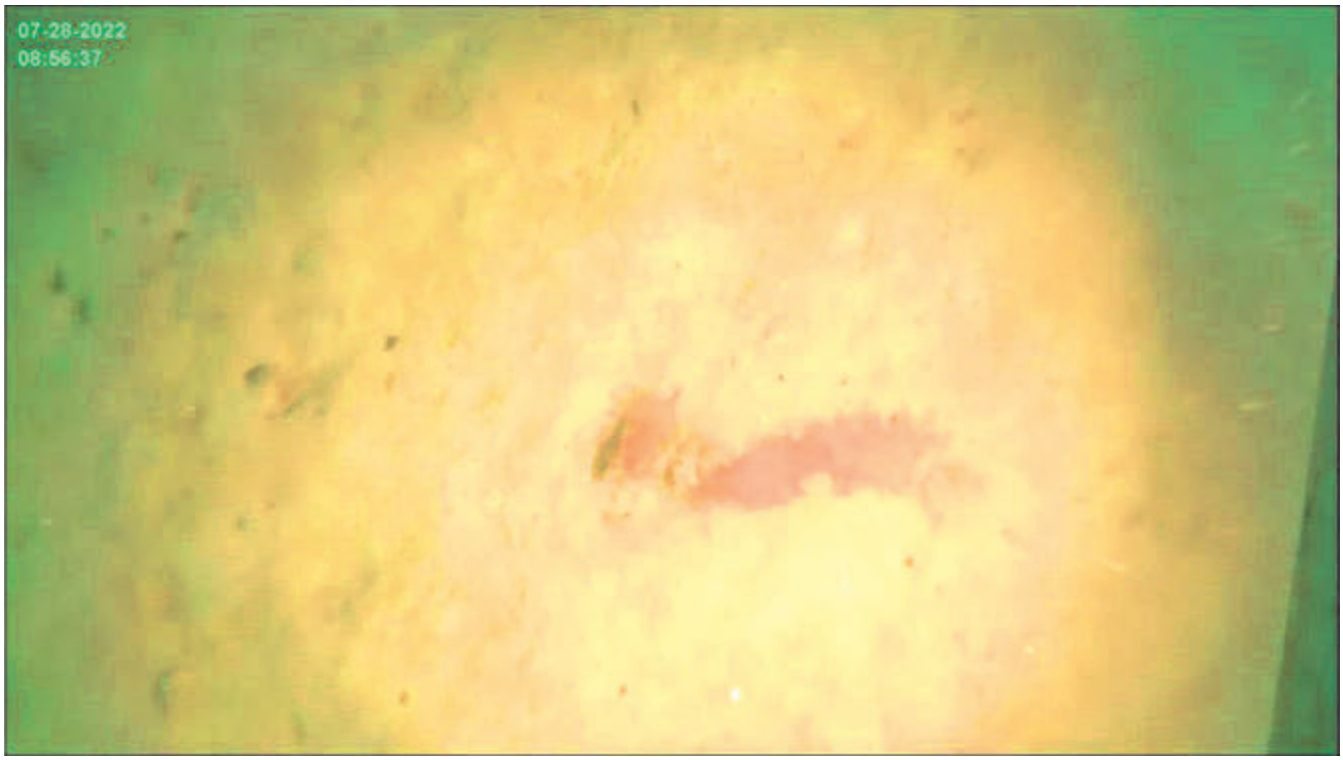

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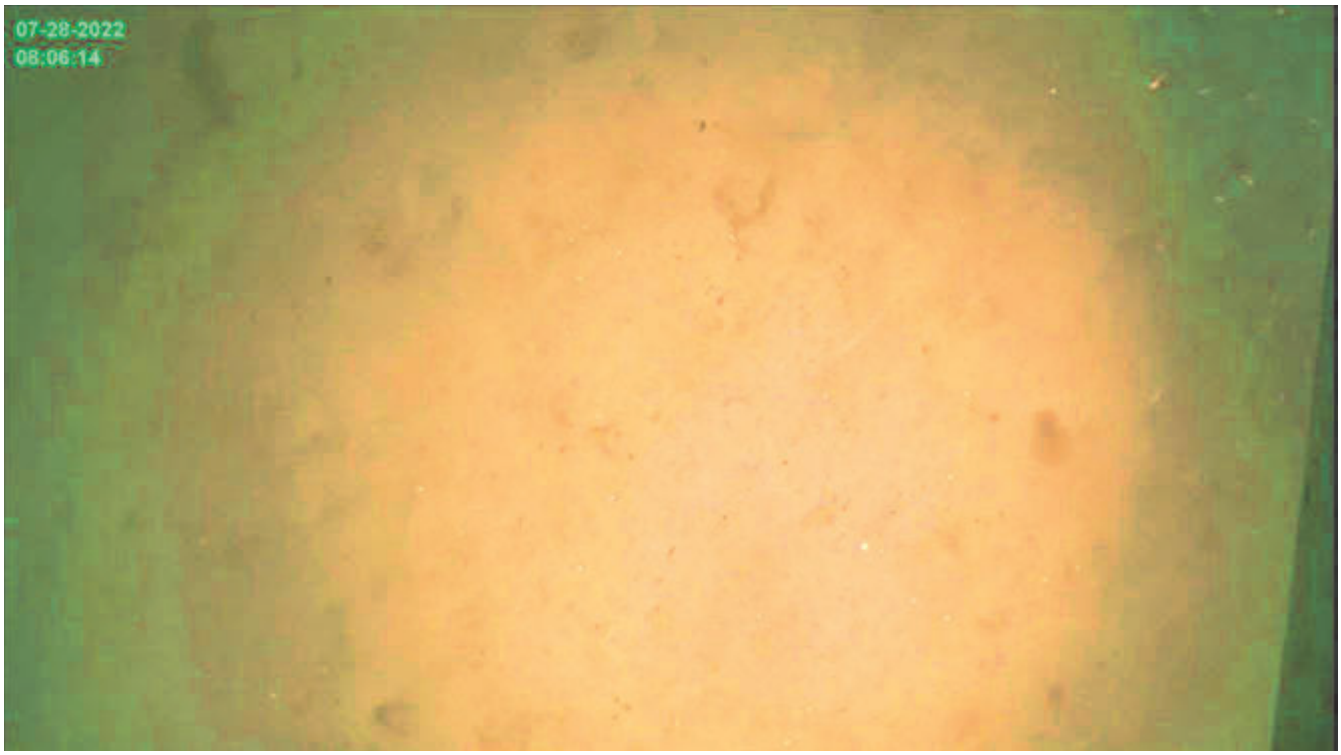

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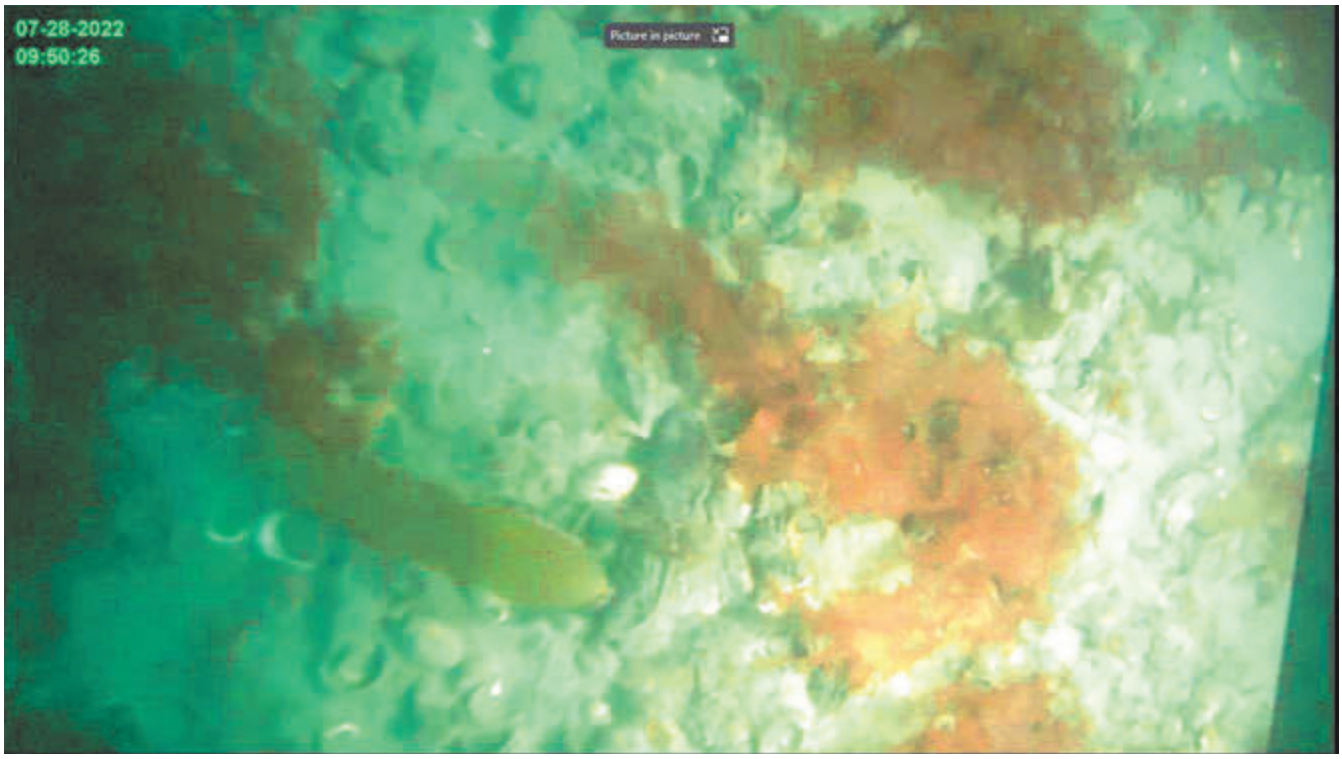

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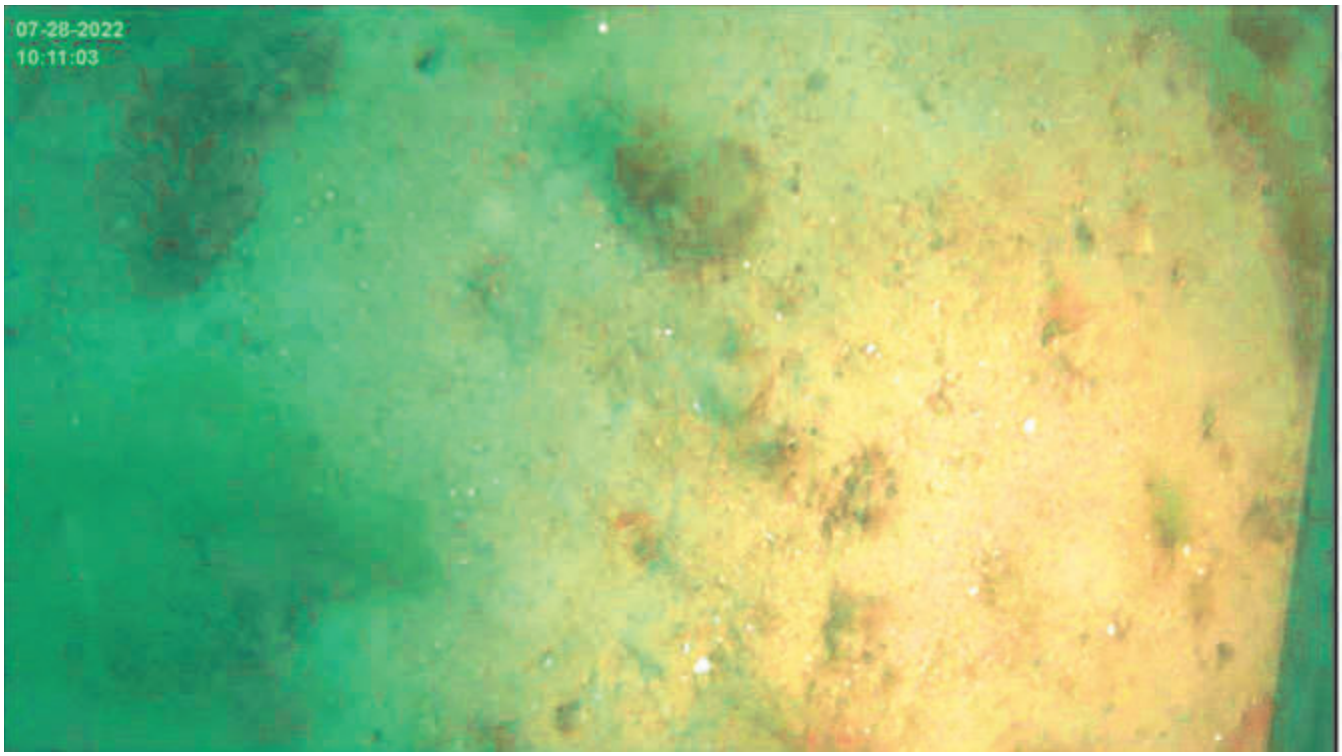

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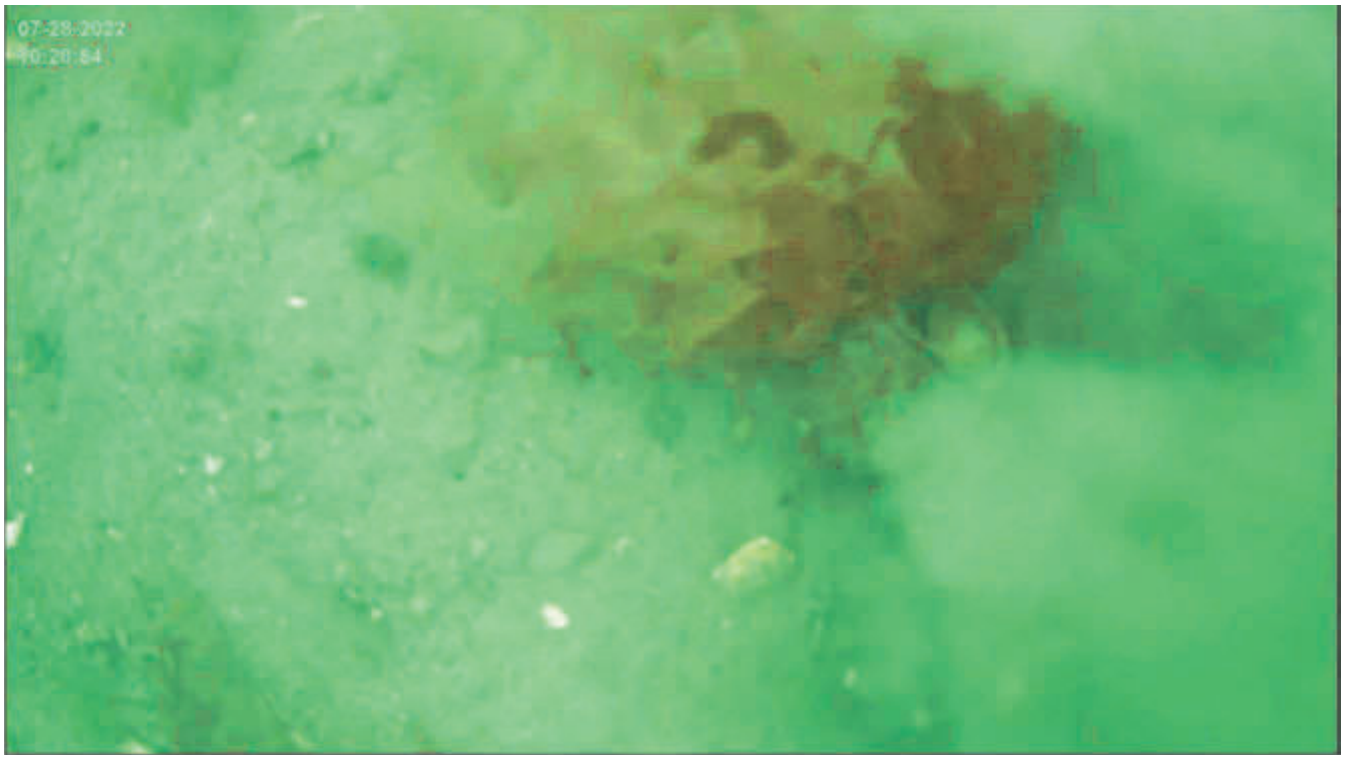

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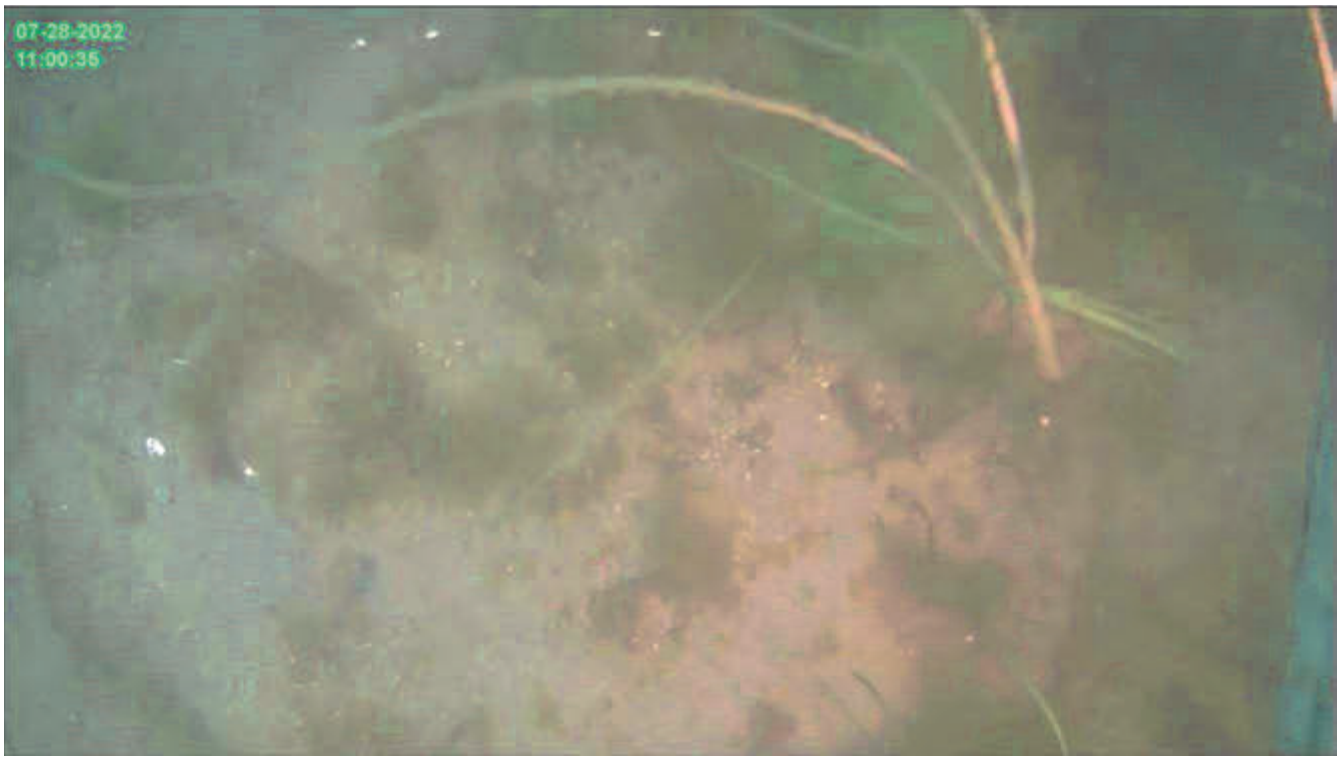


Appendix J-1: Particle Size Distribution from Grabs: 522 Lease Area

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522LA22-GB001-1	Lease Area	0.00	97.63	2.26	0.11
522LA22-GB002A-1		0.00	97.51	2.49	0.00
522LA22-GB002B-1		0.00	95.73	4.27	0.00
522LA22-GB002C-1		0.00	97.06	2.94	0.00
522LA22-GB003-1		0.00	98.70	1.30	0.00
522LA22-GB004-1		0.00	98.72	1.28	0.00
522LA22-GB005-1		0.00	97.86	2.04	0.09
522LA22-GB006-1		0.00	99.80	0.17	0.02
522LA22-GB007-1		0.00	99.39	0.57	0.04
522LA22-GB008A-2		0.00	99.13	0.87	0.00
522LA22-GB008B-1		0.12	99.29	0.59	0.00
522LA22-GB008C-1		2.04	15.25	0.18	82.52
522LA22-GB009-1		0.00	93.43	6.57	0.00
522LA22-GB010-1		0.00	99.65	0.19	0.16
522LA22-GB011-1		0.00	99.12	0.88	0.00
522LA22-GB012-1		0.00	99.79	0.17	0.04
522LA22-GB013A-1		0.00	96.90	2.82	0.28
522LA22-GB013B-1		0.14	97.09	2.78	0.00
522LA22-GB013C-1		0.05	97.18	2.71	0.06
522LA22-GB014A-1		0.00	83.27	16.73	0.00
522LA22-GB014B-1		0.01	86.08	13.86	0.05
522LA22-GB014C-1		0.01	87.83	12.16	0.00
522LA22-GB015-1		0.00	98.34	1.66	0.00
522LA22-GB016-1		0.00	89.21	10.79	0.00
522LA22-GB017-1		0.00	96.17	3.82	0.01
522LA22-GB018-1		0.00	93.30	6.67	0.03
522LA22-GB019-1		0.00	93.42	6.56	0.02
522LA22-GB020-1		0.00	84.80	15.20	0.00
522LA22-GB021-1		0.00	86.80	13.20	0.00
522LA22-GB022-1		0.00	85.75	14.25	0.00
522LA22-GB023A-1		0.00	98.66	1.34	0.00
522LA22-GB023B-1		0.00	13.64	0.65	85.70
522LA22-GB023C-1		0.00	5.31	0.12	94.57
522LA22-GB024A-1		0.06	99.30	0.63	0.01
522LA22-GB024B-1		0.00	97.04	0.70	2.26
522LA22-GB024C-1		0.10	86.91	0.53	12.46
522LA22-GB025A-1		0.00	99.13	0.74	0.13
522LA22-GB025B-1		0.00	99.45	0.54	0.01
522LA22-GB025C-1		0.00	99.47	0.53	0.00

Appendix J-2: Particle Size Distribution from Grabs: MA OECC

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522MA22-GB001-1	MA OECC	1.30	98.49	0.20	0.01
522MA22-GB002A-1		0.00	94.30	5.70	0.01
522MA22-GB002B-1		0.01	94.75	5.24	0.00
522MA22-GB002C-1		0.00	94.28	5.72	0.00
522MA22-GB003-3		0.01	92.32	7.60	0.07
522MA22-GB004A-1		1.86	96.11	0.03	2.00
522MA22-GB004B-1		6.33	93.33	0.09	0.25
522MA22-GB004C-1		0.23	99.71	0.06	0.01
522MA22-GB005-2		16.35	83.44	0.06	0.15
522MA22-GB006A-1		0.00	99.56	0.44	0.00
522MA22-GB006B-1		0.01	99.52	0.35	0.12
522MA22-GB006C-1		0.08	99.58	0.35	0.00
522MA22-GB007-1		26.70	72.86	0.32	0.12
522MA22-GB008A-1		0.23	99.11	0.65	0.02
522MA22-GB008B-1		0.07	99.16	0.75	0.02
522MA22-GB008C-1		0.00	99.62	0.37	0.00
522MA22-GB009-1		0.15	98.32	1.48	0.05
522MA22-GB010B-1		62.54	37.39	0.03	0.04
522MA22-GB011-1		0.12	99.26	0.62	0.00
522MA22-GB012A-1		0.17	99.67	0.08	0.08
522MA22-GB012B-1		2.40	97.23	0.24	0.13
522MA22-GB012C-1		0.00	99.83	0.17	0.00
522MA22-GB013-1		0.01	99.82	0.13	0.03
522MA22-GB014A-1		42.77	55.56	0.01	1.66
522MA22-GB014B-1		58.23	40.68	0.01	1.08
522MA22-GB015-1		0.00	98.43	1.30	0.28
522MA22-GB016A-1		1.10	98.55	0.26	0.10
522MA22-GB016B-1		0.61	99.21	0.03	0.15
522MA22-GB016C-1		6.88	92.65	0.36	0.10
522MA22-GB017-1		0.00	73.45	26.54	0.00
522MA22-GB018A-1		0.14	86.89	12.96	0.00
522MA22-GB018B-1		0.25	91.03	8.71	0.01
522MA22-GB018C-1		0.61	90.16	9.22	0.00
522MA22-GB019-1		0.52	96.67	2.55	0.27
522MA22-GB020A-1		0.00	98.59	0.64	0.78
522MA22-GB020B-1		0.00	98.31	1.20	0.48
522MA22-GB020C-1		0.00	97.26	2.20	0.54
522MA22-GB021-1		0.14	89.01	10.78	0.07
522MA22-GB022A-1		48.66	51.16	0.05	0.14
522MA22-GB022B-1		59.83	37.88	2.12	0.17
522MA22-GB022C-1		26.75	73.08	0.06	0.11
522MA22-GB023-1		49.84	50.06	0.01	0.08
522MA22-GB024A-1		5.92	93.97	0.03	0.08
522MA22-GB024B-1		15.28	84.17	0.02	0.53

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522MA22-GB024C-1	MA OECC	49.57	50.20	0.01	0.21
522MA22-GB025-1		4.71	95.28	0.01	0.00
522MA22-GB026A-1		0.00	99.92	0.07	0.01
522MA22-GB026B-1		0.00	99.96	0.03	0.00
522MA22-GB026C-1		0.00	99.67	0.25	0.08
522MA22-GB027-1		5.48	94.30	0.00	0.22
522MA22-GB028A-1		0.07	99.50	0.43	0.00
522MA22-GB028B-1		0.00	99.83	0.16	0.01
522MA22-GB028C-1		0.00	99.50	0.48	0.02
522MA22-GB029-1		2.58	96.72	0.02	0.68
522MA22-GB030A-1		1.03	98.83	0.02	0.11
522MA22-GB030B-1		0.45	99.49	0.00	0.05
522MA22-GB030C-1		0.40	99.46	0.00	0.14
522MA22-GB031-1		24.39	75.50	0.11	0.00
522MA22-GB032A-1		12.29	87.66	0.03	0.02
522MA22-GB032B-1		5.19	94.65	0.04	0.12
522MA22-GB032C-1		9.26	90.66	0.07	0.00
522MA22-GB033-1		1.04	98.86	0.03	0.06
522MA22-GB034A-1		0.00	97.96	1.96	0.08
522MA22-GB034B-1		0.05	97.53	2.39	0.03
522MA22-GB034C-1		0.04	98.43	1.50	0.03
522MA22-GB035-1		0.45	98.36	0.87	0.32
522MA22-GB036A-1		0.00	99.82	0.12	0.06
522MA22-GB036B-1		0.00	99.73	0.19	0.08
522MA22-GB036C-1		0.00	99.46	0.04	0.49
522MA22-GB037-1		0.17	97.64	0.05	2.14
522MA22-GB038A-1		0.04	99.66	0.02	0.27
522MA22-GB038B-1		0.04	99.59	0.02	0.35
522MA22-GB038C-1		0.06	99.02	0.01	0.90
522MA22-GB039-1		0.14	99.41	0.11	0.34
522MA22-GB040A-1		0.04	99.55	0.33	0.08
522MA22-GB040B-1		0.05	99.52	0.37	0.06
522MA22-GB040C-1		0.00	98.87	1.06	0.07
522MA22-GB041-1		0.09	99.58	0.23	0.10
522MA22-GB042A-1		0.20	98.24	1.54	0.02
522MA22-GB042B-1		0.10	98.61	1.20	0.09
522MA22-GB042C-1		0.17	98.83	0.91	0.09
522MA22-GB043-1		0.00	97.96	2.02	0.01
522MA22-GB044A-1		0.01	99.33	0.41	0.25
522MA22-GB044B-1		0.00	98.77	1.18	0.05
522MA22-GB044C-1		0.01	99.72	0.23	0.04
522MA22-GB045-1		0.00	99.32	0.55	0.13
522MA22-GB046A-1		0.00	99.95	0.05	0.00
522MA22-GB046B-1		0.00	99.96	0.02	0.01

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522MA22-GB046C-1	MA OECC	0.00	99.82	0.14	0.04
522MA22-GB047-1		0.00	97.41	2.55	0.04
522MA22-GB048A-1		0.00	98.92	1.08	0.00
522MA22-GB048B-1		0.00	99.66	0.34	0.00
522MA22-GB048C-1		0.00	99.39	0.49	0.11
522MA22-GB049A-1		0.00	97.26	2.74	0.00
522MA22-GB049B-1		0.00	94.87	5.13	0.00
522MA22-GB049C-1		0.00	94.87	5.13	0.00
522MA22-GB050A-1		0.00	84.53	15.47	0.00
522MA22-GB050B-1		0.00	80.40	19.60	0.00
522MA22-GB050C-1		0.00	89.45	10.55	0.00
522MA22-GB051A-1		0.15	98.64	1.06	0.15
522MA22-GB051B-1		0.30	93.54	6.16	0.00
522MA22-GB051C-1		0.71	94.53	4.76	0.00
522MA22-GB052A-1		0.00	92.94	7.04	0.02
522MA22-GB052B-1		0.03	89.84	10.13	0.00
522MA22-GB052C-1		0.00	90.31	9.69	0.00
522MA22-GB053A-1		0.00	94.95	5.05	0.00
522MA22-GB053B-1		0.00	82.85	17.15	0.00
522MA22-GB053C-1		0.00	97.43	2.54	0.03
522MA22-GB054A-1		0.00	99.90	0.10	0.00
522MA22-GB054B-1		0.00	99.76	0.23	0.01
522MA22-GB054C-1		0.00	99.63	0.33	0.04
522MA22-GB055A-2		34.27	61.42	4.19	0.13
522MA22-GB055B-1		10.58	87.67	1.22	0.52
522MA22-GB055C-1		53.99	45.11	0.43	0.47
522MA22-GB057A-1		0.00	93.93	5.91	0.16
522MA22-GB057B-1		1.99	89.51	8.47	0.03
522MA22-GB057C-1		0.06	92.82	7.12	0.00

Appendix J-3: Particle Size Distribution from Grabs: CT OECC

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522CT22-GB001A-1	CT OECC	0.00	74.30	25.70	0.00
522CT22-GB001B-1		0.00	63.97	36.03	0.00
522CT22-GB001C-1		0.01	75.73	24.27	0.00
522CT22-GB002-1		0.00	76.35	23.65	0.00
522CT22-GB003A-1		0.00	72.53	27.47	0.00
522CT22-GB003B-1		0.00	63.07	36.93	0.00
522CT22-GB003C-1		0.00	73.38	26.62	0.00
522CT22-GB004-1		0.00	71.61	28.39	0.00
522CT22-GB005A-1		0.00	69.88	30.12	0.00
522CT22-GB005B-1		0.00	67.91	32.09	0.00
522CT22-GB005C-1		0.00	66.06	33.94	0.00
522CT22-GB006-1		0.00	76.54	23.45	0.01
522CT22-GB007A-1		0.06	84.65	15.30	0.00
522CT22-GB007B-1		0.00	76.20	23.80	0.00
522CT22-GB007C-2		0.02	81.91	17.93	0.14
522CT22-GB008-1		0.00	67.72	32.28	0.00
522CT22-GB009A-1		0.00	58.48	41.52	0.00
522CT22-GB009B-1		0.00	78.59	21.41	0.00
522CT22-GB009C-1		0.00	57.56	42.44	0.00
522CT22-GB010-1		0.00	69.43	30.57	0.00
522CT22-GB011A-1		0.00	74.92	25.08	0.00
522CT22-GB011B-1		0.02	78.10	21.88	0.00
522CT22-GB011C-1		0.02	75.50	24.48	0.00
522CT22-GB012-1		0.00	80.37	19.63	0.00
522CT22-GB013A-1		0.01	82.02	17.97	0.00
522CT22-GB013B-1		0.00	87.79	12.21	0.00
522CT22-GB013C-1		0.00	85.69	14.30	0.00
522CT22-GB014-1		0.00	75.49	24.51	0.00
522CT22-GB015A-1		0.01	87.71	12.27	0.00
522CT22-GB015B-1		0.14	82.95	16.91	0.00
522CT22-GB015C-1		0.00	88.76	11.24	0.00
522CT22-GB016-1		0.00	78.92	21.08	0.00
522CT22-GB017A-1		6.39	93.09	0.52	0.00
522CT22-GB017B-1		7.28	92.18	0.54	0.00
522CT22-GB017C-1		1.69	97.90	0.40	0.00
522CT22-GB018-1		0.34	99.51	0.08	0.07
522CT22-GB019A-1		0.23	95.25	4.52	0.00
522CT22-GB019B-1		0.06	93.87	6.08	0.00
522CT22-GB019C-1		0.16	96.48	3.36	0.00
522CT22-GB020-1		0.43	95.23	4.30	0.04
522CT22-GB021A-1		0.22	99.15	0.63	0.00
522CT22-GB021B-1		0.07	99.83	0.10	0.00
522CT22-GB021C-1		0.04	99.62	0.34	0.00
522CT22-GB022-1		0.04	95.53	4.42	0.01
522CT22-GB023A-1		4.14	91.36	4.51	0.00
522CT22-GB023B-1		0.84	92.53	6.63	0.00
522CT22-GB023C-1		0.72	94.52	4.76	0.00
522CT22-GB024-1		2.69	96.68	0.54	0.10
522CT22-GB025A-1		1.06	95.30	0.24	3.39
522CT22-GB025B-1		0.30	97.90	0.09	1.71
522CT22-GB025C-1		0.28	98.20	0.14	1.39
522CT22-GB026-1		0.46	98.12	0.21	1.21
522CT22-GB027A-1		0.01	99.69	0.23	0.07
522CT22-GB027B-1		0.01	99.73	0.26	0.00
522CT22-GB027C-1		0.02	99.15	0.31	0.52
522CT22-GB028-1		17.45	80.95	0.01	1.59
522CT22-GB029A-1		0.17	97.96	0.06	1.81
522CT22-GB029B-1		1.68	98.29	0.03	0.00
522CT22-GB029C-1		0.89	98.97	0.07	0.07
522CT22-GB030-1		0.24	98.84	0.03	0.89
522CT22-GB031A-1		0.00	95.66	3.05	1.29
522CT22-GB031B-1		0.00	96.48	2.67	0.84
522CT22-GB031C-1		0.00	92.35	2.92	4.72
522CT22-GB032-1		7.88	92.01	0.00	0.10
522CT22-GB033A-2		66.06	26.16	0.02	7.76
522CT22-GB034-1		27.71	64.13	0.01	8.15
522CT22-GB035A-1		41.97	53.02	0.28	4.73
522CT22-GB035B-1		36.42	57.29	0.26	6.04
522CT22-GB035C-2		24.58	62.45	0.23	12.74
522CT22-GB036-1		12.51	86.68	0.02	0.79
522CT22-GB038-1		0.04	99.40	0.07	0.49

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522CT22-GB039A-1	CT OECC	0.00	99.74	0.07	0.19
522CT22-GB039B-1		0.00	99.96	0.01	0.03
522CT22-GB039C-1		0.01	99.85	0.09	0.06
522CT22-GB040-1		6.84	90.52	0.60	2.04
522CT22-GB041A-1		0.04	99.59	0.08	0.29
522CT22-GB041B-1		0.08	99.37	0.17	0.39
522CT22-GB041C-1		0.55	98.91	0.05	0.48
522CT22-GB042-1		0.00	99.11	0.01	0.88
522CT22-GB043A-1		4.33	93.58	1.80	0.29
522CT22-GB043B-1		2.08	96.65	0.65	0.62
522CT22-GB043C-1		3.04	95.75	0.49	0.72
522CT22-GB044-1		20.06	74.44	0.17	5.33
522CT22-GB045A-1		54.70	42.65	0.30	2.34
522CT22-GB045B-1		50.21	48.84	0.11	0.84
522CT22-GB045C-1		48.97	50.34	0.43	0.26
522CT22-GB046-1		2.63	79.48	0.06	17.83
522CT22-GB047A-1		40.91	52.00	0.29	6.80
522CT22-GB047B-1		88.46	9.14	0.07	2.34
522CT22-GB048-1		4.04	80.99	0.05	14.92
522CT22-GB050-1		2.14	92.17	0.21	5.49
522CT22-GB051A-1		40.82	48.16	0.49	10.53
522CT22-GB051B-2		24.75	72.71	0.80	1.74
522CT22-GB051C-1		51.57	47.96	0.47	0.00
522CT22-GB052-1		34.90	61.19	0.57	3.34
522CT22-GB053A-1		54.54	40.70	0.44	4.32
522CT22-GB053B-2		40.10	52.73	0.24	6.93
522CT22-GB053C-1		59.76	27.11	0.16	12.97
522CT22-GB054-1		42.33	49.73	0.13	7.82
522CT22-GB055A-2		34.15	51.22	0.40	14.22
522CT22-GB055B-1		29.55	53.26	0.29	16.89
522CT22-GB055C-1		42.62	48.33	0.46	8.58
522CT22-GB056-1		41.88	52.15	0.29	5.68
522CT22-GB057A-1		32.77	57.39	0.55	9.29
522CT22-GB057B-1		31.86	62.41	0.65	5.08
522CT22-GB057C-1		47.95	46.49	0.68	4.88
522CT22-GB058-1		8.29	80.75	0.70	10.26
522CT22-GB059A-1		9.63	78.95	0.31	11.10
522CT22-GB059B-1		33.06	64.90	0.52	1.52
522CT22-GB059C-1		37.56	56.14	0.31	5.99
522CT22-GB060-1		11.48	85.69	0.82	2.01
522CT22-GB061A-1		18.40	73.11	0.23	8.25
522CT22-GB061B-1		23.54	71.83	0.32	4.30
522CT22-GB061C-1		16.72	79.65	0.28	3.36
522CT22-GB062-1		28.97	62.58	0.31	8.14
522CT22-GB063A-1		11.76	85.75	0.14	2.35
522CT22-GB063B-1		4.81	92.47	0.11	2.62
522CT22-GB063C-1		12.92	82.32	0.30	4.46
522CT22-GB064-1		1.04	81.25	4.05	13.66
522CT22-GB065A-1		0.12	92.31	7.51	0.06
522CT22-GB065B-1		0.00	92.44	7.56	0.00
522CT22-GB065C-1		0.00	89.89	10.11	0.00
522CT22-GB066-1		0.00	79.29	20.71	0.00
522CT22-GB067A-1		0.00	54.74	45.24	0.02
522CT22-GB067B-1		0.03	50.52	49.45	0.00
522CT22-GB067C-1		0.00	48.71	51.29	0.00
522CT22-GB068A-1		4.84	58.25	21.19	15.72
522CT22-GB068B-1		4.47	58.75	23.85	12.93
522CT22-GB068C-1		0.00	58.42	20.67	20.91
522CT22-GB069A-1		97.46	2.34	0.00	0.20
522CT22-GB069C-1		79.73	20.18	0.09	0.00
522CT22-GB071A-1		7.99	86.30	0.12	5.58
522CT22-GB071B-1		1.12	87.33	0.13	11.43
522CT22-GB071C		0.13	88.85	0.02	11.00
522CT22-GB072-1		0.37	98.47	0.60	0.56
522CT22-GB072-3A-1		0.20	97.38	0.78	1.65
522CT22-GB072-3B-1		0.66	93.97	1.75	3.62
522CT22-GB072-3C-1		0.47	96.34	0.33	2.87
522CT22-GB073A-1		0.30	96.10	2.81	0.79
522CT22-GB073B-1		0.00	97.33	2.26	0.41
522CT22-GB073C-1		0.26	95.72	4.00	0.02
522CT22-GB074-1		1.39	95.25	3.22	0.13

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522CT22-GB074-3A-1	CT OECC	0.99	93.86	4.07	1.08
522CT22-GB074-3B-1		0.48	96.48	2.02	1.02
522CT22-GB074-3C-1		0.05	91.58	8.37	0.00
522CT22-GB075A-1		0.34	96.20	2.34	1.13
522CT22-GB075B-1		2.60	88.72	2.41	6.27
522CT22-GB075C-1		1.08	96.06	1.93	0.94
522CT22-GB076-1		1.40	91.87	5.81	0.92
522CT22-GB077A-1		2.68	88.65	8.36	0.30
522CT22-GB077B-1		3.04	89.02	7.00	0.95
522CT22-GB077C-1		7.36	86.00	6.40	0.24
522CT22-GB078-1		0.03	80.03	18.67	1.27
522CT22-GB079A-1		0.07	97.06	2.87	0.00
522CT22-GB079B-1		1.11	95.34	3.55	0.00
522CT22-GB079C-1		0.00	97.41	2.55	0.04
522CT22-GB080-1		0.00	96.64	3.35	0.01
522CT22-GB080-3A-1		0.00	92.78	7.22	0.00
522CT22-GB080-3B-1		0.00	92.52	7.48	0.00
522CT22-GB080-3C-1		0.00	93.80	6.20	0.00
522CT22-GB081A-1		0.00	37.70	2.83	59.47
522CT22-GB081B-1		0.00	57.14	3.41	39.45
522CT22-GB081C-1		0.00	62.61	3.45	33.94
522CT22-GB082-1		0.05	95.23	3.84	0.88
522CT22-GB082-3A-1		0.00	89.19	7.59	3.22
522CT22-GB082-3B-1		0.94	89.76	7.68	1.62
522CT22-GB082-3C-1		0.00	95.78	3.14	1.08
522CT22-GB083A-1		0.30	94.81	4.87	0.03
522CT22-GB083B-1		4.21	90.46	5.33	0.00
522CT22-GB083C-1		0.74	93.26	6.00	0.00
522CT22-GB084-1		0.61	54.39	9.89	35.11
522CT22-GB085A-1		4.43	88.67	6.89	0.00
522CT22-GB085B-1		5.16	88.50	6.34	0.00
522CT22-GB085C-1		6.44	88.34	5.22	0.00
522CT22-GB086A-2		0.00	99.27	0.47	0.26
522CT22-GB086B-1		0.12	99.22	0.52	0.14
522CT22-GB086C-1		0.00	99.40	0.27	0.33
522CT22-GB087A-1		0.00	99.30	0.66	0.04
522CT22-GB087B-1		0.00	99.40	0.57	0.03
522CT22-GB087C-1		0.00	99.46	0.49	0.06
522CT22-GB088A-1		0.17	95.67	4.16	0.00
522CT22-GB088B-1		0.14	95.86	3.91	0.09
522CT22-GB088C-1		0.12	94.95	4.93	0.00
522CT22-GB089A-1		0.23	99.46	0.15	0.16
522CT22-GB089B-1		0.44	99.22	0.32	0.02
522CT22-GB089C-1		0.00	97.57	0.06	2.37
522CT22-GB090A-1		7.09	87.79	0.17	4.49
522CT22-GB090B-1		5.71	90.36	0.04	3.90
522CT22-GB090C-1		2.25	96.68	0.01	1.06
522CT22-GB091A-1		0.06	99.67	0.27	0.00
522CT22-GB091B-1		0.06	99.72	0.15	0.07
522CT22-GB091C-1		0.00	99.68	0.29	0.03
522CT22-GB092A-1		0.00	99.42	0.26	0.32
522CT22-GB092B-1		0.00	99.28	0.38	0.35
522CT22-GB092C-1		0.00	96.54	0.24	3.22
522CT22-GB093A-1		2.45	77.58	2.77	17.20
522CT22-GB093B-1		0.53	66.16	1.82	31.49
522CT22-GB093C-1		0.84	71.57	1.63	25.95
522CT22-GB094A-1		0.00	99.77	0.22	0.01
522CT22-GB094B-1		0.02	99.84	0.11	0.02
522CT22-GB094C-1		0.00	99.94	0.04	0.01
522CT22-GB095A-1		0.00	99.86	0.02	0.12
522CT22-GB095B-1		0.85	94.47	0.22	4.47
522CT22-GB095C-1		1.87	94.90	0.32	2.92
522CT22-GB096A-1		3.02	93.25	0.17	3.55
522CT22-GB096B-1		1.85	93.69	0.34	4.11
522CT22-GB096C-1		2.18	95.60	0.16	2.07
522CT22-GB097A-1		57.22	35.31	0.30	7.17
522CT22-GB097B-1		60.92	30.31	0.15	8.63
522CT22-GB097C-1		44.89	38.65	0.29	16.17
522CT22-GB098-1A-3		17.96	52.68	0.53	28.83
522CT22-GB098-1B-1		25.51	44.61	0.35	29.54
522CT22-GB098-1C-3		16.49	32.02	0.42	51.07

Sample ID	Project Area	% Gravel	% Sand	% Mud	% Shell
522CT22-GB099A-1	CT OECC	4.52	94.55	0.22	0.71
522CT22-GB099B-1		4.29	93.18	0.28	2.24
522CT22-GB099C-1		5.71	88.02	0.98	5.30
522CT22-GB100A-1		0.00	44.22	55.78	0.00
522CT22-GB100B-1		0.00	44.29	55.71	0.00
522CT22-GB100C-1		0.00	47.60	52.40	0.00
522CT22-GB101A-1		0.00	50.06	49.68	0.25
522CT22-GB101B-1		0.00	49.05	50.86	0.09
522CT22-GB101C-1		0.03	52.15	47.81	0.01
522CT22-GB102A-1		1.07	81.85	14.27	2.80
522CT22-GB102B-1		0.87	79.90	19.13	0.10
522CT22-GB102C-1		4.46	78.47	15.77	1.30
522CT22-GB103A-1		17.99	78.78	2.51	0.72
522CT22-GB103B-1		27.71	69.81	1.82	0.67
522CT22-GB103C-1		32.39	62.60	0.80	4.21
522CT22-GB104A-1		0.00	99.85	0.14	0.01
522CT22-GB104B-1		0.00	99.80	0.16	0.04
522CT22-GB104C-1		0.00	99.31	0.28	0.41
522CT22-GB105A-1		0.00	87.59	11.85	0.56
522CT22-GB105B-1		0.00	76.53	21.53	1.94
522CT22-GB105C-1		0.13	82.55	17.20	0.12
522CT22-GB106A-1		3.88	84.79	11.25	0.08
522CT22-GB106B-1		10.73	76.27	12.57	0.43
522CT22-GB106C-1		11.87	79.14	8.48	0.51
522CT22-GB107A-1		0.00	98.38	1.60	0.02
522CT22-GB107B-1		0.00	98.62	1.29	0.09
522CT22-GB107C-1		0.00	97.44	2.56	0.00
522CT22-GB108A-1		0.00	58.71	41.04	0.25
522CT22-GB108B-1		5.41	66.97	20.95	6.67
522CT22-GB108C-1		0.41	63.05	33.14	3.40
522CT22-GB109A-1		10.42	51.33	23.93	14.32
522CT22-GB109B-1		2.67	52.00	22.84	22.48
522CT22-GB109C-1		0.66	52.59	26.17	20.58
522CT22-GB110A-1		5.18	81.02	13.76	0.04
522CT22-GB110B-1		3.69	86.65	9.66	0.00
522CT22-GB110C-1		3.81	83.76	12.43	0.00
522CT22-GB111A-1		8.88	81.61	6.82	2.70
522CT22-GB111B-1		5.47	85.12	8.71	0.70
522CT22-GB111C-1		4.82	86.60	8.37	0.21
522CT22-GB112A-1		17.66	75.38	6.89	0.08
522CT22-GB112B-1		8.28	82.30	9.42	0.00
522CT22-GB112C-1		9.44	79.78	10.73	0.05

Appendix K: Grain Size Analysis

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB01-1
Water Depth (m)	--

Grain Size Data

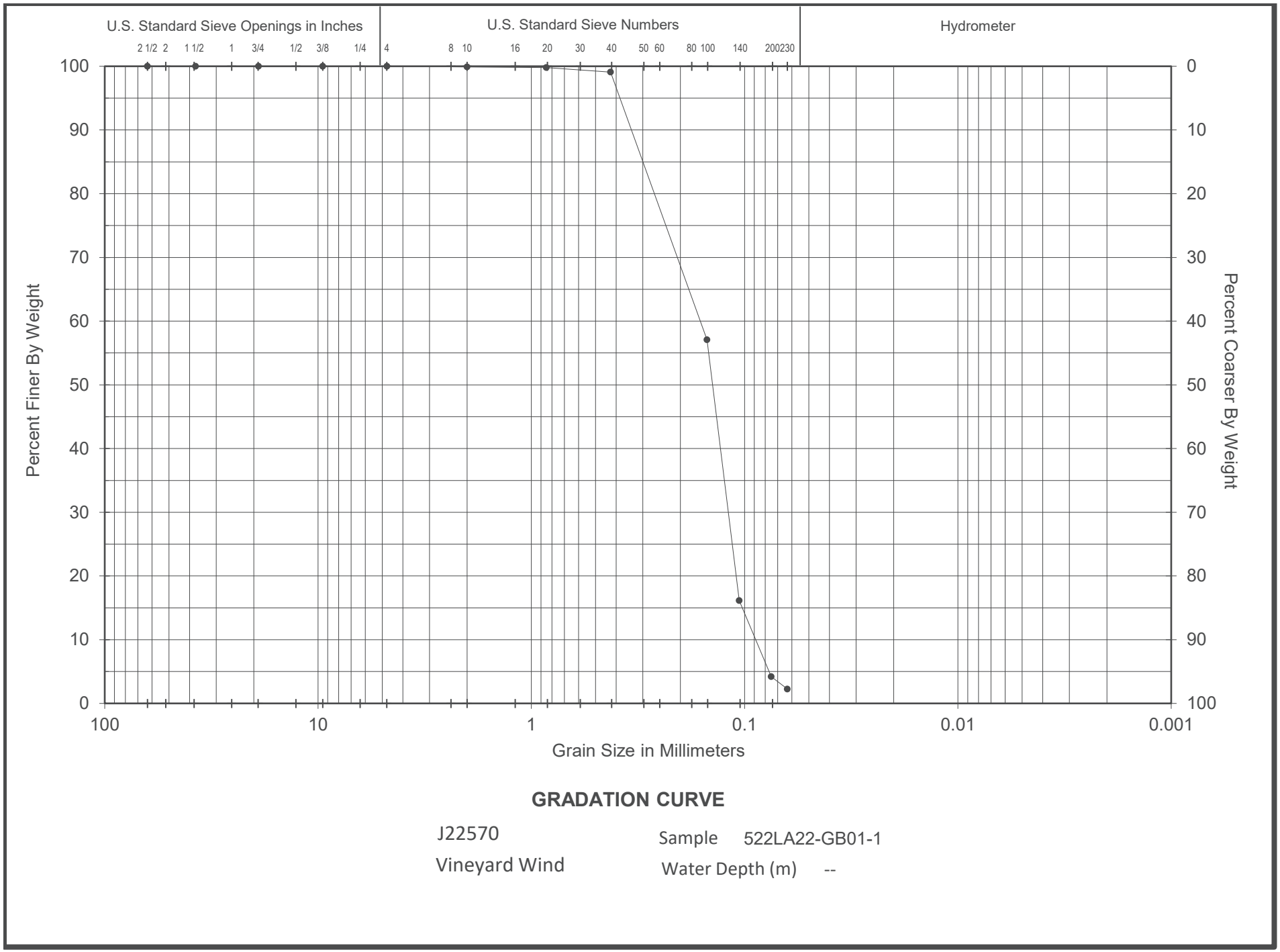
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.89	0.11	100.00
0.85	20	99.79	0.21	
0.425	40	99.09	0.91	
0.15	100	57.06	42.94	
0.106	140	16.12	83.88	
0.075	200	4.21	95.79	
0.063	230	2.26	97.74	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.89
% Passing #230	2.26
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.11
% Sand	0.0625 - 2.00 mm	97.63
% Silt and Clay	< 0.0625 mm	2.26
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.21
% Medium Sand	0.25 - 0.50 mm	0.70
% Fine Sand	0.0625 - 0.25 mm	96.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.12	0.106	4.21	0.075	0.089
D30	30	57.06	0.150	16.12	0.106	0.119
D50	50	57.06	0.150	16.12	0.106	0.141
D60	60	99.09	0.425	57.06	0.150	0.161

Uniformity Coefficient (Cu)	1.818
Coefficient of Curvature (Cc)	0.993



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB01-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB02A-2
Water Depth (m)	--

Grain Size Data

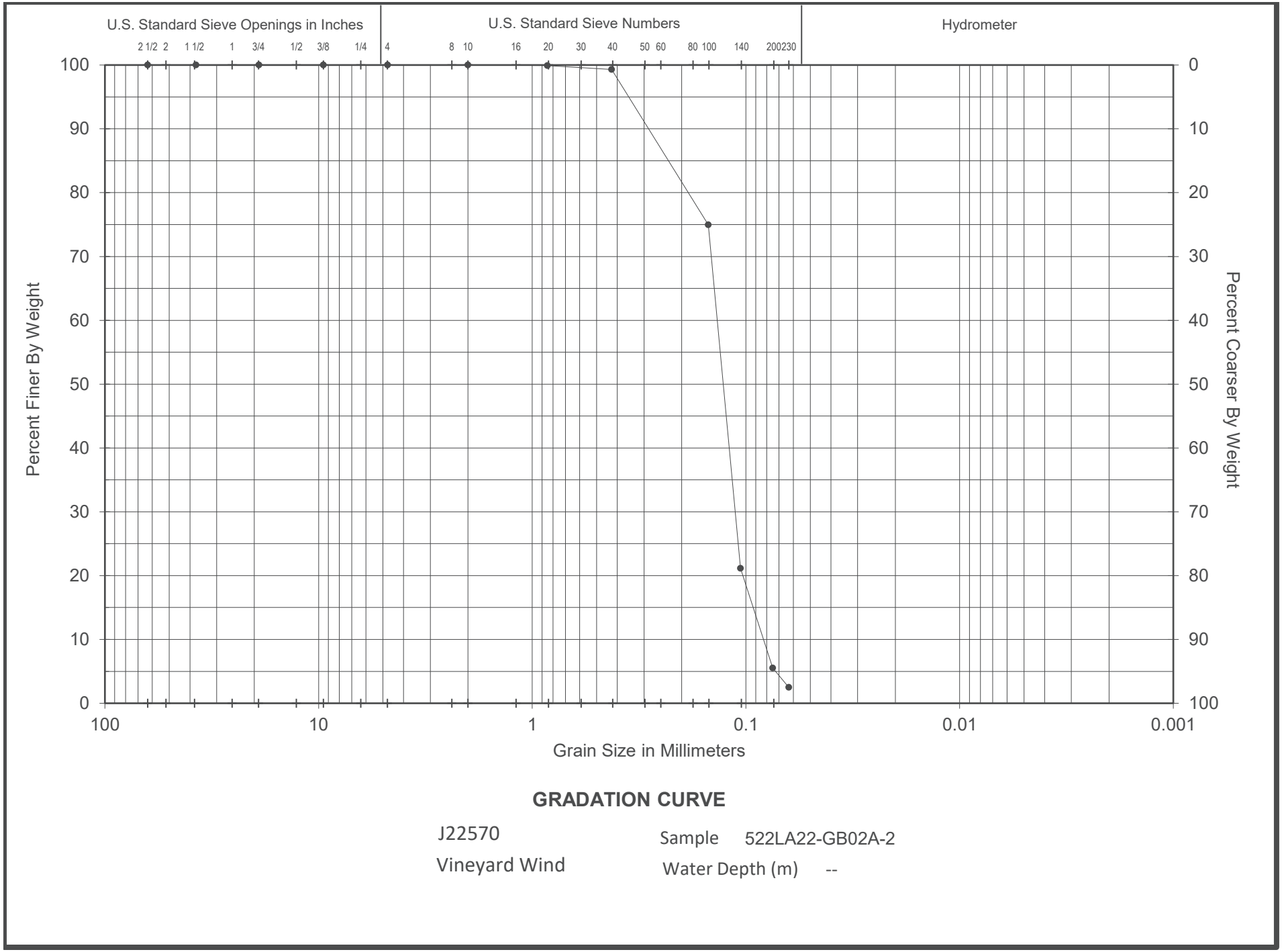
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	100.00
0.85	20	99.91	0.09	
0.425	40	99.31	0.69	
0.15	100	74.97	25.03	
0.106	140	21.15	78.85	
0.075	200	5.51	94.49	
0.063	230	2.49	97.51	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	2.49
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.51
% Silt and Clay	< 0.0625 mm	2.49
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.09
% Medium Sand	0.25 - 0.50 mm	0.61
% Fine Sand	0.0625 - 0.25 mm	96.82

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.15	0.106	5.51	0.075	0.083
D30	30	74.97	0.150	21.15	0.106	0.112
D50	50	74.97	0.150	21.15	0.106	0.128
D60	60	74.97	0.150	21.15	0.106	0.136

Uniformity Coefficient (Cu)	1.644
Coefficient of Curvature (Cc)	1.117



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB02A-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB02B-1
Water Depth (m)	--

Grain Size Data

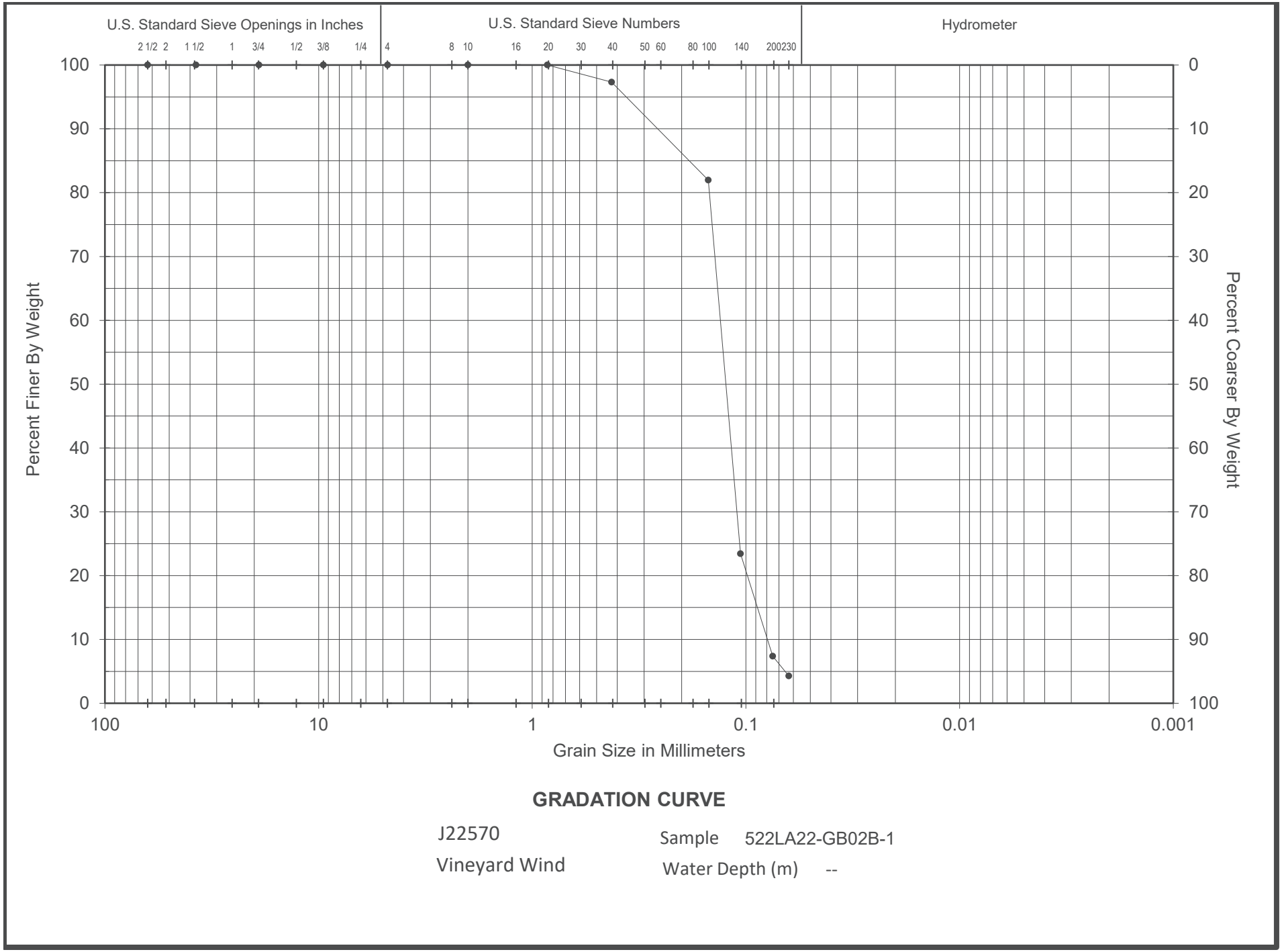
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	97.31	2.69	
0.15	100	81.97	18.03	
0.106	140	23.43	76.57	
0.075	200	7.37	92.63	
0.063	230	4.27	95.73	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	4.27
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	95.73
% Silt and Clay	< 0.0625 mm	4.27
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	2.69
% Fine Sand	0.0625 - 0.25 mm	93.03

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.43	0.106	7.37	0.075	0.079
D30	30	81.97	0.150	23.43	0.106	0.110
D50	50	81.97	0.150	23.43	0.106	0.124
D60	60	81.97	0.150	23.43	0.106	0.132

Uniformity Coefficient (Cu)	1.659
Coefficient of Curvature (Cc)	1.162



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB02B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB02C-1
Water Depth (m)	--

Grain Size Data

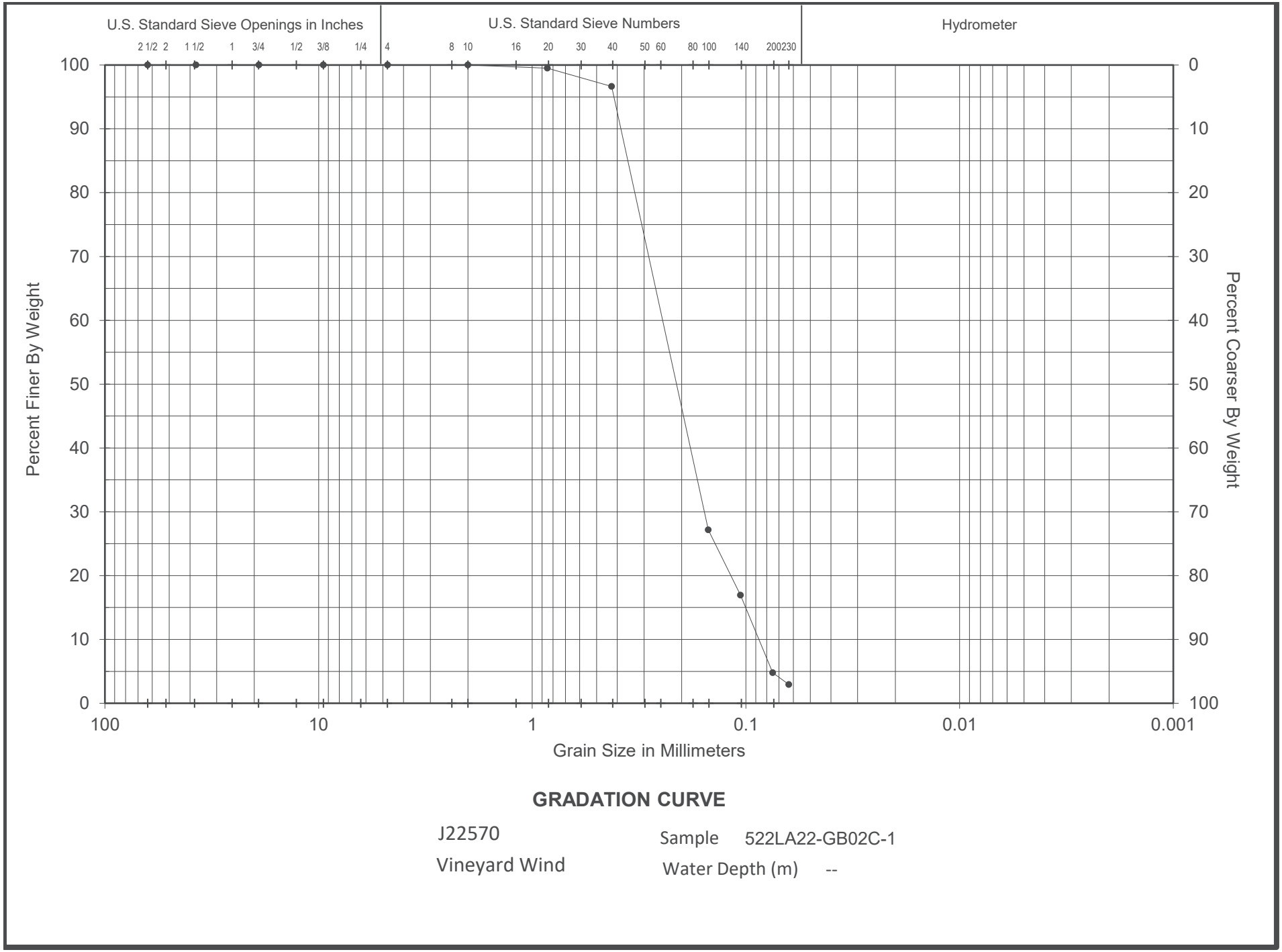
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.51	0.49	
0.425	40	96.65	3.35	
0.15	100	27.17	72.83	
0.106	140	16.93	83.07	
0.075	200	4.78	95.22	
0.063	230	2.94	97.06	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	2.94
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.06
% Silt and Clay	< 0.0625 mm	2.94
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.49
% Medium Sand	0.25 - 0.50 mm	2.86
% Fine Sand	0.0625 - 0.25 mm	93.70

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.93	0.106	4.78	0.075	0.087
D30	30	96.65	0.425	27.17	0.150	0.157
D50	50	96.65	0.425	27.17	0.150	0.211
D60	60	96.65	0.425	27.17	0.150	0.245

Uniformity Coefficient (Cu)	2.820
Coefficient of Curvature (Cc)	1.147



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB02C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB03-1
Water Depth (m)	--

Grain Size Data

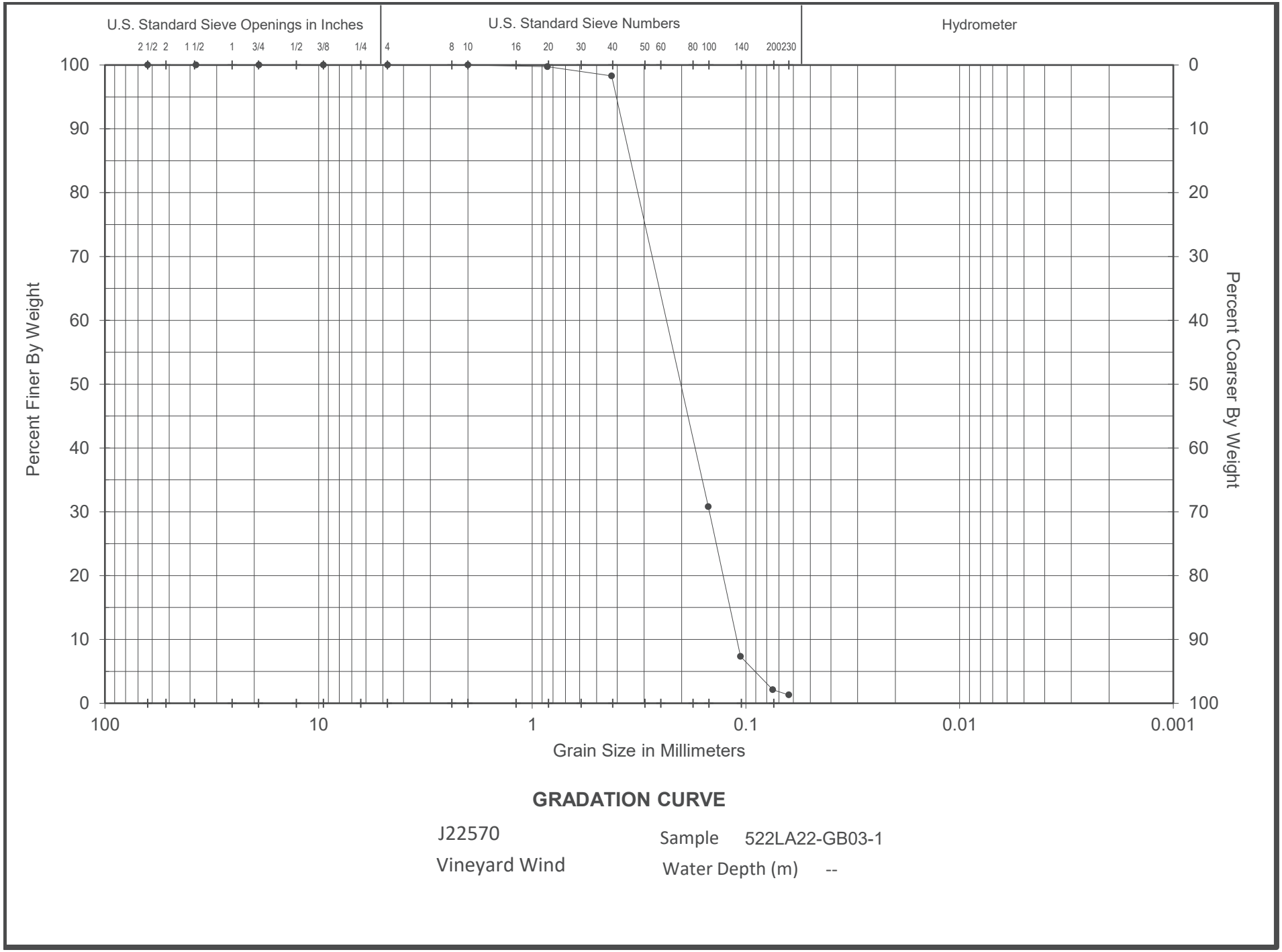
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.75	0.25	
0.425	40	98.29	1.71	
0.15	100	30.79	69.21	
0.106	140	7.33	92.67	
0.075	200	2.13	97.87	
0.063	230	1.30	98.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	1.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	98.70
% Silt and Clay	< 0.0625 mm	1.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.25
% Medium Sand	0.25 - 0.50 mm	1.46
% Fine Sand	0.0625 - 0.25 mm	96.99

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	30.79	0.150	7.33	0.106	0.110
D30	30	30.79	0.150	7.33	0.106	0.148
D50	50	98.29	0.425	30.79	0.150	0.202
D60	60	98.29	0.425	30.79	0.150	0.235

Uniformity Coefficient (Cu)	2.135
Coefficient of Curvature (Cc)	0.847



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB03-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB04-1
Water Depth (m)	--

Grain Size Data

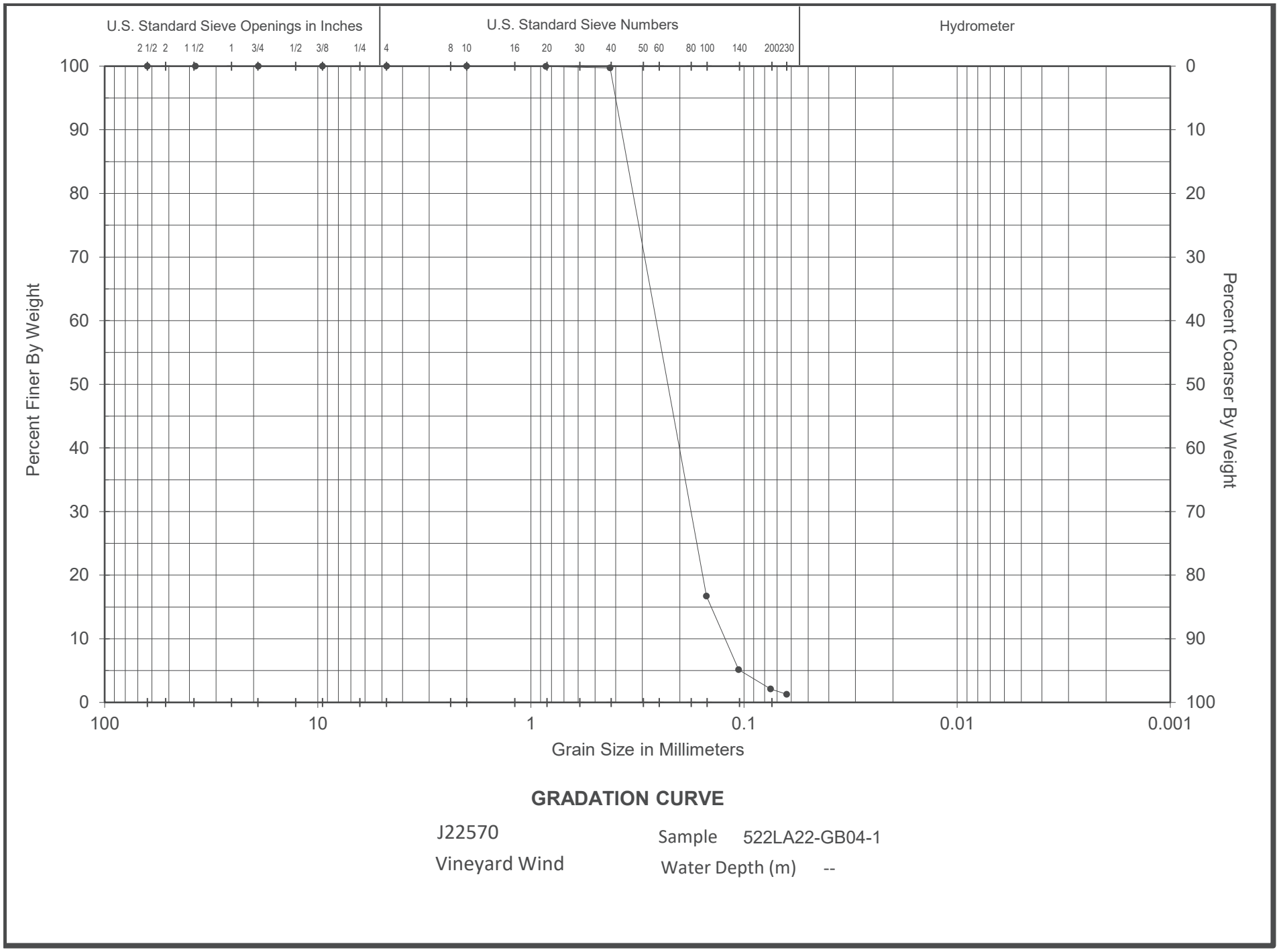
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.97	0.03	
0.425	40	99.72	0.28	
0.15	100	16.72	83.28	
0.106	140	5.14	94.86	
0.075	200	2.10	97.90	
0.063	230	1.28	98.72	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	1.28
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	98.72
% Silt and Clay	< 0.0625 mm	1.28
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.03
% Medium Sand	0.25 - 0.50 mm	0.25
% Fine Sand	0.0625 - 0.25 mm	98.44

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.72	0.150	5.14	0.106	0.123
D30	30	99.72	0.425	16.72	0.150	0.177
D50	50	99.72	0.425	16.72	0.150	0.228
D60	60	99.72	0.425	16.72	0.150	0.258

Uniformity Coefficient (Cu)	2.106
Coefficient of Curvature (Cc)	0.992



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB04-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB05-1
Water Depth (m)	--

Grain Size Data

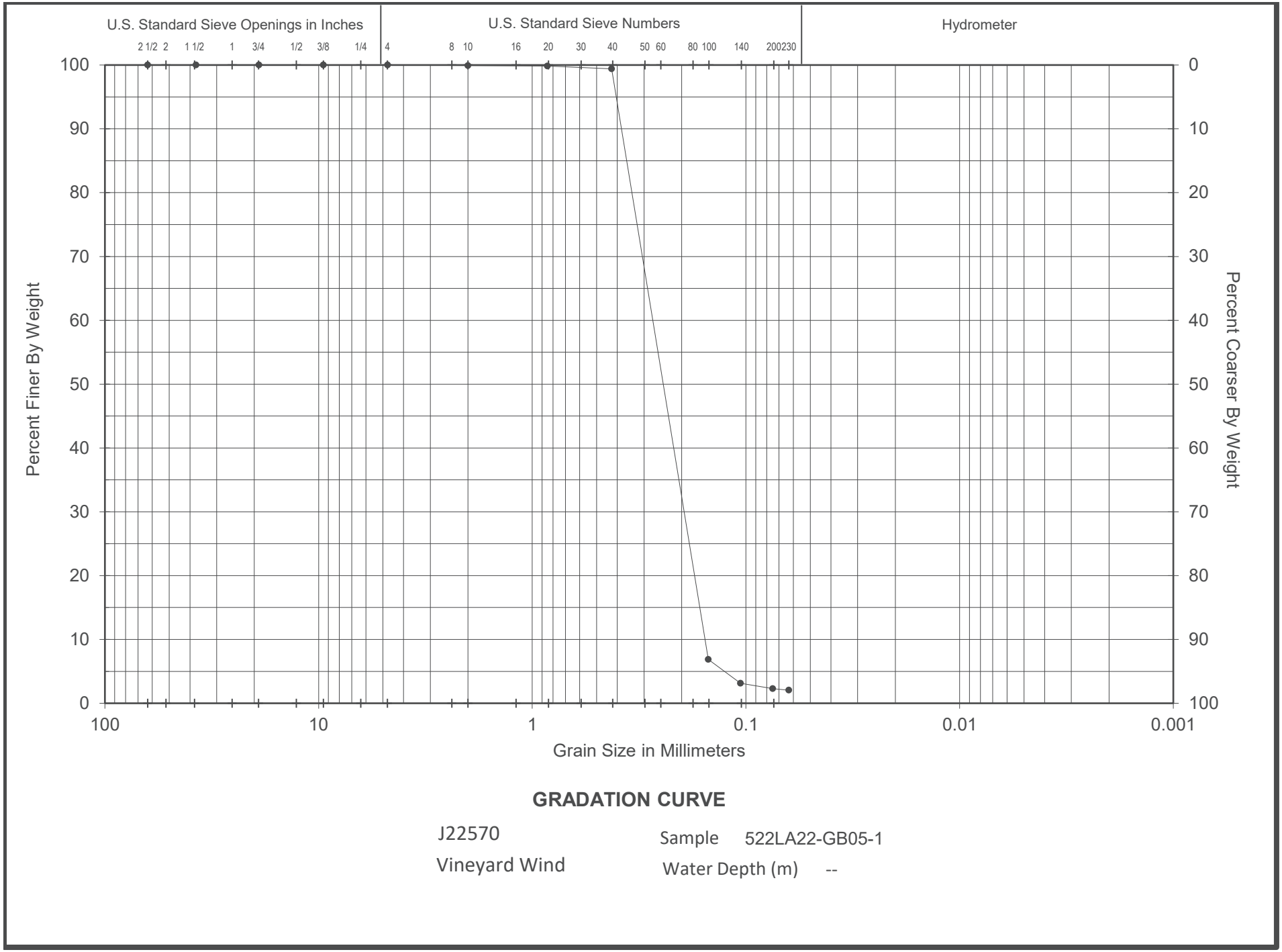
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.91	0.09	100.00
0.85	20	99.85	0.15	
0.425	40	99.42	0.58	
0.15	100	6.88	93.12	
0.106	140	3.15	96.85	
0.075	200	2.30	97.70	
0.063	230	2.04	97.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.91
% Passing #230	2.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.09
% Sand	0.0625 - 2.00 mm	97.86
% Silt and Clay	< 0.0625 mm	2.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.15
% Medium Sand	0.25 - 0.50 mm	0.43
% Fine Sand	0.0625 - 0.25 mm	97.38

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	99.42	0.425	6.88	0.150	0.155
D30	30	99.42	0.425	6.88	0.150	0.195
D50	50	99.42	0.425	6.88	0.150	0.244
D60	60	99.42	0.425	6.88	0.150	0.273

Uniformity Coefficient (Cu)	1.755
Coefficient of Curvature (Cc)	0.894



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB05-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB06-1
Water Depth (m)	--

Grain Size Data

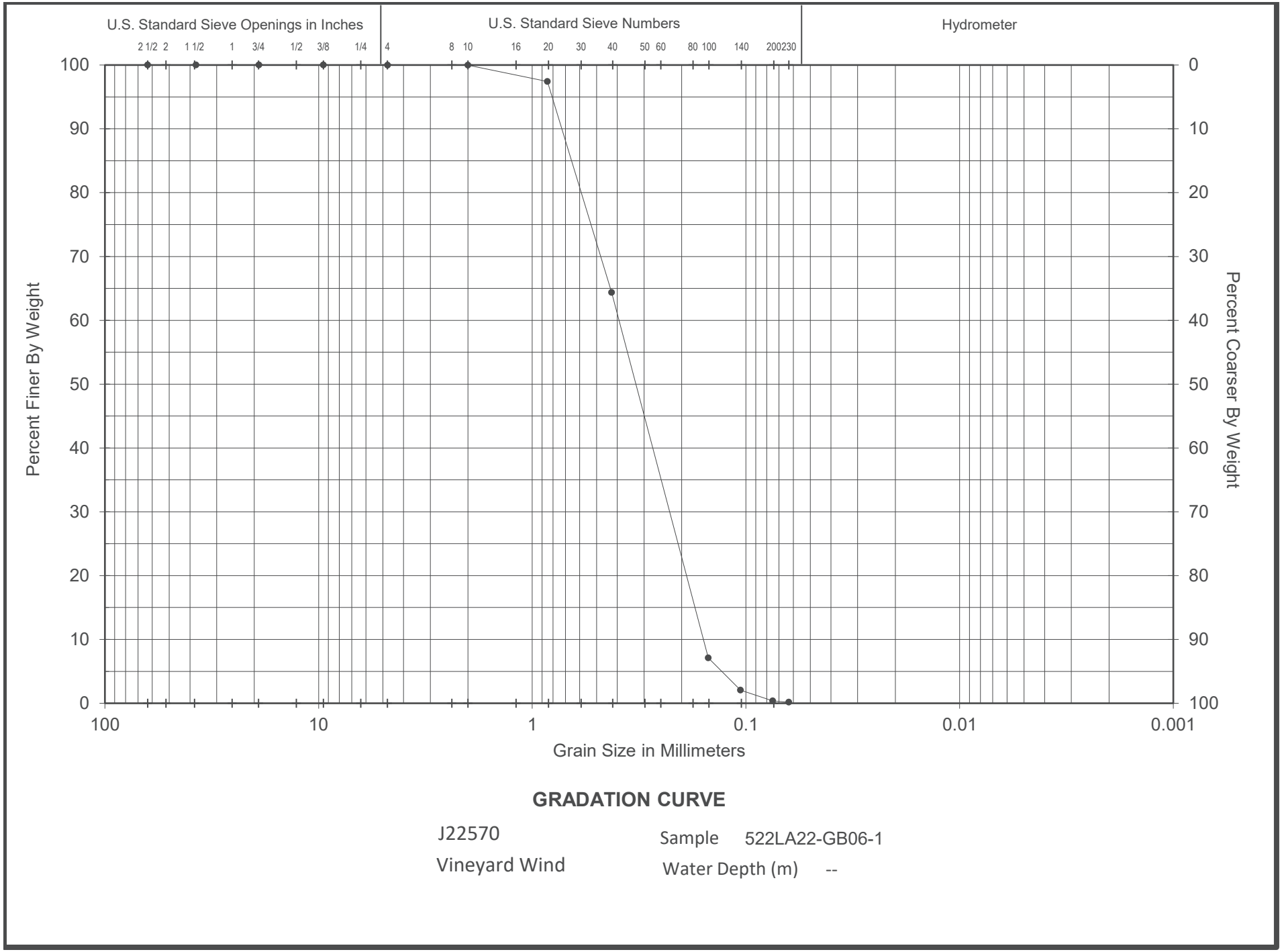
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.99	0.01	
2	10	99.98	0.02	100.00
0.85	20	97.43	2.57	
0.425	40	64.37	35.63	
0.15	100	7.12	92.88	
0.106	140	2.04	97.96	
0.075	200	0.39	99.61	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	99.80
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.57
% Medium Sand	0.25 - 0.50 mm	33.06
% Fine Sand	0.0625 - 0.25 mm	64.20

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	64.37	0.425	7.12	0.150	0.158
D30	30	64.37	0.425	7.12	0.150	0.227
D50	50	64.37	0.425	7.12	0.150	0.327
D60	60	64.37	0.425	7.12	0.150	0.393

Uniformity Coefficient (Cu)	2.483
Coefficient of Curvature (Cc)	0.834



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB06-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB07-1
Water Depth (m)	--

Grain Size Data

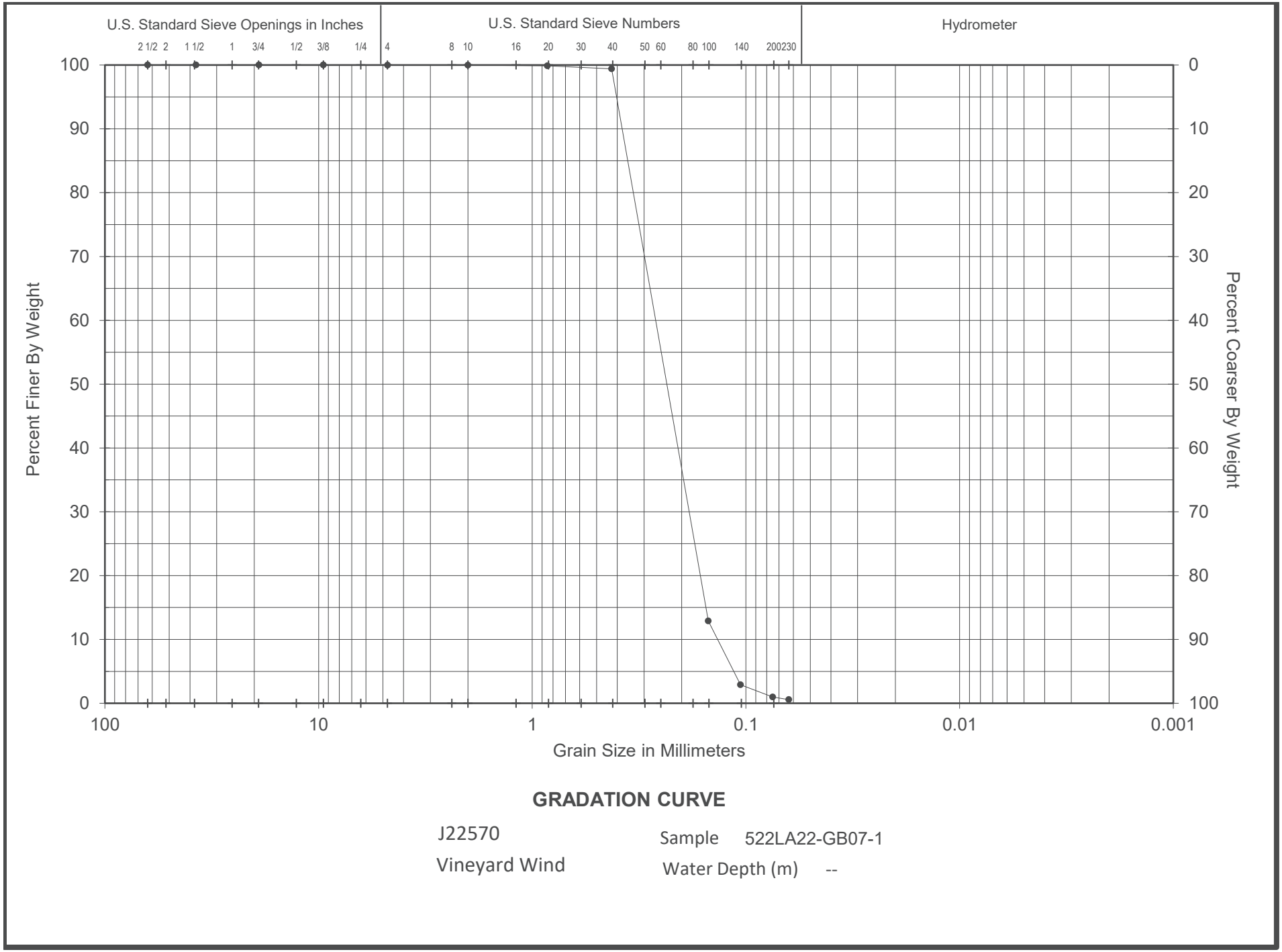
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.99	0.01	
2	10	99.96	0.04	100.00
0.85	20	99.87	0.13	
0.425	40	99.39	0.61	
0.15	100	12.91	87.09	
0.106	140	2.88	97.12	
0.075	200	1.00	99.00	
0.063	230	0.57	99.43	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.57
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.39
% Silt and Clay	< 0.0625 mm	0.57
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.12
% Medium Sand	0.25 - 0.50 mm	0.47
% Fine Sand	0.0625 - 0.25 mm	98.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.91	0.150	2.88	0.106	0.136
D30	30	99.39	0.425	12.91	0.150	0.184
D50	50	99.39	0.425	12.91	0.150	0.234
D60	60	99.39	0.425	12.91	0.150	0.264

Uniformity Coefficient (Cu)	1.950
Coefficient of Curvature (Cc)	0.947



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB07-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB08A-2
Water Depth (m)	--

Grain Size Data

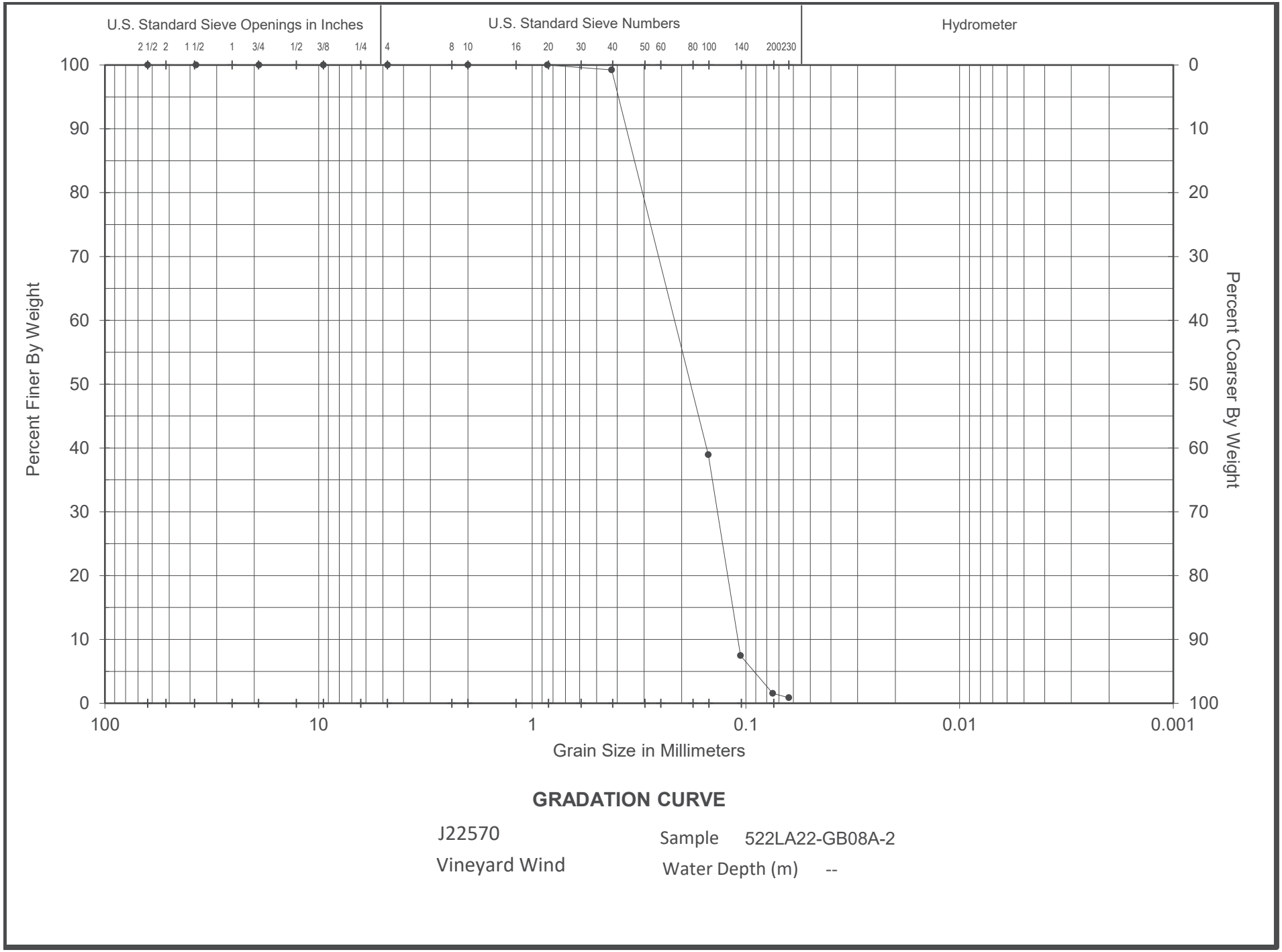
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	99.23	0.77	
0.15	100	38.94	61.06	
0.106	140	7.48	92.52	
0.075	200	1.55	98.45	
0.063	230	0.87	99.13	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.87
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.13
% Silt and Clay	< 0.0625 mm	0.87
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.77
% Fine Sand	0.0625 - 0.25 mm	98.36

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	38.94	0.150	7.48	0.106	0.109
D30	30	38.94	0.150	7.48	0.106	0.136
D50	50	99.23	0.425	38.94	0.150	0.182
D60	60	99.23	0.425	38.94	0.150	0.216

Uniformity Coefficient (Cu)	1.980
Coefficient of Curvature (Cc)	0.785



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB08A-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB08B-1
Water Depth (m)	--

Grain Size Data

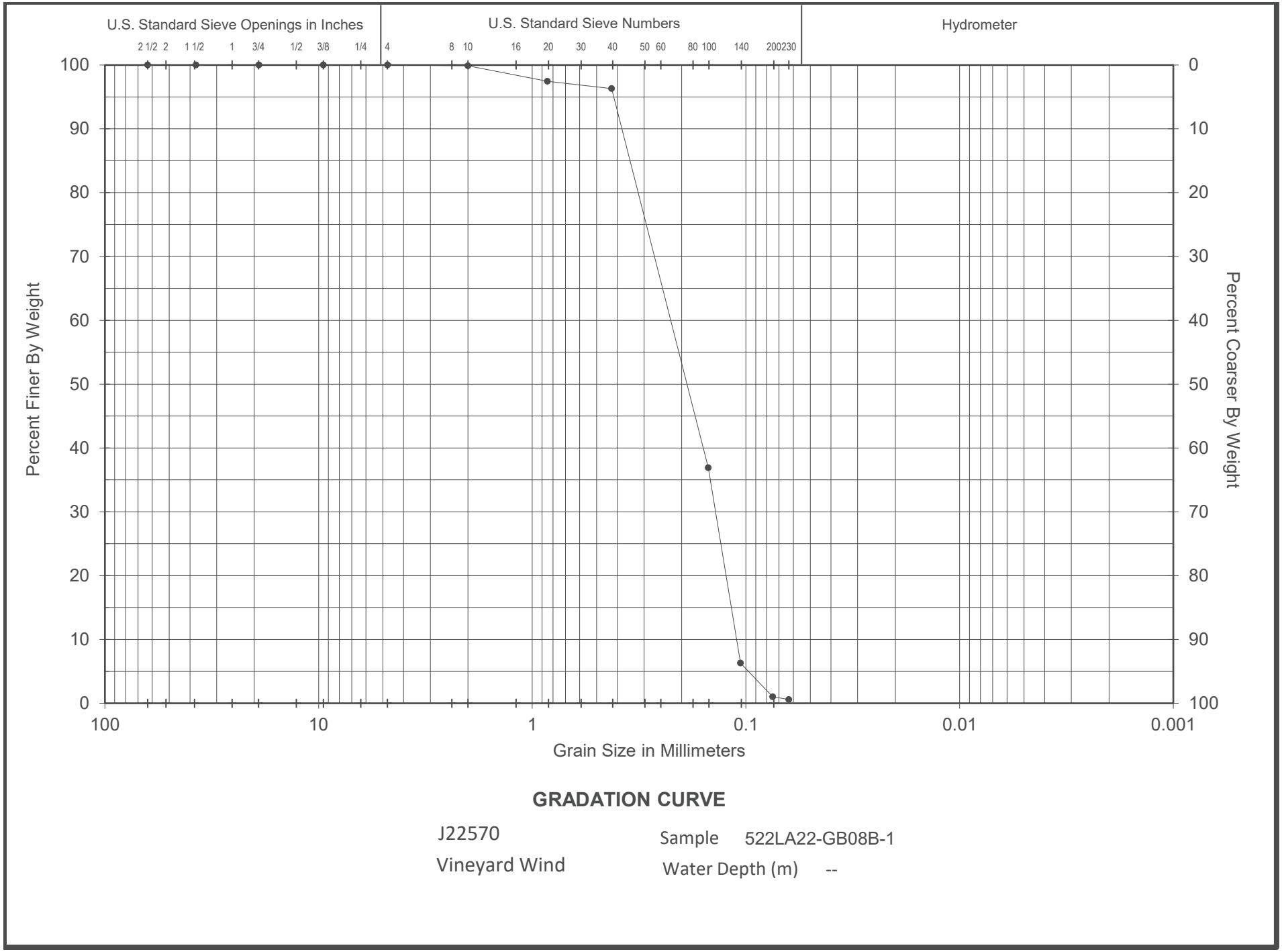
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.88	0.12	0.00
0.85	20	97.47	2.53	
0.425	40	96.32	3.68	
0.15	100	36.90	63.10	
0.106	140	6.31	93.69	
0.075	200	1.03	98.97	
0.063	230	0.59	99.41	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.88
% Passing #230	0.59
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.12
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.29
% Silt and Clay	< 0.0625 mm	0.59
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.53
% Medium Sand	0.25 - 0.50 mm	1.15
% Fine Sand	0.0625 - 0.25 mm	95.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	36.90	0.150	6.31	0.106	0.111
D30	30	36.90	0.150	6.31	0.106	0.139
D50	50	96.32	0.425	36.90	0.150	0.189
D60	60	96.32	0.425	36.90	0.150	0.225

Uniformity Coefficient (Cu)	2.034
Coefficient of Curvature (Cc)	0.774



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB08B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB08C-1
Water Depth (m)	--

Grain Size Data

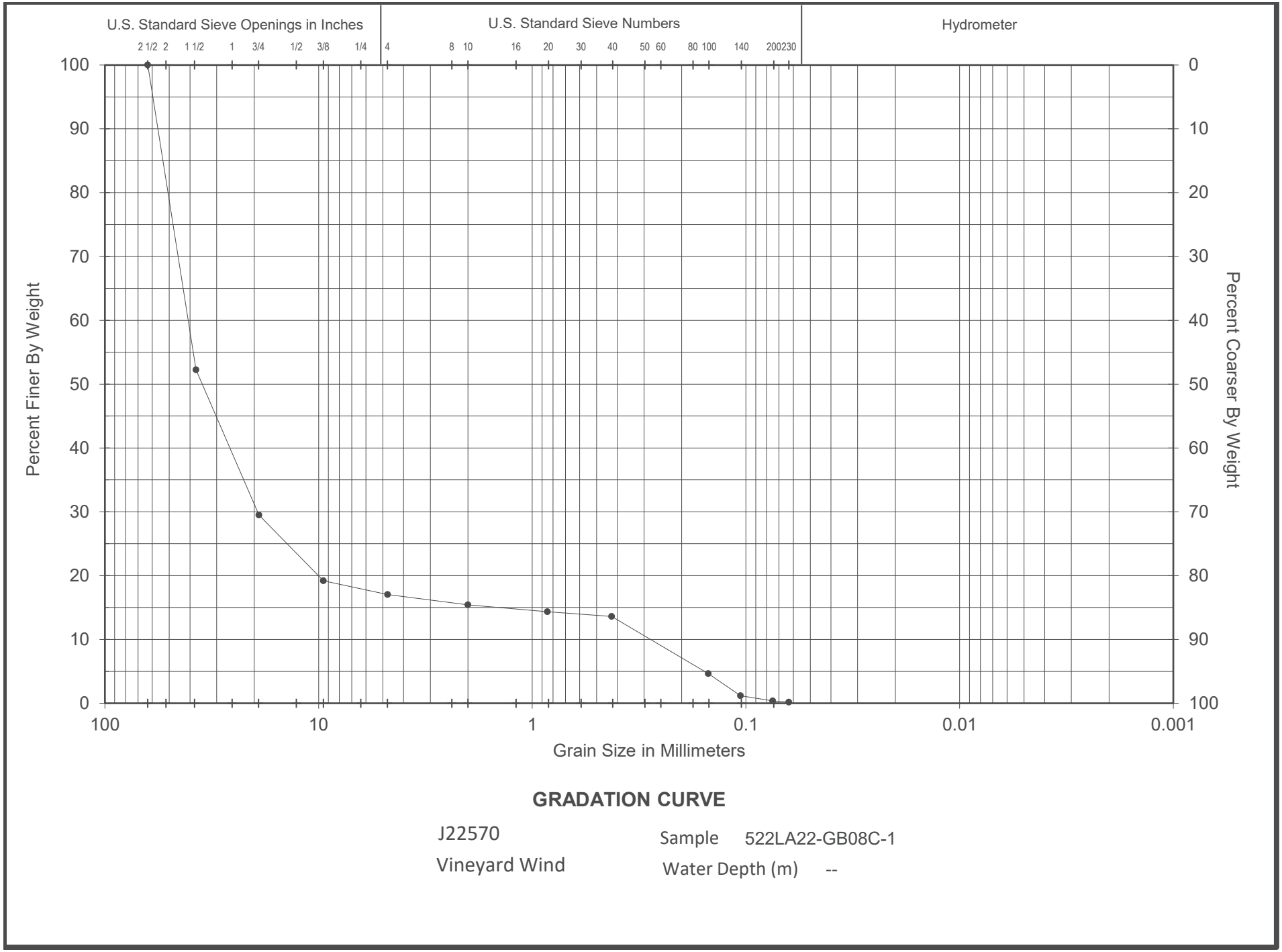
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	52.24	47.76	
19	3/4"	29.50	70.50	
9.5	3/8"	19.20	80.80	
4.75	4	17.05	82.95	
2	10	15.44	84.56	97.58
0.85	20	14.34	85.66	
0.425	40	13.60	86.40	
0.15	100	4.66	95.34	
0.106	140	1.19	98.81	
0.075	200	0.37	99.63	
0.063	230	0.18	99.82	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	15.44
% Passing #230	0.18
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.04
% Gravel-Sized Shell	> 2.00 mm	82.52
% Sand	0.0625 - 2.00 mm	15.25
% Silt and Clay	< 0.0625 mm	0.18
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.71
% Medium Sand	0.25 - 0.50 mm	0.73
% Fine Sand	0.0625 - 0.25 mm	13.42

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.60	0.425	4.66	0.150	0.279
D30	30	52.24	37.500	29.50	19.000	19.286
D50	50	52.24	37.500	29.50	19.000	35.073
D60	60	100.00	63.000	52.24	37.500	40.799

Uniformity Coefficient (Cu)	146.017
Coefficient of Curvature (Cc)	32.627



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB08C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB09-1
Water Depth (m)	--

Grain Size Data

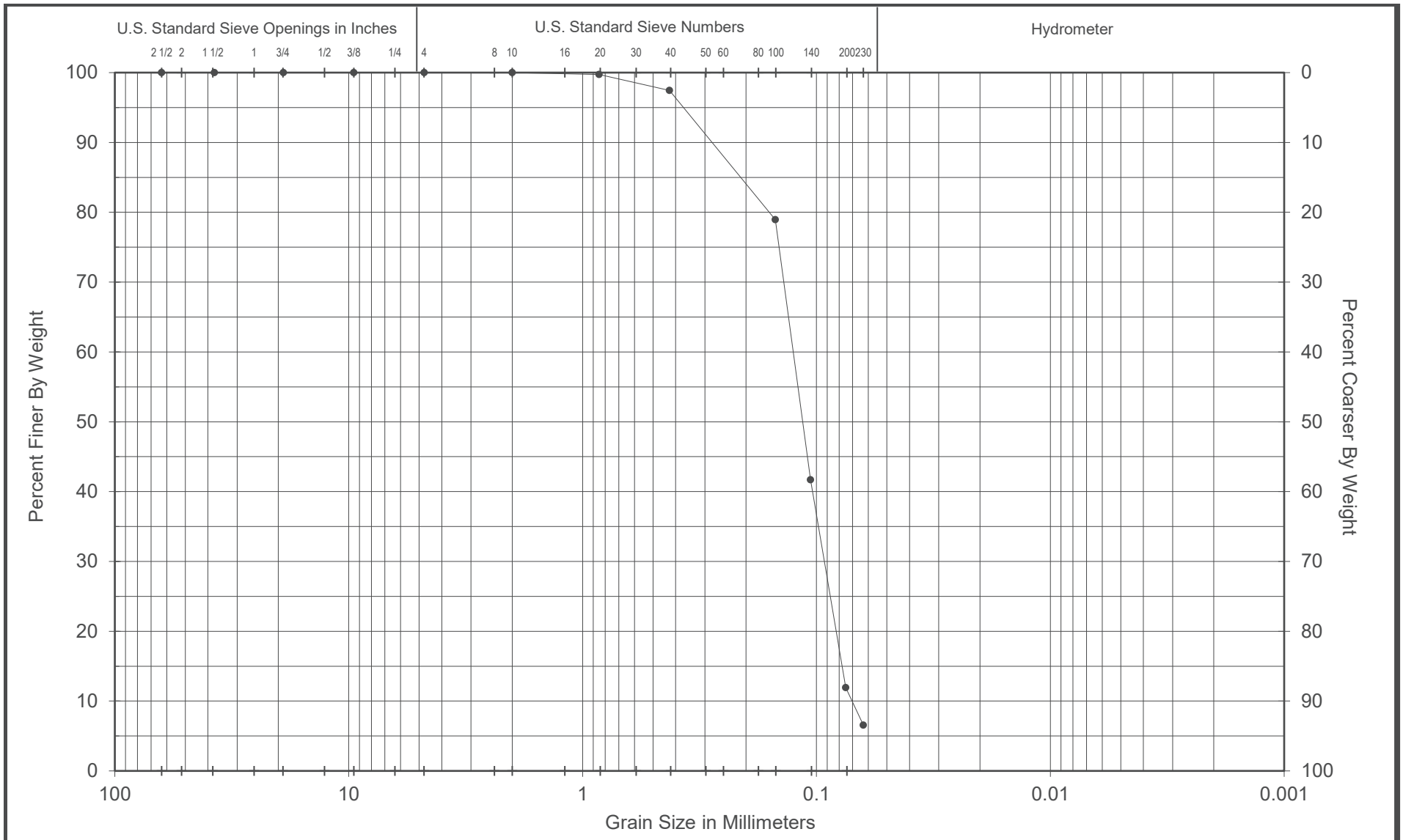
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.72	0.28	
0.425	40	97.46	2.54	
0.15	100	78.92	21.08	
0.106	140	41.67	58.33	
0.075	200	11.94	88.06	
0.063	230	6.57	93.43	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	6.57
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	93.43
% Silt and Clay	< 0.0625 mm	6.57
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.28
% Medium Sand	0.25 - 0.50 mm	2.27
% Fine Sand	0.0625 - 0.25 mm	90.89

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.94	0.075	6.57	0.063	0.070
D30	30	41.67	0.106	11.94	0.075	0.093
D50	50	78.92	0.150	41.67	0.106	0.115
D60	60	78.92	0.150	41.67	0.106	0.126

Uniformity Coefficient (Cu)	1.786
Coefficient of Curvature (Cc)	0.967



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB09-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB10-1
Water Depth (m)	--

Grain Size Data

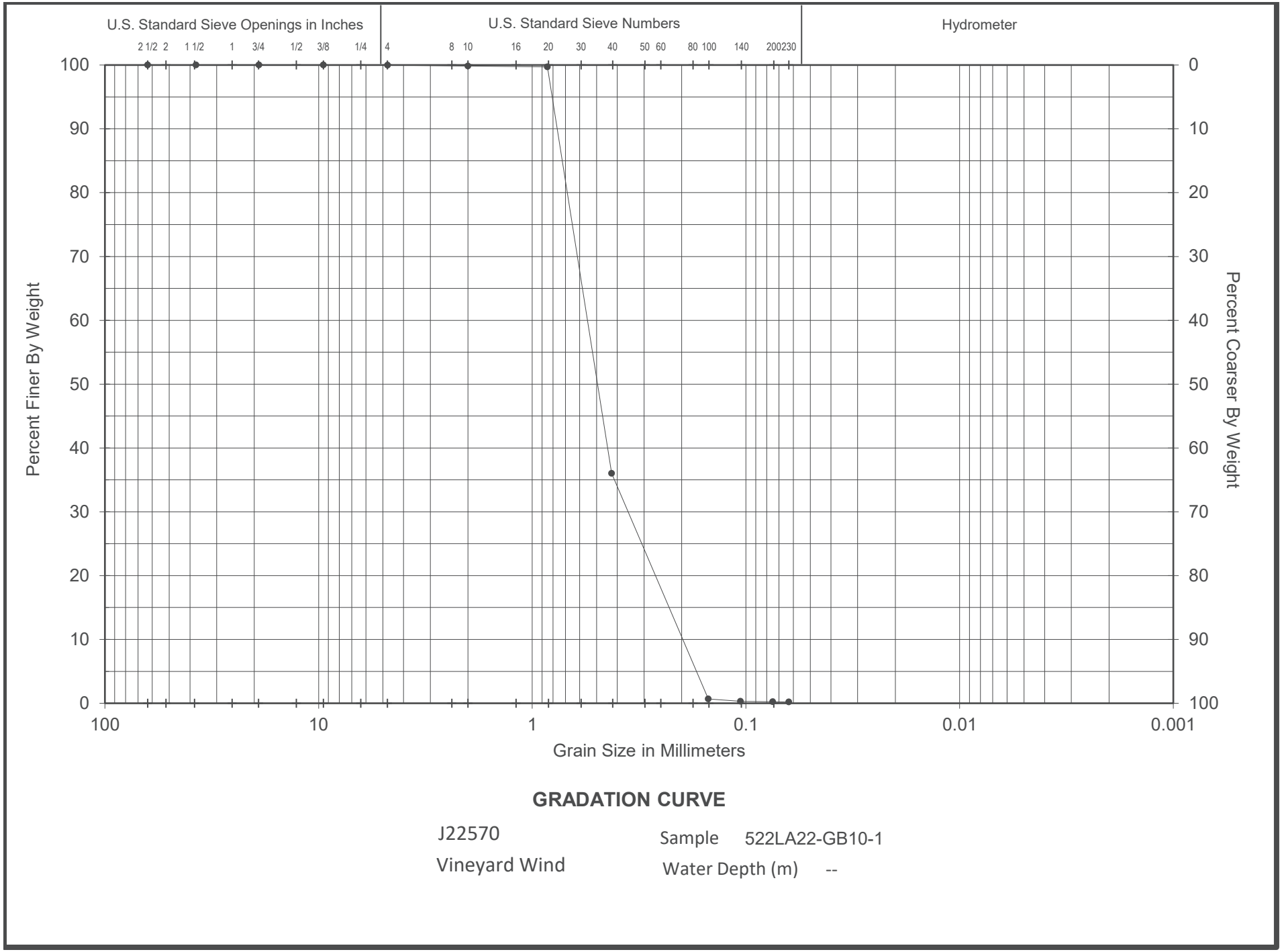
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.99	0.01	
2	10	99.84	0.16	100.00
0.85	20	99.69	0.31	
0.425	40	36.03	63.97	
0.15	100	0.67	99.33	
0.106	140	0.30	99.70	
0.075	200	0.22	99.78	
0.063	230	0.19	99.81	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.84
% Passing #230	0.19
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.16
% Sand	0.0625 - 2.00 mm	99.65
% Silt and Clay	< 0.0625 mm	0.19
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.29
% Medium Sand	0.25 - 0.50 mm	63.67
% Fine Sand	0.0625 - 0.25 mm	35.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	36.03	0.425	0.67	0.150	0.197
D30	30	36.03	0.425	0.67	0.150	0.356
D50	50	99.69	0.850	36.03	0.425	0.495
D60	60	99.69	0.850	36.03	0.425	0.552

Uniformity Coefficient (Cu)	2.794
Coefficient of Curvature (Cc)	1.163



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB10-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB11-1
Water Depth (m)	--

Grain Size Data

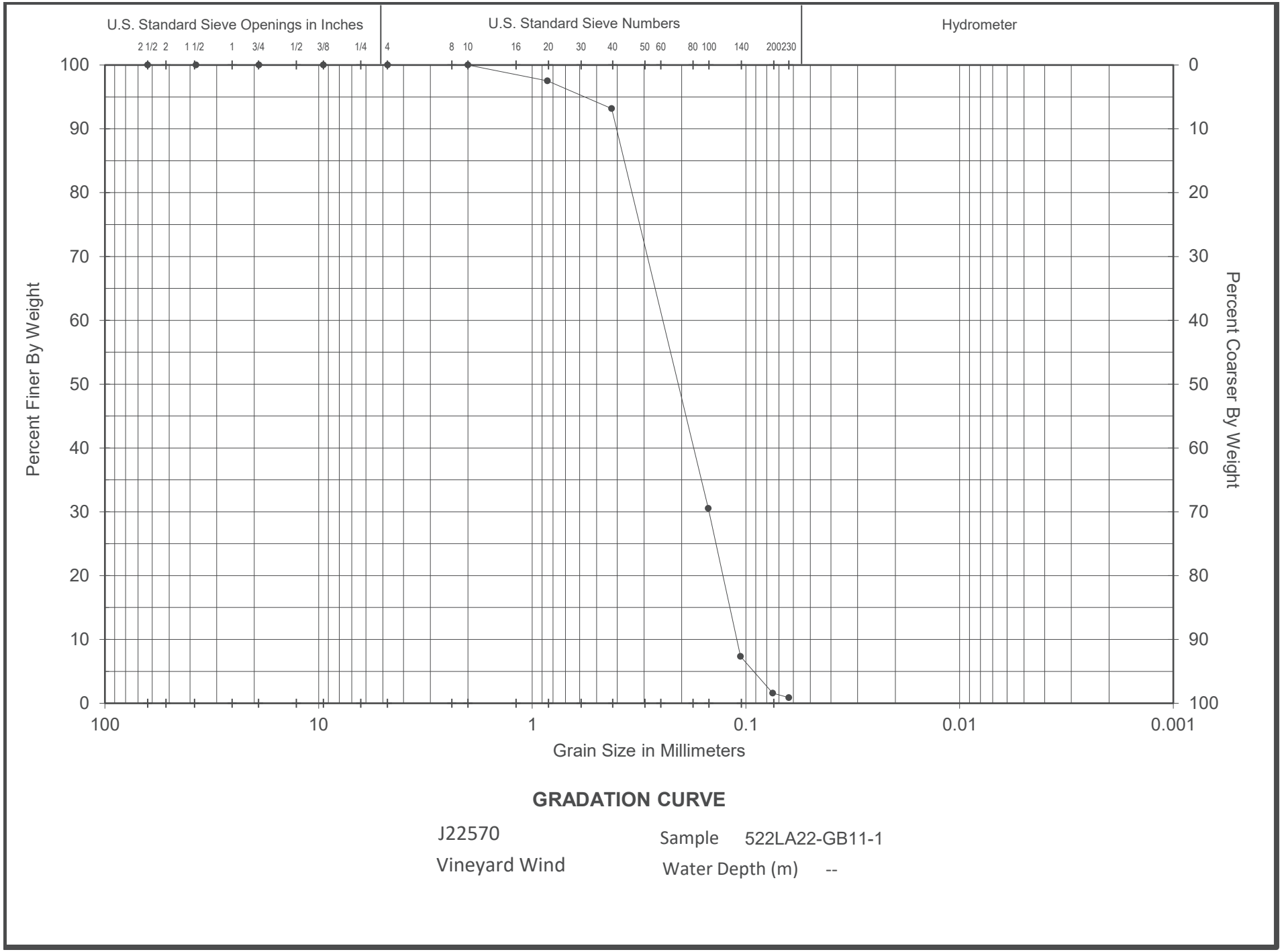
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	97.51	2.49	
0.425	40	93.17	6.83	
0.15	100	30.52	69.48	
0.106	140	7.34	92.66	
0.075	200	1.60	98.40	
0.063	230	0.88	99.12	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.88
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.12
% Silt and Clay	< 0.0625 mm	0.88
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.49
% Medium Sand	0.25 - 0.50 mm	4.34
% Fine Sand	0.0625 - 0.25 mm	92.29

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	30.52	0.150	7.34	0.106	0.110
D30	30	30.52	0.150	7.34	0.106	0.149
D50	50	93.17	0.425	30.52	0.150	0.207
D60	60	93.17	0.425	30.52	0.150	0.245

Uniformity Coefficient (Cu)	2.220
Coefficient of Curvature (Cc)	0.820



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB11-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB12-1
Water Depth (m)	--

Grain Size Data

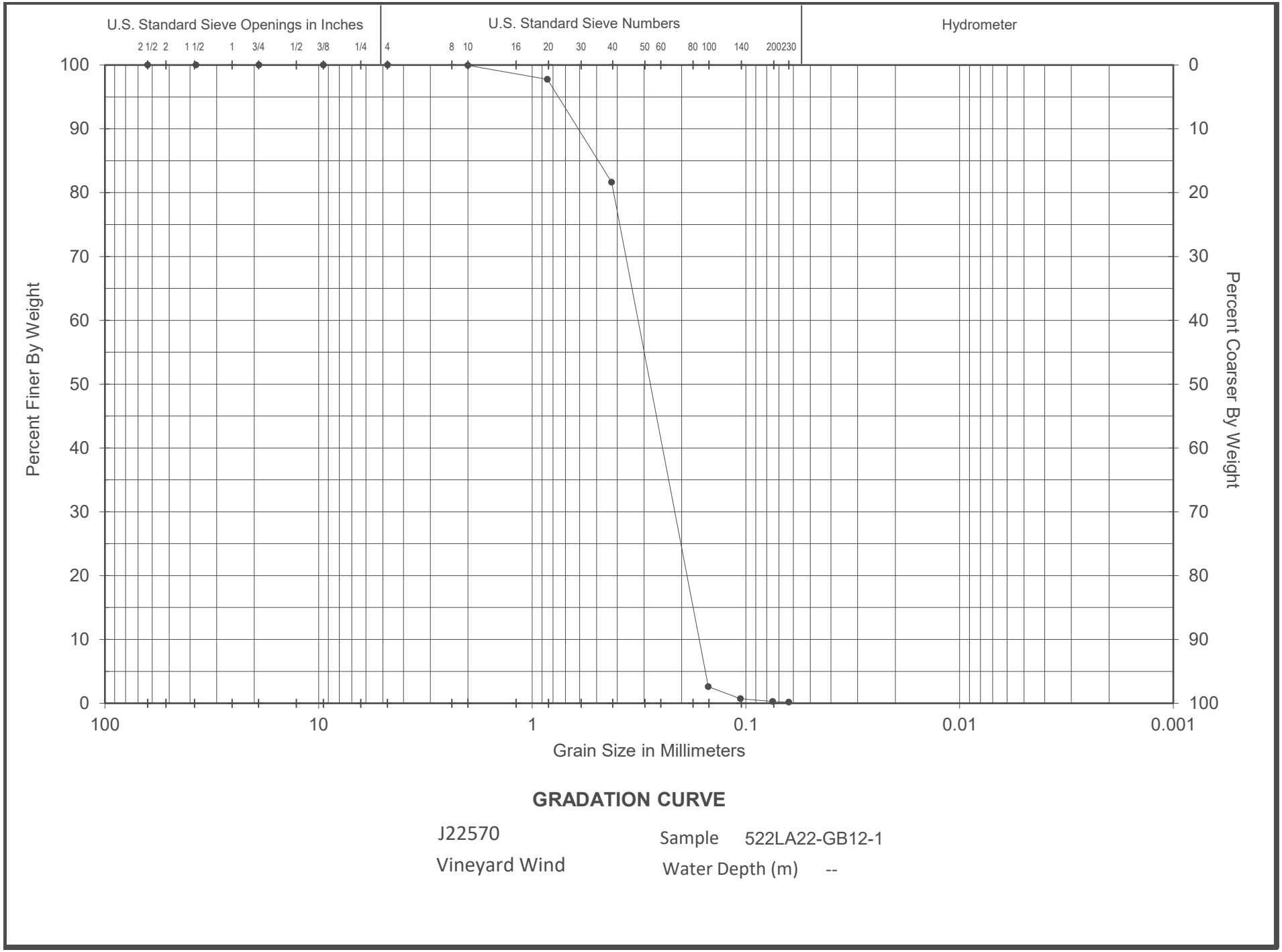
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	100.00
0.85	20	97.75	2.25	
0.425	40	81.64	18.36	
0.15	100	2.58	97.42	
0.106	140	0.71	99.29	
0.075	200	0.27	99.73	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.79
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.25
% Medium Sand	0.25 - 0.50 mm	16.11
% Fine Sand	0.0625 - 0.25 mm	81.47

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	81.64	0.425	2.58	0.150	0.165
D30	30	81.64	0.425	2.58	0.150	0.215
D50	50	81.64	0.425	2.58	0.150	0.280
D60	60	81.64	0.425	2.58	0.150	0.320

Uniformity Coefficient (Cu)	1.932
Coefficient of Curvature (Cc)	0.877



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB12-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB13A-1
Water Depth (m)	--

Grain Size Data

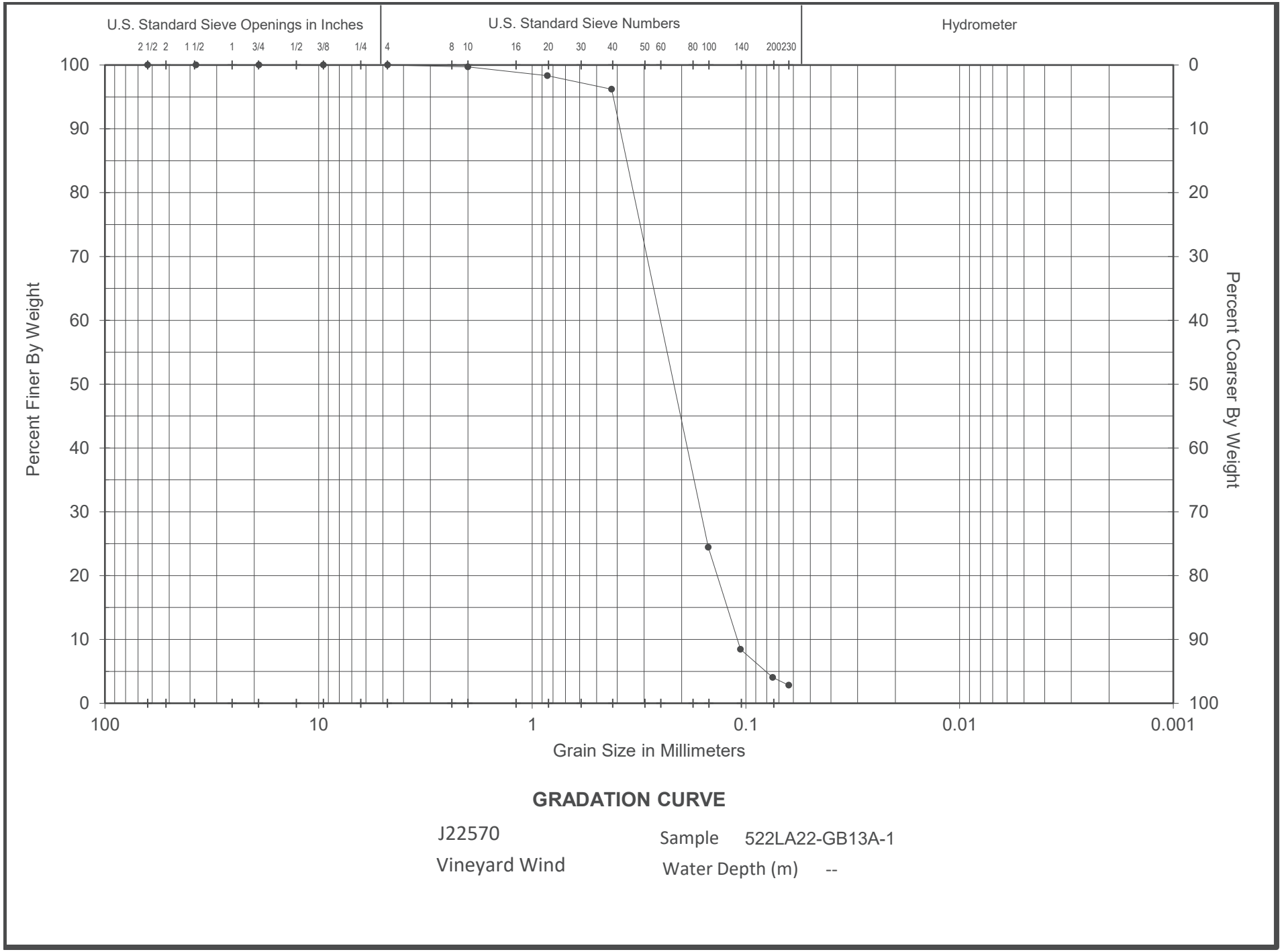
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.72	0.28	100.00
0.85	20	98.34	1.66	
0.425	40	96.22	3.78	
0.15	100	24.45	75.55	
0.106	140	8.45	91.55	
0.075	200	4.04	95.96	
0.063	230	2.82	97.18	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.72
% Passing #230	2.82
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.28
% Sand	0.0625 - 2.00 mm	96.90
% Silt and Clay	< 0.0625 mm	2.82
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.66
% Medium Sand	0.25 - 0.50 mm	2.12
% Fine Sand	0.0625 - 0.25 mm	93.39

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.45	0.150	8.45	0.106	0.110
D30	30	96.22	0.425	24.45	0.150	0.163
D50	50	96.22	0.425	24.45	0.150	0.217
D60	60	96.22	0.425	24.45	0.150	0.251

Uniformity Coefficient (Cu)	2.292
Coefficient of Curvature (Cc)	0.960



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB13A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB13B-1
Water Depth (m)	--

Grain Size Data

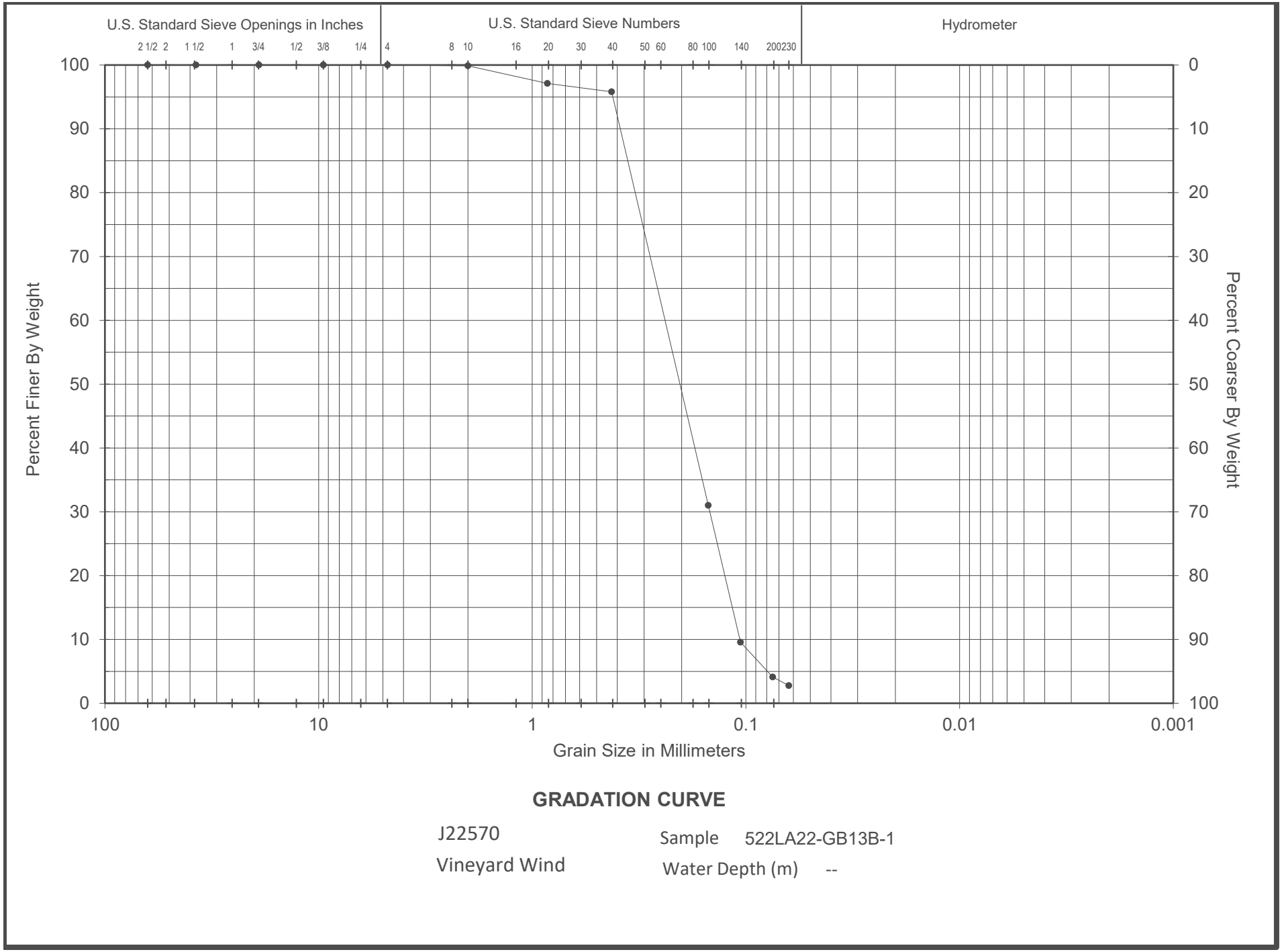
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.86	0.14	0.00
0.85	20	97.12	2.88	
0.425	40	95.79	4.21	
0.15	100	31.01	68.99	
0.106	140	9.56	90.44	
0.075	200	4.11	95.89	
0.063	230	2.78	97.22	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.86
% Passing #230	2.78
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.14
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.09
% Silt and Clay	< 0.0625 mm	2.78
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.88
% Medium Sand	0.25 - 0.50 mm	1.32
% Fine Sand	0.0625 - 0.25 mm	93.02

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.01	0.150	9.56	0.106	0.107
D30	30	31.01	0.150	9.56	0.106	0.148
D50	50	95.79	0.425	31.01	0.150	0.204
D60	60	95.79	0.425	31.01	0.150	0.239

Uniformity Coefficient (Cu)	2.239
Coefficient of Curvature (Cc)	0.853



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB13B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB13C-1
Water Depth (m)	--

Grain Size Data

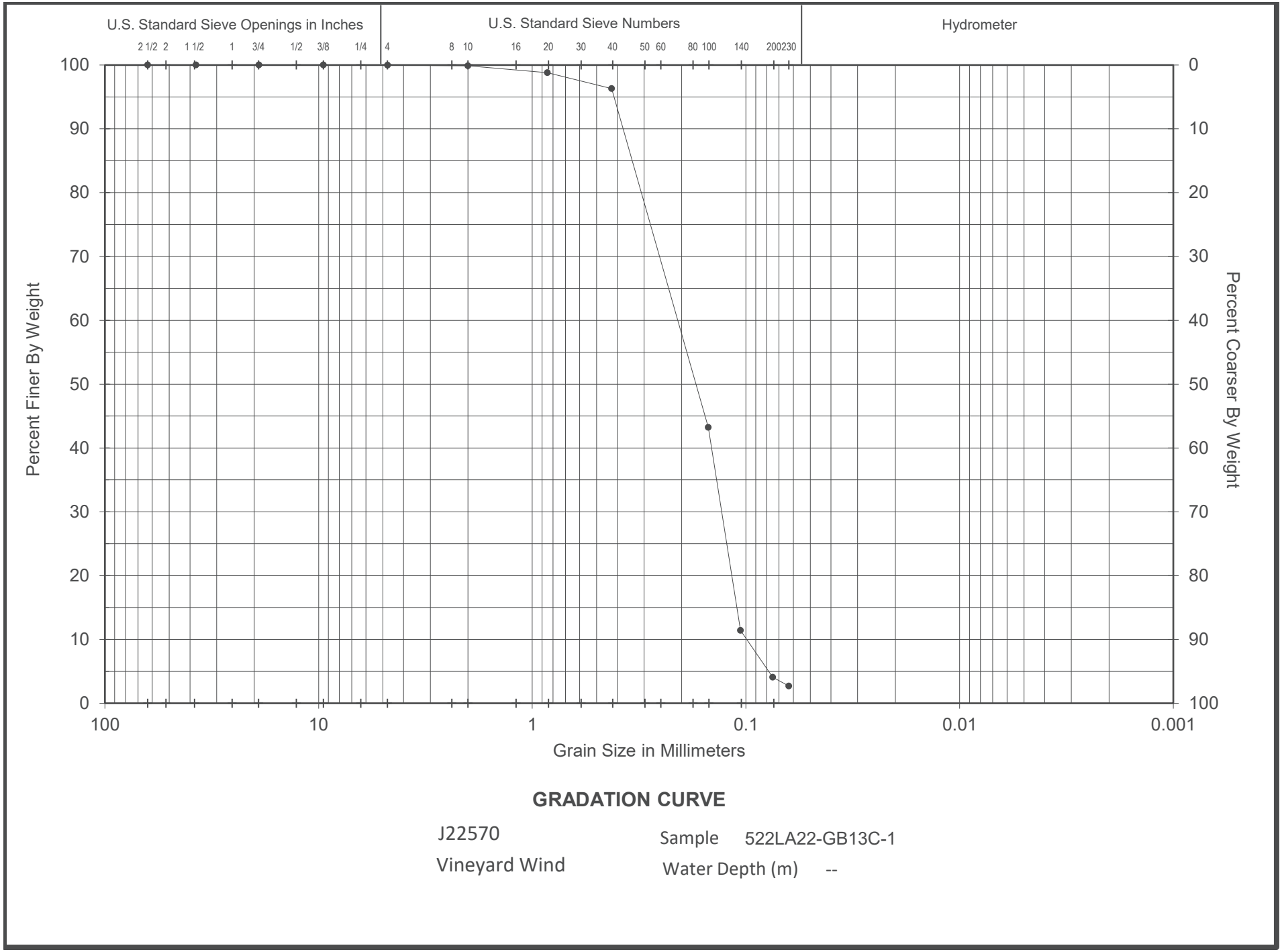
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.89	0.11	51.85
0.85	20	98.80	1.20	
0.425	40	96.32	3.68	
0.15	100	43.23	56.77	
0.106	140	11.42	88.58	
0.075	200	4.08	95.92	
0.063	230	2.71	97.29	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.89
% Passing #230	2.71
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.05
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	97.18
% Silt and Clay	< 0.0625 mm	2.71
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.17
% Medium Sand	0.25 - 0.50 mm	2.48
% Fine Sand	0.0625 - 0.25 mm	93.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.42	0.106	4.08	0.075	0.099
D30	30	43.23	0.150	11.42	0.106	0.130
D50	50	96.32	0.425	43.23	0.150	0.171
D60	60	96.32	0.425	43.23	0.150	0.208

Uniformity Coefficient (Cu)	2.103
Coefficient of Curvature (Cc)	0.816



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB13C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB14A-1
Water Depth (m)	--

Grain Size Data

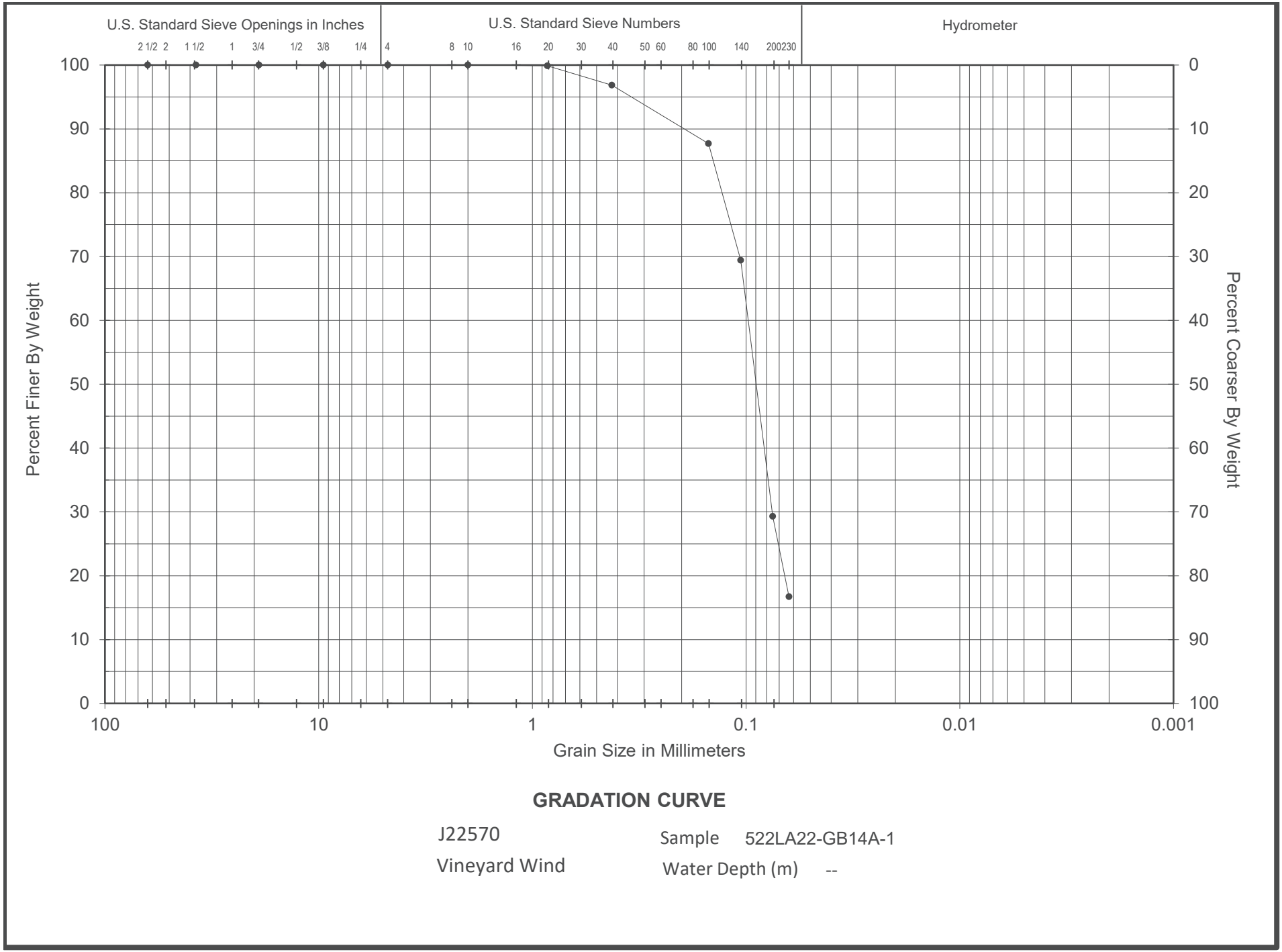
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.86	0.14	
0.425	40	96.84	3.16	
0.15	100	87.70	12.30	
0.106	140	69.42	30.58	
0.075	200	29.30	70.70	
0.063	230	16.73	83.27	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	16.73
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	83.27
% Silt and Clay	< 0.0625 mm	16.73
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.14
% Medium Sand	0.25 - 0.50 mm	3.03
% Fine Sand	0.0625 - 0.25 mm	80.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.73	0.063	#N/A	#N/A	#N/A
D30	30	69.42	0.106	29.30	0.075	0.075
D50	50	69.42	0.106	29.30	0.075	0.090
D60	60	69.42	0.106	29.30	0.075	0.098

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB14A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB14B-1
Water Depth (m)	--

Grain Size Data

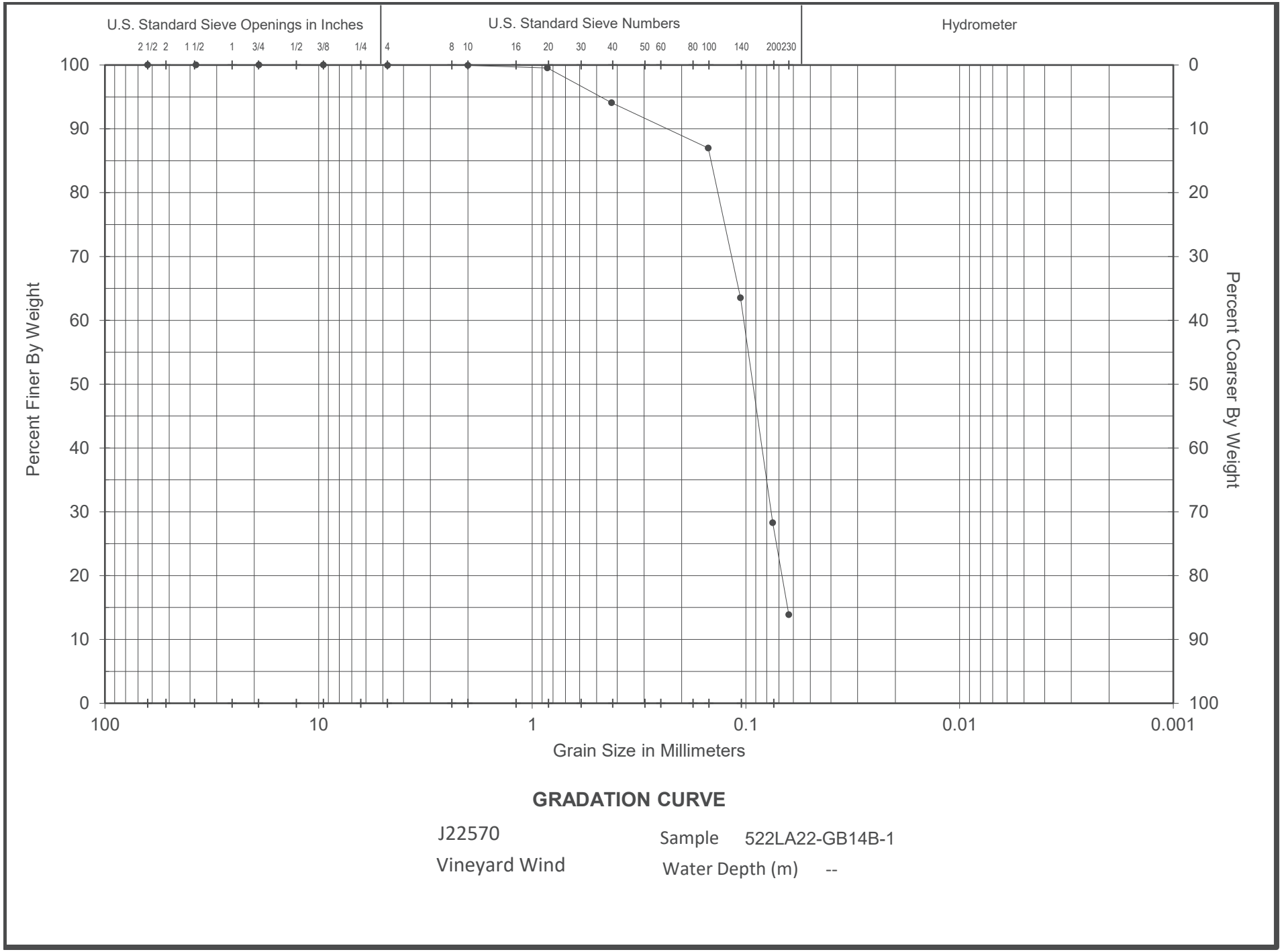
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.95	0.05	
2	10	99.94	0.06	89.47
0.85	20	99.53	0.47	
0.425	40	94.09	5.91	
0.15	100	86.98	13.02	
0.106	140	63.52	36.48	
0.075	200	28.29	71.71	
0.063	230	13.86	86.14	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	13.86
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.05
% Sand	0.0625 - 2.00 mm	86.08
% Silt and Clay	< 0.0625 mm	13.86
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.42
% Medium Sand	0.25 - 0.50 mm	5.45
% Fine Sand	0.0625 - 0.25 mm	80.22

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.86	0.063	#N/A	#N/A	#N/A
D30	30	63.52	0.106	28.29	0.075	0.076
D50	50	63.52	0.106	28.29	0.075	0.093
D60	60	63.52	0.106	28.29	0.075	0.102

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB14B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB14C-1
Water Depth (m)	--

Grain Size Data

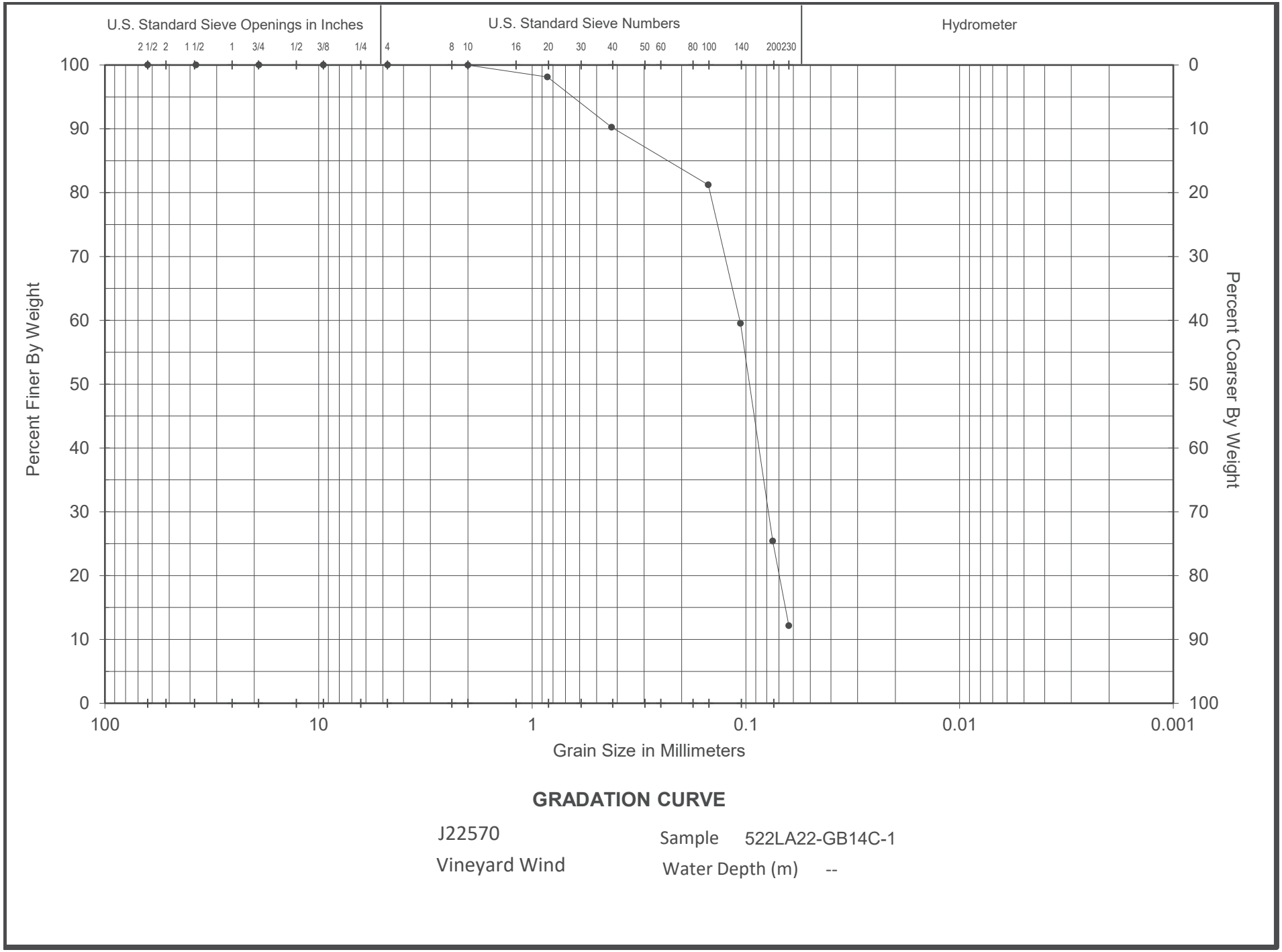
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	0.00
0.85	20	98.12	1.88	
0.425	40	90.26	9.74	
0.15	100	81.24	18.76	
0.106	140	59.52	40.48	
0.075	200	25.43	74.57	
0.063	230	12.16	87.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	12.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	87.83
% Silt and Clay	< 0.0625 mm	12.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.88
% Medium Sand	0.25 - 0.50 mm	7.86
% Fine Sand	0.0625 - 0.25 mm	78.10

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.16	0.063	#N/A	#N/A	#N/A
D30	30	59.52	0.106	25.43	0.075	0.079
D50	50	59.52	0.106	25.43	0.075	0.096
D60	60	81.24	0.150	59.52	0.106	0.107

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB14C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB15-1
Water Depth (m)	--

Grain Size Data

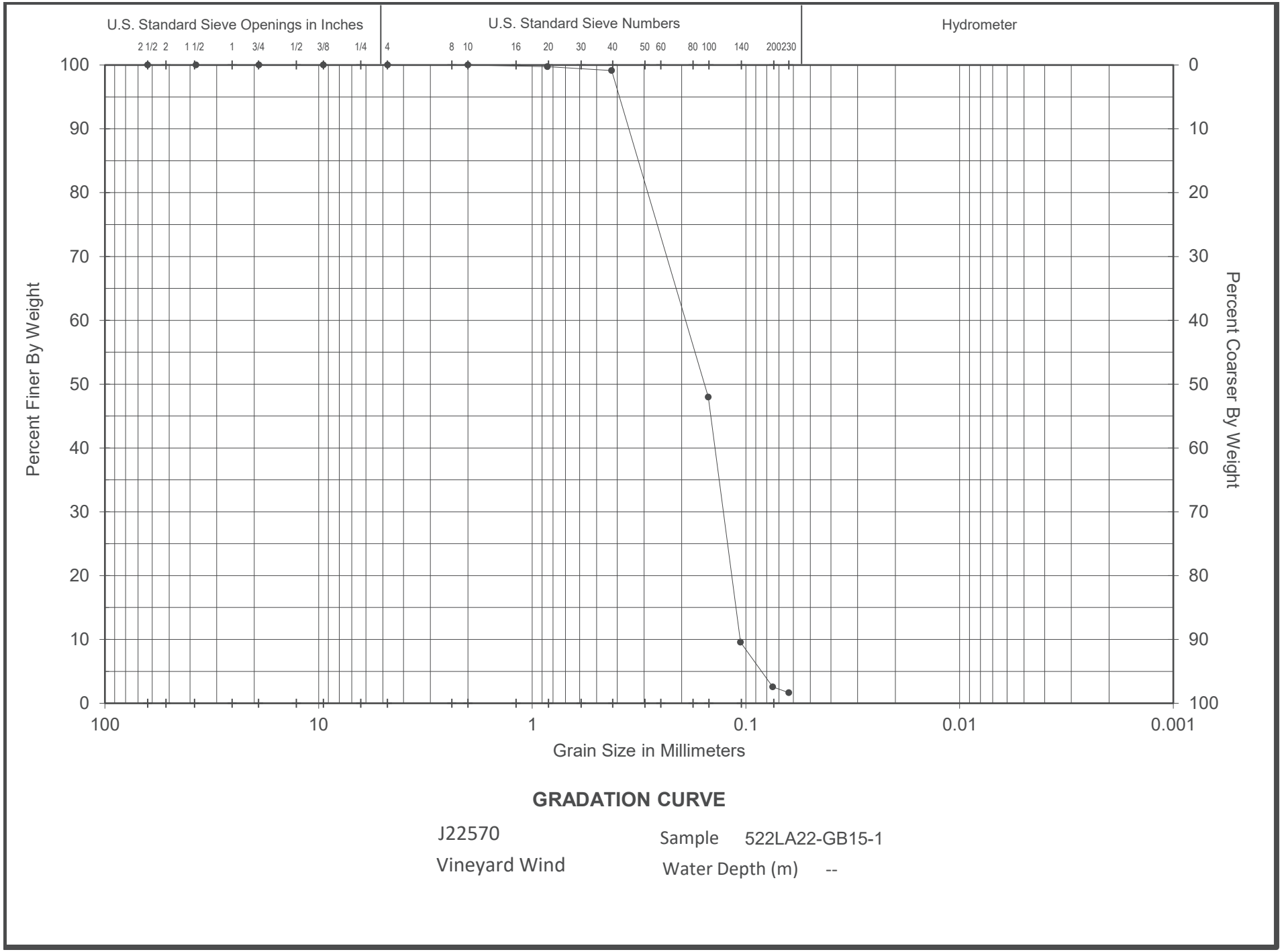
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.75	0.25	
0.425	40	99.13	0.87	
0.15	100	47.96	52.04	
0.106	140	9.56	90.44	
0.075	200	2.58	97.42	
0.063	230	1.66	98.34	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	1.66
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	98.34
% Silt and Clay	< 0.0625 mm	1.66
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.25
% Medium Sand	0.25 - 0.50 mm	0.61
% Fine Sand	0.0625 - 0.25 mm	97.48

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	47.96	0.150	9.56	0.106	0.106
D30	30	47.96	0.150	9.56	0.106	0.128
D50	50	99.13	0.425	47.96	0.150	0.156
D60	60	99.13	0.425	47.96	0.150	0.192

Uniformity Coefficient (Cu)	1.801
Coefficient of Curvature (Cc)	0.797



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB15-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB16-1
Water Depth (m)	--

Grain Size Data

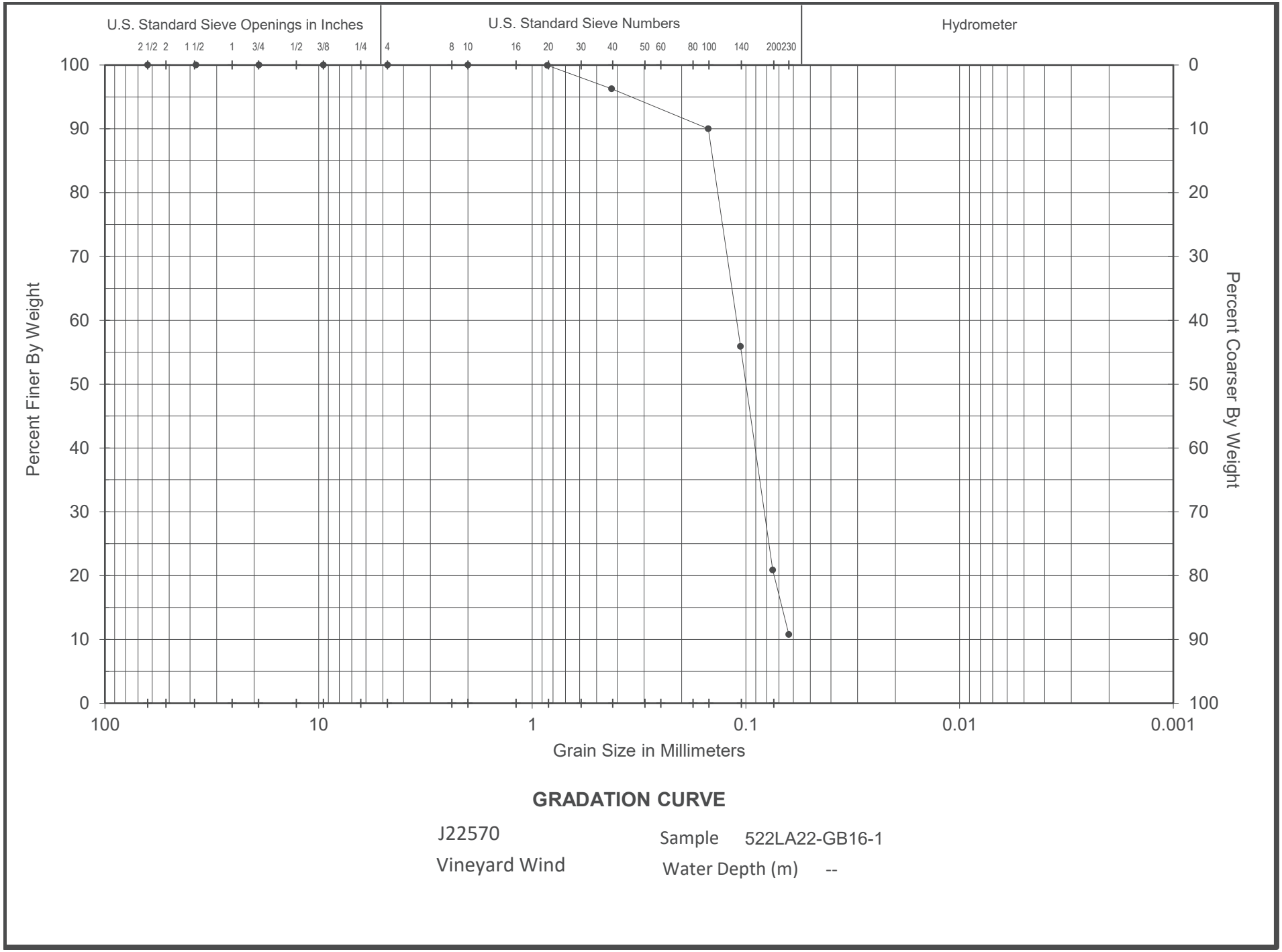
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.93	0.07	
0.425	40	96.27	3.73	
0.15	100	90.00	10.00	
0.106	140	55.91	44.09	
0.075	200	20.88	79.12	
0.063	230	10.79	89.21	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	10.79
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	89.21
% Silt and Clay	< 0.0625 mm	10.79
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.07
% Medium Sand	0.25 - 0.50 mm	3.66
% Fine Sand	0.0625 - 0.25 mm	85.48

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.79	0.063	#N/A	#N/A	#N/A
D30	30	55.91	0.106	20.88	0.075	0.082
D50	50	55.91	0.106	20.88	0.075	0.100
D60	60	90.00	0.150	55.91	0.106	0.111

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB16-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB17-1
Water Depth (m)	--

Grain Size Data

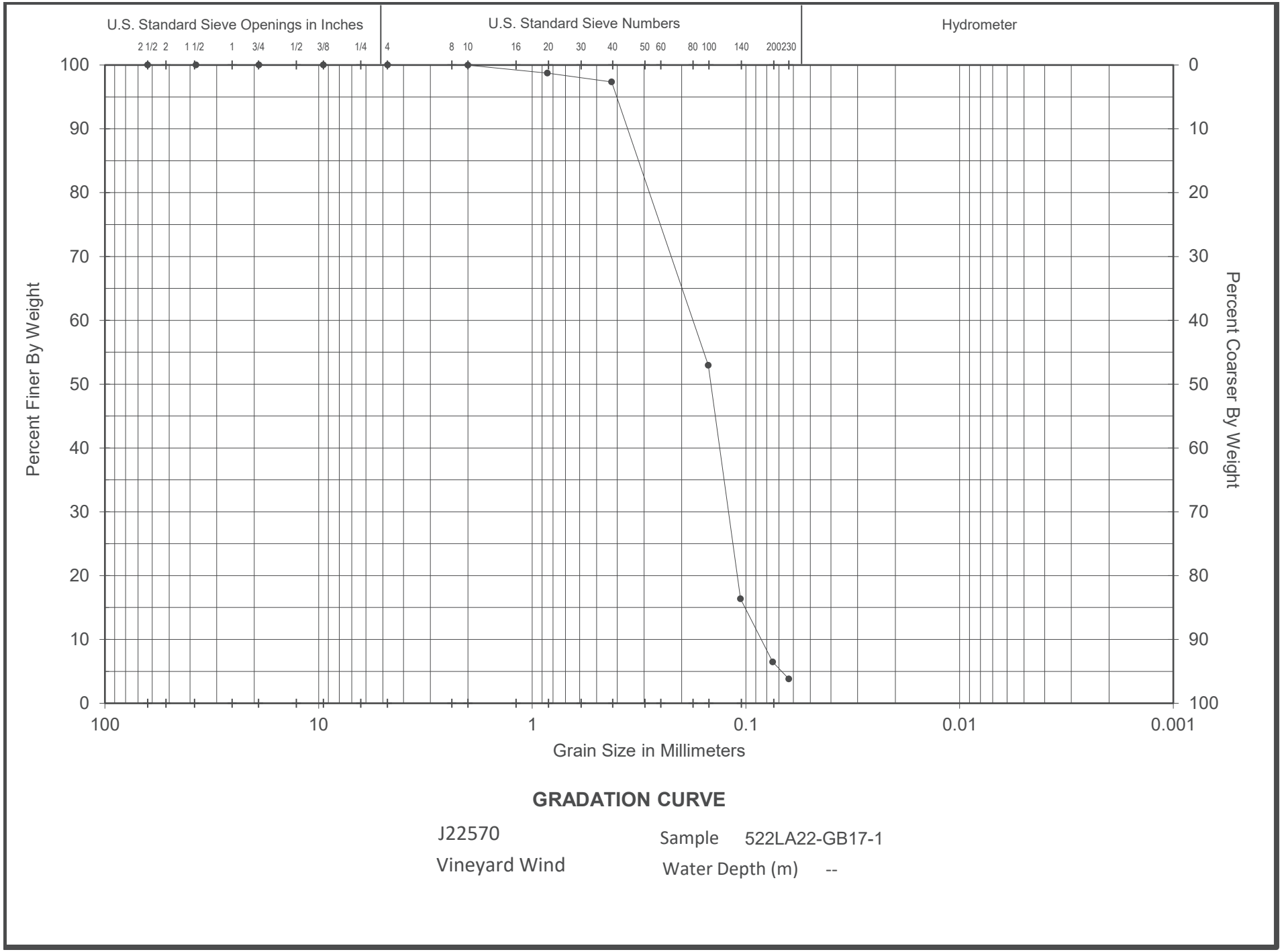
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	98.72	1.28	
0.425	40	97.34	2.66	
0.15	100	52.96	47.04	
0.106	140	16.36	83.64	
0.075	200	6.47	93.53	
0.063	230	3.82	96.18	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	3.82
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	96.17
% Silt and Clay	< 0.0625 mm	3.82
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.28
% Medium Sand	0.25 - 0.50 mm	1.38
% Fine Sand	0.0625 - 0.25 mm	93.52

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.36	0.106	6.47	0.075	0.085
D30	30	52.96	0.150	16.36	0.106	0.121
D50	50	52.96	0.150	16.36	0.106	0.146
D60	60	97.34	0.425	52.96	0.150	0.177

Uniformity Coefficient (Cu)	2.085
Coefficient of Curvature (Cc)	0.969



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB17-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB18-1
Water Depth (m)	--

Grain Size Data

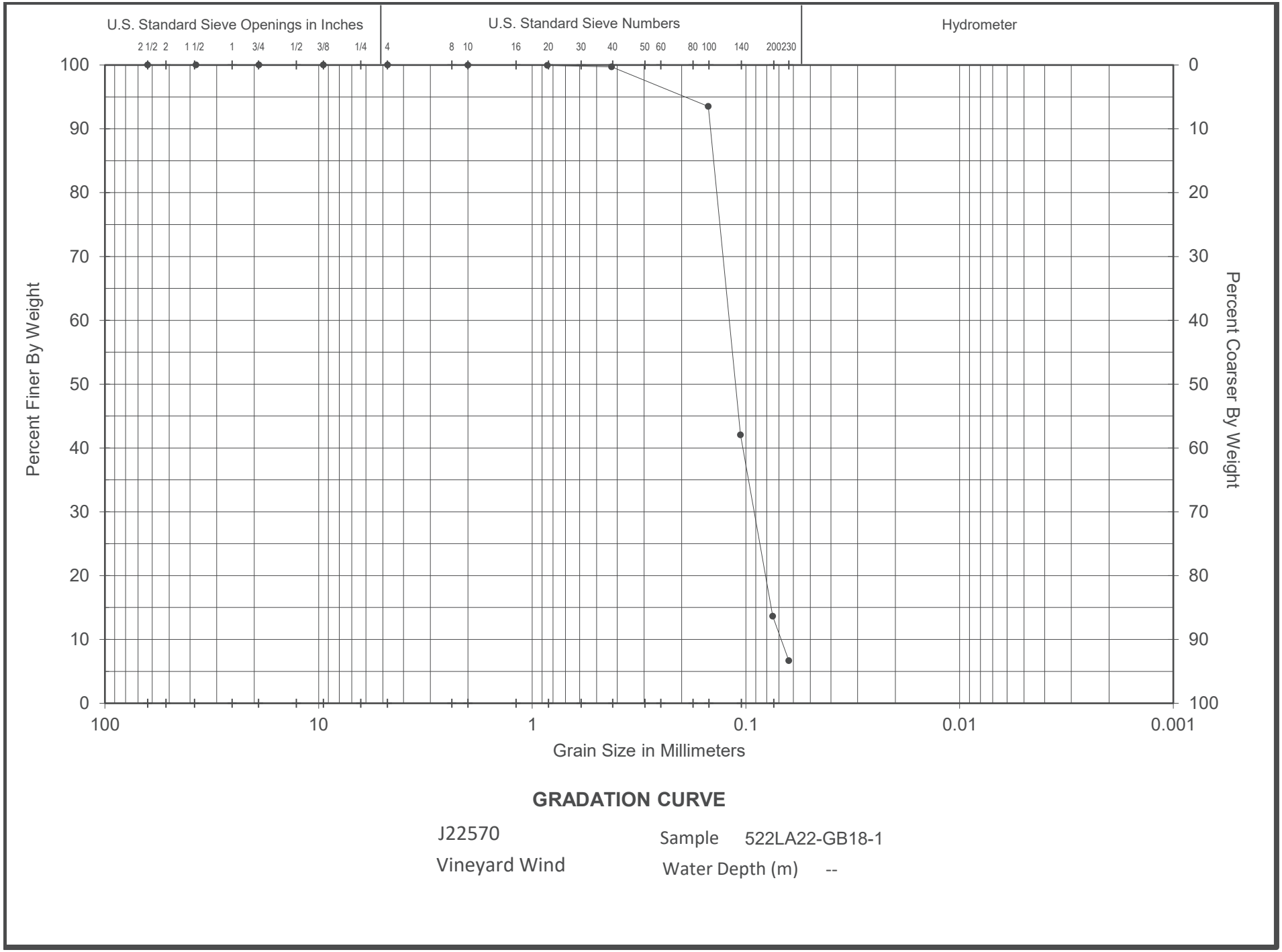
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	100.00
0.85	20	99.95	0.05	
0.425	40	99.72	0.28	
0.15	100	93.50	6.50	
0.106	140	42.05	57.95	
0.075	200	13.63	86.37	
0.063	230	6.67	93.33	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	6.67
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	93.30
% Silt and Clay	< 0.0625 mm	6.67
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	0.23
% Fine Sand	0.0625 - 0.25 mm	93.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.63	0.075	6.67	0.063	0.068
D30	30	42.05	0.106	13.63	0.075	0.092
D50	50	93.50	0.150	42.05	0.106	0.112
D60	60	93.50	0.150	42.05	0.106	0.120

Uniformity Coefficient (Cu)	1.747
Coefficient of Curvature (Cc)	1.023



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB18-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB19-1
Water Depth (m)	--

Grain Size Data

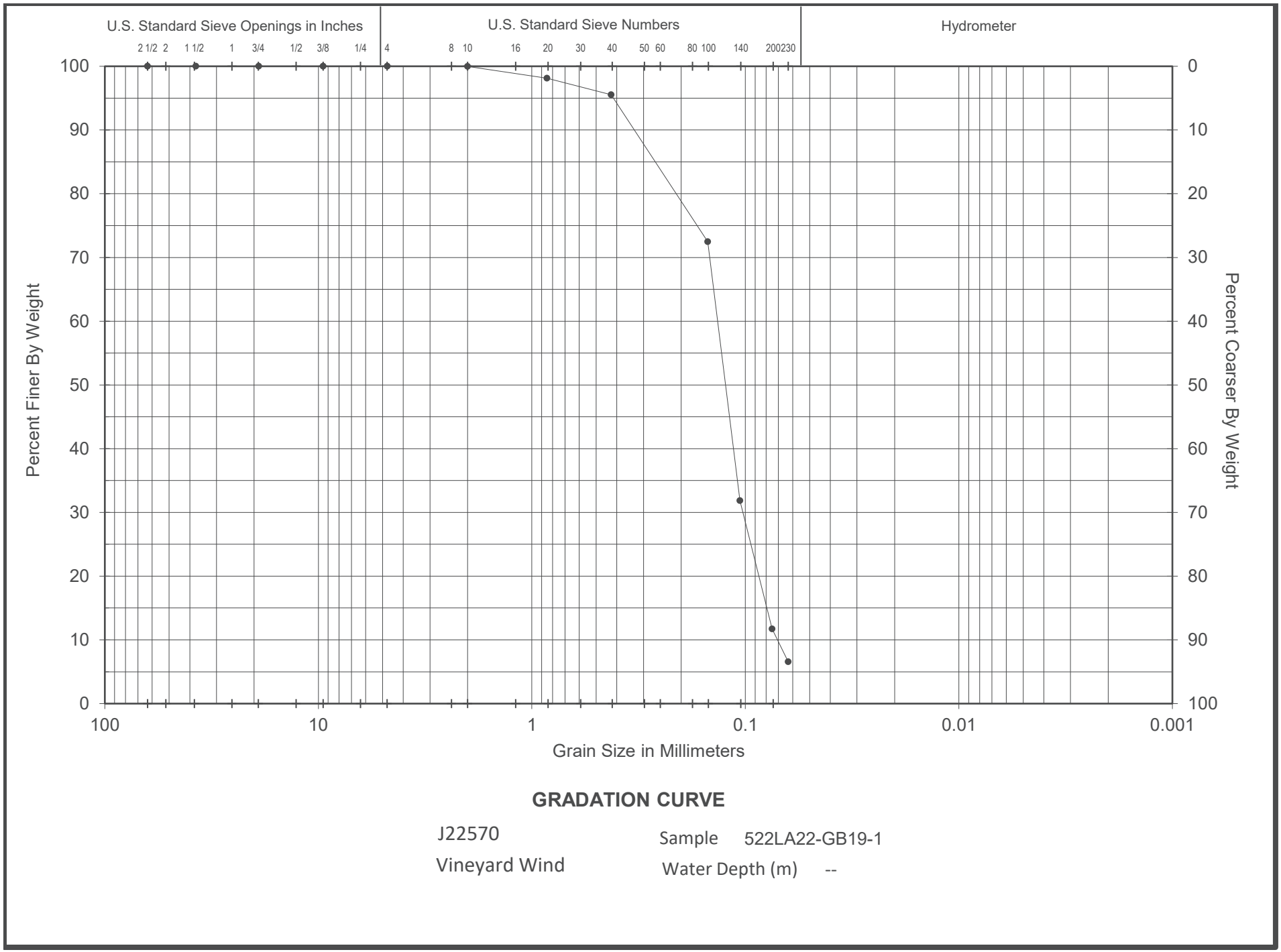
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	100.00
0.85	20	98.13	1.87	
0.425	40	95.55	4.45	
0.15	100	72.47	27.53	
0.106	140	31.86	68.14	
0.075	200	11.72	88.28	
0.063	230	6.56	93.44	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	6.56
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	93.42
% Silt and Clay	< 0.0625 mm	6.56
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.87
% Medium Sand	0.25 - 0.50 mm	2.58
% Fine Sand	0.0625 - 0.25 mm	88.98

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.72	0.075	6.56	0.063	0.071
D30	30	31.86	0.106	11.72	0.075	0.103
D50	50	72.47	0.150	31.86	0.106	0.124
D60	60	72.47	0.150	31.86	0.106	0.135

Uniformity Coefficient (Cu)	1.905
Coefficient of Curvature (Cc)	1.105



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB19-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB20-1
Water Depth (m)	--

Grain Size Data

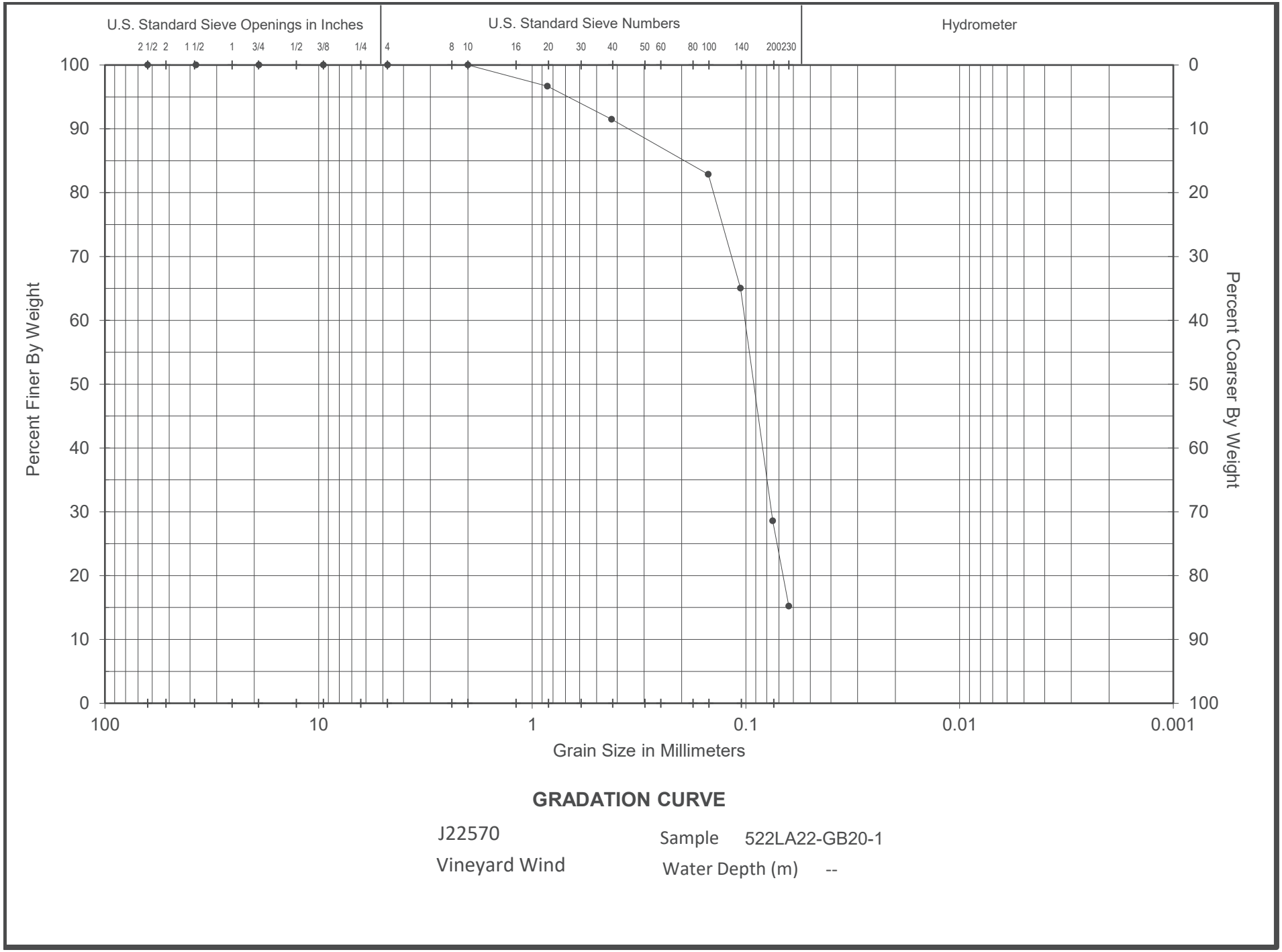
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	96.69	3.31	
0.425	40	91.50	8.50	
0.15	100	82.88	17.12	
0.106	140	65.03	34.97	
0.075	200	28.57	71.43	
0.063	230	15.20	84.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	15.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	84.80
% Silt and Clay	< 0.0625 mm	15.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.31
% Medium Sand	0.25 - 0.50 mm	5.19
% Fine Sand	0.0625 - 0.25 mm	76.30

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.20	0.063	#N/A	#N/A	#N/A
D30	30	65.03	0.106	28.57	0.075	0.076
D50	50	65.03	0.106	28.57	0.075	0.092
D60	60	65.03	0.106	28.57	0.075	0.101

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB20-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB21-1
Water Depth (m)	--

Grain Size Data

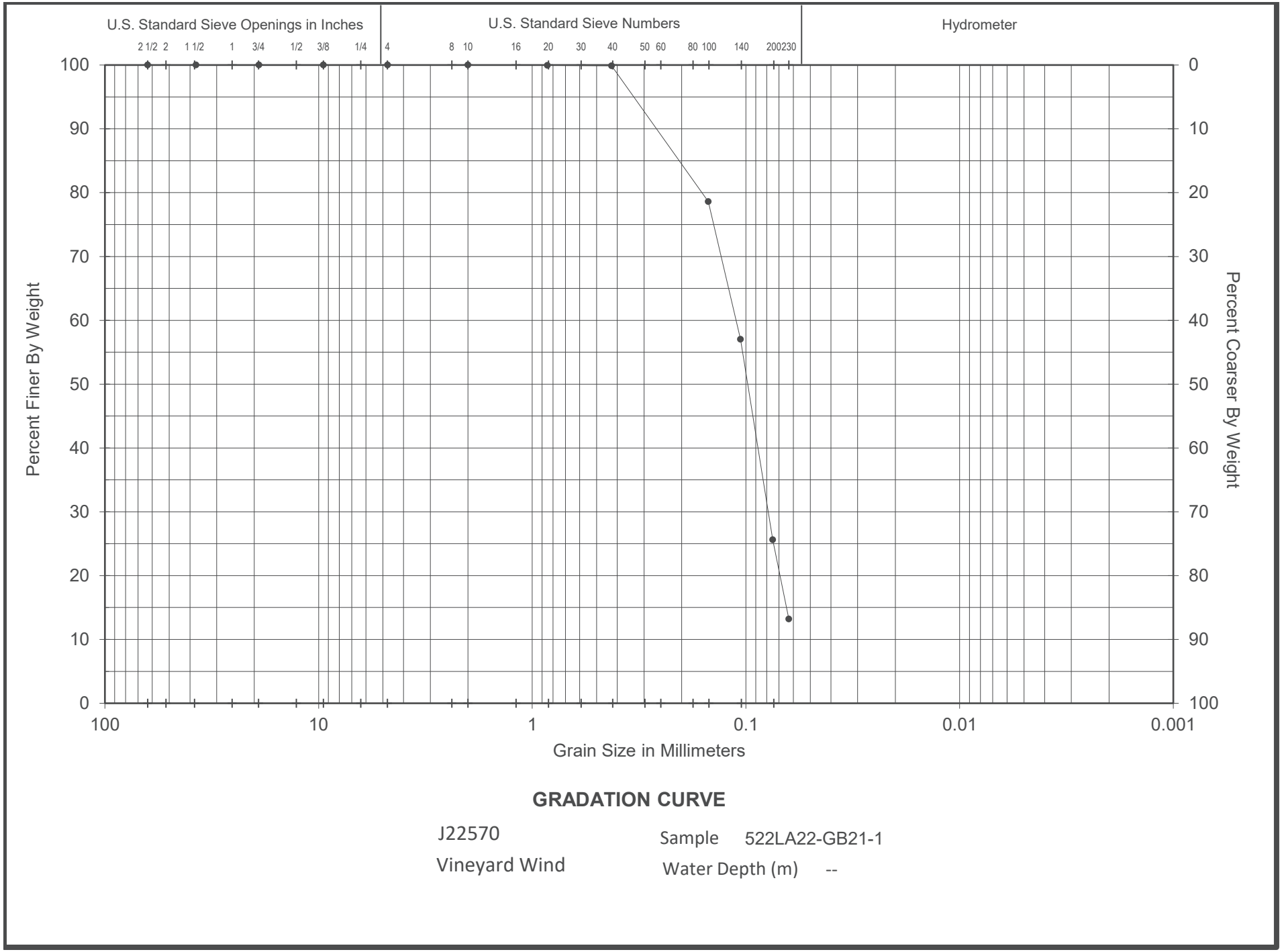
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.96	0.04	
0.425	40	99.87	0.13	
0.15	100	78.60	21.40	
0.106	140	57.02	42.98	
0.075	200	25.63	74.37	
0.063	230	13.20	86.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	13.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	86.80
% Silt and Clay	< 0.0625 mm	13.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.09
% Fine Sand	0.0625 - 0.25 mm	86.67

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.20	0.063	#N/A	#N/A	#N/A
D30	30	57.02	0.106	25.63	0.075	0.079
D50	50	57.02	0.106	25.63	0.075	0.098
D60	60	78.60	0.150	57.02	0.106	0.111

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB21-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB22-1
Water Depth (m)	--

Grain Size Data

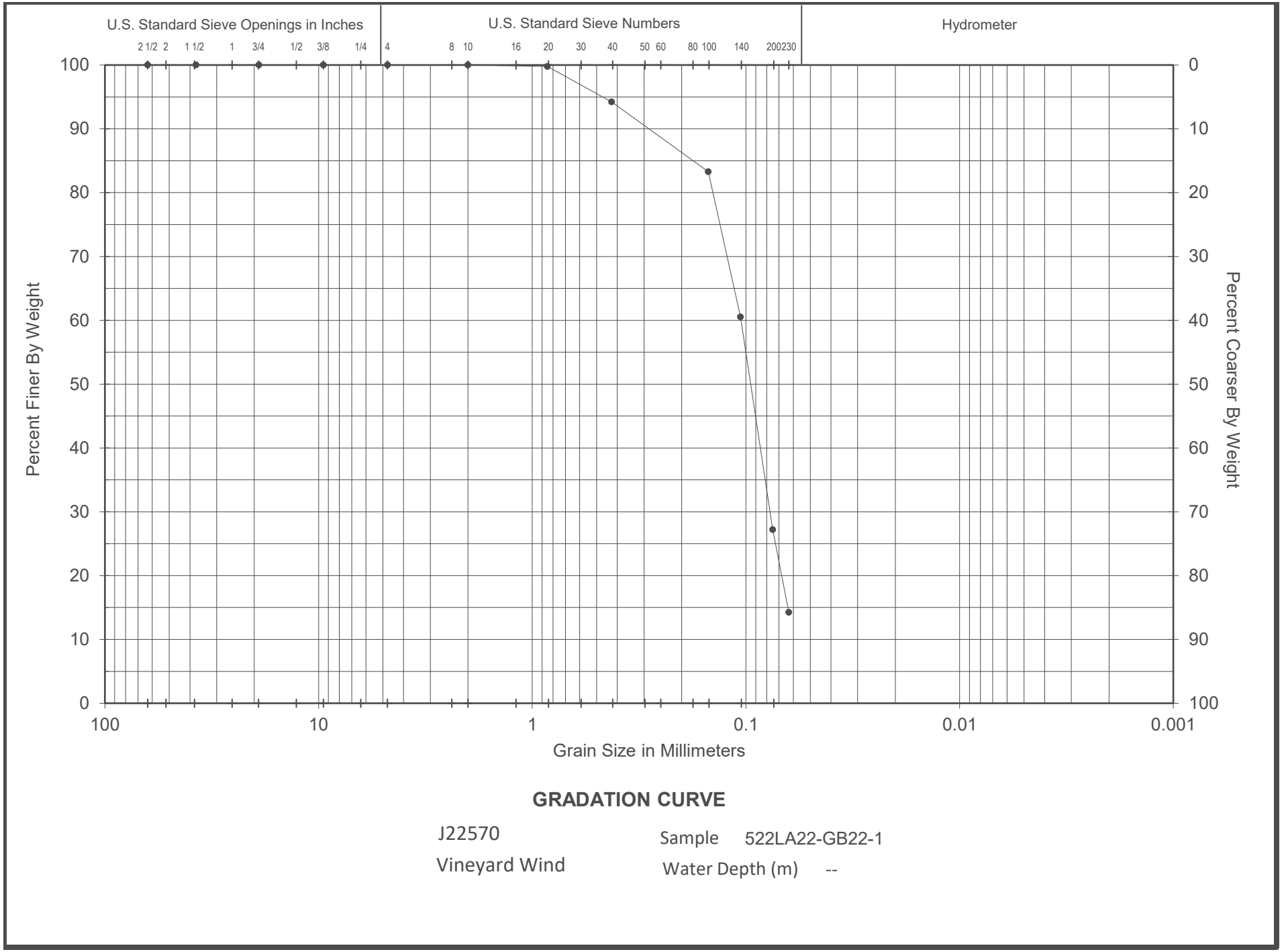
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.77	0.23	
0.425	40	94.23	5.77	
0.15	100	83.29	16.71	
0.106	140	60.53	39.47	
0.075	200	27.19	72.81	
0.063	230	14.25	85.75	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	14.25
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	85.75
% Silt and Clay	< 0.0625 mm	14.25
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.23
% Medium Sand	0.25 - 0.50 mm	5.54
% Fine Sand	0.0625 - 0.25 mm	79.98

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.25	0.063	#N/A	#N/A	#N/A
D30	30	60.53	0.106	27.19	0.075	0.077
D50	50	60.53	0.106	27.19	0.075	0.095
D60	60	60.53	0.106	27.19	0.075	0.105

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB22-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB23A-1
Water Depth (m)	--

Grain Size Data

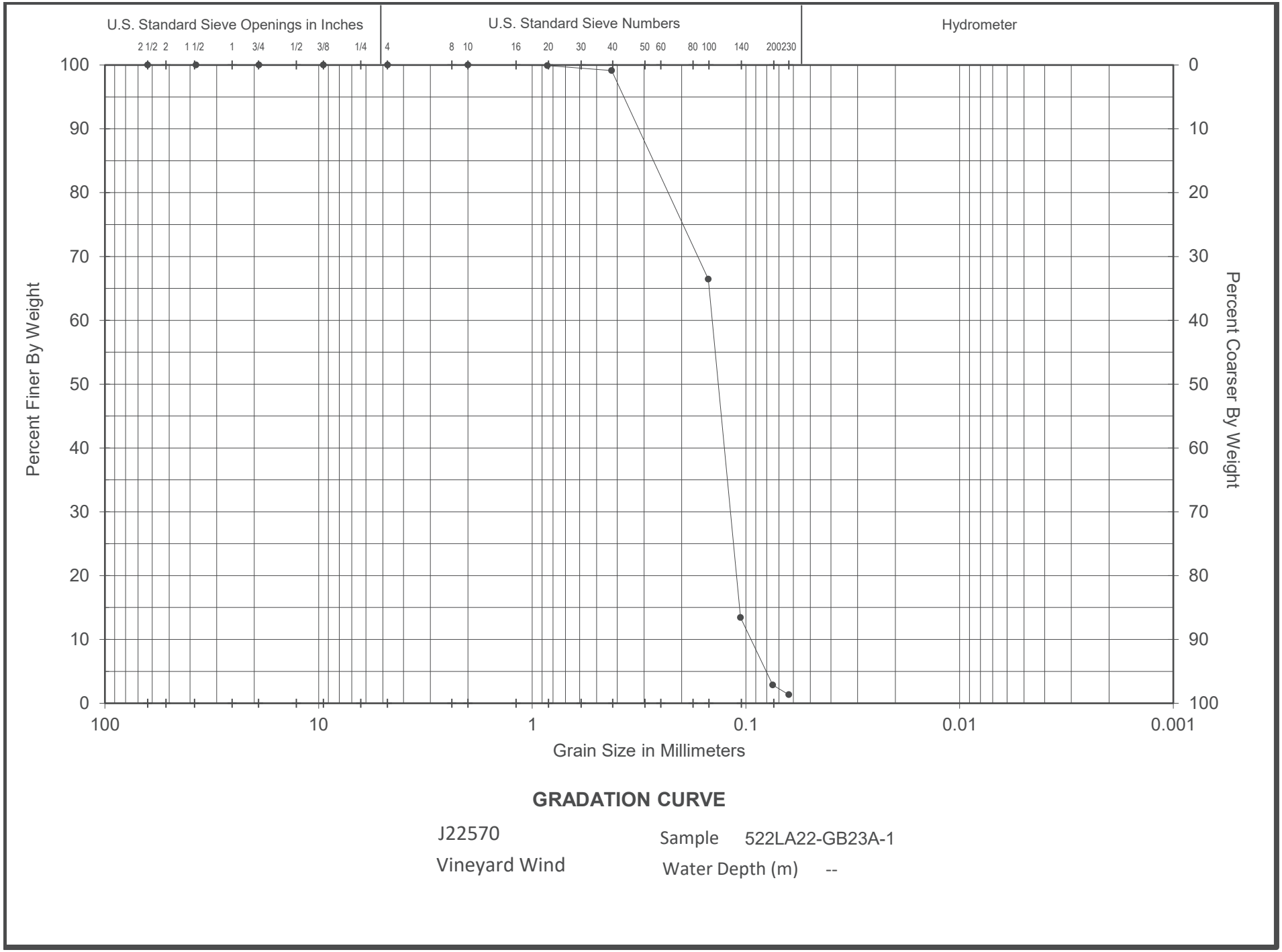
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.92	0.08	
0.425	40	99.14	0.86	
0.15	100	66.47	33.53	
0.106	140	13.42	86.58	
0.075	200	2.86	97.14	
0.063	230	1.34	98.66	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	1.34
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	98.66
% Silt and Clay	< 0.0625 mm	1.34
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.08
% Medium Sand	0.25 - 0.50 mm	0.77
% Fine Sand	0.0625 - 0.25 mm	97.80

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.42	0.106	2.86	0.075	0.095
D30	30	66.47	0.150	13.42	0.106	0.118
D50	50	66.47	0.150	13.42	0.106	0.135
D60	60	66.47	0.150	13.42	0.106	0.144

Uniformity Coefficient (Cu)	1.517
Coefficient of Curvature (Cc)	1.025



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB23A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB23B-1
Water Depth (m)	--

Grain Size Data

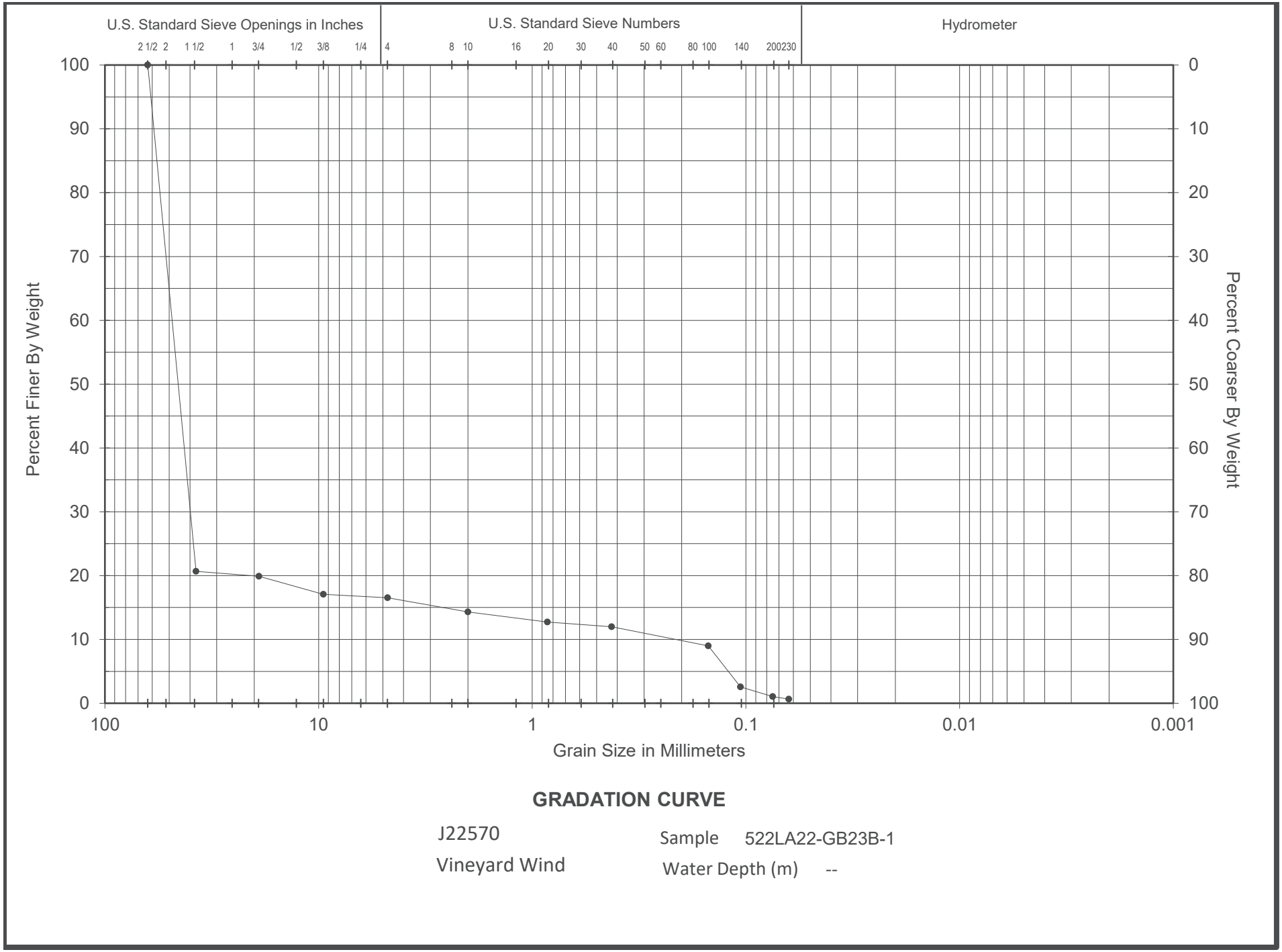
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	20.68	79.32	
19	3/4"	19.90	80.10	
9.5	3/8"	17.07	82.93	
4.75	4	16.52	83.48	
2	10	14.30	85.70	100.00
0.85	20	12.73	87.27	
0.425	40	11.99	88.01	
0.15	100	9.00	91.00	
0.106	140	2.57	97.43	
0.075	200	1.04	98.96	
0.063	230	0.65	99.35	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	14.30
% Passing #230	0.65
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	85.70
% Sand	0.0625 - 2.00 mm	13.64
% Silt and Clay	< 0.0625 mm	0.65
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.79
% Medium Sand	0.25 - 0.50 mm	0.74
% Fine Sand	0.0625 - 0.25 mm	11.34

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.99	0.425	9.00	0.150	0.213
D30	30	100.00	63.000	20.68	37.500	39.857
D50	50	100.00	63.000	20.68	37.500	45.427
D60	60	100.00	63.000	20.68	37.500	48.497

Uniformity Coefficient (Cu)	228.003
Coefficient of Curvature (Cc)	153.996



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB23B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB23C-1
Water Depth (m)	--

Grain Size Data

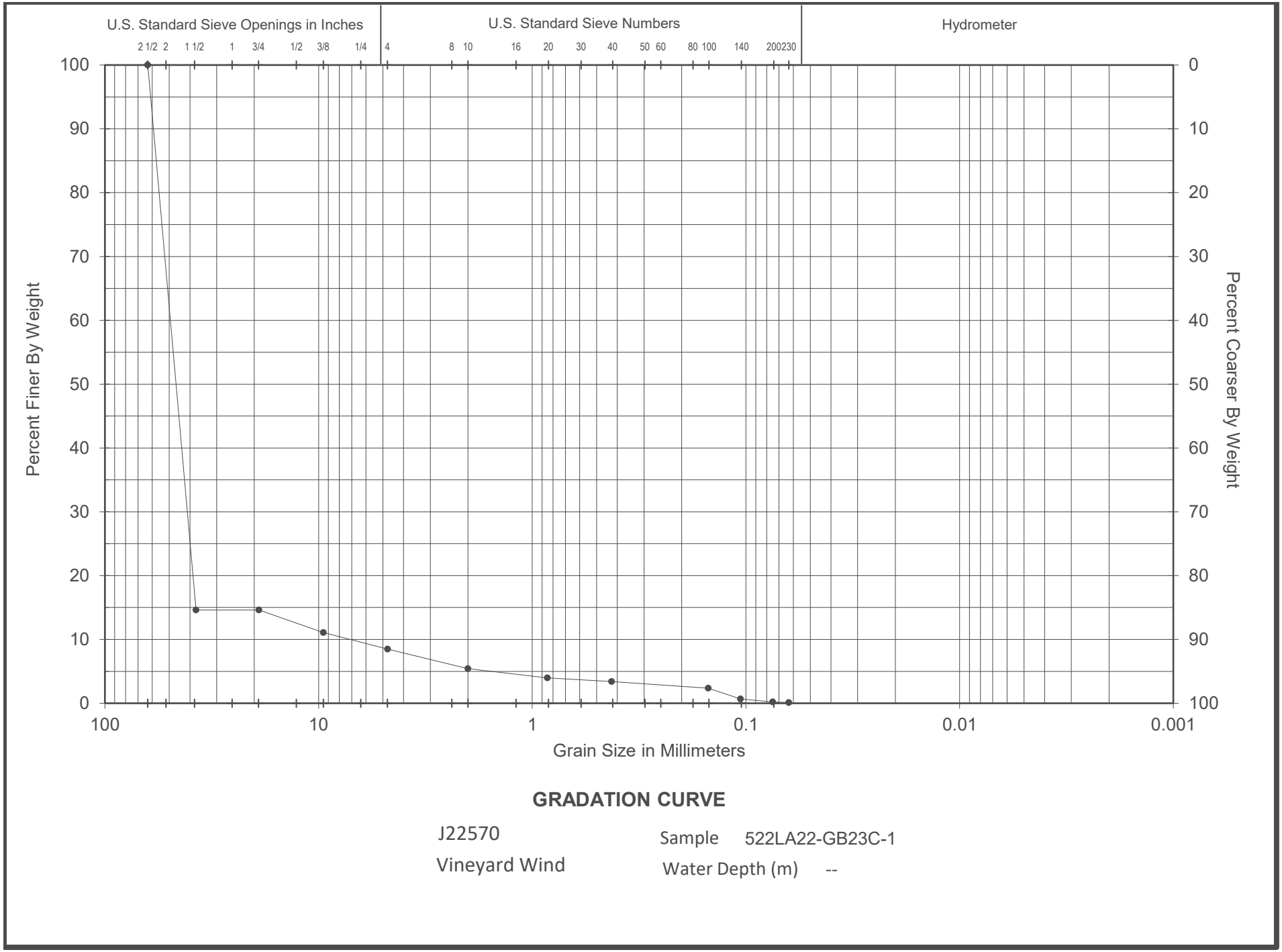
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	14.61	85.39	
19	3/4"	14.61	85.39	
9.5	3/8"	11.06	88.94	
4.75	4	8.48	91.52	
2	10	5.43	94.57	100.00
0.85	20	3.96	96.04	
0.425	40	3.41	96.59	
0.15	100	2.35	97.65	
0.106	140	0.67	99.33	
0.075	200	0.21	99.79	
0.063	230	0.12	99.88	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	5.43
% Passing #230	0.12
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	94.57
% Sand	0.0625 - 2.00 mm	5.31
% Silt and Clay	< 0.0625 mm	0.12
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.52
% Medium Sand	0.25 - 0.50 mm	0.56
% Fine Sand	0.0625 - 0.25 mm	3.29

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.06	9.500	8.48	4.750	7.144
D30	30	100.00	63.000	14.61	37.500	41.175
D50	50	100.00	63.000	14.61	37.500	46.495
D60	60	100.00	63.000	14.61	37.500	49.407

Uniformity Coefficient (Cu)	6.916
Coefficient of Curvature (Cc)	4.803



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB23C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB24A-1
Water Depth (m)	--

Grain Size Data

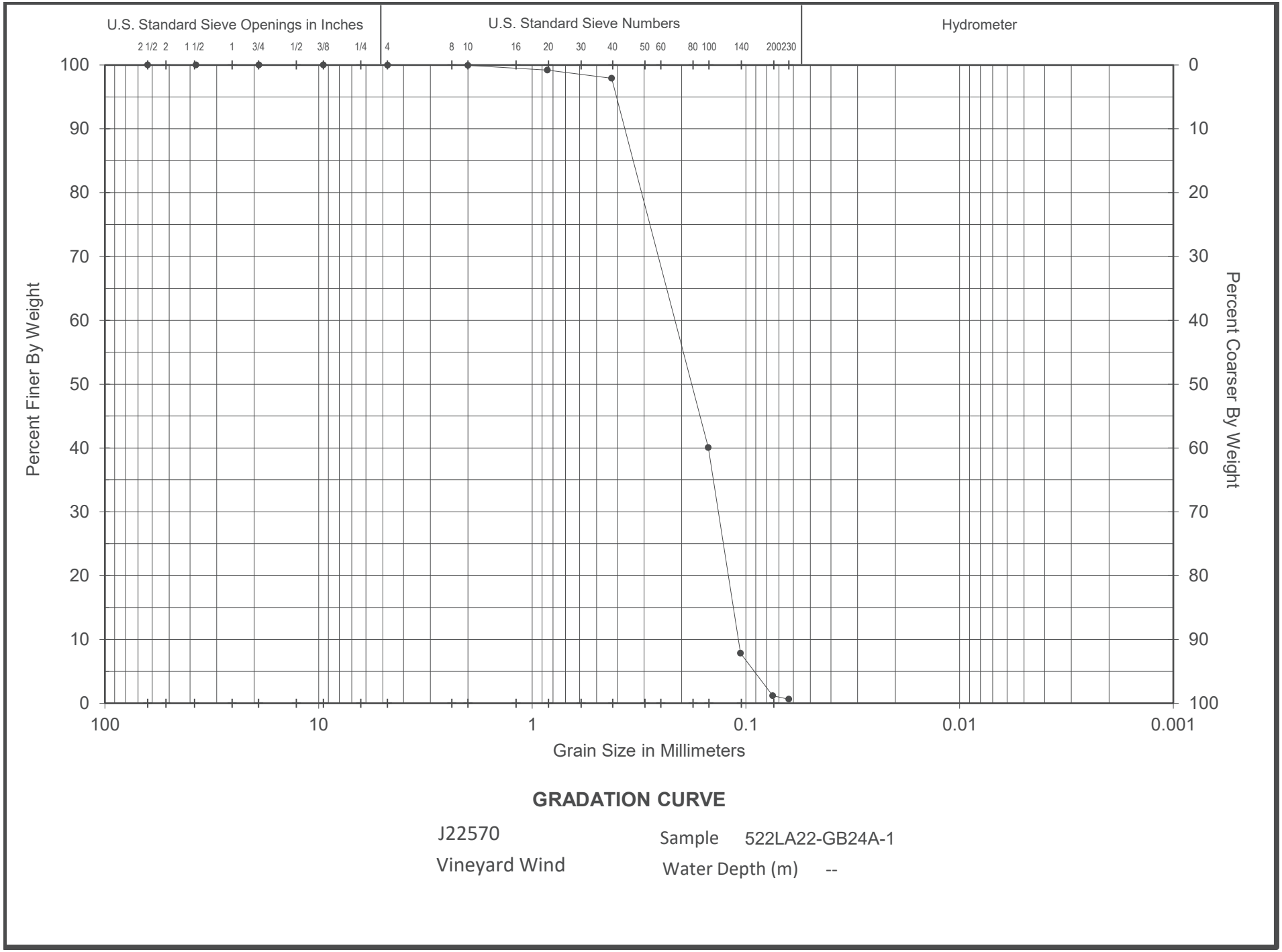
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.93	0.07	10.00
0.85	20	99.20	0.80	
0.425	40	97.94	2.06	
0.15	100	40.06	59.94	
0.106	140	7.86	92.14	
0.075	200	1.19	98.81	
0.063	230	0.63	99.37	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.93
% Passing #230	0.63
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.30
% Silt and Clay	< 0.0625 mm	0.63
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.77
% Medium Sand	0.25 - 0.50 mm	1.26
% Fine Sand	0.0625 - 0.25 mm	97.31

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	40.06	0.150	7.86	0.106	0.108
D30	30	40.06	0.150	7.86	0.106	0.135
D50	50	97.94	0.425	40.06	0.150	0.179
D60	60	97.94	0.425	40.06	0.150	0.215

Uniformity Coefficient (Cu)	1.980
Coefficient of Curvature (Cc)	0.778



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB24A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB24B-1
Water Depth (m)	--

Grain Size Data

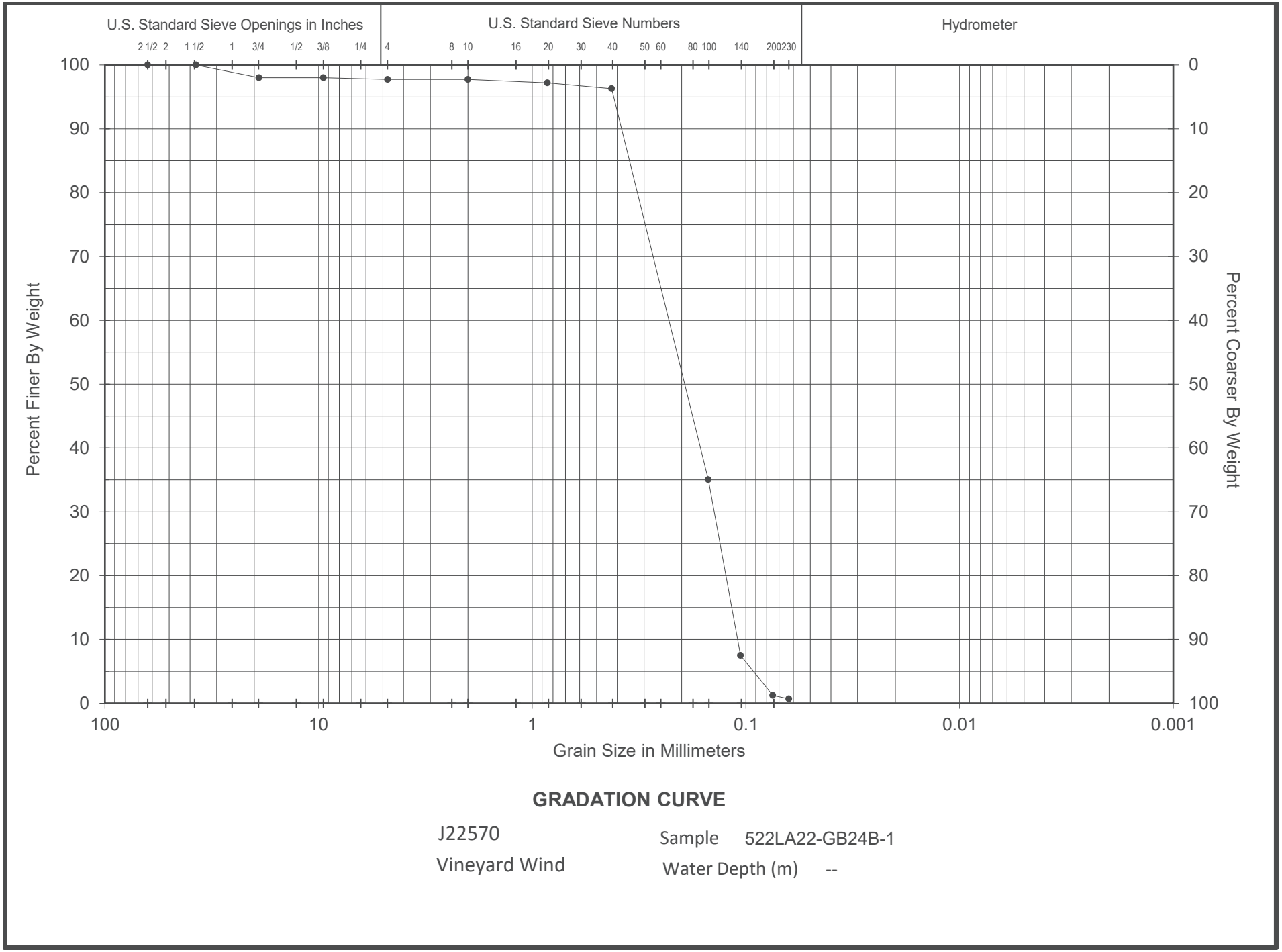
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.01	1.99	
9.5	3/8"	98.01	1.99	
4.75	4	97.75	2.25	
2	10	97.74	2.26	100.00
0.85	20	97.20	2.80	
0.425	40	96.30	3.70	
0.15	100	35.05	64.95	
0.106	140	7.52	92.48	
0.075	200	1.24	98.76	
0.063	230	0.70	99.30	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.74
% Passing #230	0.70
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	2.26
% Sand	0.0625 - 2.00 mm	97.04
% Silt and Clay	< 0.0625 mm	0.70
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.55
% Medium Sand	0.25 - 0.50 mm	0.90
% Fine Sand	0.0625 - 0.25 mm	95.60

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	35.05	0.150	7.52	0.106	0.109
D30	30	35.05	0.150	7.52	0.106	0.141
D50	50	96.30	0.425	35.05	0.150	0.193
D60	60	96.30	0.425	35.05	0.150	0.229

Uniformity Coefficient (Cu)	2.096
Coefficient of Curvature (Cc)	0.790



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB24B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB24C-1
Water Depth (m)	--

Grain Size Data

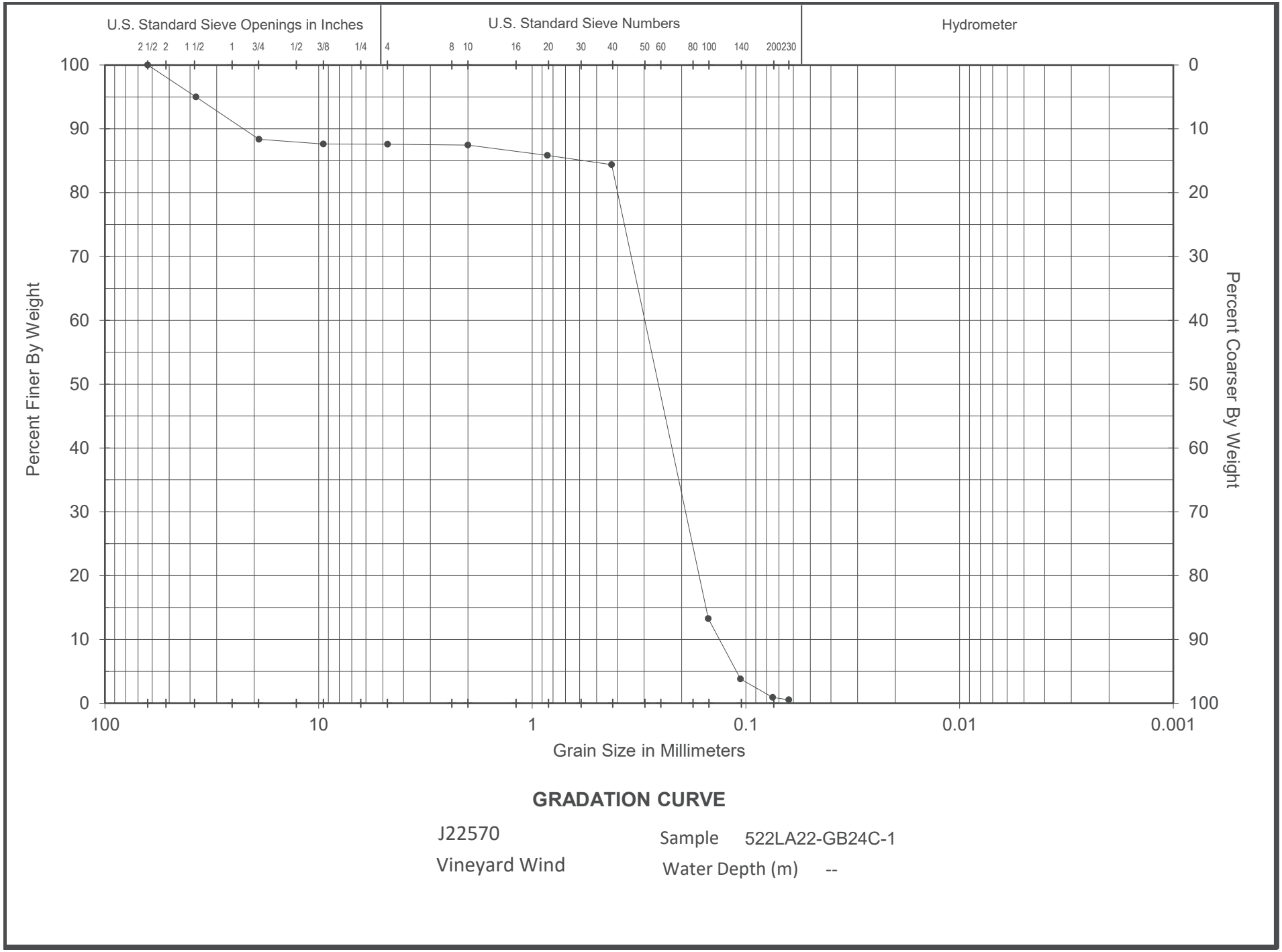
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	95.00	5.00	
19	3/4"	88.38	11.62	
9.5	3/8"	87.62	12.38	
4.75	4	87.58	12.42	
2	10	87.45	12.55	99.23
0.85	20	85.84	14.16	
0.425	40	84.40	15.60	
0.15	100	13.27	86.73	
0.106	140	3.79	96.21	
0.075	200	0.91	99.09	
0.063	230	0.53	99.47	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	87.45
% Passing #230	0.53
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.10
% Gravel-Sized Shell	> 2.00 mm	12.46
% Sand	0.0625 - 2.00 mm	86.91
% Silt and Clay	< 0.0625 mm	0.53
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.75
% Medium Sand	0.25 - 0.50 mm	1.44
% Fine Sand	0.0625 - 0.25 mm	83.87

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.27	0.150	3.79	0.106	0.133
D30	30	84.40	0.425	13.27	0.150	0.192
D50	50	84.40	0.425	13.27	0.150	0.257
D60	60	84.40	0.425	13.27	0.150	0.297

Uniformity Coefficient (Cu)	2.235
Coefficient of Curvature (Cc)	0.928



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB24C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB25A-1
Water Depth (m)	--

Grain Size Data

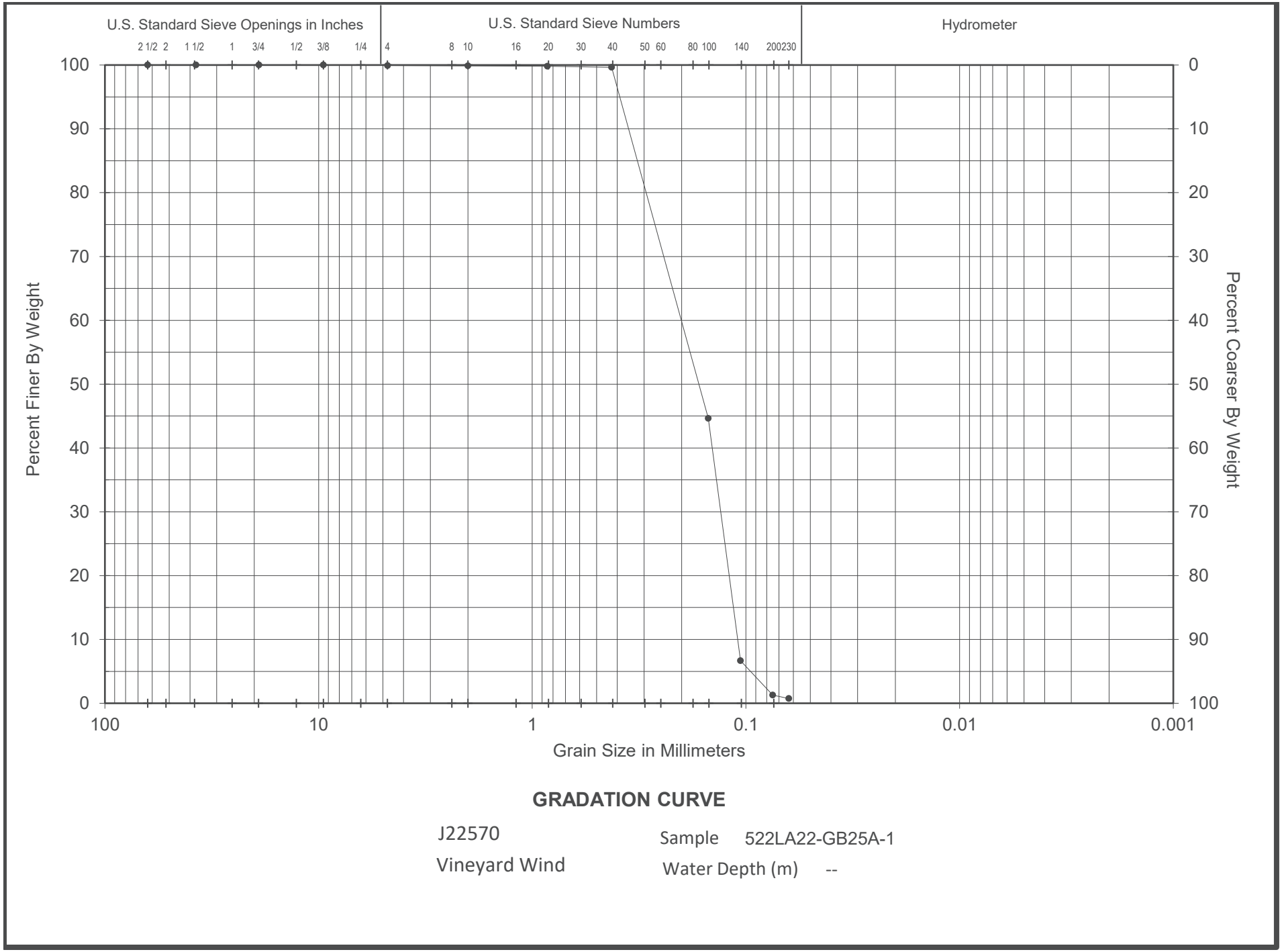
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.91	0.09	
2	10	99.87	0.13	100.00
0.85	20	99.82	0.18	
0.425	40	99.63	0.37	
0.15	100	44.62	55.38	
0.106	140	6.66	93.34	
0.075	200	1.27	98.73	
0.063	230	0.74	99.26	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.87
% Passing #230	0.74
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.13
% Sand	0.0625 - 2.00 mm	99.13
% Silt and Clay	< 0.0625 mm	0.74
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.09
% Medium Sand	0.25 - 0.50 mm	0.19
% Fine Sand	0.0625 - 0.25 mm	98.90

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	44.62	0.150	6.66	0.106	0.109
D30	30	44.62	0.150	6.66	0.106	0.131
D50	50	99.63	0.425	44.62	0.150	0.166
D60	60	99.63	0.425	44.62	0.150	0.201

Uniformity Coefficient (Cu)	1.836
Coefficient of Curvature (Cc)	0.785



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB25A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB25B-1
Water Depth (m)	--

Grain Size Data

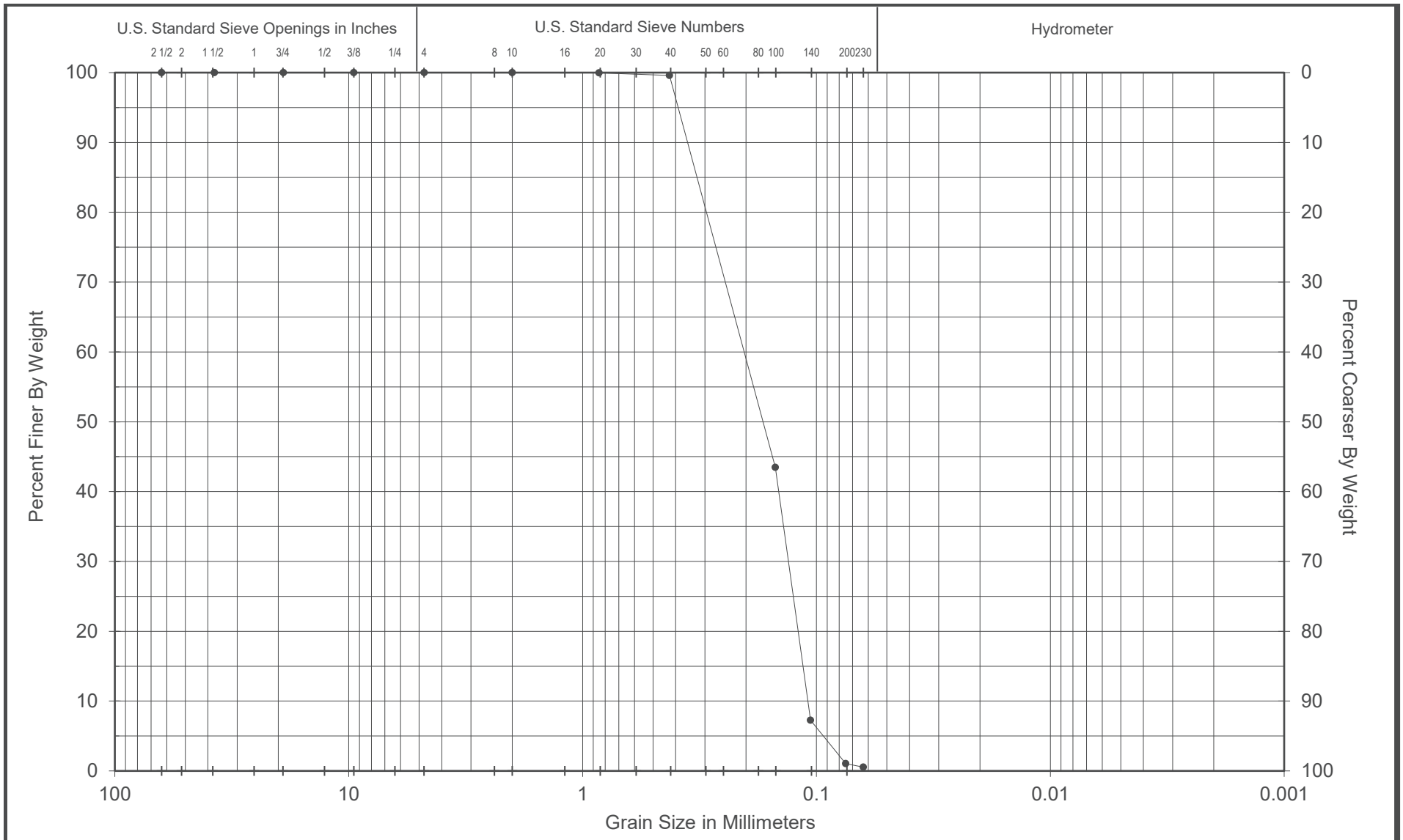
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.95	0.05	
0.425	40	99.59	0.41	
0.15	100	43.47	56.53	
0.106	140	7.24	92.76	
0.075	200	1.05	98.95	
0.063	230	0.54	99.46	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.54
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.45
% Silt and Clay	< 0.0625 mm	0.54
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	0.36
% Fine Sand	0.0625 - 0.25 mm	99.06

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	43.47	0.150	7.24	0.106	0.109
D30	30	43.47	0.150	7.24	0.106	0.132
D50	50	99.59	0.425	43.47	0.150	0.169
D60	60	99.59	0.425	43.47	0.150	0.204

Uniformity Coefficient (Cu)	1.873
Coefficient of Curvature (Cc)	0.783



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB25B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522LA22-GB25C-1
Water Depth (m)	--

Grain Size Data

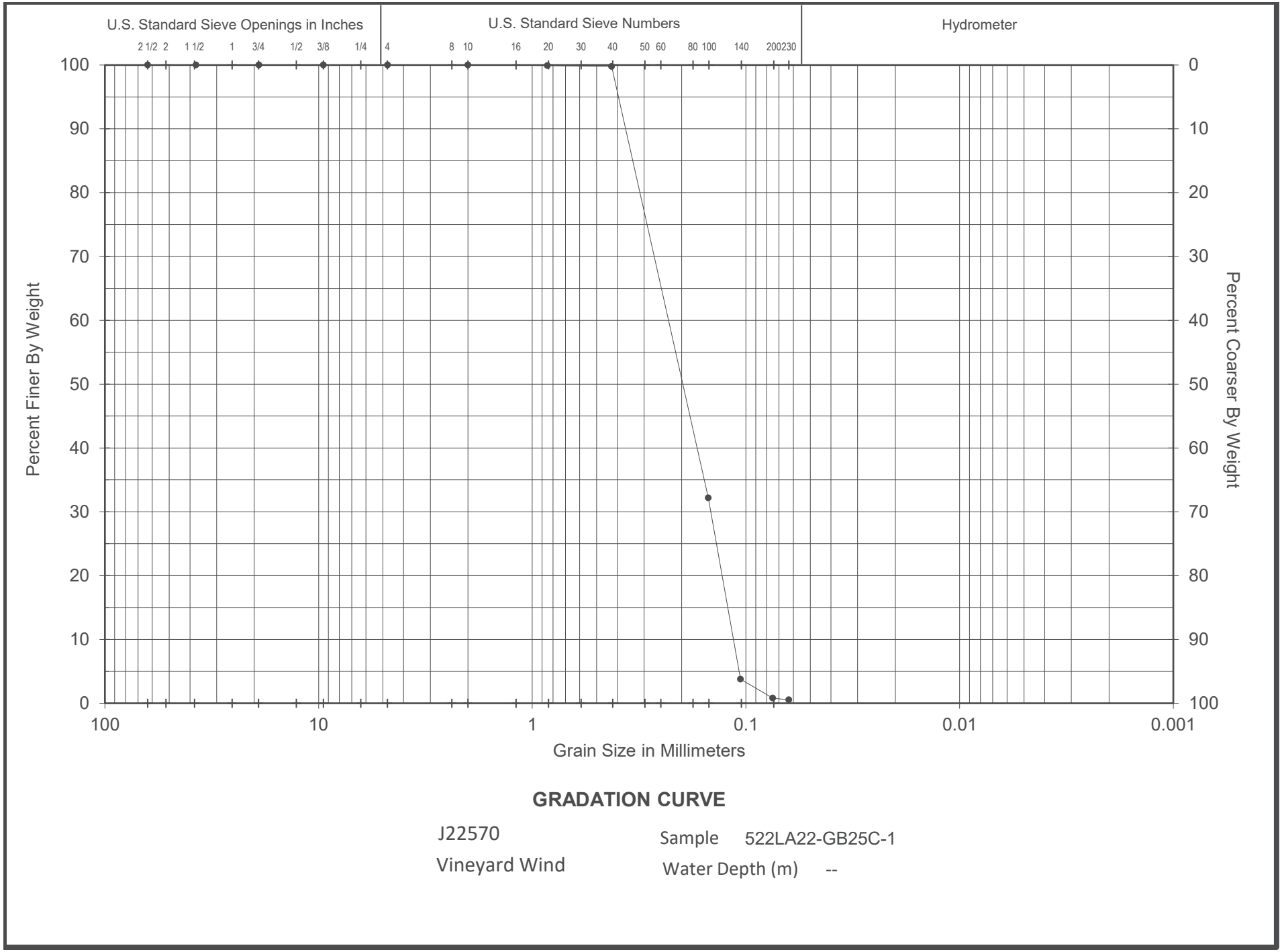
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.92	0.08	
0.425	40	99.78	0.22	
0.15	100	32.17	67.83	
0.106	140	3.77	96.23	
0.075	200	0.82	99.18	
0.063	230	0.53	99.47	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.53
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.47
% Silt and Clay	< 0.0625 mm	0.53
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.08
% Medium Sand	0.25 - 0.50 mm	0.14
% Fine Sand	0.0625 - 0.25 mm	99.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	32.17	0.150	3.77	0.106	0.114
D30	30	32.17	0.150	3.77	0.106	0.146
D50	50	99.78	0.425	32.17	0.150	0.197
D60	60	99.78	0.425	32.17	0.150	0.230

Uniformity Coefficient (Cu)	2.013
Coefficient of Curvature (Cc)	0.810



GRADATION CURVE

J22570

Vineyard Wind

Sample 522LA22-GB25C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB01-1
Water Depth (m)	7

Grain Size Data

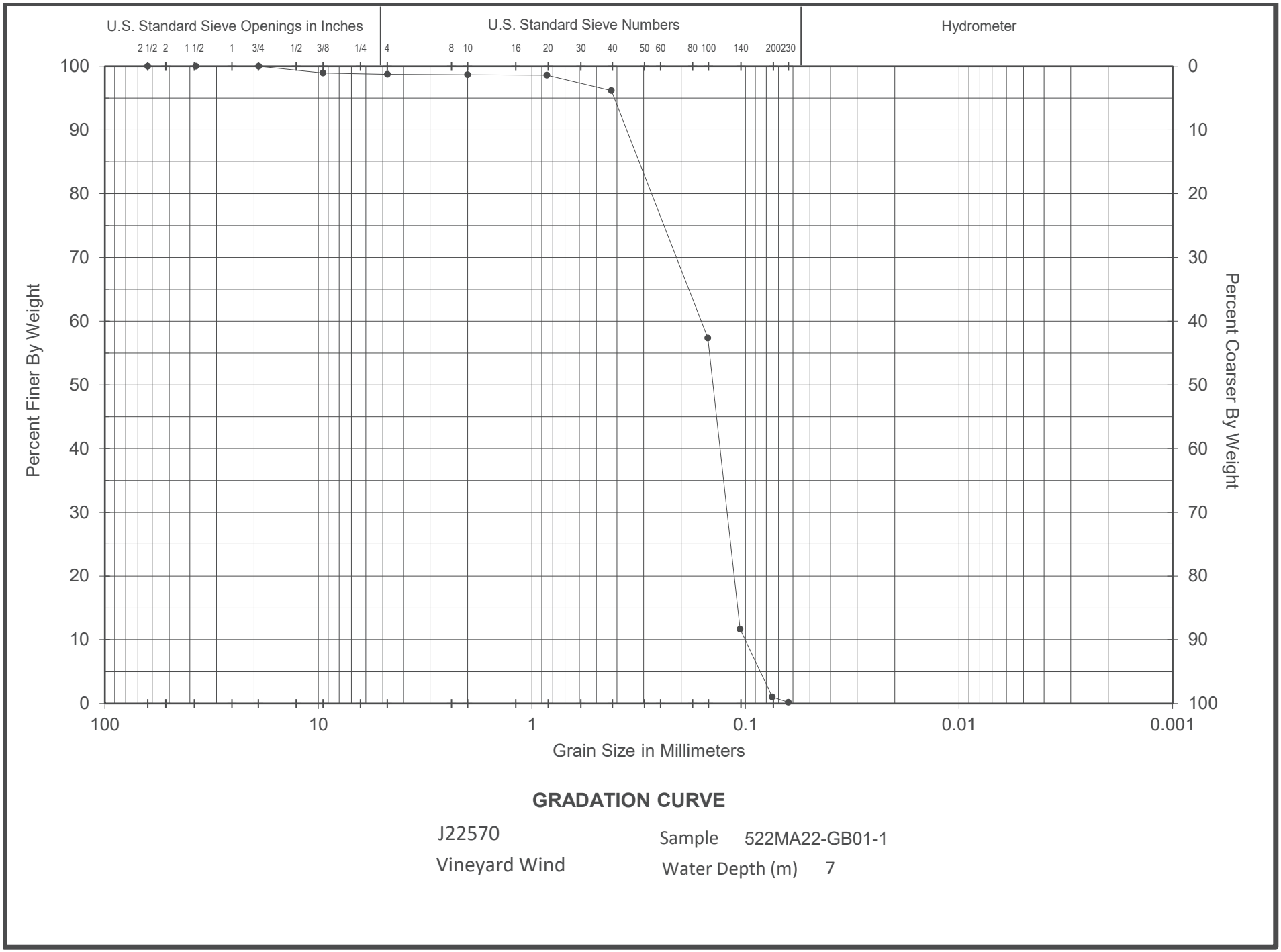
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.97	1.03	
4.75	4	98.76	1.24	
2	10	98.70	1.30	0.48
0.85	20	98.60	1.40	
0.425	40	96.17	3.83	
0.15	100	57.34	42.66	
0.106	140	11.66	88.34	
0.075	200	1.03	98.97	
0.063	230	0.20	99.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.70
% Passing #230	0.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.30
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	98.49
% Silt and Clay	< 0.0625 mm	0.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.16
% Medium Sand	0.25 - 0.50 mm	2.43
% Fine Sand	0.0625 - 0.25 mm	95.97

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.66	0.106	1.03	0.075	0.100
D30	30	57.34	0.150	11.66	0.106	0.122
D50	50	57.34	0.150	11.66	0.106	0.142
D60	60	96.17	0.425	57.34	0.150	0.161

Uniformity Coefficient (Cu)	1.604
Coefficient of Curvature (Cc)	0.918



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB01-1

Water Depth (m) 7

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB02A-1
Water Depth (m)	11

Grain Size Data

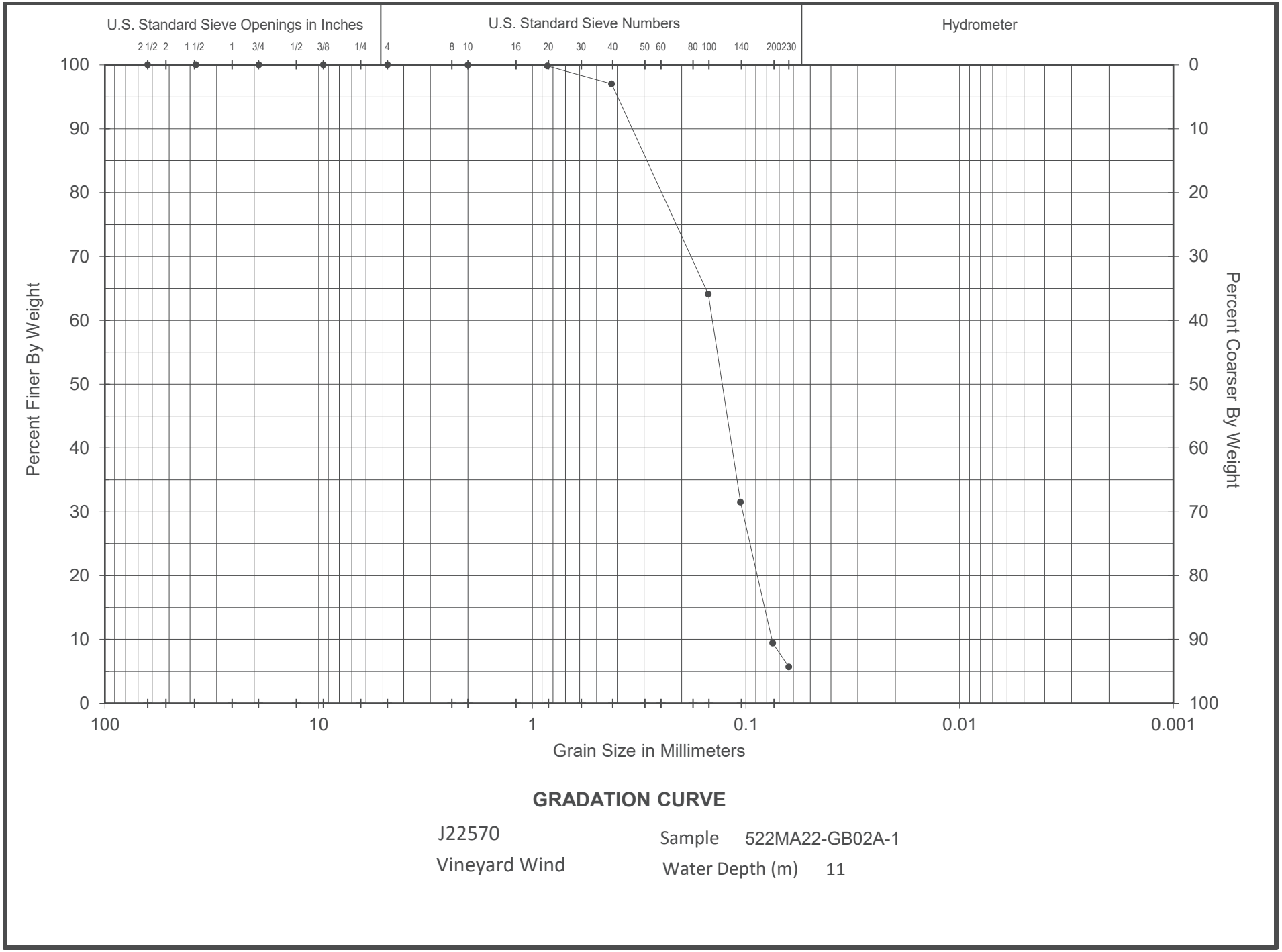
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.84	0.16	
0.425	40	97.05	2.95	
0.15	100	64.09	35.91	
0.106	140	31.50	68.50	
0.075	200	9.42	90.58	
0.063	230	5.70	94.30	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	5.70
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	94.30
% Silt and Clay	< 0.0625 mm	5.70
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.16
% Medium Sand	0.25 - 0.50 mm	2.79
% Fine Sand	0.0625 - 0.25 mm	91.35

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.50	0.106	9.42	0.075	0.076
D30	30	31.50	0.106	9.42	0.075	0.104
D50	50	64.09	0.150	31.50	0.106	0.129
D60	60	64.09	0.150	31.50	0.106	0.144

Uniformity Coefficient (Cu)	1.897
Coefficient of Curvature (Cc)	0.986



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB02A-1

Water Depth (m) 11

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB02B-1
Water Depth (m)	11

Grain Size Data

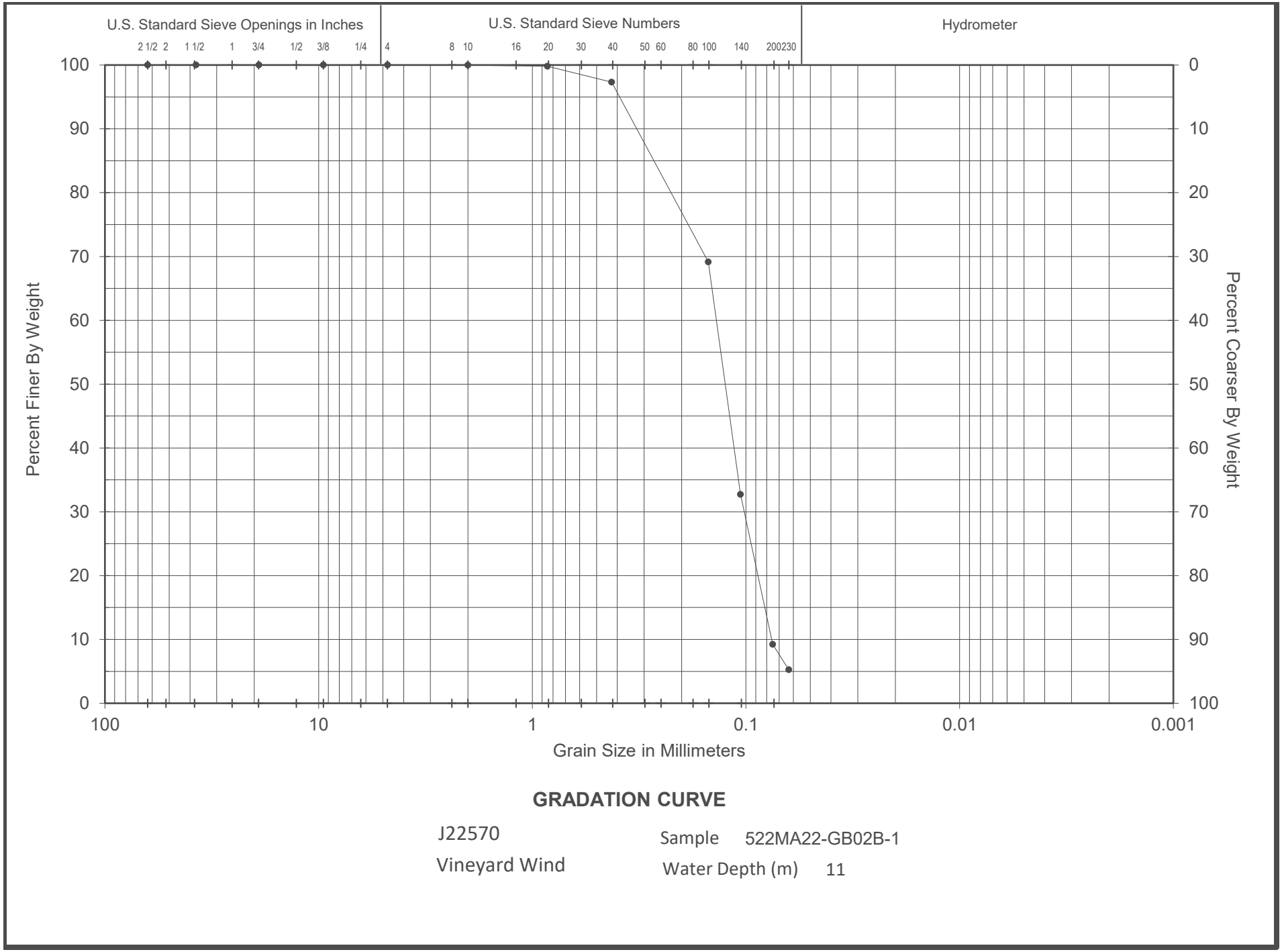
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	26.00
0.85	20	99.80	0.20	
0.425	40	97.33	2.67	
0.15	100	69.15	30.85	
0.106	140	32.73	67.27	
0.075	200	9.23	90.77	
0.063	230	5.24	94.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	5.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.009
% Gravel-Sized Shell	> 2.00 mm	0.003
% Sand	0.0625 - 2.00 mm	94.75
% Silt and Clay	< 0.0625 mm	5.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.20
% Medium Sand	0.25 - 0.50 mm	2.46
% Fine Sand	0.0625 - 0.25 mm	92.10

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	32.73	0.106	9.23	0.075	0.076
D30	30	32.73	0.106	9.23	0.075	0.102
D50	50	69.15	0.150	32.73	0.106	0.125
D60	60	69.15	0.150	32.73	0.106	0.137

Uniformity Coefficient (Cu)	1.812
Coefficient of Curvature (Cc)	0.994



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB02B-1

Water Depth (m) 11

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB02C-1
Water Depth (m)	11

Grain Size Data

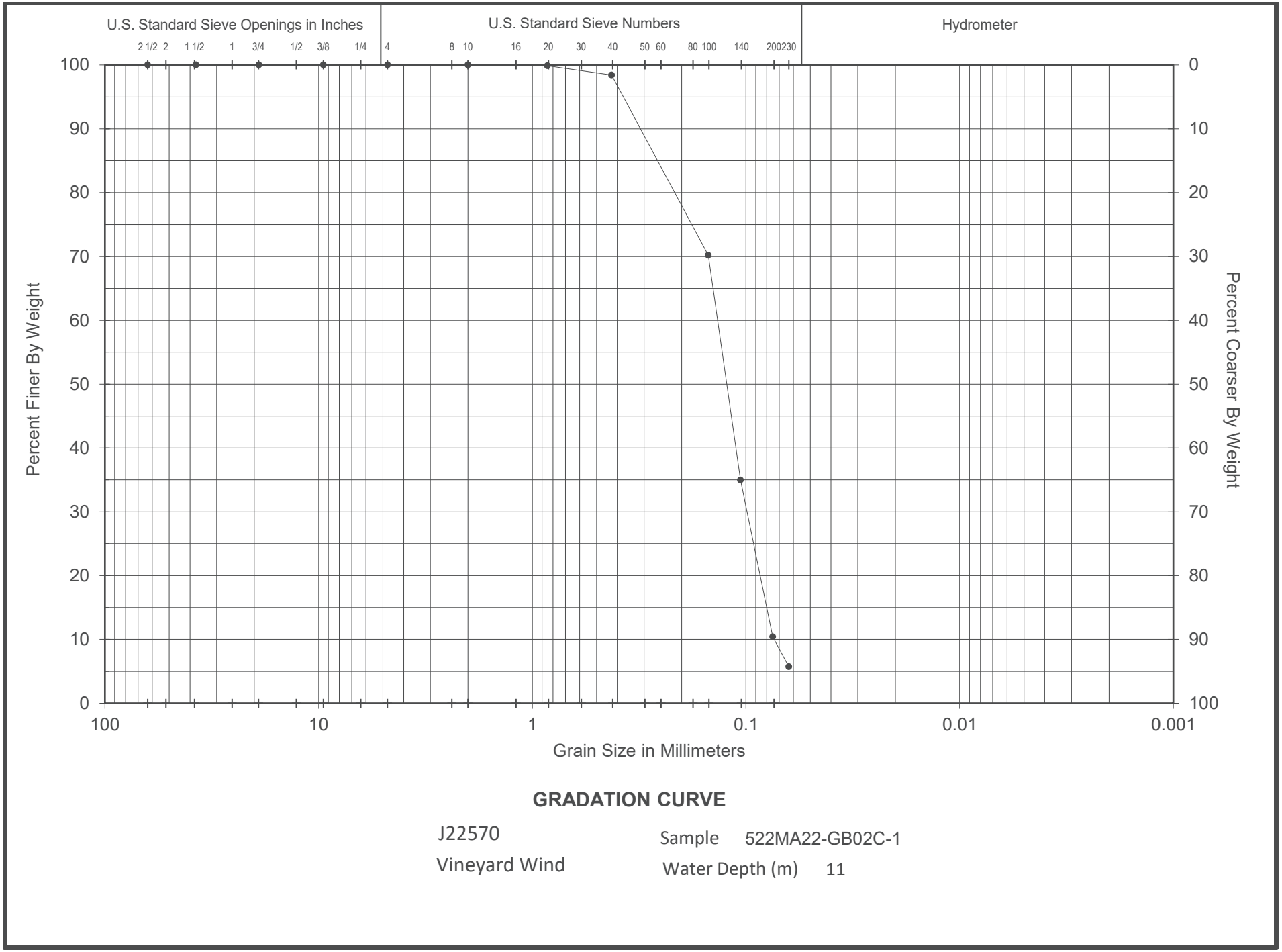
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.89	0.11	
0.425	40	98.42	1.58	
0.15	100	70.20	29.80	
0.106	140	34.98	65.02	
0.075	200	10.39	89.61	
0.063	230	5.72	94.28	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	5.72
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.28
% Silt and Clay	< 0.0625 mm	5.72
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.11
% Medium Sand	0.25 - 0.50 mm	1.47
% Fine Sand	0.0625 - 0.25 mm	92.70

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.39	0.075	5.72	0.063	0.074
D30	30	34.98	0.106	10.39	0.075	0.099
D50	50	70.20	0.150	34.98	0.106	0.123
D60	60	70.20	0.150	34.98	0.106	0.136

Uniformity Coefficient (Cu)	1.835
Coefficient of Curvature (Cc)	0.974



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB02C-1

Water Depth (m) 11

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB03-3
Water Depth (m)	12

Grain Size Data

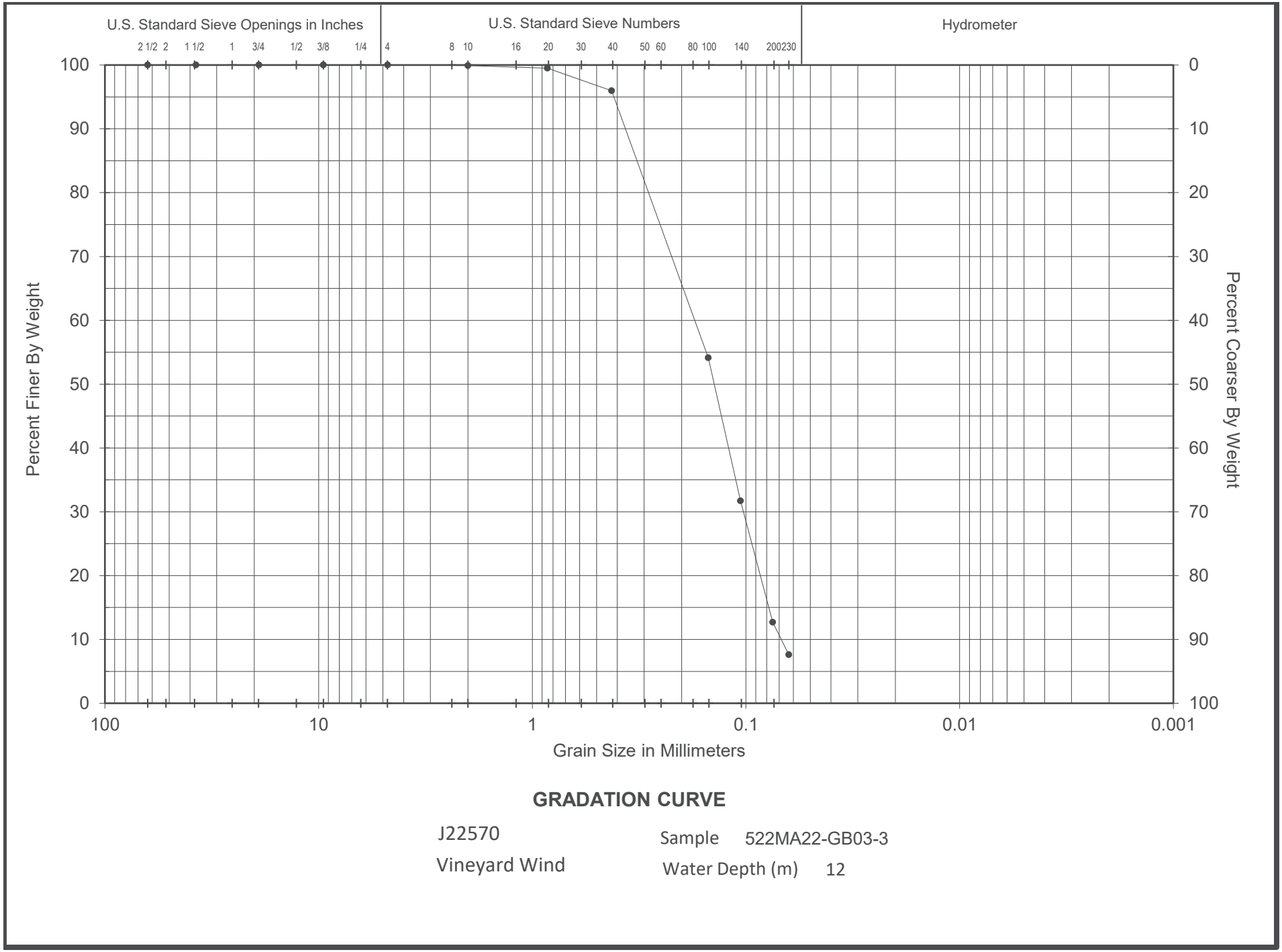
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.92	0.08	89.72
0.85	20	99.51	0.49	
0.425	40	95.96	4.04	
0.15	100	54.13	45.87	
0.106	140	31.71	68.29	
0.075	200	12.70	87.30	
0.063	230	7.60	92.40	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	7.60
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	92.32
% Silt and Clay	< 0.0625 mm	7.60
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.49
% Medium Sand	0.25 - 0.50 mm	3.55
% Fine Sand	0.0625 - 0.25 mm	88.36

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.70	0.075	7.60	0.063	0.068
D30	30	31.71	0.106	12.70	0.075	0.103
D50	50	54.13	0.150	31.71	0.106	0.141
D60	60	95.96	0.425	54.13	0.150	0.174

Uniformity Coefficient (Cu)	2.539
Coefficient of Curvature (Cc)	0.889



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB03-3

Water Depth (m) 12

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB04A-1
Water Depth (m)	13.5

Grain Size Data

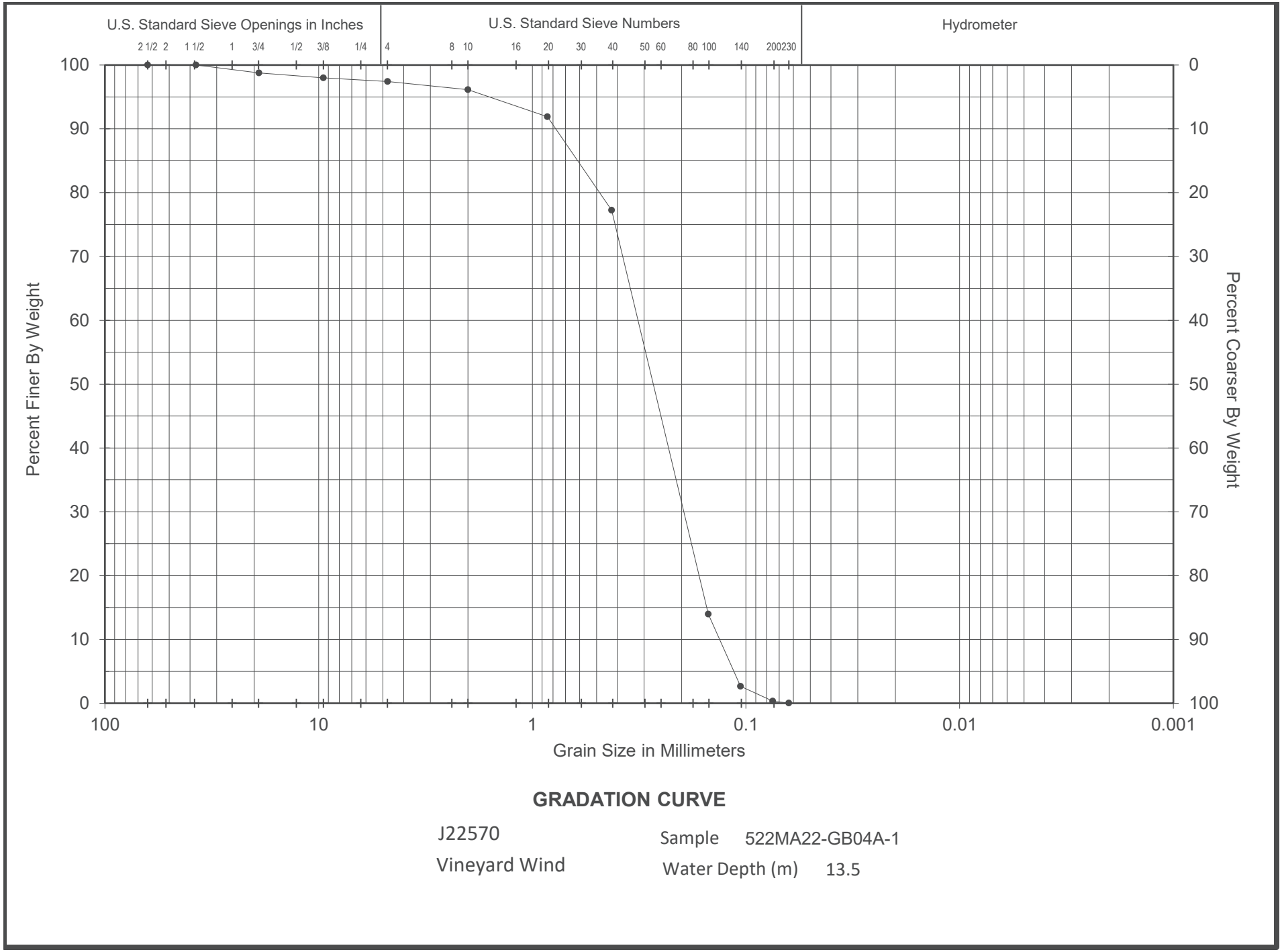
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.77	1.23	
9.5	3/8"	98.00	2.00	
4.75	4	97.41	2.59	
2	10	96.14	3.86	51.75
0.85	20	91.90	8.10	
0.425	40	77.24	22.76	
0.15	100	13.98	86.02	
0.106	140	2.67	97.33	
0.075	200	0.33	99.67	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.14
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.86
% Gravel-Sized Shell	> 2.00 mm	2.00
% Sand	0.0625 - 2.00 mm	96.11
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.51
% Medium Sand	0.25 - 0.50 mm	14.66
% Fine Sand	0.0625 - 0.25 mm	77.21

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.98	0.150	2.67	0.106	0.133
D30	30	77.24	0.425	13.98	0.150	0.195
D50	50	77.24	0.425	13.98	0.150	0.271
D60	60	77.24	0.425	13.98	0.150	0.320

Uniformity Coefficient (Cu)	2.411
Coefficient of Curvature (Cc)	0.898



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB04A-1

Water Depth (m) 13.5

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB04B-1
Water Depth (m)	13.5

Grain Size Data

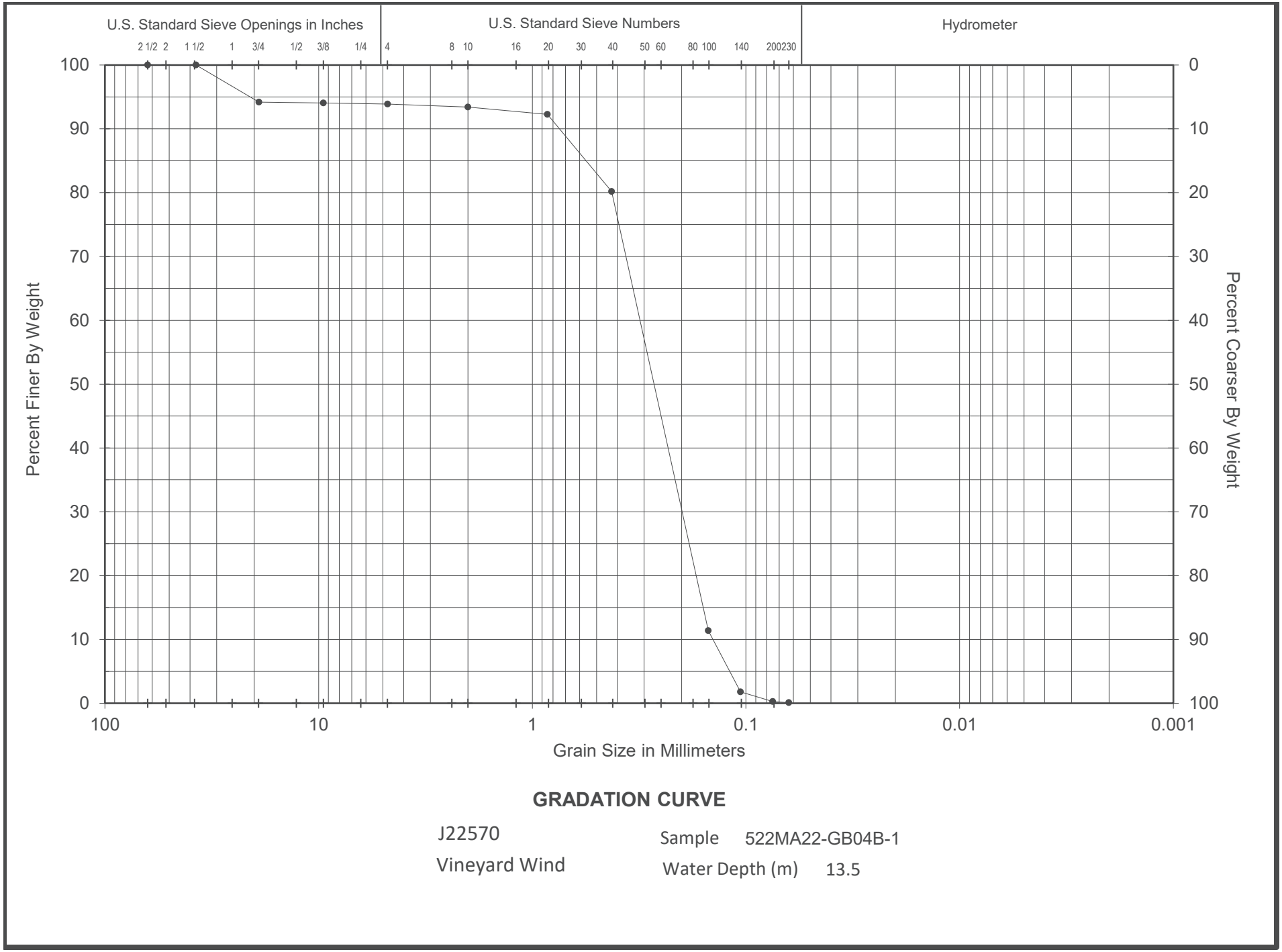
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.17	5.83	
9.5	3/8"	94.04	5.96	
4.75	4	93.89	6.11	
2	10	93.42	6.58	3.87
0.85	20	92.27	7.73	
0.425	40	80.18	19.82	
0.15	100	11.38	88.62	
0.106	140	1.78	98.22	
0.075	200	0.29	99.71	
0.063	230	0.09	99.91	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.42
% Passing #230	0.09
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	6.33
% Gravel-Sized Shell	> 2.00 mm	0.25
% Sand	0.0625 - 2.00 mm	93.33
% Silt and Clay	< 0.0625 mm	0.09
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.62
% Medium Sand	0.25 - 0.50 mm	12.09
% Fine Sand	0.0625 - 0.25 mm	80.09

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.38	0.150	1.78	0.106	0.143
D30	30	80.18	0.425	11.38	0.150	0.199
D50	50	80.18	0.425	11.38	0.150	0.269
D60	60	80.18	0.425	11.38	0.150	0.313

Uniformity Coefficient (Cu)	2.195
Coefficient of Curvature (Cc)	0.885



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB04B-1

Water Depth (m) 13.5

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB04C-1
Water Depth (m)	13.5

Grain Size Data

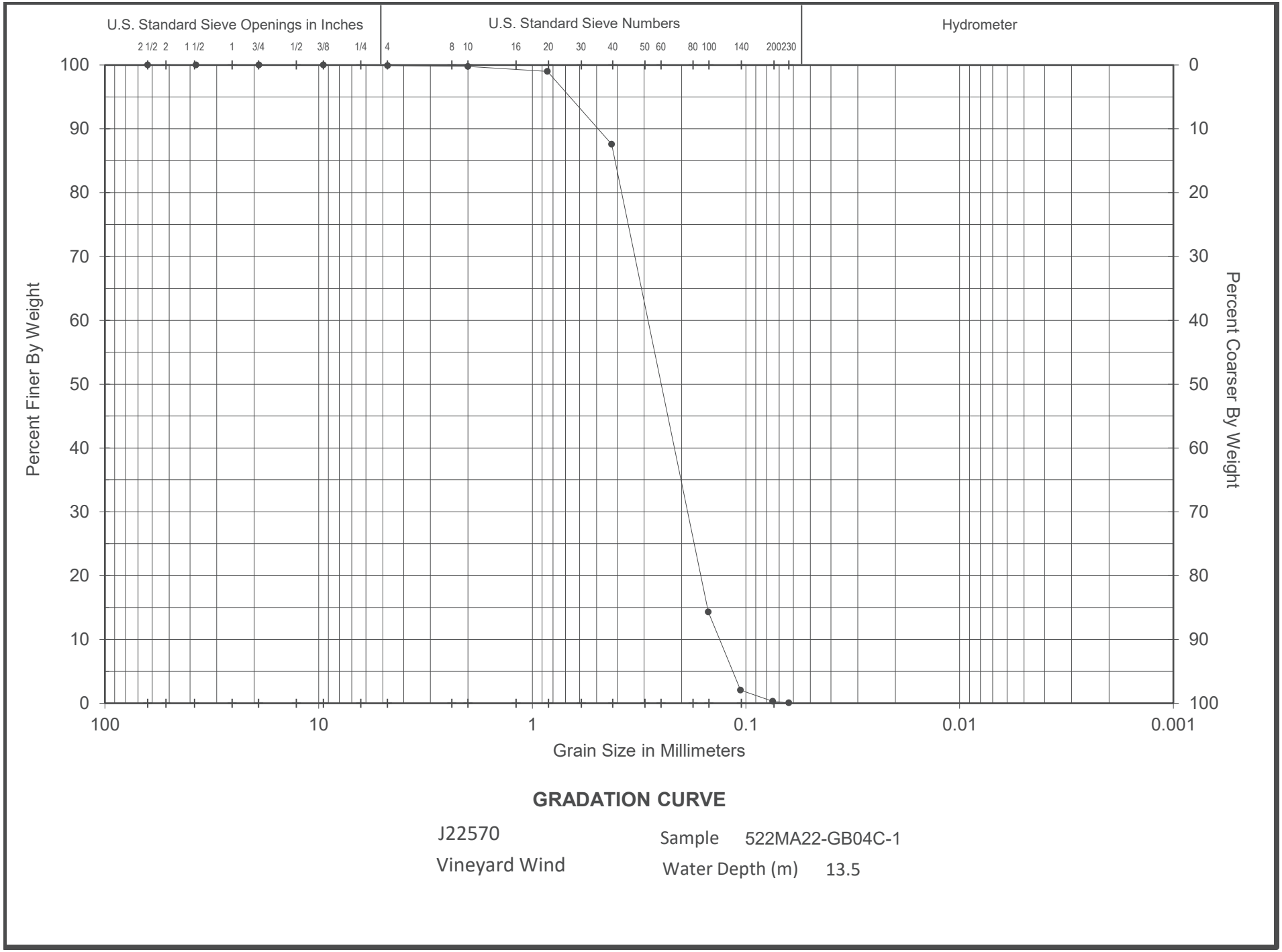
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.89	0.11	
2	10	99.77	0.23	2.83
0.85	20	99.01	0.99	
0.425	40	87.58	12.42	
0.15	100	14.31	85.69	
0.106	140	2.06	97.94	
0.075	200	0.32	99.68	
0.063	230	0.06	99.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.77
% Passing #230	0.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.23
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.71
% Silt and Clay	< 0.0625 mm	0.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.89
% Medium Sand	0.25 - 0.50 mm	11.43
% Fine Sand	0.0625 - 0.25 mm	87.52

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.31	0.150	2.06	0.106	0.133
D30	30	87.58	0.425	14.31	0.150	0.187
D50	50	87.58	0.425	14.31	0.150	0.249
D60	60	87.58	0.425	14.31	0.150	0.287

Uniformity Coefficient (Cu)	2.163
Coefficient of Curvature (Cc)	0.922



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB04C-1

Water Depth (m) 13.5

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB05-2
Water Depth (m)	16.73

Grain Size Data

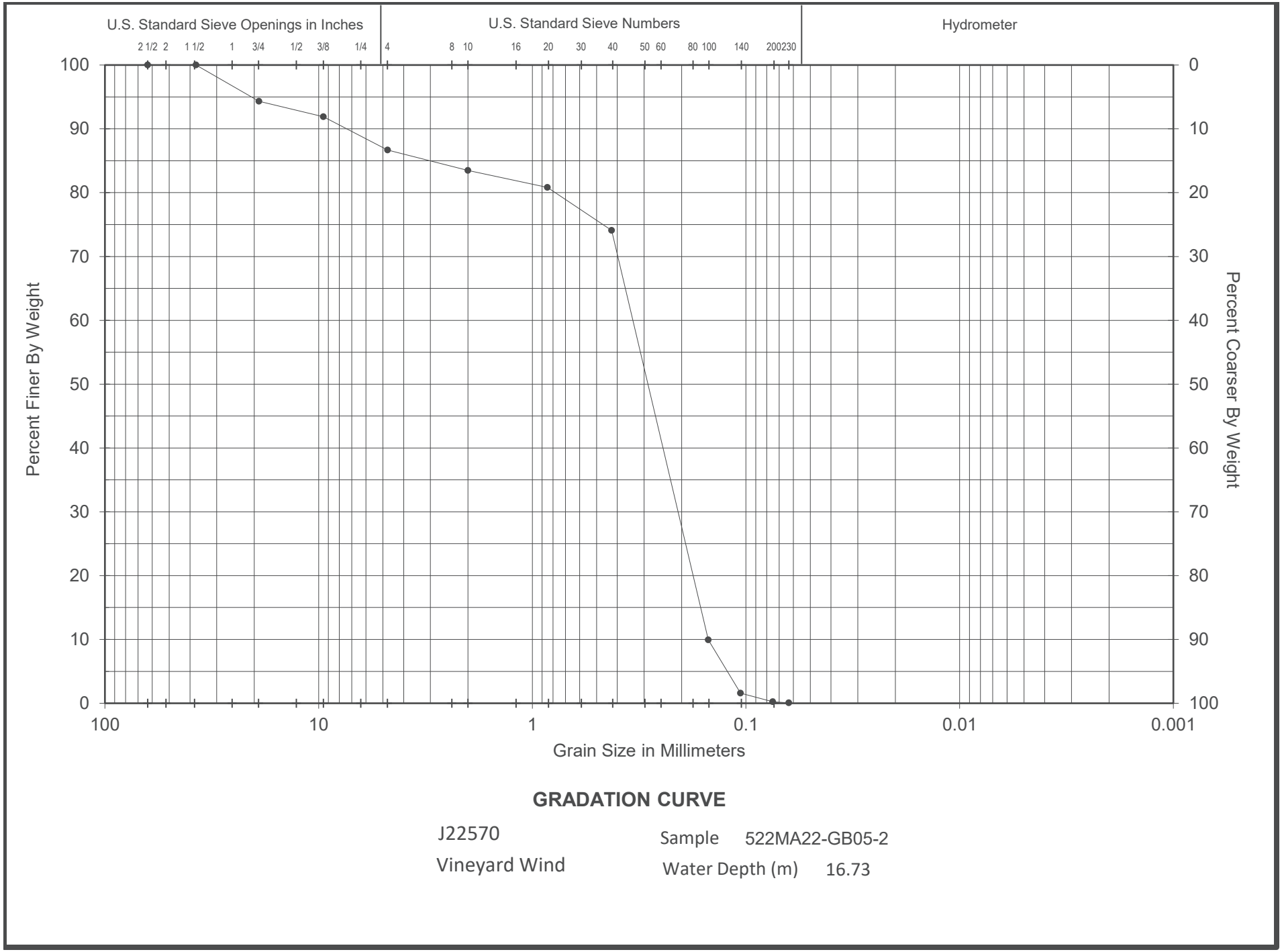
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.34	5.66	
9.5	3/8"	91.91	8.09	
4.75	4	86.68	13.32	
2	10	83.50	16.50	0.89
0.85	20	80.83	19.17	
0.425	40	74.10	25.90	
0.15	100	9.92	90.08	
0.106	140	1.60	98.40	
0.075	200	0.23	99.77	
0.063	230	0.06	99.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	83.50
% Passing #230	0.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	16.35
% Gravel-Sized Shell	> 2.00 mm	0.15
% Sand	0.0625 - 2.00 mm	83.44
% Silt and Clay	< 0.0625 mm	0.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.85
% Medium Sand	0.25 - 0.50 mm	6.73
% Fine Sand	0.0625 - 0.25 mm	74.03

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	74.10	0.425	9.92	0.150	0.150
D30	30	74.10	0.425	9.92	0.150	0.208
D50	50	74.10	0.425	9.92	0.150	0.287
D60	60	74.10	0.425	9.92	0.150	0.338

Uniformity Coefficient (Cu)	2.251
Coefficient of Curvature (Cc)	0.850



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB05-2

Water Depth (m) 16.73

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB06A-1
Water Depth (m)	15.66

Grain Size Data

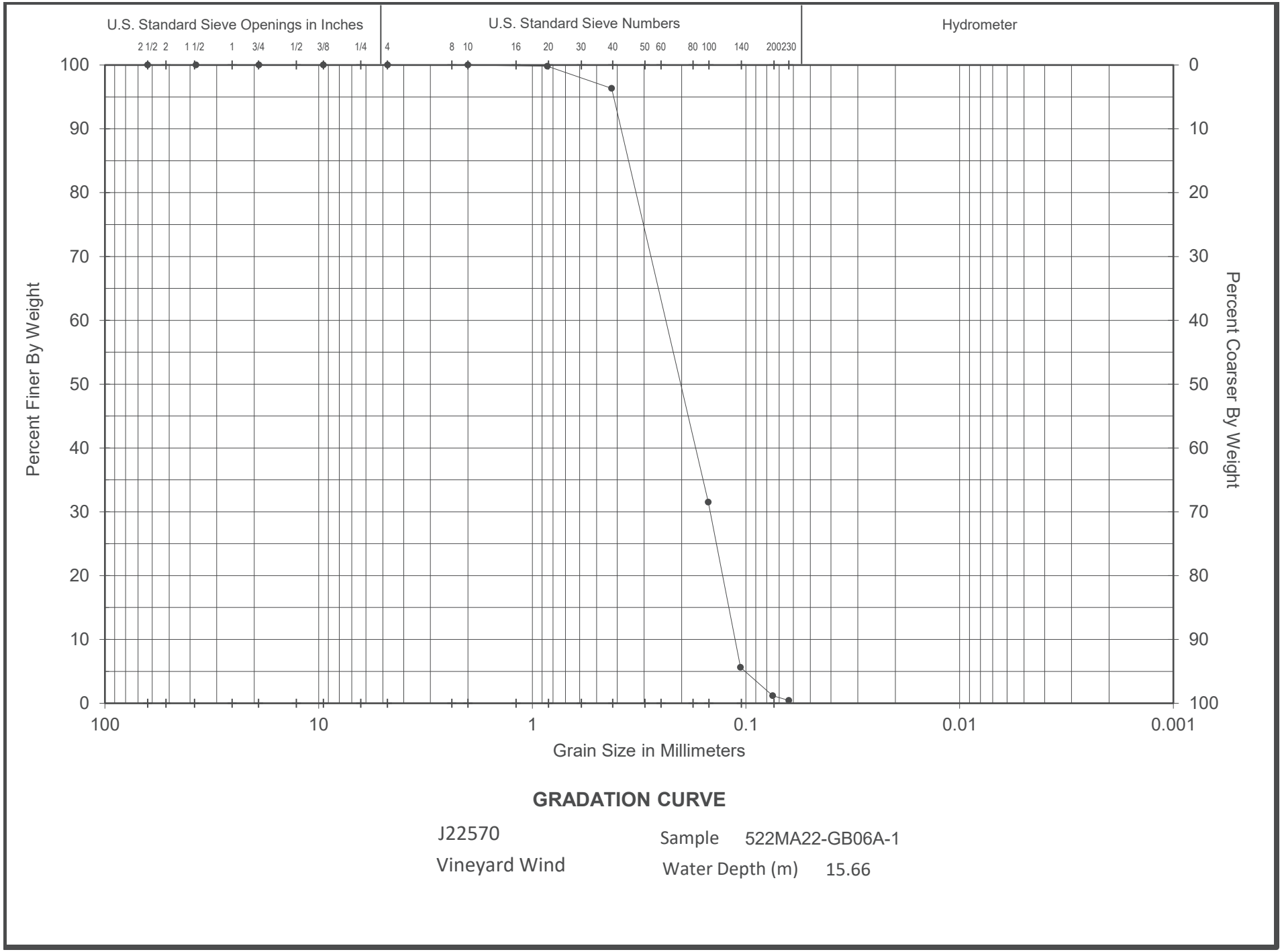
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.81	0.19	
0.425	40	96.35	3.65	
0.15	100	31.50	68.50	
0.106	140	5.61	94.39	
0.075	200	1.18	98.82	
0.063	230	0.44	99.56	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.44
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.56
% Silt and Clay	< 0.0625 mm	0.44
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.19
% Medium Sand	0.25 - 0.50 mm	3.45
% Fine Sand	0.0625 - 0.25 mm	95.91

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger } \%\text{Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller } \%\text{Finer})}$ (mm)	Grain Size (mm)
D10	10	31.50	0.150	5.61	0.106	0.112
D30	30	31.50	0.150	5.61	0.106	0.147
D50	50	96.35	0.425	31.50	0.150	0.202
D60	60	96.35	0.425	31.50	0.150	0.237

Uniformity Coefficient (Cu)	2.108
Coefficient of Curvature (Cc)	0.811



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB06A-1

Water Depth (m) 15.66

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB06B-1
Water Depth (m)	15.76

Grain Size Data

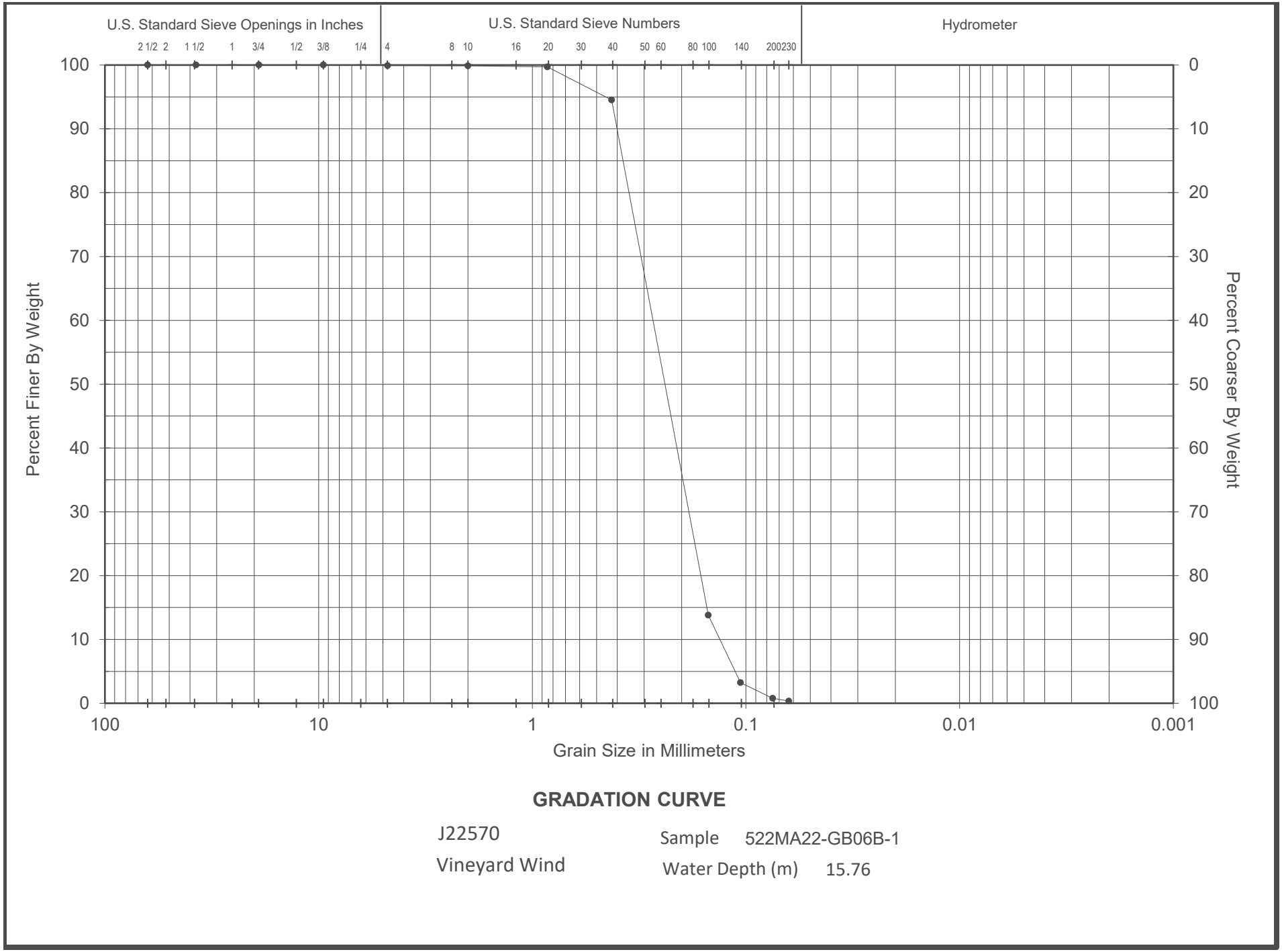
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.91	0.09	
2	10	99.87	0.13	89.83
0.85	20	99.69	0.31	
0.425	40	94.52	5.48	
0.15	100	13.80	86.20	
0.106	140	3.25	96.75	
0.075	200	0.78	99.22	
0.063	230	0.35	99.65	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.87
% Passing #230	0.35
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.12
% Sand	0.0625 - 2.00 mm	99.52
% Silt and Clay	< 0.0625 mm	0.35
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.21
% Medium Sand	0.25 - 0.50 mm	5.17
% Fine Sand	0.0625 - 0.25 mm	94.17

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.80	0.150	3.25	0.106	0.132
D30	30	94.52	0.425	13.80	0.150	0.185
D50	50	94.52	0.425	13.80	0.150	0.239
D60	60	94.52	0.425	13.80	0.150	0.272

Uniformity Coefficient (Cu)	2.057
Coefficient of Curvature (Cc)	0.948



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB06B-1

Water Depth (m) 15.76

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB06C-1
Water Depth (m)	15.85

Grain Size Data

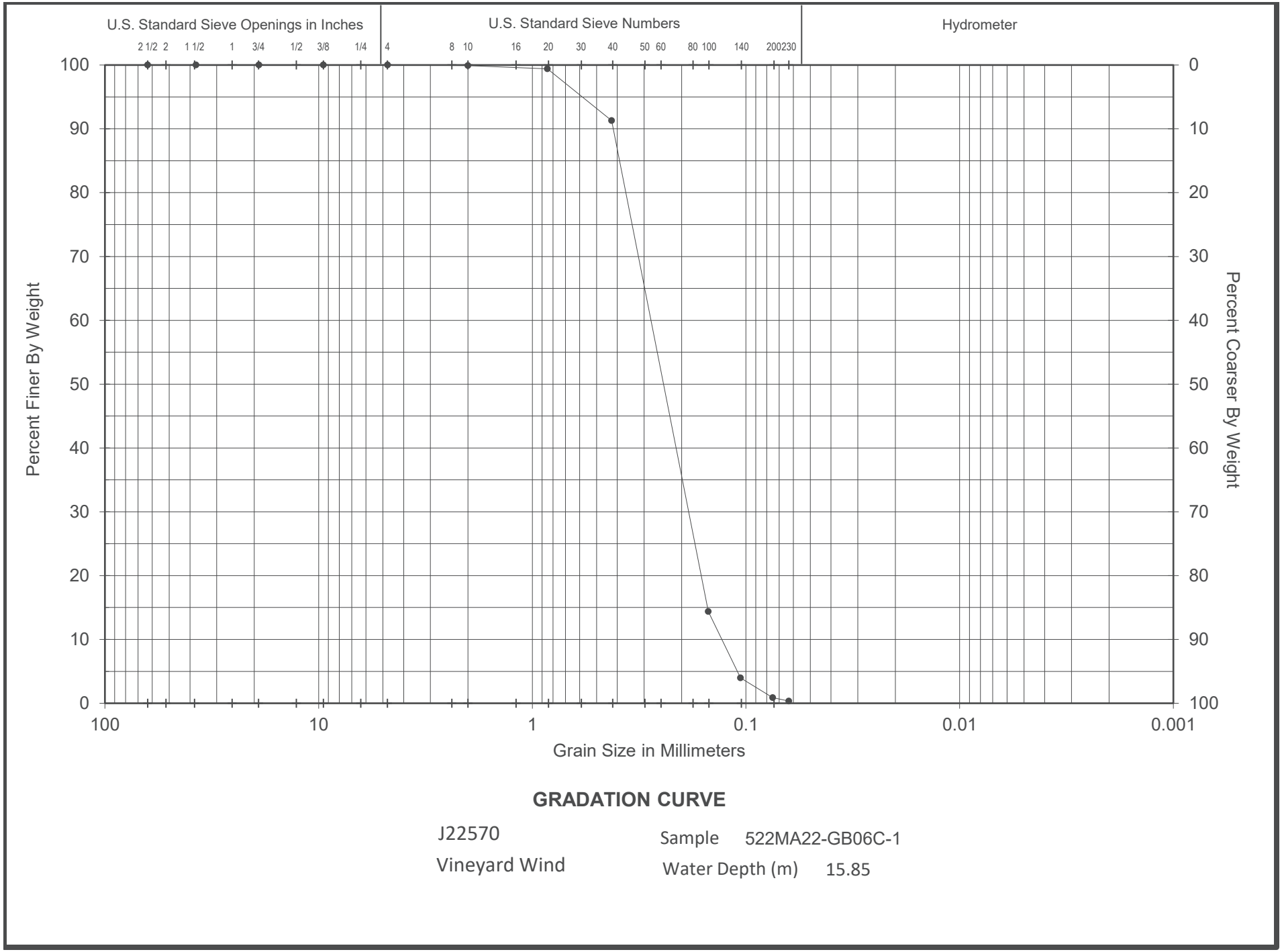
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.92	0.08	0.00
0.85	20	99.42	0.58	
0.425	40	91.28	8.72	
0.15	100	14.39	85.61	
0.106	140	3.98	96.02	
0.075	200	0.87	99.13	
0.063	230	0.35	99.65	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	0.35
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.08
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.58
% Silt and Clay	< 0.0625 mm	0.35
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.58
% Medium Sand	0.25 - 0.50 mm	8.14
% Fine Sand	0.0625 - 0.25 mm	90.94

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.39	0.150	3.98	0.106	0.130
D30	30	91.28	0.425	14.39	0.150	0.185
D50	50	91.28	0.425	14.39	0.150	0.243
D60	60	91.28	0.425	14.39	0.150	0.278

Uniformity Coefficient (Cu)	2.147
Coefficient of Curvature (Cc)	0.953



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB06C-1

Water Depth (m) 15.85

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB07-1
Water Depth (m)	16.72

Grain Size Data

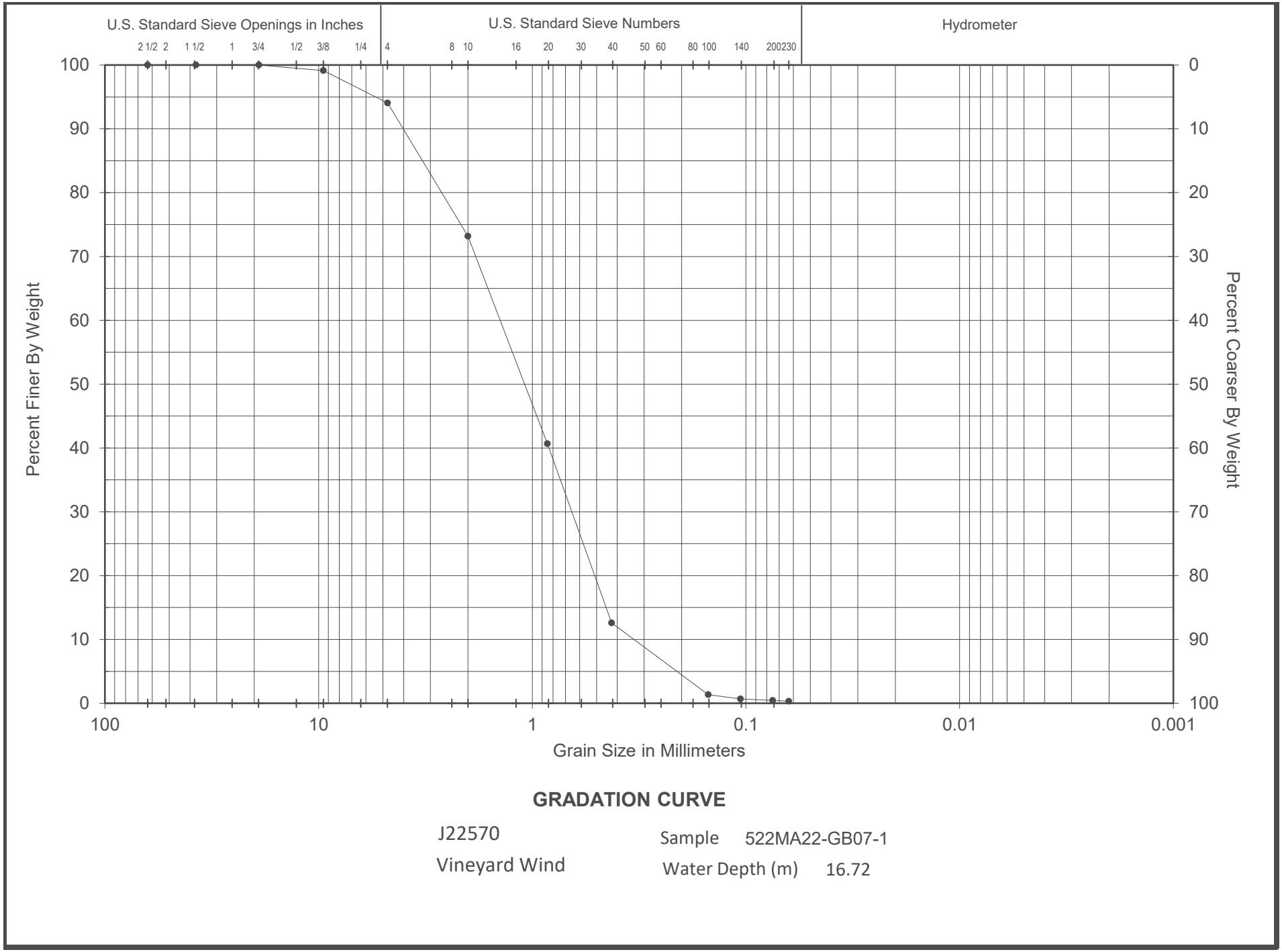
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.13	0.87	
4.75	4	94.04	5.96	
2	10	73.18	26.82	0.47
0.85	20	40.66	59.34	
0.425	40	12.58	87.42	
0.15	100	1.35	98.65	
0.106	140	0.68	99.32	
0.075	200	0.44	99.56	
0.063	230	0.32	99.68	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	73.18
% Passing #230	0.32
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	26.70
% Gravel-Sized Shell	> 2.00 mm	0.12
% Sand	0.0625 - 2.00 mm	72.86
% Silt and Clay	< 0.0625 mm	0.32
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	53.37
% Medium Sand	0.25 - 0.50 mm	28.08
% Fine Sand	0.0625 - 0.25 mm	12.26

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.58	0.425	1.35	0.150	0.334
D30	30	40.66	0.850	12.58	0.425	0.653
D50	50	73.18	2.000	40.66	0.850	1.087
D60	60	73.18	2.000	40.66	0.850	1.414

Uniformity Coefficient (Cu)	4.227
Coefficient of Curvature (Cc)	0.902



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB07-1

Water Depth (m) 16.72

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB08A-1
Water Depth (m)	18.51

Grain Size Data

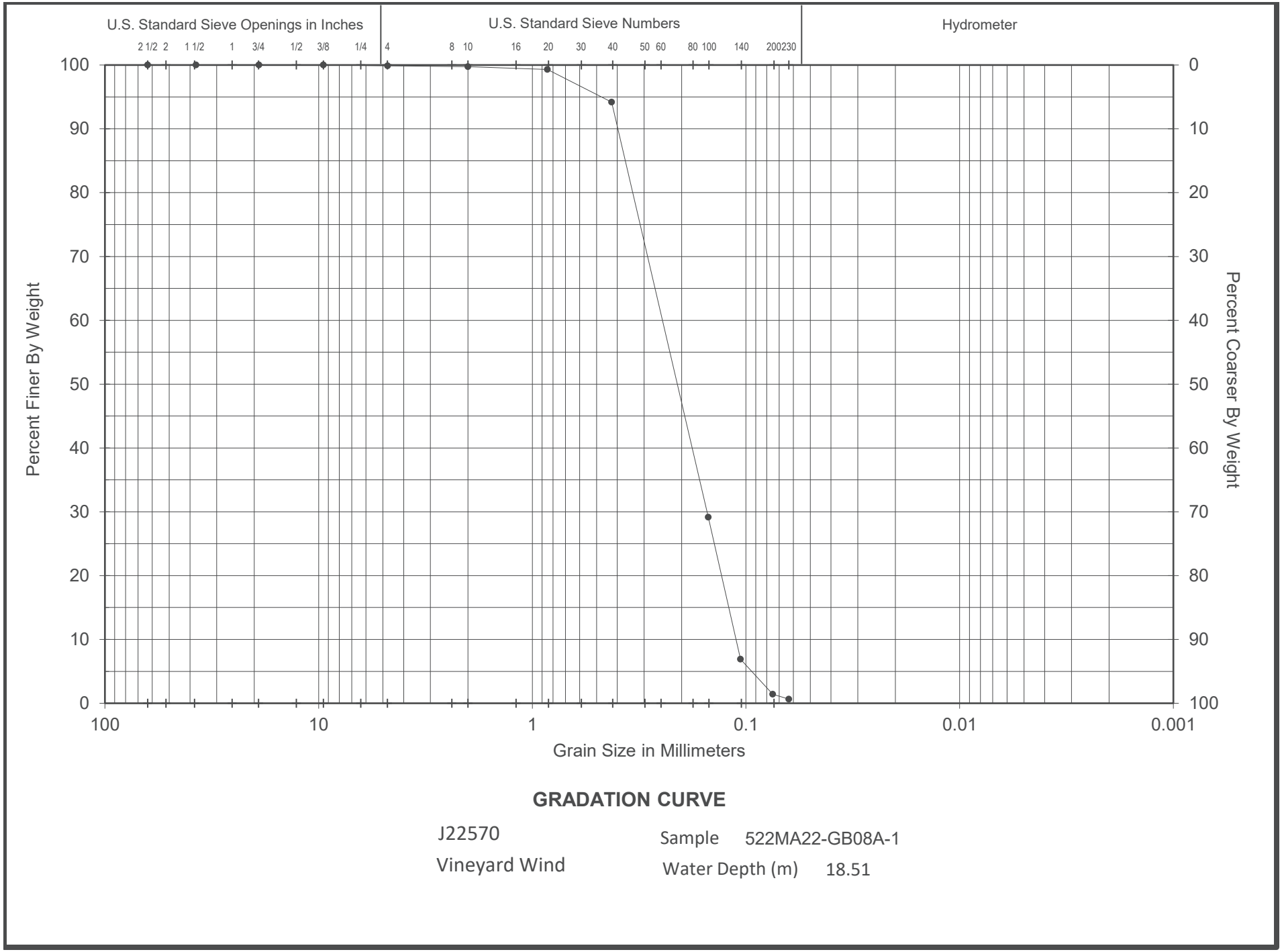
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.88	0.12	
2	10	99.75	0.25	7.55
0.85	20	99.31	0.69	
0.425	40	94.18	5.82	
0.15	100	29.14	70.86	
0.106	140	6.92	93.08	
0.075	200	1.41	98.59	
0.063	230	0.65	99.35	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.75
% Passing #230	0.65
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.23
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	99.11
% Silt and Clay	< 0.0625 mm	0.65
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.56
% Medium Sand	0.25 - 0.50 mm	5.13
% Fine Sand	0.0625 - 0.25 mm	93.53

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	29.14	0.150	6.92	0.106	0.111
D30	30	94.18	0.425	29.14	0.150	0.152
D50	50	94.18	0.425	29.14	0.150	0.209
D60	60	94.18	0.425	29.14	0.150	0.246

Uniformity Coefficient (Cu)	2.210
Coefficient of Curvature (Cc)	0.846



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB08A-1

Water Depth (m) 18.51

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB08B-1
Water Depth (m)	18.41

Grain Size Data

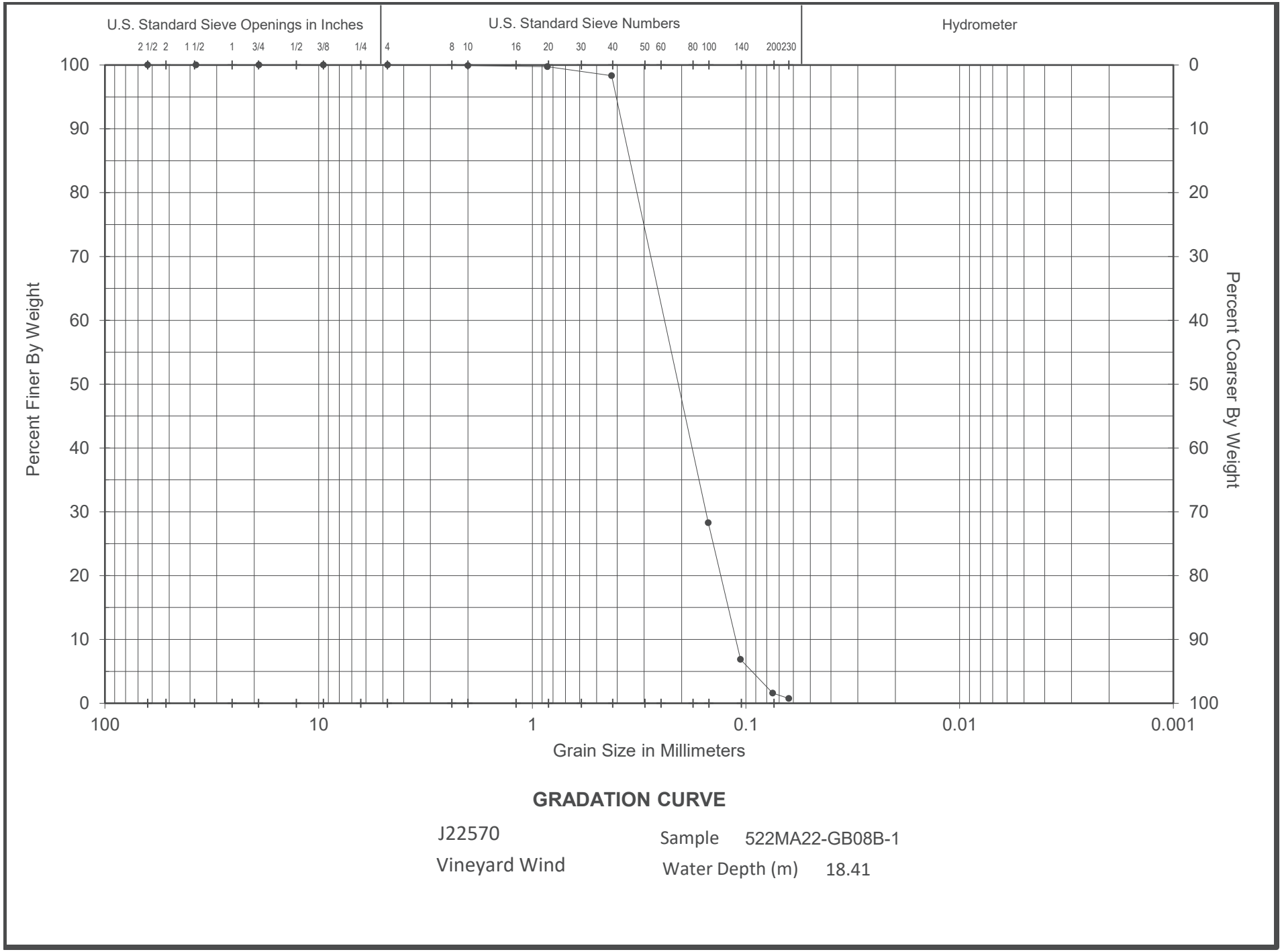
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.91	0.09	17.89
0.85	20	99.74	0.26	
0.425	40	98.33	1.67	
0.15	100	28.29	71.71	
0.106	140	6.86	93.14	
0.075	200	1.59	98.41	
0.063	230	0.75	99.25	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.91
% Passing #230	0.75
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.07
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	99.16
% Silt and Clay	< 0.0625 mm	0.75
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.26
% Medium Sand	0.25 - 0.50 mm	1.41
% Fine Sand	0.0625 - 0.25 mm	97.58

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	28.29	0.150	6.86	0.106	0.112
D30	30	98.33	0.425	28.29	0.150	0.154
D50	50	98.33	0.425	28.29	0.150	0.207
D60	60	98.33	0.425	28.29	0.150	0.240

Uniformity Coefficient (Cu)	2.155
Coefficient of Curvature (Cc)	0.883



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB08B-1

Water Depth (m) 18.41

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB08C-1
Water Depth (m)	18.45

Grain Size Data

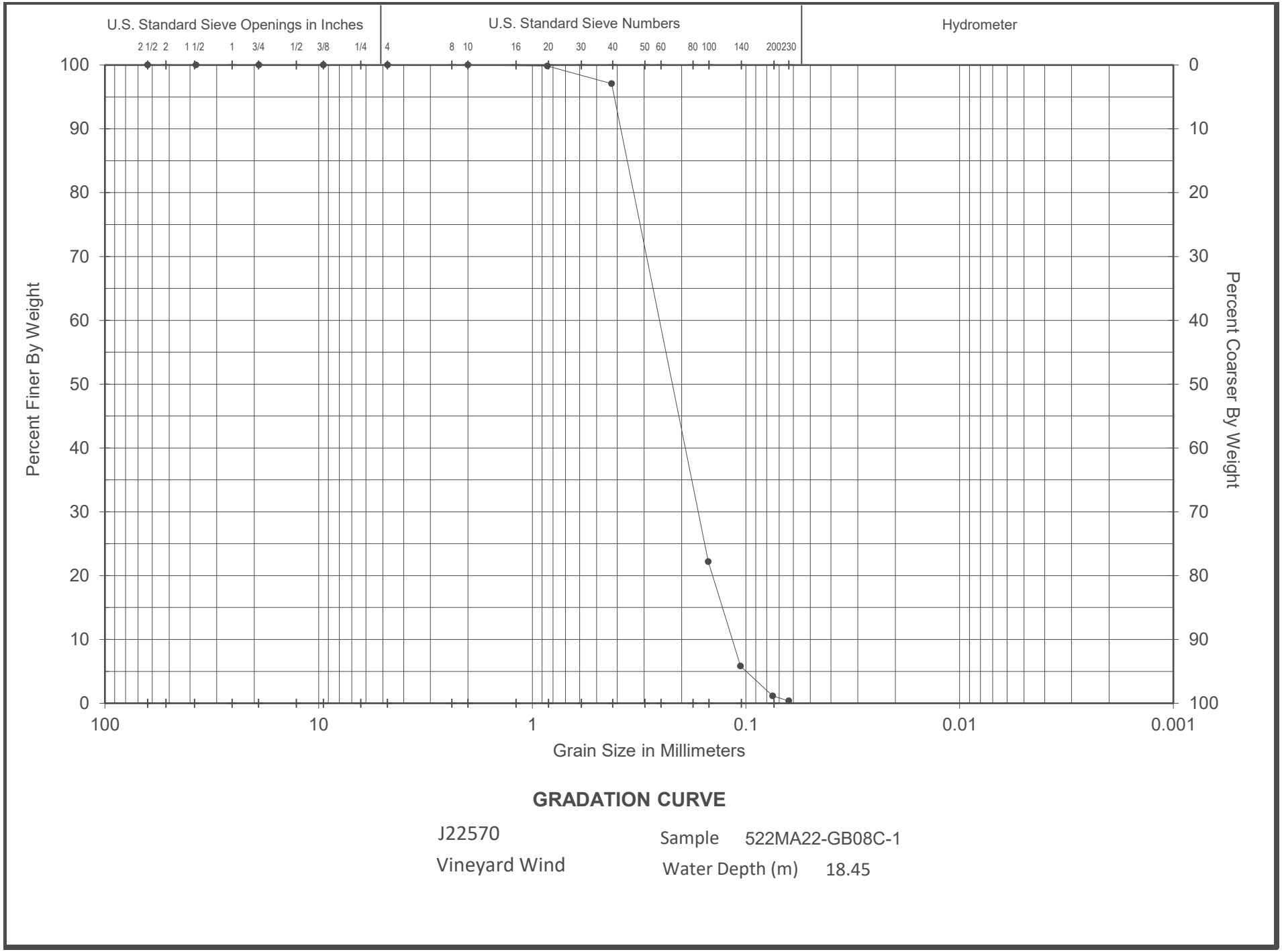
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	100.00
0.85	20	99.83	0.17	
0.425	40	97.09	2.91	
0.15	100	22.19	77.81	
0.106	140	5.83	94.17	
0.075	200	1.14	98.86	
0.063	230	0.37	99.63	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.37
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.62
% Silt and Clay	< 0.0625 mm	0.37
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.17
% Medium Sand	0.25 - 0.50 mm	2.74
% Fine Sand	0.0625 - 0.25 mm	96.72

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.19	0.150	5.83	0.106	0.116
D30	30	97.09	0.425	22.19	0.150	0.167
D50	50	97.09	0.425	22.19	0.150	0.221
D60	60	97.09	0.425	22.19	0.150	0.254

Uniformity Coefficient (Cu)	2.191
Coefficient of Curvature (Cc)	0.951



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB08C-1

Water Depth (m) 18.45

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB09-1
Water Depth (m)	20.52

Grain Size Data

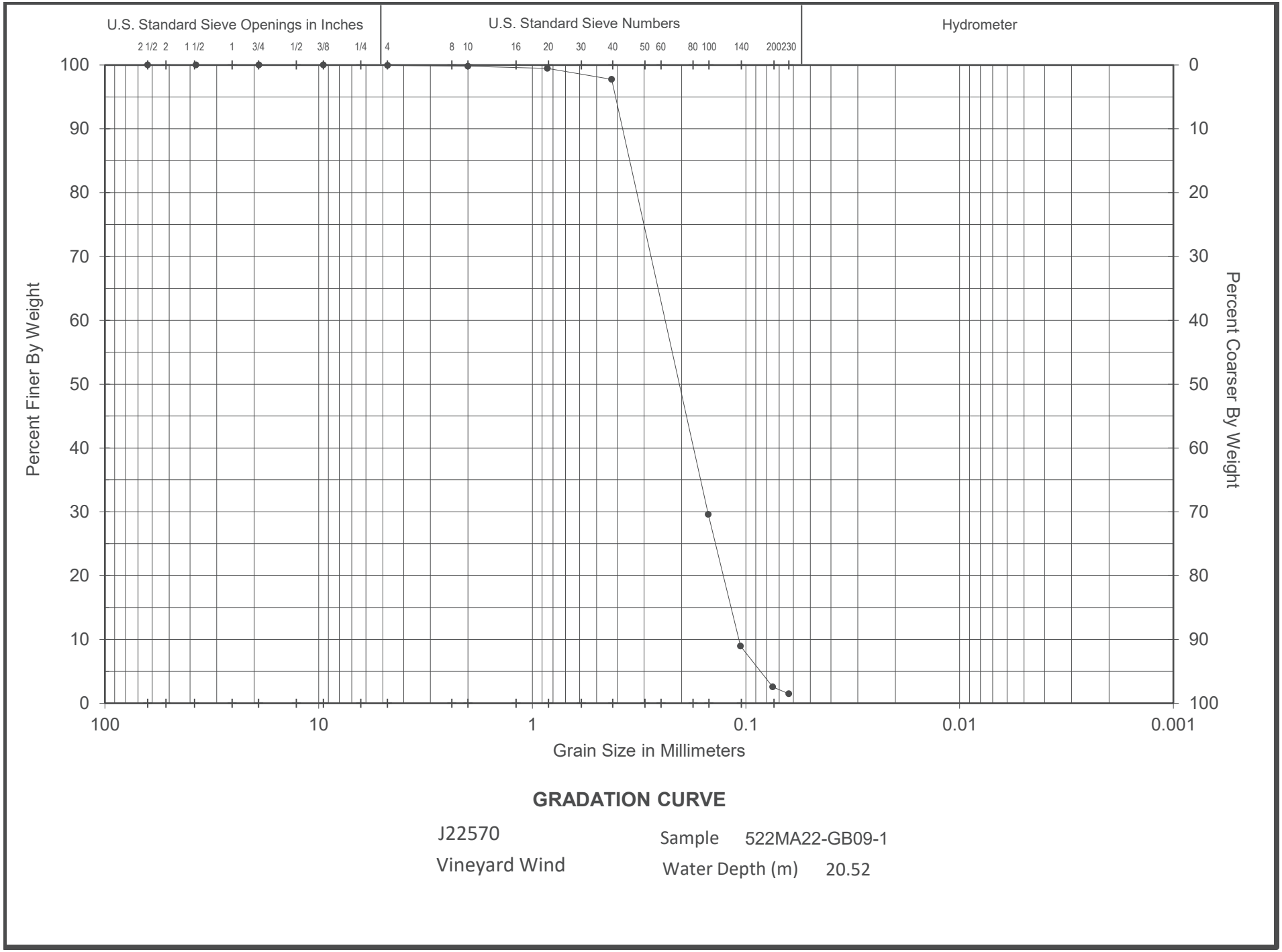
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.94	0.06	
2	10	99.80	0.20	25.23
0.85	20	99.47	0.53	
0.425	40	97.76	2.24	
0.15	100	29.58	70.42	
0.106	140	8.96	91.04	
0.075	200	2.55	97.45	
0.063	230	1.48	98.52	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.80
% Passing #230	1.48
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.15
% Gravel-Sized Shell	> 2.00 mm	0.05
% Sand	0.0625 - 2.00 mm	98.32
% Silt and Clay	< 0.0625 mm	1.48
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.46
% Medium Sand	0.25 - 0.50 mm	1.71
% Fine Sand	0.0625 - 0.25 mm	96.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	29.58	0.150	8.96	0.106	0.108
D30	30	97.76	0.425	29.58	0.150	0.151
D50	50	97.76	0.425	29.58	0.150	0.205
D60	60	97.76	0.425	29.58	0.150	0.239

Uniformity Coefficient (Cu)	2.213
Coefficient of Curvature (Cc)	0.885



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB09-1

Water Depth (m) 20.52

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB10B-1
Water Depth (m)	23

Grain Size Data

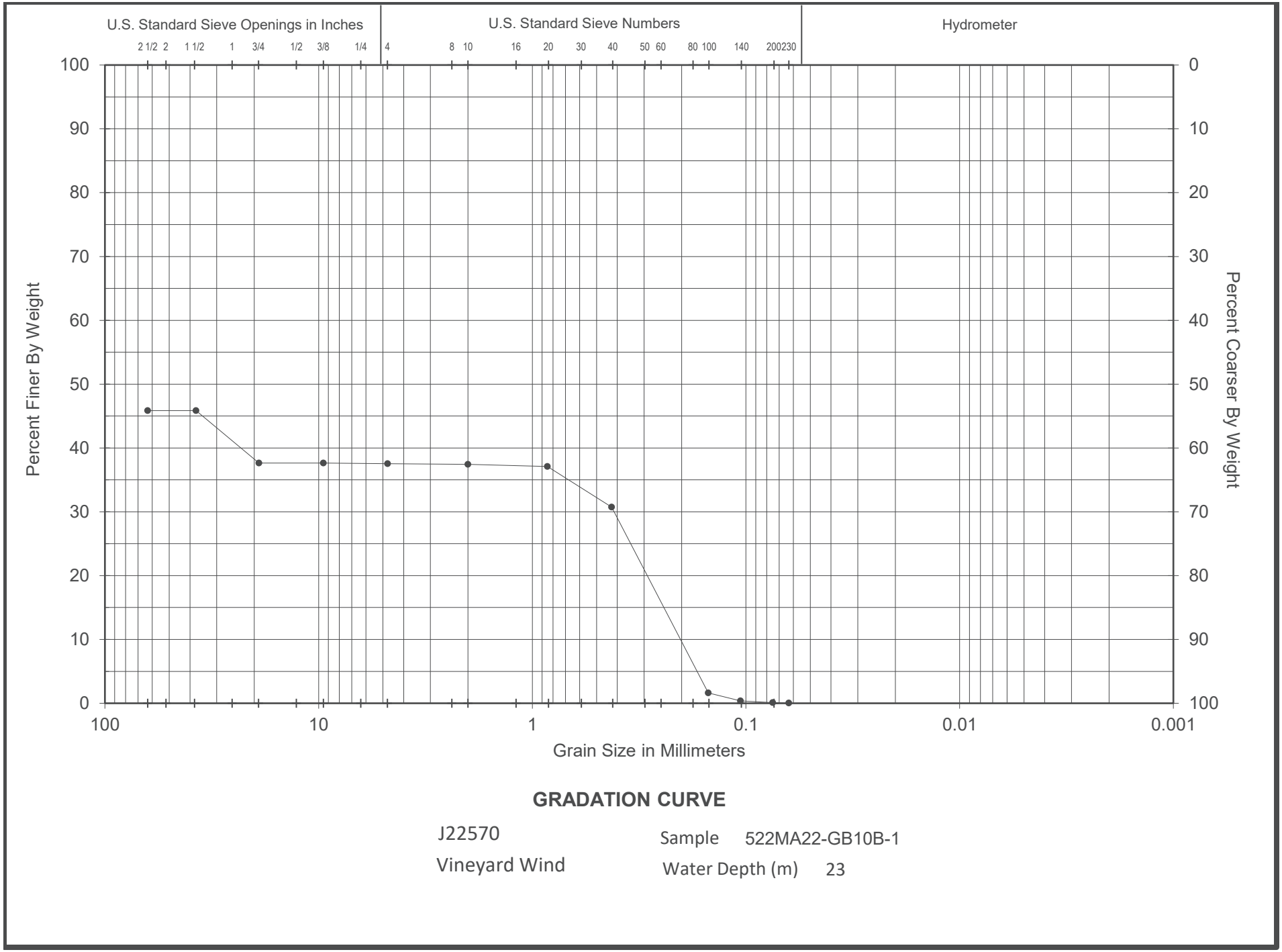
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	45.86	54.14	
37.5	1.5"	45.86	54.14	
19	3/4"	37.63	62.37	
9.5	3/8"	37.63	62.37	
4.75	4	37.52	62.48	
2	10	37.43	62.57	0.06
0.85	20	37.09	62.91	
0.425	40	30.72	69.28	
0.15	100	1.63	98.37	
0.106	140	0.38	99.62	
0.075	200	0.10	99.90	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	37.43
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	62.54
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	37.39
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.43
% Medium Sand	0.25 - 0.50 mm	6.37
% Fine Sand	0.0625 - 0.25 mm	30.69

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)	2nd Next Smaller %Finer	$D_{(\text{2nd Next Smaller \%Finer})}$ (mm)
D10	10	30.72	0.425	1.63	0.150	0.202		
D30	30	30.72	0.425	1.63	0.150	0.414		
D50	50	#VALUE!	0.000	45.86	63.000	#NUM!	37.635	19.000
D60	60	#VALUE!	0.000	45.86	63.000	#NUM!	37.635	19.000

Uniformity Coefficient (Cu)	#NUM!
Coefficient of Curvature (Cc)	#NUM!



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB10B-1

Water Depth (m) 23

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB11-1
Water Depth (m)	20.2

Grain Size Data

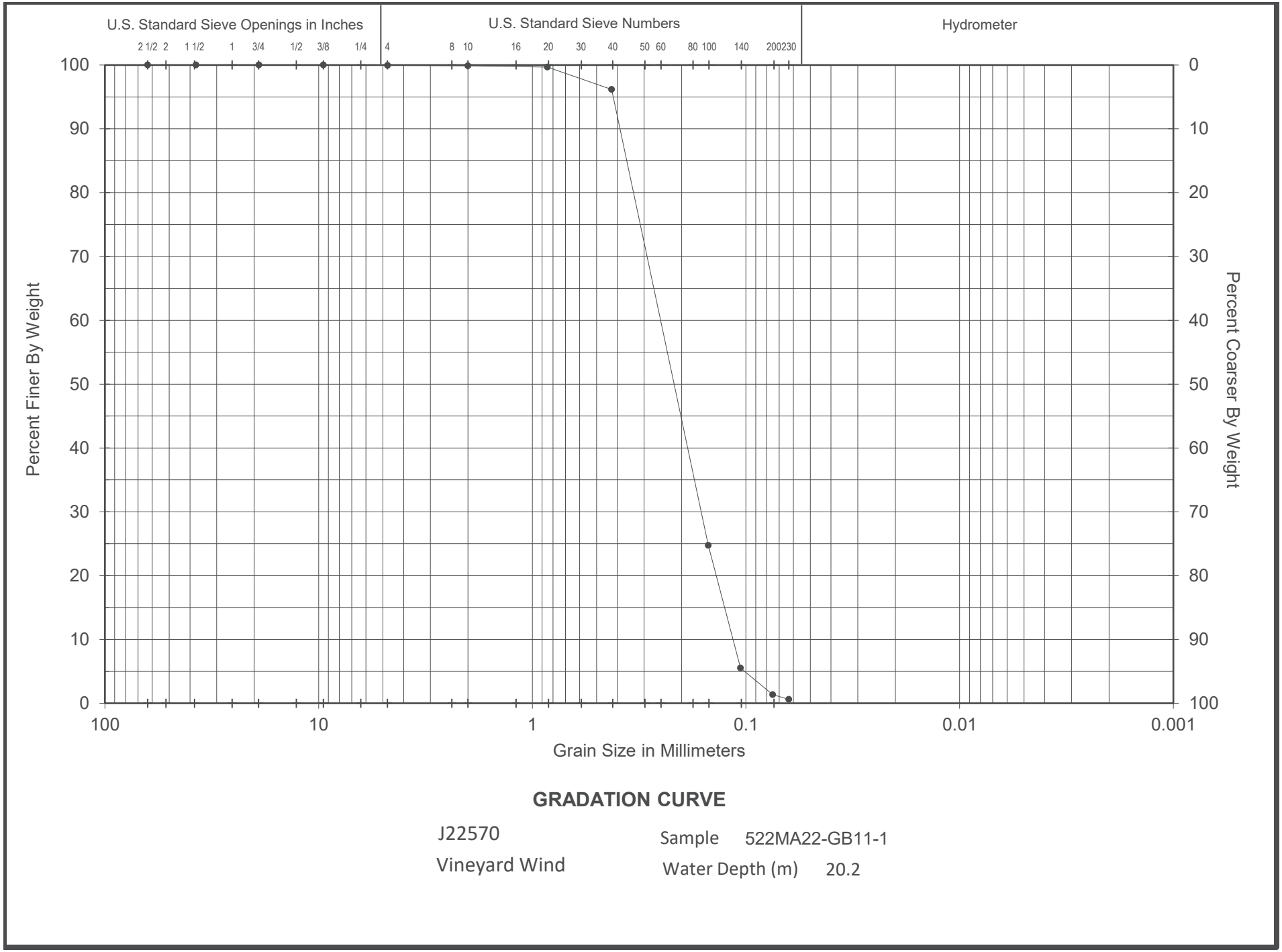
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.94	0.06	
2	10	99.88	0.12	0.00
0.85	20	99.66	0.34	
0.425	40	96.18	3.82	
0.15	100	24.74	75.26	
0.106	140	5.52	94.48	
0.075	200	1.34	98.66	
0.063	230	0.62	99.38	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.88
% Passing #230	0.62
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.12
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.26
% Silt and Clay	< 0.0625 mm	0.62
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.28
% Medium Sand	0.25 - 0.50 mm	3.48
% Fine Sand	0.0625 - 0.25 mm	95.56

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.74	0.150	5.52	0.106	0.115
D30	30	96.18	0.425	24.74	0.150	0.162
D50	50	96.18	0.425	24.74	0.150	0.217
D60	60	96.18	0.425	24.74	0.150	0.251

Uniformity Coefficient (Cu)	2.182
Coefficient of Curvature (Cc)	0.910



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB11-1

Water Depth (m) 20.2

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB12A-1
Water Depth (m)	21.6

Grain Size Data

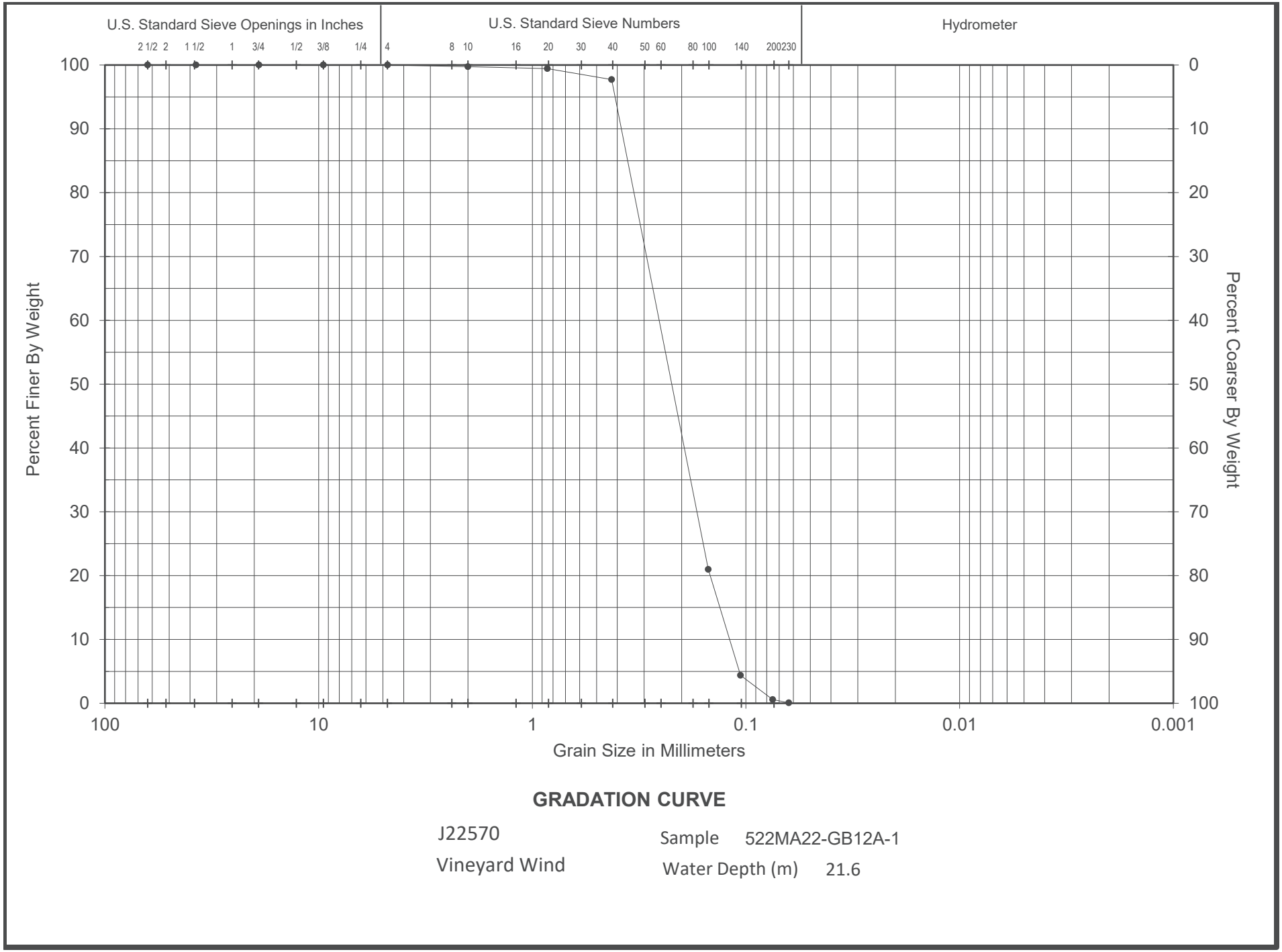
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.75	0.25	32.08
0.85	20	99.43	0.57	
0.425	40	97.74	2.26	
0.15	100	20.96	79.04	
0.106	140	4.39	95.61	
0.075	200	0.57	99.43	
0.063	230	0.08	99.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.75
% Passing #230	0.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.17
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	99.67
% Silt and Clay	< 0.0625 mm	0.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.57
% Medium Sand	0.25 - 0.50 mm	1.69
% Fine Sand	0.0625 - 0.25 mm	97.66

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.96	0.150	4.39	0.106	0.119
D30	30	97.74	0.425	20.96	0.150	0.170
D50	50	97.74	0.425	20.96	0.150	0.222
D60	60	97.74	0.425	20.96	0.150	0.255

Uniformity Coefficient (Cu)	2.137
Coefficient of Curvature (Cc)	0.947



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB12A-1

Water Depth (m) 21.6

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB12B-1
Water Depth (m)	21.6

Grain Size Data

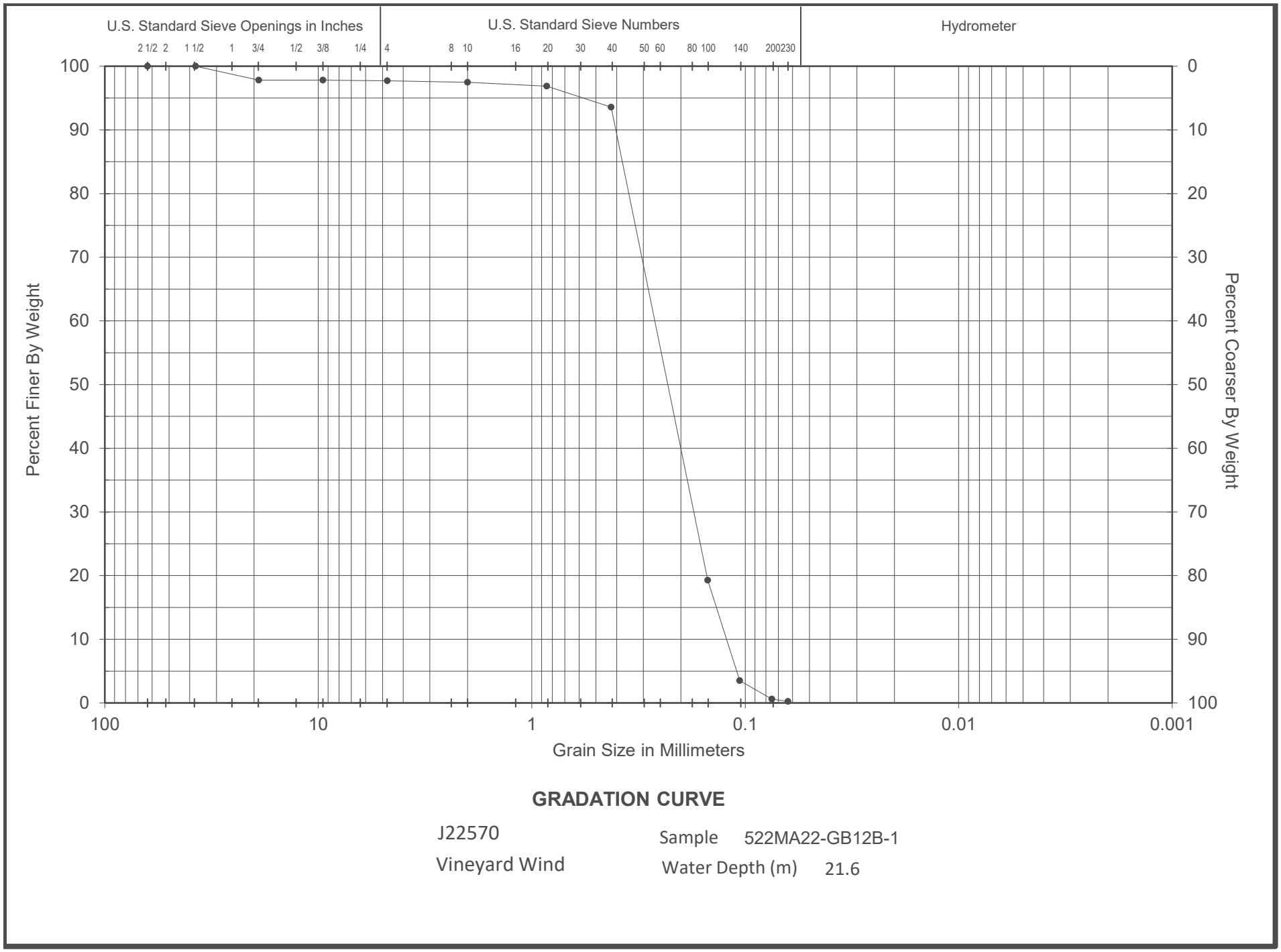
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.81	2.19	
9.5	3/8"	97.81	2.19	
4.75	4	97.71	2.29	
2	10	97.47	2.53	5.14
0.85	20	96.86	3.14	
0.425	40	93.57	6.43	
0.15	100	19.27	80.73	
0.106	140	3.49	96.51	
0.075	200	0.59	99.41	
0.063	230	0.24	99.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.47
% Passing #230	0.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.40
% Gravel-Sized Shell	> 2.00 mm	0.13
% Sand	0.0625 - 2.00 mm	97.23
% Silt and Clay	< 0.0625 mm	0.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.84
% Medium Sand	0.25 - 0.50 mm	3.29
% Fine Sand	0.0625 - 0.25 mm	93.33

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.27	0.150	3.49	0.106	0.122
D30	30	93.57	0.425	19.27	0.150	0.174
D50	50	93.57	0.425	19.27	0.150	0.231
D60	60	93.57	0.425	19.27	0.150	0.265

Uniformity Coefficient (Cu)	2.170
Coefficient of Curvature (Cc)	0.936



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB12B-1

Water Depth (m) 21.6

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB12C-1
Water Depth (m)	21.7

Grain Size Data

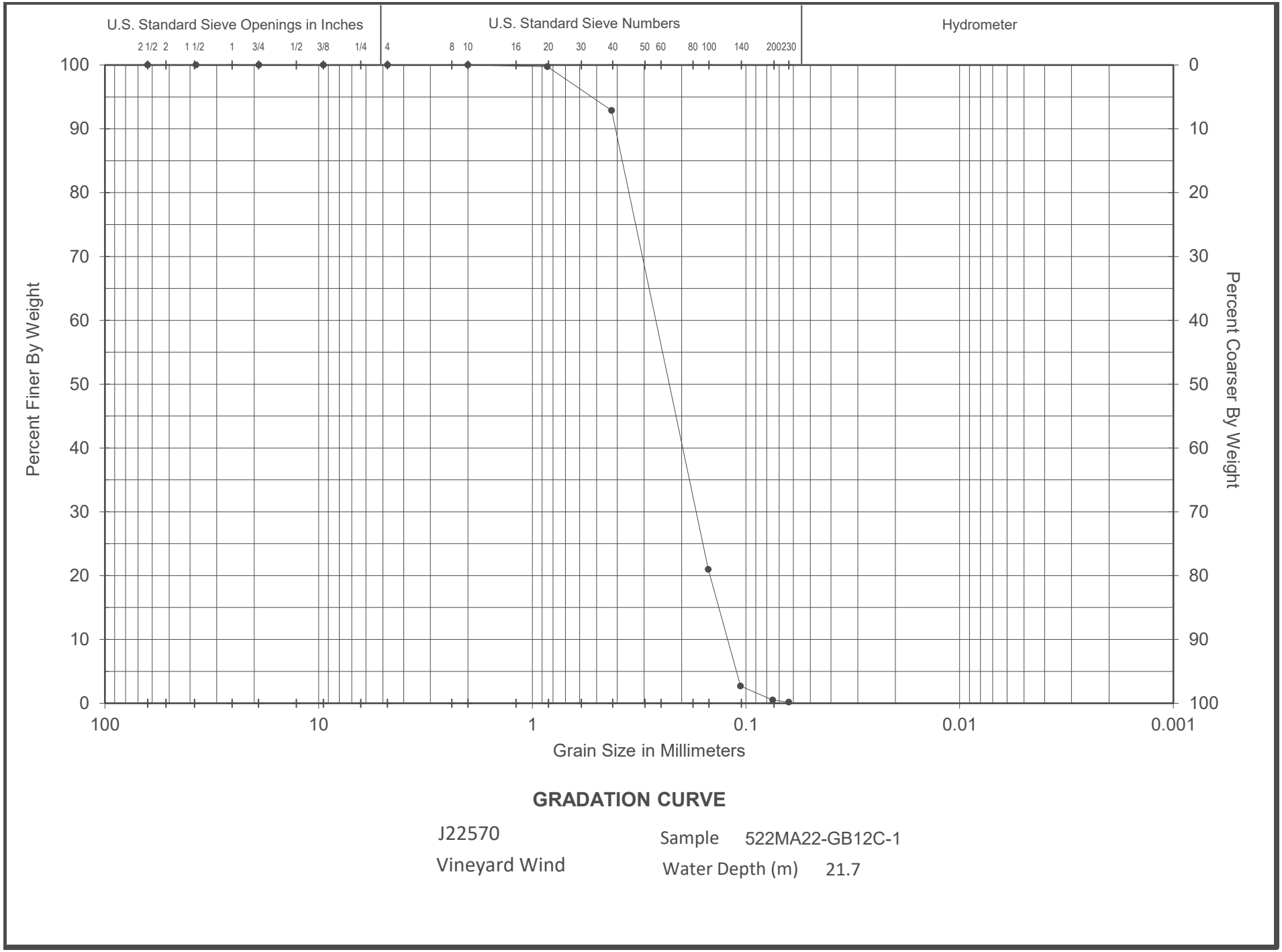
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.75	0.25	
0.425	40	92.86	7.14	
0.15	100	20.96	79.04	
0.106	140	2.70	97.30	
0.075	200	0.50	99.50	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.83
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.25
% Medium Sand	0.25 - 0.50 mm	6.89
% Fine Sand	0.0625 - 0.25 mm	92.69

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.96	0.150	2.70	0.106	0.122
D30	30	92.86	0.425	20.96	0.150	0.171
D50	50	92.86	0.425	20.96	0.150	0.228
D60	60	92.86	0.425	20.96	0.150	0.264

Uniformity Coefficient (Cu)	2.168
Coefficient of Curvature (Cc)	0.909



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB12C-1

Water Depth (m) 21.7

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB13-1
Water Depth (m)	25

Grain Size Data

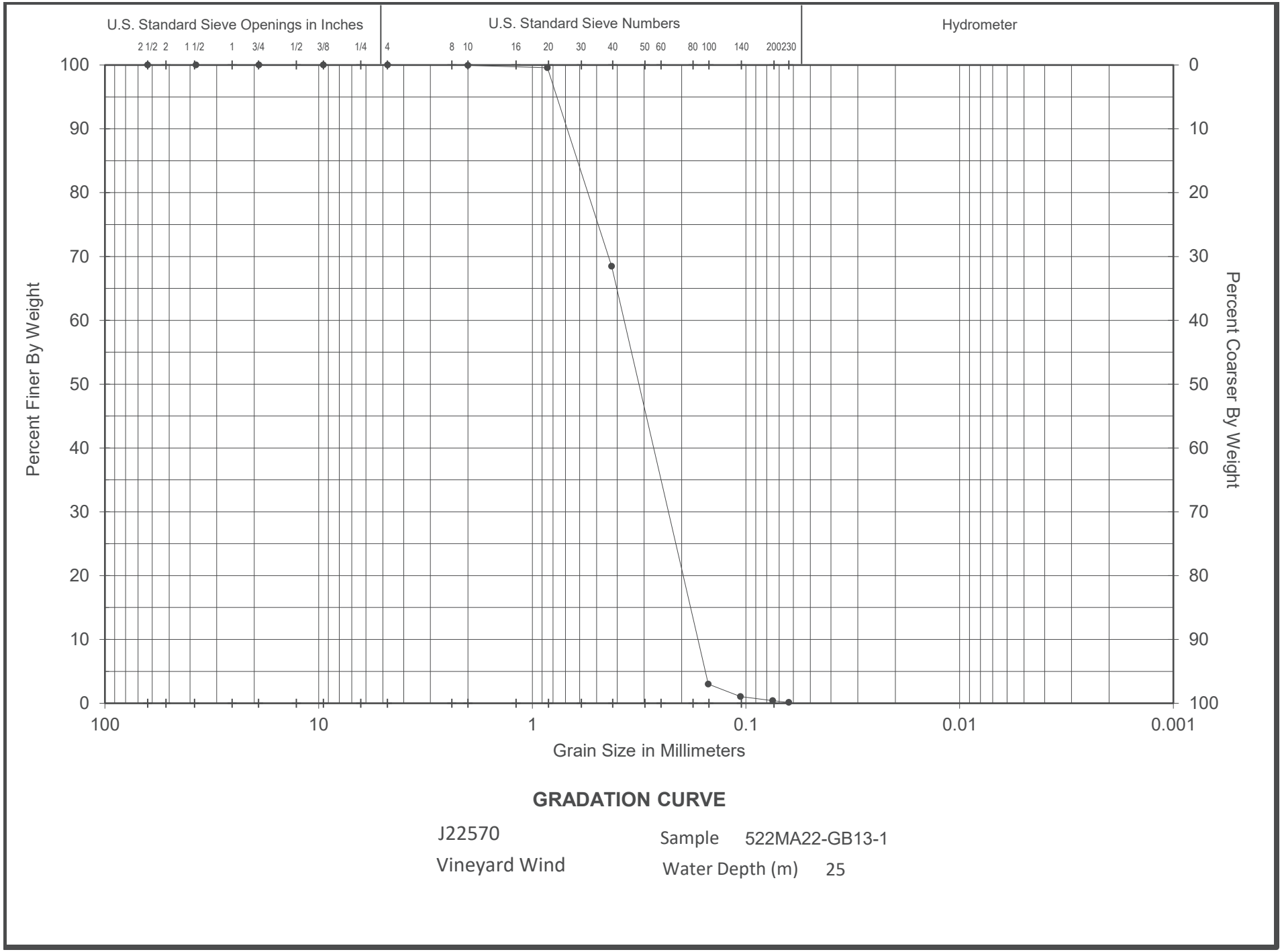
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.95	0.05	73.68
0.85	20	99.57	0.43	
0.425	40	68.48	31.52	
0.15	100	2.99	97.01	
0.106	140	1.05	98.95	
0.075	200	0.39	99.61	
0.063	230	0.13	99.87	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.95
% Passing #230	0.13
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	99.82
% Silt and Clay	< 0.0625 mm	0.13
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.43
% Medium Sand	0.25 - 0.50 mm	31.08
% Fine Sand	0.0625 - 0.25 mm	68.35

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	68.48	0.425	2.99	0.150	0.168
D30	30	68.48	0.425	2.99	0.150	0.230
D50	50	68.48	0.425	2.99	0.150	0.317
D60	60	68.48	0.425	2.99	0.150	0.371

Uniformity Coefficient (Cu)	2.215
Coefficient of Curvature (Cc)	0.853



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB13-1

Water Depth (m) 25

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB14A-1
Water Depth (m)	22.9

Grain Size Data

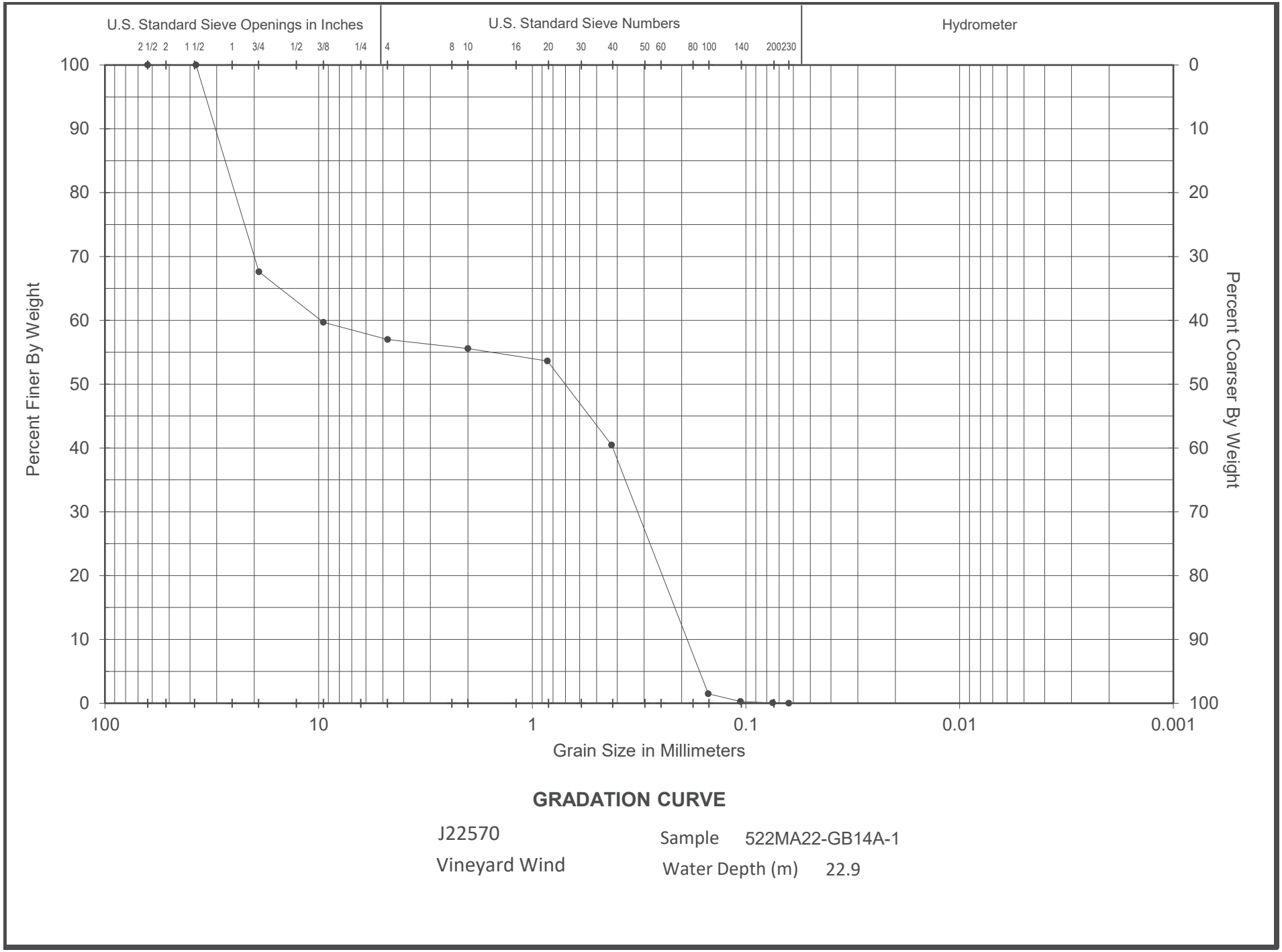
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	67.60	32.40	
9.5	3/8"	59.68	40.32	
4.75	4	57.00	43.00	
2	10	55.57	44.43	3.74
0.85	20	53.63	46.37	
0.425	40	40.45	59.55	
0.15	100	1.48	98.52	
0.106	140	0.27	99.73	
0.075	200	0.07	99.93	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	55.57
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	42.77
% Gravel-Sized Shell	> 2.00 mm	1.66
% Sand	0.0625 - 2.00 mm	55.56
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.37
% Medium Sand	0.25 - 0.50 mm	13.17
% Fine Sand	0.0625 - 0.25 mm	40.45

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	40.45	0.425	1.48	0.150	0.188
D30	30	40.45	0.425	1.48	0.150	0.321
D50	50	53.63	0.850	40.45	0.425	0.702
D60	60	67.60	19.000	59.68	9.500	9.771

Uniformity Coefficient (Cu)	51.876
Coefficient of Curvature (Cc)	0.056



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB14A-1

Water Depth (m) 22.9

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB14B-1
Water Depth (m)	22.8

Grain Size Data

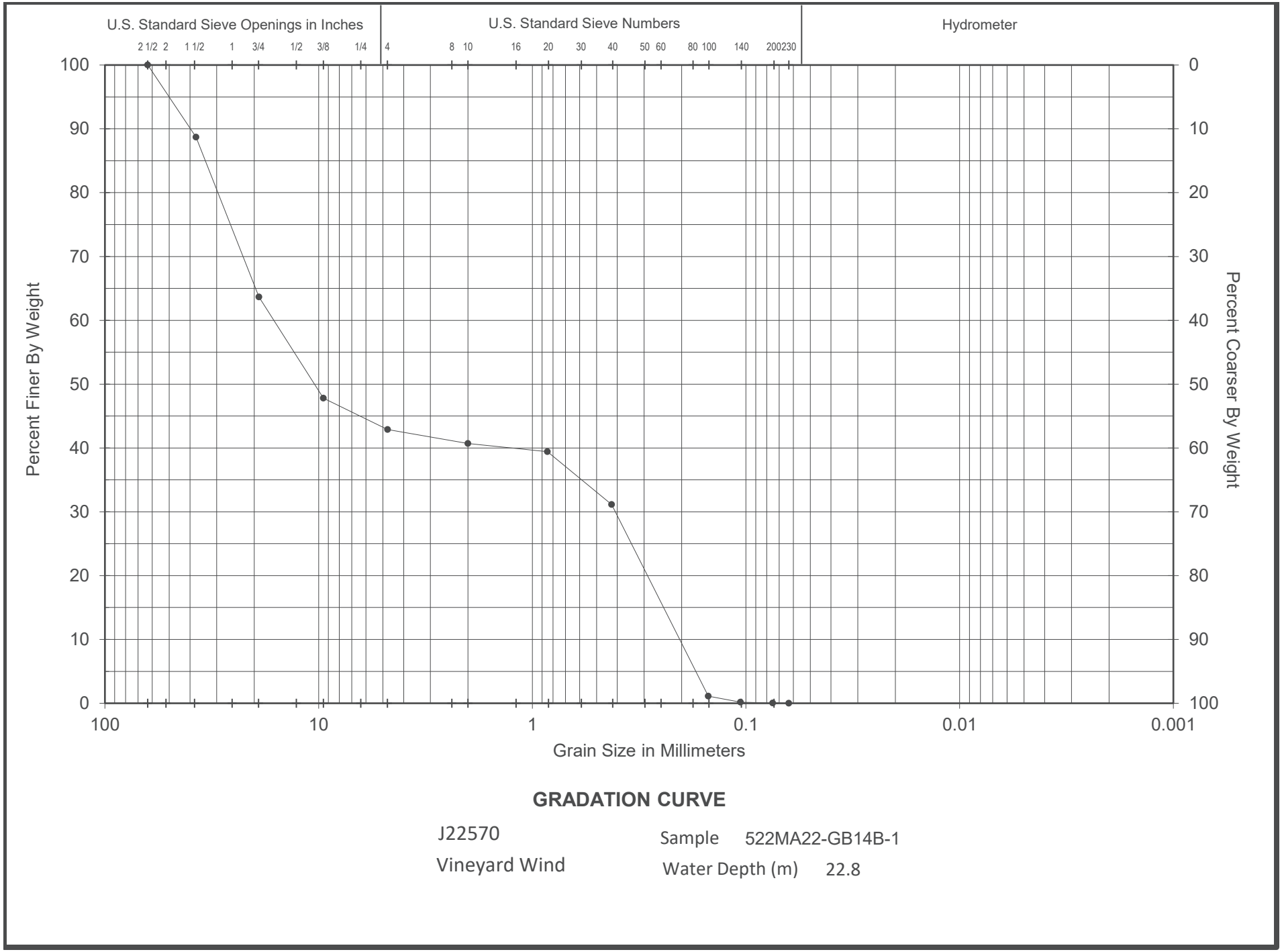
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	88.70	11.30	
19	3/4"	63.65	36.35	
9.5	3/8"	47.81	52.19	
4.75	4	42.89	57.11	
2	10	40.69	59.31	1.82
0.85	20	39.43	60.57	
0.425	40	31.15	68.85	
0.15	100	1.10	98.90	
0.106	140	0.17	99.83	
0.075	200	0.04	99.96	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	40.69
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	58.23
% Gravel-Sized Shell	> 2.00 mm	1.08
% Sand	0.0625 - 2.00 mm	40.68
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.46
% Medium Sand	0.25 - 0.50 mm	8.29
% Fine Sand	0.0625 - 0.25 mm	31.14

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.15	0.425	1.10	0.150	0.204
D30	30	31.15	0.425	1.10	0.150	0.408
D50	50	63.65	19.000	47.81	9.500	10.455
D60	60	63.65	19.000	47.81	9.500	16.195

Uniformity Coefficient (Cu)	79.313
Coefficient of Curvature (Cc)	0.050



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB14B-1

Water Depth (m) 22.8

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB15-1
Water Depth (m)	27.1

Grain Size Data

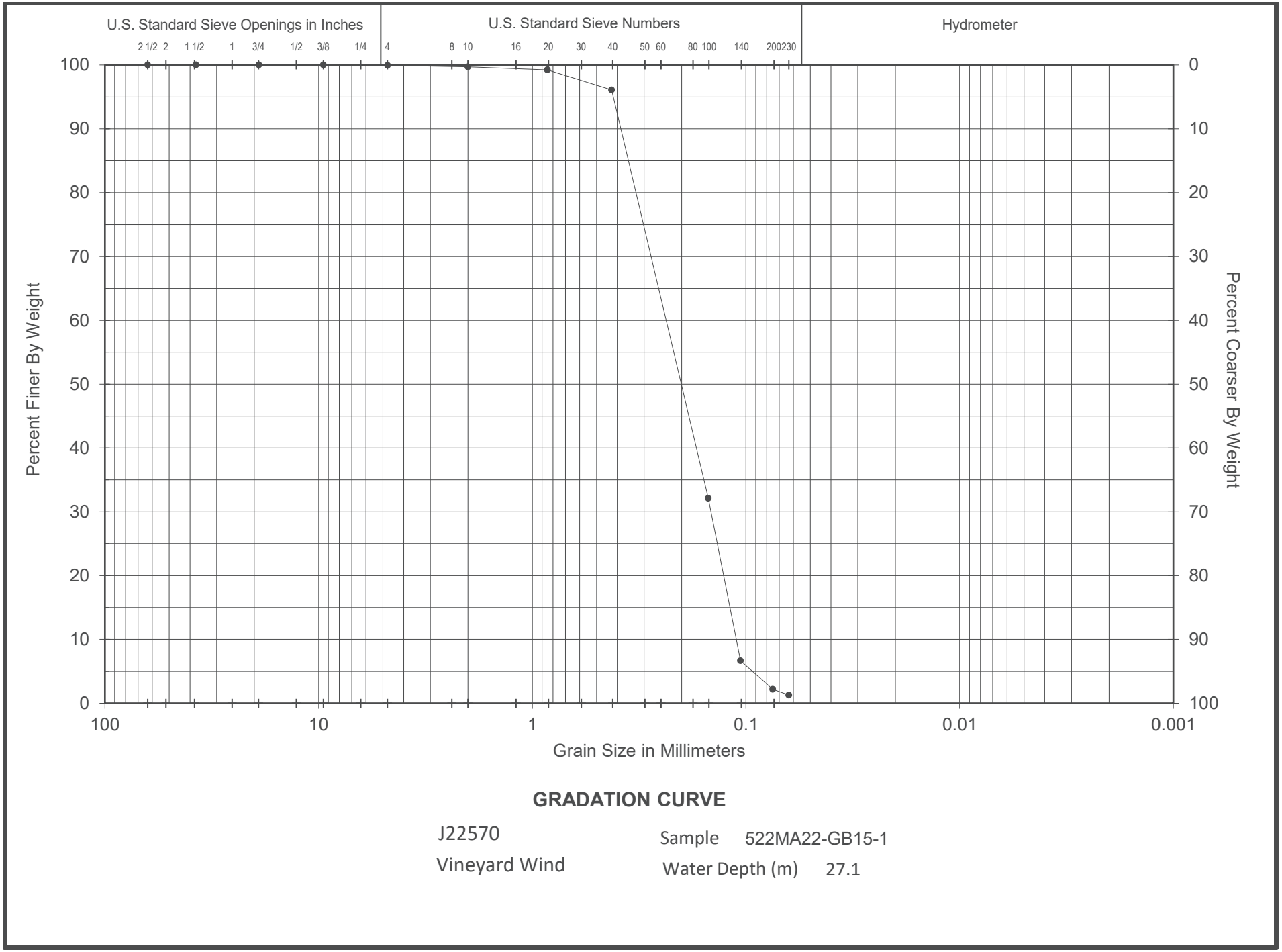
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.96	0.04	
2	10	99.72	0.28	100.00
0.85	20	99.23	0.77	
0.425	40	96.11	3.89	
0.15	100	32.12	67.88	
0.106	140	6.67	93.33	
0.075	200	2.20	97.80	
0.063	230	1.30	98.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.72
% Passing #230	1.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.28
% Sand	0.0625 - 2.00 mm	98.43
% Silt and Clay	< 0.0625 mm	1.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.73
% Medium Sand	0.25 - 0.50 mm	3.13
% Fine Sand	0.0625 - 0.25 mm	94.81

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	32.12	0.150	6.67	0.106	0.111
D30	30	32.12	0.150	6.67	0.106	0.146
D50	50	96.11	0.425	32.12	0.150	0.201
D60	60	96.11	0.425	32.12	0.150	0.236

Uniformity Coefficient (Cu)	2.129
Coefficient of Curvature (Cc)	0.811



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB15-1

Water Depth (m) 27.1

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB16A-1
Water Depth (m)	35.8

Grain Size Data

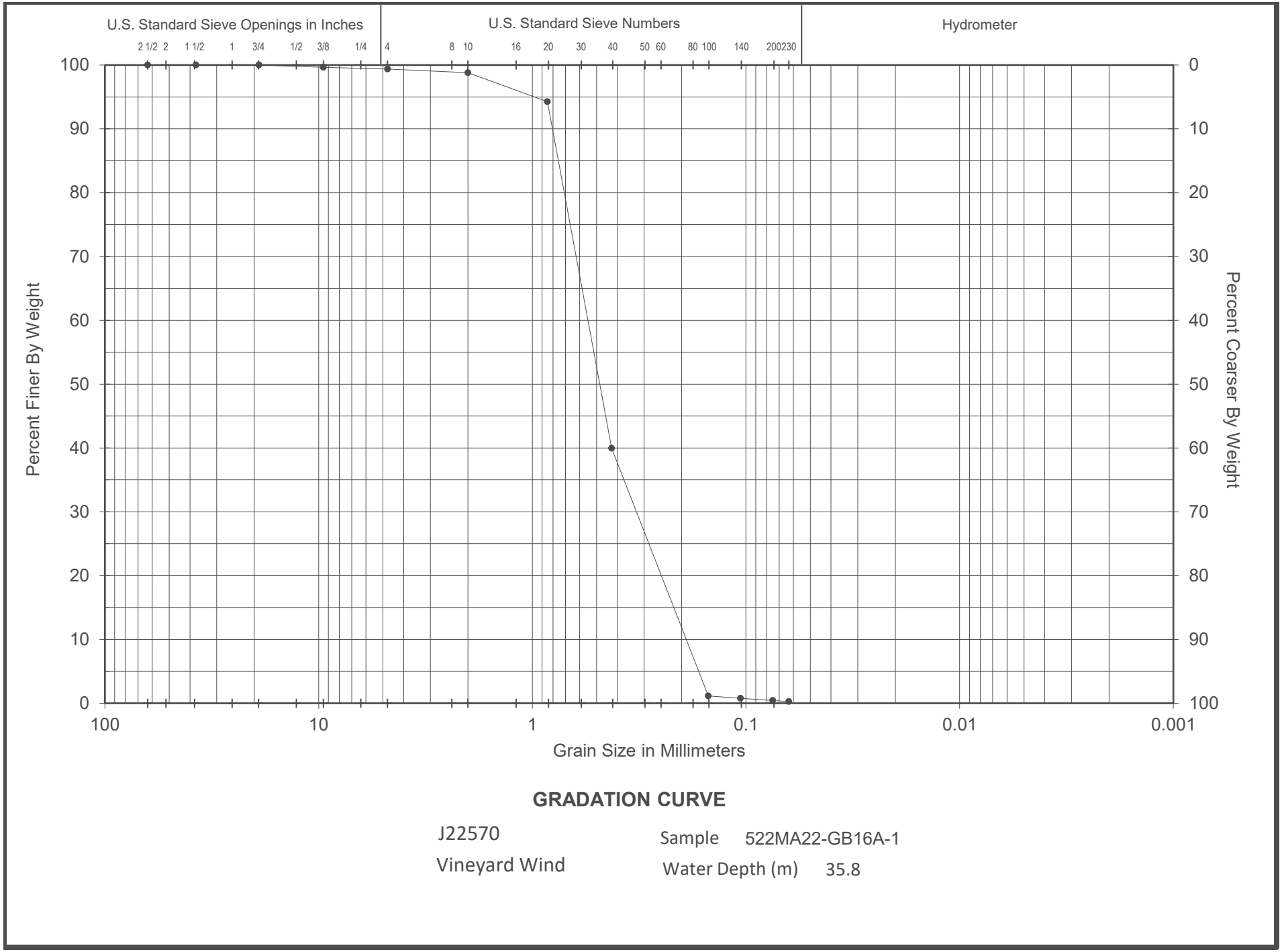
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.63	0.37	
4.75	4	99.38	0.62	
2	10	98.81	1.19	8.07
0.85	20	94.26	5.74	
0.425	40	39.97	60.03	
0.15	100	1.15	98.85	
0.106	140	0.77	99.23	
0.075	200	0.44	99.56	
0.063	230	0.26	99.74	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.81
% Passing #230	0.26
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.10
% Gravel-Sized Shell	> 2.00 mm	0.10
% Sand	0.0625 - 2.00 mm	98.55
% Silt and Clay	< 0.0625 mm	0.26
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.12
% Medium Sand	0.25 - 0.50 mm	54.29
% Fine Sand	0.0625 - 0.25 mm	39.71

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	39.97	0.425	1.15	0.150	0.190
D30	30	39.97	0.425	1.15	0.150	0.325
D50	50	94.26	0.850	39.97	0.425	0.483
D60	60	94.26	0.850	39.97	0.425	0.549

Uniformity Coefficient (Cu)	2.886
Coefficient of Curvature (Cc)	1.014



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB16A-1

Water Depth (m) 35.8

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB16B-1
Water Depth (m)	35.8

Grain Size Data

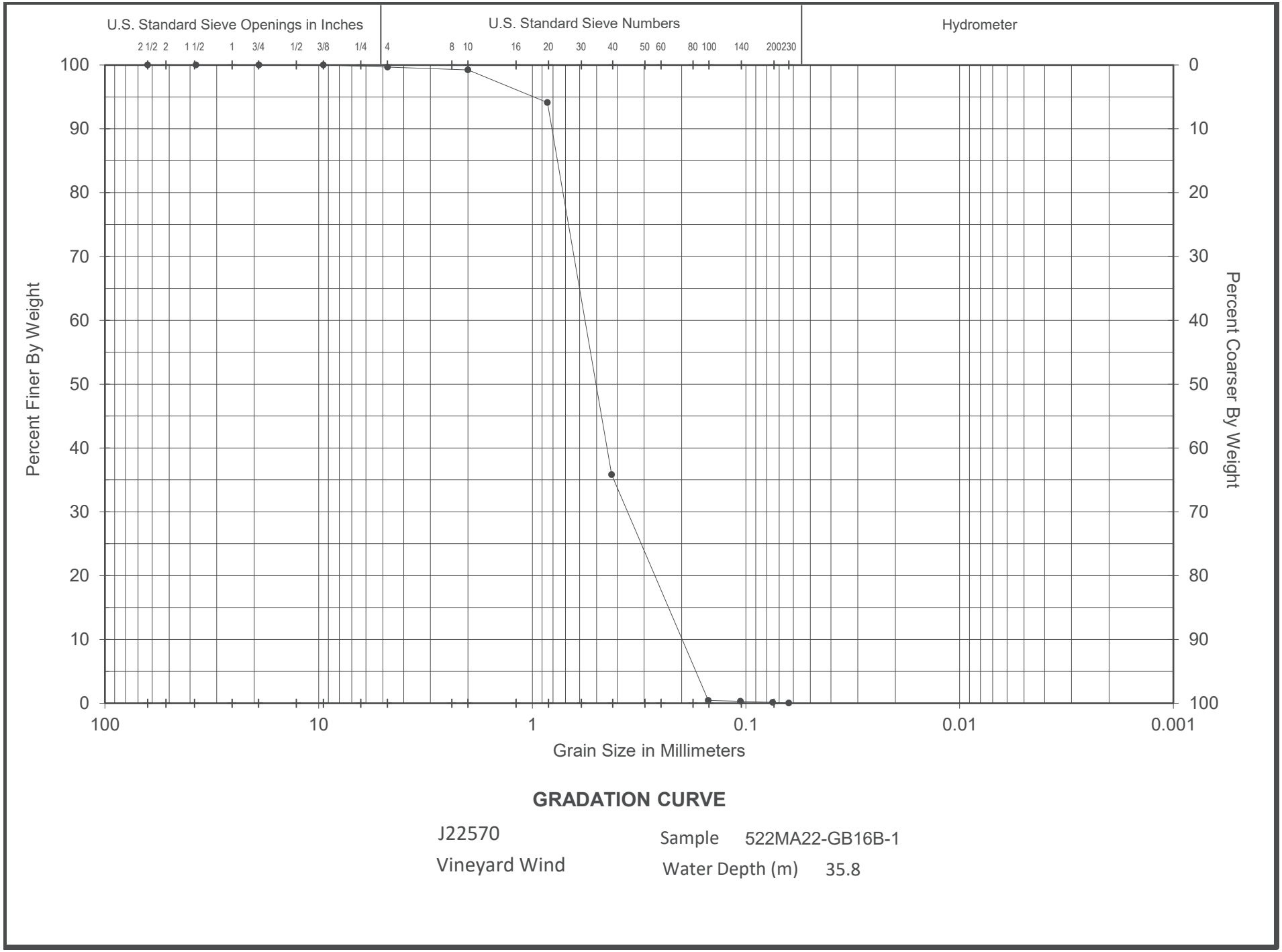
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.68	0.32	
2	10	99.24	0.76	19.41
0.85	20	94.12	5.88	
0.425	40	35.81	64.19	
0.15	100	0.43	99.57	
0.106	140	0.29	99.71	
0.075	200	0.13	99.87	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.24
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.61
% Gravel-Sized Shell	> 2.00 mm	0.15
% Sand	0.0625 - 2.00 mm	99.21
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.56
% Medium Sand	0.25 - 0.50 mm	58.31
% Fine Sand	0.0625 - 0.25 mm	35.78

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	35.81	0.425	0.43	0.150	0.199
D30	30	35.81	0.425	0.43	0.150	0.358
D50	50	94.12	0.850	35.81	0.425	0.503
D60	60	94.12	0.850	35.81	0.425	0.567

Uniformity Coefficient (Cu)	2.850
Coefficient of Curvature (Cc)	1.139



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB16B-1

Water Depth (m) 35.8

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB16C-1
Water Depth (m)	36.1

Grain Size Data

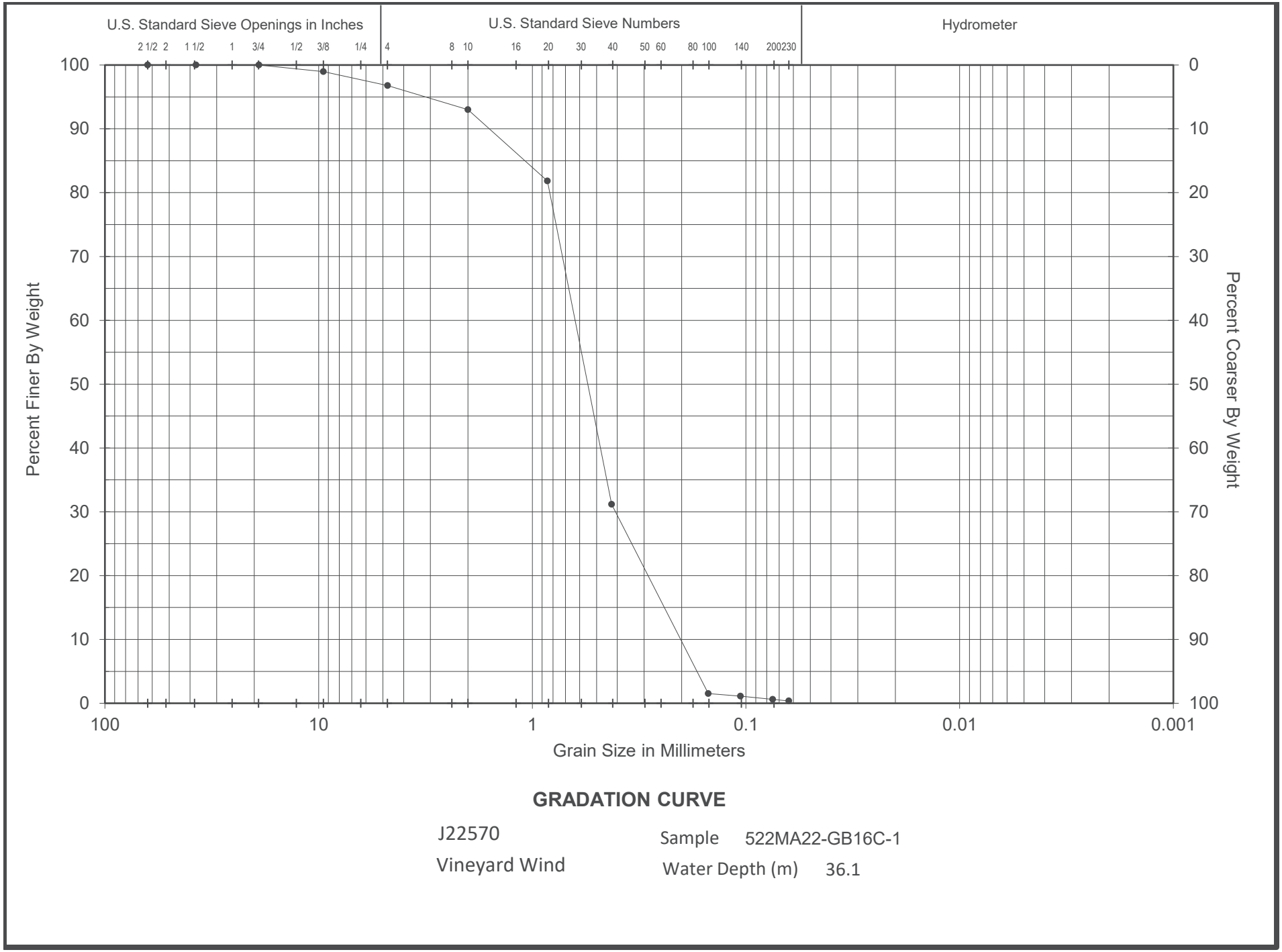
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.95	1.05	
4.75	4	96.77	3.23	
2	10	93.01	6.99	1.49
0.85	20	81.85	18.15	
0.425	40	31.19	68.81	
0.15	100	1.50	98.50	
0.106	140	1.11	98.89	
0.075	200	0.63	99.37	
0.063	230	0.36	99.64	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.01
% Passing #230	0.36
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	6.88
% Gravel-Sized Shell	> 2.00 mm	0.10
% Sand	0.0625 - 2.00 mm	92.65
% Silt and Clay	< 0.0625 mm	0.36
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.92
% Medium Sand	0.25 - 0.50 mm	50.66
% Fine Sand	0.0625 - 0.25 mm	30.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.19	0.425	1.50	0.150	0.202
D30	30	31.19	0.425	1.50	0.150	0.408
D50	50	81.85	0.850	31.19	0.425	0.550
D60	60	81.85	0.850	31.19	0.425	0.630

Uniformity Coefficient (Cu)	3.119
Coefficient of Curvature (Cc)	1.304



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB16C-1

Water Depth (m) 36.1

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB17-1
Water Depth (m)	41

Grain Size Data

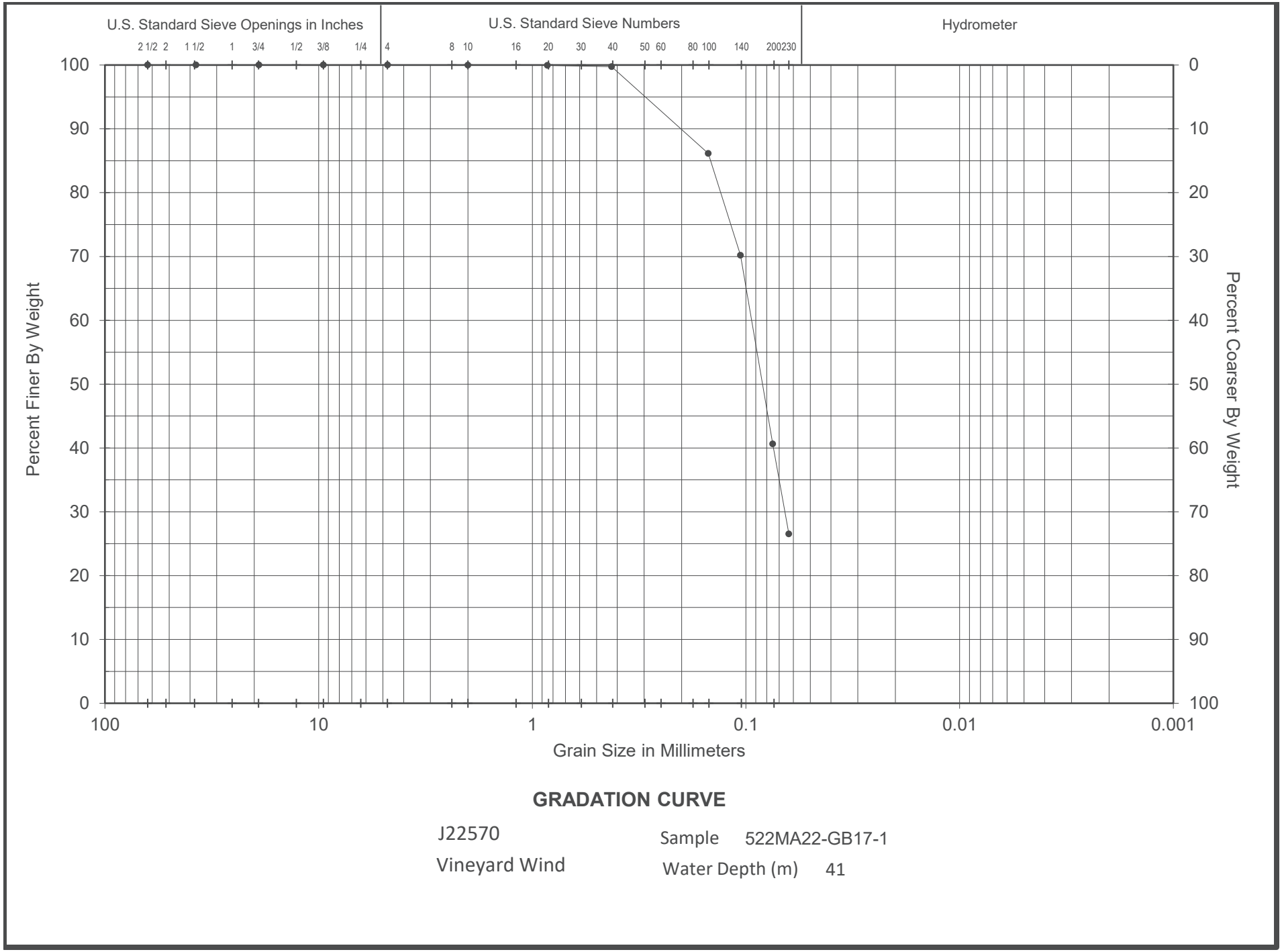
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	40.00
0.85	20	99.96	0.04	
0.425	40	99.76	0.24	
0.15	100	86.14	13.86	
0.106	140	70.19	29.81	
0.075	200	40.62	59.38	
0.063	230	26.54	73.46	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10 99.99
% Passing #230 26.54
% Pass 2µ #VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	73.45
% Silt and Clay	< 0.0625 mm	26.54
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.20
% Fine Sand	0.0625 - 0.25 mm	73.22

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	26.54	0.063	#N/A	#N/A	#N/A
D30	30	40.62	0.075	26.54	0.063	0.066
D50	50	70.19	0.106	40.62	0.075	0.084
D60	60	70.19	0.106	40.62	0.075	0.094

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB17-1

Water Depth (m) 41

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB18A-1
Water Depth (m)	41.4

Grain Size Data

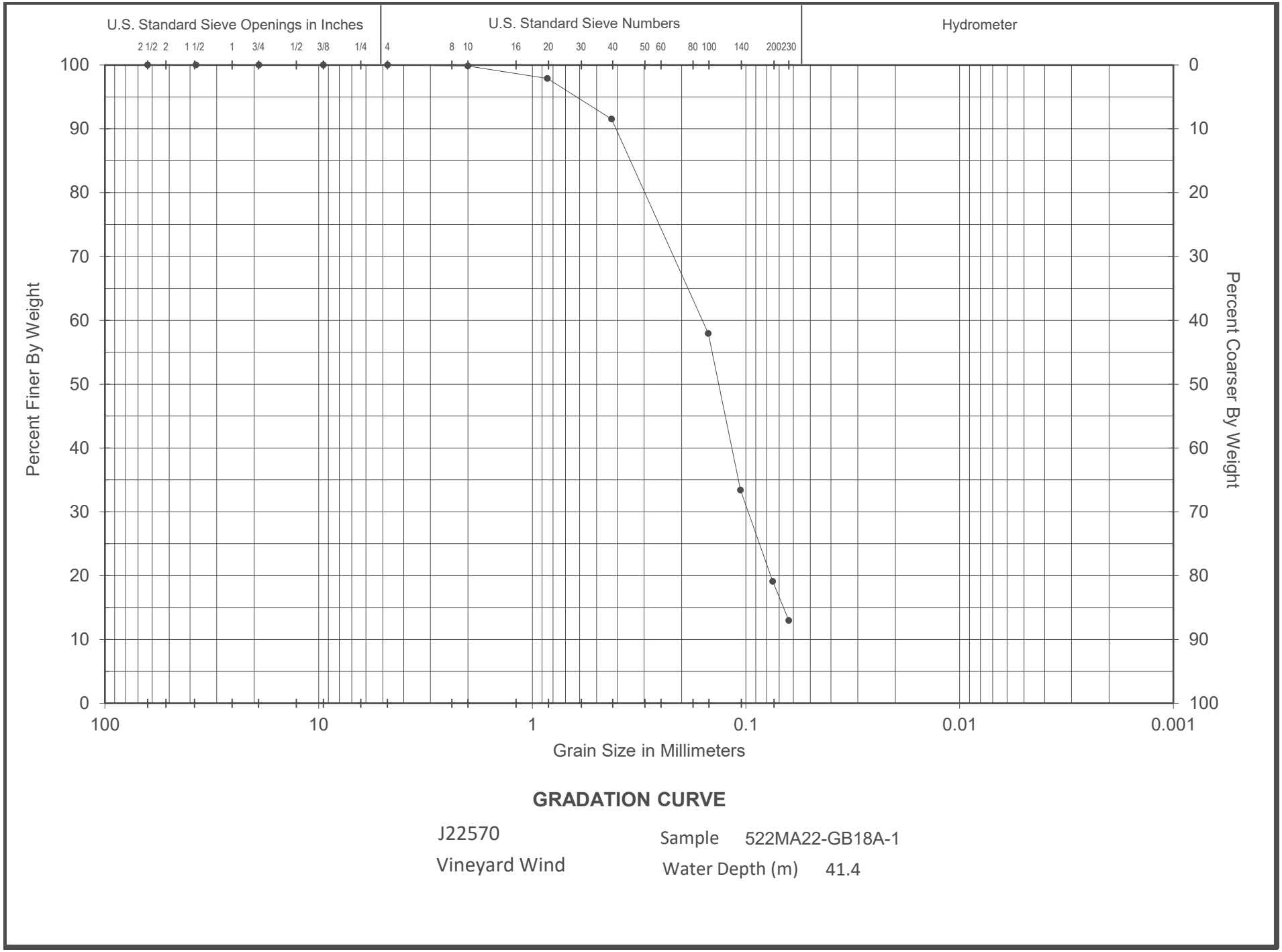
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.85	0.15	2.33
0.85	20	97.90	2.10	
0.425	40	91.52	8.48	
0.15	100	57.92	42.08	
0.106	140	33.40	66.60	
0.075	200	19.09	80.91	
0.063	230	12.96	87.04	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.85
% Passing #230	12.96
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.14
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	86.89
% Silt and Clay	< 0.0625 mm	12.96
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.10
% Medium Sand	0.25 - 0.50 mm	6.39
% Fine Sand	0.0625 - 0.25 mm	78.56

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)	2nd Next Larger %Finer	$D_{(\text{2nd Next Larger \%Finer})}$ (mm)
D10	10	12.96	0.063	#N/A	#N/A	#N/A	19.094	0.075
D30	30	33.40	0.106	19.09	0.075	0.098		
D50	50	57.92	0.150	33.40	0.106	0.134		
D60	60	91.52	0.425	57.92	0.150	0.160		

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB18A-1

Water Depth (m) 41.4

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB18B-1
Water Depth (m)	41.3

Grain Size Data

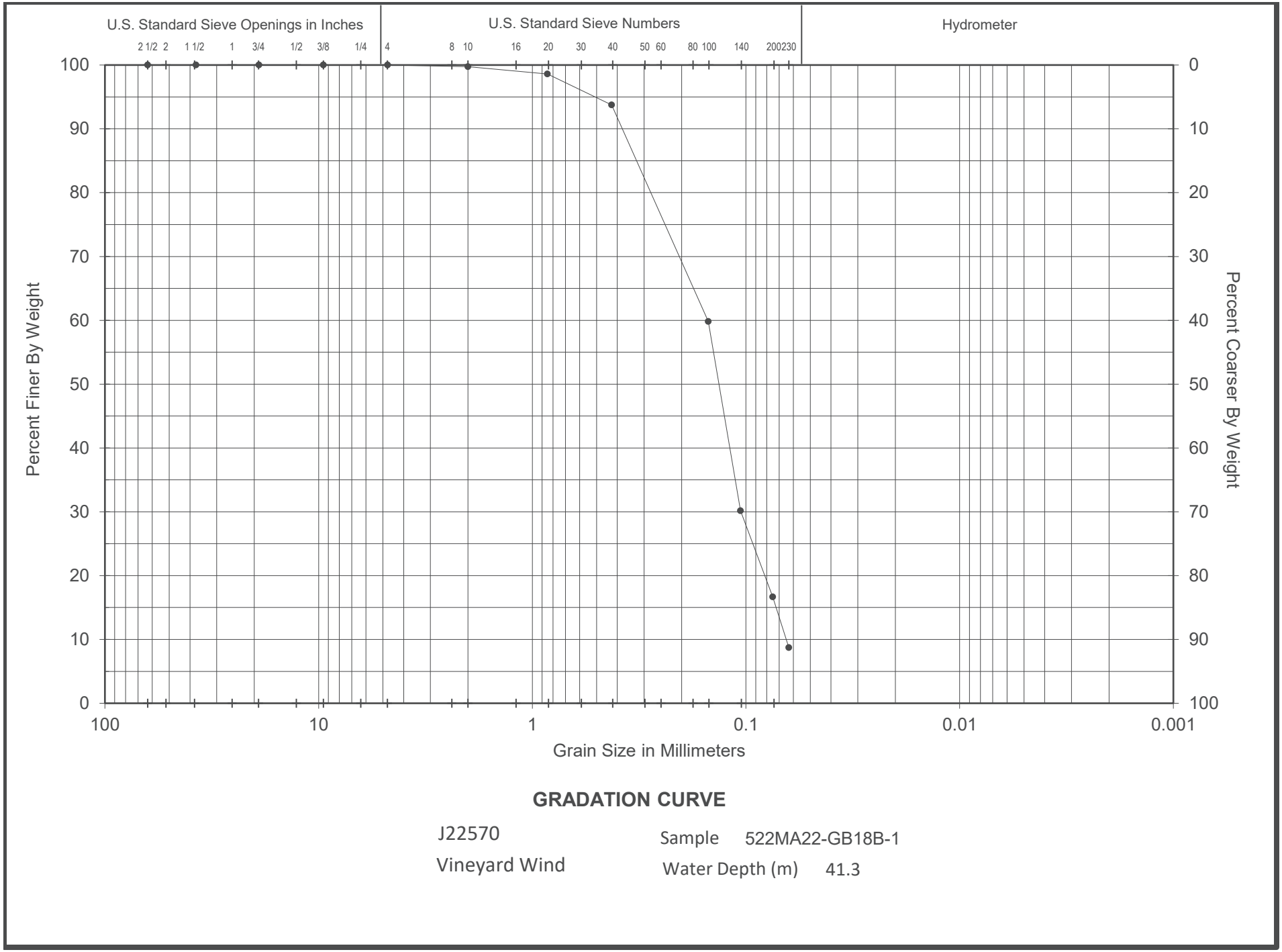
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.74	0.26	4.26
0.85	20	98.60	1.40	
0.425	40	93.75	6.25	
0.15	100	59.83	40.17	
0.106	140	30.18	69.82	
0.075	200	16.68	83.32	
0.063	230	8.71	91.29	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.74
% Passing #230	8.71
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.25
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	91.03
% Silt and Clay	< 0.0625 mm	8.71
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.40
% Medium Sand	0.25 - 0.50 mm	4.85
% Fine Sand	0.0625 - 0.25 mm	85.04

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.68	0.075	8.71	0.063	0.065
D30	30	30.18	0.106	16.68	0.075	0.106
D50	50	59.83	0.150	30.18	0.106	0.134
D60	60	93.75	0.425	59.83	0.150	0.151

Uniformity Coefficient (Cu)	2.327
Coefficient of Curvature (Cc)	1.139



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB18B-1

Water Depth (m) 41.3

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB18C-1
Water Depth (m)	41.54

Grain Size Data

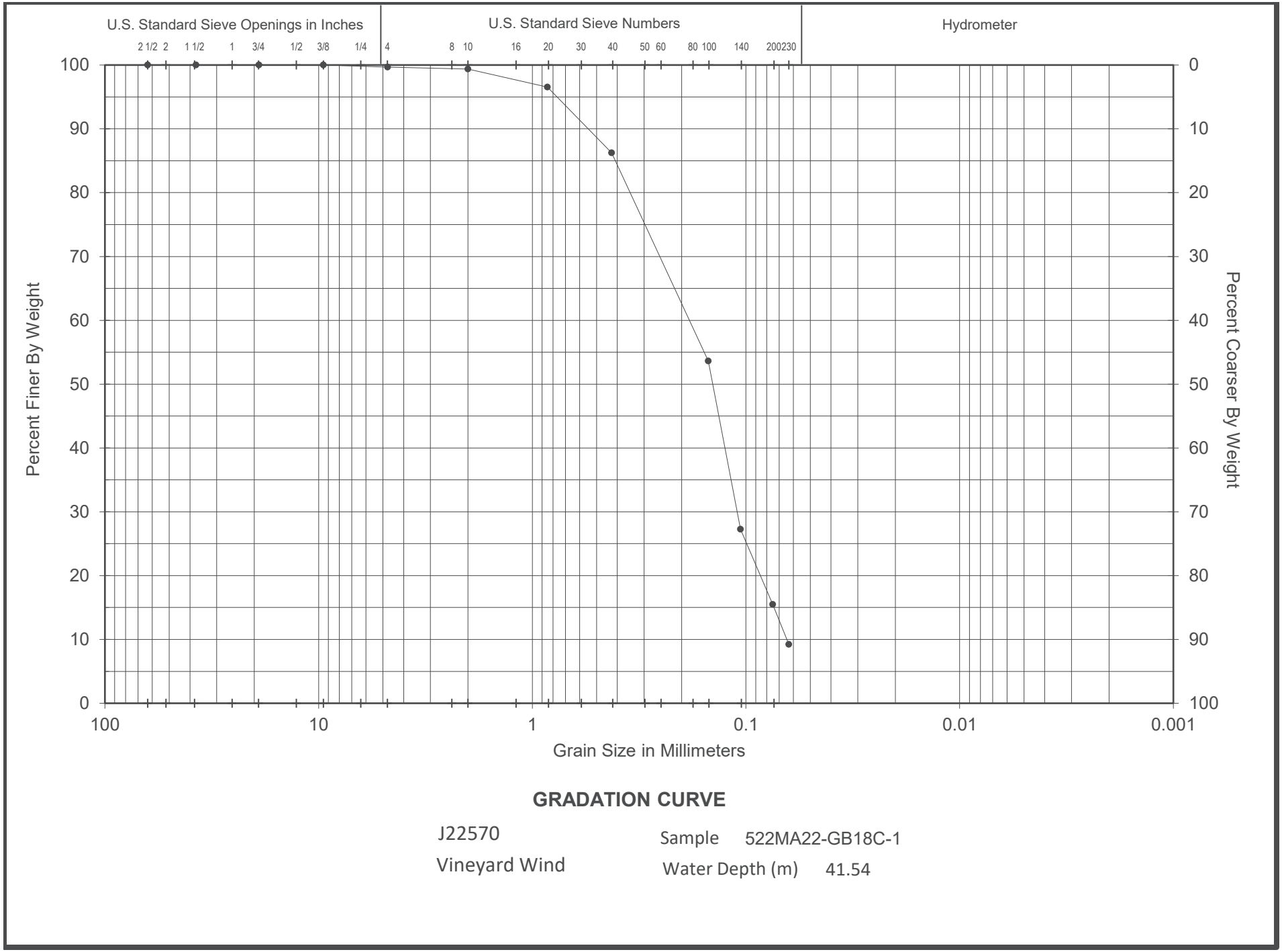
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.67	0.33	
2	10	99.39	0.61	0.00
0.85	20	96.55	3.45	
0.425	40	86.23	13.77	
0.15	100	53.61	46.39	
0.106	140	27.27	72.73	
0.075	200	15.49	84.51	
0.063	230	9.22	90.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.39
% Passing #230	9.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.61
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	90.16
% Silt and Clay	< 0.0625 mm	9.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.12
% Medium Sand	0.25 - 0.50 mm	10.32
% Fine Sand	0.0625 - 0.25 mm	77.01

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.49	0.075	9.22	0.063	0.064
D30	30	53.61	0.150	27.27	0.106	0.110
D50	50	53.61	0.150	27.27	0.106	0.143
D60	60	86.23	0.425	53.61	0.150	0.184

Uniformity Coefficient (Cu)	2.857
Coefficient of Curvature (Cc)	1.020



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB18C-1

Water Depth (m) 41.54

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB19-1
Water Depth (m)	40

Grain Size Data

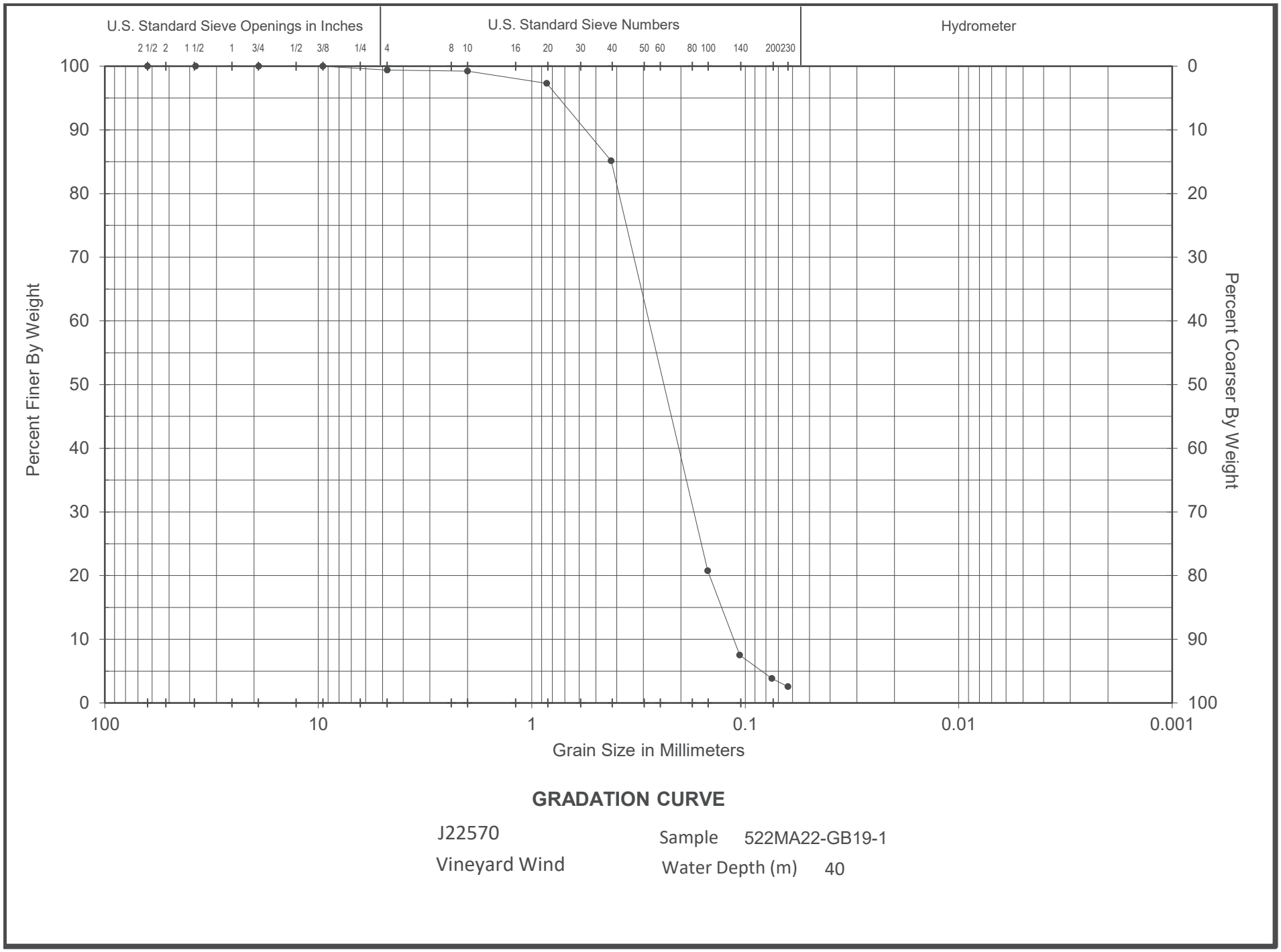
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.39	0.61	
2	10	99.22	0.78	33.85
0.85	20	97.32	2.68	
0.425	40	85.13	14.87	
0.15	100	20.75	79.25	
0.106	140	7.51	92.49	
0.075	200	3.85	96.15	
0.063	230	2.55	97.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.22
% Passing #230	2.55
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.52
% Gravel-Sized Shell	> 2.00 mm	0.27
% Sand	0.0625 - 2.00 mm	96.67
% Silt and Clay	< 0.0625 mm	2.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.07
% Medium Sand	0.25 - 0.50 mm	12.19
% Fine Sand	0.0625 - 0.25 mm	82.59

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.75	0.150	7.51	0.106	0.113
D30	30	85.13	0.425	20.75	0.150	0.174
D50	50	85.13	0.425	20.75	0.150	0.241
D60	60	85.13	0.425	20.75	0.150	0.283

Uniformity Coefficient (Cu)	2.501
Coefficient of Curvature (Cc)	0.948



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB19-1

Water Depth (m) 40

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB20A-1
Water Depth (m)	36.5

Grain Size Data

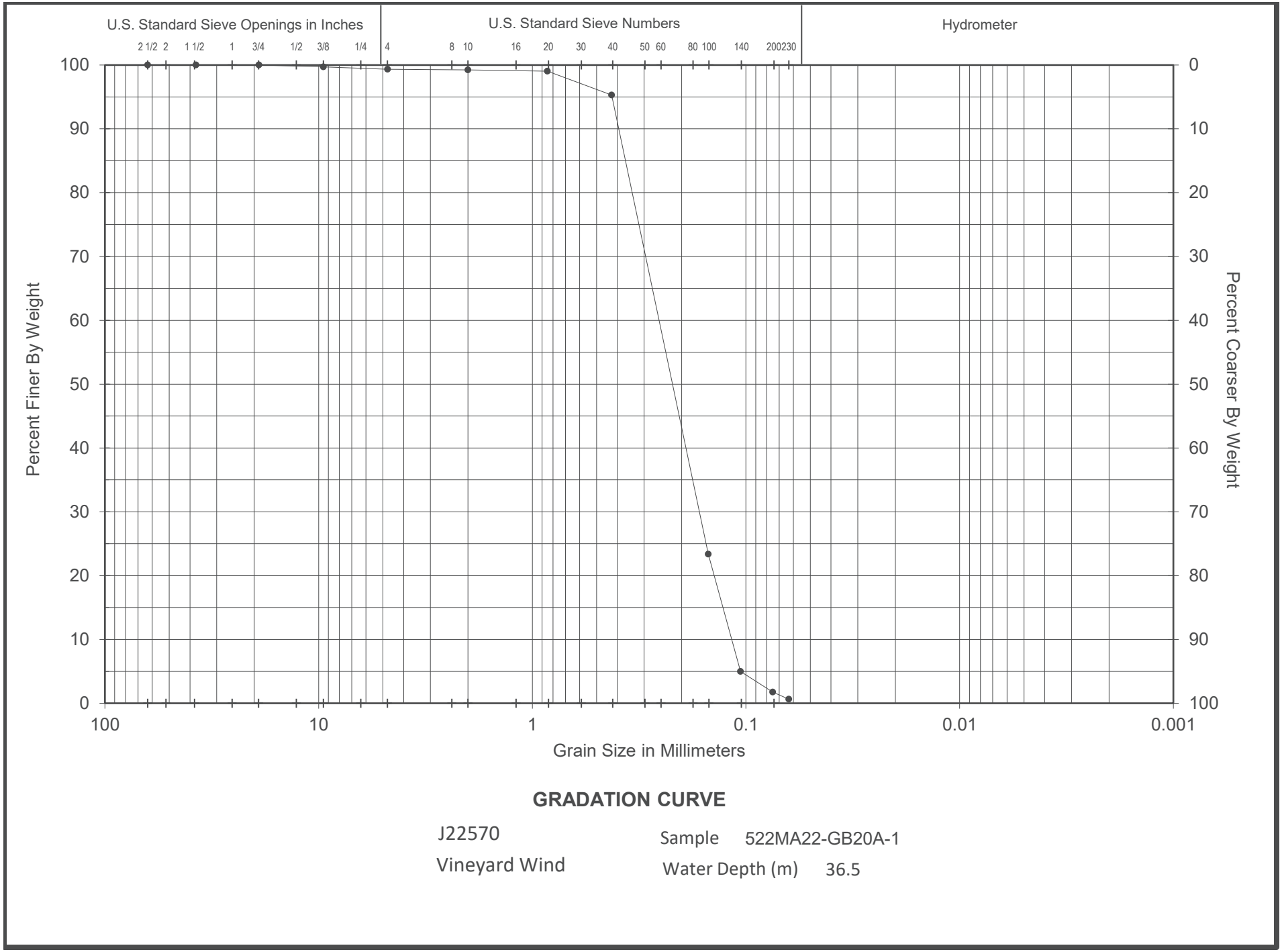
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.71	0.29	
4.75	4	99.35	0.65	
2	10	99.22	0.78	100.00
0.85	20	99.05	0.95	
0.425	40	95.30	4.70	
0.15	100	23.37	76.63	
0.106	140	5.00	95.00	
0.075	200	1.74	98.26	
0.063	230	0.64	99.36	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.22
% Passing #230	0.64
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.78
% Sand	0.0625 - 2.00 mm	98.59
% Silt and Clay	< 0.0625 mm	0.64
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.31
% Medium Sand	0.25 - 0.50 mm	3.74
% Fine Sand	0.0625 - 0.25 mm	94.67

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.37	0.150	5.00	0.106	0.117
D30	30	95.30	0.425	23.37	0.150	0.165
D50	50	95.30	0.425	23.37	0.150	0.221
D60	60	95.30	0.425	23.37	0.150	0.255

Uniformity Coefficient (Cu)	2.188
Coefficient of Curvature (Cc)	0.918



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB20A-1

Water Depth (m) 36.5

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB20B-1
Water Depth (m)	36.67

Grain Size Data

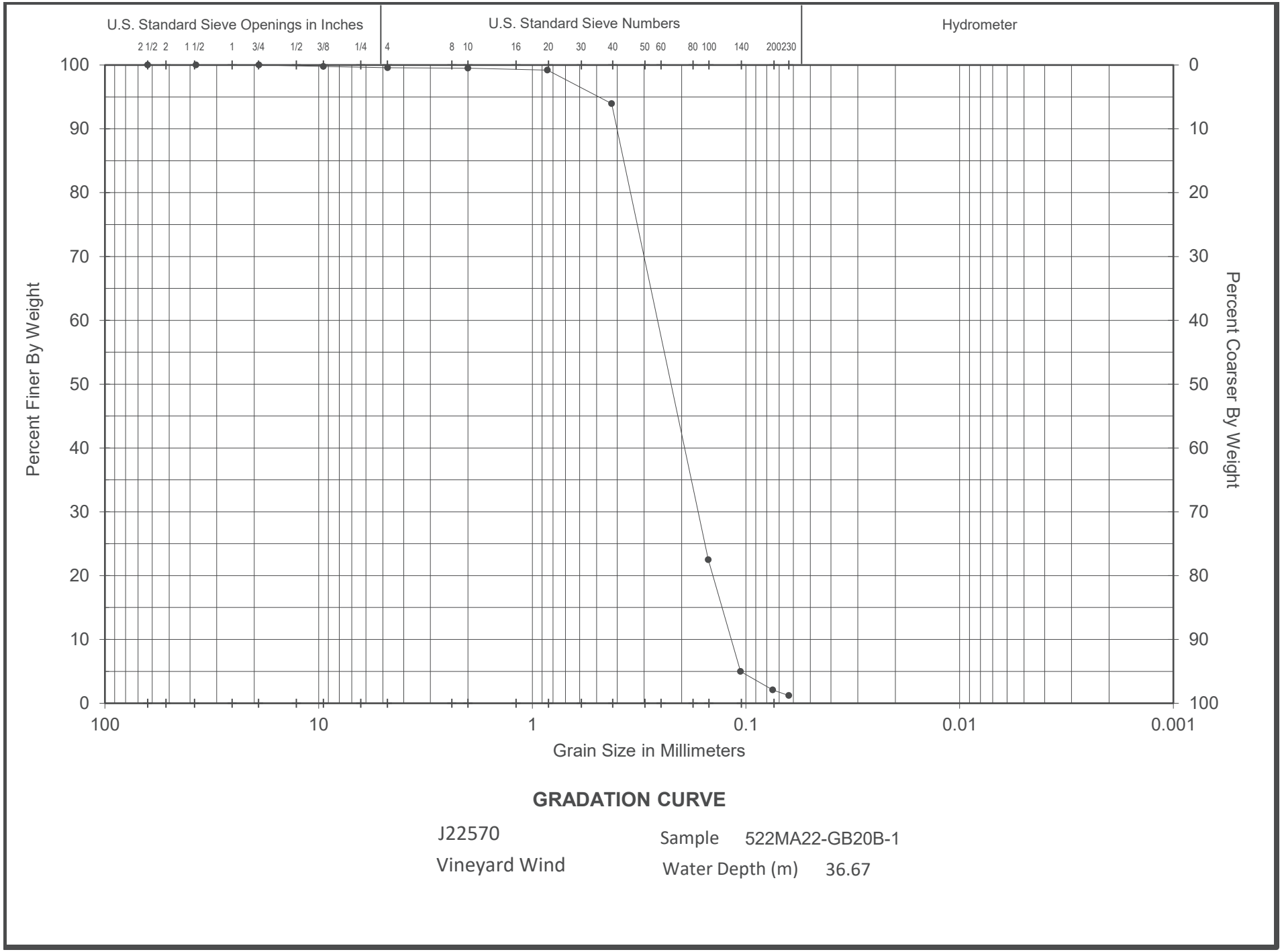
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.78	0.22	
4.75	4	99.59	0.41	
2	10	99.52	0.48	100.00
0.85	20	99.19	0.81	
0.425	40	93.95	6.05	
0.15	100	22.49	77.51	
0.106	140	4.98	95.02	
0.075	200	2.10	97.90	
0.063	230	1.20	98.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.52
% Passing #230	1.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.48
% Sand	0.0625 - 2.00 mm	98.31
% Silt and Clay	< 0.0625 mm	1.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.40
% Medium Sand	0.25 - 0.50 mm	5.23
% Fine Sand	0.0625 - 0.25 mm	92.75

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.49	0.150	4.98	0.106	0.117
D30	30	93.95	0.425	22.49	0.150	0.167
D50	50	93.95	0.425	22.49	0.150	0.224
D60	60	93.95	0.425	22.49	0.150	0.259

Uniformity Coefficient (Cu)	2.213
Coefficient of Curvature (Cc)	0.923



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB20B-1

Water Depth (m) 36.67

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB20C-1
Water Depth (m)	36.49

Grain Size Data

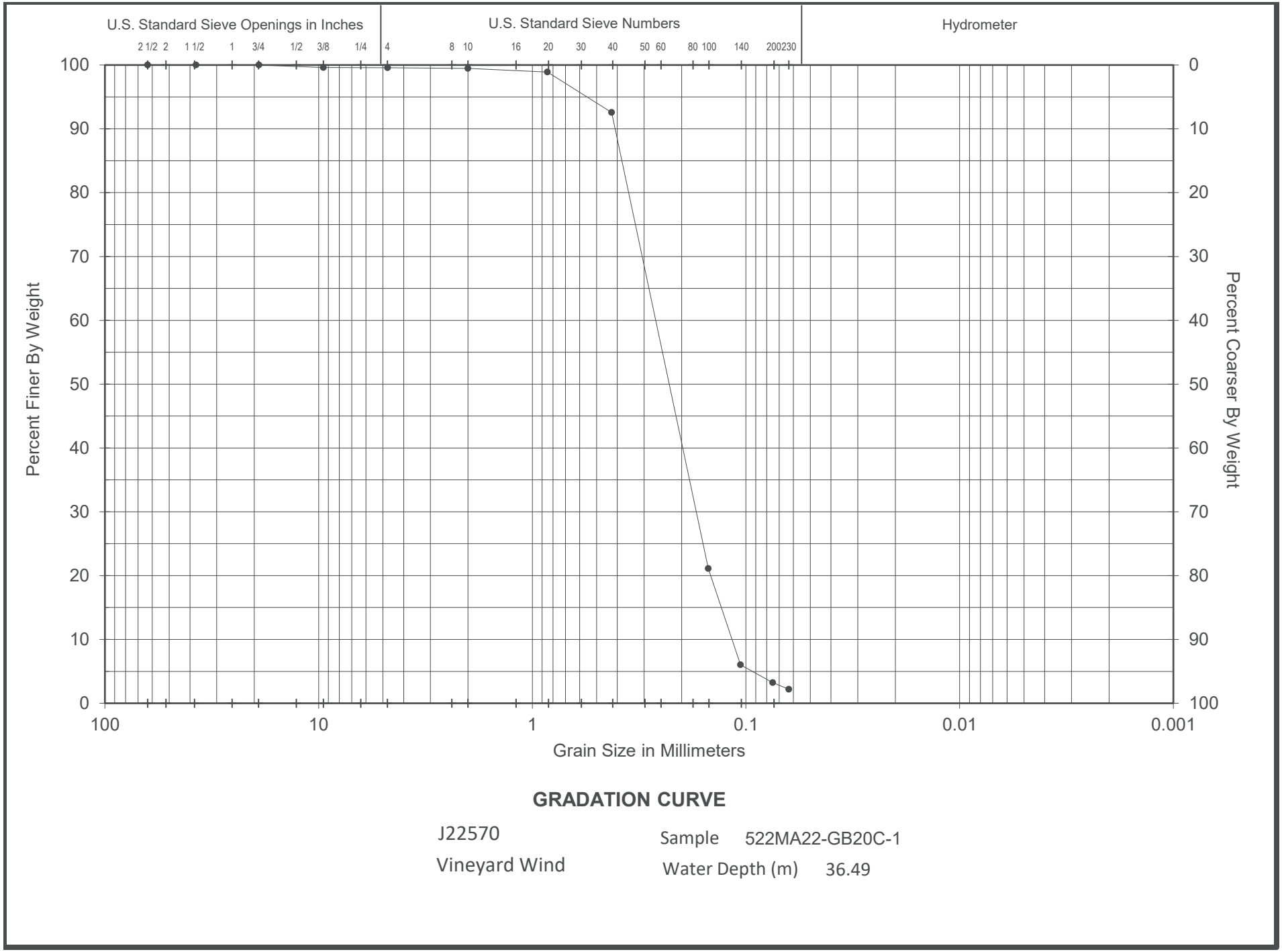
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.61	0.39	
4.75	4	99.56	0.44	
2	10	99.46	0.54	100.00
0.85	20	98.90	1.10	
0.425	40	92.58	7.42	
0.15	100	21.12	78.88	
0.106	140	6.02	93.98	
0.075	200	3.22	96.78	
0.063	230	2.20	97.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.46
% Passing #230	2.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.54
% Sand	0.0625 - 2.00 mm	97.26
% Silt and Clay	< 0.0625 mm	2.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.66
% Medium Sand	0.25 - 0.50 mm	6.32
% Fine Sand	0.0625 - 0.25 mm	90.38

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.12	0.150	6.02	0.106	0.116
D30	30	92.58	0.425	21.12	0.150	0.171
D50	50	92.58	0.425	21.12	0.150	0.229
D60	60	92.58	0.425	21.12	0.150	0.264

Uniformity Coefficient (Cu)	2.276
Coefficient of Curvature (Cc)	0.949



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB20C-1

Water Depth (m) 36.49

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB21-1
Water Depth (m)	36.2

Grain Size Data

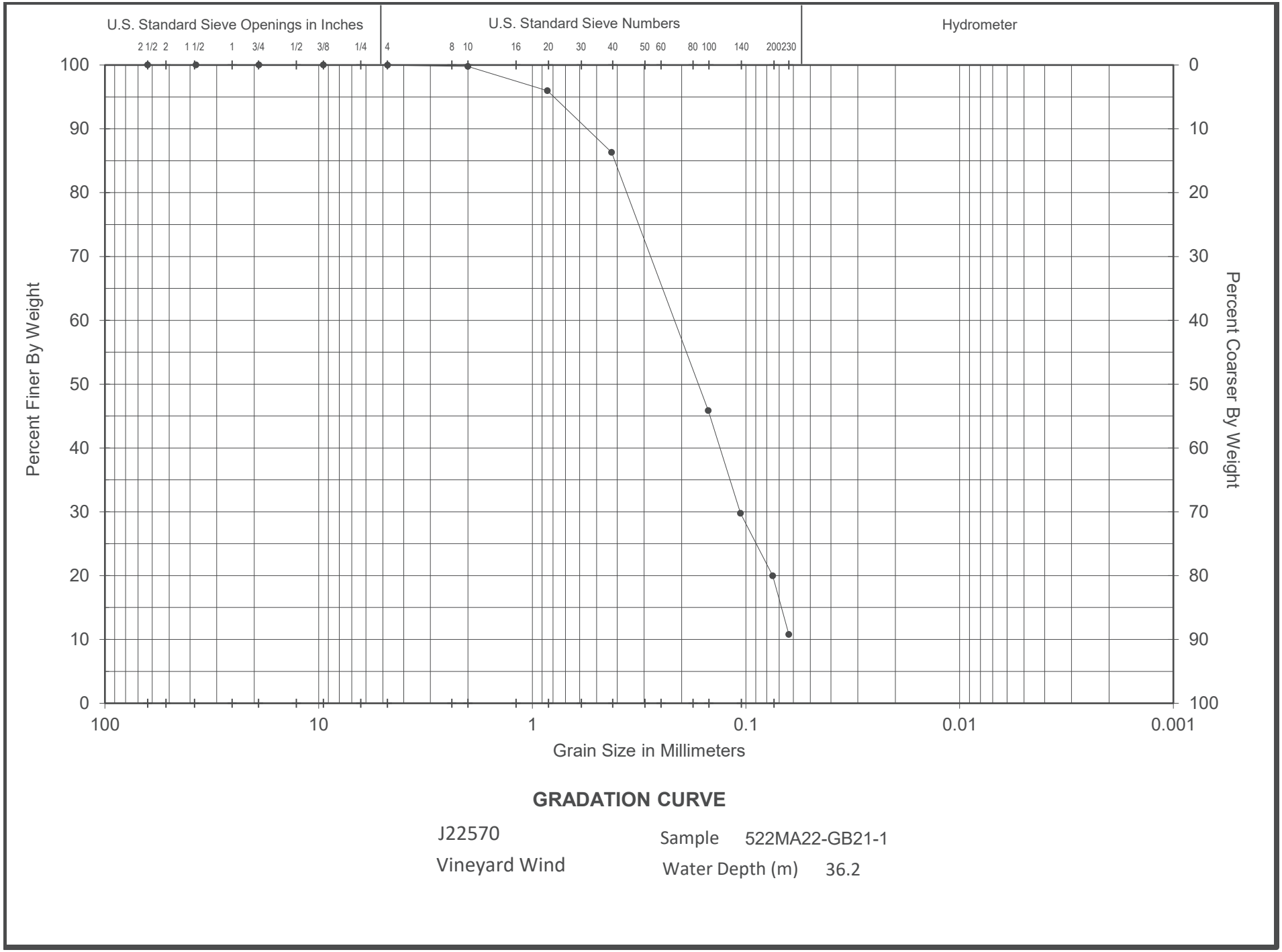
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.79	0.21	32.50
0.85	20	95.98	4.02	
0.425	40	86.32	13.68	
0.15	100	45.85	54.15	
0.106	140	29.75	70.25	
0.075	200	19.96	80.04	
0.063	230	10.78	89.22	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10 99.79
% Passing #230 10.78
% Pass 2µ #VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.14
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	89.01
% Silt and Clay	< 0.0625 mm	10.78
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.99
% Medium Sand	0.25 - 0.50 mm	9.66
% Fine Sand	0.0625 - 0.25 mm	75.54

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	10.78	0.063	#N/A	#N/A	#N/A
D30	30	45.85	0.150	29.75	0.106	0.107
D50	50	86.32	0.425	45.85	0.150	0.167
D60	60	86.32	0.425	45.85	0.150	0.216

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB21-1

Water Depth (m) 36.2

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB22A-1
Water Depth (m)	36.12

Grain Size Data

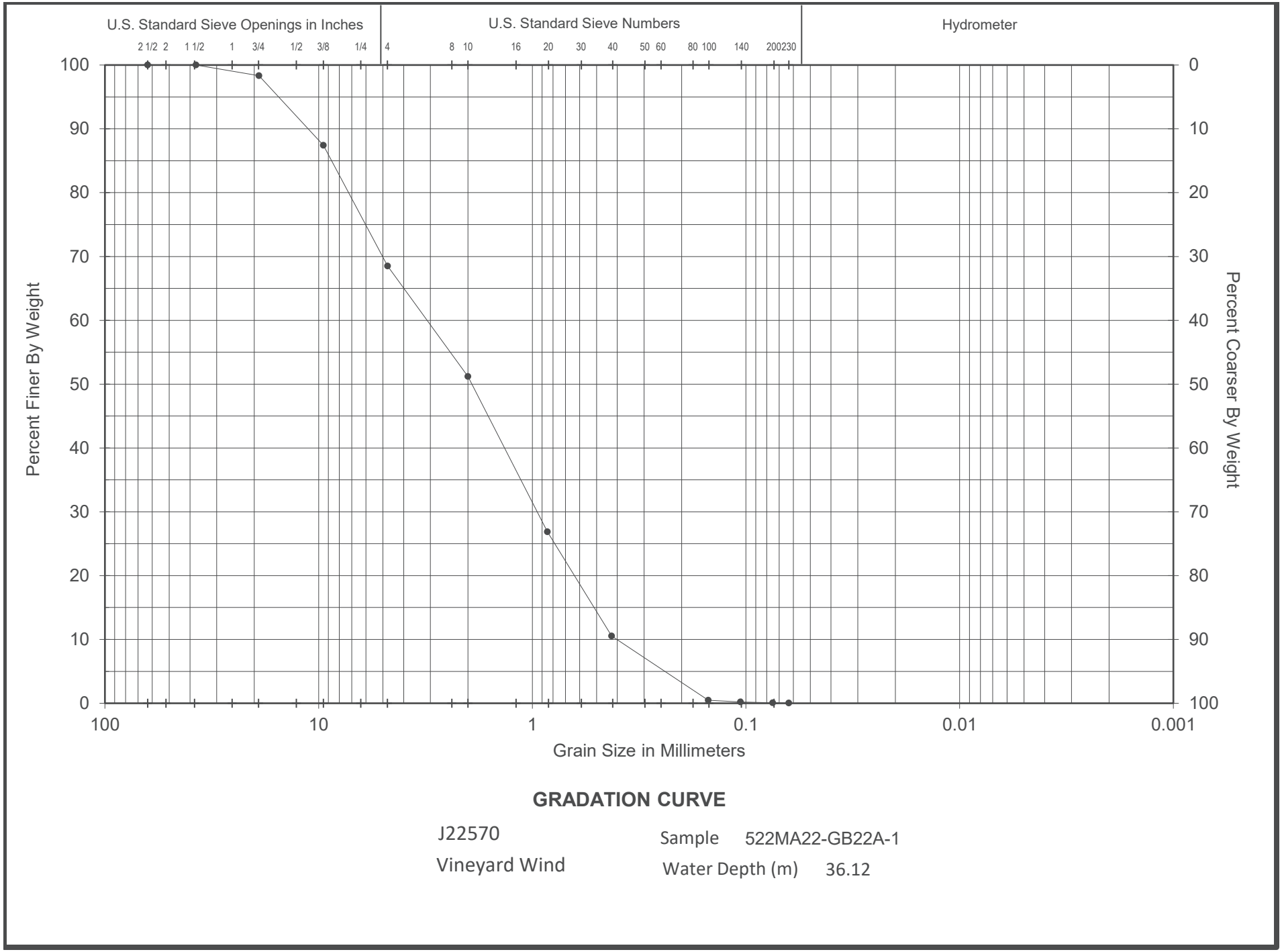
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.31	1.69	
9.5	3/8"	87.44	12.56	
4.75	4	68.50	31.50	
2	10	51.20	48.80	0.29
0.85	20	26.85	73.15	
0.425	40	10.55	89.45	
0.15	100	0.46	99.54	
0.106	140	0.19	99.81	
0.075	200	0.09	99.91	
0.063	230	0.05	99.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	51.20
% Passing #230	0.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	48.66
% Gravel-Sized Shell	> 2.00 mm	0.14
% Sand	0.0625 - 2.00 mm	51.16
% Silt and Clay	< 0.0625 mm	0.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	41.65
% Medium Sand	0.25 - 0.50 mm	16.30
% Fine Sand	0.0625 - 0.25 mm	10.51

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.55	0.425	0.46	0.150	0.401
D30	30	51.20	2.000	26.85	0.850	0.949
D50	50	51.20	2.000	26.85	0.850	1.917
D60	60	68.50	4.750	51.20	2.000	3.105

Uniformity Coefficient (Cu)	7.736
Coefficient of Curvature (Cc)	0.723



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB22A-1

Water Depth (m) 36.12

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB22B-1
Water Depth (m)	35.32

Grain Size Data

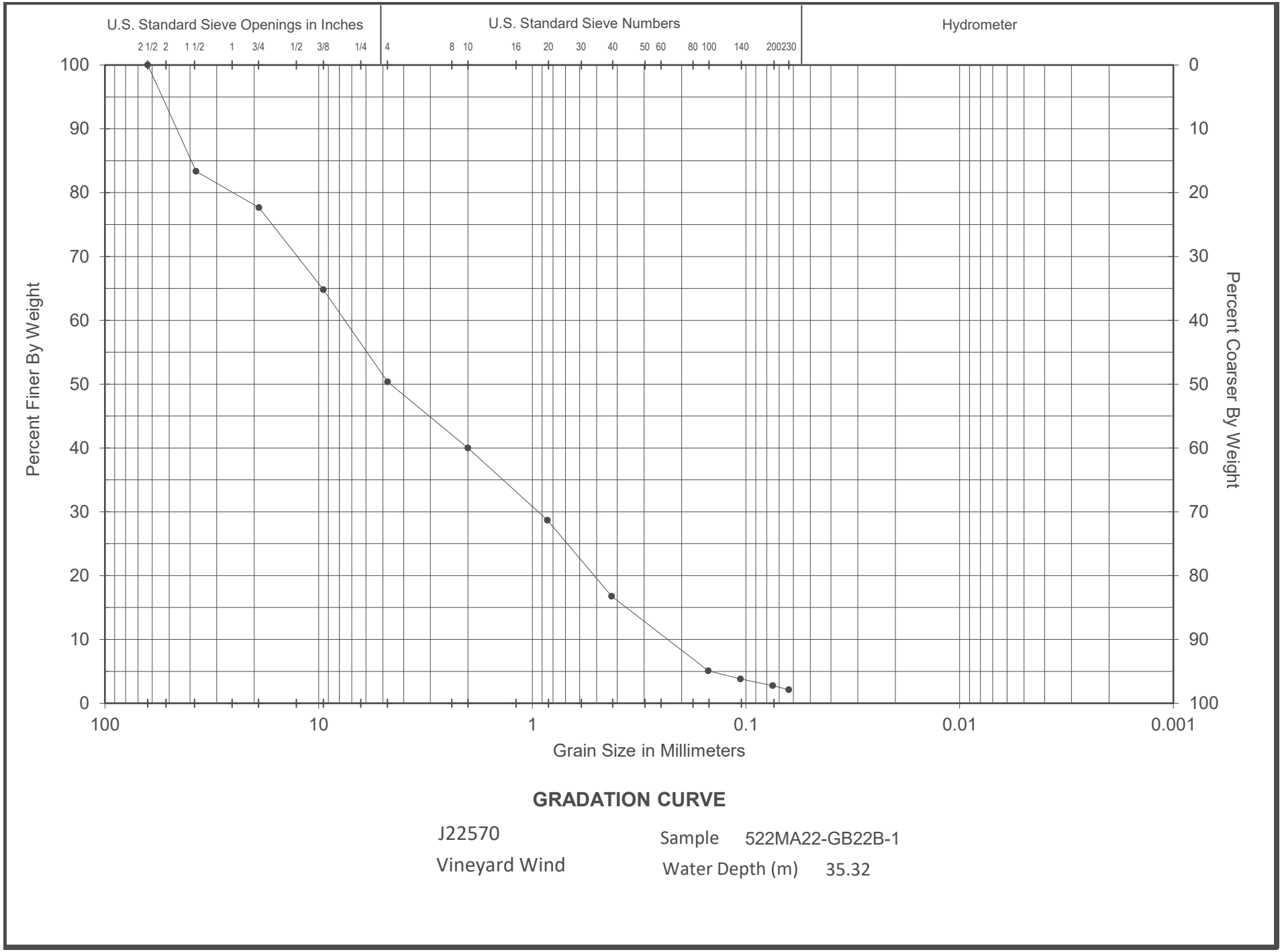
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	83.35	16.65	
19	3/4"	77.66	22.34	
9.5	3/8"	64.81	35.19	
4.75	4	50.37	49.63	
2	10	40.00	60.00	0.28
0.85	20	28.67	71.33	
0.425	40	16.76	83.24	
0.15	100	5.08	94.92	
0.106	140	3.79	96.21	
0.075	200	2.77	97.23	
0.063	230	2.12	97.88	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	40.00
% Passing #230	2.12
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	59.83
% Gravel-Sized Shell	> 2.00 mm	0.17
% Sand	0.0625 - 2.00 mm	37.88
% Silt and Clay	< 0.0625 mm	2.12
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	21.70
% Medium Sand	0.25 - 0.50 mm	11.90
% Fine Sand	0.0625 - 0.25 mm	14.64

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.76	0.425	5.08	0.150	0.233
D30	30	40.00	2.000	28.67	0.850	0.940
D50	50	50.37	4.750	40.00	2.000	4.607
D60	60	64.81	9.500	50.37	4.750	7.542

Uniformity Coefficient (Cu)	32.427
Coefficient of Curvature (Cc)	0.504



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB22B-1

Water Depth (m) 35.32

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB22C-1
Water Depth (m)	35.64

Grain Size Data

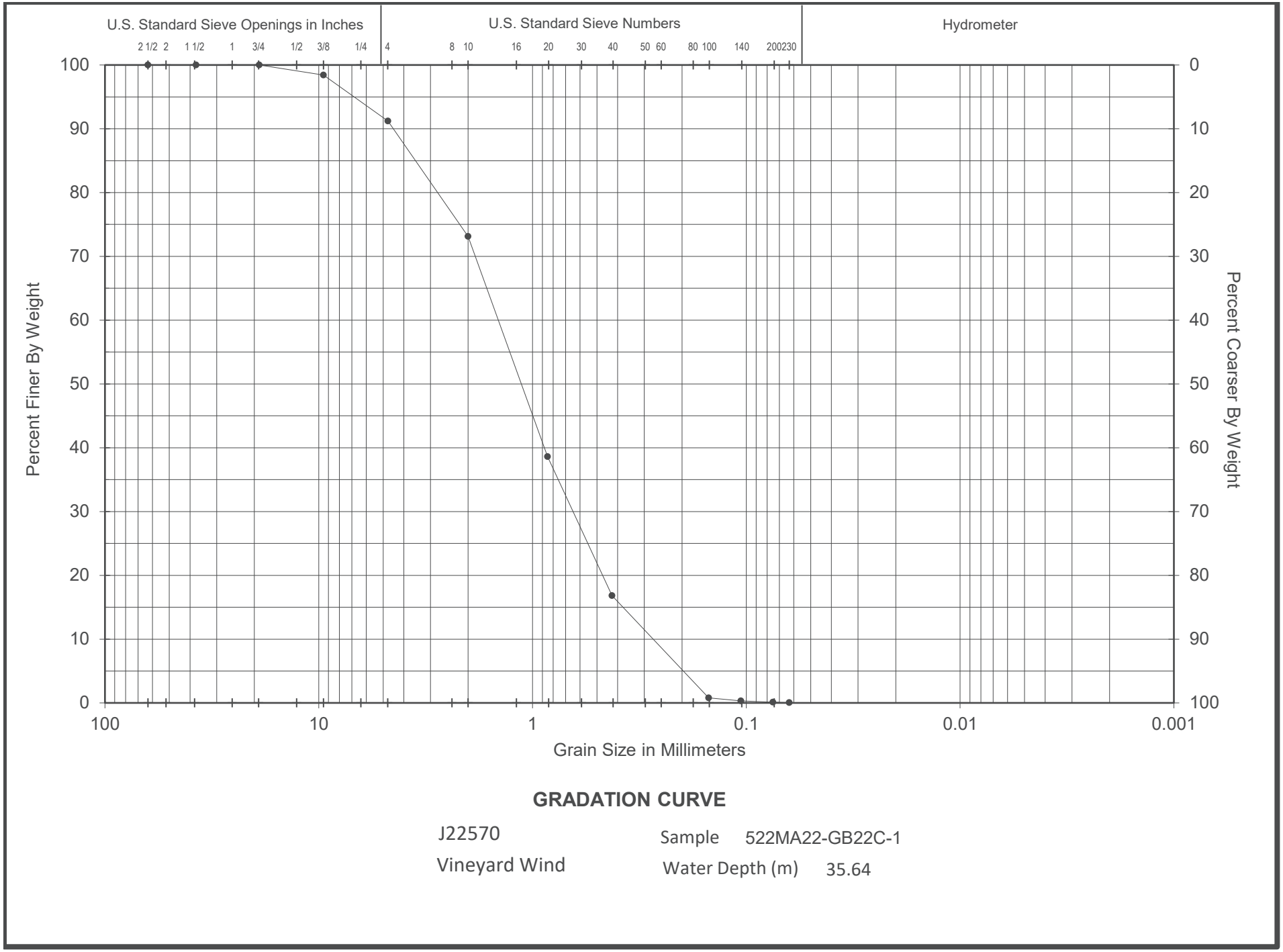
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.43	1.57	
4.75	4	91.20	8.80	
2	10	73.14	26.86	0.41
0.85	20	38.62	61.38	
0.425	40	16.82	83.18	
0.15	100	0.79	99.21	
0.106	140	0.32	99.68	
0.075	200	0.11	99.89	
0.063	230	0.06	99.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	73.14
% Passing #230	0.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	26.75
% Gravel-Sized Shell	> 2.00 mm	0.11
% Sand	0.0625 - 2.00 mm	73.08
% Silt and Clay	< 0.0625 mm	0.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	52.59
% Medium Sand	0.25 - 0.50 mm	21.79
% Fine Sand	0.0625 - 0.25 mm	16.76

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.82	0.425	0.79	0.150	0.273
D30	30	38.62	0.850	16.82	0.425	0.646
D50	50	73.14	2.000	38.62	0.850	1.127
D60	60	73.14	2.000	38.62	0.850	1.444

Uniformity Coefficient (Cu)	5.294
Coefficient of Curvature (Cc)	1.060



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB22C-1

Water Depth (m) 35.64

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB23-1
Water Depth (m)	28.6

Grain Size Data

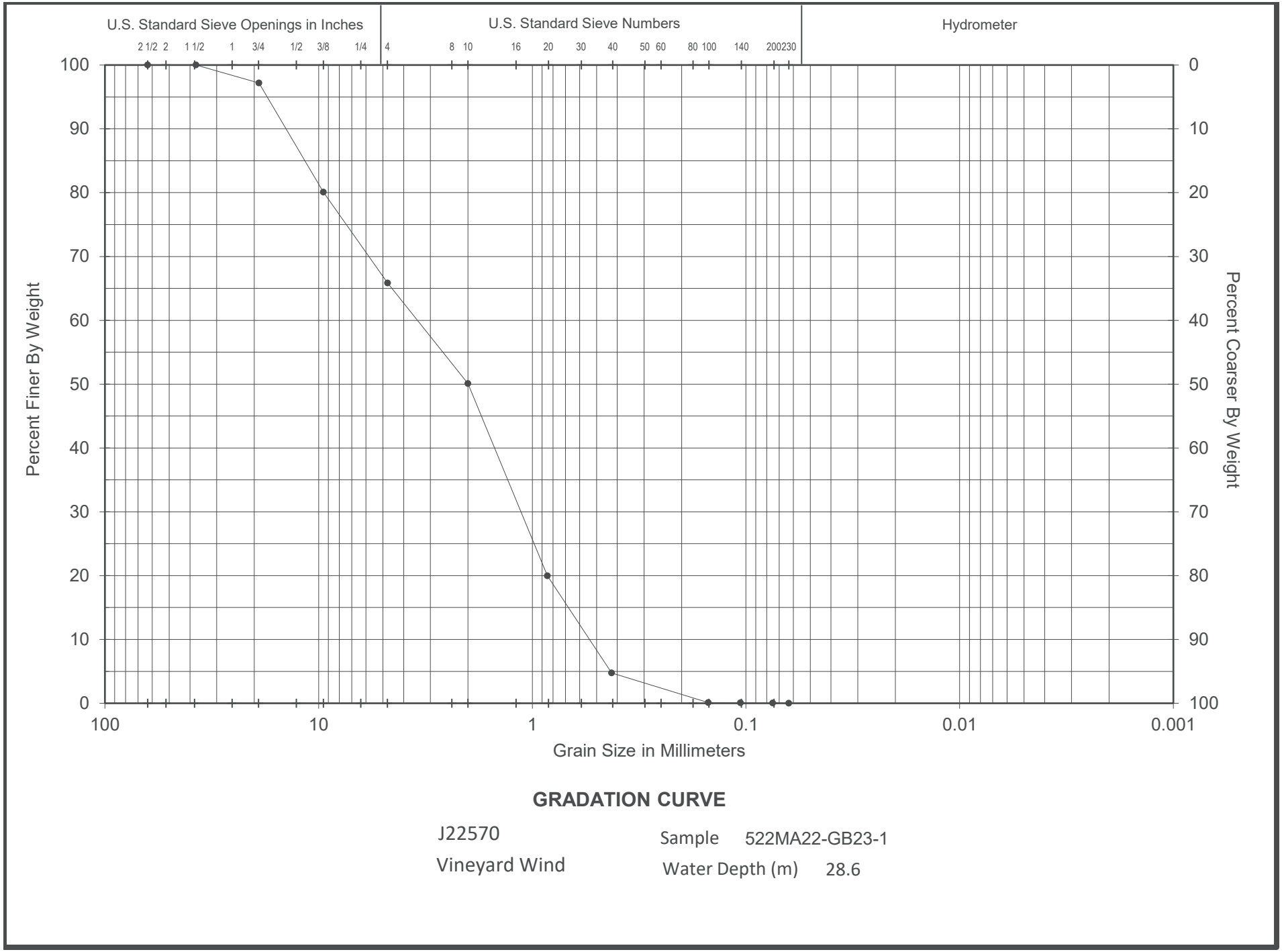
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.17	2.83	
9.5	3/8"	80.10	19.90	
4.75	4	65.83	34.17	
2	10	50.08	49.92	0.16
0.85	20	19.97	80.03	
0.425	40	4.74	95.26	
0.15	100	0.11	99.89	
0.106	140	0.06	99.94	
0.075	200	0.02	99.98	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	50.08
% Passing #230	0.01
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	49.84
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	50.06
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	45.86
% Medium Sand	0.25 - 0.50 mm	15.23
% Fine Sand	0.0625 - 0.25 mm	4.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	19.97	0.850	4.74	0.425	0.540
D30	30	50.08	2.000	19.97	0.850	1.130
D50	50	50.08	2.000	19.97	0.850	1.996
D60	60	65.83	4.750	50.08	2.000	3.448

Uniformity Coefficient (Cu)	6.386
Coefficient of Curvature (Cc)	0.686



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB23-1

Water Depth (m) 28.6

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB24A-1
Water Depth (m)	30.08

Grain Size Data

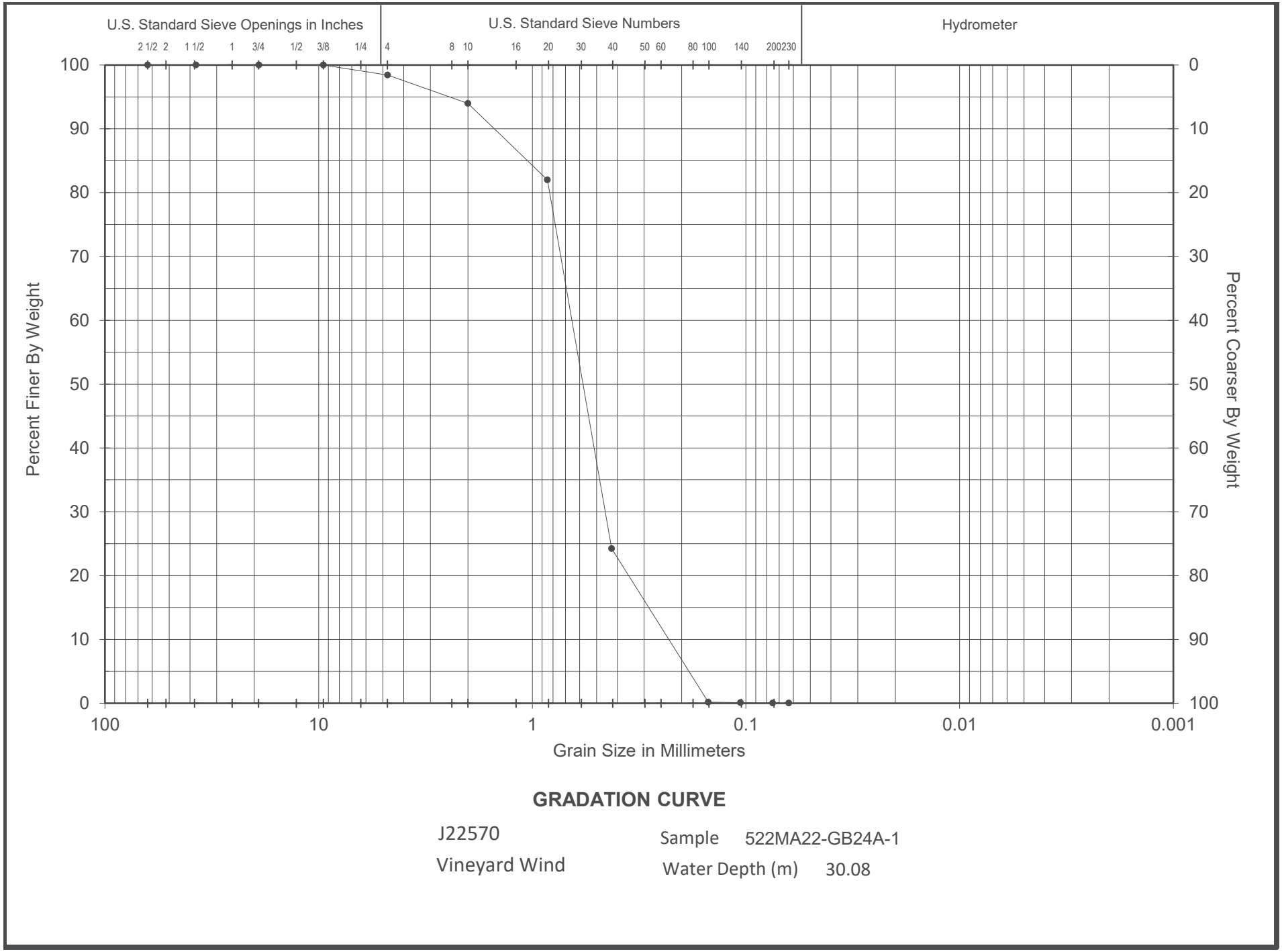
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.44	1.56	
2	10	94.00	6.00	1.37
0.85	20	82.01	17.99	
0.425	40	24.23	75.77	
0.15	100	0.18	99.82	
0.106	140	0.10	99.90	
0.075	200	0.05	99.95	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.00
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.92
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	93.97
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	16.43
% Medium Sand	0.25 - 0.50 mm	57.77
% Fine Sand	0.0625 - 0.25 mm	24.20

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.23	0.425	0.18	0.150	0.229
D30	30	82.01	0.850	24.23	0.425	0.455
D50	50	82.01	0.850	24.23	0.425	0.579
D60	60	82.01	0.850	24.23	0.425	0.653

Uniformity Coefficient (Cu)	2.845
Coefficient of Curvature (Cc)	1.385



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB24A-1

Water Depth (m) 30.08

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB24B-1
Water Depth (m)	30.08

Grain Size Data

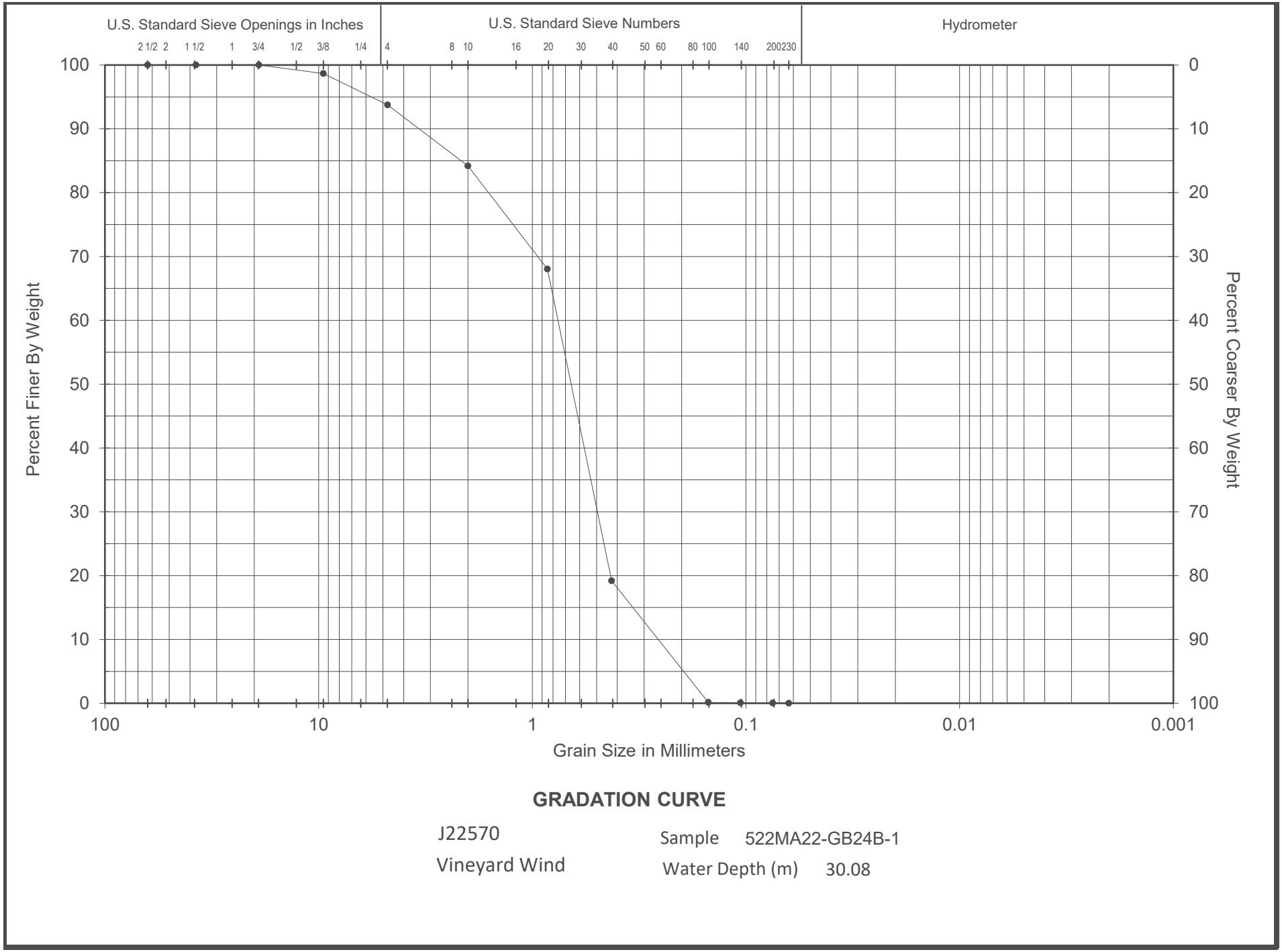
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.65	1.35	
4.75	4	93.73	6.27	
2	10	84.19	15.81	3.36
0.85	20	68.03	31.97	
0.425	40	19.20	80.80	
0.15	100	0.15	99.85	
0.106	140	0.08	99.92	
0.075	200	0.04	99.96	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	84.19
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	15.28
% Gravel-Sized Shell	> 2.00 mm	0.53
% Sand	0.0625 - 2.00 mm	84.17
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	25.71
% Medium Sand	0.25 - 0.50 mm	48.83
% Fine Sand	0.0625 - 0.25 mm	19.18

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	19.20	0.425	0.15	0.150	0.257
D30	30	68.03	0.850	19.20	0.425	0.495
D50	50	68.03	0.850	19.20	0.425	0.658
D60	60	68.03	0.850	19.20	0.425	0.758

Uniformity Coefficient (Cu)	2.951
Coefficient of Curvature (Cc)	1.259



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB24B-1

Water Depth (m) 30.08

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB24C-1
Water Depth (m)	30.07

Grain Size Data

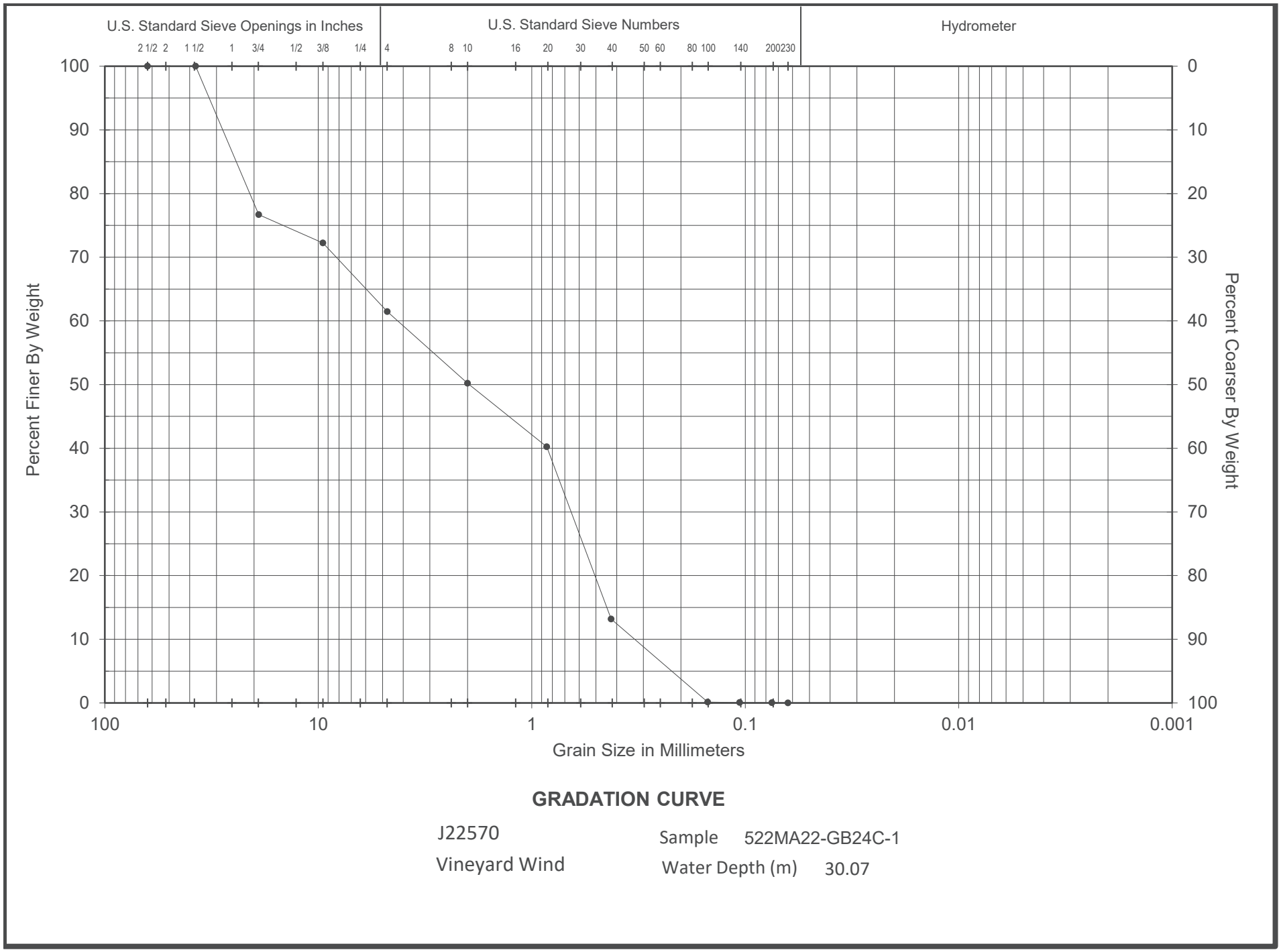
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	76.69	23.31	
9.5	3/8"	72.24	27.76	
4.75	4	61.47	38.53	
2	10	50.21	49.79	0.43
0.85	20	40.23	59.77	
0.425	40	13.17	86.83	
0.15	100	0.14	99.86	
0.106	140	0.07	99.93	
0.075	200	0.02	99.98	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	50.21
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	49.57
% Gravel-Sized Shell	> 2.00 mm	0.21
% Sand	0.0625 - 2.00 mm	50.20
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	21.25
% Medium Sand	0.25 - 0.50 mm	27.06
% Fine Sand	0.0625 - 0.25 mm	13.15

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	13.17	0.425	0.14	0.150	0.330
D30	30	40.23	0.850	13.17	0.425	0.654
D50	50	50.21	2.000	40.23	0.850	1.964
D60	60	61.47	4.750	50.21	2.000	4.242

Uniformity Coefficient (Cu)	12.855
Coefficient of Curvature (Cc)	0.306



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB24C-1

Water Depth (m) 30.07

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB25-1
Water Depth (m)	29

Grain Size Data

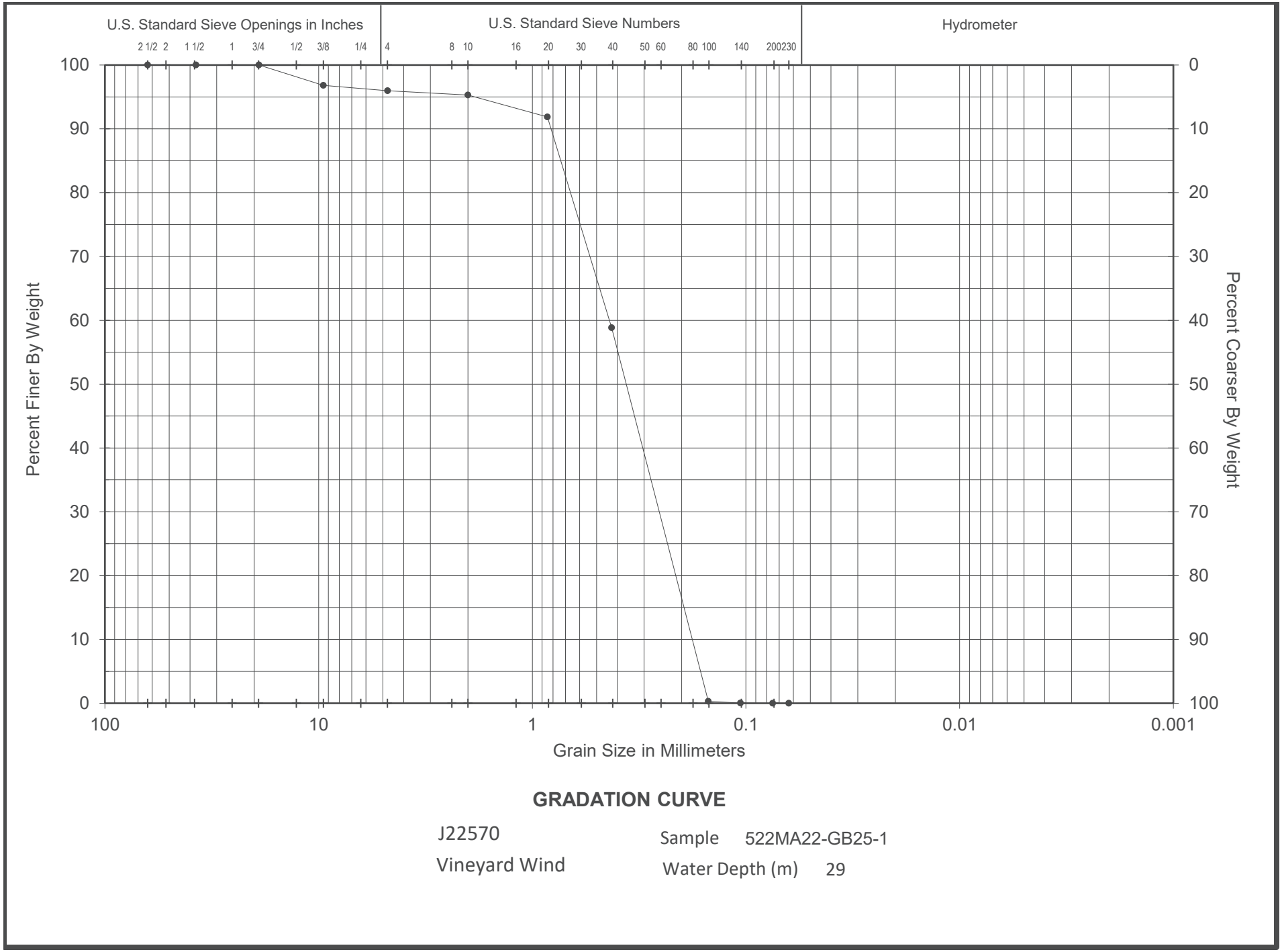
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	96.83	3.17	
4.75	4	95.97	4.03	
2	10	95.29	4.71	0.00
0.85	20	91.85	8.15	
0.425	40	58.85	41.15	
0.15	100	0.31	99.69	
0.106	140	0.05	99.95	
0.075	200	0.01	99.99	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.29
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.71
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	95.28
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.12
% Medium Sand	0.25 - 0.50 mm	33.00
% Fine Sand	0.0625 - 0.25 mm	58.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	58.85	0.425	0.31	0.150	0.178
D30	30	58.85	0.425	0.31	0.150	0.254
D50	50	58.85	0.425	0.31	0.150	0.363
D60	60	91.85	0.850	58.85	0.425	0.435

Uniformity Coefficient (Cu)	2.443
Coefficient of Curvature (Cc)	0.834



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB25-1

Water Depth (m) 29

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB26A-1
Water Depth (m)	31.86

Grain Size Data

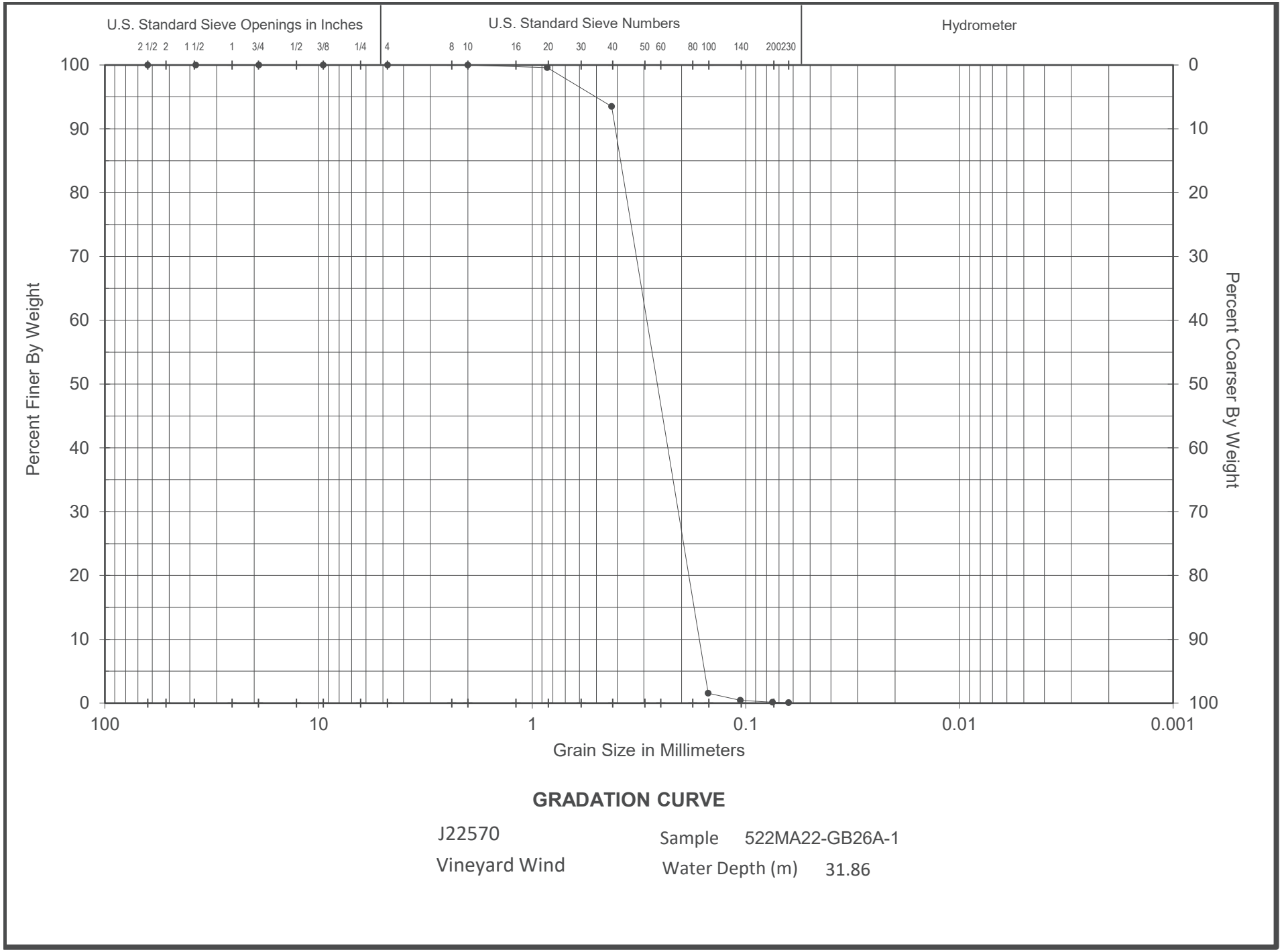
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.57	0.43	
0.425	40	93.50	6.50	
0.15	100	1.55	98.45	
0.106	140	0.44	99.56	
0.075	200	0.15	99.85	
0.063	230	0.07	99.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.92
% Silt and Clay	< 0.0625 mm	0.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.43
% Medium Sand	0.25 - 0.50 mm	6.07
% Fine Sand	0.0625 - 0.25 mm	93.43

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	93.50	0.425	1.55	0.150	0.165
D30	30	93.50	0.425	1.55	0.150	0.207
D50	50	93.50	0.425	1.55	0.150	0.260
D60	60	93.50	0.425	1.55	0.150	0.291

Uniformity Coefficient (Cu)	1.762
Coefficient of Curvature (Cc)	0.893



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB26A-1

Water Depth (m) 31.86

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB26B-1
Water Depth (m)	31.86

Grain Size Data

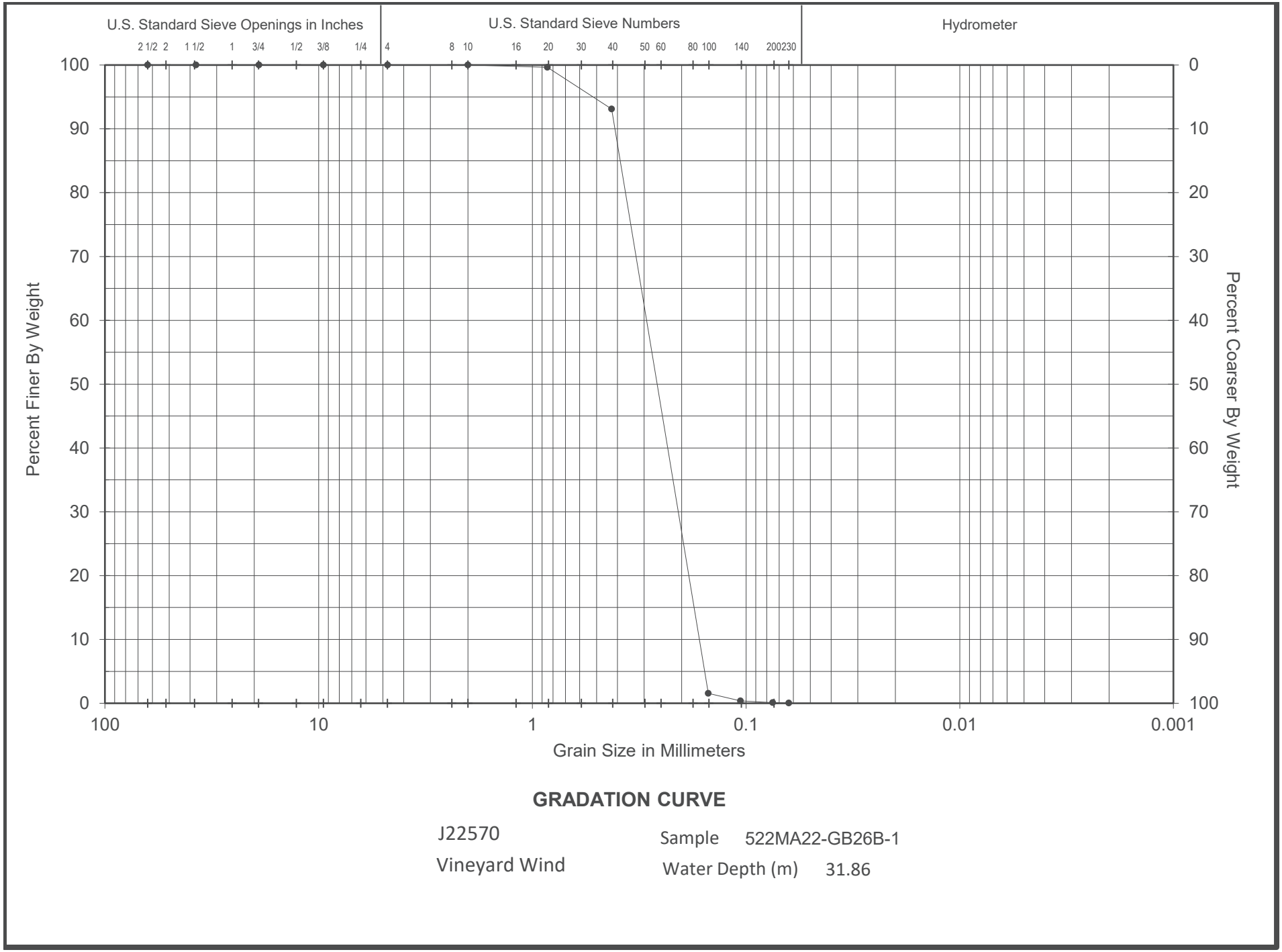
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.995	0.005	45.00
0.85	20	99.66	0.34	
0.425	40	93.10	6.90	
0.15	100	1.55	98.45	
0.106	140	0.37	99.63	
0.075	200	0.11	99.89	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.995
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.003
% Gravel-Sized Shell	> 2.00 mm	0.002
% Sand	0.0625 - 2.00 mm	99.96
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.34
% Medium Sand	0.25 - 0.50 mm	6.55
% Fine Sand	0.0625 - 0.25 mm	93.07

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	93.10	0.425	1.55	0.150	0.165
D30	30	93.10	0.425	1.55	0.150	0.207
D50	50	93.10	0.425	1.55	0.150	0.260
D60	60	93.10	0.425	1.55	0.150	0.292

Uniformity Coefficient (Cu)	1.766
Coefficient of Curvature (Cc)	0.892



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB26B-1

Water Depth (m) 31.86

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB26C-1
Water Depth (m)	31.31

Grain Size Data

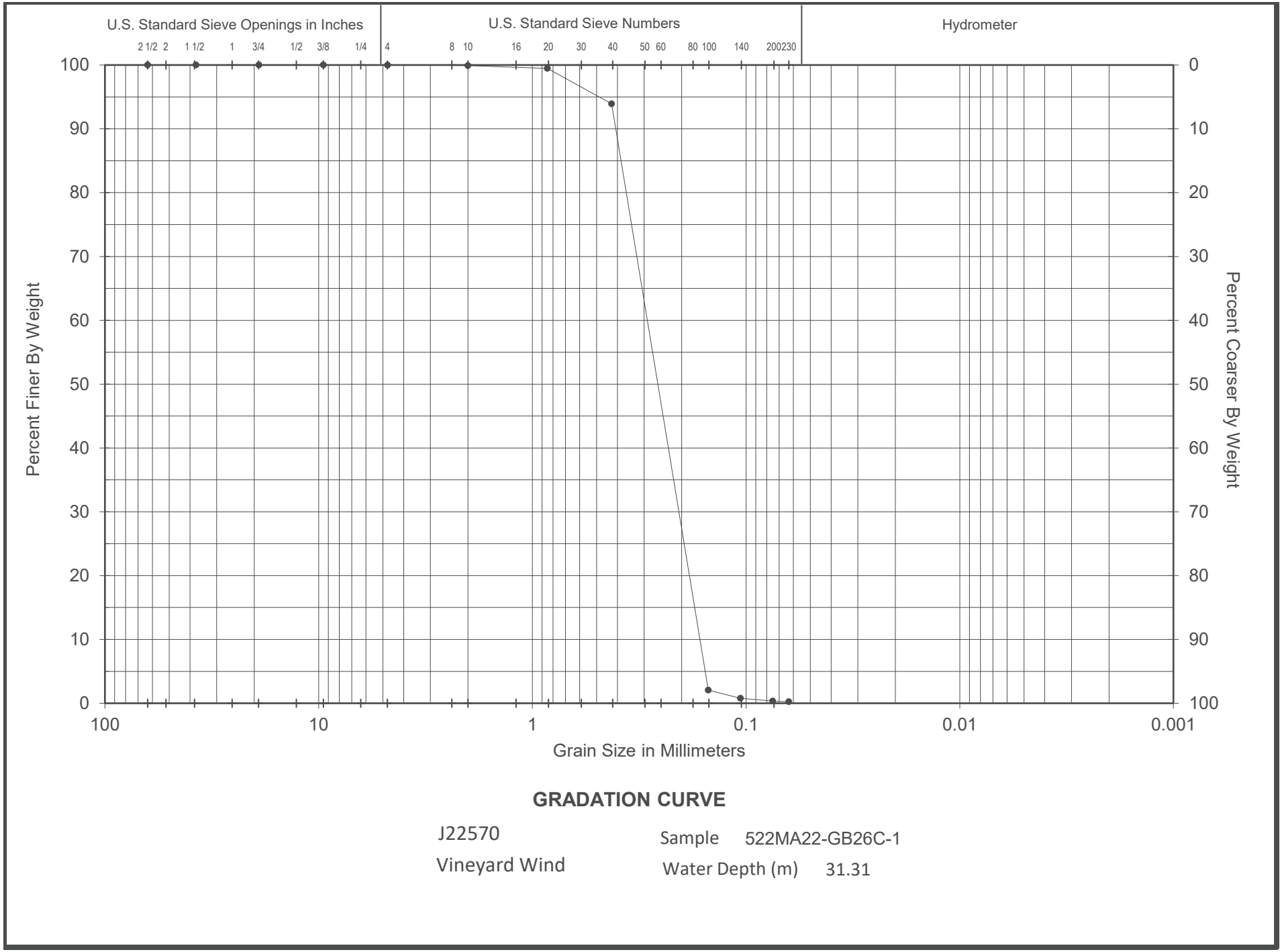
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.92	0.08	100.00
0.85	20	99.47	0.53	
0.425	40	93.90	6.10	
0.15	100	2.07	97.93	
0.106	140	0.77	99.23	
0.075	200	0.34	99.66	
0.063	230	0.25	99.75	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	0.25
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	99.67
% Silt and Clay	< 0.0625 mm	0.25
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.51
% Medium Sand	0.25 - 0.50 mm	5.57
% Fine Sand	0.0625 - 0.25 mm	93.65

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	93.90	0.425	2.07	0.150	0.164
D30	30	93.90	0.425	2.07	0.150	0.206
D50	50	93.90	0.425	2.07	0.150	0.258
D60	60	93.90	0.425	2.07	0.150	0.289

Uniformity Coefficient (Cu)	1.763
Coefficient of Curvature (Cc)	0.893



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB26C-1

Water Depth (m) 31.31

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB27-1
Water Depth (m)	29

Grain Size Data

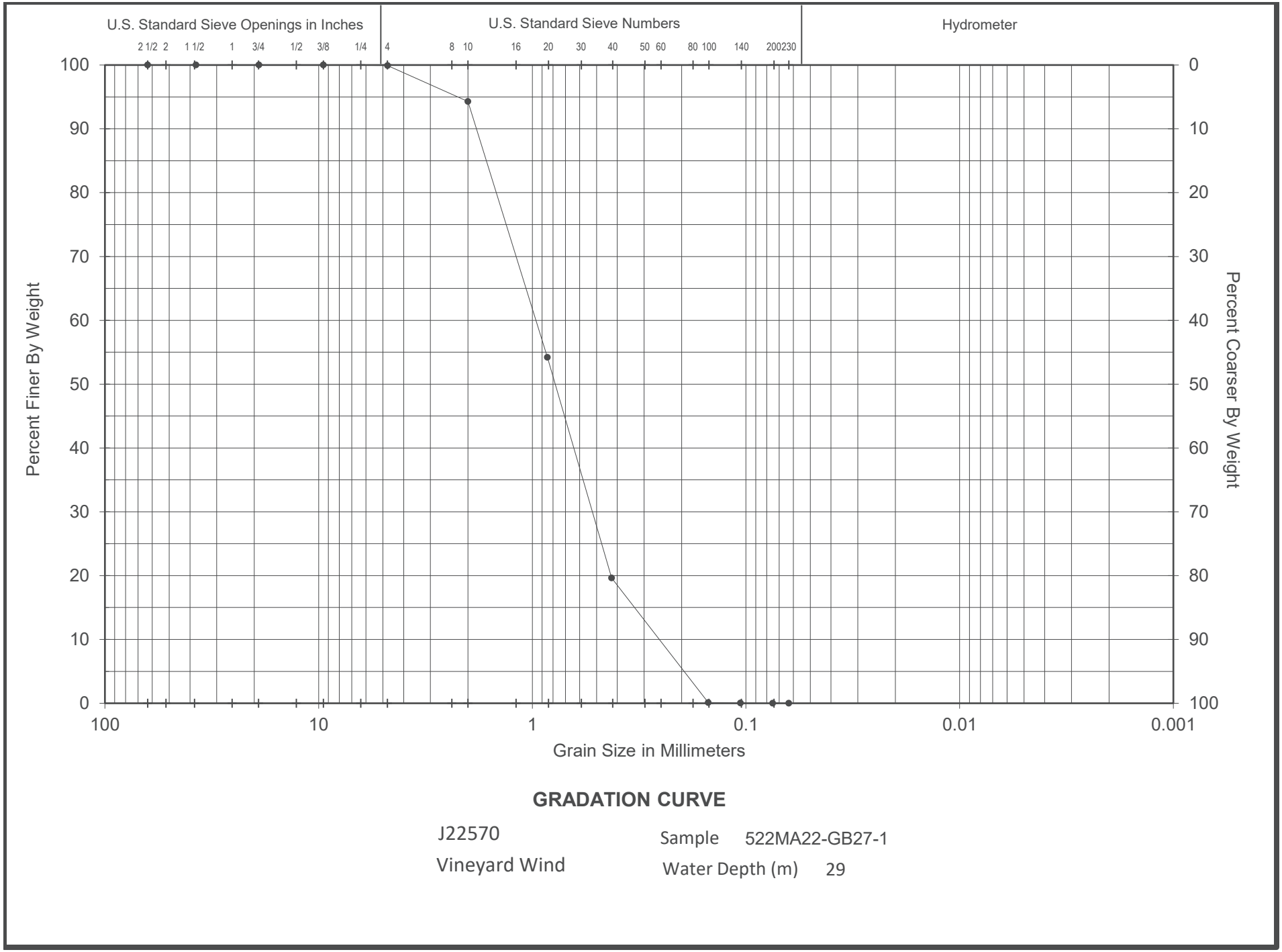
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.89	0.11	
2	10	94.30	5.70	3.79
0.85	20	54.21	45.79	
0.425	40	19.63	80.37	
0.15	100	0.10	99.90	
0.106	140	0.02	99.98	
0.075	200	0.01	99.99	
0.063	230	0.004	100.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.30
% Passing #230	0.004
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.48
% Gravel-Sized Shell	> 2.00 mm	0.22
% Sand	0.0625 - 2.00 mm	94.30
% Silt and Clay	< 0.0625 mm	0.004
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	45.68
% Medium Sand	0.25 - 0.50 mm	34.58
% Fine Sand	0.0625 - 0.25 mm	19.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.63	0.425	0.10	0.150	0.254
D30	30	54.21	0.850	19.63	0.425	0.523
D50	50	54.21	0.850	19.63	0.425	0.781
D60	60	94.30	2.000	54.21	0.850	0.962

Uniformity Coefficient (Cu)	3.782
Coefficient of Curvature (Cc)	1.119



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB27-1

Water Depth (m) 29

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB28A-1
Water Depth (m)	35.93

Grain Size Data

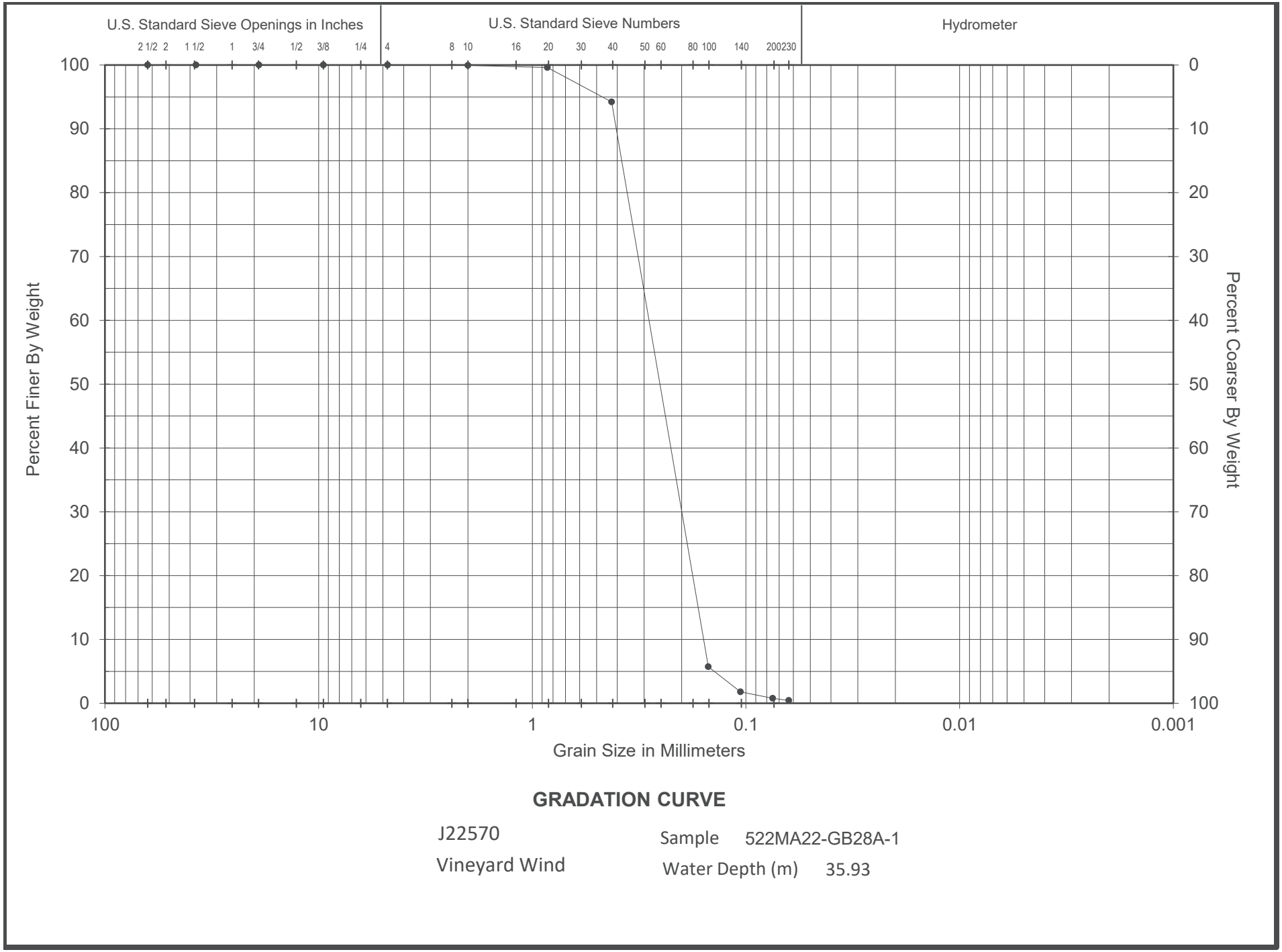
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.93	0.07	3.70
0.85	20	99.61	0.39	
0.425	40	94.23	5.77	
0.15	100	5.74	94.26	
0.106	140	1.78	98.22	
0.075	200	0.77	99.23	
0.063	230	0.43	99.57	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.93
% Passing #230	0.43
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.07
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.50
% Silt and Clay	< 0.0625 mm	0.43
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.39
% Medium Sand	0.25 - 0.50 mm	5.38
% Fine Sand	0.0625 - 0.25 mm	93.80

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	94.23	0.425	5.74	0.150	0.158
D30	30	94.23	0.425	5.74	0.150	0.200
D50	50	94.23	0.425	5.74	0.150	0.253
D60	60	94.23	0.425	5.74	0.150	0.284

Uniformity Coefficient (Cu)	1.801
Coefficient of Curvature (Cc)	0.889



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB28A-1

Water Depth (m) 35.93

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB28B-1
Water Depth (m)	35.39

Grain Size Data

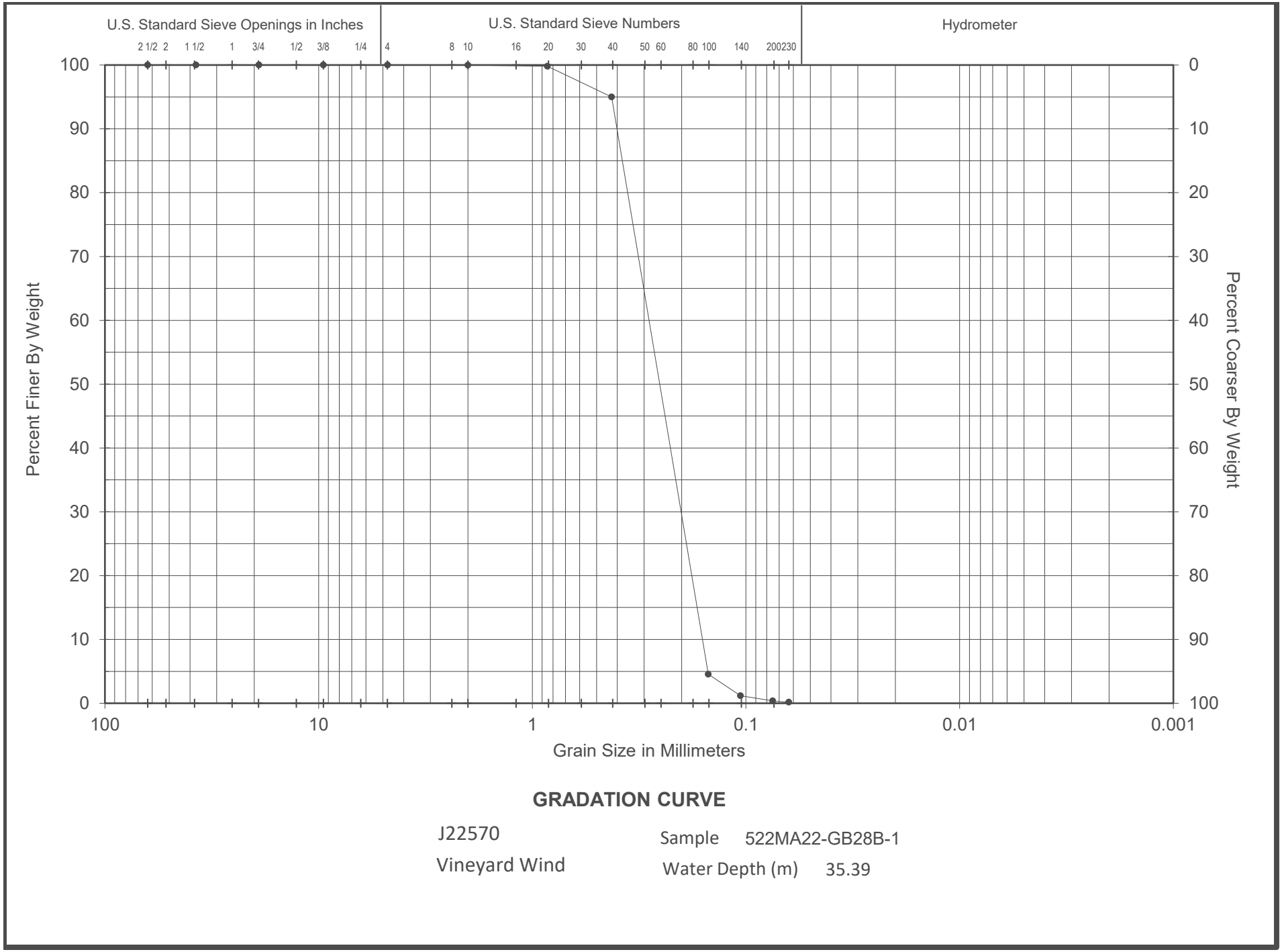
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.80	0.20	
0.425	40	94.98	5.02	
0.15	100	4.56	95.44	
0.106	140	1.17	98.83	
0.075	200	0.38	99.62	
0.063	230	0.16	99.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.83
% Silt and Clay	< 0.0625 mm	0.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.20
% Medium Sand	0.25 - 0.50 mm	4.82
% Fine Sand	0.0625 - 0.25 mm	94.82

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	94.98	0.425	4.56	0.150	0.160
D30	30	94.98	0.425	4.56	0.150	0.201
D50	50	94.98	0.425	4.56	0.150	0.253
D60	60	94.98	0.425	4.56	0.150	0.284

Uniformity Coefficient (Cu)	1.779
Coefficient of Curvature (Cc)	0.891



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB28B-1

Water Depth (m) 35.39

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB28C-1
Water Depth (m)	35.51

Grain Size Data

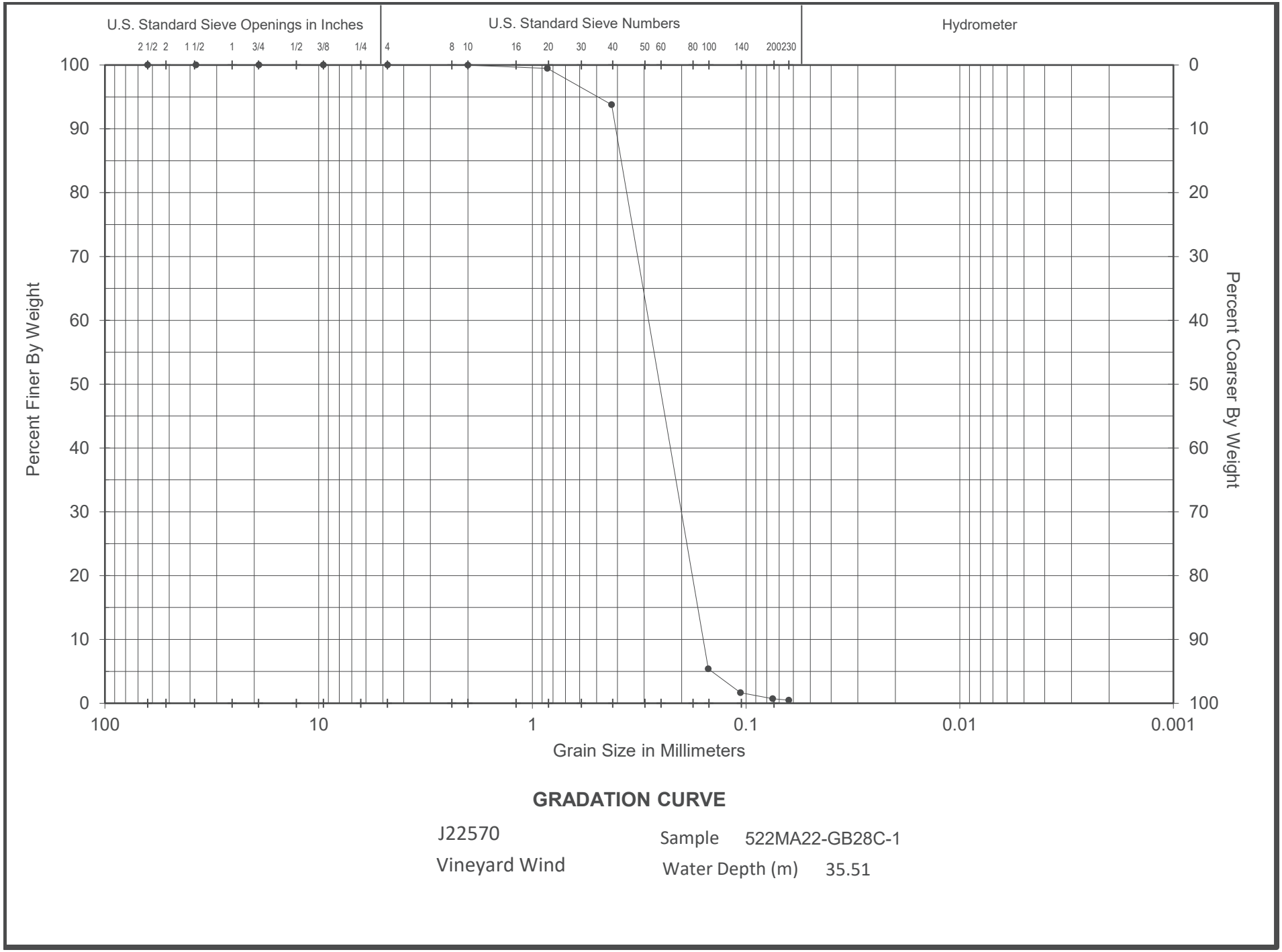
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	100.00
0.85	20	99.49	0.51	
0.425	40	93.78	6.22	
0.15	100	5.40	94.60	
0.106	140	1.65	98.35	
0.075	200	0.71	99.29	
0.063	230	0.48	99.52	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	0.48
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	99.50
% Silt and Clay	< 0.0625 mm	0.48
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.51
% Medium Sand	0.25 - 0.50 mm	5.71
% Fine Sand	0.0625 - 0.25 mm	93.30

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	93.78	0.425	5.40	0.150	0.158
D30	30	93.78	0.425	5.40	0.150	0.200
D50	50	93.78	0.425	5.40	0.150	0.254
D60	60	93.78	0.425	5.40	0.150	0.285

Uniformity Coefficient (Cu)	1.802
Coefficient of Curvature (Cc)	0.889



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB28C-1

Water Depth (m) 35.51

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB29-1
Water Depth (m)	35.55

Grain Size Data

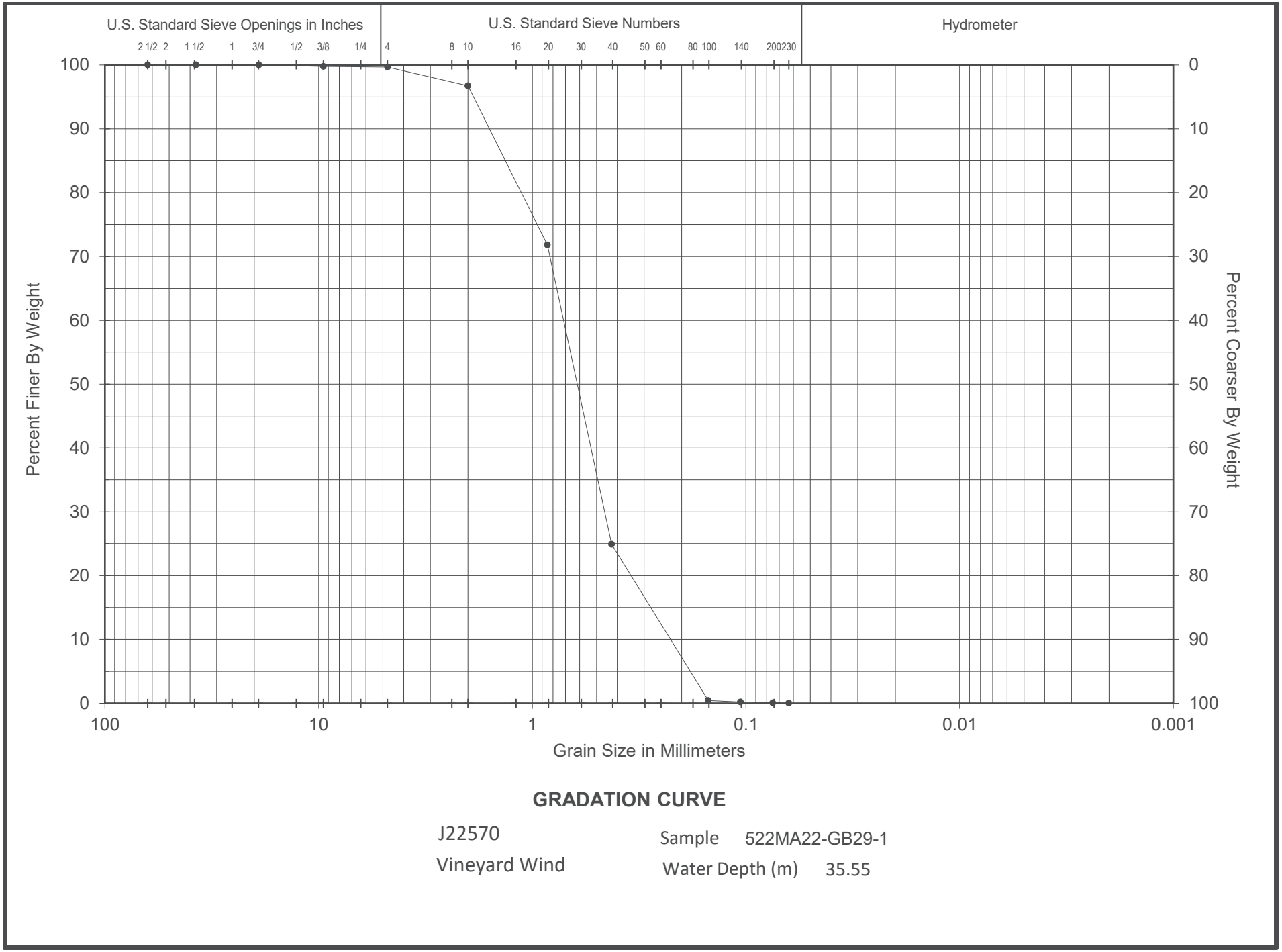
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.77	0.23	
4.75	4	99.67	0.33	
2	10	96.74	3.26	20.96
0.85	20	71.81	28.19	
0.425	40	24.90	75.10	
0.15	100	0.44	99.56	
0.106	140	0.21	99.79	
0.075	200	0.07	99.93	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.74
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.58
% Gravel-Sized Shell	> 2.00 mm	0.68
% Sand	0.0625 - 2.00 mm	96.72
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.86
% Medium Sand	0.25 - 0.50 mm	46.91
% Fine Sand	0.0625 - 0.25 mm	24.87

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.90	0.425	0.44	0.150	0.225
D30	30	71.81	0.850	24.90	0.425	0.458
D50	50	71.81	0.850	24.90	0.425	0.616
D60	60	71.81	0.850	24.90	0.425	0.714

Uniformity Coefficient (Cu)	3.168
Coefficient of Curvature (Cc)	1.305



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB29-1

Water Depth (m) 35.55

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB30A-1
Water Depth (m)	36.01

Grain Size Data

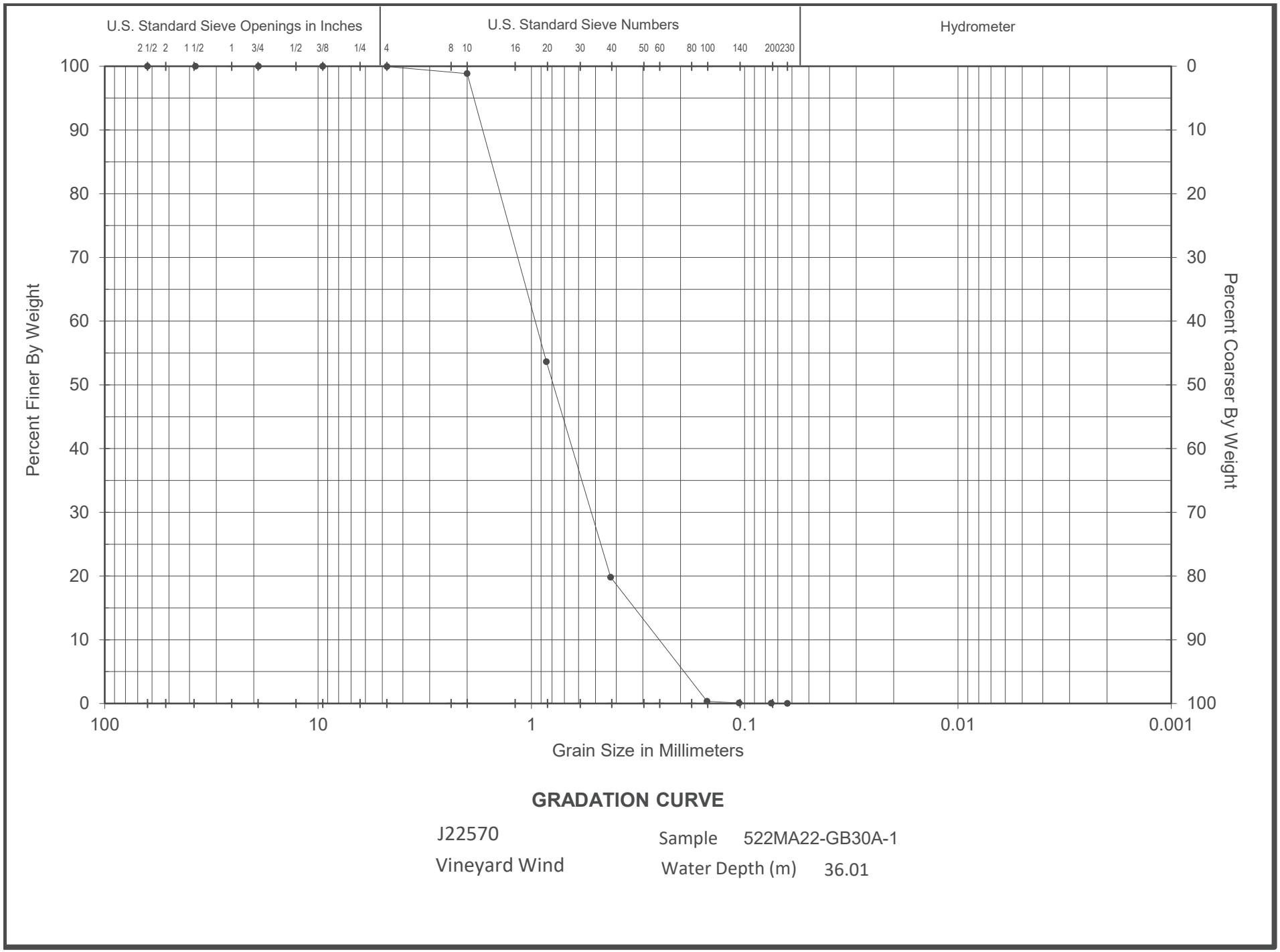
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.96	0.04	
2	10	98.86	1.14	9.85
0.85	20	53.63	46.37	
0.425	40	19.79	80.21	
0.15	100	0.35	99.65	
0.106	140	0.09	99.91	
0.075	200	0.04	99.96	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.86
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.03
% Gravel-Sized Shell	> 2.00 mm	0.11
% Sand	0.0625 - 2.00 mm	98.83
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	46.33
% Medium Sand	0.25 - 0.50 mm	33.84
% Fine Sand	0.0625 - 0.25 mm	19.77

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.79	0.425	0.35	0.150	0.252
D30	30	53.63	0.850	19.79	0.425	0.524
D50	50	53.63	0.850	19.79	0.425	0.789
D60	60	98.86	2.000	53.63	0.850	0.959

Uniformity Coefficient (Cu)	3.812
Coefficient of Curvature (Cc)	1.138



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB30A-1

Water Depth (m) 36.01

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB30B-1
Water Depth (m)	36.13

Grain Size Data

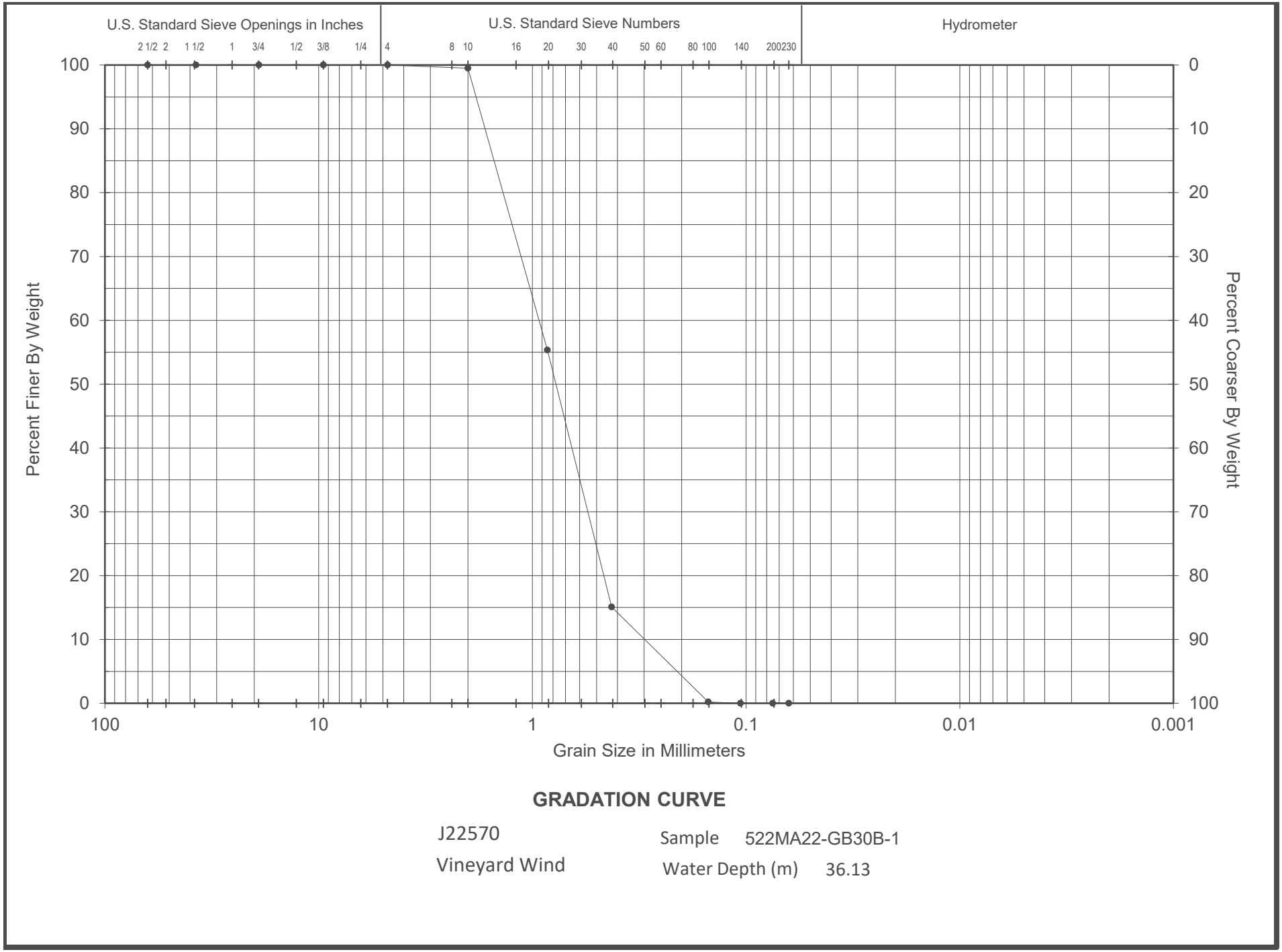
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.50	0.50	10.80
0.85	20	55.34	44.66	
0.425	40	15.09	84.91	
0.15	100	0.19	99.81	
0.106	140	0.02	99.98	
0.075	200	0.01	99.99	
0.063	230	0.005	100.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.50
% Passing #230	0.005
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.45
% Gravel-Sized Shell	> 2.00 mm	0.05
% Sand	0.0625 - 2.00 mm	99.49
% Silt and Clay	< 0.0625 mm	0.005
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	44.66
% Medium Sand	0.25 - 0.50 mm	40.26
% Fine Sand	0.0625 - 0.25 mm	15.08

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.09	0.425	0.19	0.150	0.298
D30	30	55.34	0.850	15.09	0.425	0.549
D50	50	55.34	0.850	15.09	0.425	0.775
D60	60	99.50	2.000	55.34	0.850	0.930

Uniformity Coefficient (Cu)	3.123
Coefficient of Curvature (Cc)	1.090



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB30B-1

Water Depth (m) 36.13

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB30C-1
Water Depth (m)	36

Grain Size Data

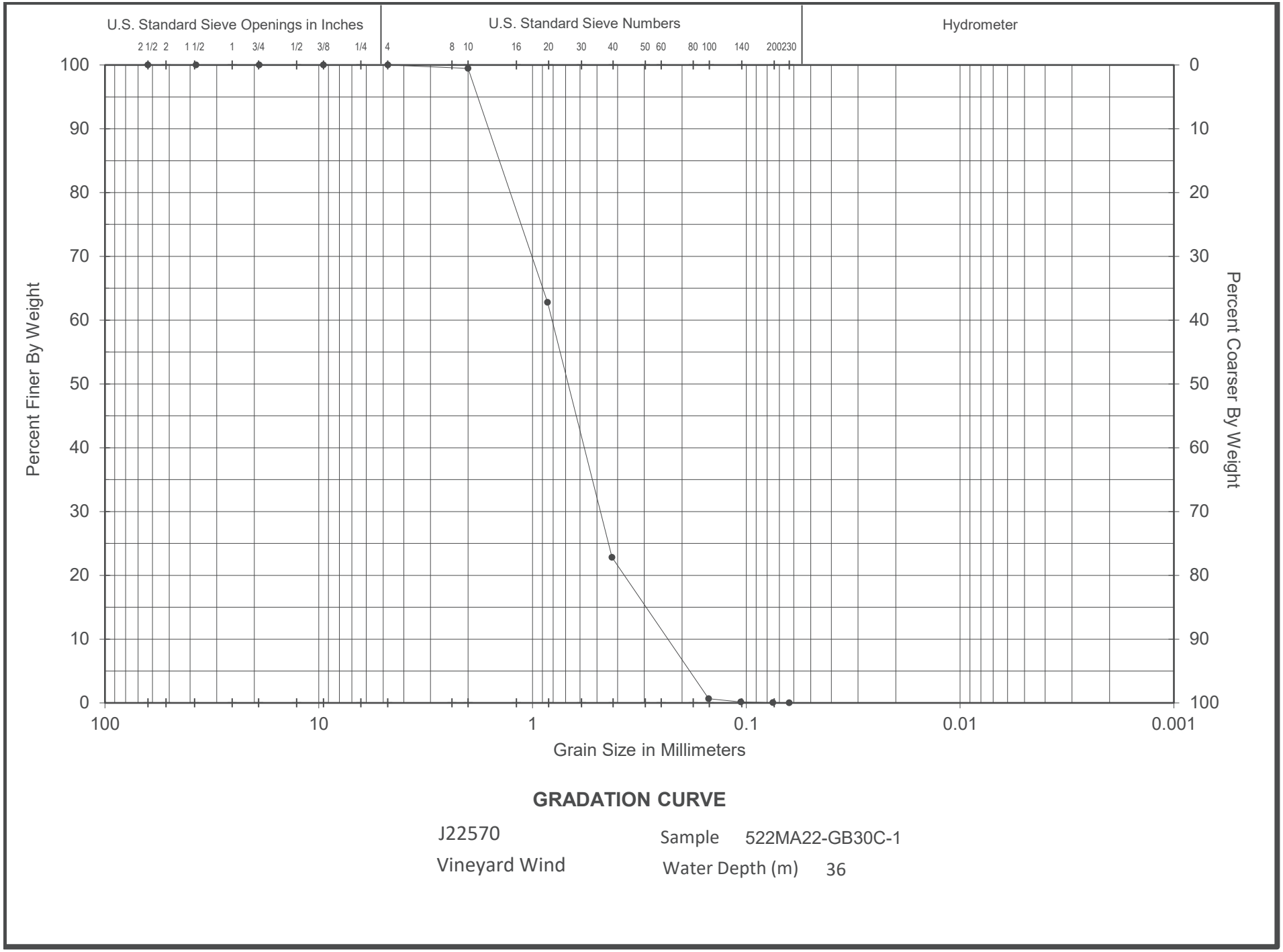
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.46	0.54	25.11
0.85	20	62.80	37.20	
0.425	40	22.81	77.19	
0.15	100	0.65	99.35	
0.106	140	0.16	99.84	
0.075	200	0.04	99.96	
0.063	230	0.00	100.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.46
% Passing #230	0.00
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.40
% Gravel-Sized Shell	> 2.00 mm	0.14
% Sand	0.0625 - 2.00 mm	99.46
% Silt and Clay	< 0.0625 mm	0.00
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	37.20
% Medium Sand	0.25 - 0.50 mm	40.00
% Fine Sand	0.0625 - 0.25 mm	22.81

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.81	0.425	0.65	0.150	0.233
D30	30	62.80	0.850	22.81	0.425	0.481
D50	50	62.80	0.850	22.81	0.425	0.681
D60	60	62.80	0.850	22.81	0.425	0.810

Uniformity Coefficient (Cu)	3.478
Coefficient of Curvature (Cc)	1.230



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB30C-1

Water Depth (m) 36

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB31-1
Water Depth (m)	38.07

Grain Size Data

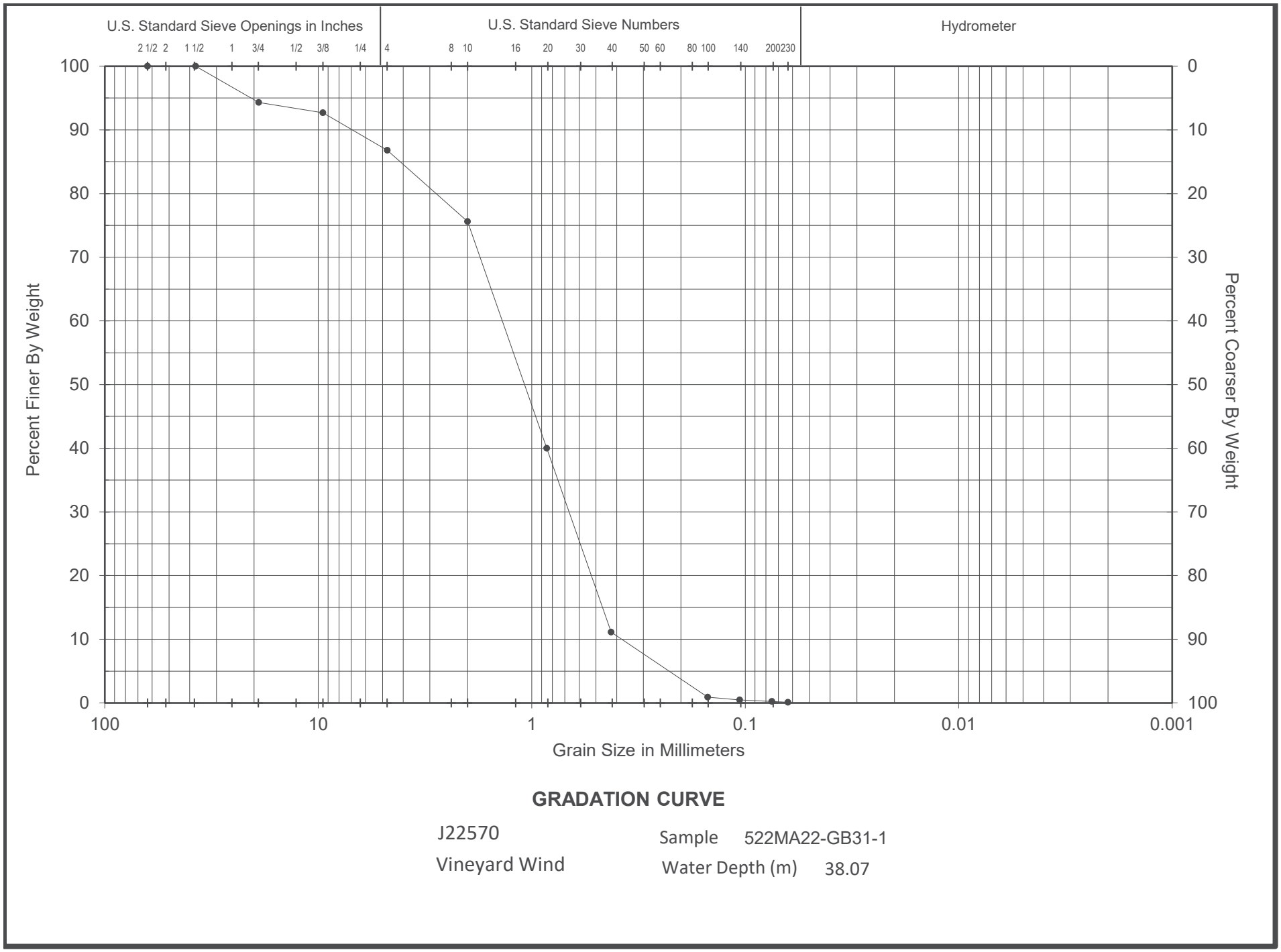
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.30	5.70	
9.5	3/8"	92.70	7.30	
4.75	4	86.81	13.19	
2	10	75.61	24.39	0.00
0.85	20	39.99	60.01	
0.425	40	11.11	88.89	
0.15	100	0.92	99.08	
0.106	140	0.49	99.51	
0.075	200	0.24	99.76	
0.063	230	0.11	99.89	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	75.61
% Passing #230	0.11
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	24.39
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	75.50
% Silt and Clay	< 0.0625 mm	0.11
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	46.82
% Medium Sand	0.25 - 0.50 mm	28.87
% Fine Sand	0.0625 - 0.25 mm	11.00

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.11	0.425	0.92	0.150	0.379
D30	30	39.99	0.850	11.11	0.425	0.669
D50	50	75.61	2.000	39.99	0.850	1.081
D60	60	75.61	2.000	39.99	0.850	1.375

Uniformity Coefficient (Cu)	3.624
Coefficient of Curvature (Cc)	0.858



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB31-1

Water Depth (m) 38.07

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB32A-1
Water Depth (m)	38

Grain Size Data

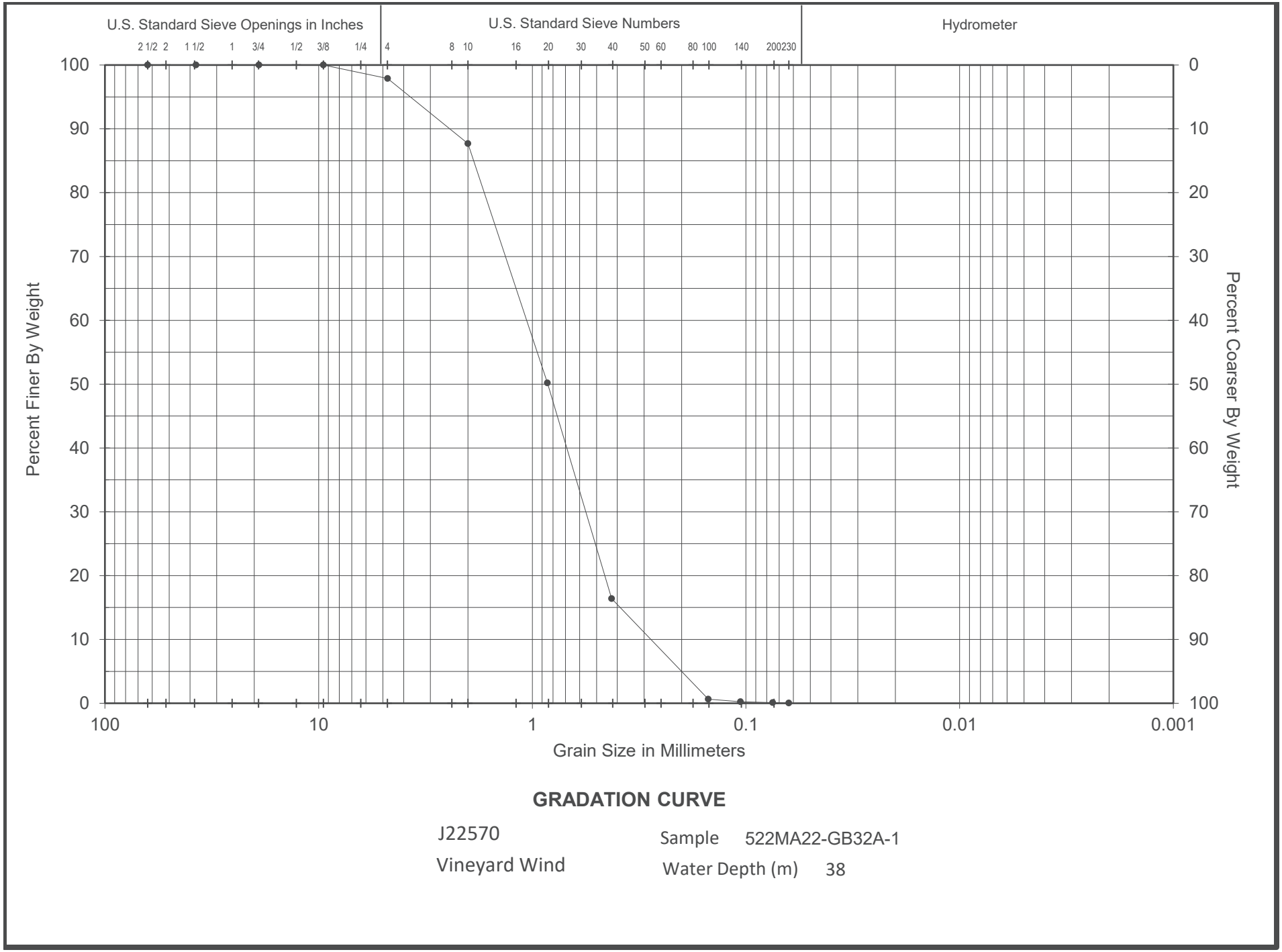
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	97.90	2.10	
2	10	87.69	12.31	0.13
0.85	20	50.19	49.81	
0.425	40	16.41	83.59	
0.15	100	0.66	99.34	
0.106	140	0.25	99.75	
0.075	200	0.09	99.91	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	87.69
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	12.29
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	87.66
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	47.71
% Medium Sand	0.25 - 0.50 mm	33.78
% Fine Sand	0.0625 - 0.25 mm	16.38

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.41	0.425	0.66	0.150	0.278
D30	30	50.19	0.850	16.41	0.425	0.562
D50	50	50.19	0.850	16.41	0.425	0.847
D60	60	87.69	2.000	50.19	0.850	1.063

Uniformity Coefficient (Cu)	3.822
Coefficient of Curvature (Cc)	1.067



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB32A-1

Water Depth (m) 38

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB32B-1
Water Depth (m)	38.15

Grain Size Data

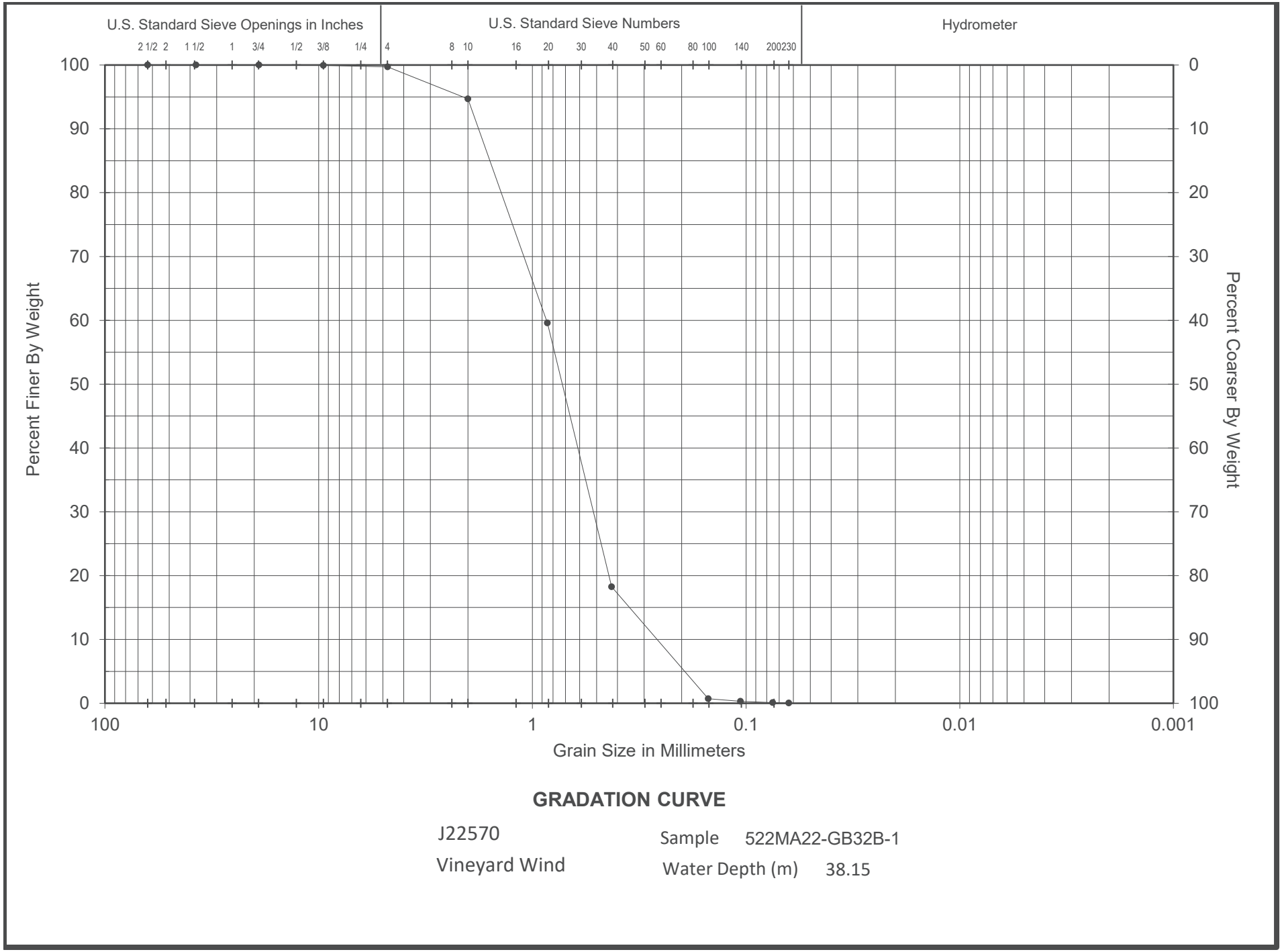
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.93	0.07	
4.75	4	99.70	0.30	
2	10	94.69	5.31	2.35
0.85	20	59.60	40.40	
0.425	40	18.24	81.76	
0.15	100	0.70	99.30	
0.106	140	0.31	99.69	
0.075	200	0.12	99.88	
0.063	230	0.04	99.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.69
% Passing #230	0.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.19
% Gravel-Sized Shell	> 2.00 mm	0.12
% Sand	0.0625 - 2.00 mm	94.65
% Silt and Clay	< 0.0625 mm	0.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	40.10
% Medium Sand	0.25 - 0.50 mm	41.36
% Fine Sand	0.0625 - 0.25 mm	18.20

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.24	0.425	0.70	0.150	0.261
D30	30	59.60	0.850	18.24	0.425	0.518
D50	50	59.60	0.850	18.24	0.425	0.724
D60	60	94.69	2.000	59.60	0.850	0.858

Uniformity Coefficient (Cu)	3.294
Coefficient of Curvature (Cc)	1.198



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB32B-1

Water Depth (m) 38.15

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB32C-1
Water Depth (m)	38

Grain Size Data

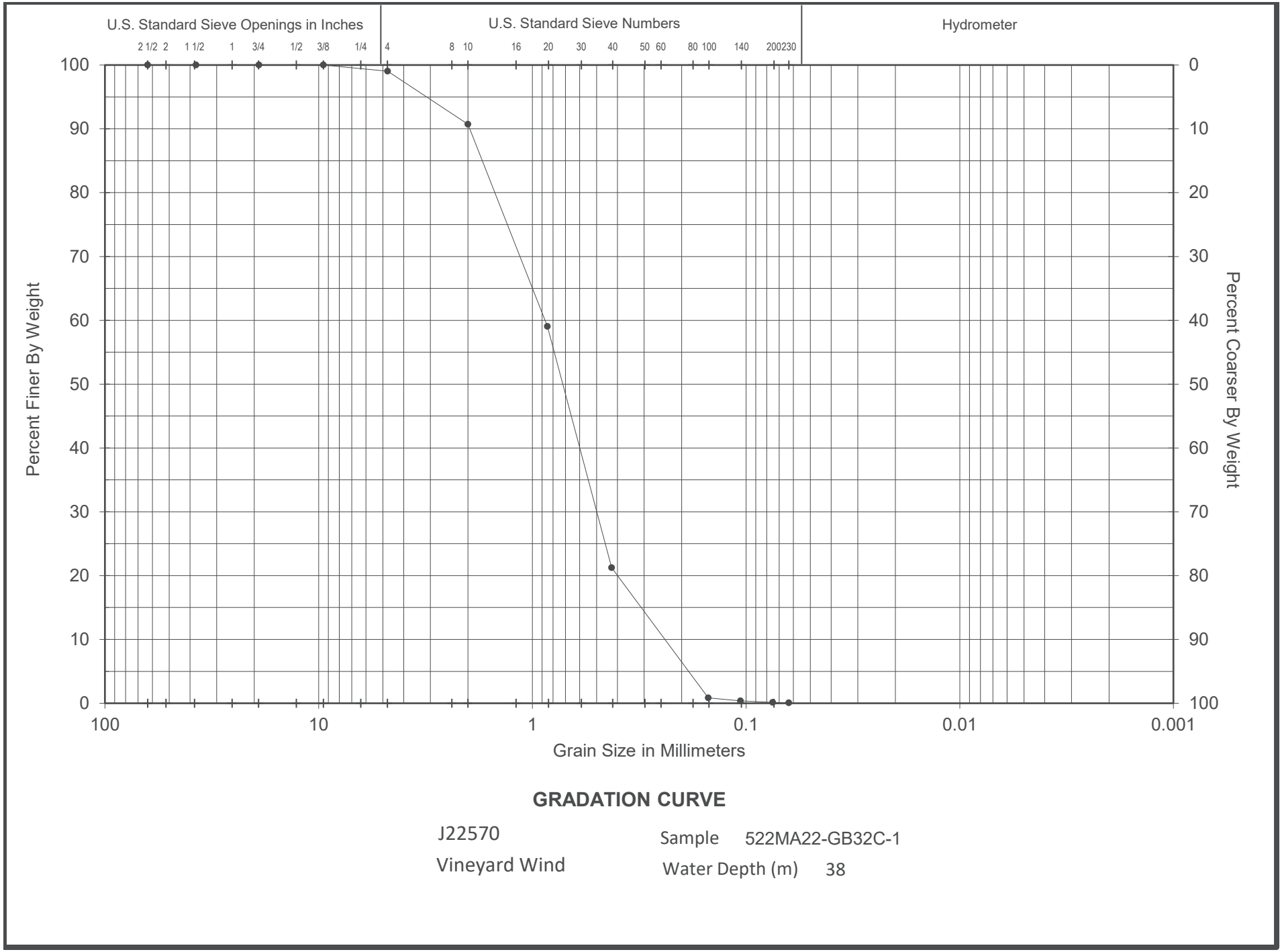
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.05	0.95	
2	10	90.73	9.27	0.03
0.85	20	59.06	40.94	
0.425	40	21.26	78.74	
0.15	100	0.85	99.15	
0.106	140	0.37	99.63	
0.075	200	0.15	99.85	
0.063	230	0.07	99.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	90.73
% Passing #230	0.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	9.26
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	90.66
% Silt and Clay	< 0.0625 mm	0.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	39.99
% Medium Sand	0.25 - 0.50 mm	37.80
% Fine Sand	0.0625 - 0.25 mm	21.18

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.26	0.425	0.85	0.150	0.239
D30	30	59.06	0.850	21.26	0.425	0.499
D50	50	59.06	0.850	21.26	0.425	0.720
D60	60	90.73	2.000	59.06	0.850	0.872

Uniformity Coefficient (Cu)	3.644
Coefficient of Curvature (Cc)	1.193



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB32C-1

Water Depth (m) 38

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB33-1
Water Depth (m)	39.65

Grain Size Data

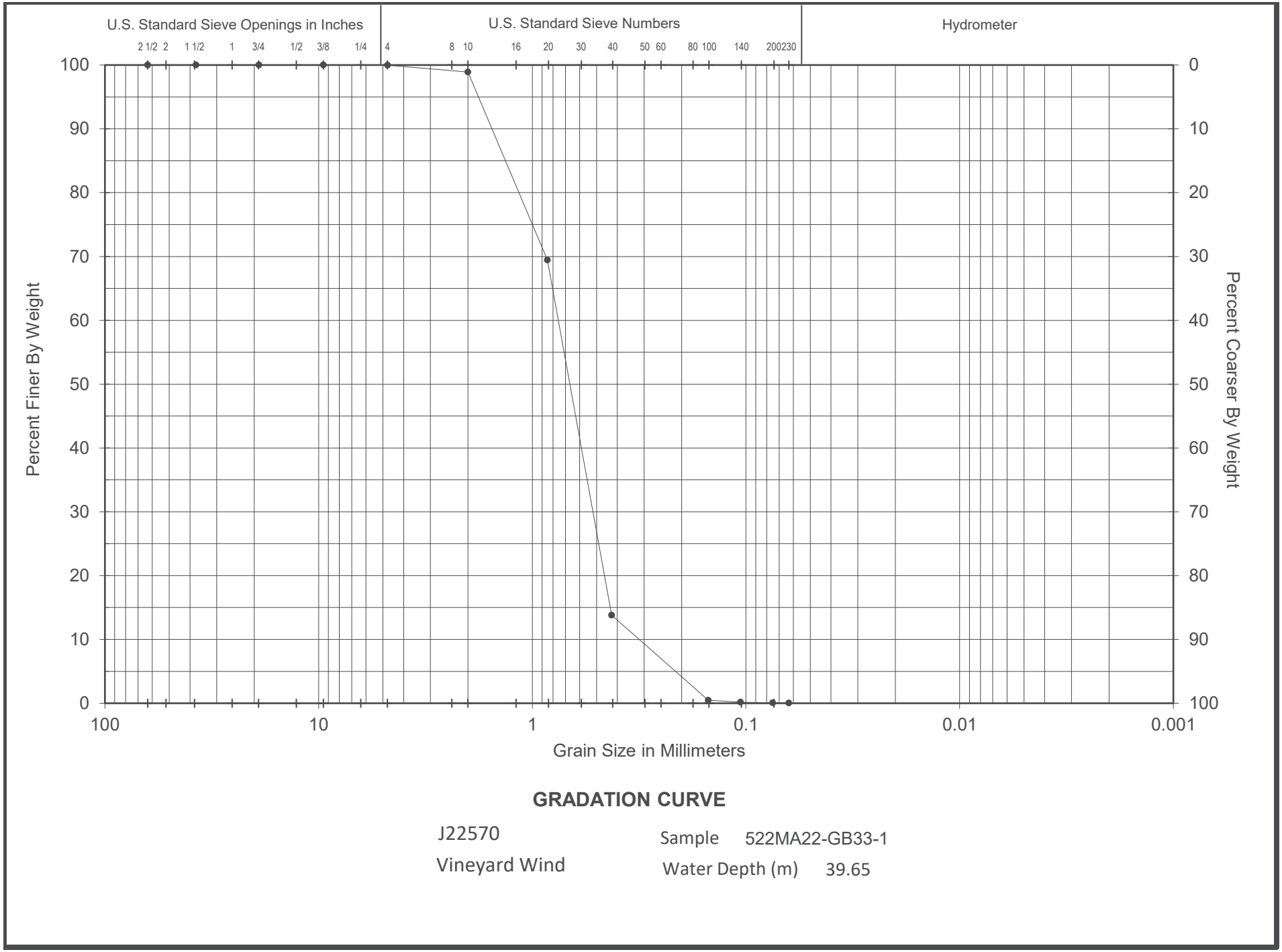
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	98.89	1.11	5.69
0.85	20	69.45	30.55	
0.425	40	13.82	86.18	
0.15	100	0.47	99.53	
0.106	140	0.17	99.83	
0.075	200	0.07	99.93	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.89
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.04
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	98.86
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	30.52
% Medium Sand	0.25 - 0.50 mm	55.63
% Fine Sand	0.0625 - 0.25 mm	13.79

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.82	0.425	0.47	0.150	0.315
D30	30	69.45	0.850	13.82	0.425	0.520
D50	50	69.45	0.850	13.82	0.425	0.667
D60	60	69.45	0.850	13.82	0.425	0.756

Uniformity Coefficient (Cu)	2.395
Coefficient of Curvature (Cc)	1.134



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB33-1

Water Depth (m) 39.65

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB34A-1
Water Depth (m)	42.06

Grain Size Data

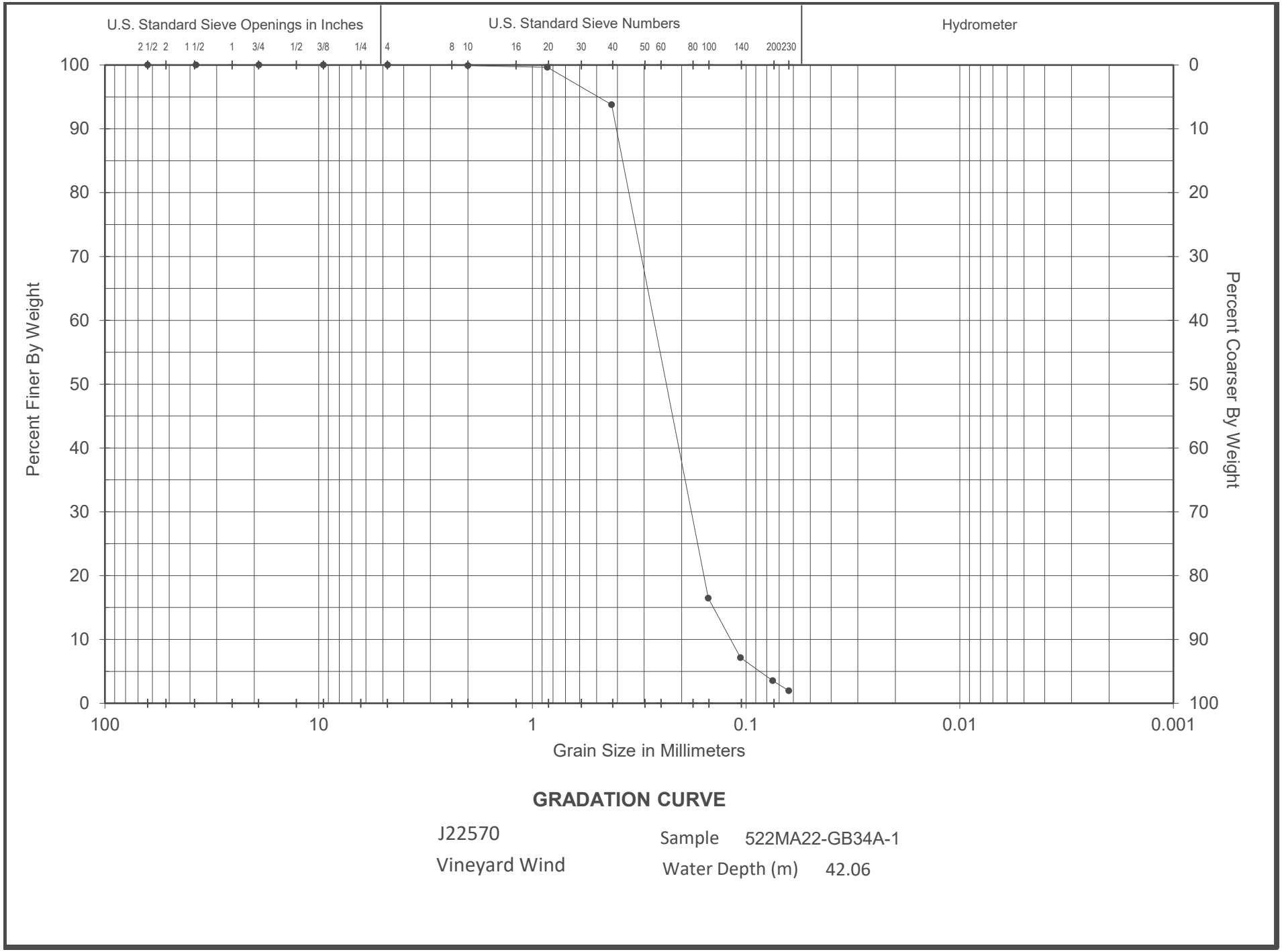
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.92	0.08	100.00
0.85	20	99.64	0.36	
0.425	40	93.78	6.22	
0.15	100	16.46	83.54	
0.106	140	7.13	92.87	
0.075	200	3.54	96.46	
0.063	230	1.96	98.04	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	1.96
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	97.96
% Silt and Clay	< 0.0625 mm	1.96
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.36
% Medium Sand	0.25 - 0.50 mm	5.86
% Fine Sand	0.0625 - 0.25 mm	91.82

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.46	0.150	7.13	0.106	0.118
D30	30	93.78	0.425	16.46	0.150	0.180
D50	50	93.78	0.425	16.46	0.150	0.236
D60	60	93.78	0.425	16.46	0.150	0.270

Uniformity Coefficient (Cu)	2.286
Coefficient of Curvature (Cc)	1.019



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB34A-1

Water Depth (m) 42.06

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB34B-1
Water Depth (m)	41.89

Grain Size Data

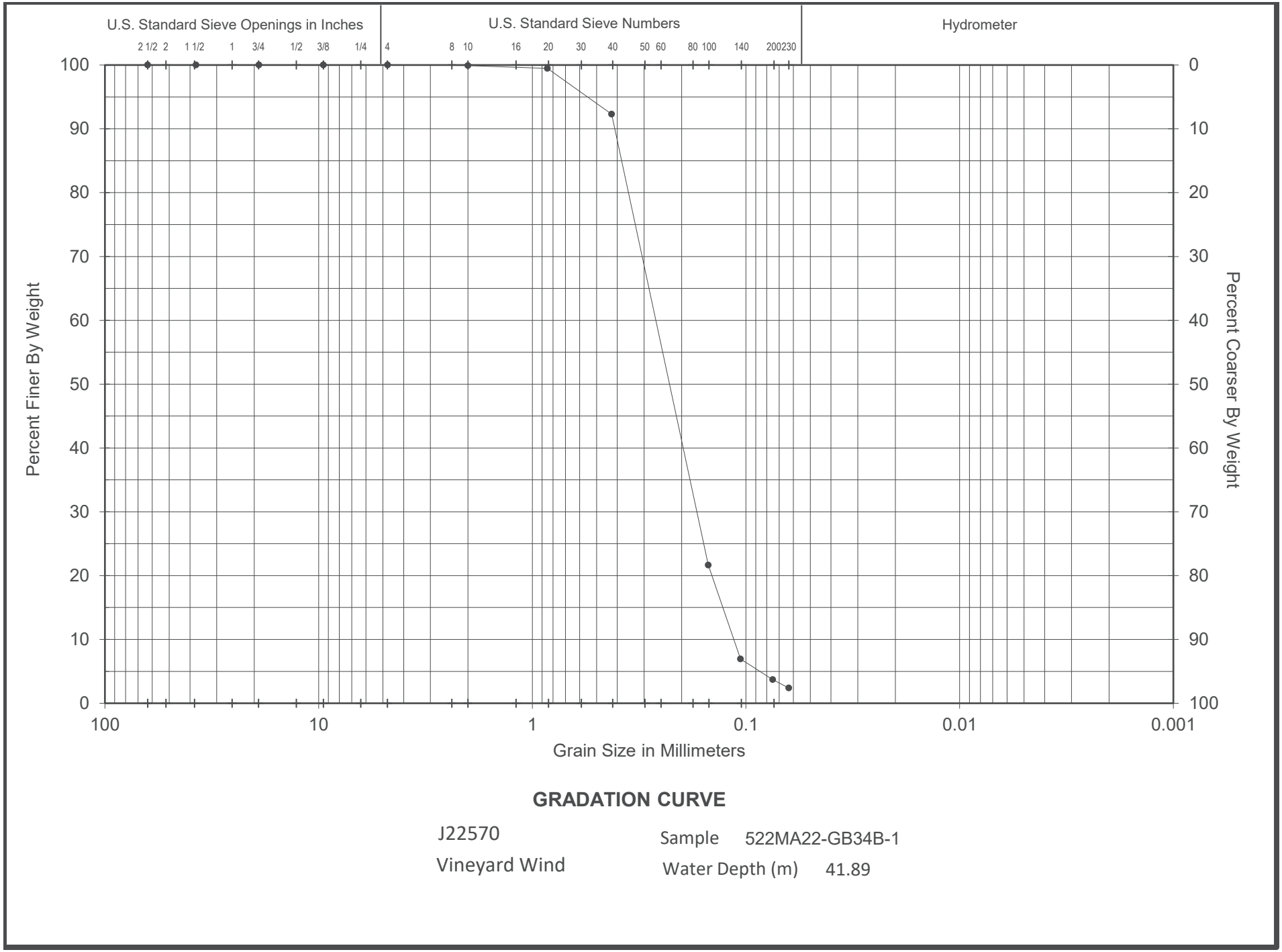
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.92	0.08	36.15
0.85	20	99.48	0.52	
0.425	40	92.30	7.70	
0.15	100	21.65	78.35	
0.106	140	6.94	93.06	
0.075	200	3.71	96.29	
0.063	230	2.39	97.61	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	2.39
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.05
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	97.53
% Silt and Clay	< 0.0625 mm	2.39
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.52
% Medium Sand	0.25 - 0.50 mm	7.17
% Fine Sand	0.0625 - 0.25 mm	89.91

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.65	0.150	6.94	0.106	0.114
D30	30	92.30	0.425	21.65	0.150	0.170
D50	50	92.30	0.425	21.65	0.150	0.228
D60	60	92.30	0.425	21.65	0.150	0.264

Uniformity Coefficient (Cu)	2.317
Coefficient of Curvature (Cc)	0.957



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB34B-1

Water Depth (m) 41.89

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB34C-1
Water Depth (m)	41.99

Grain Size Data

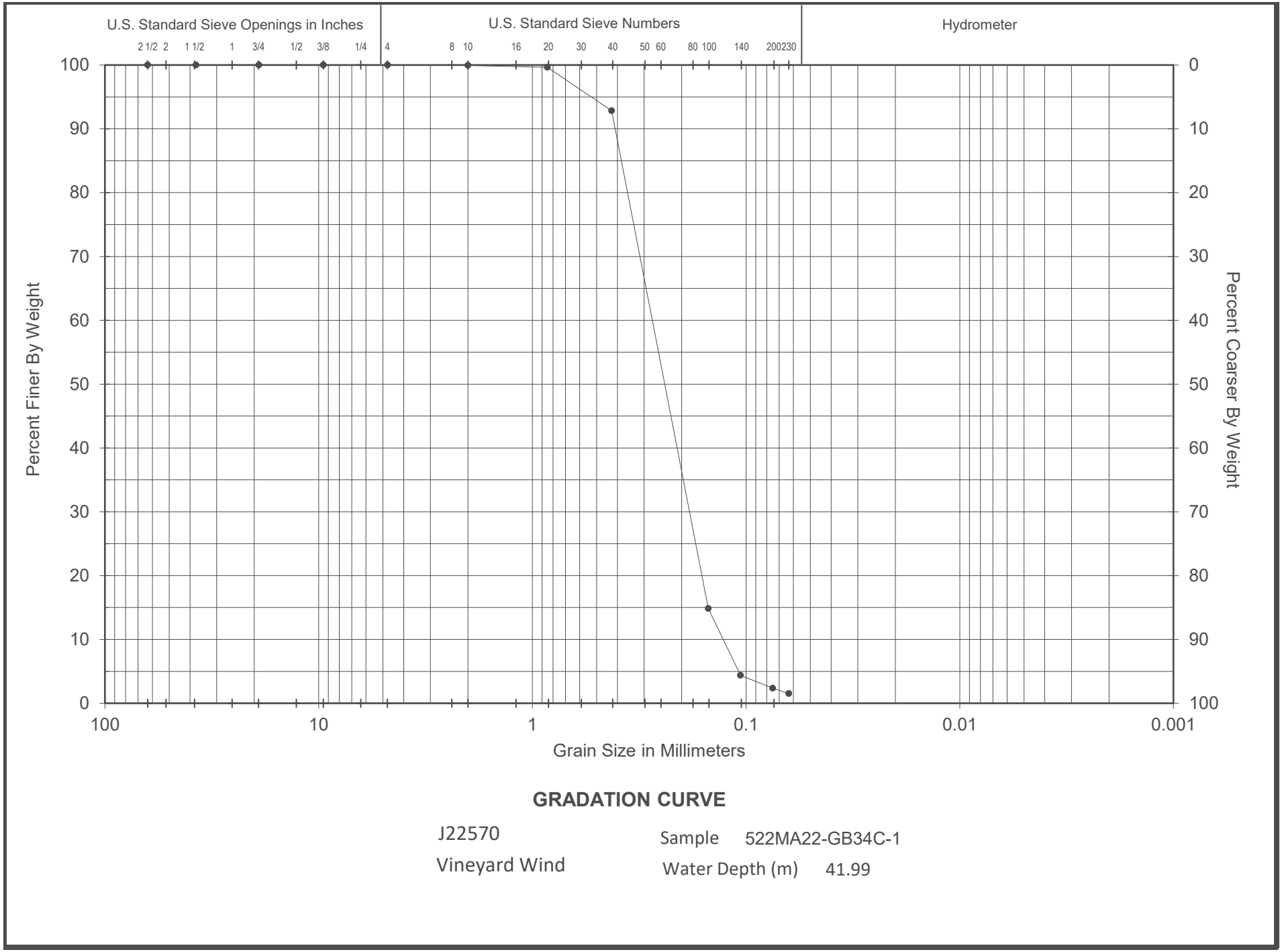
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.93	0.07	39.33
0.85	20	99.64	0.36	
0.425	40	92.85	7.15	
0.15	100	14.84	85.16	
0.106	140	4.39	95.61	
0.075	200	2.37	97.63	
0.063	230	1.50	98.50	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.93
% Passing #230	1.50
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	98.43
% Silt and Clay	< 0.0625 mm	1.50
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.36
% Medium Sand	0.25 - 0.50 mm	6.79
% Fine Sand	0.0625 - 0.25 mm	91.35

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.84	0.150	4.39	0.106	0.128
D30	30	92.85	0.425	14.84	0.150	0.184
D50	50	92.85	0.425	14.84	0.150	0.240
D60	60	92.85	0.425	14.84	0.150	0.274

Uniformity Coefficient (Cu)	2.146
Coefficient of Curvature (Cc)	0.963



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB34C-1

Water Depth (m) 41.99

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB35-1
Water Depth (m)	40.59

Grain Size Data

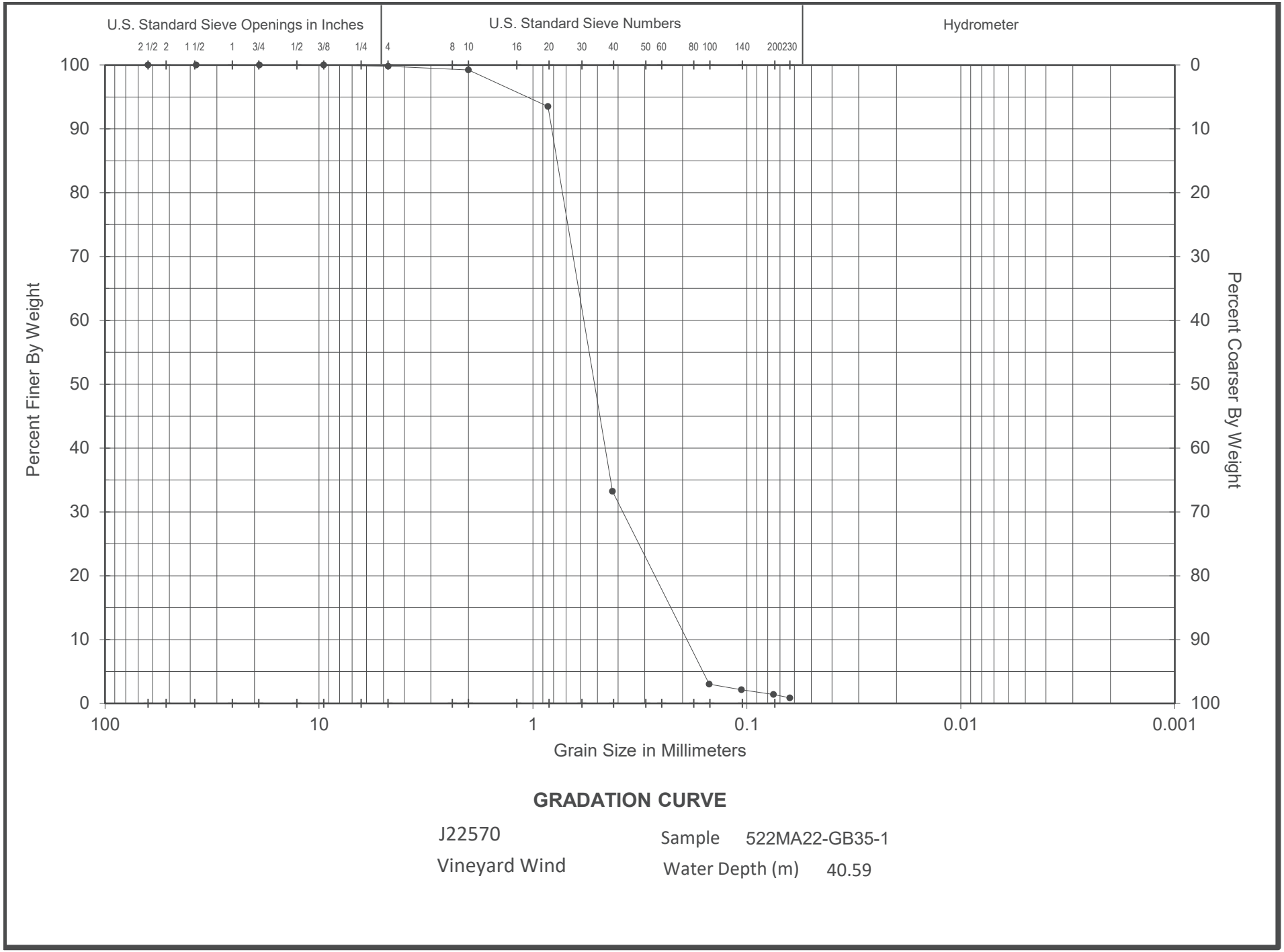
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.81	0.19	
2	10	99.23	0.77	41.29
0.85	20	93.50	6.50	
0.425	40	33.22	66.78	
0.15	100	3.02	96.98	
0.106	140	2.15	97.85	
0.075	200	1.39	98.61	
0.063	230	0.87	99.13	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.23
% Passing #230	0.87
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.45
% Gravel-Sized Shell	> 2.00 mm	0.32
% Sand	0.0625 - 2.00 mm	98.36
% Silt and Clay	< 0.0625 mm	0.87
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.31
% Medium Sand	0.25 - 0.50 mm	60.28
% Fine Sand	0.0625 - 0.25 mm	32.35

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.22	0.425	3.02	0.150	0.191
D30	30	33.22	0.425	3.02	0.150	0.380
D50	50	93.50	0.850	33.22	0.425	0.515
D60	60	93.50	0.850	33.22	0.425	0.578

Uniformity Coefficient (Cu)	3.031
Coefficient of Curvature (Cc)	1.311



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB35-1

Water Depth (m) 40.59

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB36A-1
Water Depth (m)	37.79

Grain Size Data

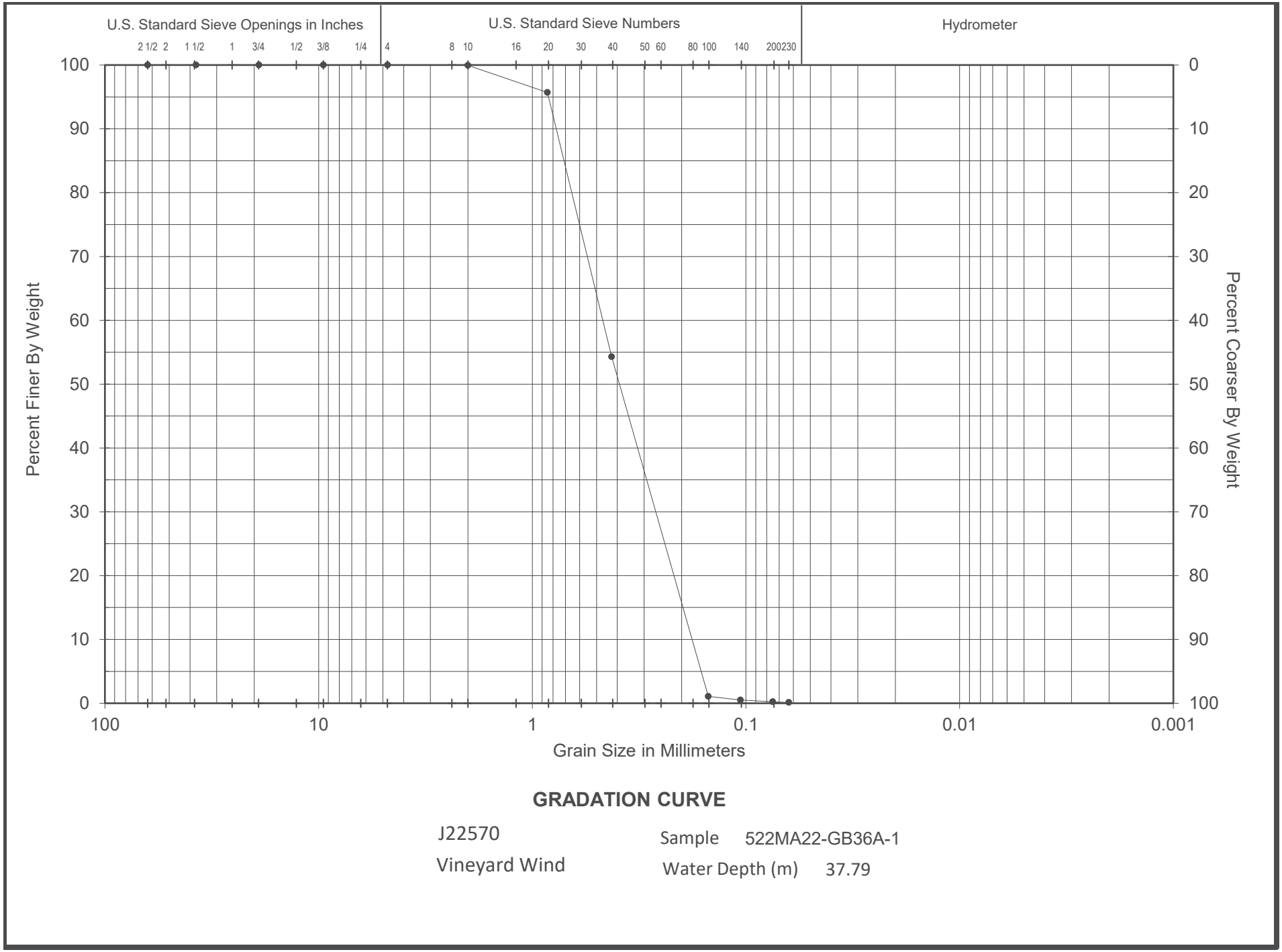
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.94	0.06	100.00
0.85	20	95.69	4.31	
0.425	40	54.31	45.69	
0.15	100	1.09	98.91	
0.106	140	0.52	99.48	
0.075	200	0.24	99.76	
0.063	230	0.12	99.88	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	0.12
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	99.82
% Silt and Clay	< 0.0625 mm	0.12
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.31
% Medium Sand	0.25 - 0.50 mm	41.38
% Fine Sand	0.0625 - 0.25 mm	54.19

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	54.31	0.425	1.09	0.150	0.179
D30	30	54.31	0.425	1.09	0.150	0.264
D50	50	54.31	0.425	1.09	0.150	0.391
D60	60	95.69	0.850	54.31	0.425	0.468

Uniformity Coefficient (Cu)	2.618
Coefficient of Curvature (Cc)	0.836



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB36A-1

Water Depth (m) 37.79

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB36B-1
Water Depth (m)	37.64

Grain Size Data

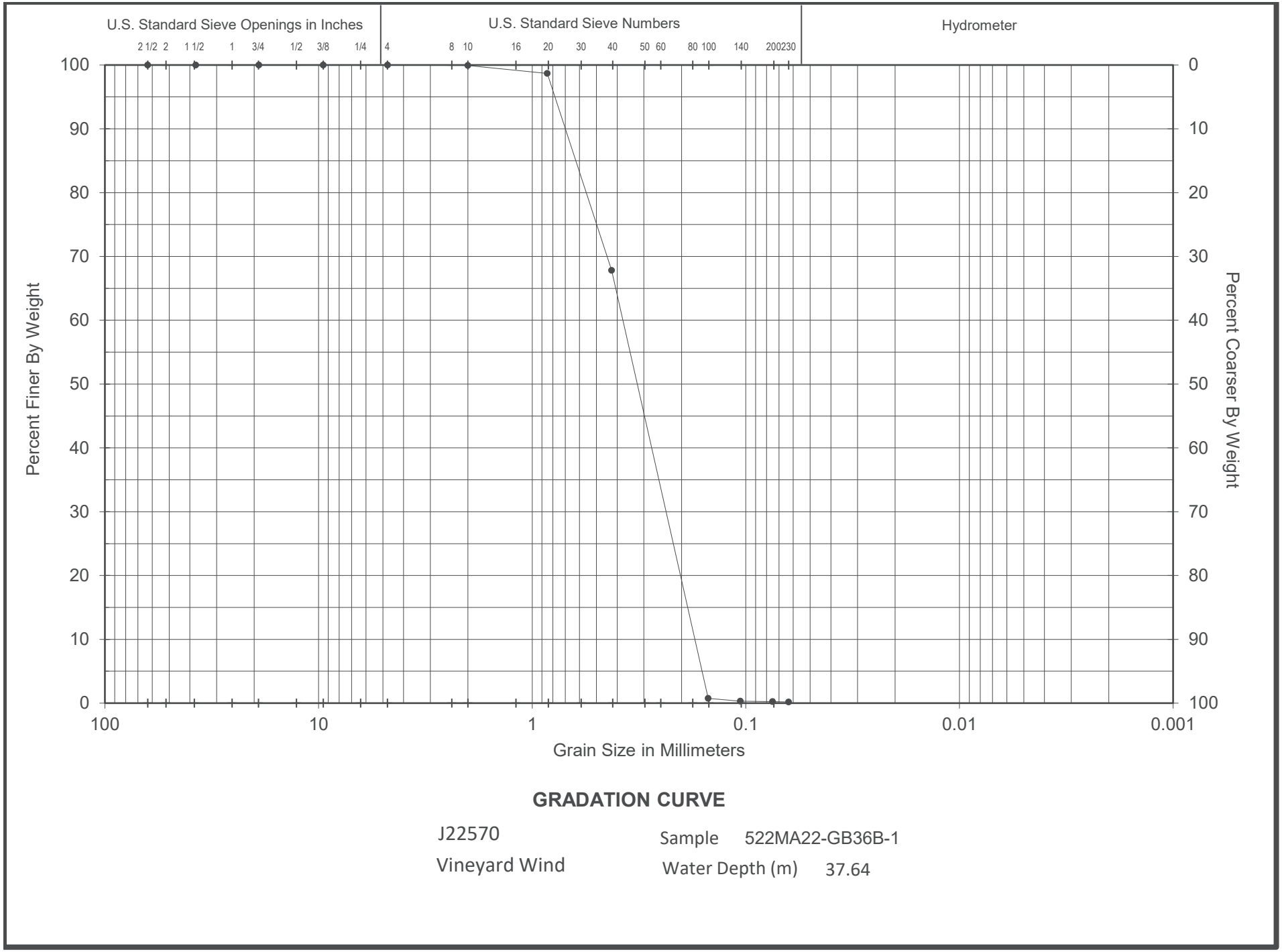
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.92	0.08	100.00
0.85	20	98.69	1.31	
0.425	40	67.81	32.19	
0.15	100	0.74	99.26	
0.106	140	0.30	99.70	
0.075	200	0.23	99.77	
0.063	230	0.19	99.81	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	0.19
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	99.73
% Silt and Clay	< 0.0625 mm	0.19
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.31
% Medium Sand	0.25 - 0.50 mm	30.88
% Fine Sand	0.0625 - 0.25 mm	67.62

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	67.81	0.425	0.74	0.150	0.173
D30	30	67.81	0.425	0.74	0.150	0.236
D50	50	67.81	0.425	0.74	0.150	0.322
D60	60	67.81	0.425	0.74	0.150	0.376

Uniformity Coefficient (Cu)	2.174
Coefficient of Curvature (Cc)	0.856



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB36B-1

Water Depth (m) 37.64

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB36C-1
Water Depth (m)	40.97

Grain Size Data

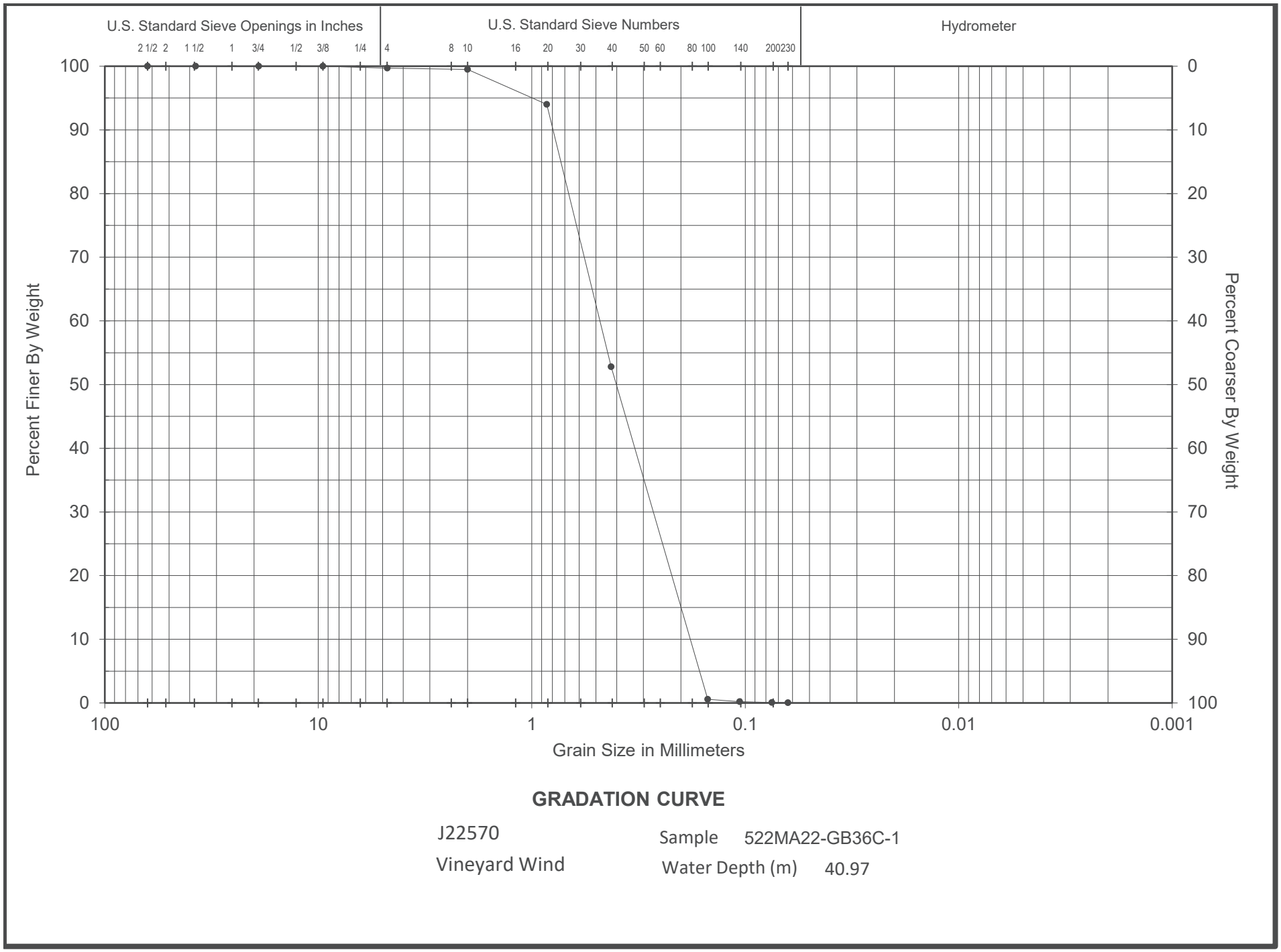
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.69	0.31	
2	10	99.51	0.49	100.00
0.85	20	94.01	5.99	
0.425	40	52.80	47.20	
0.15	100	0.58	99.42	
0.106	140	0.22	99.78	
0.075	200	0.08	99.92	
0.063	230	0.04	99.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.51
% Passing #230	0.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.49
% Sand	0.0625 - 2.00 mm	99.46
% Silt and Clay	< 0.0625 mm	0.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.69
% Medium Sand	0.25 - 0.50 mm	41.20
% Fine Sand	0.0625 - 0.25 mm	52.76

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	52.80	0.425	0.58	0.150	0.181
D30	30	52.80	0.425	0.58	0.150	0.270
D50	50	52.80	0.425	0.58	0.150	0.402
D60	60	94.01	0.850	52.80	0.425	0.480

Uniformity Coefficient (Cu)	2.650
Coefficient of Curvature (Cc)	0.838



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB36C-1

Water Depth (m) 40.97

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB37-1
Water Depth (m)	37.66

Grain Size Data

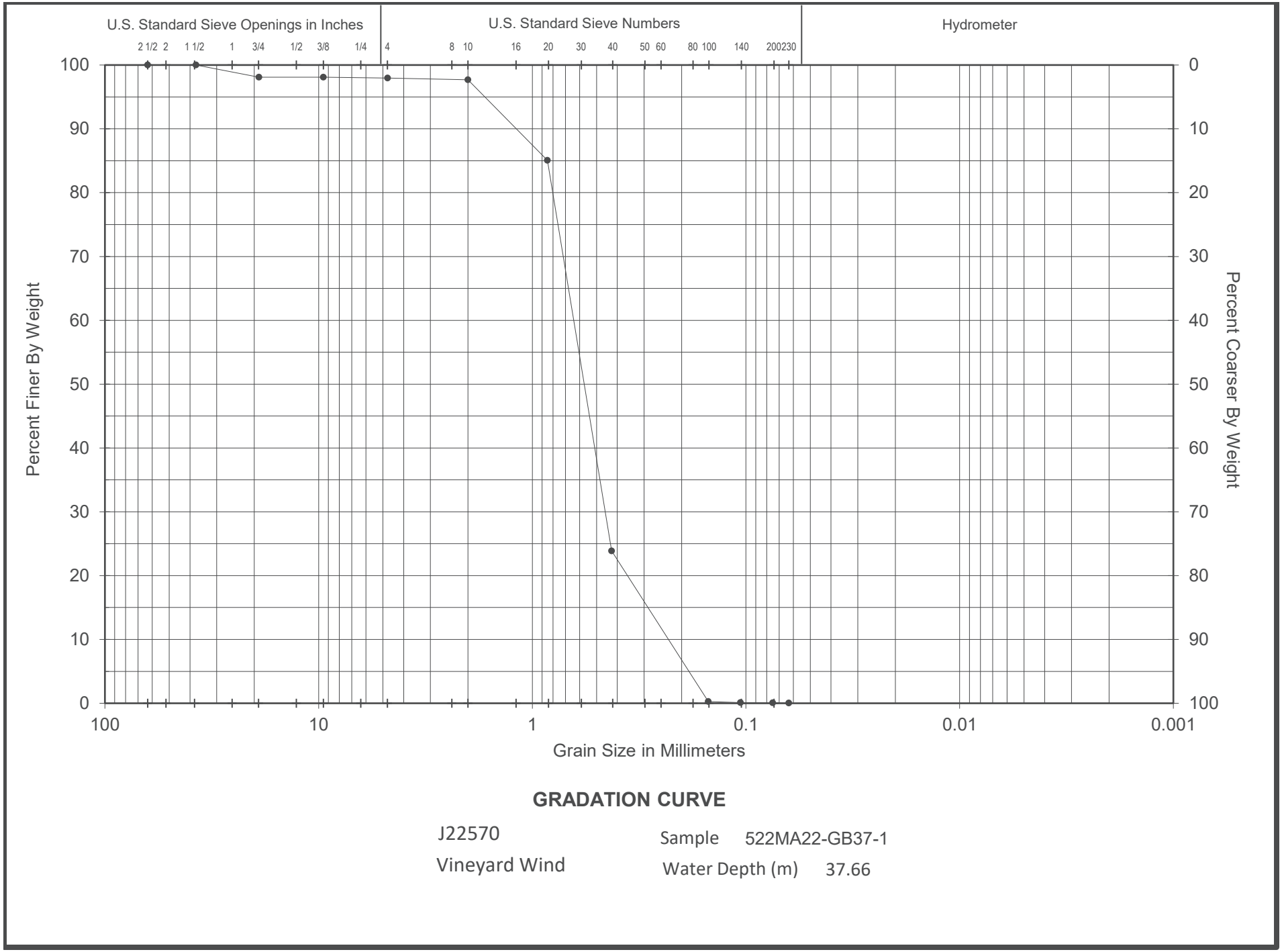
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.11	1.89	
9.5	3/8"	98.11	1.89	
4.75	4	97.97	2.03	
2	10	97.69	2.31	92.61
0.85	20	85.05	14.95	
0.425	40	23.88	76.12	
0.15	100	0.27	99.73	
0.106	140	0.12	99.88	
0.075	200	0.07	99.93	
0.063	230	0.05	99.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.69
% Passing #230	0.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.17
% Gravel-Sized Shell	> 2.00 mm	2.14
% Sand	0.0625 - 2.00 mm	97.64
% Silt and Clay	< 0.0625 mm	0.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	12.92
% Medium Sand	0.25 - 0.50 mm	61.18
% Fine Sand	0.0625 - 0.25 mm	23.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.88	0.425	0.27	0.150	0.230
D30	30	85.05	0.850	23.88	0.425	0.456
D50	50	85.05	0.850	23.88	0.425	0.571
D60	60	85.05	0.850	23.88	0.425	0.640

Uniformity Coefficient (Cu)	2.778
Coefficient of Curvature (Cc)	1.407



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB37-1

Water Depth (m) 37.66

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB38A-1
Water Depth (m)	35.09

Grain Size Data

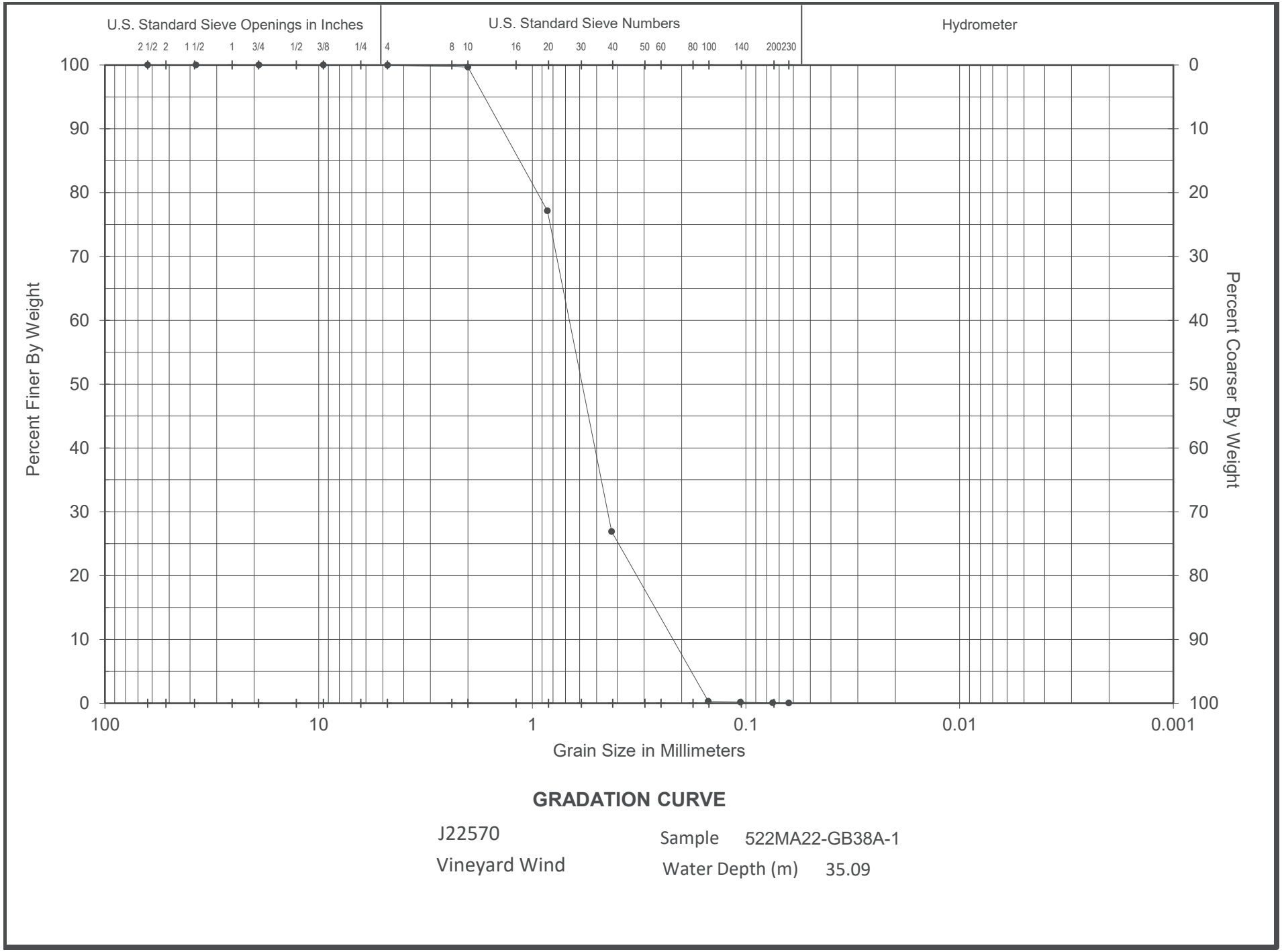
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.69	0.31	86.18
0.85	20	77.14	22.86	
0.425	40	26.90	73.10	
0.15	100	0.30	99.70	
0.106	140	0.17	99.83	
0.075	200	0.06	99.94	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.69
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.27
% Sand	0.0625 - 2.00 mm	99.66
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	22.82
% Medium Sand	0.25 - 0.50 mm	50.25
% Fine Sand	0.0625 - 0.25 mm	26.87

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	26.90	0.425	0.30	0.150	0.219
D30	30	77.14	0.850	26.90	0.425	0.444
D50	50	77.14	0.850	26.90	0.425	0.585
D60	60	77.14	0.850	26.90	0.425	0.671

Uniformity Coefficient (Cu)	3.060
Coefficient of Curvature (Cc)	1.337



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB38A-1

Water Depth (m) 35.09

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB38B-1
Water Depth (m)	36.2

Grain Size Data

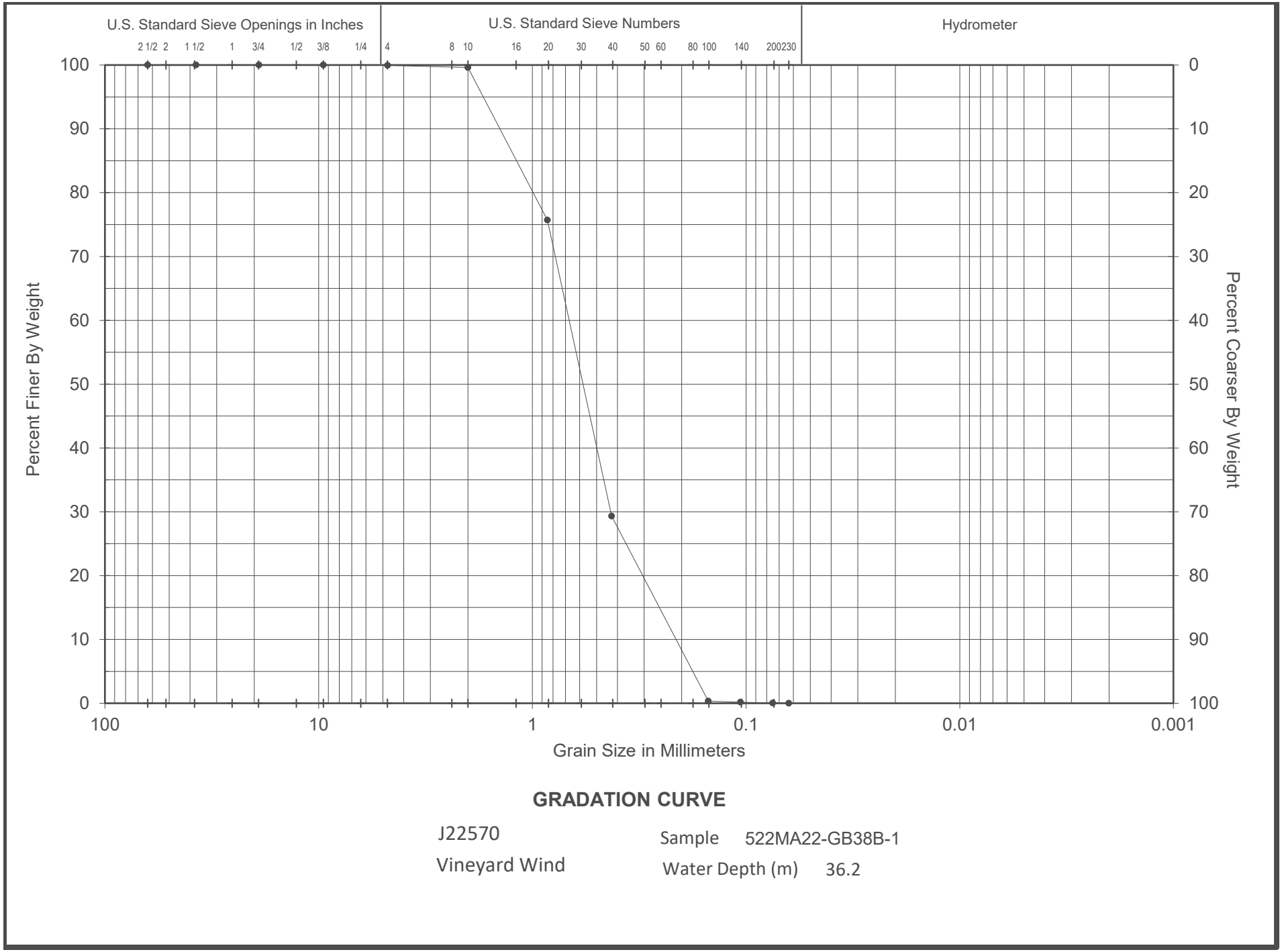
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.95	0.05	
2	10	99.61	0.39	89.58
0.85	20	75.71	24.29	
0.425	40	29.31	70.69	
0.15	100	0.34	99.66	
0.106	140	0.16	99.84	
0.075	200	0.05	99.95	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.61
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.35
% Sand	0.0625 - 2.00 mm	99.59
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.24
% Medium Sand	0.25 - 0.50 mm	46.40
% Fine Sand	0.0625 - 0.25 mm	29.30

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	29.31	0.425	0.34	0.150	0.212
D30	30	75.71	0.850	29.31	0.425	0.429
D50	50	75.71	0.850	29.31	0.425	0.579
D60	60	75.71	0.850	29.31	0.425	0.672

Uniformity Coefficient (Cu)	3.166
Coefficient of Curvature (Cc)	1.292



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB38B-1

Water Depth (m) 36.2

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB38C-1
Water Depth (m)	36.4

Grain Size Data

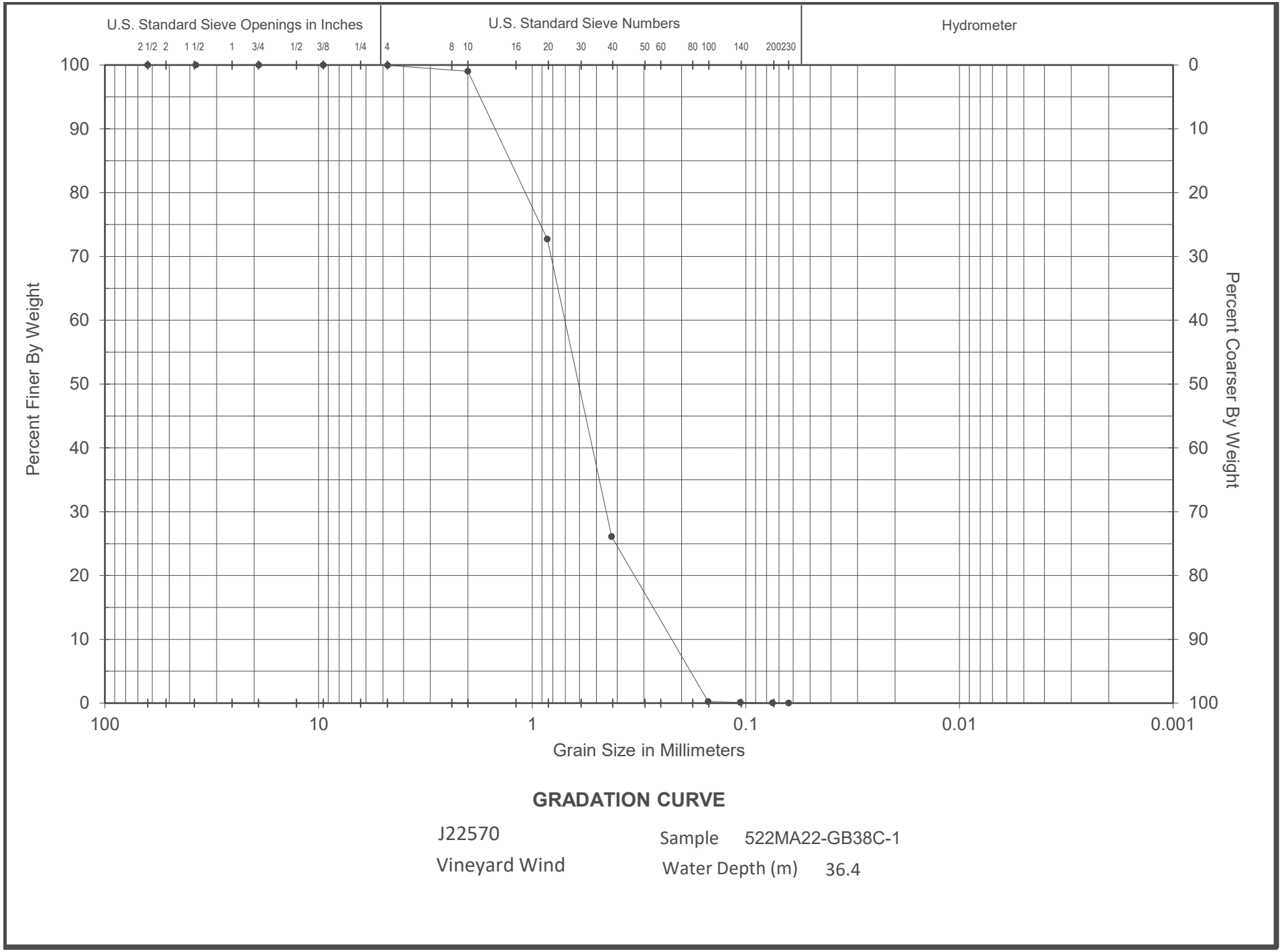
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.94	0.06	
2	10	99.03	0.97	93.37
0.85	20	72.74	27.26	
0.425	40	26.09	73.91	
0.15	100	0.23	99.77	
0.106	140	0.10	99.90	
0.075	200	0.03	99.97	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.03
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.90
% Sand	0.0625 - 2.00 mm	99.02
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.20
% Medium Sand	0.25 - 0.50 mm	46.65
% Fine Sand	0.0625 - 0.25 mm	26.08

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	26.09	0.425	0.23	0.150	0.222
D30	30	72.74	0.850	26.09	0.425	0.450
D50	50	72.74	0.850	26.09	0.425	0.606
D60	60	72.74	0.850	26.09	0.425	0.703

Uniformity Coefficient (Cu)	3.164
Coefficient of Curvature (Cc)	1.297



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB38C-1

Water Depth (m) 36.4

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB39-1
Water Depth (m)	36.33

Grain Size Data

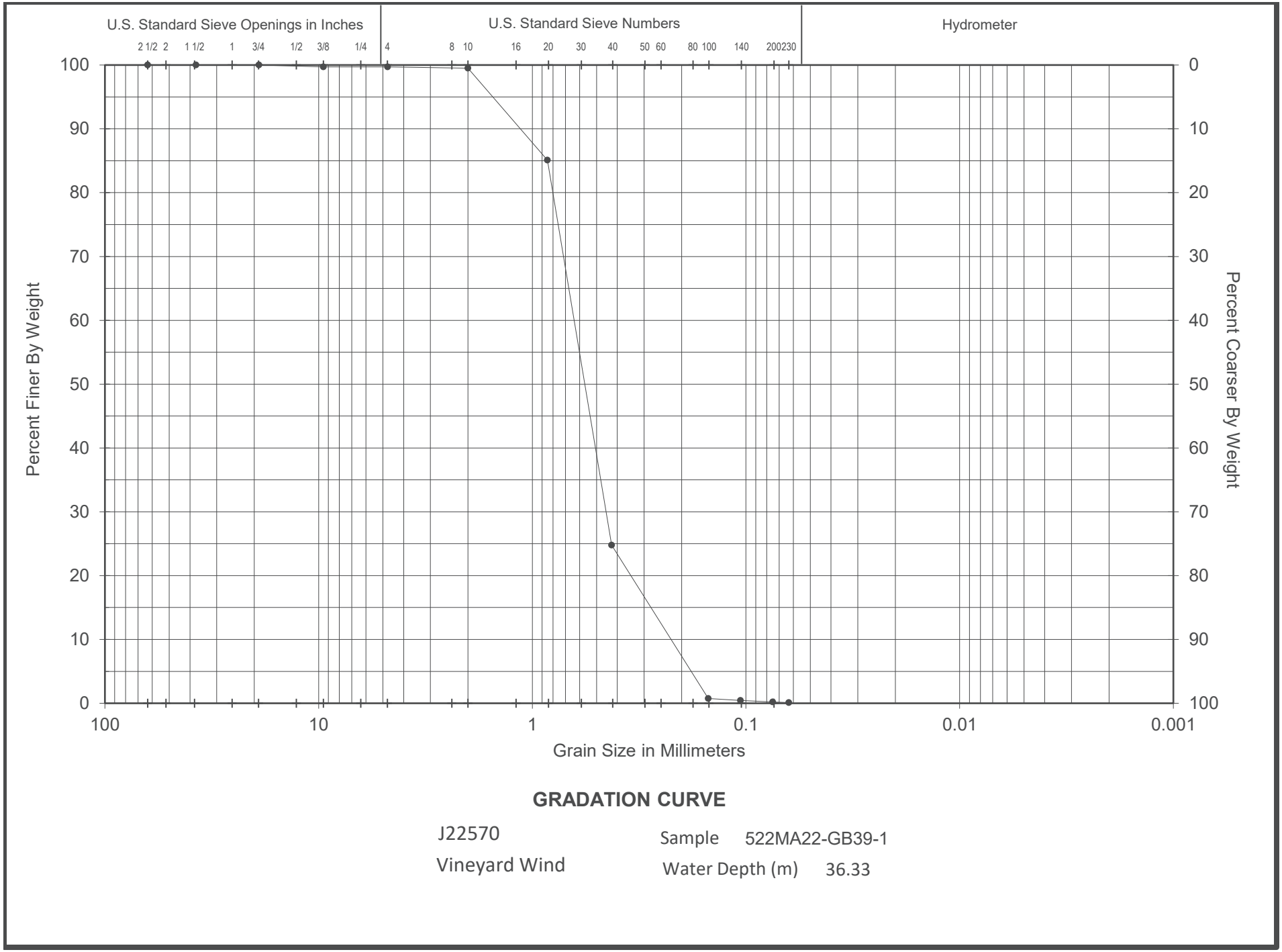
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.69	0.31	
4.75	4	99.69	0.31	
2	10	99.52	0.48	70.88
0.85	20	85.11	14.89	
0.425	40	24.77	75.23	
0.15	100	0.74	99.26	
0.106	140	0.44	99.56	
0.075	200	0.21	99.79	
0.063	230	0.11	99.89	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.52
% Passing #230	0.11
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.14
% Gravel-Sized Shell	> 2.00 mm	0.34
% Sand	0.0625 - 2.00 mm	99.41
% Silt and Clay	< 0.0625 mm	0.11
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.58
% Medium Sand	0.25 - 0.50 mm	60.34
% Fine Sand	0.0625 - 0.25 mm	24.66

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.77	0.425	0.74	0.150	0.224
D30	30	85.11	0.850	24.77	0.425	0.451
D50	50	85.11	0.850	24.77	0.425	0.568
D60	60	85.11	0.850	24.77	0.425	0.637

Uniformity Coefficient (Cu)	2.843
Coefficient of Curvature (Cc)	1.427



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB39-1

Water Depth (m) 36.33

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB40A-1
Water Depth (m)	37.29

Grain Size Data

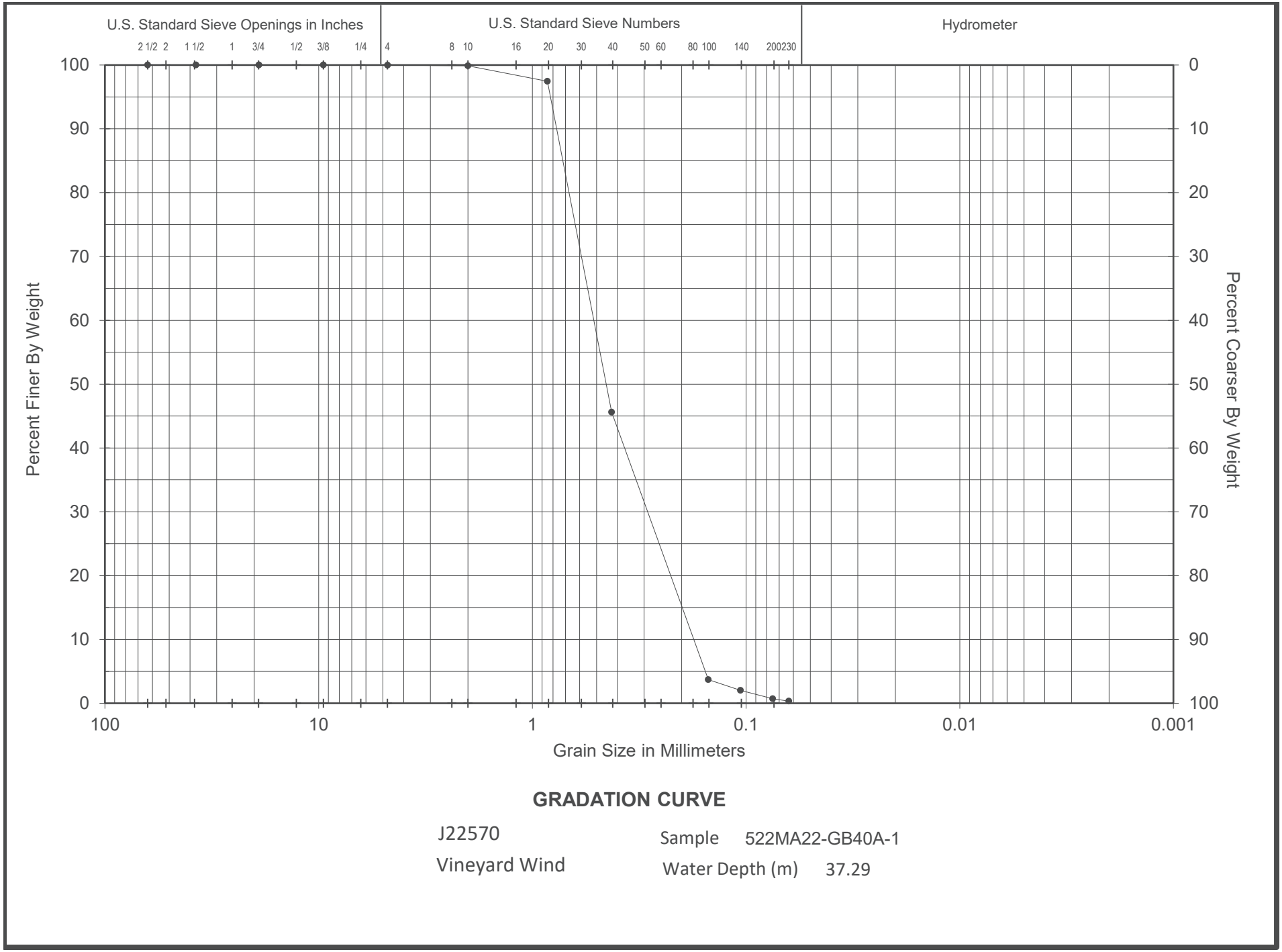
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.88	0.12	66.00
0.85	20	97.45	2.55	
0.425	40	45.61	54.39	
0.15	100	3.72	96.28	
0.106	140	2.03	97.97	
0.075	200	0.70	99.30	
0.063	230	0.33	99.67	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.88
% Passing #230	0.33
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	99.55
% Silt and Clay	< 0.0625 mm	0.33
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.52
% Medium Sand	0.25 - 0.50 mm	51.85
% Fine Sand	0.0625 - 0.25 mm	45.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	45.61	0.425	3.72	0.150	0.175
D30	30	45.61	0.425	3.72	0.150	0.288
D50	50	97.45	0.850	45.61	0.425	0.451
D60	60	97.45	0.850	45.61	0.425	0.515

Uniformity Coefficient (Cu)	2.938
Coefficient of Curvature (Cc)	0.920



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB40A-1

Water Depth (m) 37.29

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB40B-1
Water Depth (m)	37.76

Grain Size Data

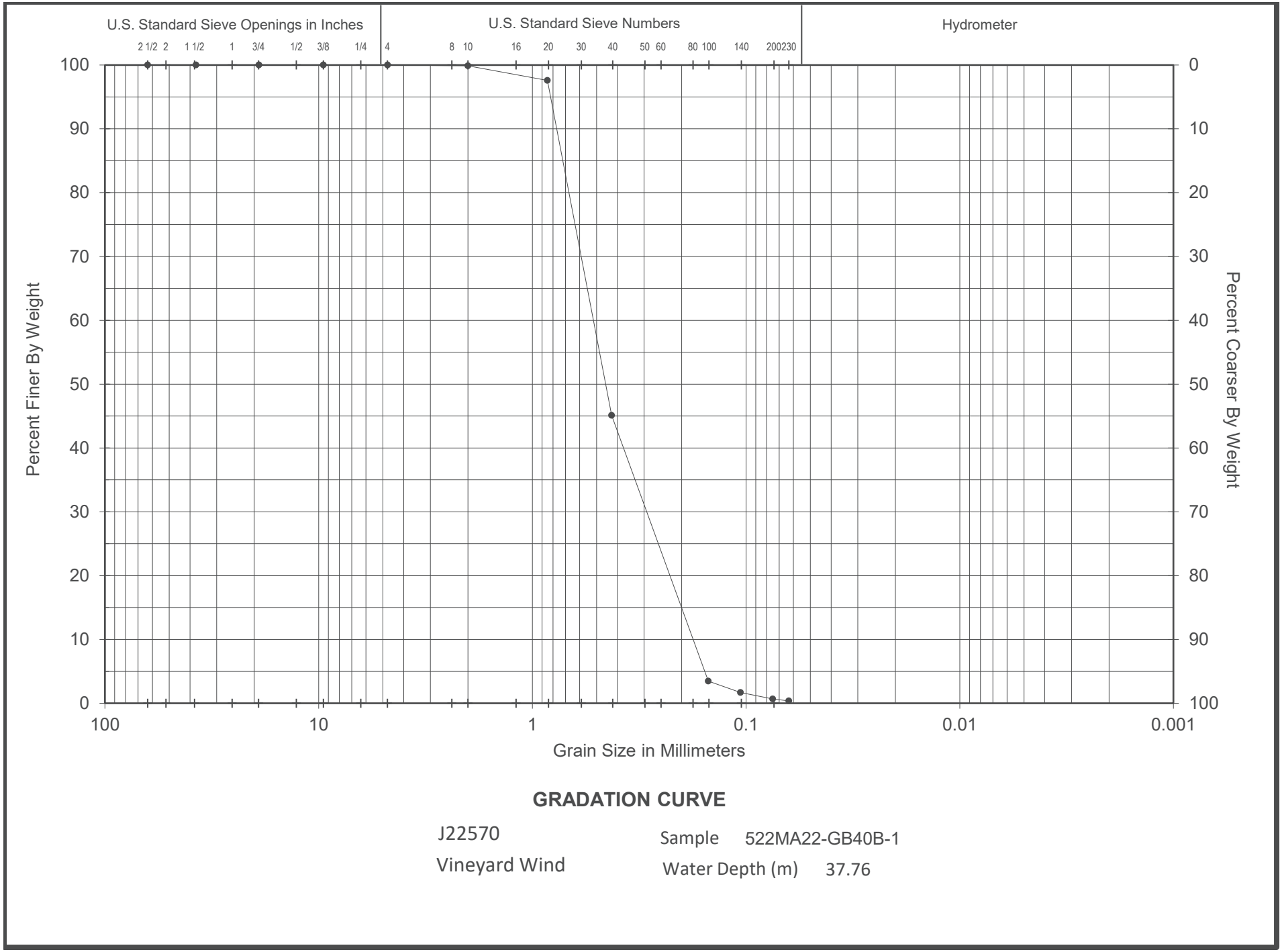
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.89	0.11	54.38
0.85	20	97.58	2.42	
0.425	40	45.10	54.90	
0.15	100	3.48	96.52	
0.106	140	1.70	98.30	
0.075	200	0.68	99.32	
0.063	230	0.37	99.63	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.89
% Passing #230	0.37
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.05
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	99.52
% Silt and Clay	< 0.0625 mm	0.37
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.42
% Medium Sand	0.25 - 0.50 mm	52.48
% Fine Sand	0.0625 - 0.25 mm	44.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	45.10	0.425	3.48	0.150	0.177
D30	30	45.10	0.425	3.48	0.150	0.291
D50	50	97.58	0.850	45.10	0.425	0.453
D60	60	97.58	0.850	45.10	0.425	0.517

Uniformity Coefficient (Cu)	2.931
Coefficient of Curvature (Cc)	0.928



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB40B-1

Water Depth (m) 37.76

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB40C-1
Water Depth (m)	37.85

Grain Size Data

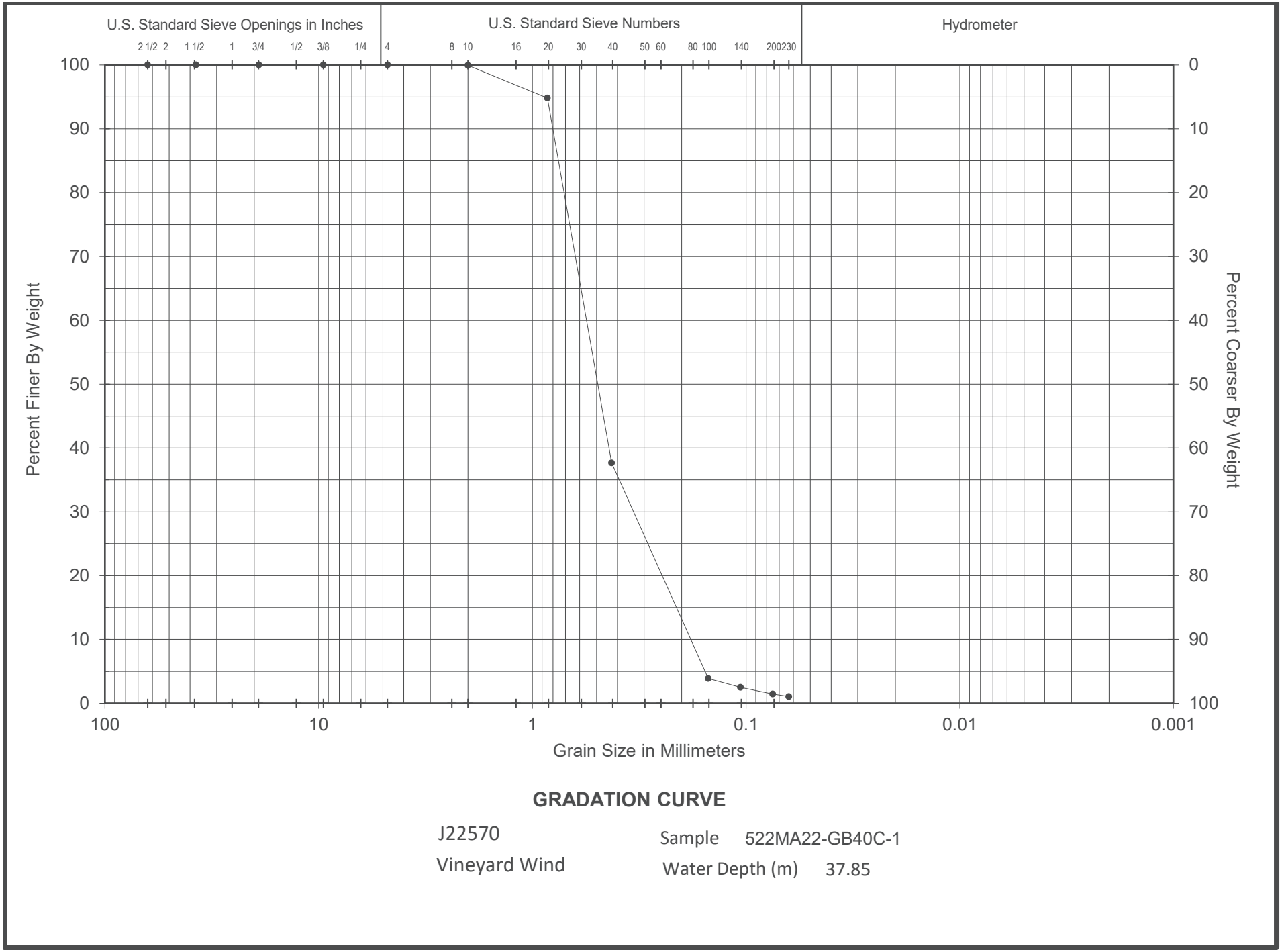
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.93	0.07	100.00
0.85	20	94.83	5.17	
0.425	40	37.67	62.33	
0.15	100	3.87	96.13	
0.106	140	2.49	97.51	
0.075	200	1.44	98.56	
0.063	230	1.06	98.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.93
% Passing #230	1.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	98.87
% Silt and Clay	< 0.0625 mm	1.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.17
% Medium Sand	0.25 - 0.50 mm	57.16
% Fine Sand	0.0625 - 0.25 mm	36.60

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	37.67	0.425	3.87	0.150	0.181
D30	30	37.67	0.425	3.87	0.150	0.336
D50	50	94.83	0.850	37.67	0.425	0.494
D60	60	94.83	0.850	37.67	0.425	0.557

Uniformity Coefficient (Cu)	3.075
Coefficient of Curvature (Cc)	1.115



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB40C-1

Water Depth (m) 37.85

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB41-1
Water Depth (m)	36.2

Grain Size Data

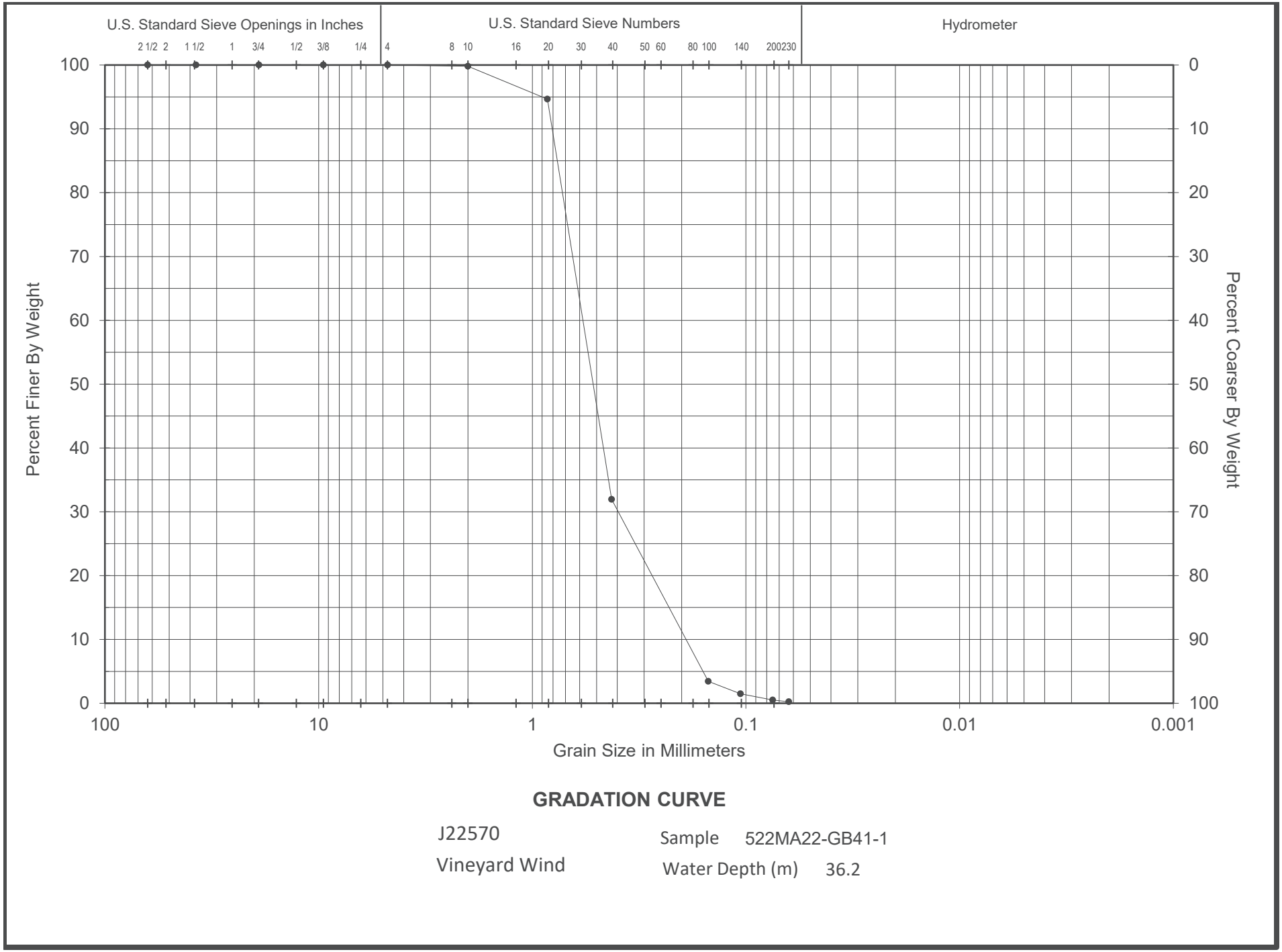
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.81	0.19	51.31
0.85	20	94.65	5.35	
0.425	40	31.96	68.04	
0.15	100	3.44	96.56	
0.106	140	1.49	98.51	
0.075	200	0.50	99.50	
0.063	230	0.23	99.77	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.81
% Passing #230	0.23
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.09
% Gravel-Sized Shell	> 2.00 mm	0.10
% Sand	0.0625 - 2.00 mm	99.58
% Silt and Clay	< 0.0625 mm	0.23
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.35
% Medium Sand	0.25 - 0.50 mm	62.70
% Fine Sand	0.0625 - 0.25 mm	31.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.96	0.425	3.44	0.150	0.191
D30	30	31.96	0.425	3.44	0.150	0.396
D50	50	94.65	0.850	31.96	0.425	0.519
D60	60	94.65	0.850	31.96	0.425	0.579

Uniformity Coefficient (Cu)	3.040
Coefficient of Curvature (Cc)	1.417



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB41-1

Water Depth (m) 36.2

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB42A-1
Water Depth (m)	33.96

Grain Size Data

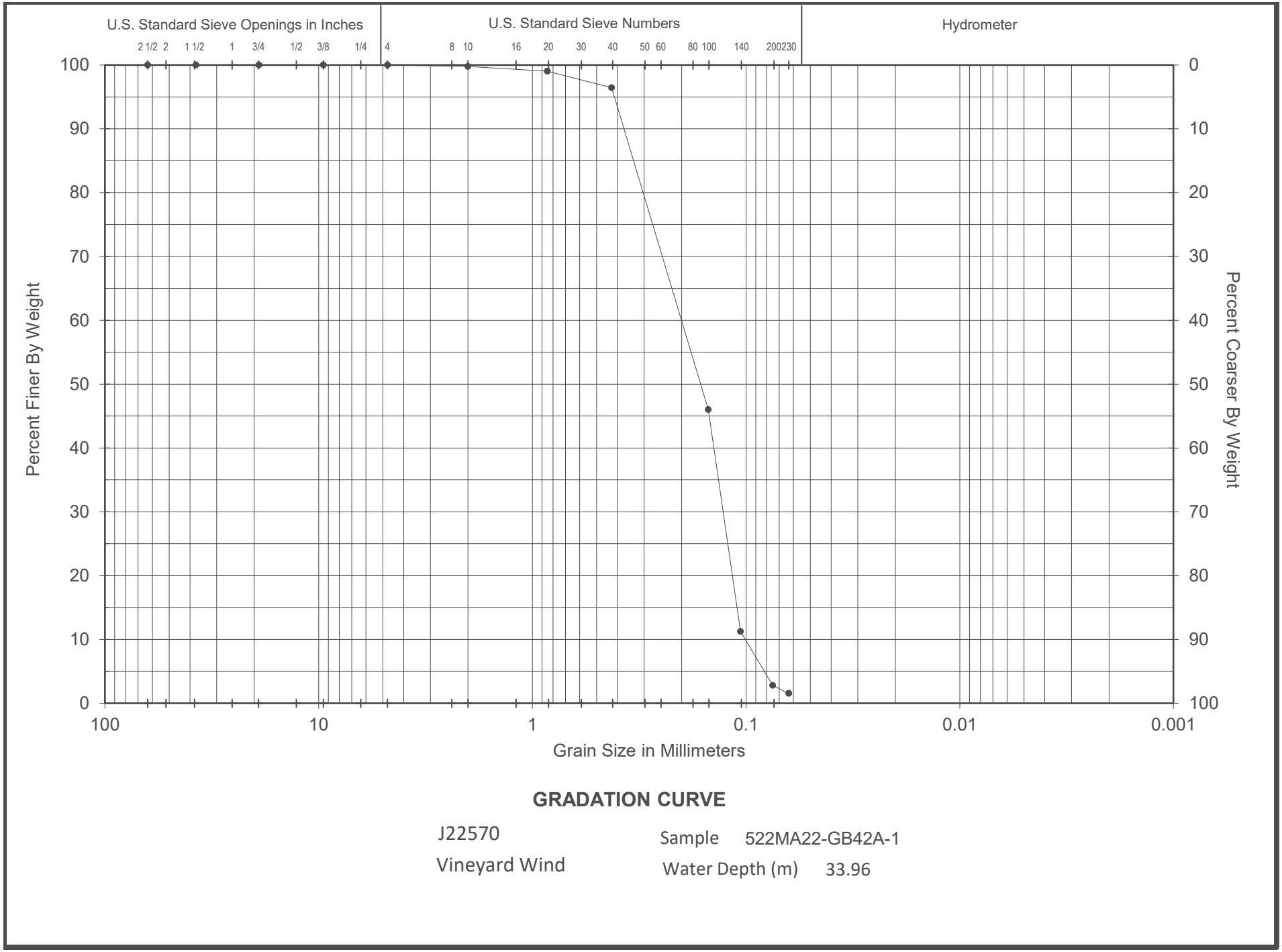
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.78	0.22	9.38
0.85	20	99.02	0.98	
0.425	40	96.44	3.56	
0.15	100	46.02	53.98	
0.106	140	11.24	88.76	
0.075	200	2.78	97.22	
0.063	230	1.54	98.46	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.78
% Passing #230	1.54
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.20
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	98.24
% Silt and Clay	< 0.0625 mm	1.54
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.98
% Medium Sand	0.25 - 0.50 mm	2.59
% Fine Sand	0.0625 - 0.25 mm	94.90

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.24	0.106	2.78	0.075	0.101
D30	30	46.02	0.150	11.24	0.106	0.128
D50	50	96.44	0.425	46.02	0.150	0.163
D60	60	96.44	0.425	46.02	0.150	0.200

Uniformity Coefficient (Cu)	1.987
Coefficient of Curvature (Cc)	0.810



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB42A-1

Water Depth (m) 33.96

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB42B-1
Water Depth (m)	33.96

Grain Size Data

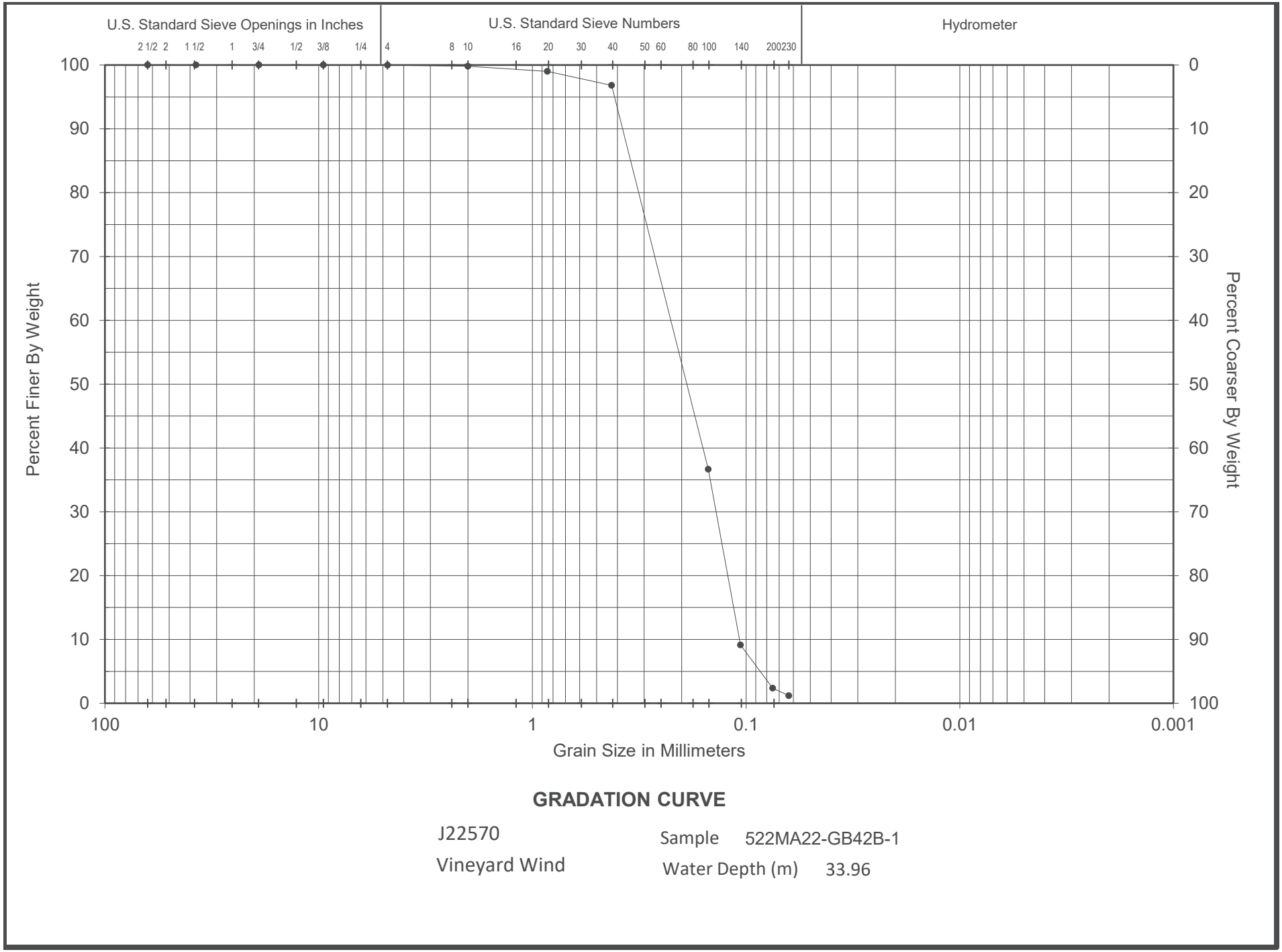
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.96	0.04	
2	10	99.81	0.19	46.03
0.85	20	98.99	1.01	
0.425	40	96.80	3.20	
0.15	100	36.67	63.33	
0.106	140	9.12	90.88	
0.075	200	2.35	97.65	
0.063	230	1.20	98.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.81
% Passing #230	1.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.10
% Gravel-Sized Shell	> 2.00 mm	0.09
% Sand	0.0625 - 2.00 mm	98.61
% Silt and Clay	< 0.0625 mm	1.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.97
% Medium Sand	0.25 - 0.50 mm	2.20
% Fine Sand	0.0625 - 0.25 mm	95.60

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	36.67	0.150	9.12	0.106	0.107
D30	30	36.67	0.150	9.12	0.106	0.138
D50	50	96.80	0.425	36.67	0.150	0.189
D60	60	96.80	0.425	36.67	0.150	0.225

Uniformity Coefficient (Cu)	2.096
Coefficient of Curvature (Cc)	0.790



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB42B-1

Water Depth (m) 33.96

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB42C-1
Water Depth (m)	34.09

Grain Size Data

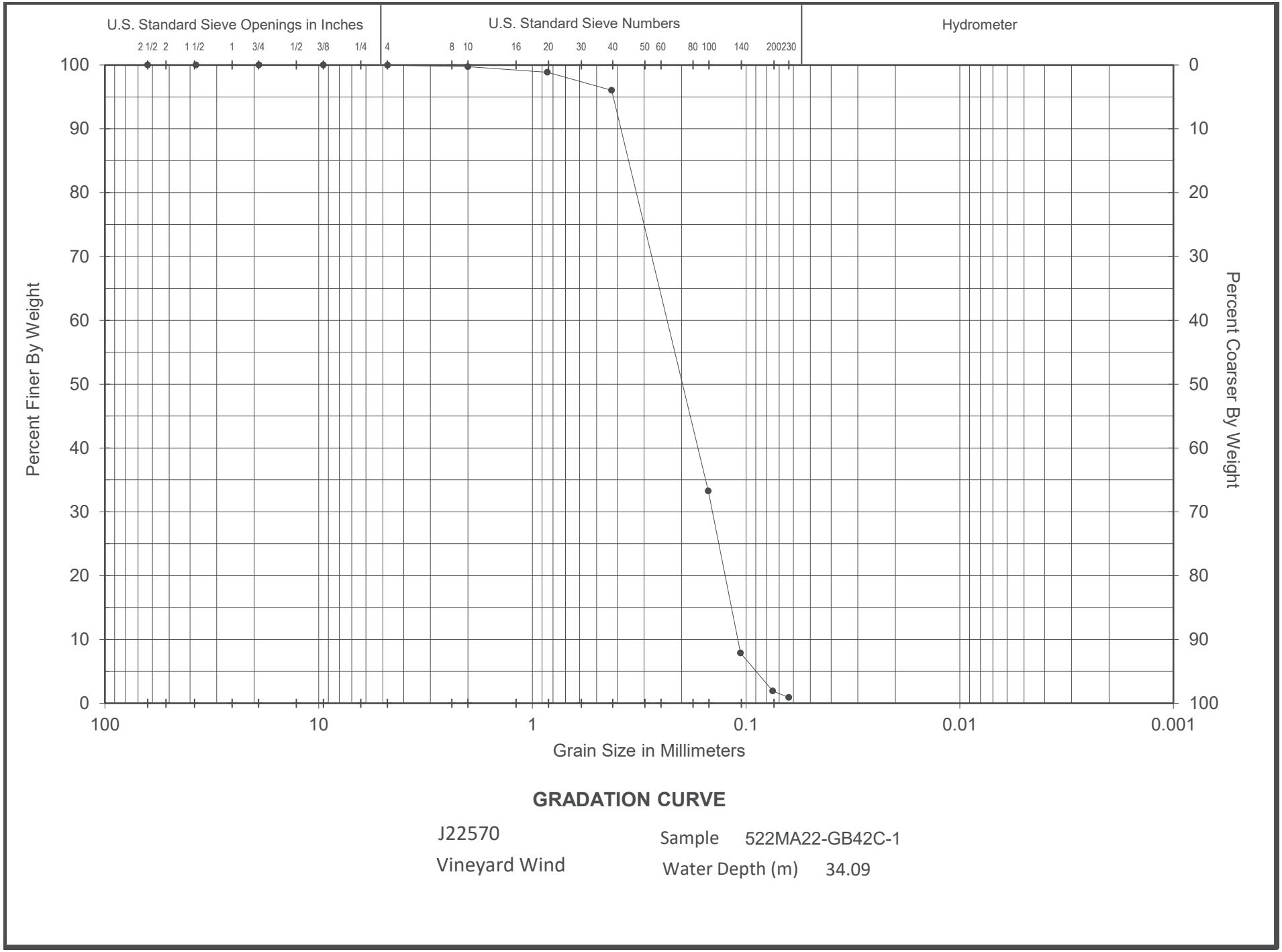
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.73	0.27	34.44
0.85	20	98.86	1.14	
0.425	40	96.04	3.96	
0.15	100	33.27	66.73	
0.106	140	7.87	92.13	
0.075	200	1.92	98.08	
0.063	230	0.91	99.09	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.73
% Passing #230	0.91
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.17
% Gravel-Sized Shell	> 2.00 mm	0.09
% Sand	0.0625 - 2.00 mm	98.83
% Silt and Clay	< 0.0625 mm	0.91
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.10
% Medium Sand	0.25 - 0.50 mm	2.83
% Fine Sand	0.0625 - 0.25 mm	95.13

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.27	0.150	7.87	0.106	0.109
D30	30	33.27	0.150	7.87	0.106	0.143
D50	50	96.04	0.425	33.27	0.150	0.198
D60	60	96.04	0.425	33.27	0.150	0.234

Uniformity Coefficient (Cu)	2.142
Coefficient of Curvature (Cc)	0.807



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB42C-1

Water Depth (m) 34.09

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB43-1
Water Depth (m)	33.5

Grain Size Data

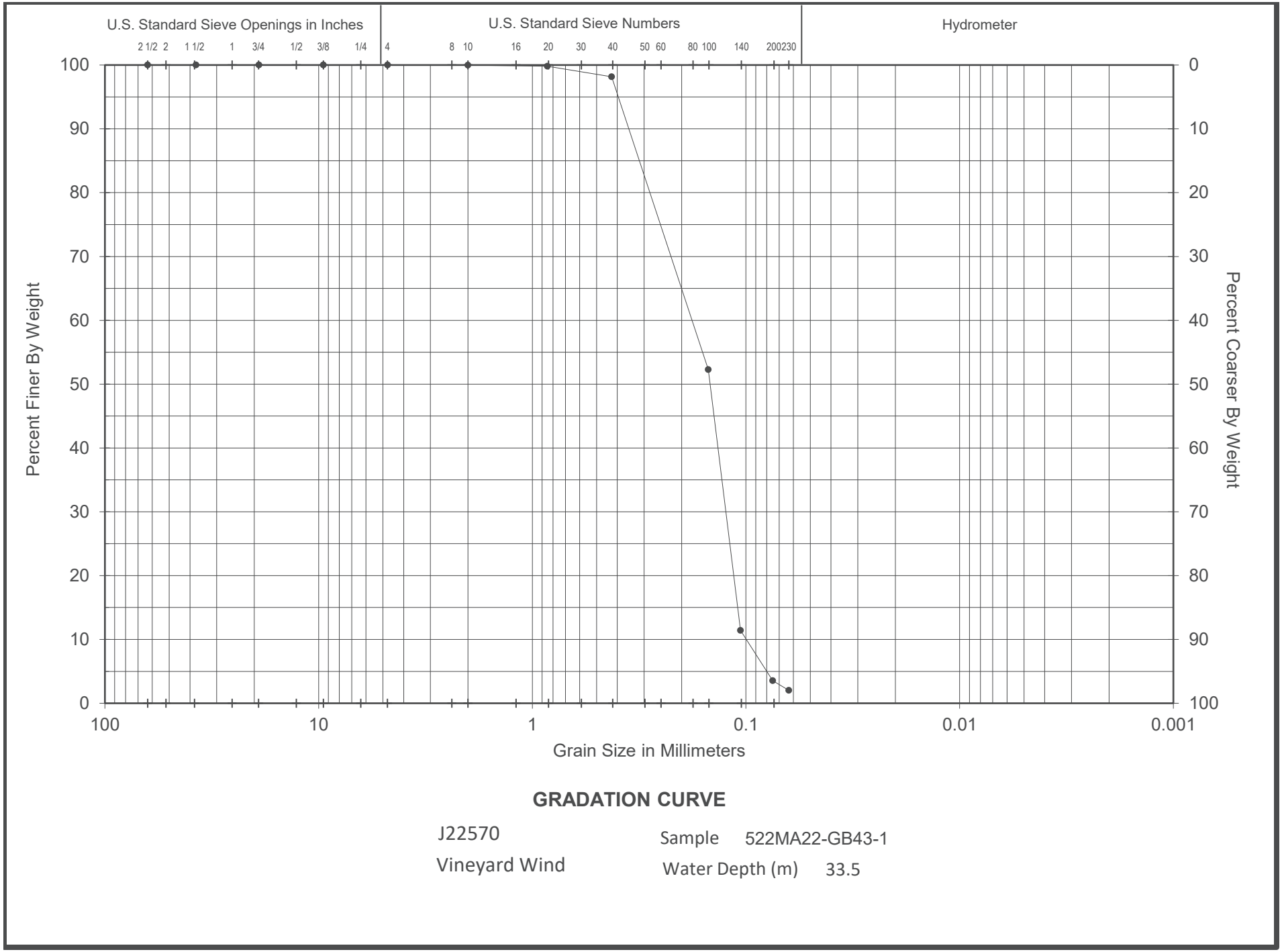
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.80	0.20	
0.425	40	98.18	1.82	
0.15	100	52.29	47.71	
0.106	140	11.41	88.59	
0.075	200	3.55	96.45	
0.063	230	2.02	97.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	2.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	97.96
% Silt and Clay	< 0.0625 mm	2.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.20
% Medium Sand	0.25 - 0.50 mm	1.62
% Fine Sand	0.0625 - 0.25 mm	96.15

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.41	0.106	3.55	0.075	0.100
D30	30	52.29	0.150	11.41	0.106	0.124
D50	50	52.29	0.150	11.41	0.106	0.147
D60	60	98.18	0.425	52.29	0.150	0.179

Uniformity Coefficient (Cu)	1.794
Coefficient of Curvature (Cc)	0.866



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB43-1

Water Depth (m) 33.5

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB44A-1
Water Depth (m)	33.54

Grain Size Data

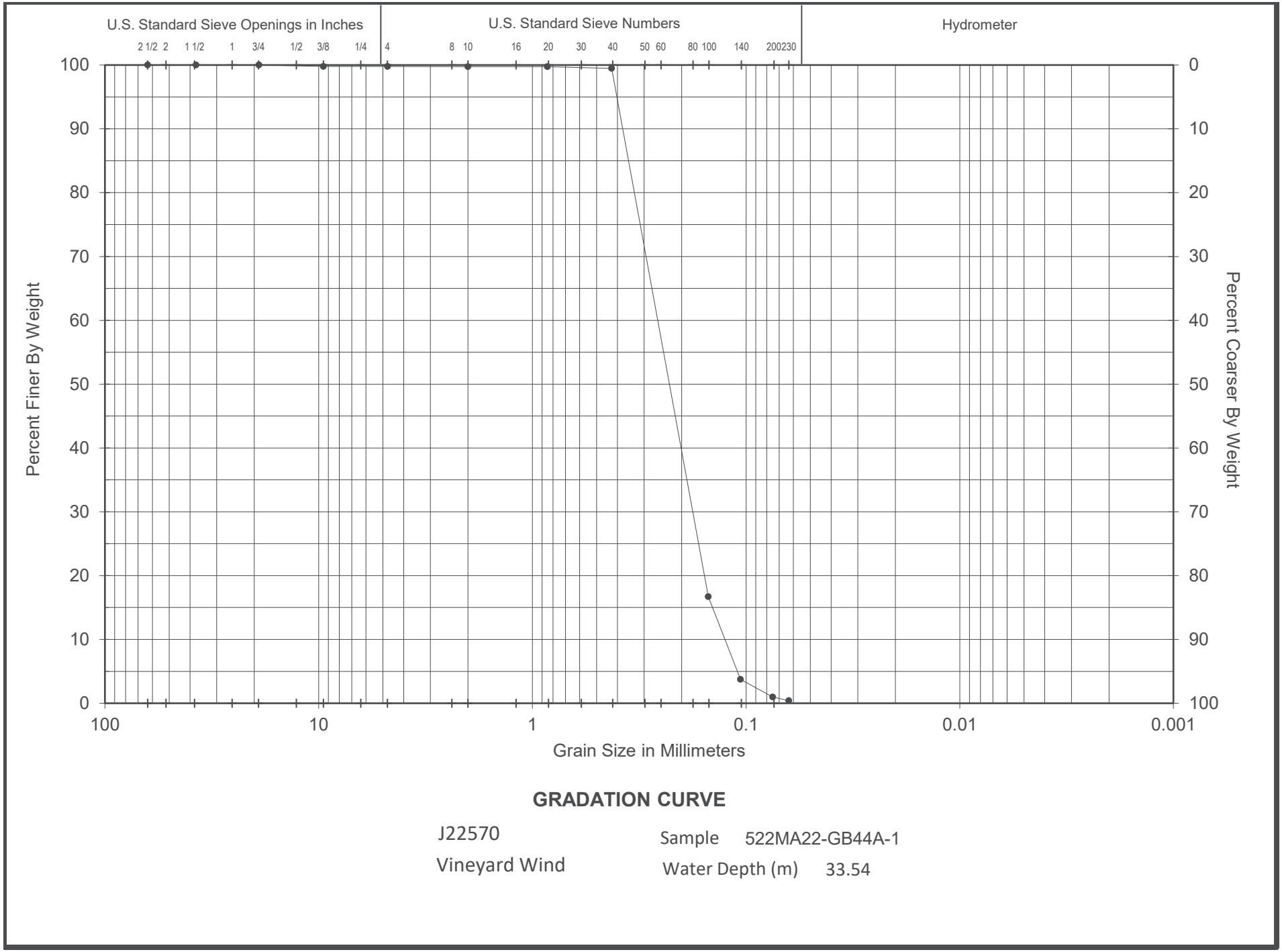
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.78	0.22	
4.75	4	99.78	0.22	
2	10	99.74	0.26	96.30
0.85	20	99.73	0.27	
0.425	40	99.48	0.52	
0.15	100	16.69	83.31	
0.106	140	3.74	96.26	
0.075	200	0.99	99.01	
0.063	230	0.41	99.59	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.74
% Passing #230	0.41
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.25
% Sand	0.0625 - 2.00 mm	99.33
% Silt and Clay	< 0.0625 mm	0.41
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	0.25
% Fine Sand	0.0625 - 0.25 mm	99.06

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.69	0.150	3.74	0.106	0.125
D30	30	99.48	0.425	16.69	0.150	0.177
D50	50	99.48	0.425	16.69	0.150	0.228
D60	60	99.48	0.425	16.69	0.150	0.259

Uniformity Coefficient (Cu)	2.063
Coefficient of Curvature (Cc)	0.970



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB44A-1

Water Depth (m) 33.54

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB44B-1
Water Depth (m)	30.82

Grain Size Data

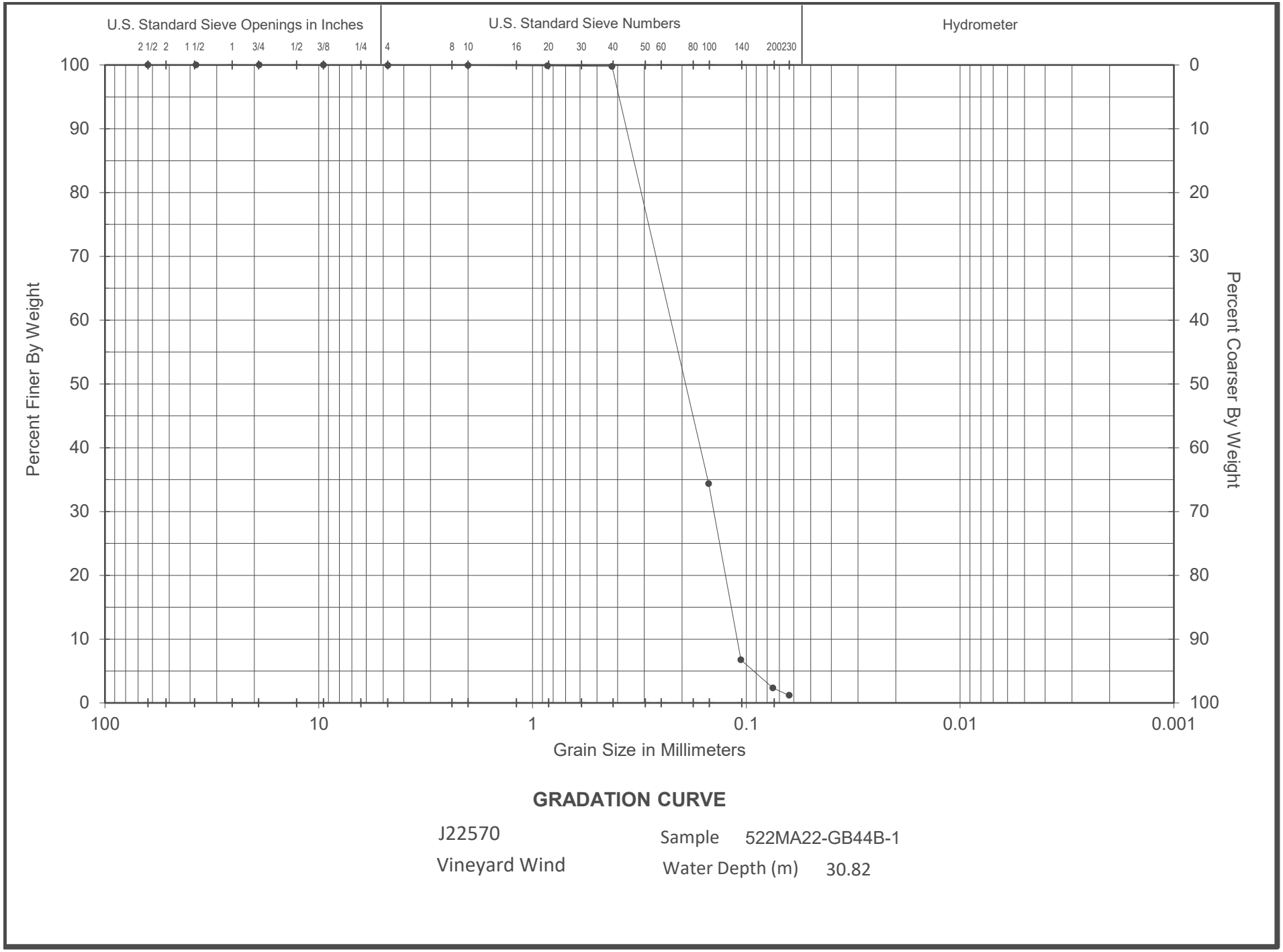
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.95	0.05	
2	10	99.95	0.05	100.00
0.85	20	99.88	0.12	
0.425	40	99.76	0.24	
0.15	100	34.36	65.64	
0.106	140	6.73	93.27	
0.075	200	2.32	97.68	
0.063	230	1.18	98.82	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.95
% Passing #230	1.18
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.05
% Sand	0.0625 - 2.00 mm	98.77
% Silt and Clay	< 0.0625 mm	1.18
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.07
% Medium Sand	0.25 - 0.50 mm	0.12
% Fine Sand	0.0625 - 0.25 mm	98.58

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	34.36	0.150	6.73	0.106	0.110
D30	30	34.36	0.150	6.73	0.106	0.142
D50	50	99.76	0.425	34.36	0.150	0.192
D60	60	99.76	0.425	34.36	0.150	0.226

Uniformity Coefficient (Cu)	2.043
Coefficient of Curvature (Cc)	0.809



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB44B-1

Water Depth (m) 30.82

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB44C-1
Water Depth (m)	31.62

Grain Size Data

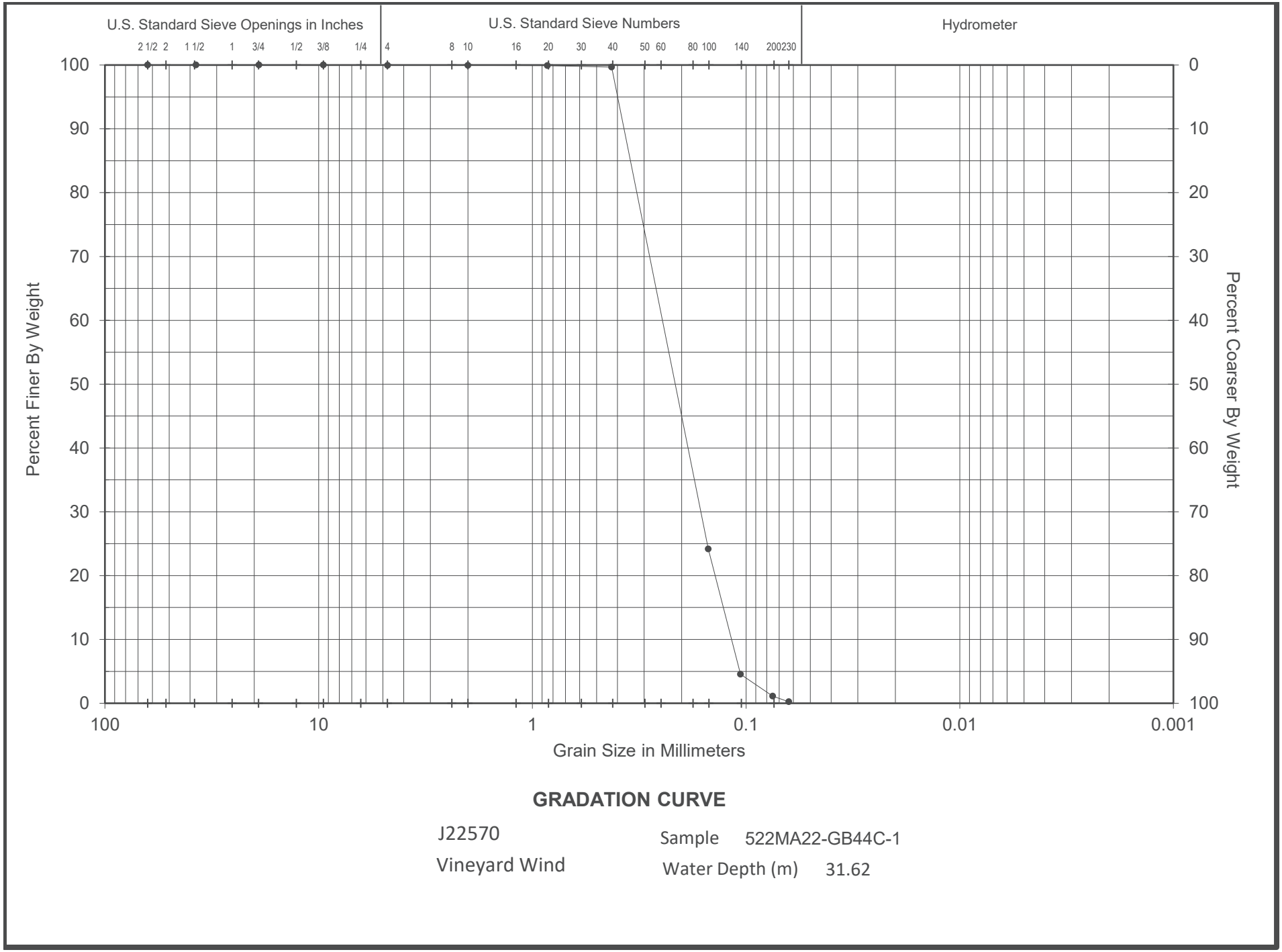
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.96	0.04	
2	10	99.95	0.05	86.67
0.85	20	99.90	0.10	
0.425	40	99.68	0.32	
0.15	100	24.18	75.82	
0.106	140	4.55	95.45	
0.075	200	1.12	98.88	
0.063	230	0.23	99.77	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.95
% Passing #230	0.23
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.72
% Silt and Clay	< 0.0625 mm	0.23
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.06
% Medium Sand	0.25 - 0.50 mm	0.22
% Fine Sand	0.0625 - 0.25 mm	99.45

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.18	0.150	4.55	0.106	0.117
D30	30	99.68	0.425	24.18	0.150	0.163
D50	50	99.68	0.425	24.18	0.150	0.214
D60	60	99.68	0.425	24.18	0.150	0.246

Uniformity Coefficient (Cu)	2.106
Coefficient of Curvature (Cc)	0.921



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB44C-1

Water Depth (m) 31.62

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB45-1
Water Depth (m)	33.54

Grain Size Data

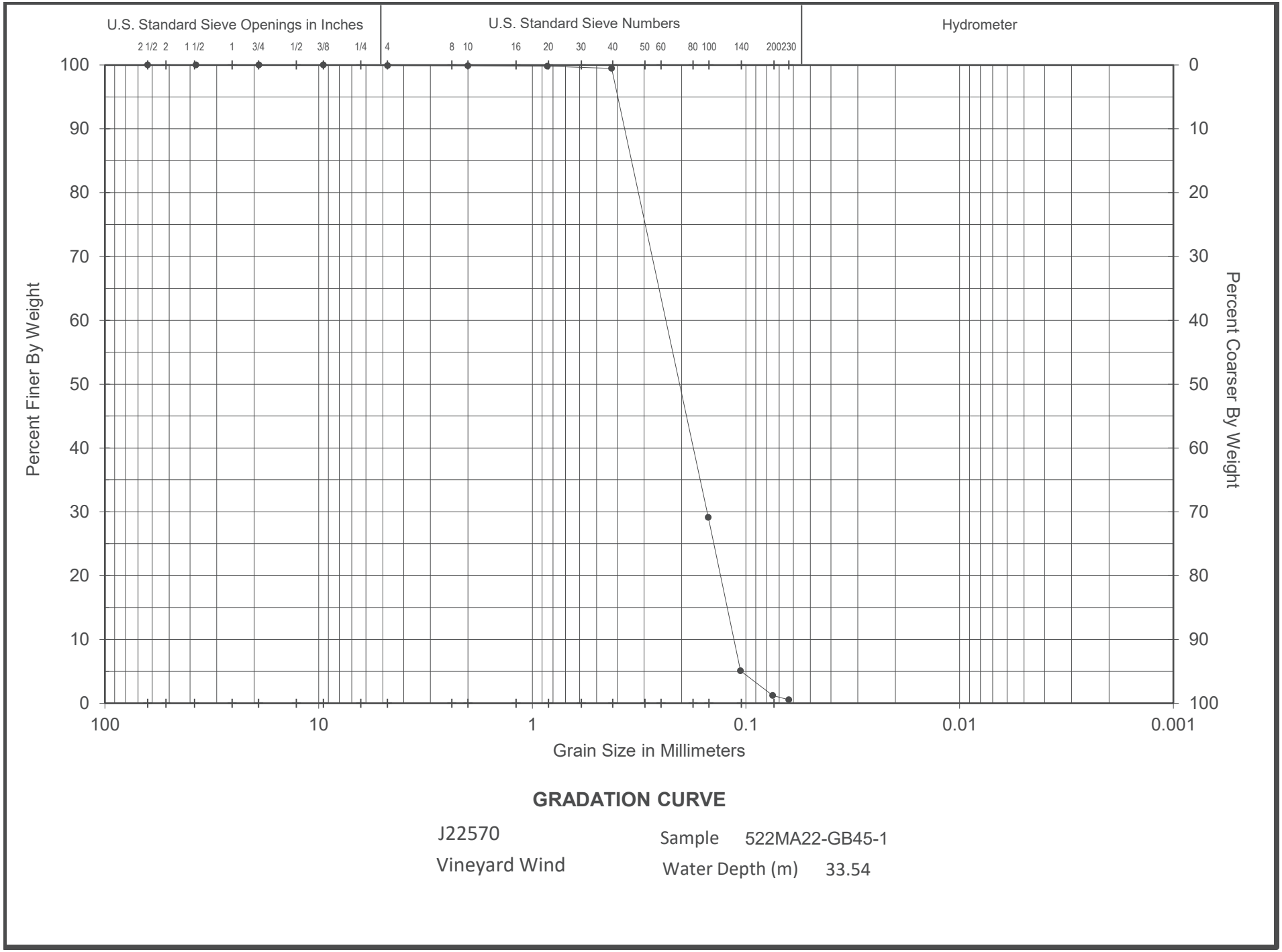
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.89	0.11	
2	10	99.87	0.13	100.00
0.85	20	99.81	0.19	
0.425	40	99.49	0.51	
0.15	100	29.13	70.87	
0.106	140	5.07	94.93	
0.075	200	1.21	98.79	
0.063	230	0.55	99.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.87
% Passing #230	0.55
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.13
% Sand	0.0625 - 2.00 mm	99.32
% Silt and Clay	< 0.0625 mm	0.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.08
% Medium Sand	0.25 - 0.50 mm	0.33
% Fine Sand	0.0625 - 0.25 mm	98.94

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	29.13	0.150	5.07	0.106	0.114
D30	30	99.49	0.425	29.13	0.150	0.152
D50	50	99.49	0.425	29.13	0.150	0.204
D60	60	99.49	0.425	29.13	0.150	0.237

Uniformity Coefficient (Cu)	2.081
Coefficient of Curvature (Cc)	0.856



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB45-1

Water Depth (m) 33.54

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB46A-1
Water Depth (m)	30.44

Grain Size Data

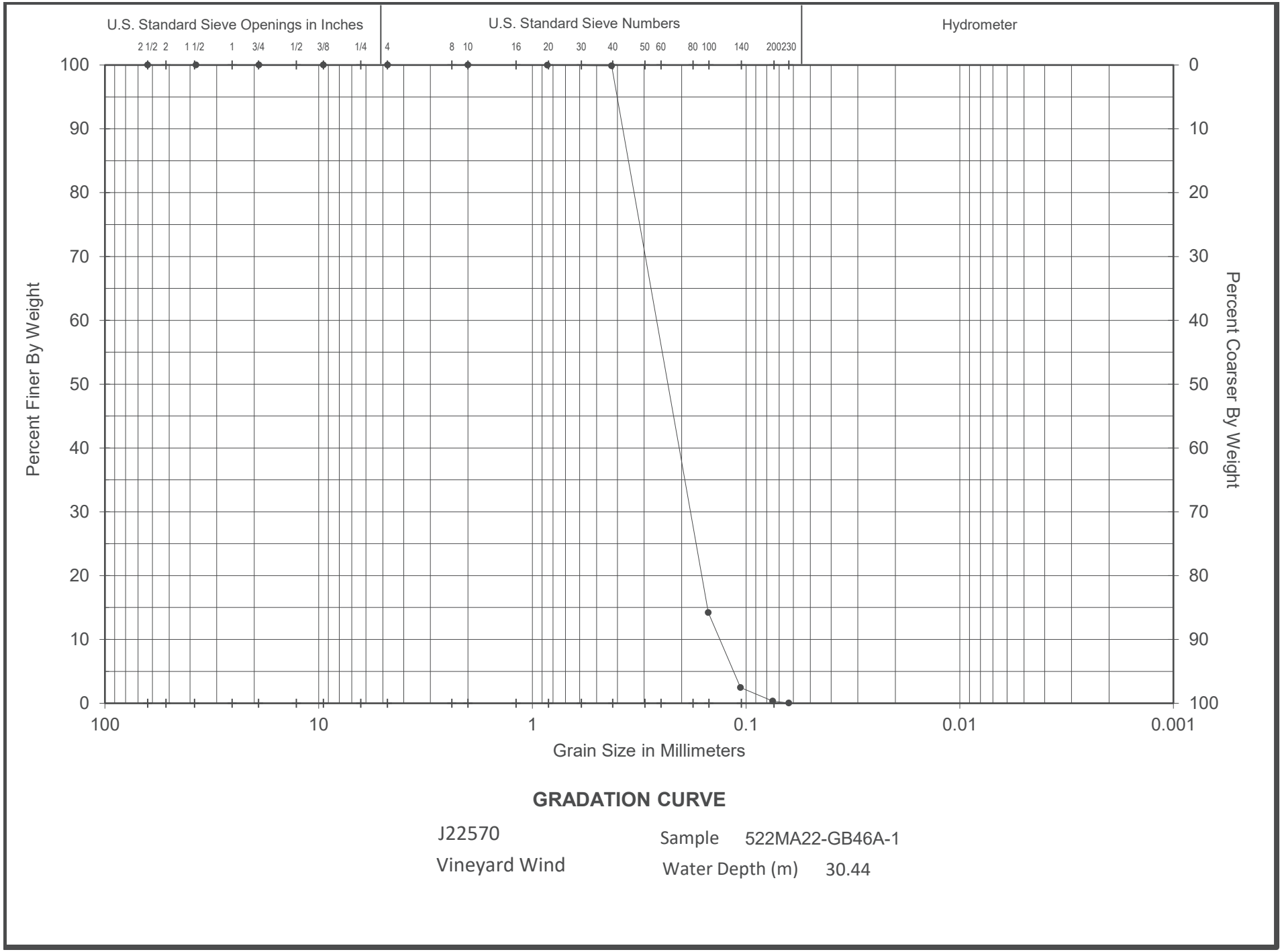
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.97	0.03	
0.425	40	99.89	0.11	
0.15	100	14.22	85.78	
0.106	140	2.47	97.53	
0.075	200	0.34	99.66	
0.063	230	0.05	99.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.95
% Silt and Clay	< 0.0625 mm	0.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.03
% Medium Sand	0.25 - 0.50 mm	0.08
% Fine Sand	0.0625 - 0.25 mm	99.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.22	0.150	2.47	0.106	0.132
D30	30	99.89	0.425	14.22	0.150	0.182
D50	50	99.89	0.425	14.22	0.150	0.232
D60	60	99.89	0.425	14.22	0.150	0.262

Uniformity Coefficient (Cu)	1.976
Coefficient of Curvature (Cc)	0.953



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB46A-1

Water Depth (m) 30.44

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB46B-1
Water Depth (m)	30.39

Grain Size Data

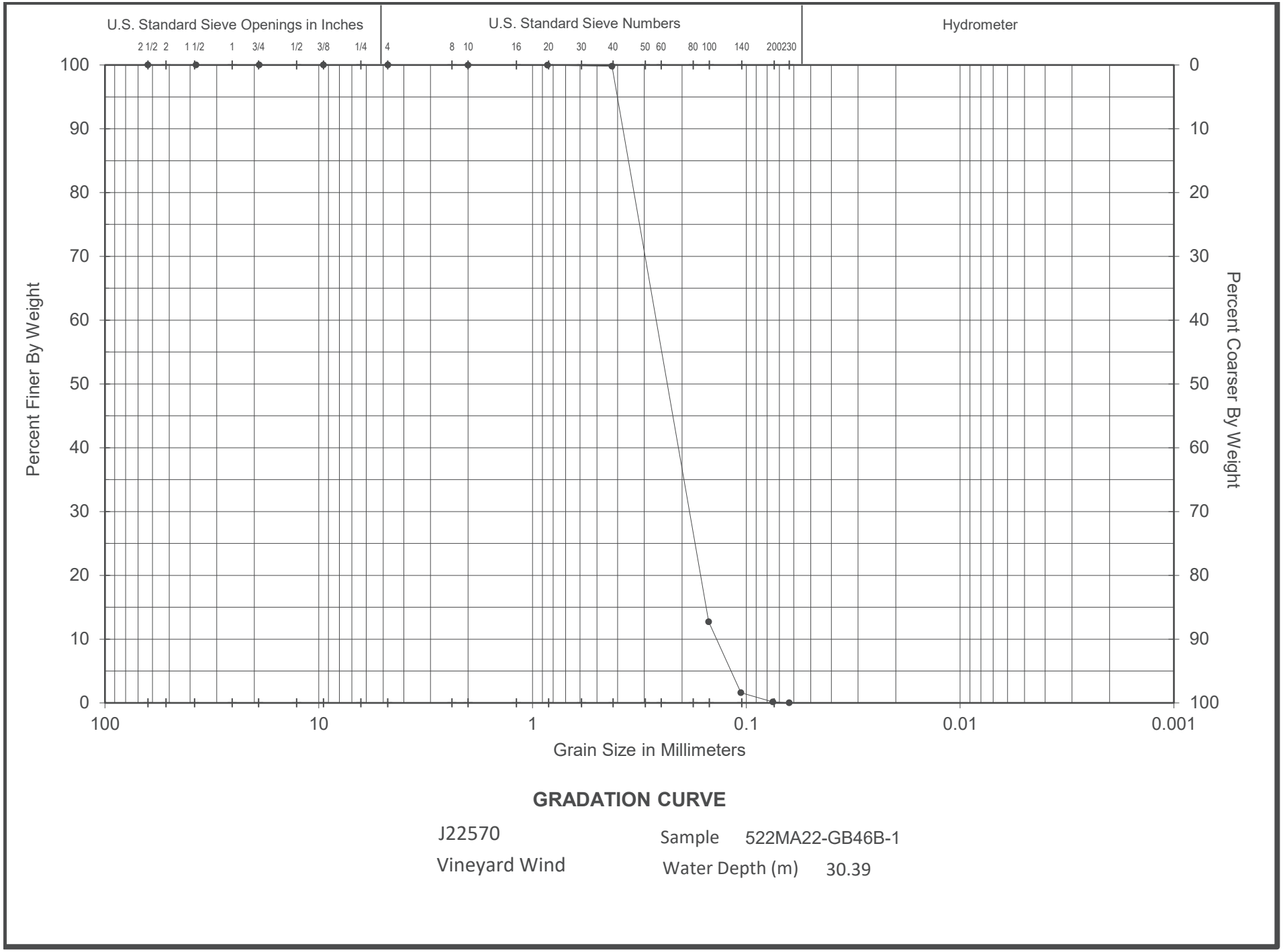
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.96	0.04	
0.425	40	99.79	0.21	
0.15	100	12.71	87.29	
0.106	140	1.60	98.40	
0.075	200	0.14	99.86	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.96
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.17
% Fine Sand	0.0625 - 0.25 mm	99.77

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.71	0.150	1.60	0.106	0.138
D30	30	99.79	0.425	12.71	0.150	0.184
D50	50	99.79	0.425	12.71	0.150	0.234
D60	60	99.79	0.425	12.71	0.150	0.264

Uniformity Coefficient (Cu)	1.916
Coefficient of Curvature (Cc)	0.935



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB46B-1

Water Depth (m) 30.39

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB46C-1
Water Depth (m)	29.99

Grain Size Data

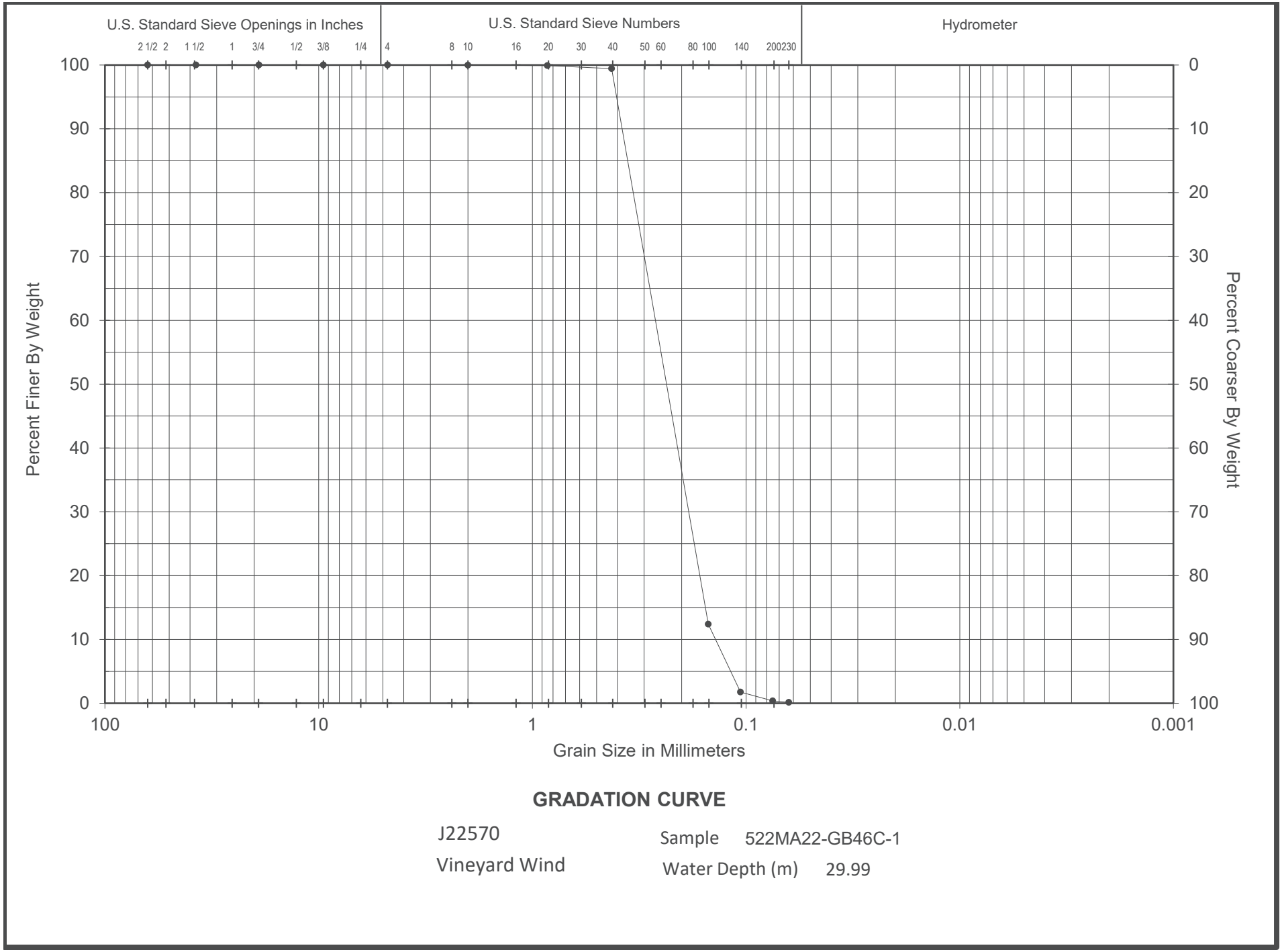
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	100.00
0.85	20	99.93	0.07	
0.425	40	99.43	0.57	
0.15	100	12.39	87.61	
0.106	140	1.77	98.23	
0.075	200	0.37	99.63	
0.063	230	0.14	99.86	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.14
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.82
% Silt and Clay	< 0.0625 mm	0.14
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.07
% Medium Sand	0.25 - 0.50 mm	0.50
% Fine Sand	0.0625 - 0.25 mm	99.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.39	0.150	1.77	0.106	0.139
D30	30	99.43	0.425	12.39	0.150	0.185
D50	50	99.43	0.425	12.39	0.150	0.235
D60	60	99.43	0.425	12.39	0.150	0.265

Uniformity Coefficient (Cu)	1.911
Coefficient of Curvature (Cc)	0.932



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB46C-1

Water Depth (m) 29.99

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB47-1
Water Depth (m)	33.9

Grain Size Data

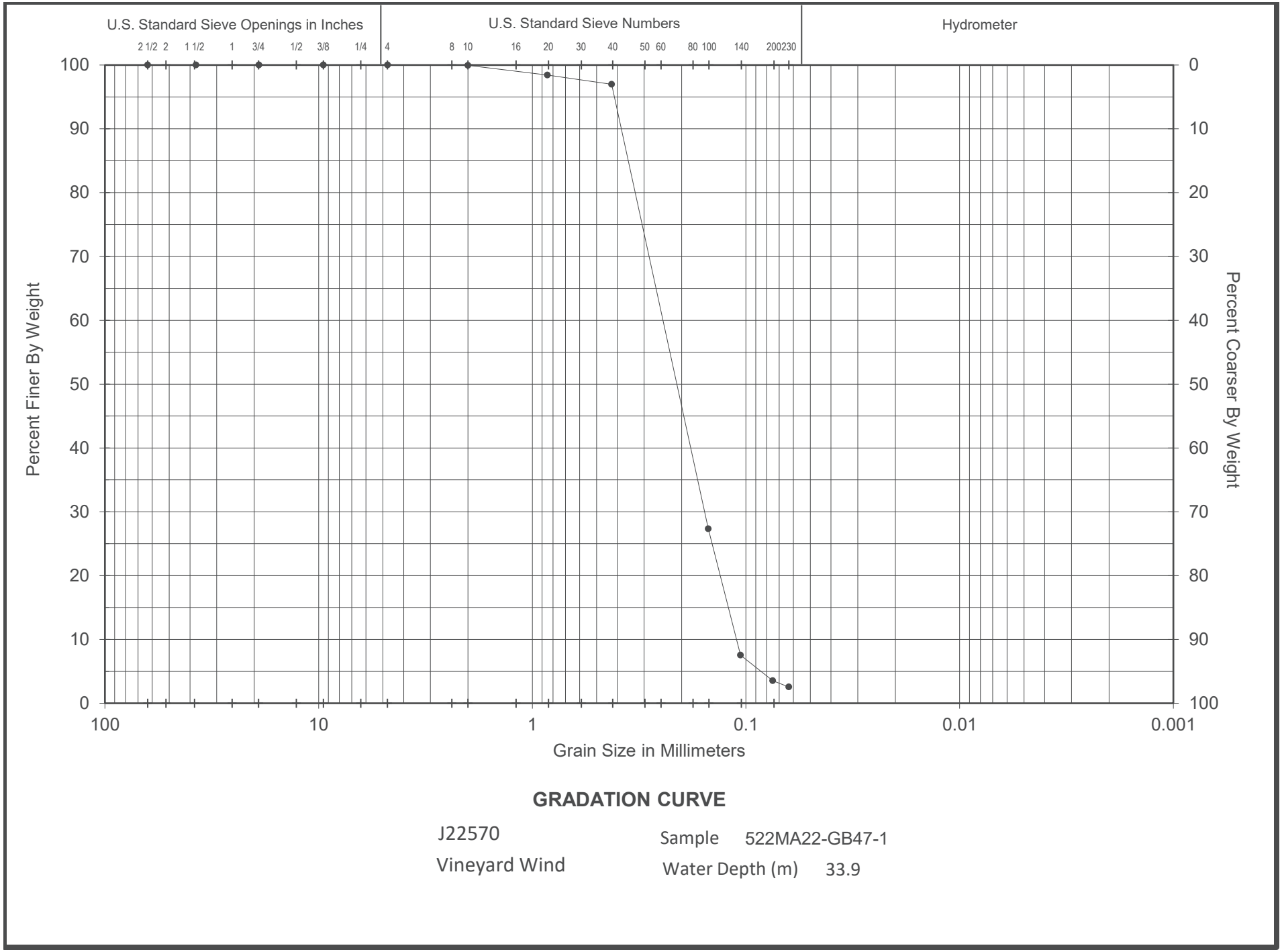
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	100.00
0.85	20	98.43	1.57	
0.425	40	96.97	3.03	
0.15	100	27.34	72.66	
0.106	140	7.56	92.44	
0.075	200	3.52	96.48	
0.063	230	2.55	97.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	2.55
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	97.41
% Silt and Clay	< 0.0625 mm	2.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.57
% Medium Sand	0.25 - 0.50 mm	1.46
% Fine Sand	0.0625 - 0.25 mm	94.42

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	27.34	0.150	7.56	0.106	0.111
D30	30	96.97	0.425	27.34	0.150	0.156
D50	50	96.97	0.425	27.34	0.150	0.211
D60	60	96.97	0.425	27.34	0.150	0.244

Uniformity Coefficient (Cu)	2.210
Coefficient of Curvature (Cc)	0.901



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB47-1

Water Depth (m) 33.9

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB48A-1
Water Depth (m)	36.77

Grain Size Data

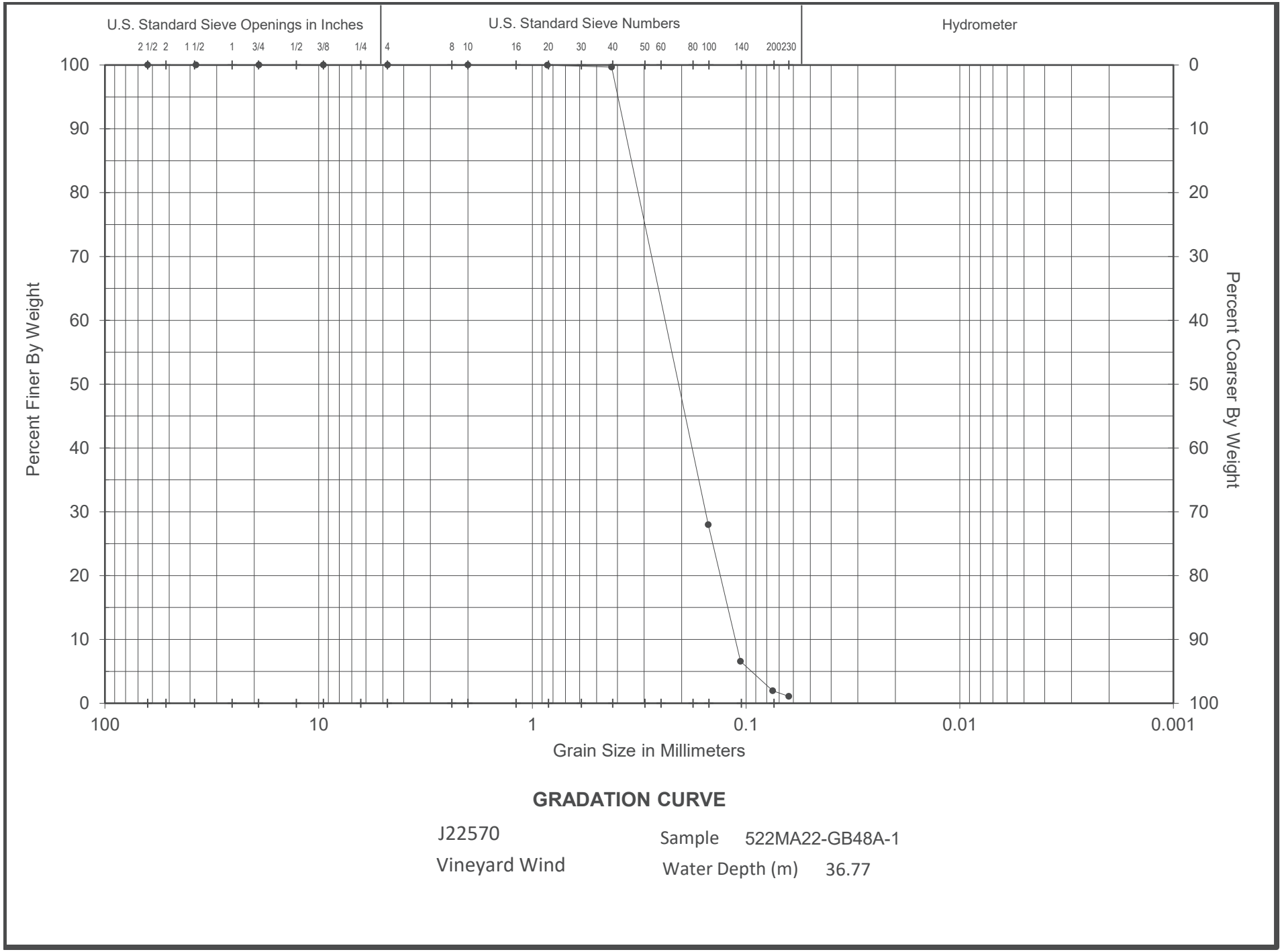
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.96	0.04	
0.425	40	99.66	0.34	
0.15	100	27.97	72.03	
0.106	140	6.56	93.44	
0.075	200	1.97	98.03	
0.063	230	1.08	98.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	1.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	98.92
% Silt and Clay	< 0.0625 mm	1.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.30
% Fine Sand	0.0625 - 0.25 mm	98.58

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	27.97	0.150	6.56	0.106	0.112
D30	30	99.66	0.425	27.97	0.150	0.154
D50	50	99.66	0.425	27.97	0.150	0.207
D60	60	99.66	0.425	27.97	0.150	0.239

Uniformity Coefficient (Cu)	2.131
Coefficient of Curvature (Cc)	0.891



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB48A-1

Water Depth (m) 36.77

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB48B-1
Water Depth (m)	36.48

Grain Size Data

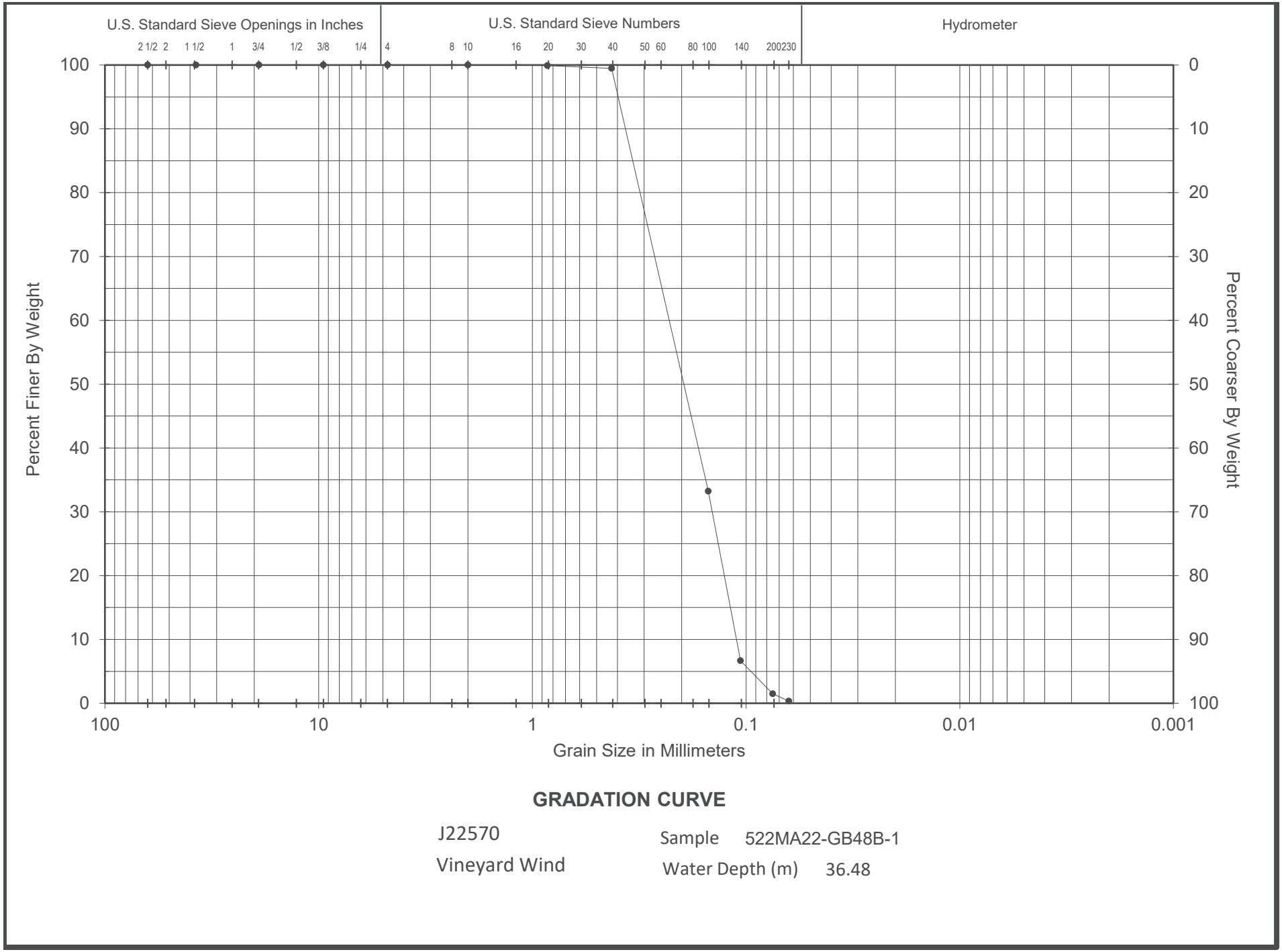
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	100.00
0.85	20	99.91	0.09	
0.425	40	99.47	0.53	
0.15	100	33.24	66.76	
0.106	140	6.68	93.32	
0.075	200	1.48	98.52	
0.063	230	0.34	99.66	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.34
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.66
% Silt and Clay	< 0.0625 mm	0.34
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.09
% Medium Sand	0.25 - 0.50 mm	0.44
% Fine Sand	0.0625 - 0.25 mm	99.13

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.24	0.150	6.68	0.106	0.111
D30	30	33.24	0.150	6.68	0.106	0.144
D50	50	99.47	0.425	33.24	0.150	0.195
D60	60	99.47	0.425	33.24	0.150	0.228

Uniformity Coefficient (Cu)	2.064
Coefficient of Curvature (Cc)	0.817



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB48B-1

Water Depth (m) 36.48

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB48C-1
Water Depth (m)	36.53

Grain Size Data

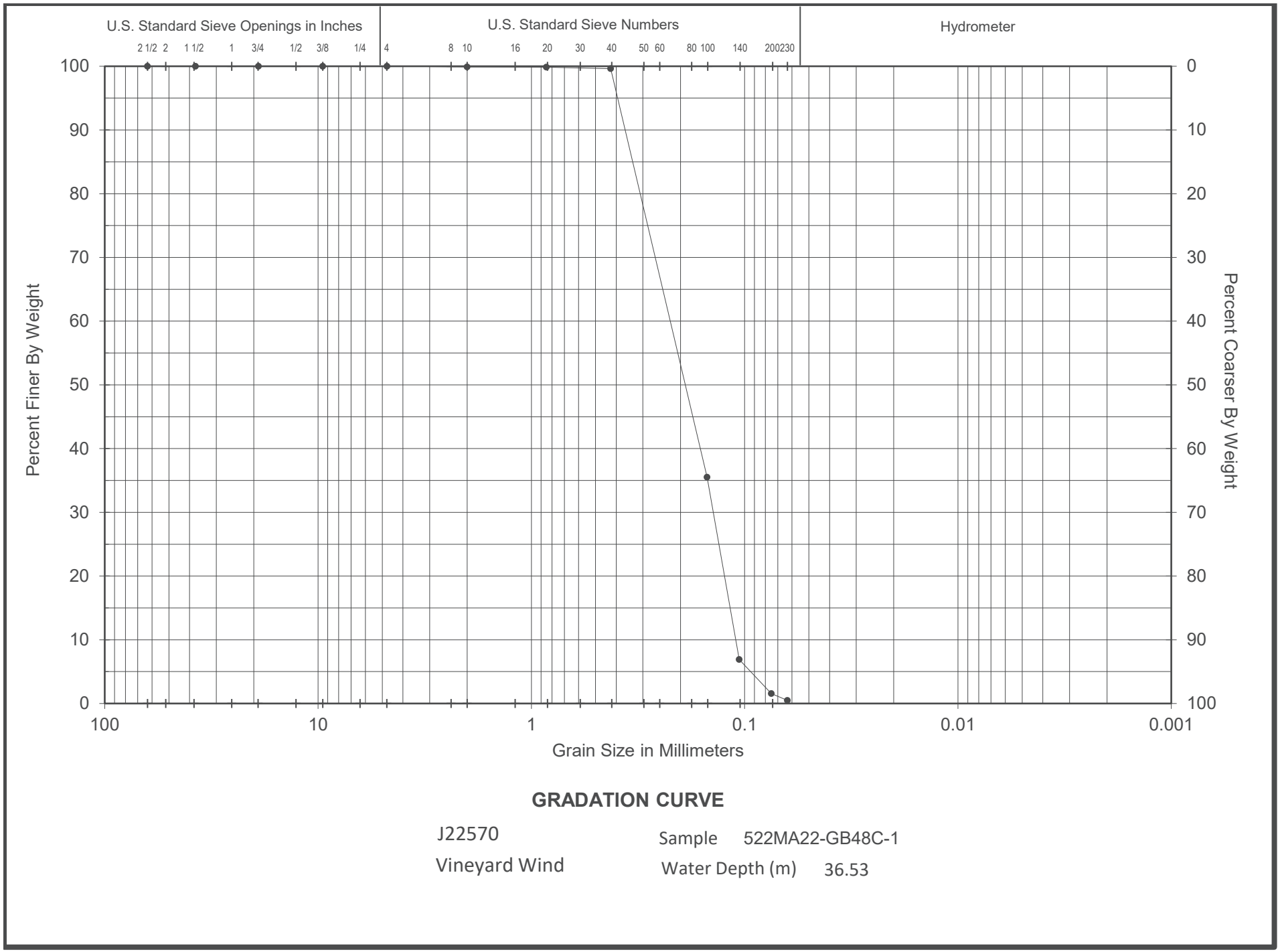
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.89	0.11	100.00
0.85	20	99.85	0.15	
0.425	40	99.61	0.39	
0.15	100	35.51	64.49	
0.106	140	6.91	93.09	
0.075	200	1.55	98.45	
0.063	230	0.49	99.51	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.89
% Passing #230	0.49
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.11
% Sand	0.0625 - 2.00 mm	99.39
% Silt and Clay	< 0.0625 mm	0.49
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.15
% Medium Sand	0.25 - 0.50 mm	0.25
% Fine Sand	0.0625 - 0.25 mm	99.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	35.51	0.150	6.91	0.106	0.110
D30	30	35.51	0.150	6.91	0.106	0.140
D50	50	99.61	0.425	35.51	0.150	0.190
D60	60	99.61	0.425	35.51	0.150	0.223

Uniformity Coefficient (Cu)	2.029
Coefficient of Curvature (Cc)	0.801



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB48C-1

Water Depth (m) 36.53

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB49A-1
Water Depth (m)	--

Grain Size Data

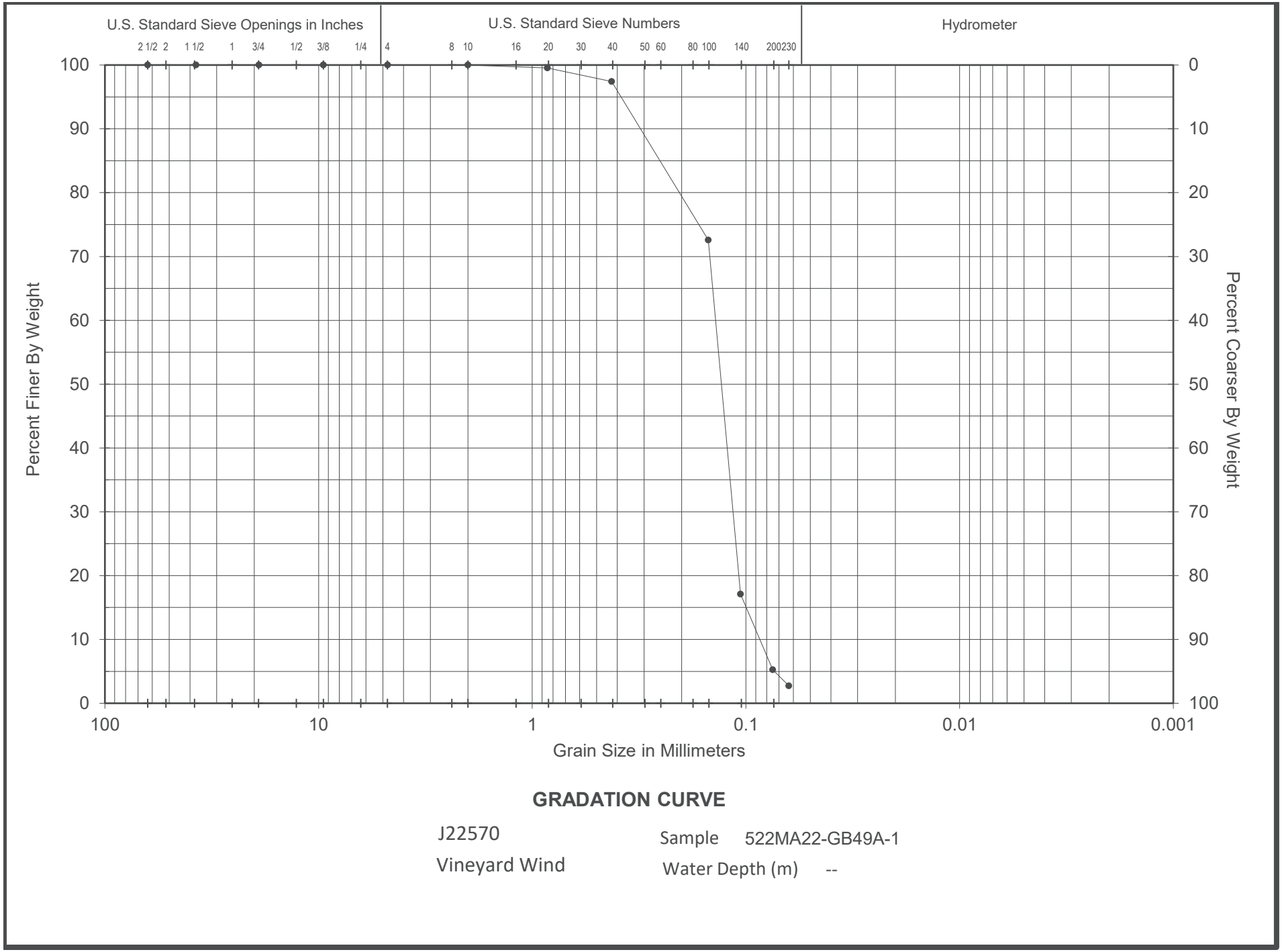
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.56	0.44	
0.425	40	97.42	2.58	
0.15	100	72.57	27.43	
0.106	140	17.11	82.89	
0.075	200	5.24	94.76	
0.063	230	2.74	97.26	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	2.74
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.26
% Silt and Clay	< 0.0625 mm	2.74
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.44
% Medium Sand	0.25 - 0.50 mm	2.13
% Fine Sand	0.0625 - 0.25 mm	94.68

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.11	0.106	5.24	0.075	0.086
D30	30	72.57	0.150	17.11	0.106	0.115
D50	50	72.57	0.150	17.11	0.106	0.130
D60	60	72.57	0.150	17.11	0.106	0.139

Uniformity Coefficient (Cu)	1.609
Coefficient of Curvature (Cc)	1.105



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB49A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB49B-1
Water Depth (m)	--

Grain Size Data

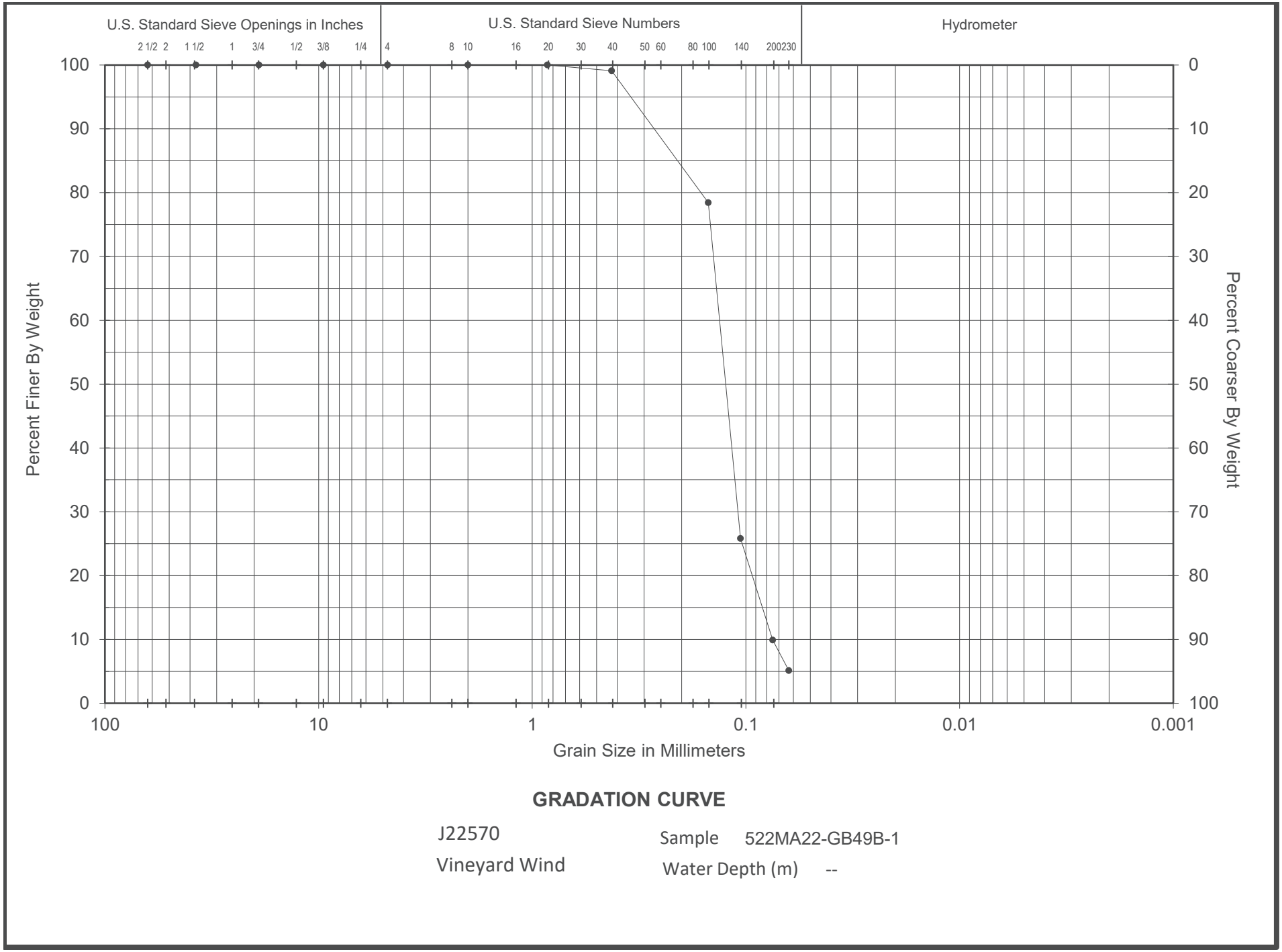
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	99.12	0.88	
0.15	100	78.42	21.58	
0.106	140	25.81	74.19	
0.075	200	9.90	90.10	
0.063	230	5.13	94.87	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	5.13
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.87
% Silt and Clay	< 0.0625 mm	5.13
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.88
% Fine Sand	0.0625 - 0.25 mm	93.99

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	25.81	0.106	9.90	0.075	0.075
D30	30	78.42	0.150	25.81	0.106	0.109
D50	50	78.42	0.150	25.81	0.106	0.124
D60	60	78.42	0.150	25.81	0.106	0.133

Uniformity Coefficient (Cu)	1.767
Coefficient of Curvature (Cc)	1.189



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB49B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB49C-1
Water Depth (m)	--

Grain Size Data

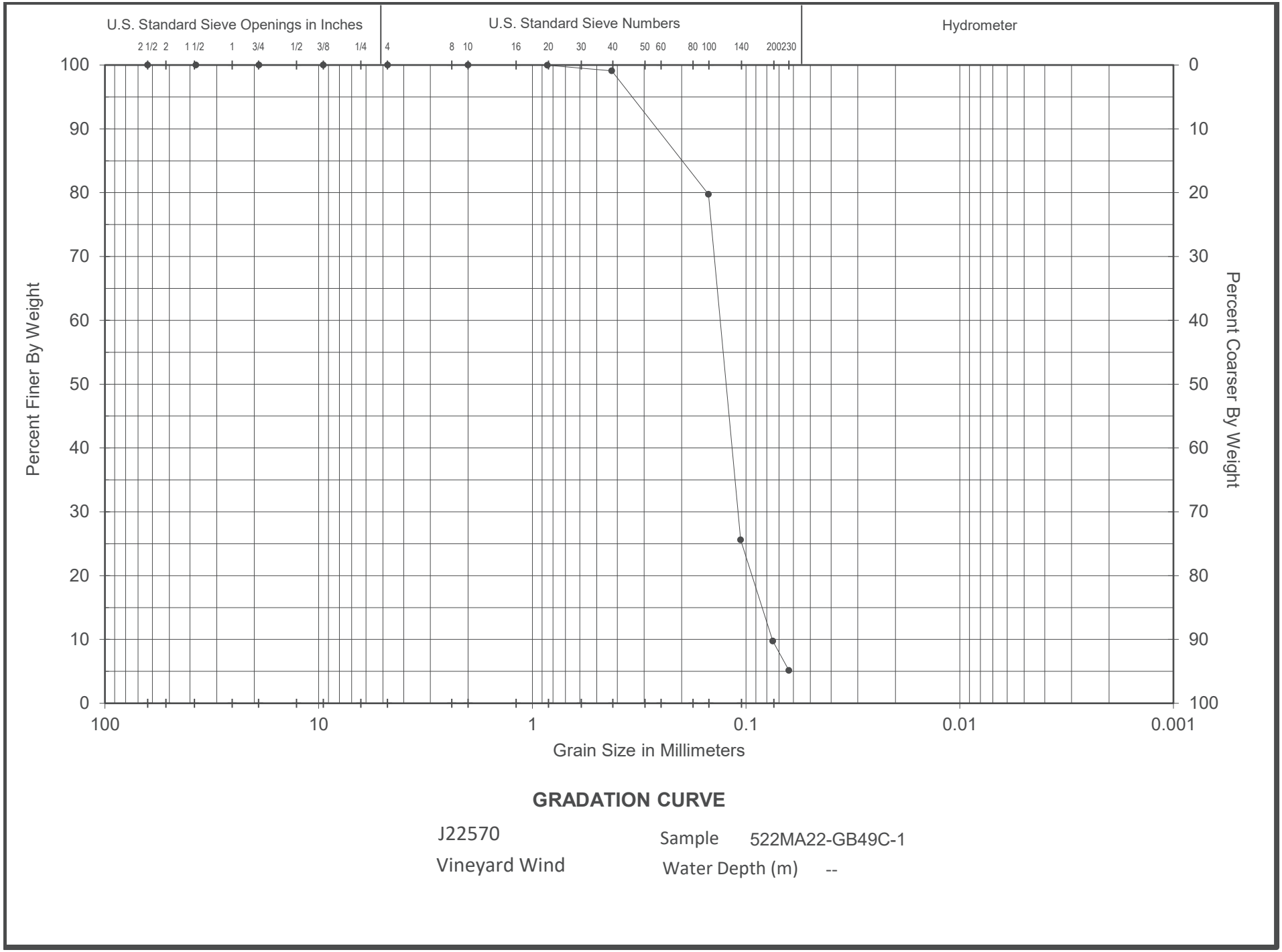
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.98	0.02	
0.425	40	99.10	0.90	
0.15	100	79.74	20.26	
0.106	140	25.61	74.39	
0.075	200	9.74	90.26	
0.063	230	5.16	94.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	5.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.84
% Silt and Clay	< 0.0625 mm	5.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.02
% Medium Sand	0.25 - 0.50 mm	0.88
% Fine Sand	0.0625 - 0.25 mm	93.94

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	25.61	0.106	9.74	0.075	0.075
D30	30	79.74	0.150	25.61	0.106	0.109
D50	50	79.74	0.150	25.61	0.106	0.124
D60	60	79.74	0.150	25.61	0.106	0.132

Uniformity Coefficient (Cu)	1.752
Coefficient of Curvature (Cc)	1.192



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB49C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB50A-1
Water Depth (m)	--

Grain Size Data

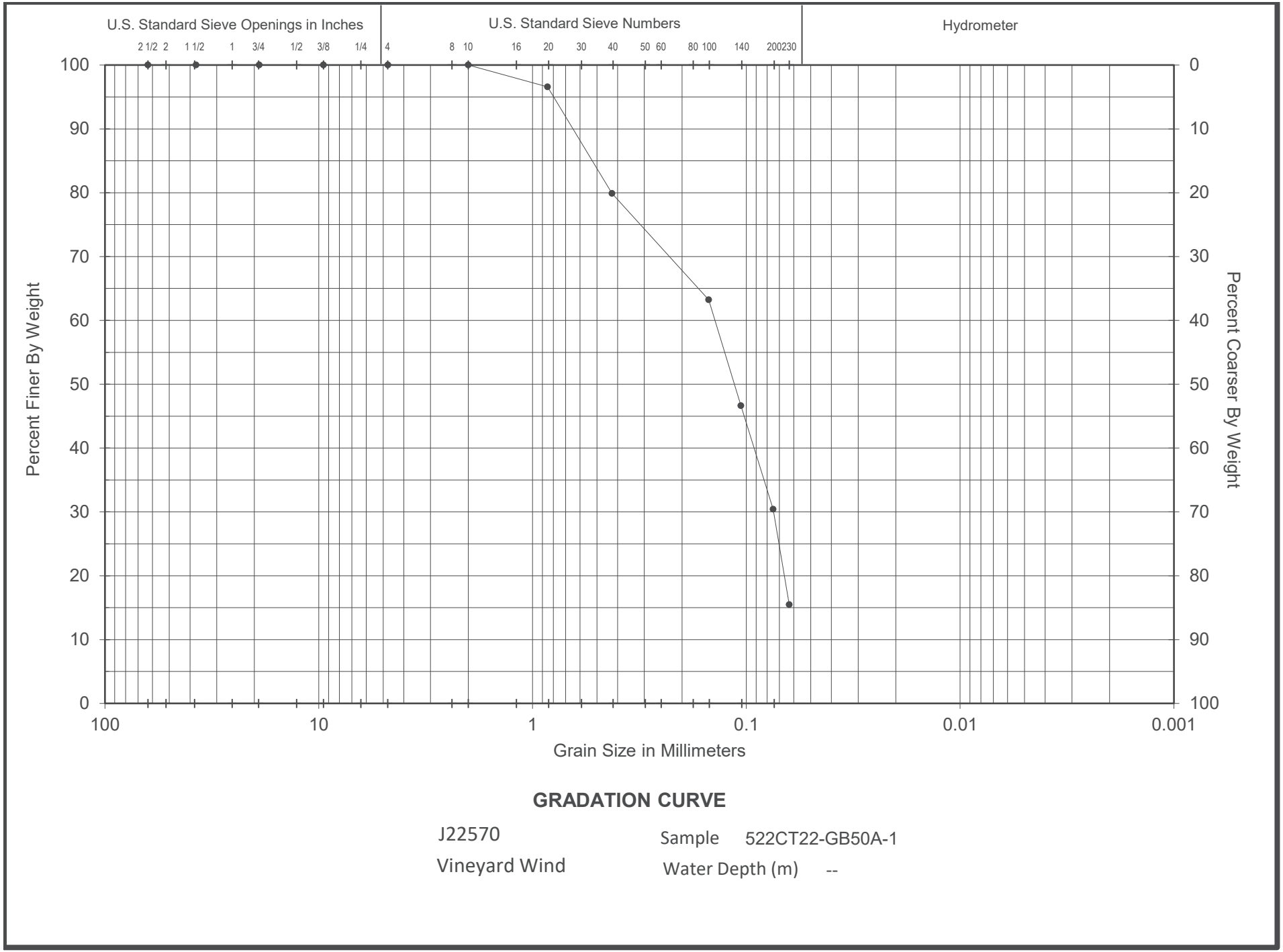
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	96.58	3.42	
0.425	40	79.90	20.10	
0.15	100	63.24	36.76	
0.106	140	46.62	53.38	
0.075	200	30.41	69.59	
0.063	230	15.47	84.53	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	15.47
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	84.53
% Silt and Clay	< 0.0625 mm	15.47
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.42
% Medium Sand	0.25 - 0.50 mm	16.68
% Fine Sand	0.0625 - 0.25 mm	64.43

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.47	0.063	#N/A	#N/A	#N/A
D30	30	30.41	0.075	15.47	0.063	0.075
D50	50	63.24	0.150	46.62	0.106	0.114
D60	60	63.24	0.150	46.62	0.106	0.140

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB50A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB50B-1
Water Depth (m)	--

Grain Size Data

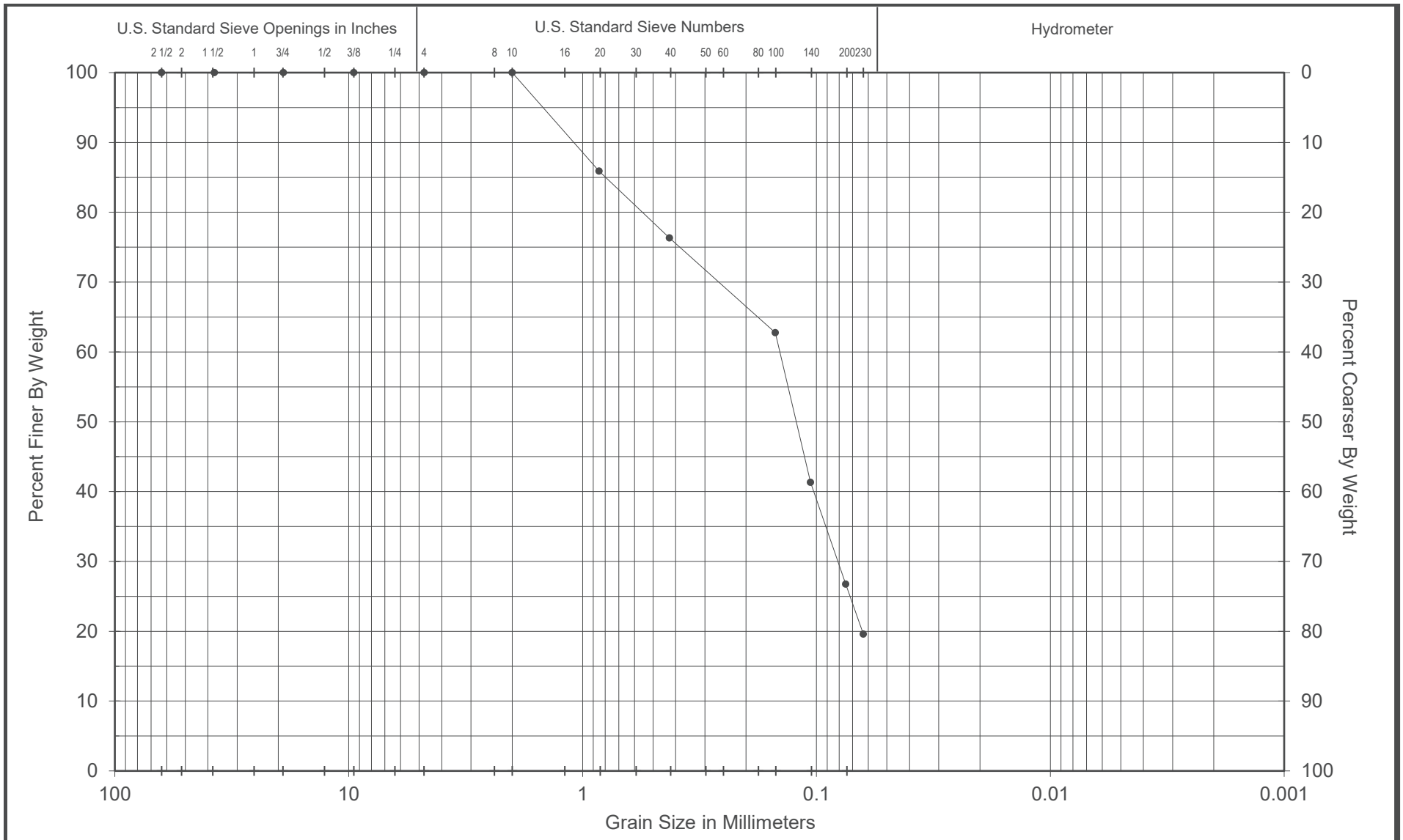
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	85.88	14.12	
0.425	40	76.32	23.68	
0.15	100	62.75	37.25	
0.106	140	41.33	58.67	
0.075	200	26.74	73.26	
0.063	230	19.60	80.40	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	19.60
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	80.40
% Silt and Clay	< 0.0625 mm	19.60
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.12
% Medium Sand	0.25 - 0.50 mm	9.56
% Fine Sand	0.0625 - 0.25 mm	56.72

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.60	0.063	#N/A	#N/A	#N/A
D30	30	41.33	0.106	26.74	0.075	0.081
D50	50	62.75	0.150	41.33	0.106	0.122
D60	60	62.75	0.150	41.33	0.106	0.143

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB50B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB50C-1
Water Depth (m)	--

Grain Size Data

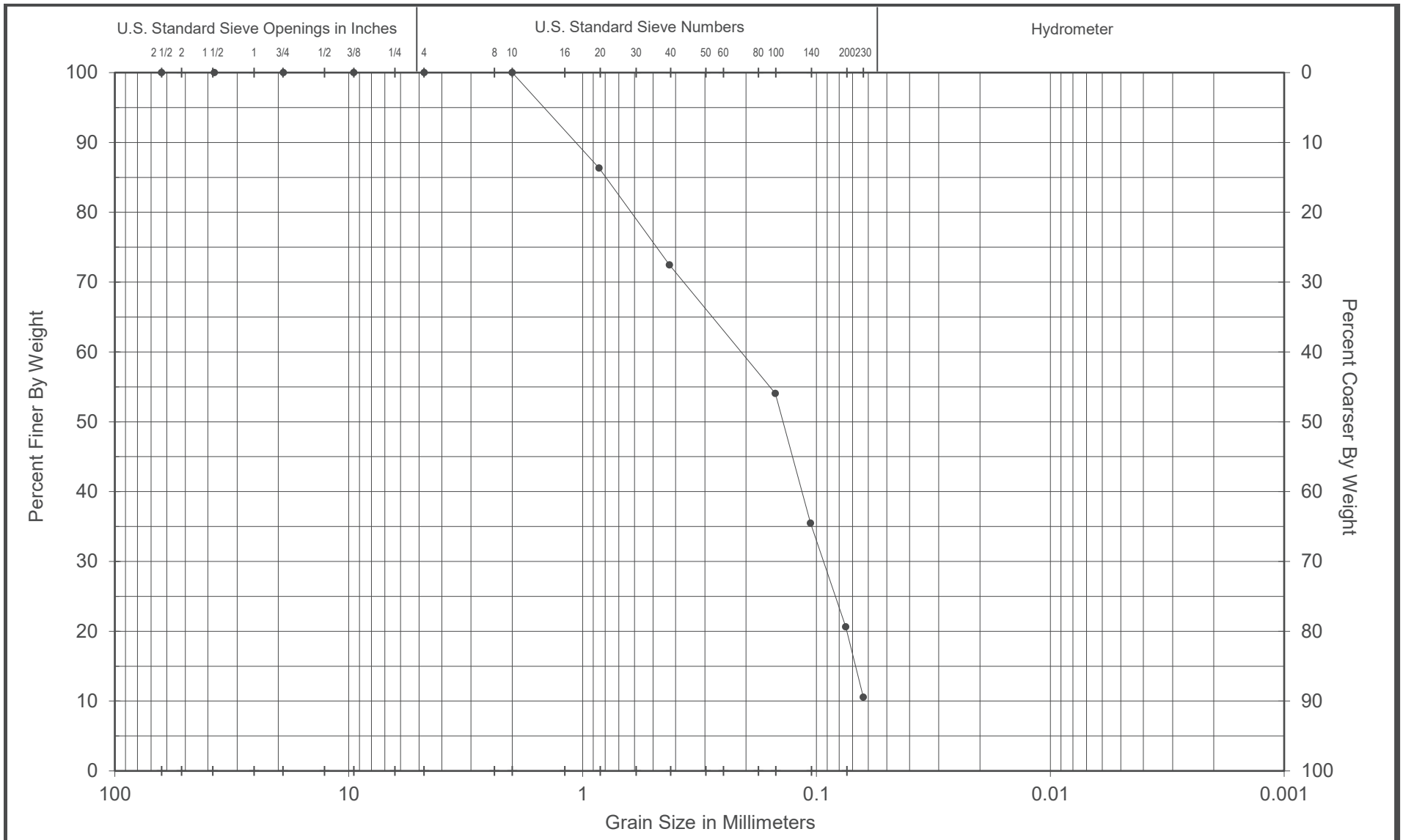
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	86.33	13.67	
0.425	40	72.46	27.54	
0.15	100	54.06	45.94	
0.106	140	35.48	64.52	
0.075	200	20.62	79.38	
0.063	230	10.55	89.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	10.55
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	89.45
% Silt and Clay	< 0.0625 mm	10.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	13.67
% Medium Sand	0.25 - 0.50 mm	13.87
% Fine Sand	0.0625 - 0.25 mm	61.91

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	10.55	0.063	#N/A	#N/A	#N/A
D30	30	35.48	0.106	20.62	0.075	0.093
D50	50	54.06	0.150	35.48	0.106	0.139
D60	60	72.46	0.425	54.06	0.150	0.210

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB50C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB51A-1
Water Depth (m)	--

Grain Size Data

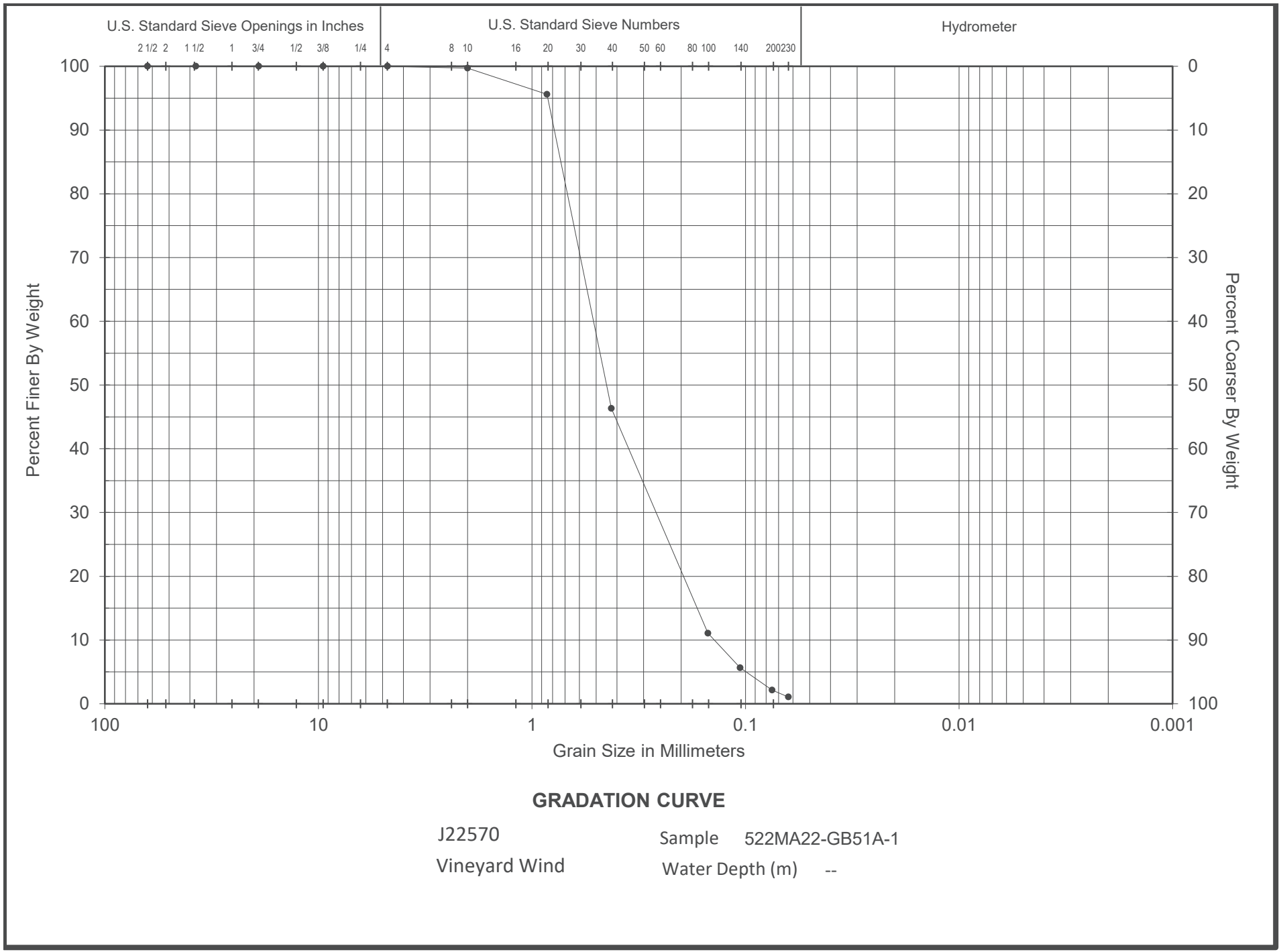
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.70	0.30	50.00
0.85	20	95.61	4.39	
0.425	40	46.32	53.68	
0.15	100	11.07	88.93	
0.106	140	5.63	94.37	
0.075	200	2.13	97.87	
0.063	230	1.06	98.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.70
% Passing #230	1.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.15
% Gravel-Sized Shell	> 2.00 mm	0.15
% Sand	0.0625 - 2.00 mm	98.64
% Silt and Clay	< 0.0625 mm	1.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.39
% Medium Sand	0.25 - 0.50 mm	49.29
% Fine Sand	0.0625 - 0.25 mm	45.26

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.07	0.150	5.63	0.106	0.140
D30	30	46.32	0.425	11.07	0.150	0.262
D50	50	95.61	0.850	46.32	0.425	0.448
D60	60	95.61	0.850	46.32	0.425	0.515

Uniformity Coefficient (Cu)	3.678
Coefficient of Curvature (Cc)	0.954



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB51A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB51B-1
Water Depth (m)	--

Grain Size Data

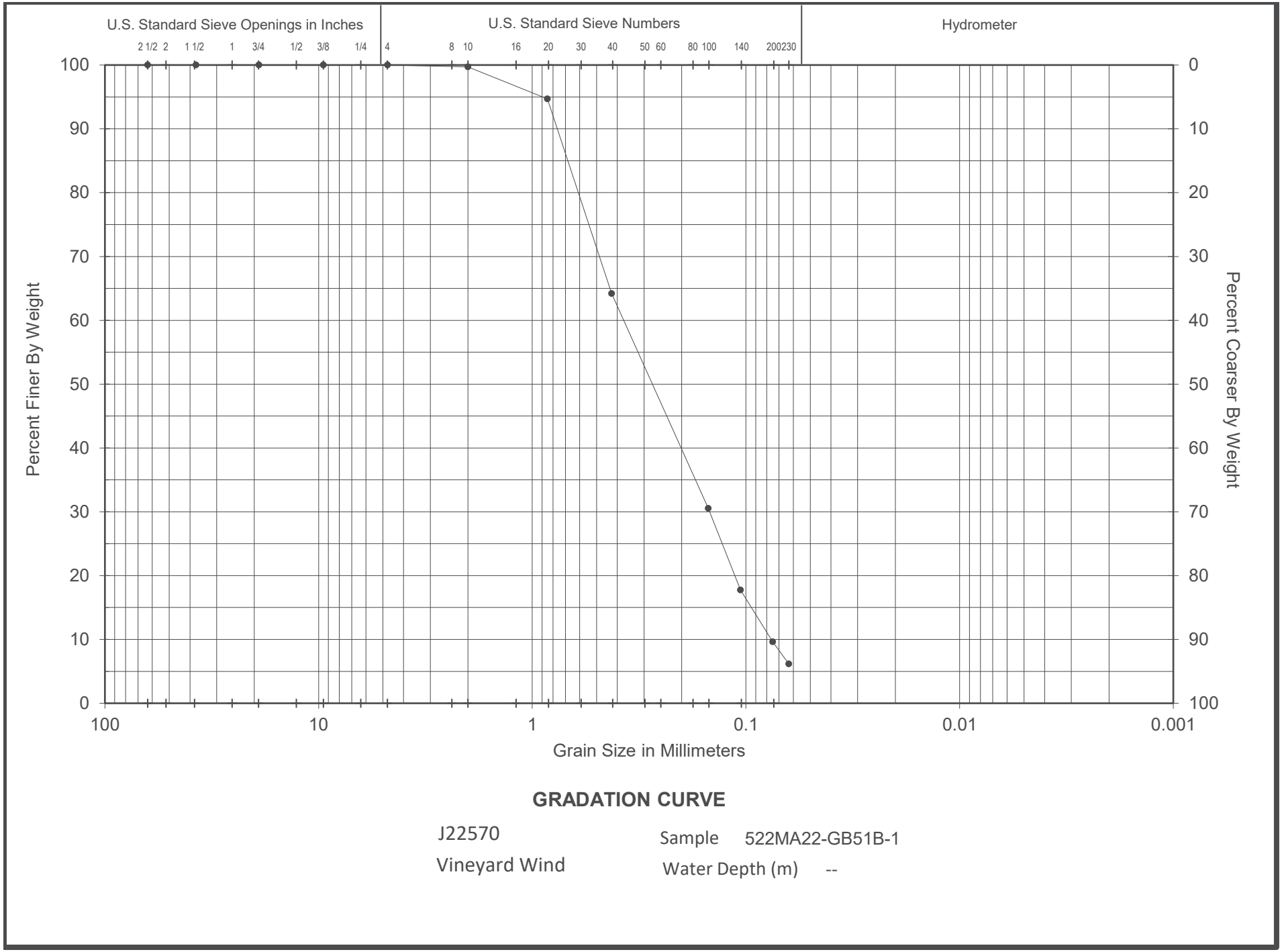
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.70	0.30	0.00
0.85	20	94.70	5.30	
0.425	40	64.19	35.81	
0.15	100	30.52	69.48	
0.106	140	17.73	82.27	
0.075	200	9.61	90.39	
0.063	230	6.16	93.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.70
% Passing #230	6.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.30
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	93.54
% Silt and Clay	< 0.0625 mm	6.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.30
% Medium Sand	0.25 - 0.50 mm	30.51
% Fine Sand	0.0625 - 0.25 mm	58.03

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.73	0.106	9.61	0.075	0.076
D30	30	30.52	0.150	17.73	0.106	0.148
D50	50	64.19	0.425	30.52	0.150	0.274
D60	60	64.19	0.425	30.52	0.150	0.373

Uniformity Coefficient (Cu)	4.897
Coefficient of Curvature (Cc)	0.768



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB51B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB51C-1
Water Depth (m)	--

Grain Size Data

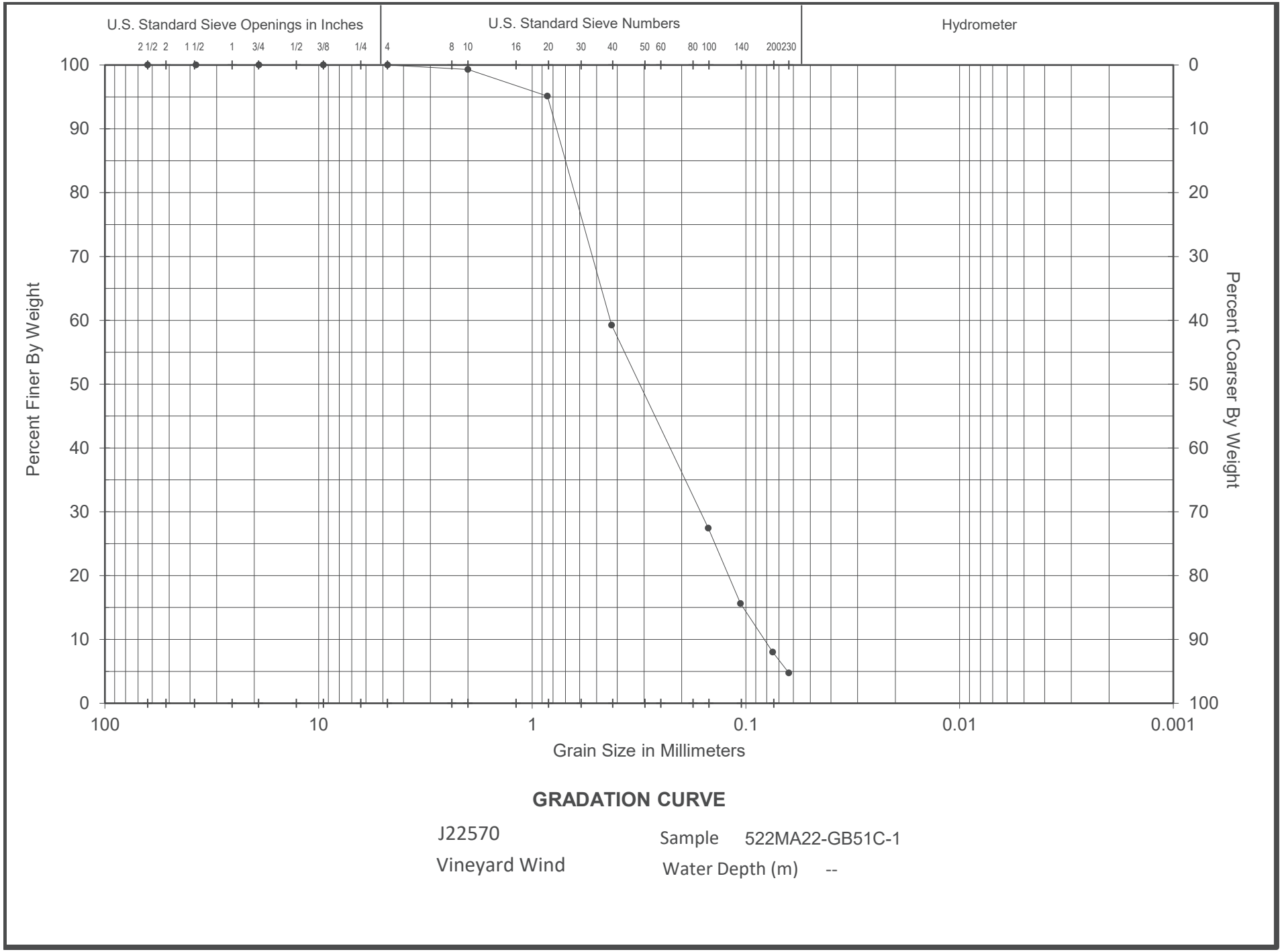
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.29	0.71	0.00
0.85	20	95.12	4.88	
0.425	40	59.25	40.75	
0.15	100	27.44	72.56	
0.106	140	15.62	84.38	
0.075	200	8.02	91.98	
0.063	230	4.76	95.24	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.29
% Passing #230	4.76
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.71
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.53
% Silt and Clay	< 0.0625 mm	4.76
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.88
% Medium Sand	0.25 - 0.50 mm	35.87
% Fine Sand	0.0625 - 0.25 mm	54.49

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.62	0.106	8.02	0.075	0.082
D30	30	59.25	0.425	27.44	0.150	0.163
D50	50	59.25	0.425	27.44	0.150	0.314
D60	60	95.12	0.850	59.25	0.425	0.431

Uniformity Coefficient (Cu)	5.254
Coefficient of Curvature (Cc)	0.752



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB51C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB52A-1
Water Depth (m)	--

Grain Size Data

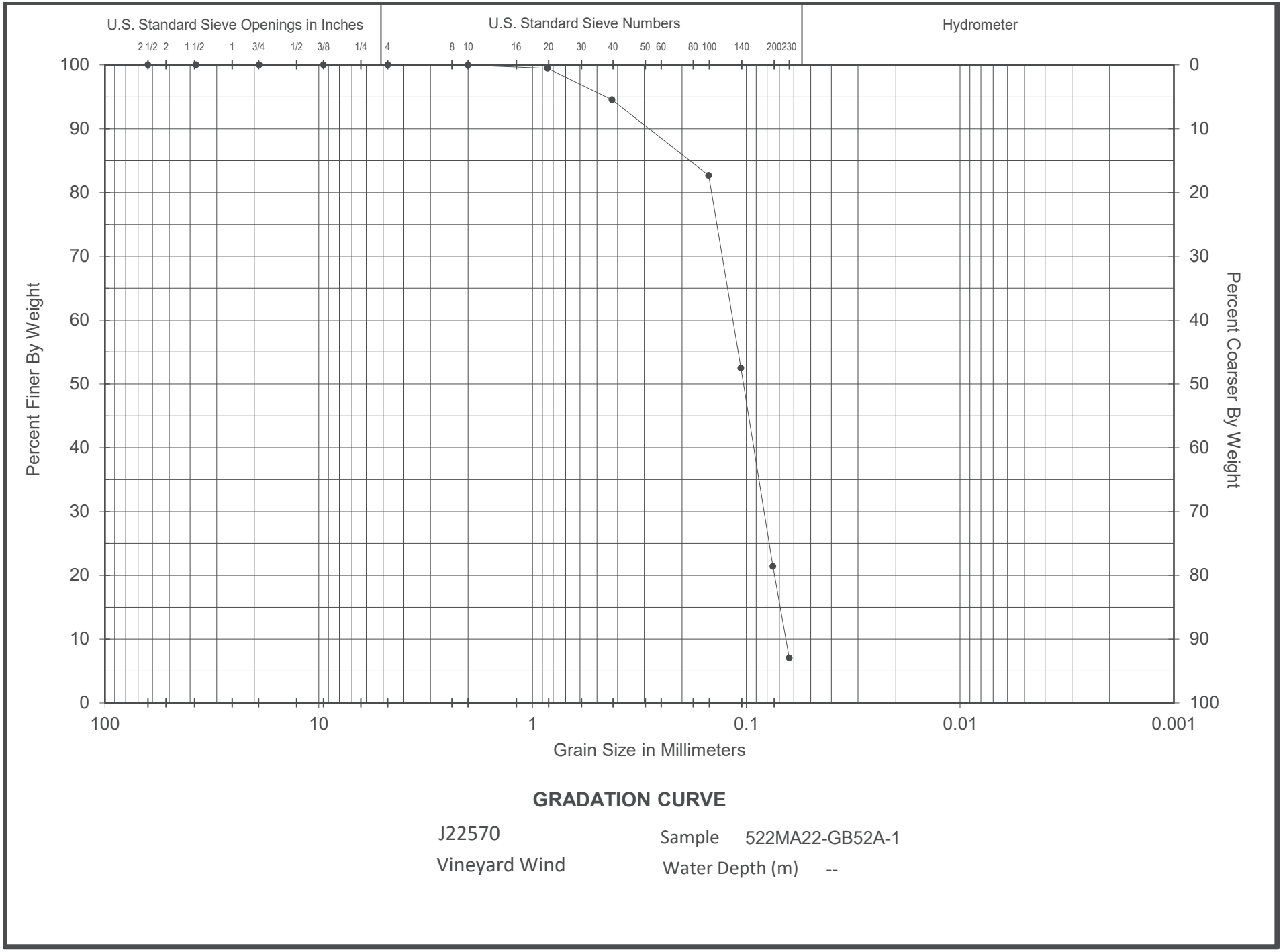
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	100.00
0.85	20	99.48	0.52	
0.425	40	94.55	5.45	
0.15	100	82.68	17.32	
0.106	140	52.49	47.51	
0.075	200	21.39	78.61	
0.063	230	7.04	92.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	7.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	92.94
% Silt and Clay	< 0.0625 mm	7.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.52
% Medium Sand	0.25 - 0.50 mm	4.93
% Fine Sand	0.0625 - 0.25 mm	87.51

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.39	0.075	7.04	0.063	0.065
D30	30	52.49	0.106	21.39	0.075	0.083
D50	50	52.49	0.106	21.39	0.075	0.103
D60	60	82.68	0.150	52.49	0.106	0.116

Uniformity Coefficient (Cu)	1.770
Coefficient of Curvature (Cc)	0.903



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB52A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB52B-1
Water Depth (m)	--

Grain Size Data

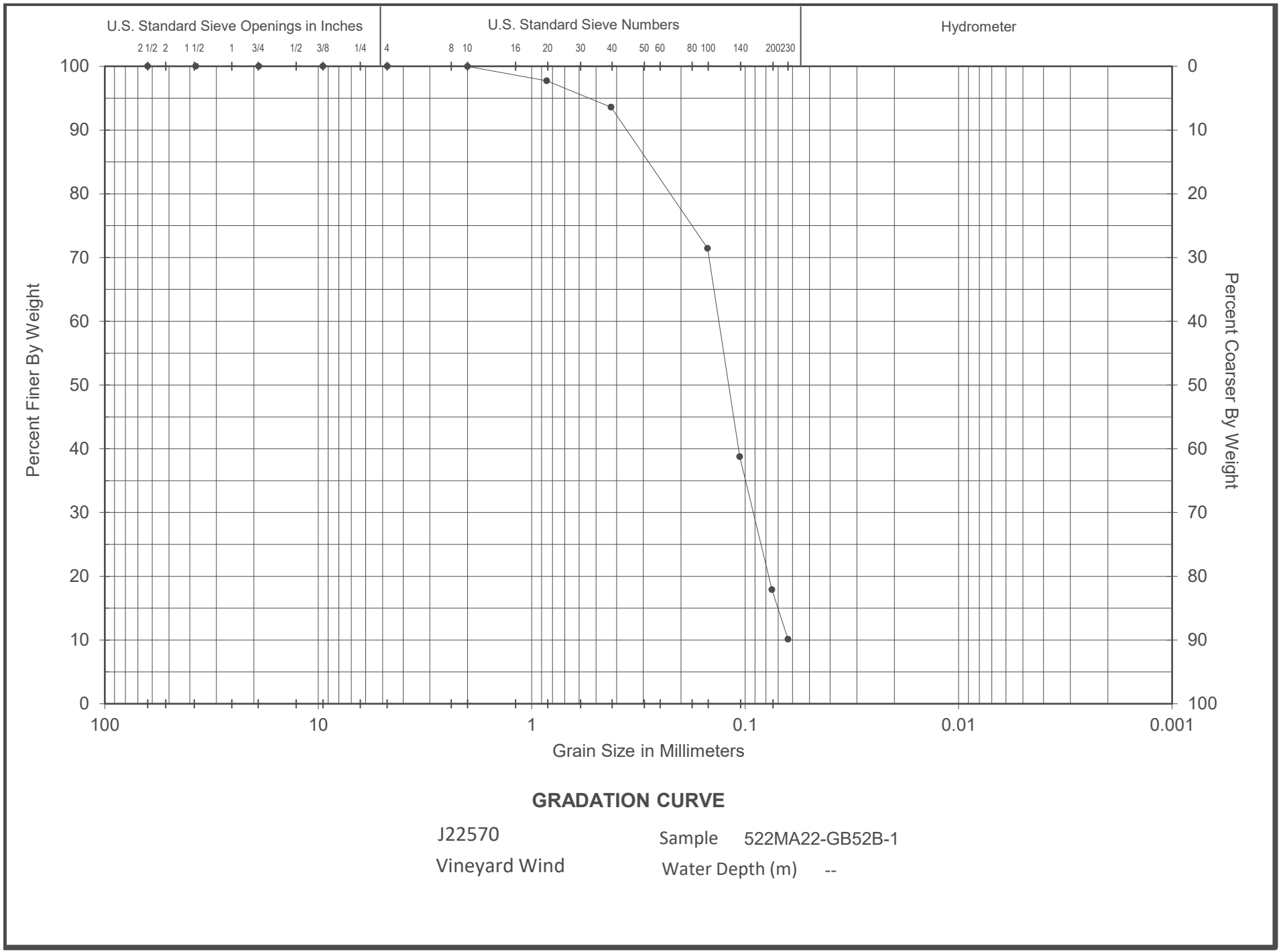
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	0.00
0.85	20	97.72	2.28	
0.425	40	93.58	6.42	
0.15	100	71.45	28.55	
0.106	140	38.75	61.25	
0.075	200	17.89	82.11	
0.063	230	10.13	89.87	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	10.13
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.03
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	89.84
% Silt and Clay	< 0.0625 mm	10.13
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.28
% Medium Sand	0.25 - 0.50 mm	4.14
% Fine Sand	0.0625 - 0.25 mm	83.45

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.13	0.063	#N/A	#N/A	#N/A
D30	30	38.75	0.106	17.89	0.075	0.092
D50	50	71.45	0.150	38.75	0.106	0.119
D60	60	71.45	0.150	38.75	0.106	0.133

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB52B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB52C-1
Water Depth (m)	--

Grain Size Data

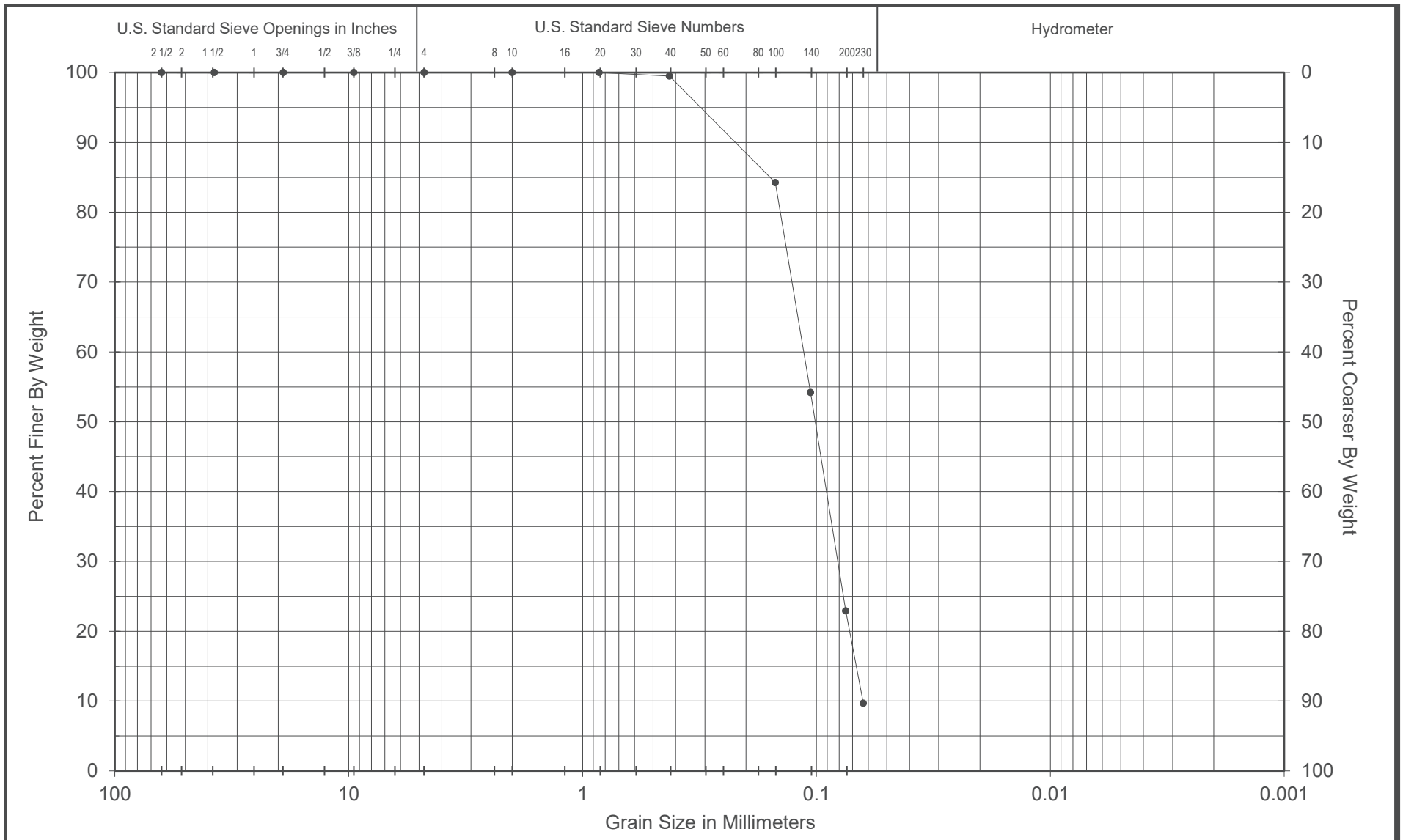
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.48	0.52	
0.15	100	84.24	15.76	
0.106	140	54.17	45.83	
0.075	200	22.92	77.08	
0.063	230	9.69	90.31	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	9.69
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	90.31
% Silt and Clay	< 0.0625 mm	9.69
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.51
% Fine Sand	0.0625 - 0.25 mm	89.79

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.92	0.075	9.69	0.063	0.063
D30	30	54.17	0.106	22.92	0.075	0.081
D50	50	54.17	0.106	22.92	0.075	0.101
D60	60	84.24	0.150	54.17	0.106	0.113

Uniformity Coefficient (Cu)	1.792
Coefficient of Curvature (Cc)	0.917



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB52C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB53A-1
Water Depth (m)	--

Grain Size Data

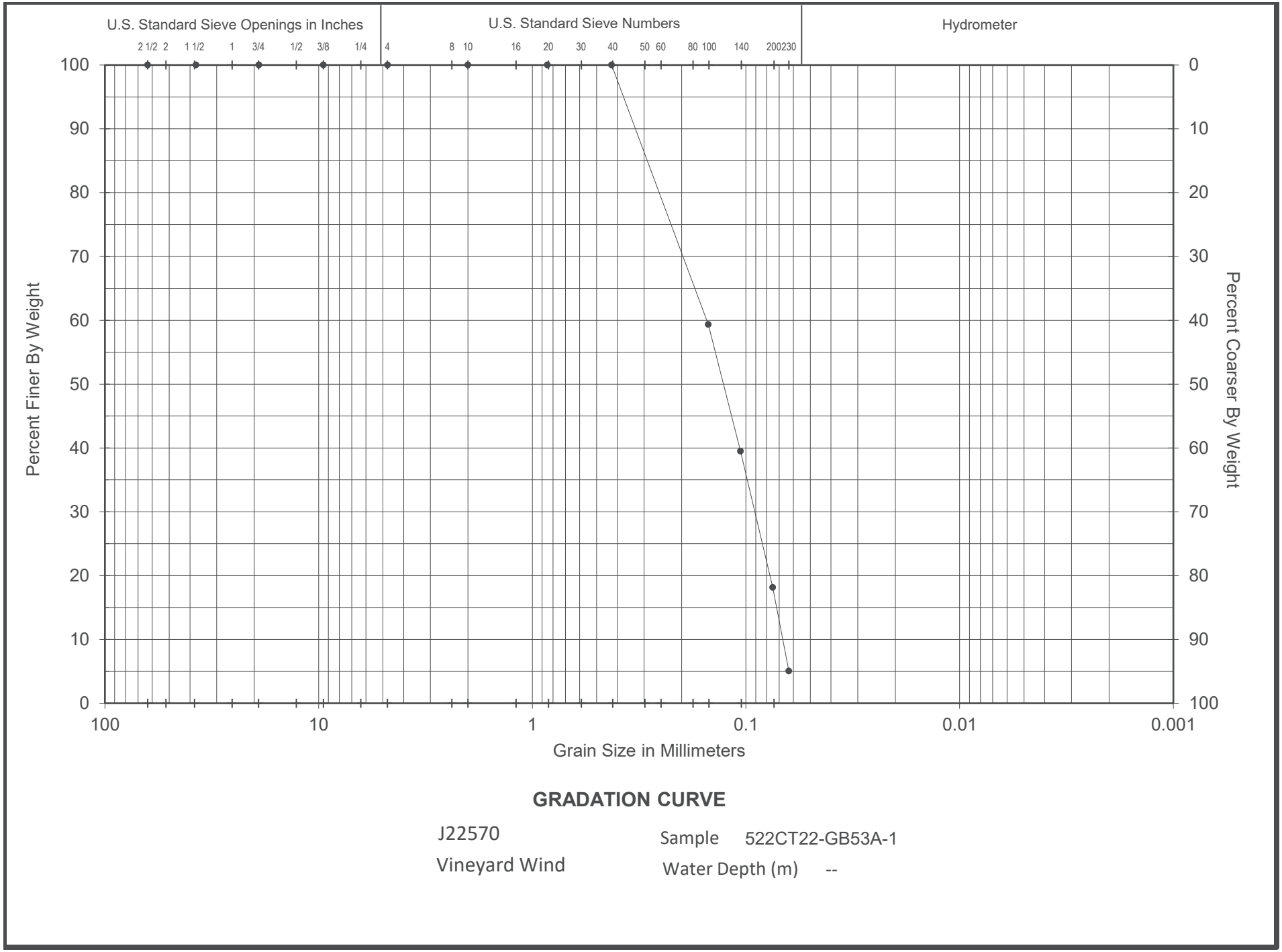
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	100.00	0.00	
0.15	100	59.35	40.65	
0.106	140	39.49	60.51	
0.075	200	18.15	81.85	
0.063	230	5.05	94.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	5.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.95
% Silt and Clay	< 0.0625 mm	5.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.00
% Fine Sand	0.0625 - 0.25 mm	94.95

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.15	0.075	5.05	0.063	0.067
D30	30	39.49	0.106	18.15	0.075	0.091
D50	50	59.35	0.150	39.49	0.106	0.127
D60	60	100.00	63.000	59.35	0.150	0.165

Uniformity Coefficient (Cu)	2.456
Coefficient of Curvature (Cc)	0.743



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB53A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB53B-1
Water Depth (m)	--

Grain Size Data

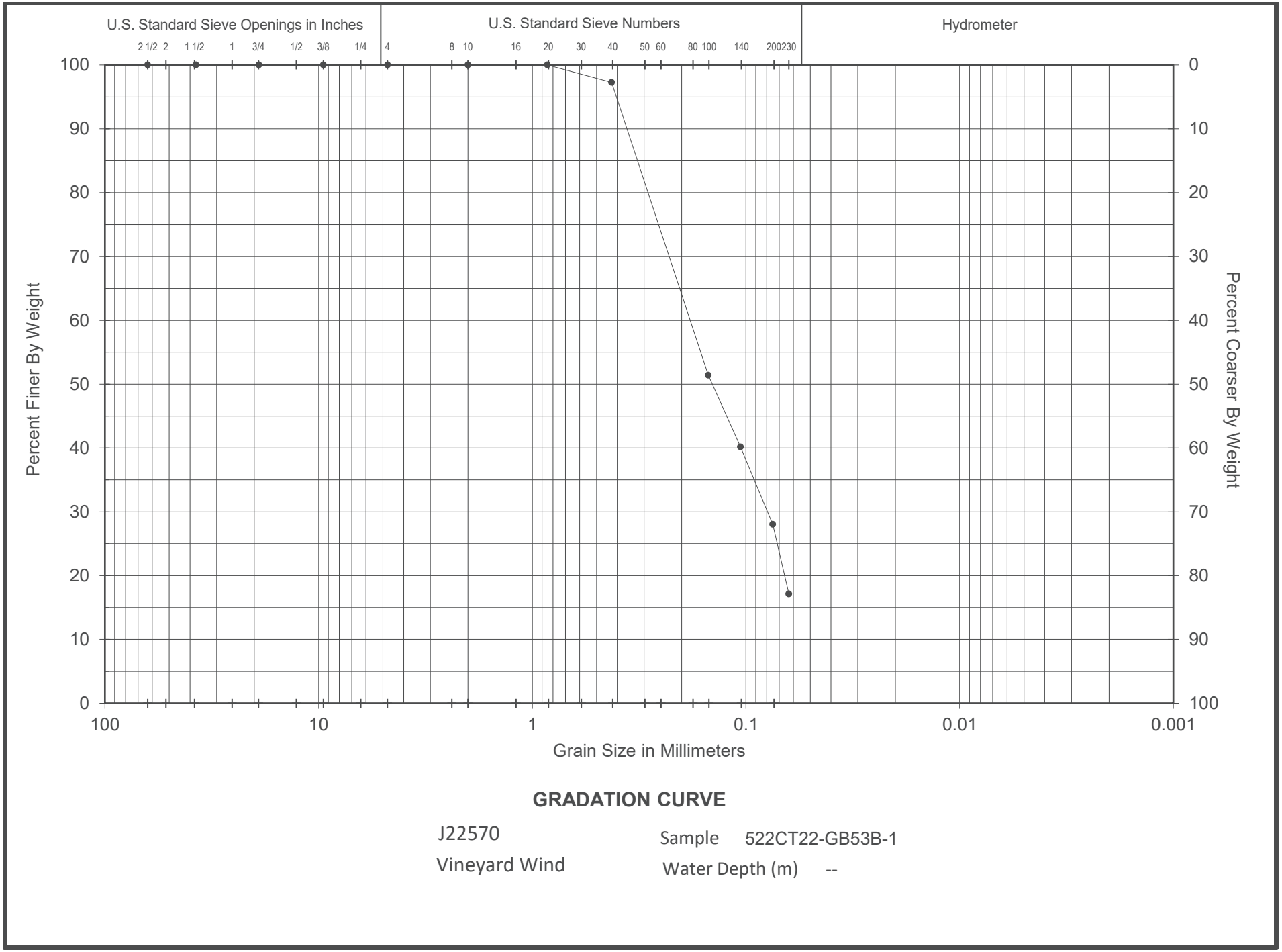
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	97.30	2.70	
0.15	100	51.41	48.59	
0.106	140	40.16	59.84	
0.075	200	28.04	71.96	
0.063	230	17.15	82.85	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	17.15
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	82.85
% Silt and Clay	< 0.0625 mm	17.15
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	2.70
% Fine Sand	0.0625 - 0.25 mm	80.15

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	17.15	0.063	#N/A	#N/A	#N/A
D30	30	40.16	0.106	28.04	0.075	0.079
D50	50	51.41	0.150	40.16	0.106	0.144
D60	60	97.30	0.425	51.41	0.150	0.182

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB53B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB53C-1
Water Depth (m)	--

Grain Size Data

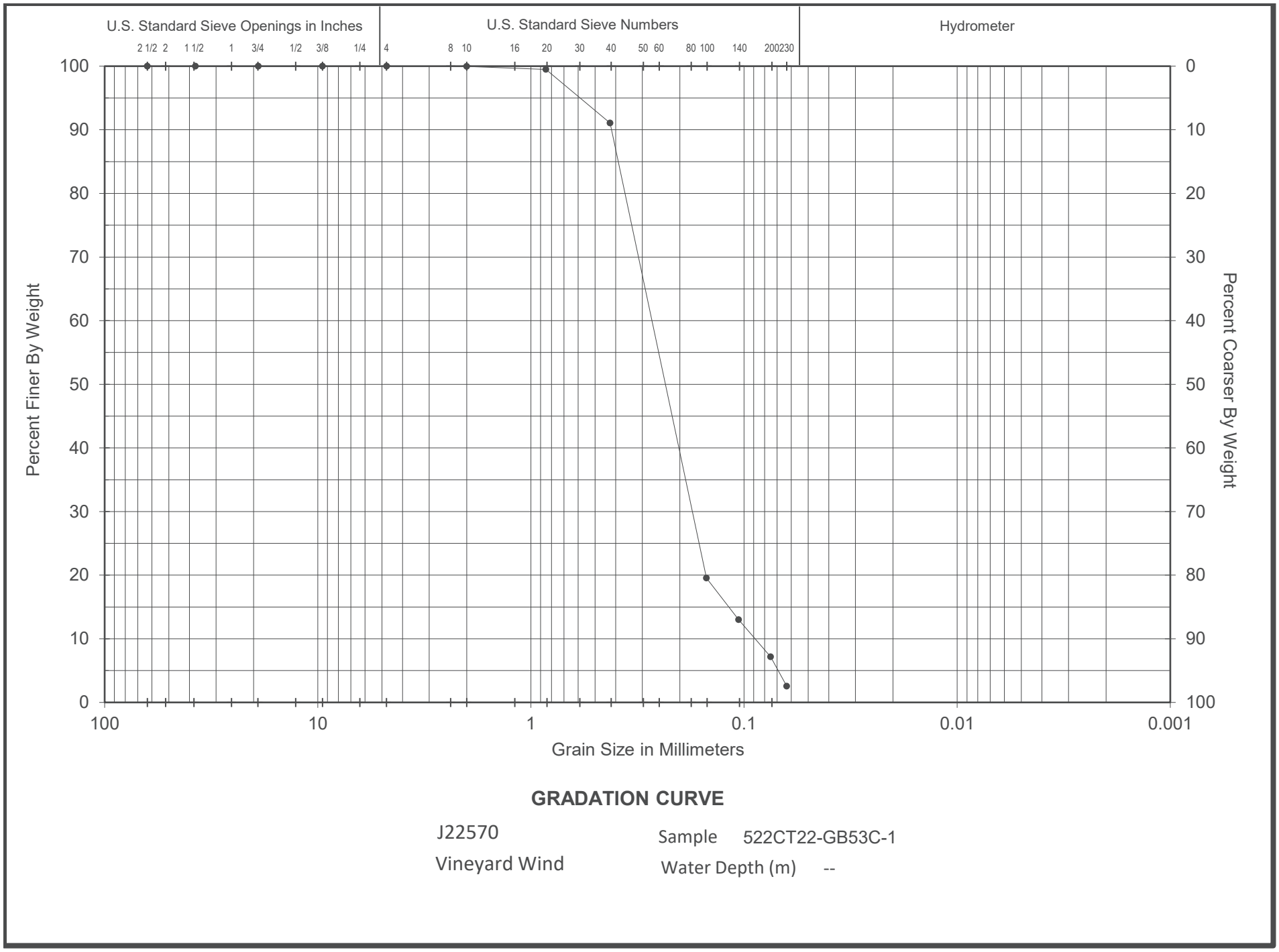
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	100.00
0.85	20	99.49	0.51	
0.425	40	91.05	8.95	
0.15	100	19.53	80.47	
0.106	140	12.99	87.01	
0.075	200	7.18	92.82	
0.063	230	2.54	97.46	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	2.54
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	97.43
% Silt and Clay	< 0.0625 mm	2.54
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.51
% Medium Sand	0.25 - 0.50 mm	8.44
% Fine Sand	0.0625 - 0.25 mm	88.51

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.99	0.106	7.18	0.075	0.089
D30	30	91.05	0.425	19.53	0.150	0.175
D50	50	91.05	0.425	19.53	0.150	0.234
D60	60	91.05	0.425	19.53	0.150	0.270

Uniformity Coefficient (Cu)	3.048
Coefficient of Curvature (Cc)	1.272



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB53C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB54A-1
Water Depth (m)	--

Grain Size Data

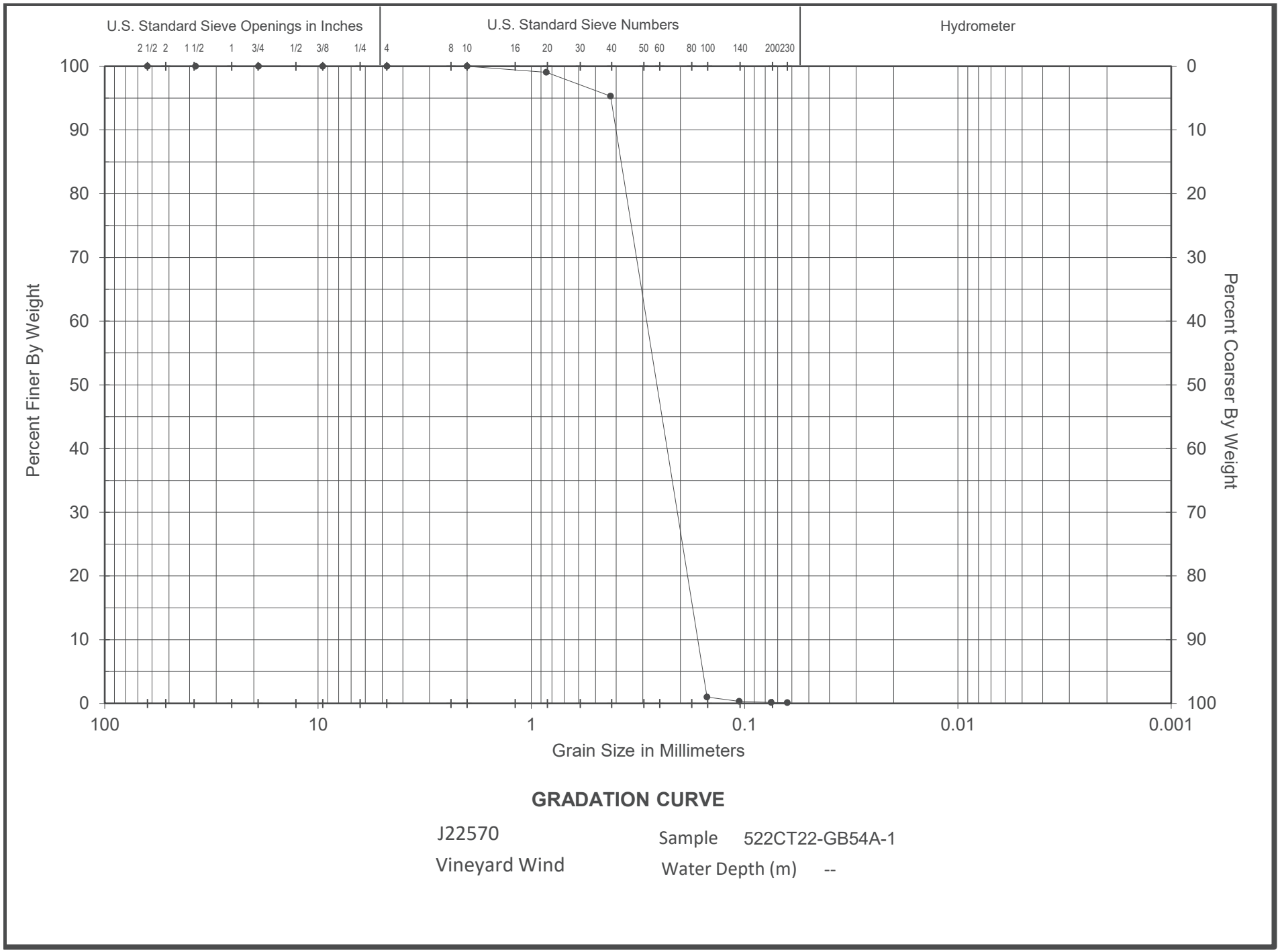
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.04	0.96	
0.425	40	95.32	4.68	
0.15	100	1.00	99.00	
0.106	140	0.34	99.66	
0.075	200	0.16	99.84	
0.063	230	0.10	99.90	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	0.10
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.90
% Silt and Clay	< 0.0625 mm	0.10
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.96
% Medium Sand	0.25 - 0.50 mm	3.72
% Fine Sand	0.0625 - 0.25 mm	95.21

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	95.32	0.425	1.00	0.150	0.166
D30	30	95.32	0.425	1.00	0.150	0.207
D50	50	95.32	0.425	1.00	0.150	0.258
D60	60	95.32	0.425	1.00	0.150	0.288

Uniformity Coefficient (Cu)	1.737
Coefficient of Curvature (Cc)	0.895



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB54A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB54B-1
Water Depth (m)	--

Grain Size Data

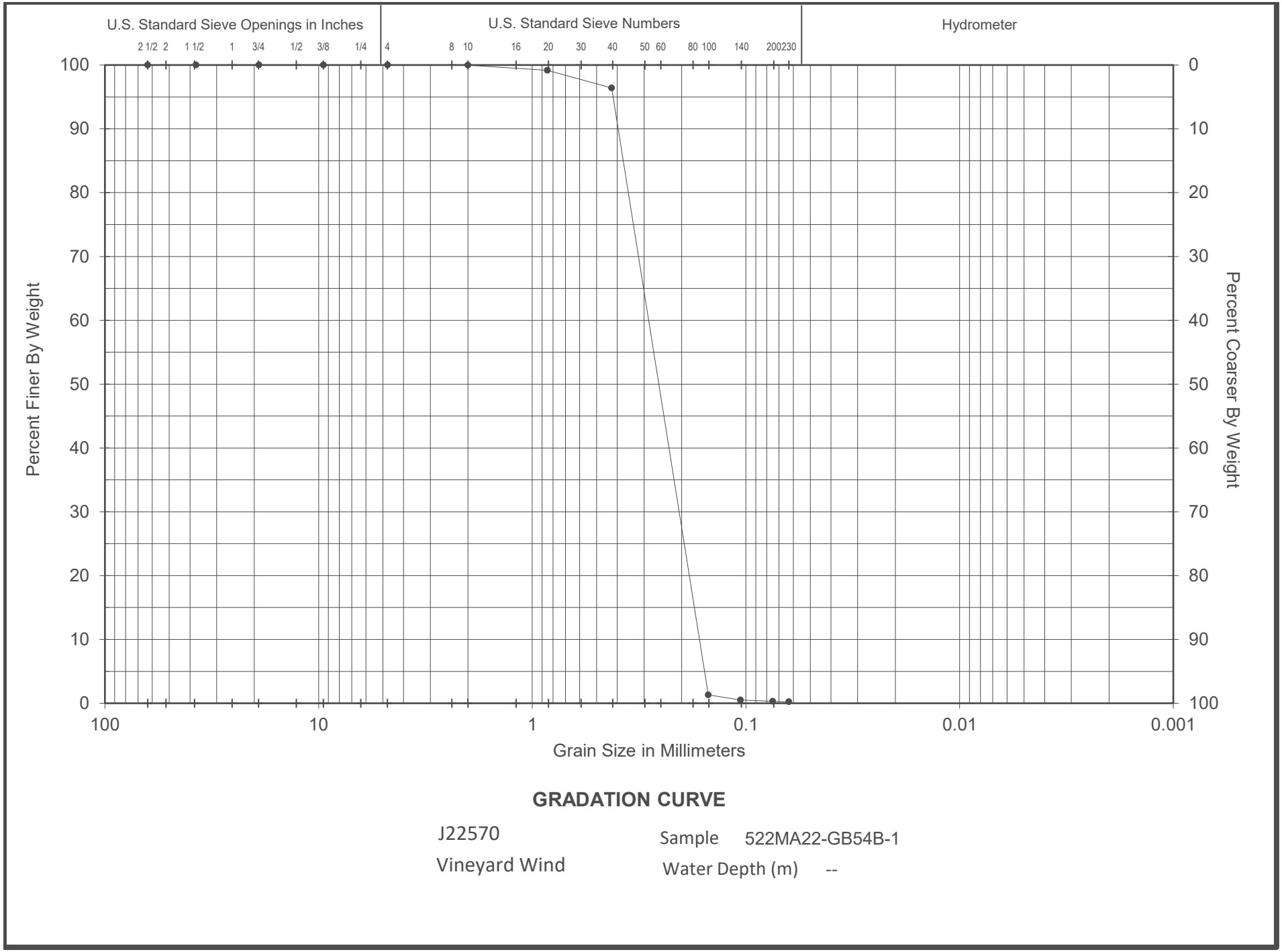
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.18	0.82	
0.425	40	96.42	3.58	
0.15	100	1.31	98.69	
0.106	140	0.52	99.48	
0.075	200	0.30	99.70	
0.063	230	0.23	99.77	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.23
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.76
% Silt and Clay	< 0.0625 mm	0.23
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.82
% Medium Sand	0.25 - 0.50 mm	2.77
% Fine Sand	0.0625 - 0.25 mm	96.18

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	96.42	0.425	1.31	0.150	0.165
D30	30	96.42	0.425	1.31	0.150	0.205
D50	50	96.42	0.425	1.31	0.150	0.256
D60	60	96.42	0.425	1.31	0.150	0.285

Uniformity Coefficient (Cu)	1.729
Coefficient of Curvature (Cc)	0.896



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB54B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB54C-1
Water Depth (m)	--

Grain Size Data

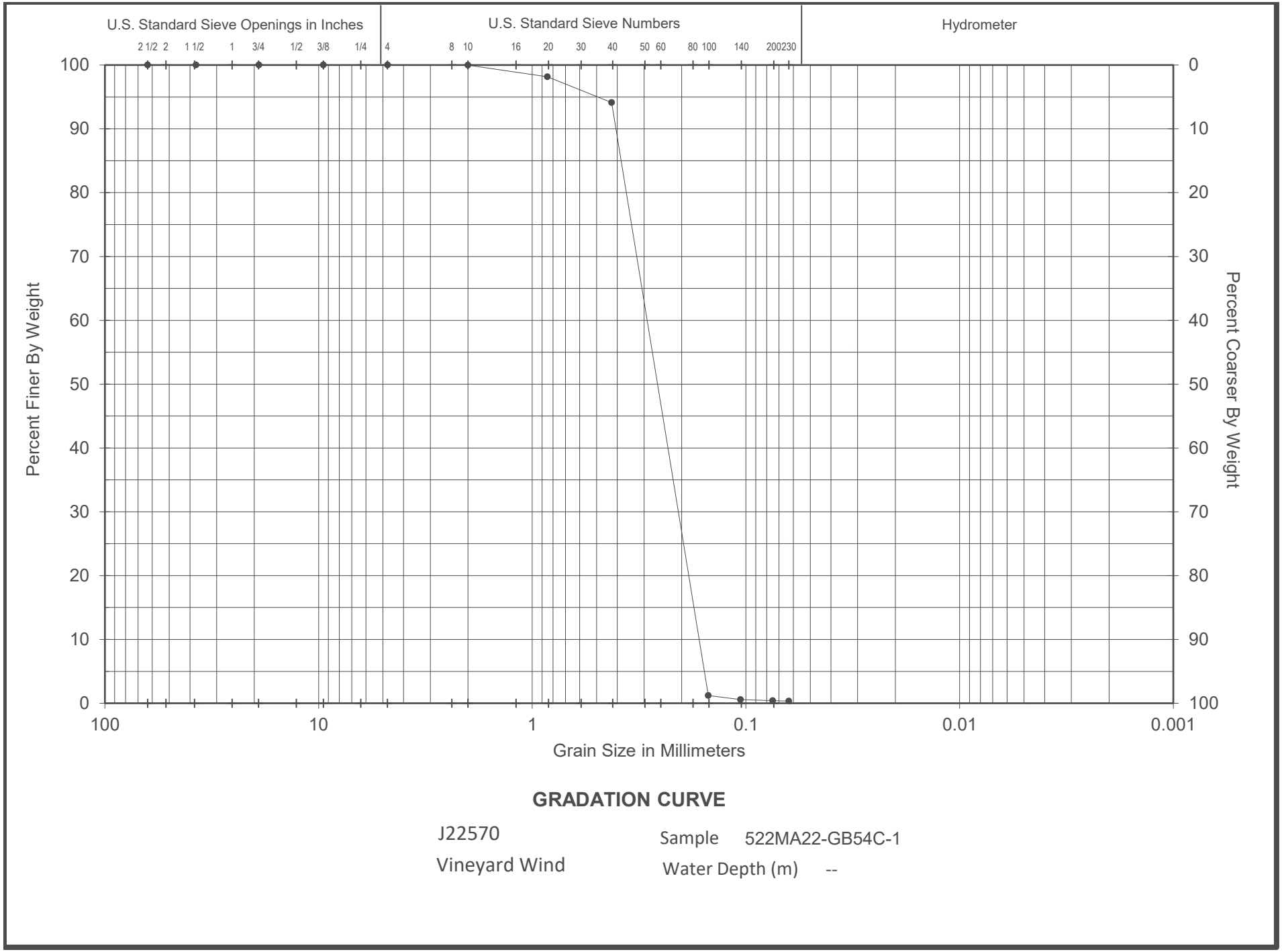
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	100.00
0.85	20	98.18	1.82	
0.425	40	94.11	5.89	
0.15	100	1.23	98.77	
0.106	140	0.57	99.43	
0.075	200	0.40	99.60	
0.063	230	0.33	99.67	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.33
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.63
% Silt and Clay	< 0.0625 mm	0.33
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.82
% Medium Sand	0.25 - 0.50 mm	4.07
% Fine Sand	0.0625 - 0.25 mm	93.77

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	94.11	0.425	1.23	0.150	0.166
D30	30	94.11	0.425	1.23	0.150	0.207
D50	50	94.11	0.425	1.23	0.150	0.259
D60	60	94.11	0.425	1.23	0.150	0.290

Uniformity Coefficient (Cu)	1.752
Coefficient of Curvature (Cc)	0.894



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB54C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB55A-2
Water Depth (m)	--

Grain Size Data

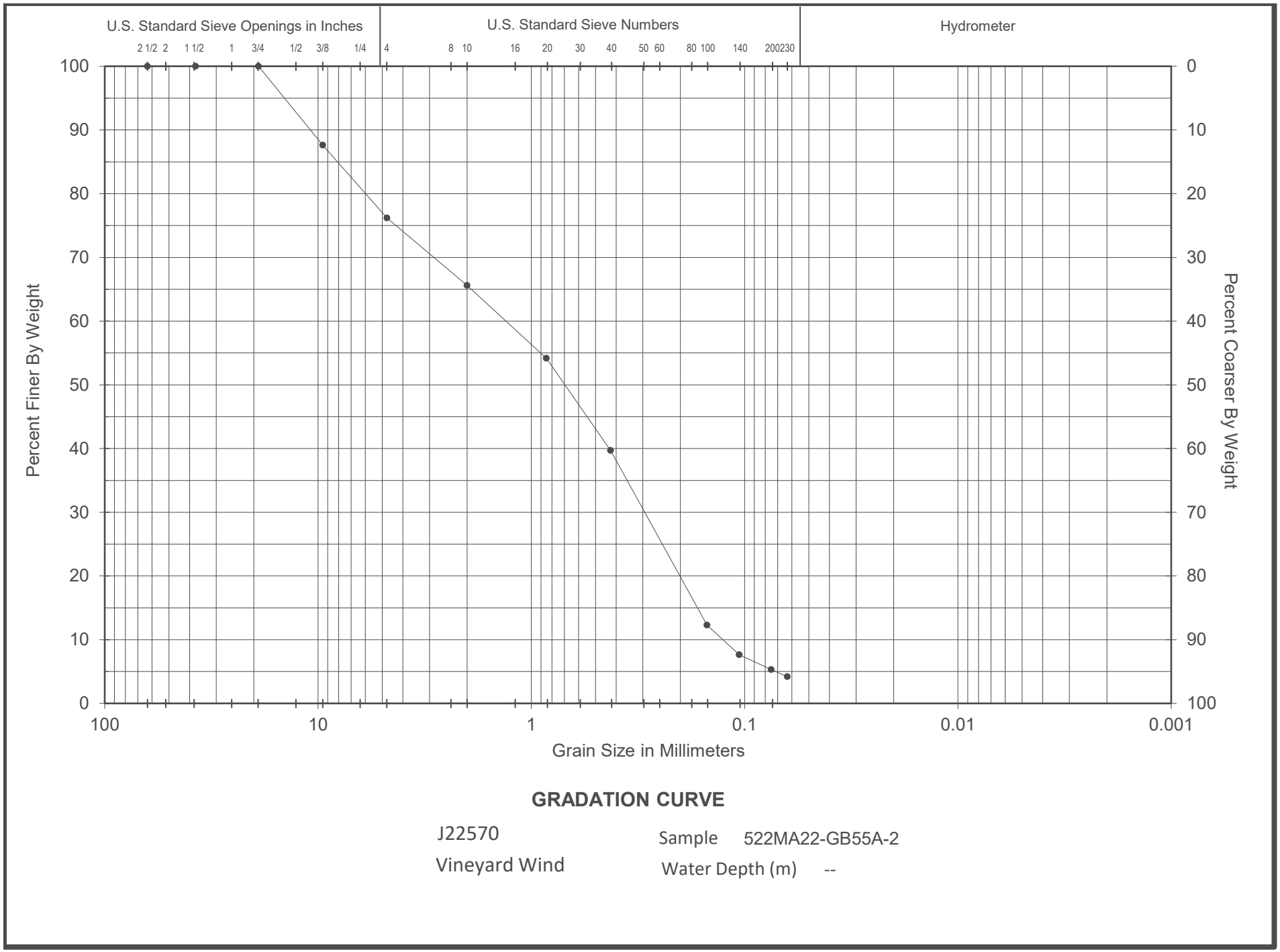
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	87.61	12.39	
4.75	4	76.20	23.80	
2	10	65.60	34.40	0.37
0.85	20	54.16	45.84	
0.425	40	39.69	60.31	
0.15	100	12.28	87.72	
0.106	140	7.65	92.35	
0.075	200	5.31	94.69	
0.063	230	4.19	95.81	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	65.60
% Passing #230	4.19
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	34.27
% Gravel-Sized Shell	> 2.00 mm	0.13
% Sand	0.0625 - 2.00 mm	61.42
% Silt and Clay	< 0.0625 mm	4.19
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	22.04
% Medium Sand	0.25 - 0.50 mm	14.47
% Fine Sand	0.0625 - 0.25 mm	35.50

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.28	0.150	7.65	0.106	0.126
D30	30	39.69	0.425	12.28	0.150	0.294
D50	50	54.16	0.850	39.69	0.425	0.696
D60	60	65.60	2.000	54.16	0.850	1.315

Uniformity Coefficient (Cu)	10.405
Coefficient of Curvature (Cc)	0.520



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB55A-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB55B-1
Water Depth (m)	--

Grain Size Data

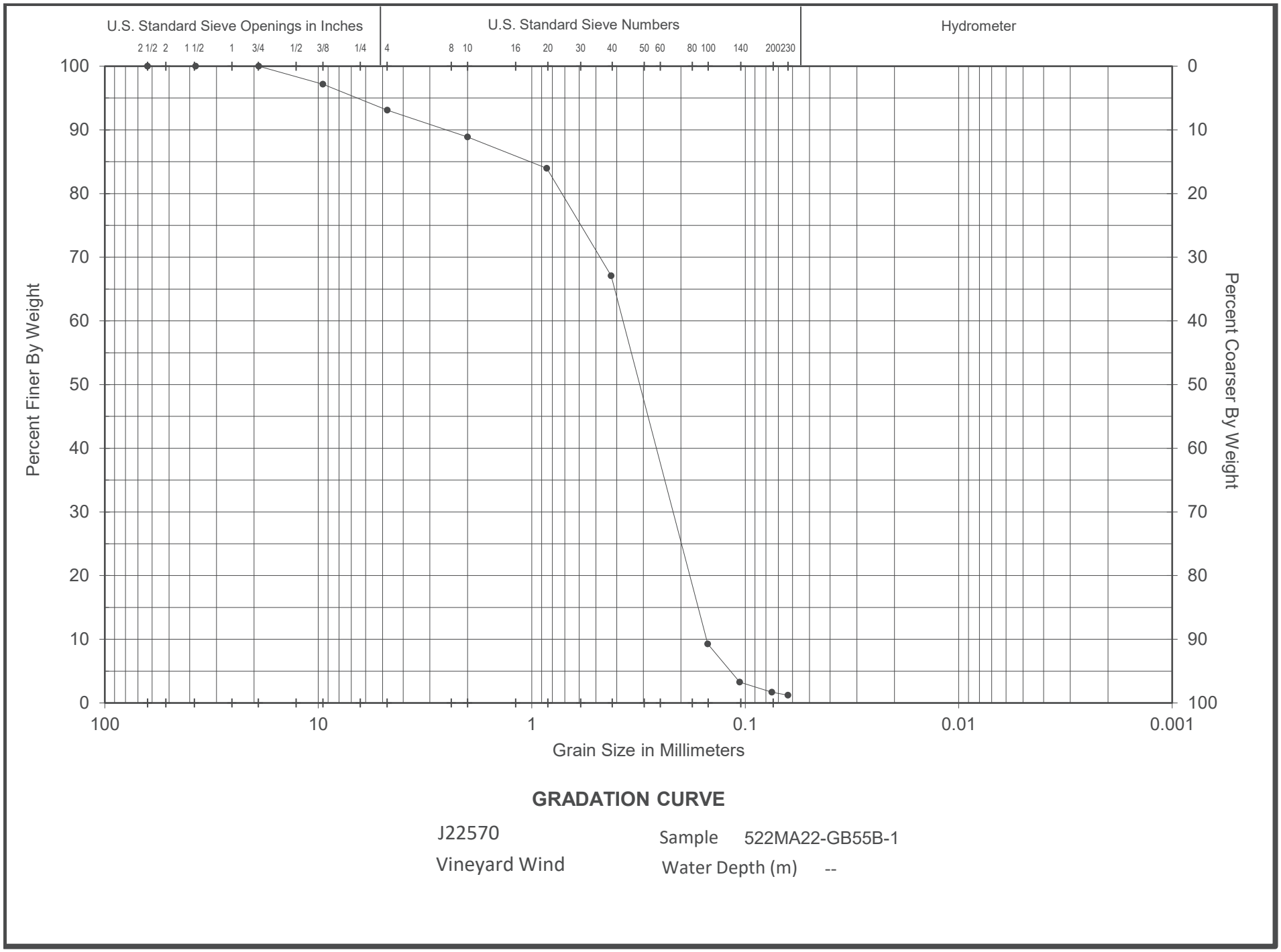
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	97.17	2.83	
4.75	4	93.09	6.91	
2	10	88.90	11.10	4.72
0.85	20	83.97	16.03	
0.425	40	67.07	32.93	
0.15	100	9.26	90.74	
0.106	140	3.26	96.74	
0.075	200	1.69	98.31	
0.063	230	1.22	98.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	88.90
% Passing #230	1.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	10.58
% Gravel-Sized Shell	> 2.00 mm	0.52
% Sand	0.0625 - 2.00 mm	87.68
% Silt and Clay	< 0.0625 mm	1.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.12
% Medium Sand	0.25 - 0.50 mm	16.90
% Fine Sand	0.0625 - 0.25 mm	65.85

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	67.07	0.425	9.26	0.150	0.152
D30	30	67.07	0.425	9.26	0.150	0.218
D50	50	67.07	0.425	9.26	0.150	0.312
D60	60	67.07	0.425	9.26	0.150	0.374

Uniformity Coefficient (Cu)	2.462
Coefficient of Curvature (Cc)	0.835



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB55B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB55C-1
Water Depth (m)	--

Grain Size Data

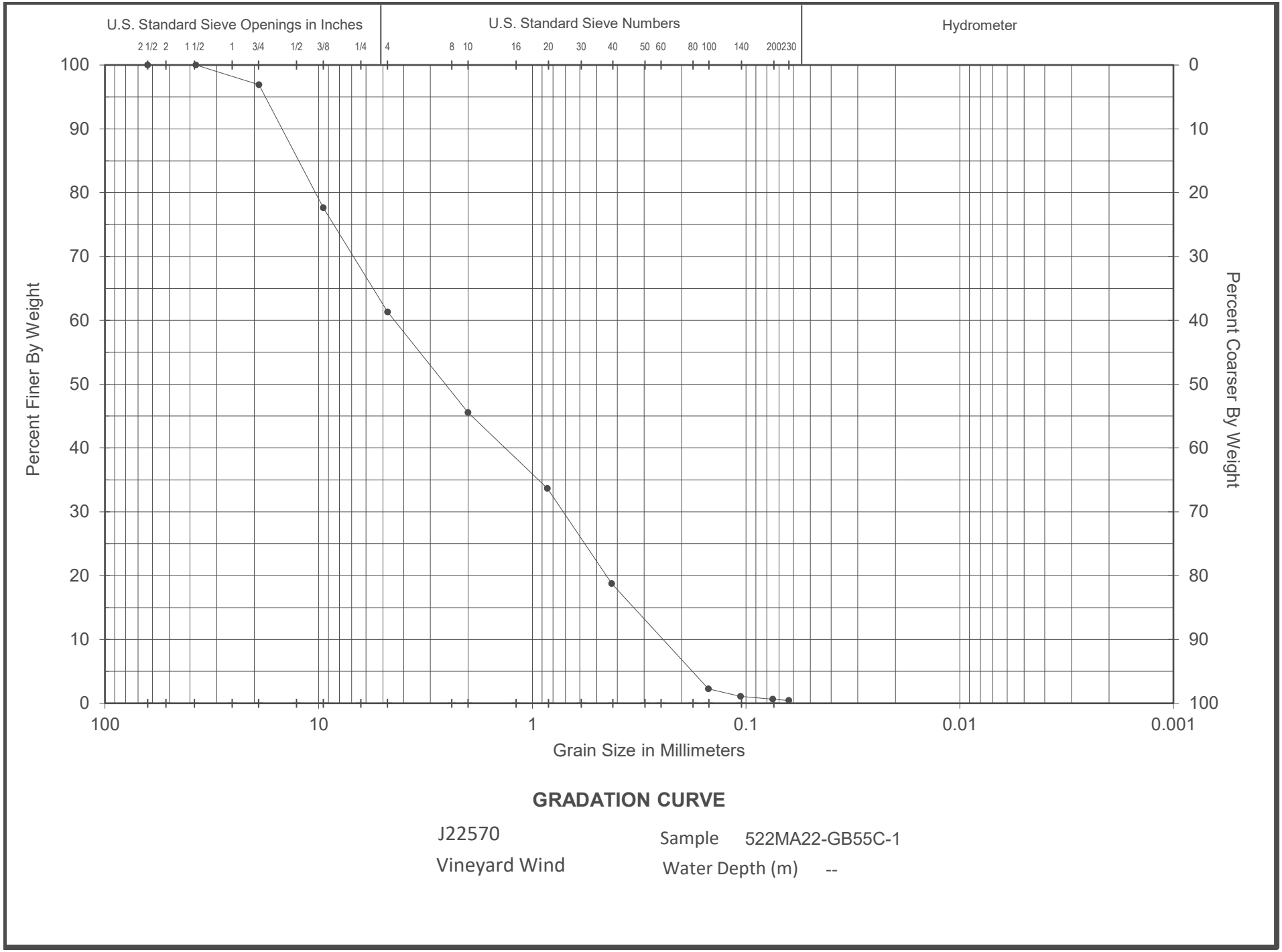
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	96.92	3.08	
9.5	3/8"	77.64	22.36	
4.75	4	61.30	38.70	
2	10	45.54	54.46	0.86
0.85	20	33.64	66.36	
0.425	40	18.75	81.25	
0.15	100	2.26	97.74	
0.106	140	1.07	98.93	
0.075	200	0.62	99.38	
0.063	230	0.43	99.57	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	45.54
% Passing #230	0.43
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	53.99
% Gravel-Sized Shell	> 2.00 mm	0.47
% Sand	0.0625 - 2.00 mm	45.11
% Silt and Clay	< 0.0625 mm	0.43
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.66
% Medium Sand	0.25 - 0.50 mm	14.89
% Fine Sand	0.0625 - 0.25 mm	18.32

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.75	0.425	2.26	0.150	0.245
D30	30	33.64	0.850	18.75	0.425	0.717
D50	50	61.30	4.750	45.54	2.000	2.554
D60	60	61.30	4.750	45.54	2.000	4.422

Uniformity Coefficient (Cu)	18.084
Coefficient of Curvature (Cc)	0.476



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB55C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB57A-1
Water Depth (m)	--

Grain Size Data

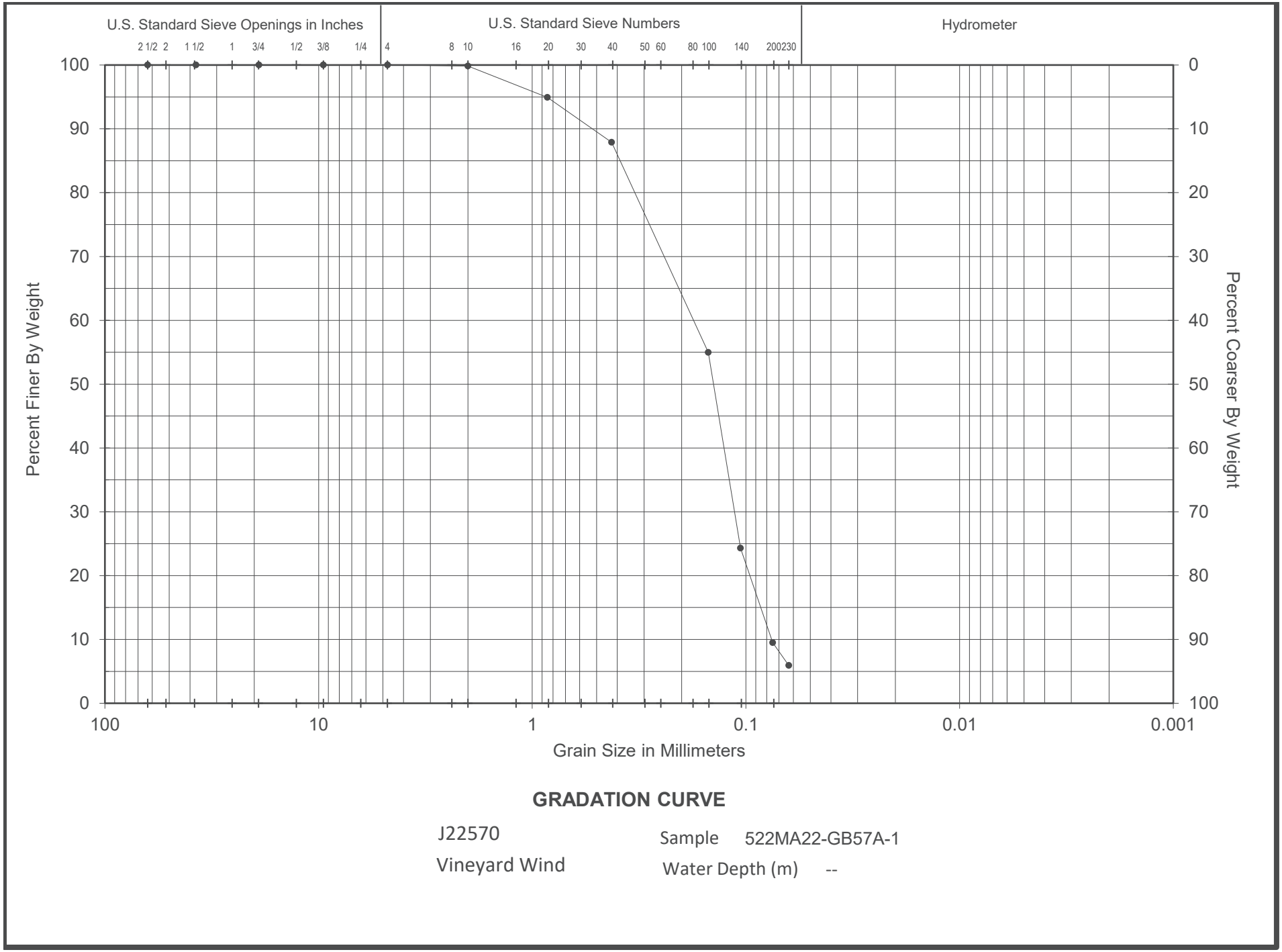
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.84	0.16	100.00
0.85	20	94.92	5.08	
0.425	40	87.88	12.12	
0.15	100	54.96	45.04	
0.106	140	24.32	75.68	
0.075	200	9.49	90.51	
0.063	230	5.91	94.09	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.84
% Passing #230	5.91
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.16
% Sand	0.0625 - 2.00 mm	93.93
% Silt and Clay	< 0.0625 mm	5.91
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.08
% Medium Sand	0.25 - 0.50 mm	7.04
% Fine Sand	0.0625 - 0.25 mm	81.97

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.32	0.106	9.49	0.075	0.076
D30	30	54.96	0.150	24.32	0.106	0.113
D50	50	54.96	0.150	24.32	0.106	0.142
D60	60	87.88	0.425	54.96	0.150	0.176

Uniformity Coefficient (Cu)	2.318
Coefficient of Curvature (Cc)	0.957



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB57A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB57B-1
Water Depth (m)	--

Grain Size Data

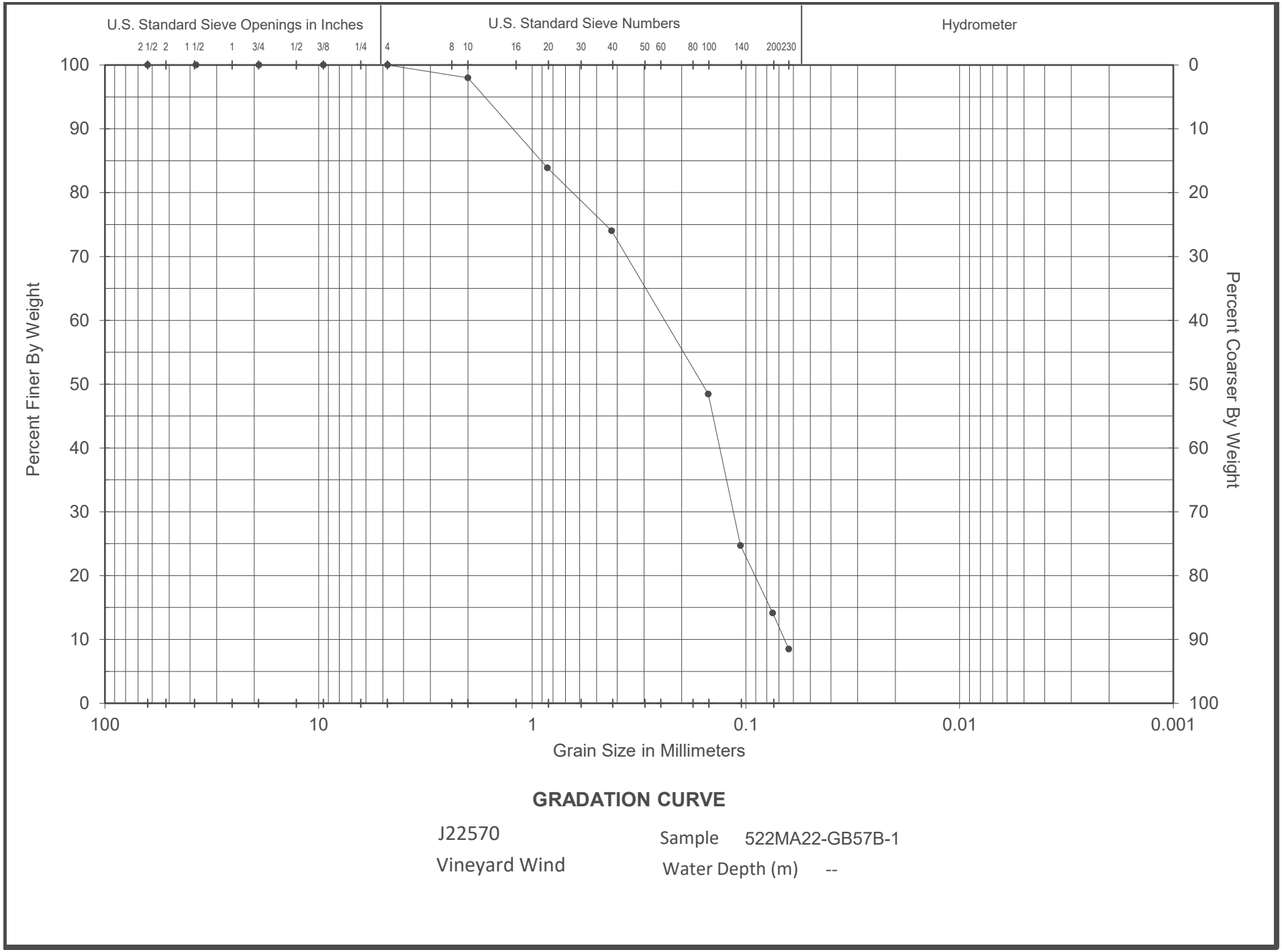
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	97.98	2.02	1.55
0.85	20	83.90	16.10	
0.425	40	74.01	25.99	
0.15	100	48.46	51.54	
0.106	140	24.70	75.30	
0.075	200	14.14	85.86	
0.063	230	8.47	91.53	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.98
% Passing #230	8.47
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.99
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	89.51
% Silt and Clay	< 0.0625 mm	8.47
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	16.10
% Medium Sand	0.25 - 0.50 mm	9.89
% Fine Sand	0.0625 - 0.25 mm	65.54

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	14.14	0.075	8.47	0.063	0.066
D30	30	48.46	0.150	24.70	0.106	0.115
D50	50	74.01	0.425	48.46	0.150	0.160
D60	60	74.01	0.425	48.46	0.150	0.240

Uniformity Coefficient (Cu)	3.636
Coefficient of Curvature (Cc)	0.827



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB57B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522MA22-GB57C-1
Water Depth (m)	--

Grain Size Data

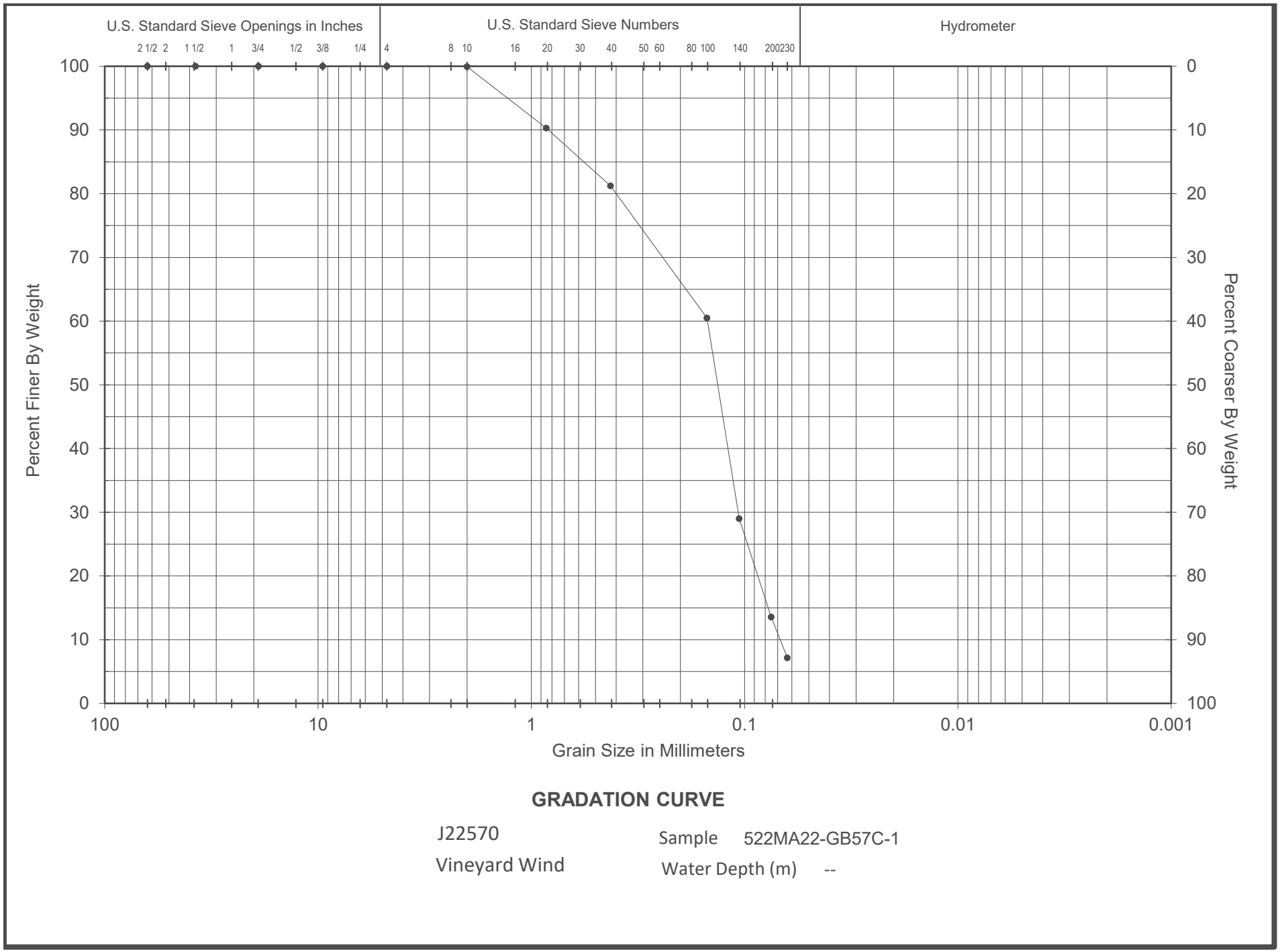
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.94	0.06	0.00
0.85	20	90.28	9.72	
0.425	40	81.21	18.79	
0.15	100	60.47	39.53	
0.106	140	28.97	71.03	
0.075	200	13.53	86.47	
0.063	230	7.12	92.88	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	7.12
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	92.82
% Silt and Clay	< 0.0625 mm	7.12
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.72
% Medium Sand	0.25 - 0.50 mm	9.07
% Fine Sand	0.0625 - 0.25 mm	74.08

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.53	0.075	7.12	0.063	0.068
D30	30	60.47	0.150	28.97	0.106	0.107
D50	50	60.47	0.150	28.97	0.106	0.134
D60	60	60.47	0.150	28.97	0.106	0.149

Uniformity Coefficient (Cu)	2.190
Coefficient of Curvature (Cc)	1.131



GRADATION CURVE

J22570

Vineyard Wind

Sample 522MA22-GB57C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB01A-1
Water Depth (m)	--

Grain Size Data

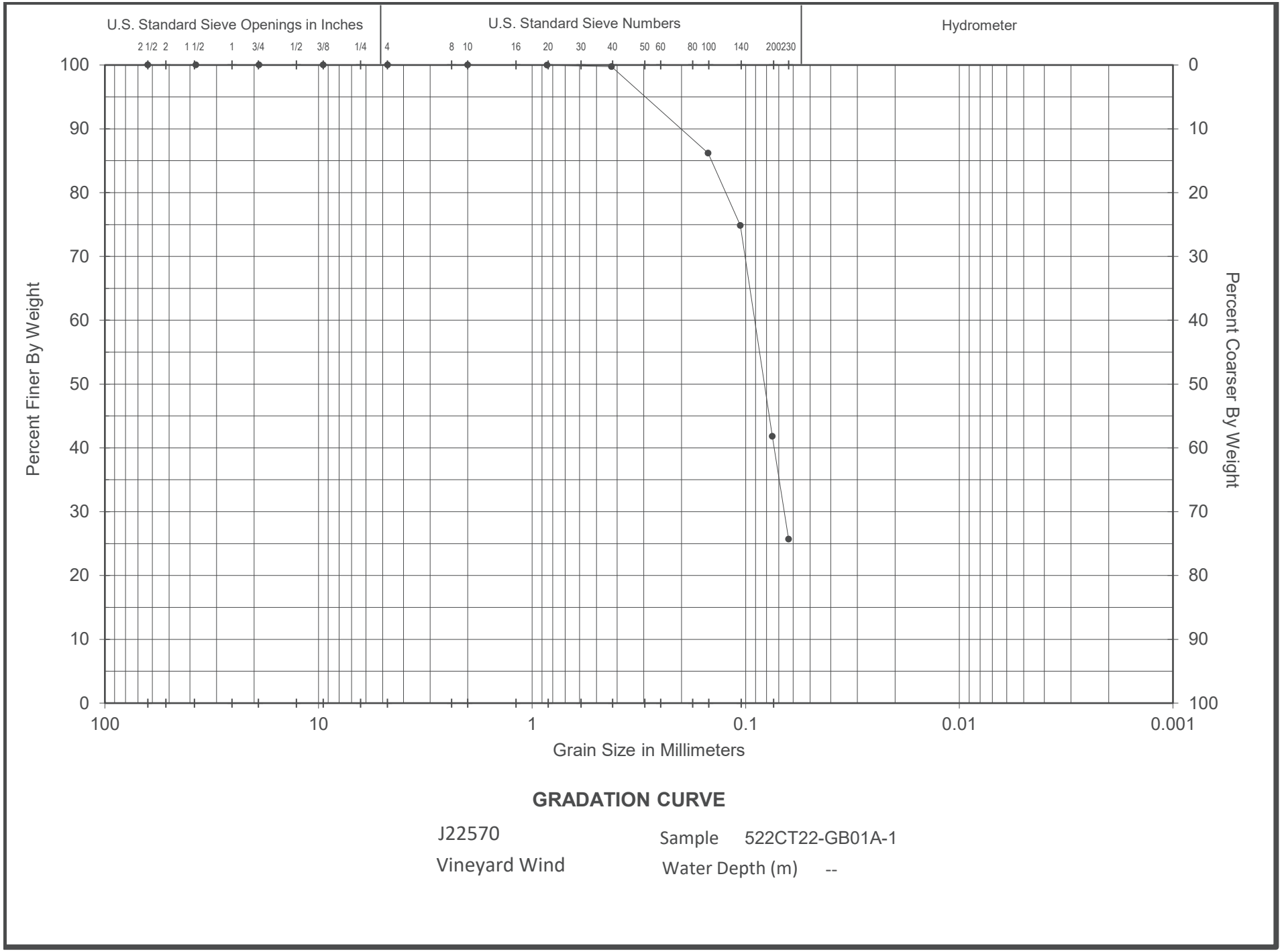
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.98	0.02	
0.425	40	99.75	0.25	
0.15	100	86.20	13.80	
0.106	140	74.84	25.16	
0.075	200	41.82	58.18	
0.063	230	25.70	74.30	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	25.70
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	74.30
% Silt and Clay	< 0.0625 mm	25.70
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.02
% Medium Sand	0.25 - 0.50 mm	0.24
% Fine Sand	0.0625 - 0.25 mm	74.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	25.70	0.063	#N/A	#N/A	#N/A
D30	30	41.82	0.075	25.70	0.063	0.066
D50	50	74.84	0.106	41.82	0.075	0.082
D60	60	74.84	0.106	41.82	0.075	0.091

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB01A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB01B-1
Water Depth (m)	--

Grain Size Data

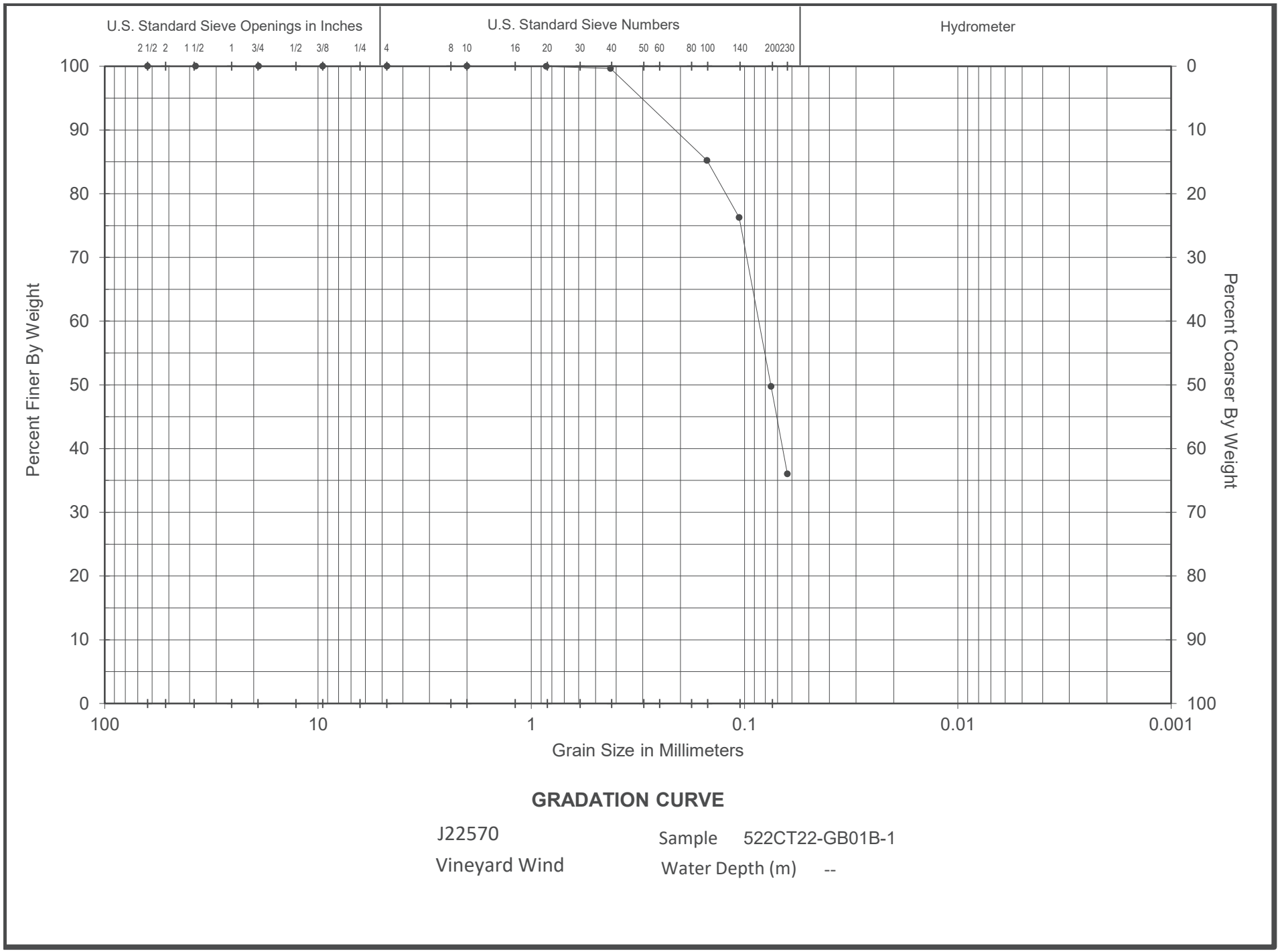
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.98	0.02	
0.425	40	99.66	0.34	
0.15	100	85.22	14.78	
0.106	140	76.26	23.74	
0.075	200	49.74	50.26	
0.063	230	36.03	63.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	36.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	63.97
% Silt and Clay	< 0.0625 mm	36.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.02
% Medium Sand	0.25 - 0.50 mm	0.32
% Fine Sand	0.0625 - 0.25 mm	63.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	36.03	0.063	#N/A	#N/A	#N/A
D30	30	36.03	0.063	#N/A	#N/A	#N/A
D50	50	76.26	0.106	49.74	0.075	0.075
D60	60	76.26	0.106	49.74	0.075	0.086

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB01B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB01C-1
Water Depth (m)	--

Grain Size Data

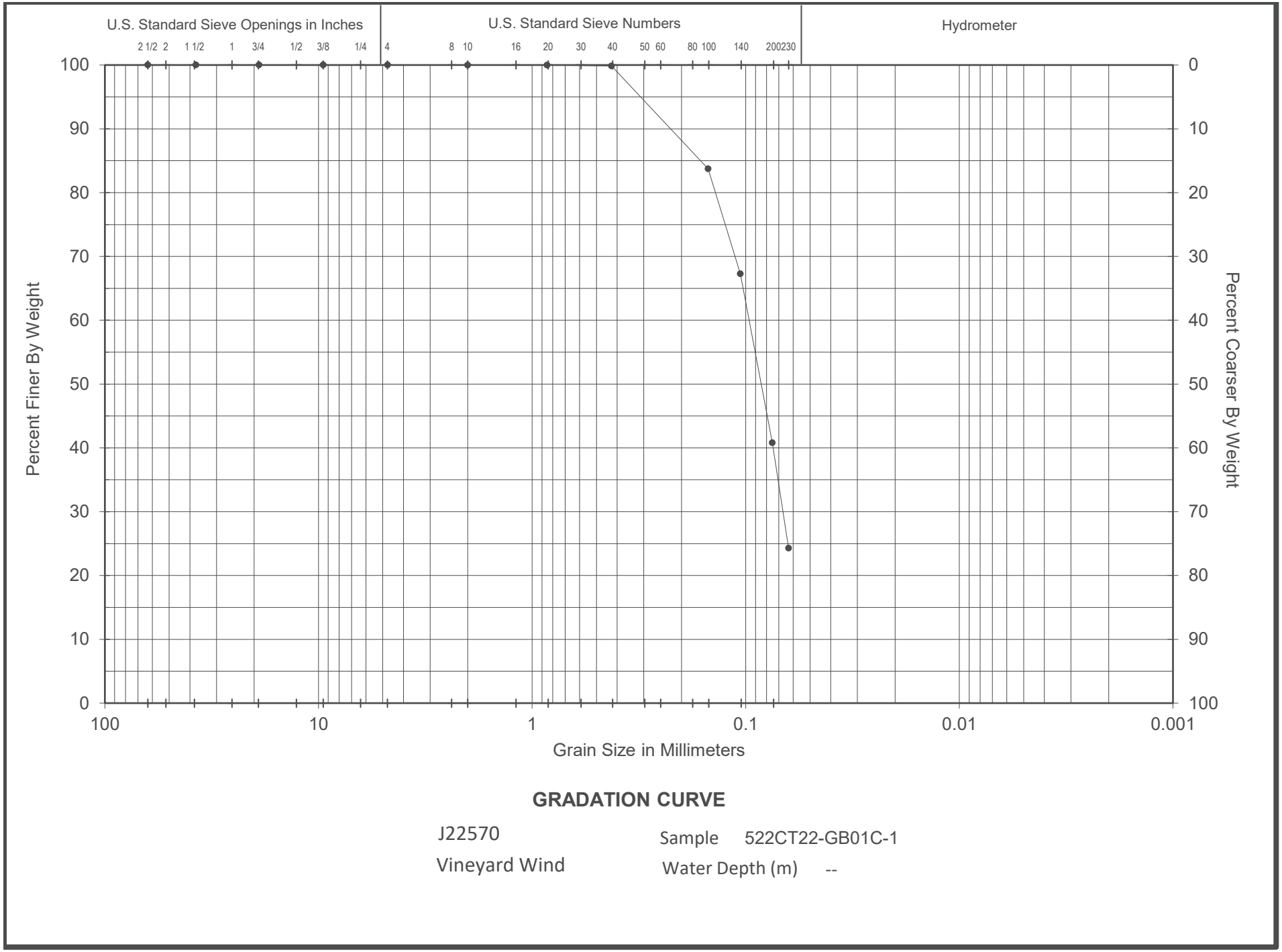
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	0.00
0.85	20	99.97	0.03	
0.425	40	99.83	0.17	
0.15	100	83.74	16.26	
0.106	140	67.28	32.72	
0.075	200	40.80	59.20	
0.063	230	24.27	75.73	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	24.27
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	75.73
% Silt and Clay	< 0.0625 mm	24.27
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.03
% Medium Sand	0.25 - 0.50 mm	0.14
% Fine Sand	0.0625 - 0.25 mm	75.57

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.27	0.063	#N/A	#N/A	#N/A
D30	30	40.80	0.075	24.27	0.063	0.067
D50	50	67.28	0.106	40.80	0.075	0.085
D60	60	67.28	0.106	40.80	0.075	0.096

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB01C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB02-1
Water Depth (m)	--

Grain Size Data

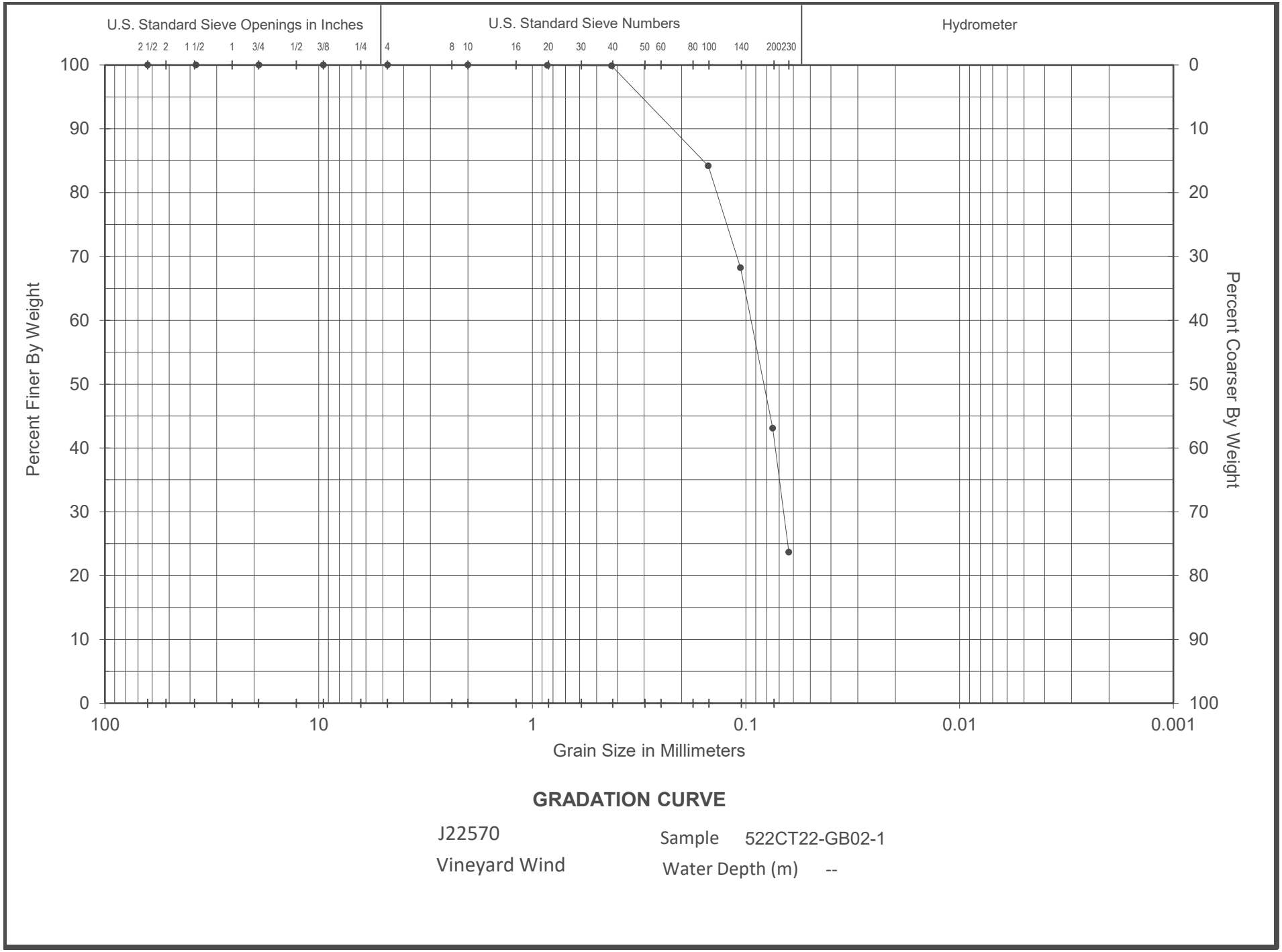
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.95	0.05	
0.425	40	99.87	0.13	
0.15	100	84.20	15.80	
0.106	140	68.23	31.77	
0.075	200	43.09	56.91	
0.063	230	23.65	76.35	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	23.65
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	76.35
% Silt and Clay	< 0.0625 mm	23.65
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	0.08
% Fine Sand	0.0625 - 0.25 mm	76.22

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.65	0.063	#N/A	#N/A	#N/A
D30	30	43.09	0.075	23.65	0.063	0.067
D50	50	68.23	0.106	43.09	0.075	0.082
D60	60	68.23	0.106	43.09	0.075	0.095

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB02-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB03A-1
Water Depth (m)	--

Grain Size Data

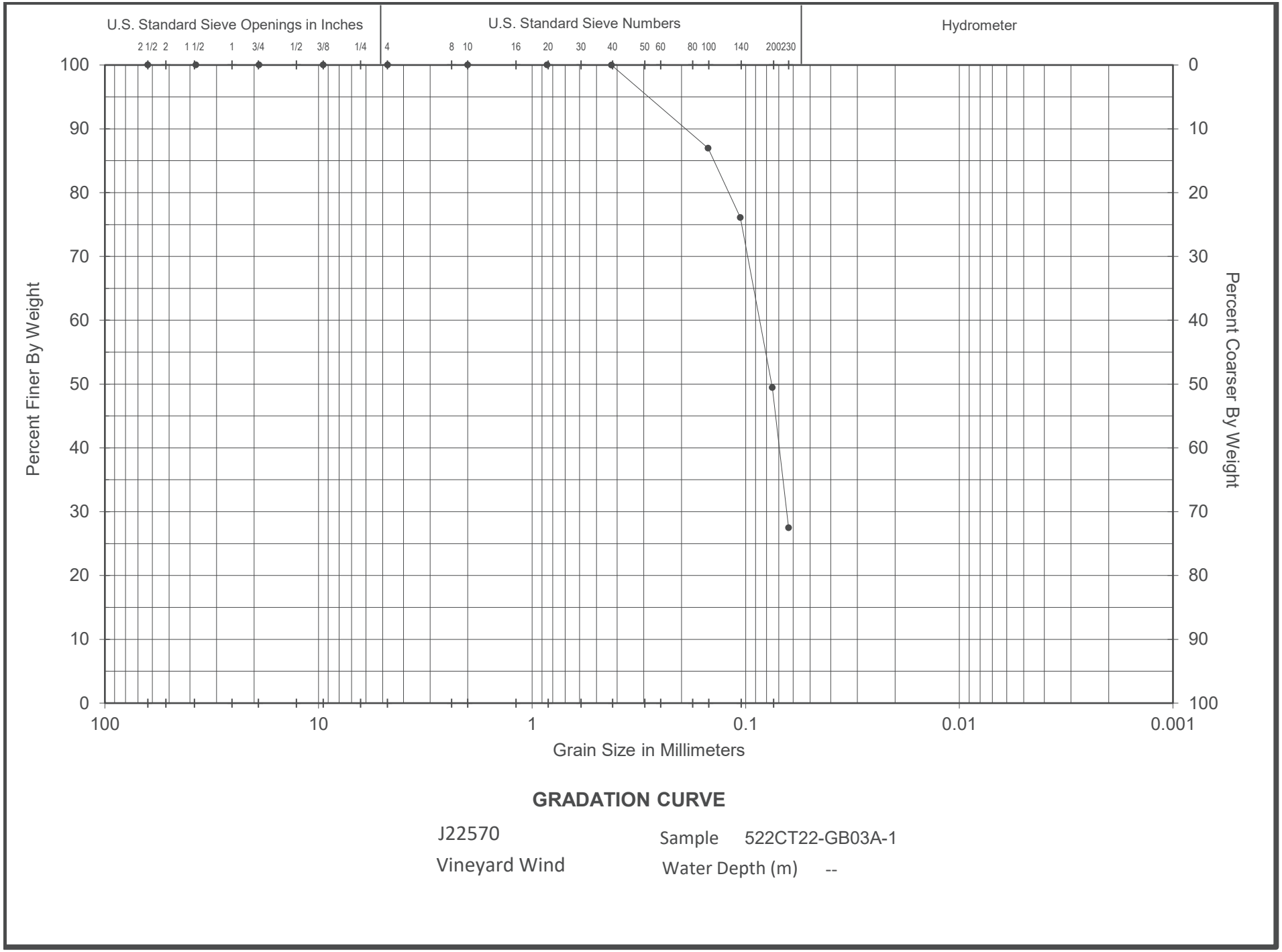
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	99.98	0.02	
0.15	100	86.95	13.05	
0.106	140	76.08	23.92	
0.075	200	49.45	50.55	
0.063	230	27.47	72.53	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	27.47
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	72.53
% Silt and Clay	< 0.0625 mm	27.47
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.02
% Fine Sand	0.0625 - 0.25 mm	72.51

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	27.47	0.063	#N/A	#N/A	#N/A
D30	30	49.45	0.075	27.47	0.063	0.064
D50	50	76.08	0.106	49.45	0.075	0.076
D60	60	76.08	0.106	49.45	0.075	0.086

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB03A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB03B-1
Water Depth (m)	--

Grain Size Data

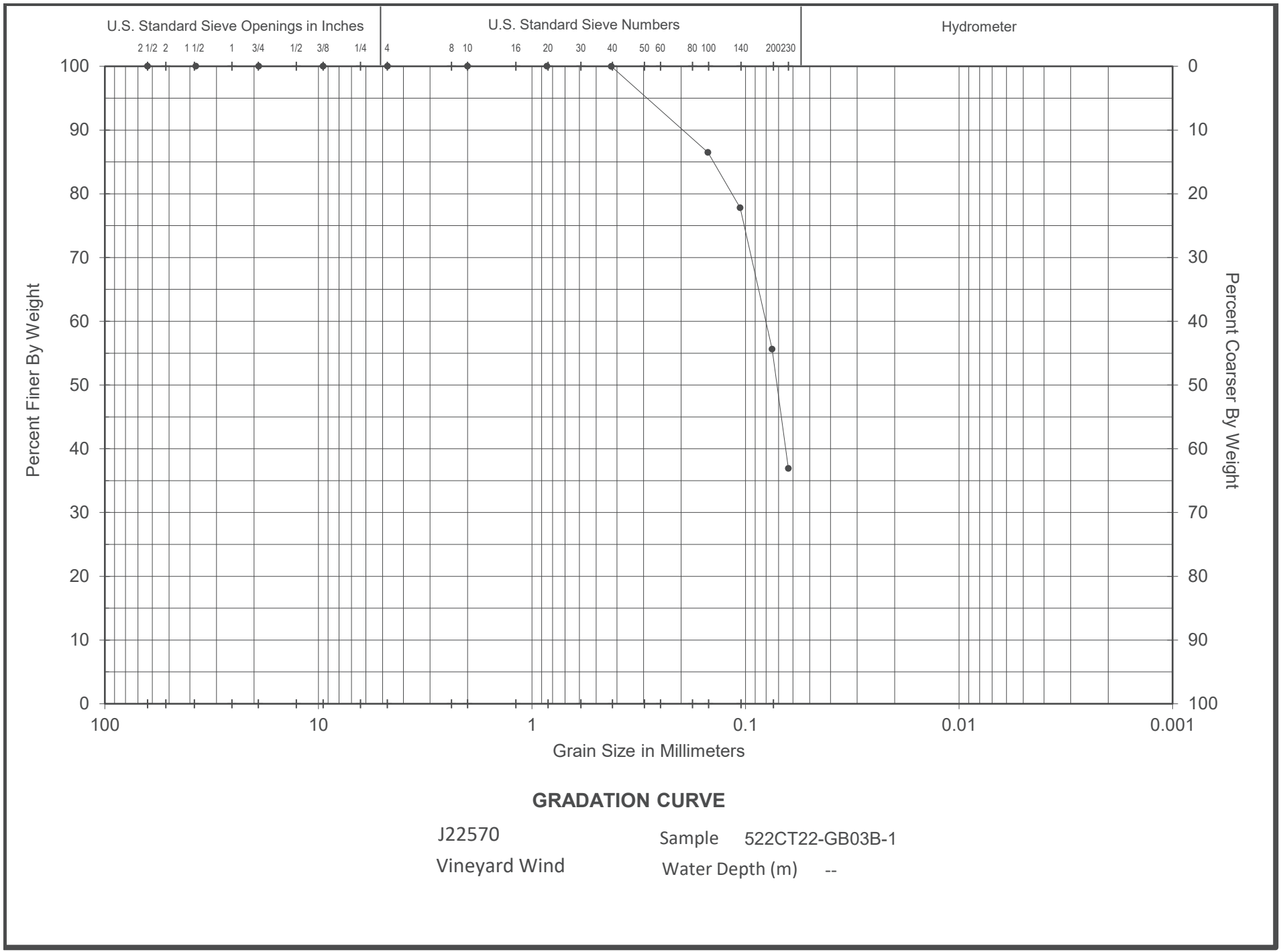
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	99.98	0.02	
0.15	100	86.48	13.52	
0.106	140	77.79	22.21	
0.075	200	55.63	44.37	
0.063	230	36.93	63.07	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	36.93
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	63.07
% Silt and Clay	< 0.0625 mm	36.93
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.02
% Fine Sand	0.0625 - 0.25 mm	63.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	36.93	0.063	#N/A	#N/A	#N/A
D30	30	36.93	0.063	#N/A	#N/A	#N/A
D50	50	55.63	0.075	36.93	0.063	0.071
D60	60	77.79	0.106	55.63	0.075	0.080

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB03B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB03C-1
Water Depth (m)	--

Grain Size Data

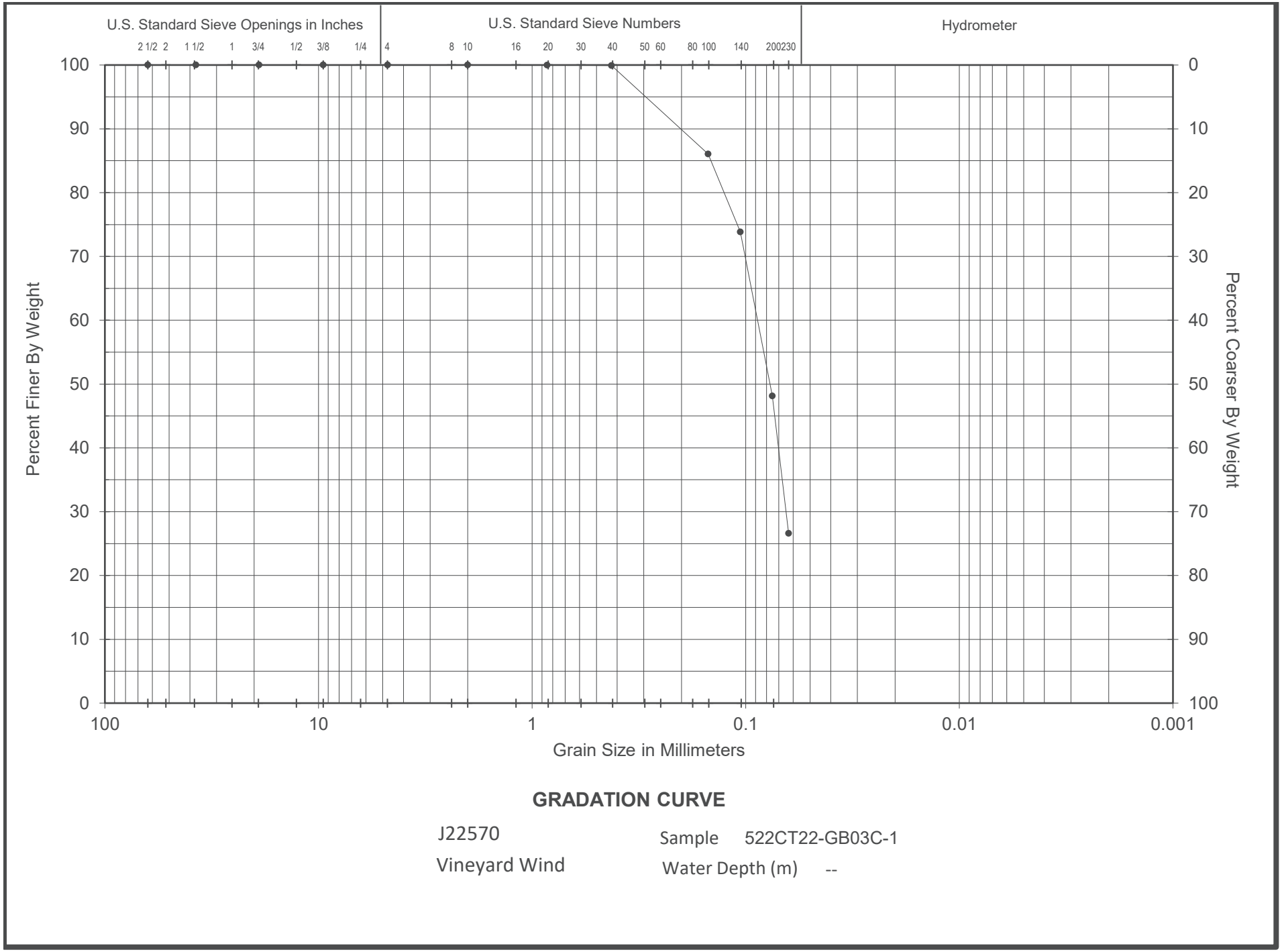
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.93	0.07	
0.15	100	86.04	13.96	
0.106	140	73.83	26.17	
0.075	200	48.13	51.87	
0.063	230	26.62	73.38	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	26.62
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	73.38
% Silt and Clay	< 0.0625 mm	26.62
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.06
% Fine Sand	0.0625 - 0.25 mm	73.31

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	26.62	0.063	#N/A	#N/A	#N/A
D30	30	48.13	0.075	26.62	0.063	0.065
D50	50	73.83	0.106	48.13	0.075	0.077
D60	60	73.83	0.106	48.13	0.075	0.088

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB03C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB04-1
Water Depth (m)	--

Grain Size Data

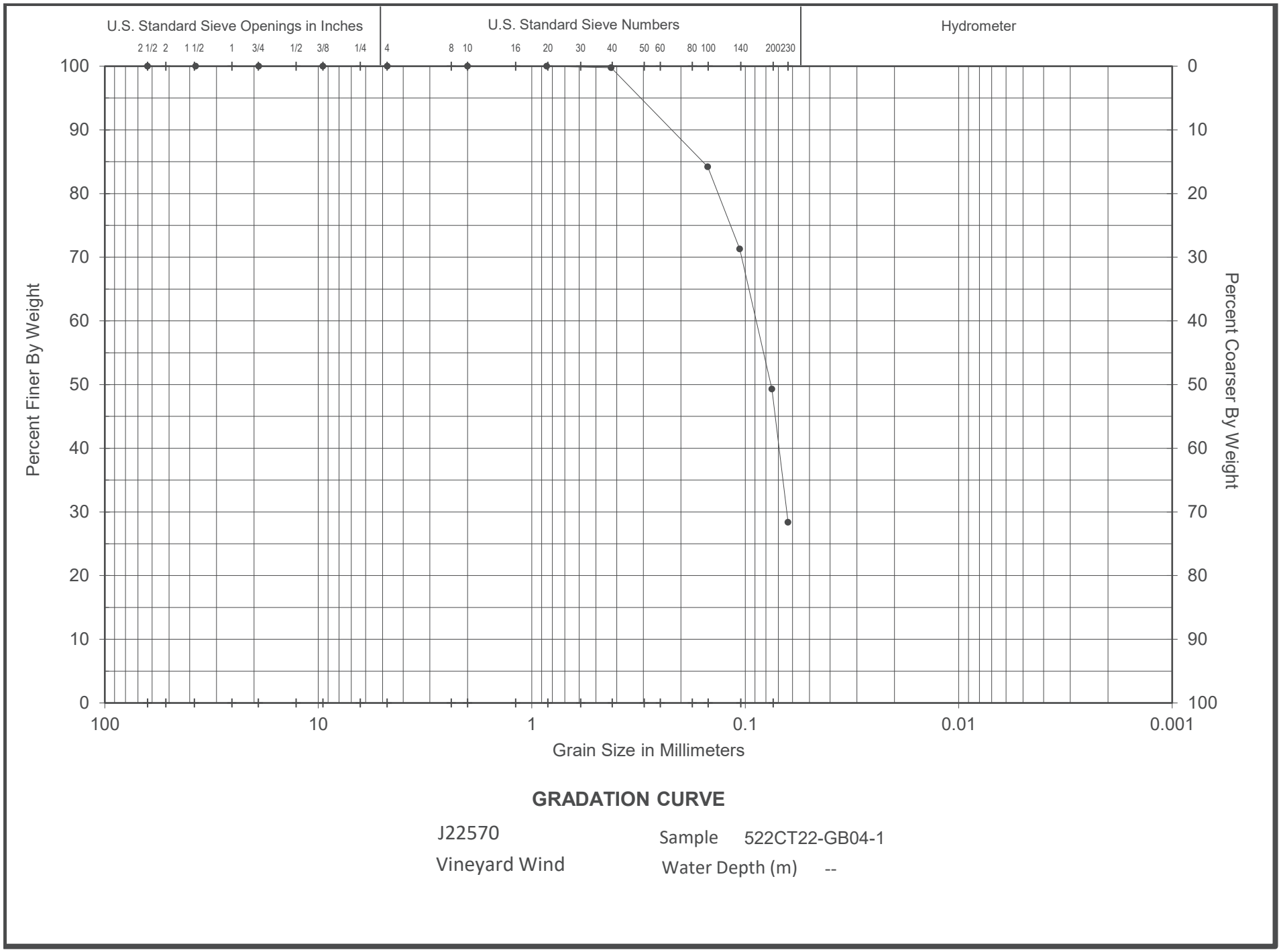
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.76	0.24	
0.15	100	84.21	15.79	
0.106	140	71.28	28.72	
0.075	200	49.29	50.71	
0.063	230	28.39	71.61	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	28.39
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	71.61
% Silt and Clay	< 0.0625 mm	28.39
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.23
% Fine Sand	0.0625 - 0.25 mm	71.38

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	28.39	0.063	#N/A	#N/A	#N/A
D30	30	49.29	0.075	28.39	0.063	0.064
D50	50	71.28	0.106	49.29	0.075	0.076
D60	60	71.28	0.106	49.29	0.075	0.089

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB04-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB05A-1
Water Depth (m)	--

Grain Size Data

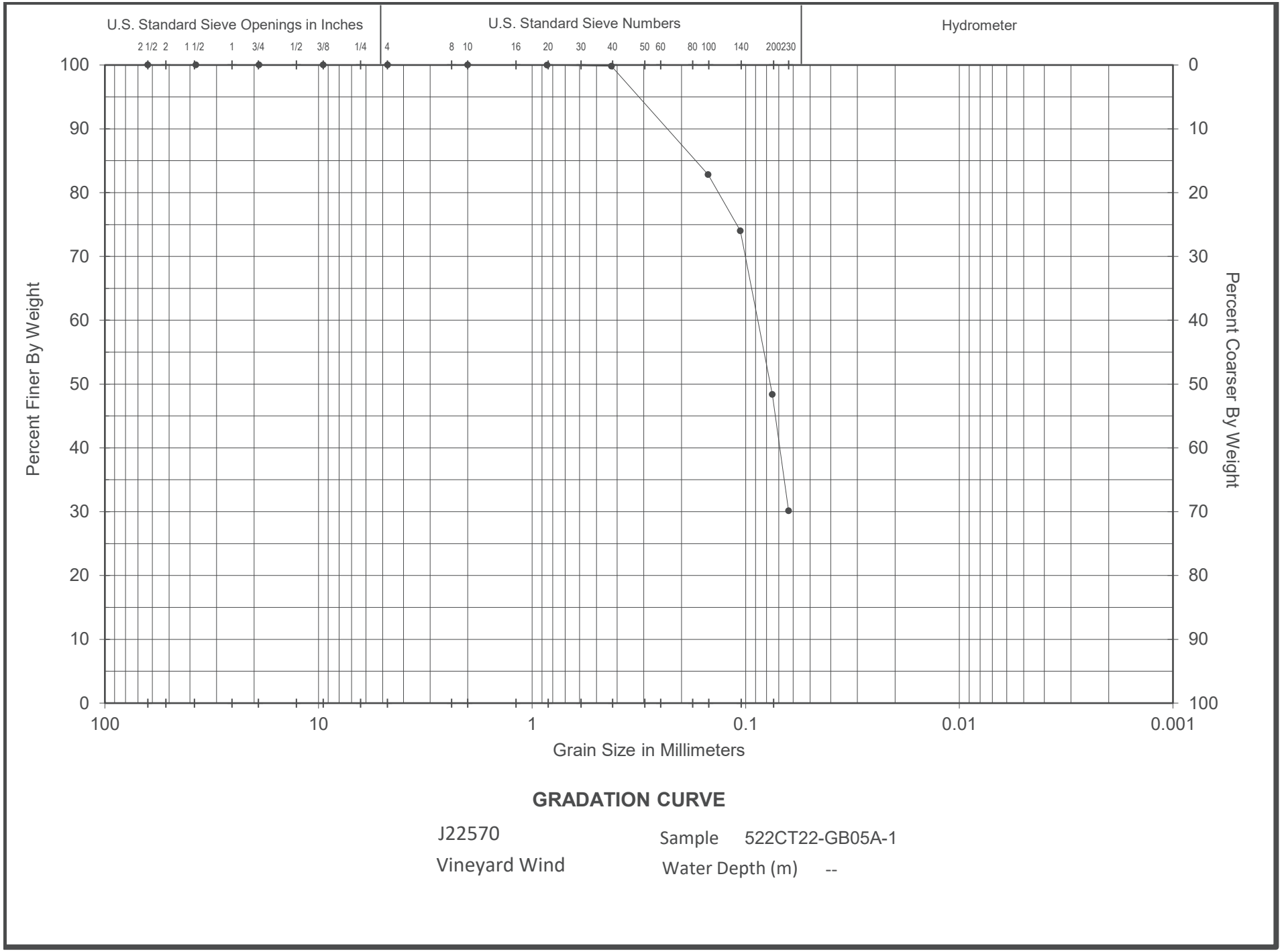
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.98	0.02	
0.425	40	99.82	0.18	
0.15	100	82.83	17.17	
0.106	140	74.01	25.99	
0.075	200	48.37	51.63	
0.063	230	30.12	69.88	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	30.12
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	69.88
% Silt and Clay	< 0.0625 mm	30.12
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.02
% Medium Sand	0.25 - 0.50 mm	0.16
% Fine Sand	0.0625 - 0.25 mm	69.70

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	30.12	0.063	#N/A	#N/A	#N/A
D30	30	30.12	0.063	#N/A	#N/A	#N/A
D50	50	74.01	0.106	48.37	0.075	0.077
D60	60	74.01	0.106	48.37	0.075	0.088

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB05A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB05B-1
Water Depth (m)	--

Grain Size Data

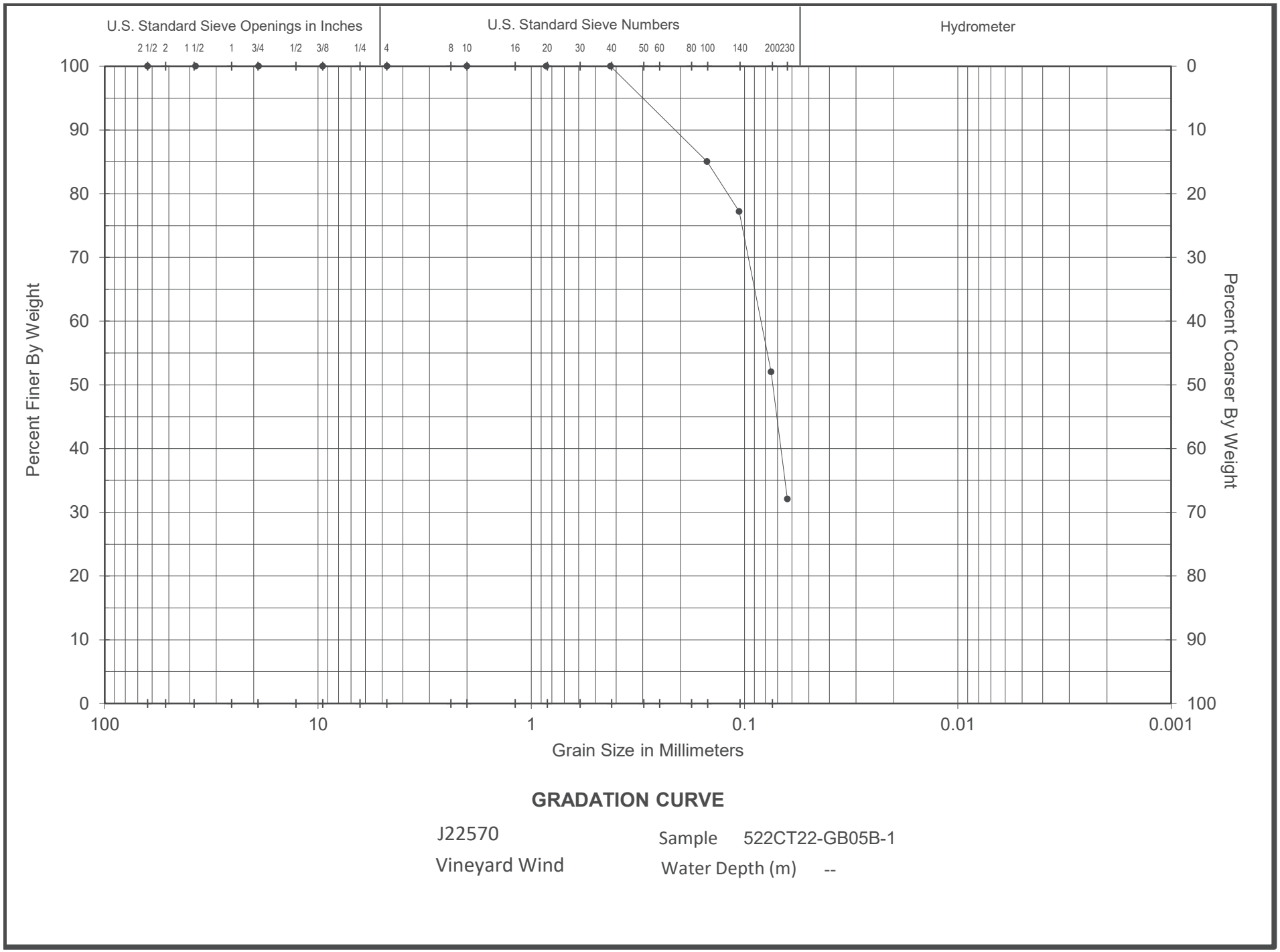
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	100.00	0.00	
0.15	100	85.04	14.96	
0.106	140	77.21	22.79	
0.075	200	52.03	47.97	
0.063	230	32.09	67.91	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	32.09
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	67.91
% Silt and Clay	< 0.0625 mm	32.09
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.00
% Fine Sand	0.0625 - 0.25 mm	67.91

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	32.09	0.063	#N/A	#N/A	#N/A
D30	30	32.09	0.063	#N/A	#N/A	#N/A
D50	50	52.03	0.075	32.09	0.063	0.074
D60	60	77.21	0.106	52.03	0.075	0.084

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB05B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB05C-1
Water Depth (m)	--

Grain Size Data

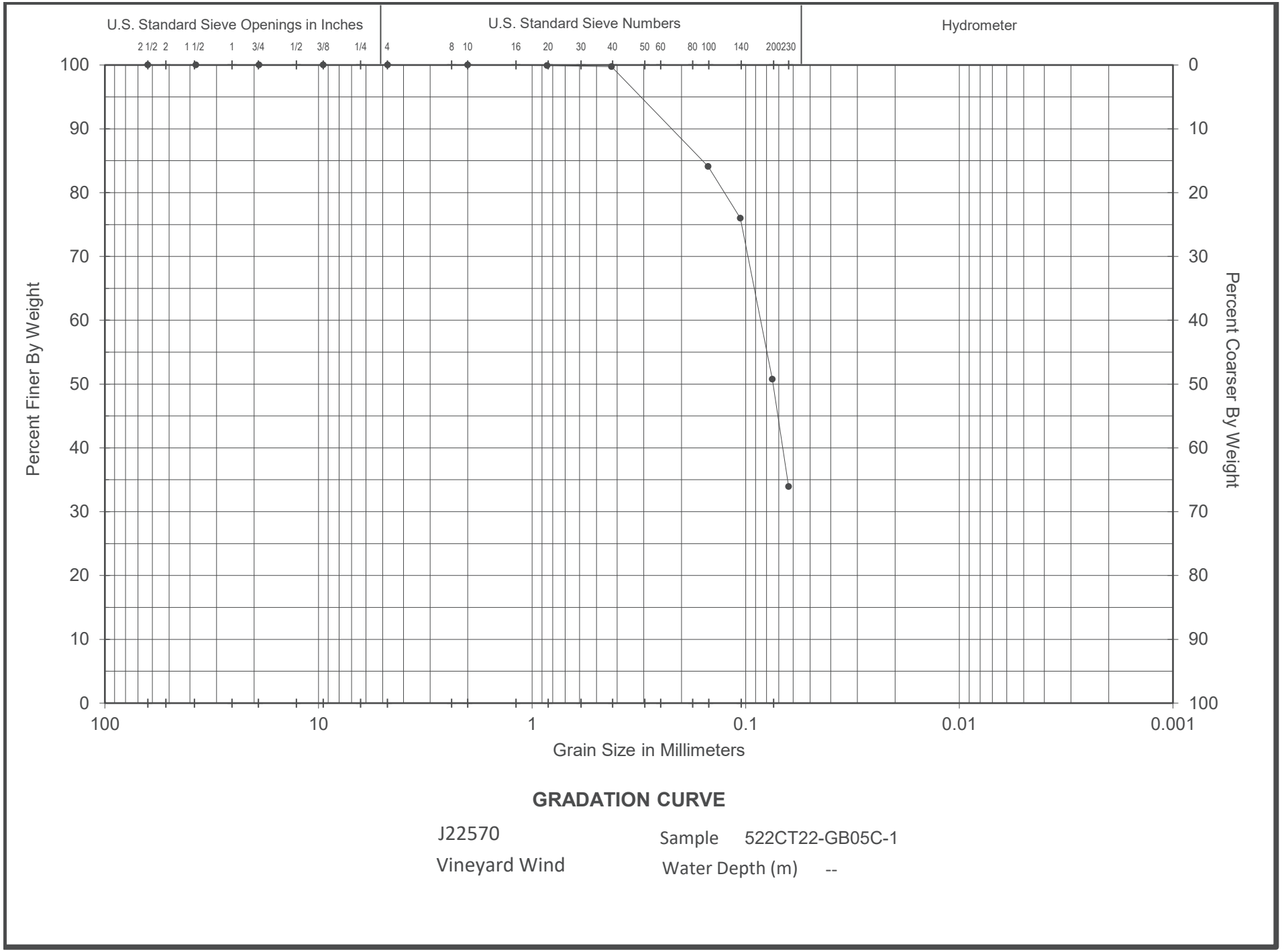
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.91	0.09	
0.425	40	99.73	0.27	
0.15	100	84.10	15.90	
0.106	140	76.01	23.99	
0.075	200	50.76	49.24	
0.063	230	33.94	66.06	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	33.94
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	66.06
% Silt and Clay	< 0.0625 mm	33.94
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.09
% Medium Sand	0.25 - 0.50 mm	0.17
% Fine Sand	0.0625 - 0.25 mm	65.79

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.94	0.063	#N/A	#N/A	#N/A
D30	30	33.94	0.063	#N/A	#N/A	#N/A
D50	50	50.76	0.075	33.94	0.063	0.074
D60	60	76.01	0.106	50.76	0.075	0.085

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB05C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB06-1
Water Depth (m)	--

Grain Size Data

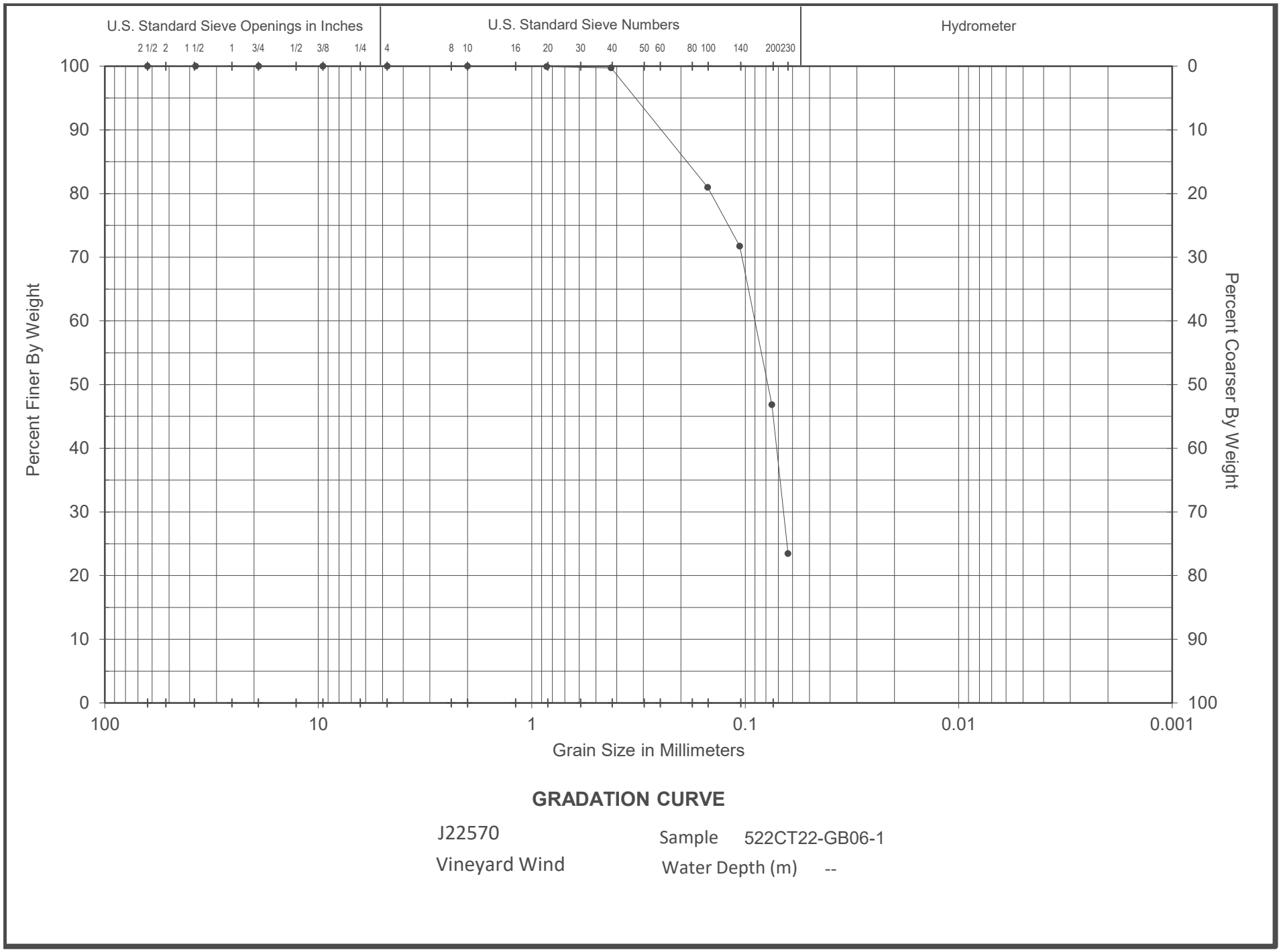
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.95	0.05	
0.425	40	99.72	0.28	
0.15	100	80.97	19.03	
0.106	140	71.73	28.27	
0.075	200	46.83	53.17	
0.063	230	23.45	76.55	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	23.45
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	76.54
% Silt and Clay	< 0.0625 mm	23.45
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	0.23
% Fine Sand	0.0625 - 0.25 mm	76.27

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.45	0.063	#N/A	#N/A	#N/A
D30	30	46.83	0.075	23.45	0.063	0.066
D50	50	71.73	0.106	46.83	0.075	0.078
D60	60	71.73	0.106	46.83	0.075	0.090

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB06-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB07A-1
Water Depth (m)	--

Grain Size Data

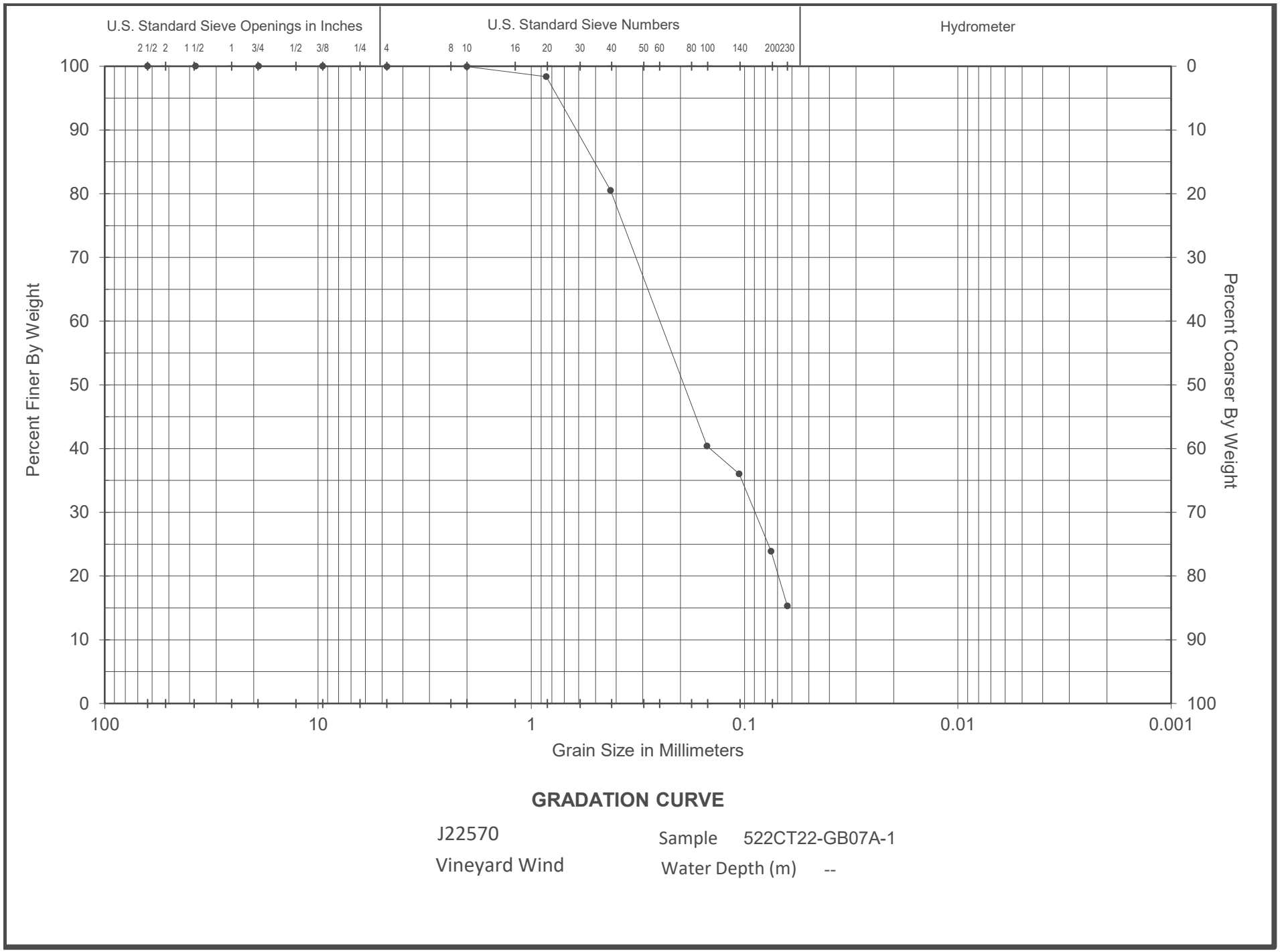
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.95	0.05	
2	10	99.94	0.06	0.00
0.85	20	98.37	1.63	
0.425	40	80.50	19.50	
0.15	100	40.39	59.61	
0.106	140	36.04	63.96	
0.075	200	23.88	76.12	
0.063	230	15.30	84.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	15.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	84.65
% Silt and Clay	< 0.0625 mm	15.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.58
% Medium Sand	0.25 - 0.50 mm	17.87
% Fine Sand	0.0625 - 0.25 mm	65.20

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.30	0.063	#N/A	#N/A	#N/A
D30	30	36.04	0.106	23.88	0.075	0.089
D50	50	80.50	0.425	40.39	0.150	0.193
D60	60	80.50	0.425	40.39	0.150	0.250

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB07A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB07B-1
Water Depth (m)	--

Grain Size Data

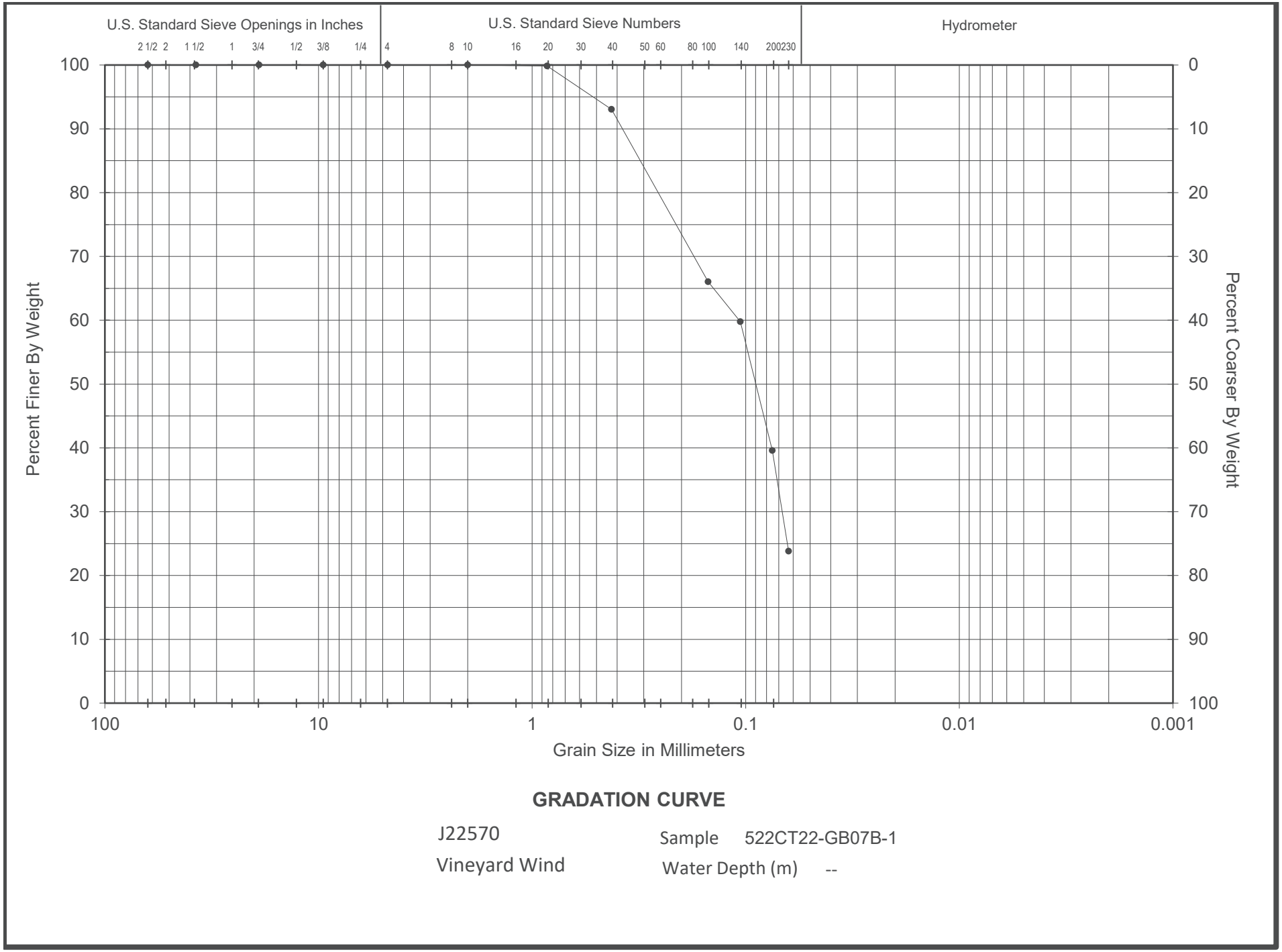
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.85	0.15	
0.425	40	93.05	6.95	
0.15	100	66.03	33.97	
0.106	140	59.78	40.22	
0.075	200	39.60	60.40	
0.063	230	23.80	76.20	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	23.80
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	76.20
% Silt and Clay	< 0.0625 mm	23.80
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.15
% Medium Sand	0.25 - 0.50 mm	6.80
% Fine Sand	0.0625 - 0.25 mm	69.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.80	0.063	#N/A	#N/A	#N/A
D30	30	39.60	0.075	23.80	0.063	0.067
D50	50	59.78	0.106	39.60	0.075	0.090
D60	60	66.03	0.150	59.78	0.106	0.107

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB07B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB07C-2
Water Depth (m)	--

Grain Size Data

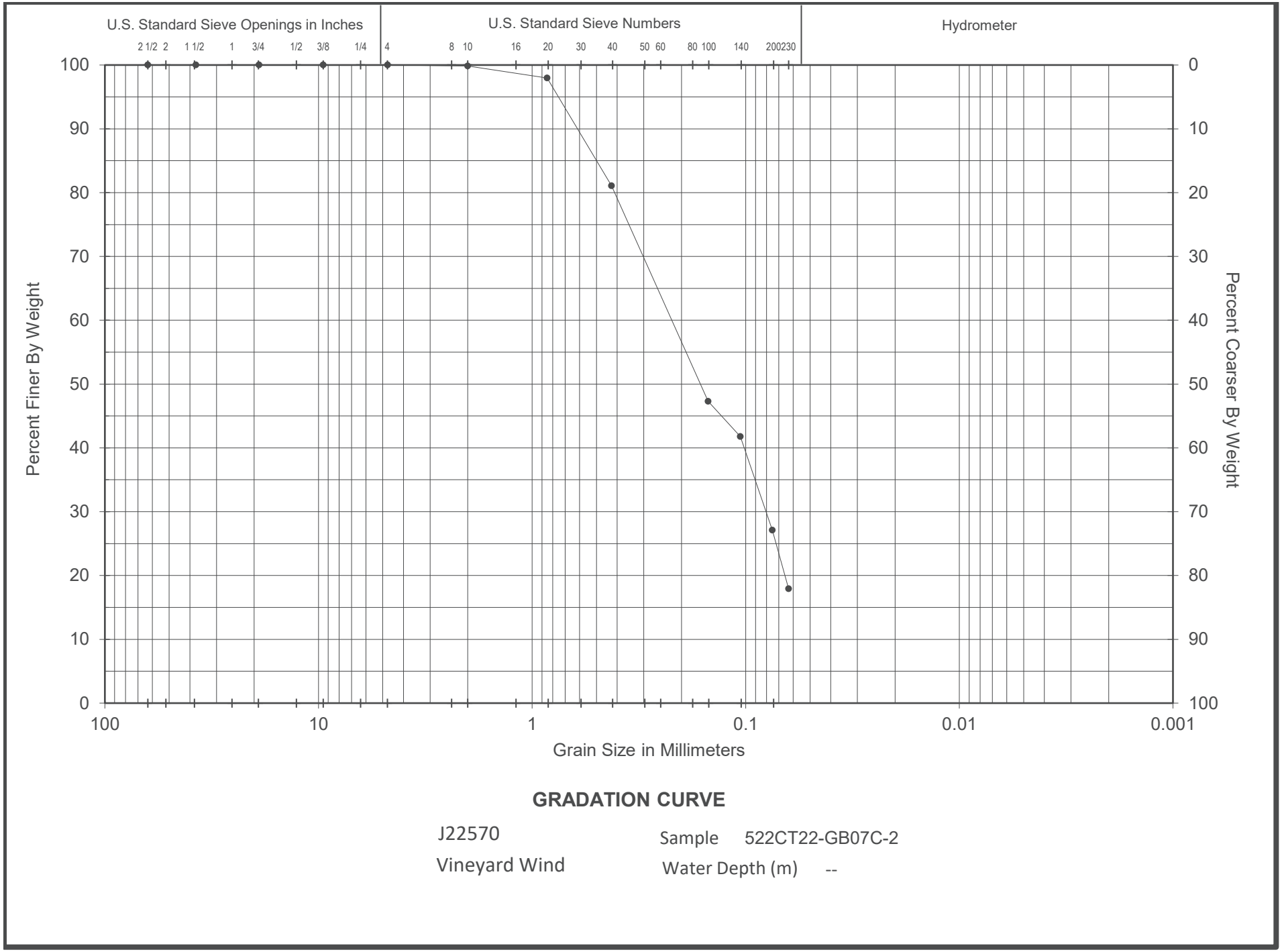
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.84	0.16	89.19
0.85	20	97.95	2.05	
0.425	40	81.09	18.91	
0.15	100	47.31	52.69	
0.106	140	41.76	58.24	
0.075	200	27.12	72.88	
0.063	230	17.93	82.07	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.84
% Passing #230	17.93
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.02
% Gravel-Sized Shell	> 2.00 mm	0.14
% Sand	0.0625 - 2.00 mm	81.91
% Silt and Clay	< 0.0625 mm	17.93
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.05
% Medium Sand	0.25 - 0.50 mm	16.86
% Fine Sand	0.0625 - 0.25 mm	63.16

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.93	0.063	#N/A	#N/A	#N/A
D30	30	41.76	0.106	27.12	0.075	0.080
D50	50	81.09	0.425	47.31	0.150	0.163
D60	60	81.09	0.425	47.31	0.150	0.222

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB07C-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB08-1
Water Depth (m)	--

Grain Size Data

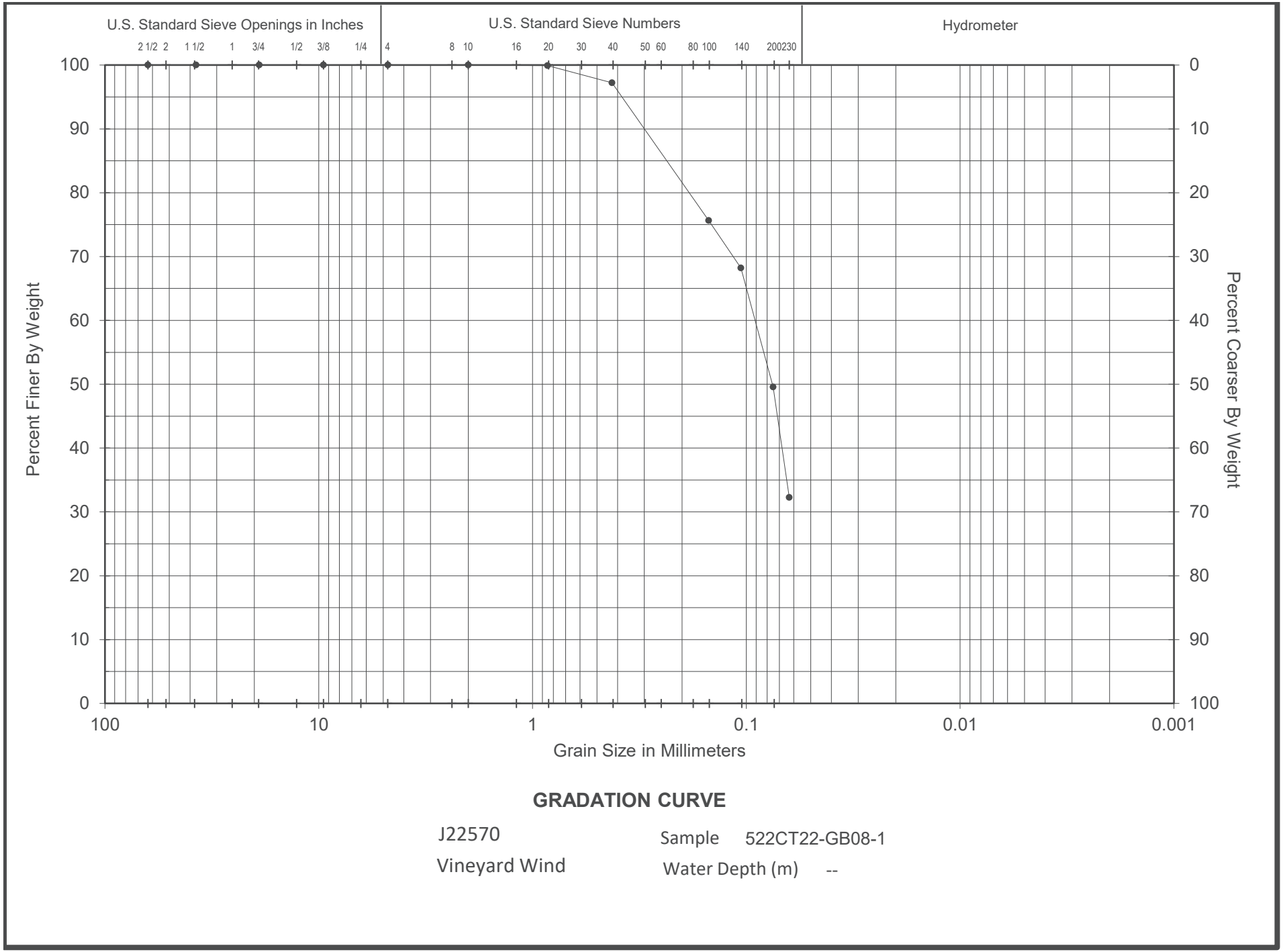
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.91	0.09	
0.425	40	97.22	2.78	
0.15	100	75.65	24.35	
0.106	140	68.20	31.80	
0.075	200	49.57	50.43	
0.063	230	32.28	67.72	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	32.28
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	67.72
% Silt and Clay	< 0.0625 mm	32.28
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.09
% Medium Sand	0.25 - 0.50 mm	2.69
% Fine Sand	0.0625 - 0.25 mm	64.94

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	32.28	0.063	#N/A	#N/A	#N/A
D30	30	32.28	0.063	#N/A	#N/A	#N/A
D50	50	68.20	0.106	49.57	0.075	0.076
D60	60	68.20	0.106	49.57	0.075	0.091

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB08-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB09A-1
Water Depth (m)	--

Grain Size Data

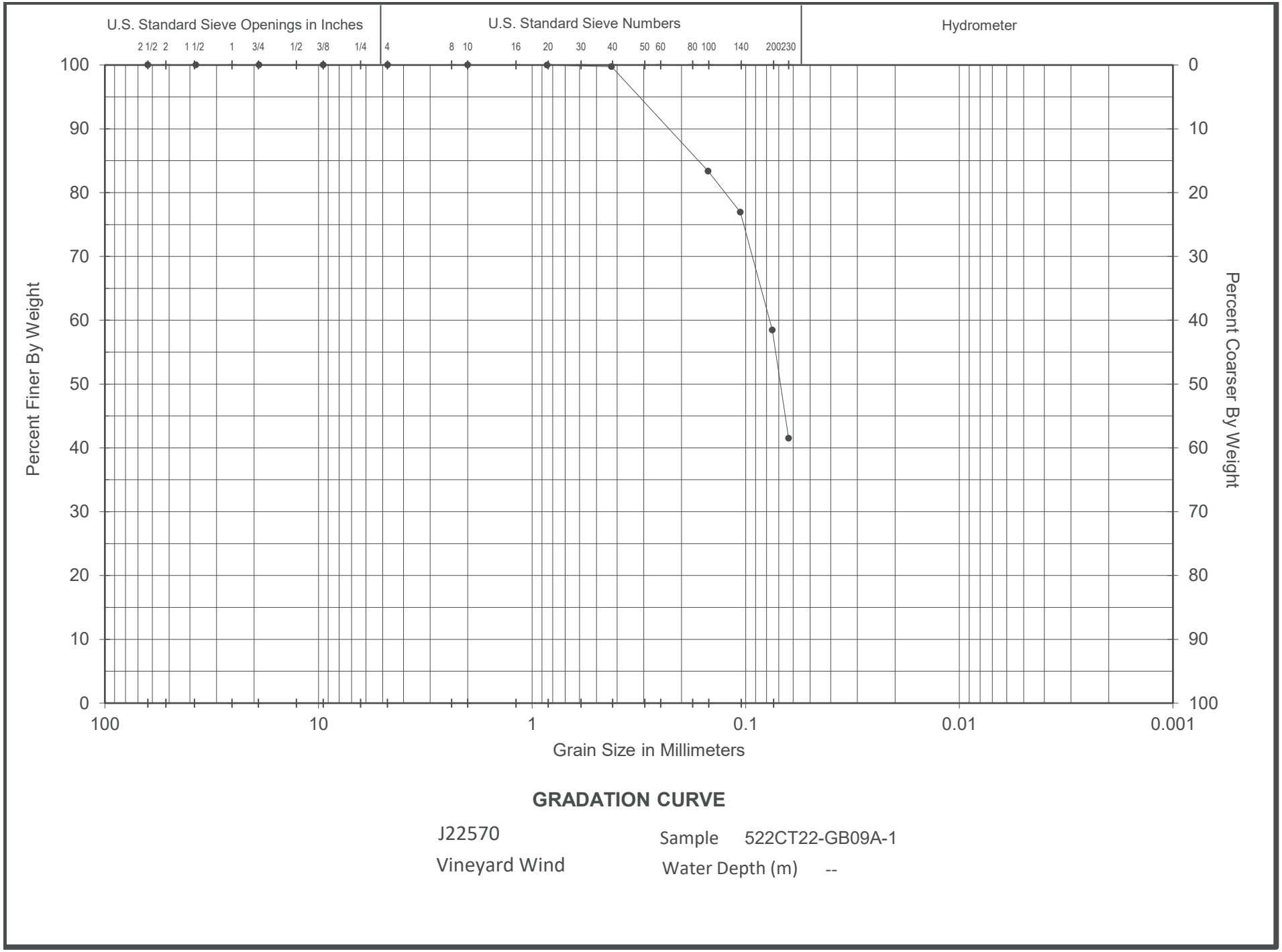
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.98	0.02	
0.425	40	99.76	0.24	
0.15	100	83.37	16.63	
0.106	140	76.95	23.05	
0.075	200	58.45	41.55	
0.063	230	41.52	58.48	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	41.52
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	58.48
% Silt and Clay	< 0.0625 mm	41.52
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.02
% Medium Sand	0.25 - 0.50 mm	0.22
% Fine Sand	0.0625 - 0.25 mm	58.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	41.52	0.063	#N/A	#N/A	#N/A
D30	30	41.52	0.063	#N/A	#N/A	#N/A
D50	50	58.45	0.075	41.52	0.063	0.069
D60	60	76.95	0.106	58.45	0.075	0.077

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB09A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB09B-1
Water Depth (m)	--

Grain Size Data

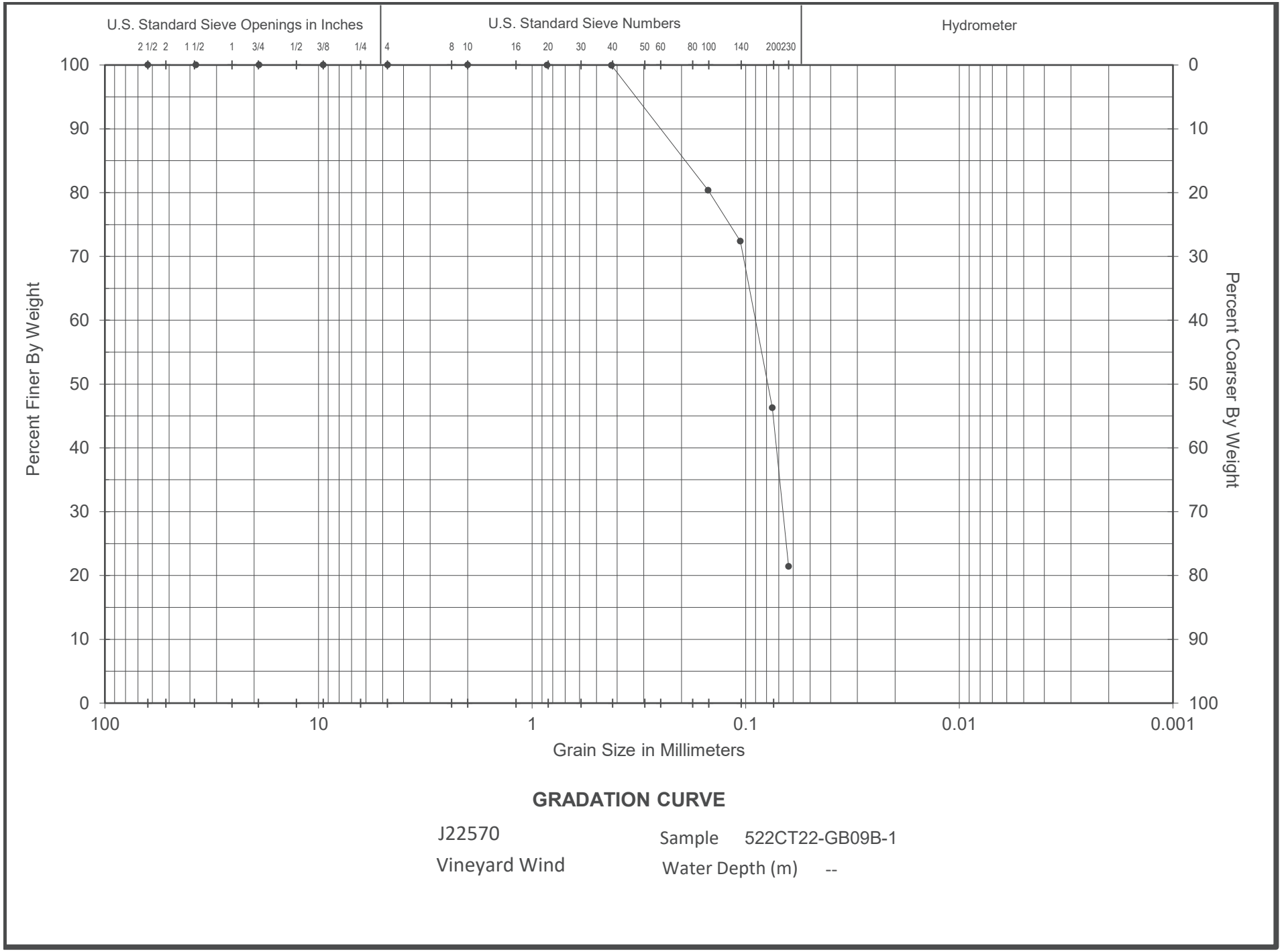
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.95	0.05	
0.15	100	80.37	19.63	
0.106	140	72.38	27.62	
0.075	200	46.27	53.73	
0.063	230	21.41	78.59	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	21.41
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	78.59
% Silt and Clay	< 0.0625 mm	21.41
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.04
% Fine Sand	0.0625 - 0.25 mm	78.54

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.41	0.063	#N/A	#N/A	#N/A
D30	30	46.27	0.075	21.41	0.063	0.067
D50	50	72.38	0.106	46.27	0.075	0.079
D60	60	72.38	0.106	46.27	0.075	0.090

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB09B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB09C-1
Water Depth (m)	--

Grain Size Data

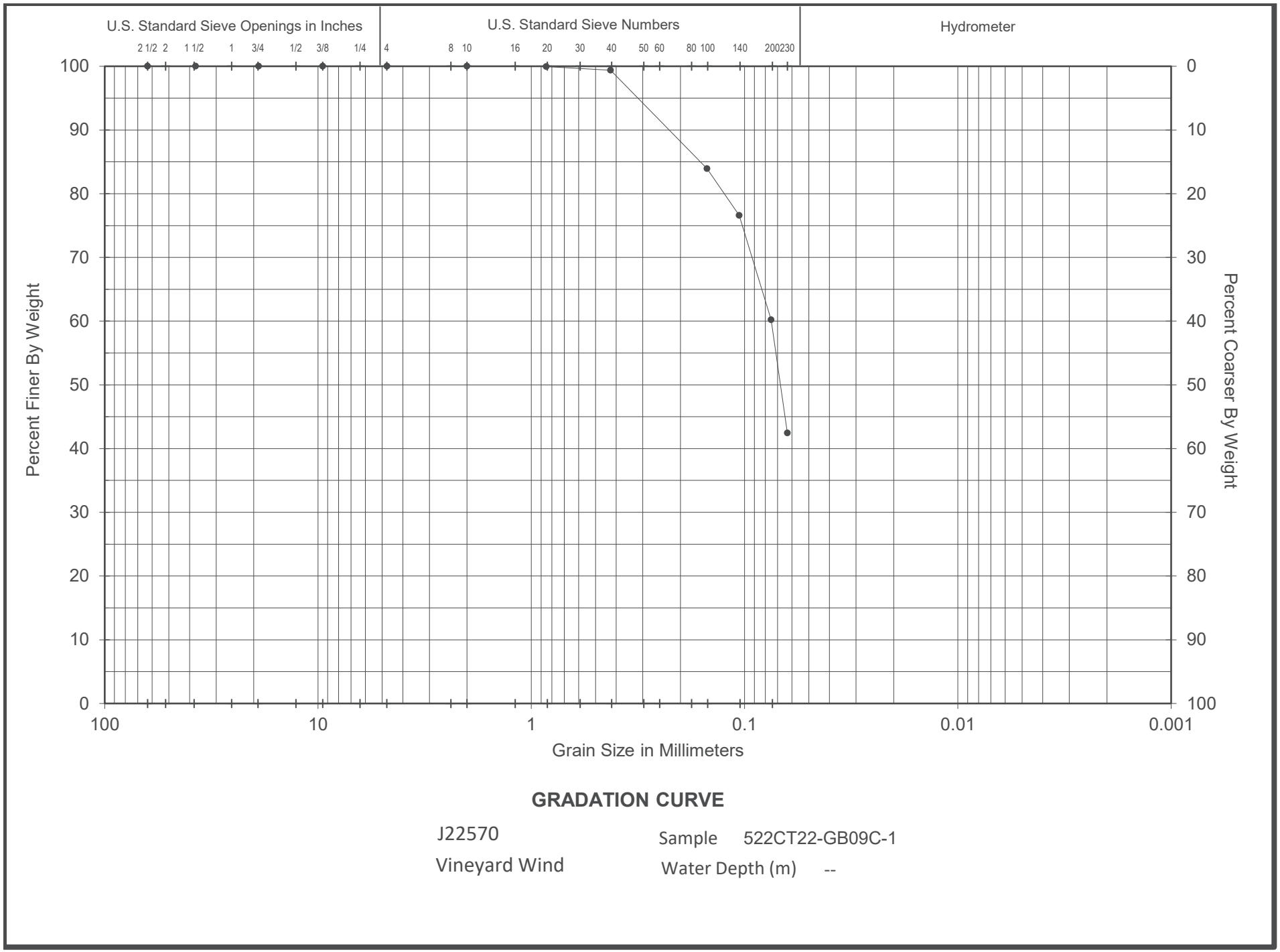
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.95	0.05	
0.425	40	99.37	0.63	
0.15	100	83.92	16.08	
0.106	140	76.59	23.41	
0.075	200	60.20	39.80	
0.063	230	42.44	57.56	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	42.44
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	57.56
% Silt and Clay	< 0.0625 mm	42.44
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	0.58
% Fine Sand	0.0625 - 0.25 mm	56.93

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	42.44	0.063	#N/A	#N/A	#N/A
D30	30	42.44	0.063	#N/A	#N/A	#N/A
D50	50	60.20	0.075	42.44	0.063	0.068
D60	60	60.20	0.075	42.44	0.063	0.075

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB09C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB10-1
Water Depth (m)	--

Grain Size Data

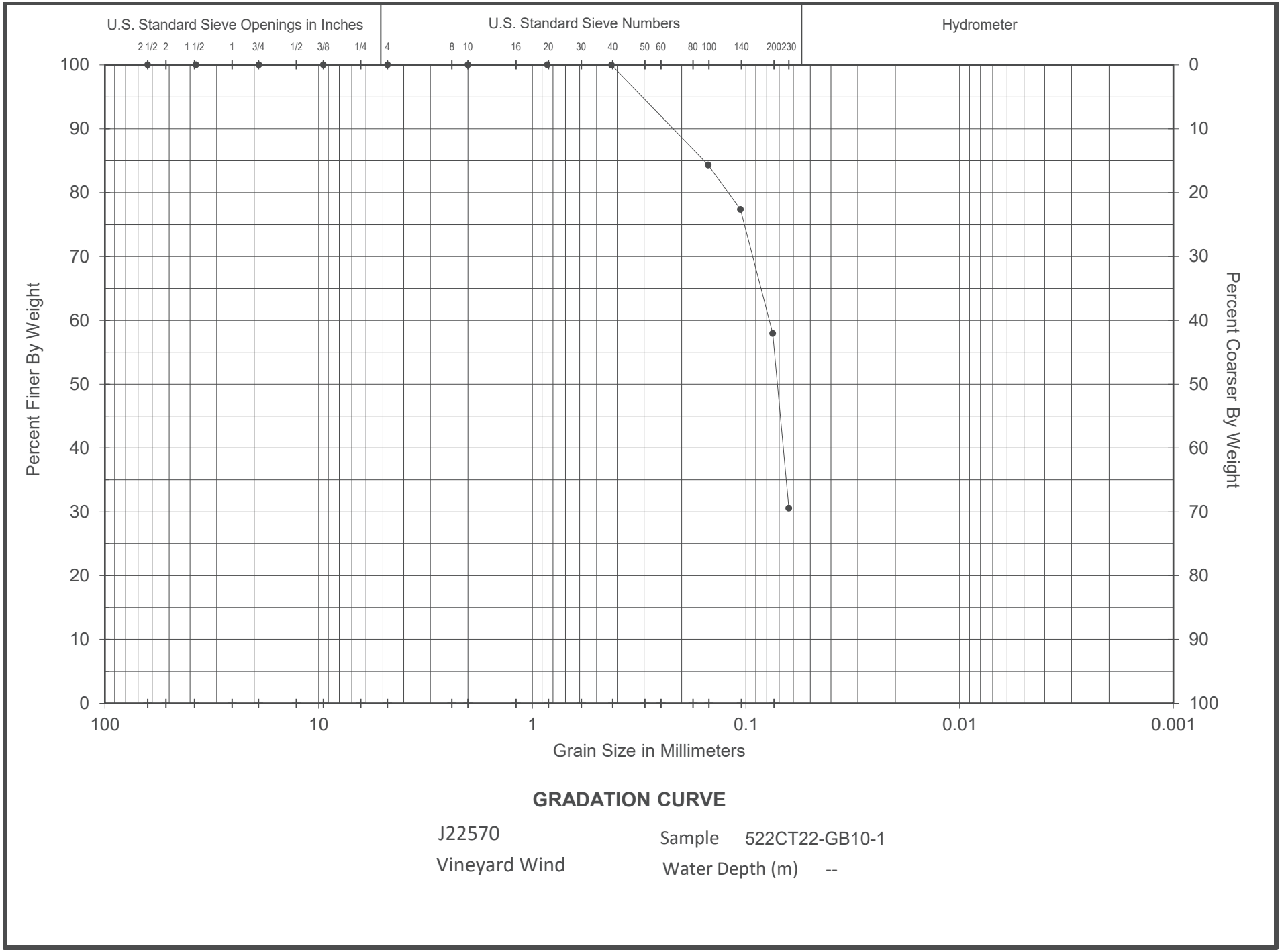
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	99.98	0.02	
0.15	100	84.34	15.66	
0.106	140	77.34	22.66	
0.075	200	57.94	42.06	
0.063	230	30.57	69.43	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	30.57
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	69.43
% Silt and Clay	< 0.0625 mm	30.57
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	0.02
% Fine Sand	0.0625 - 0.25 mm	69.41

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	30.57	0.063	#N/A	#N/A	#N/A
D30	30	30.57	0.063	#N/A	#N/A	#N/A
D50	50	57.94	0.075	30.57	0.063	0.071
D60	60	77.34	0.106	57.94	0.075	0.078

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB10-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB11A-1
Water Depth (m)	--

Grain Size Data

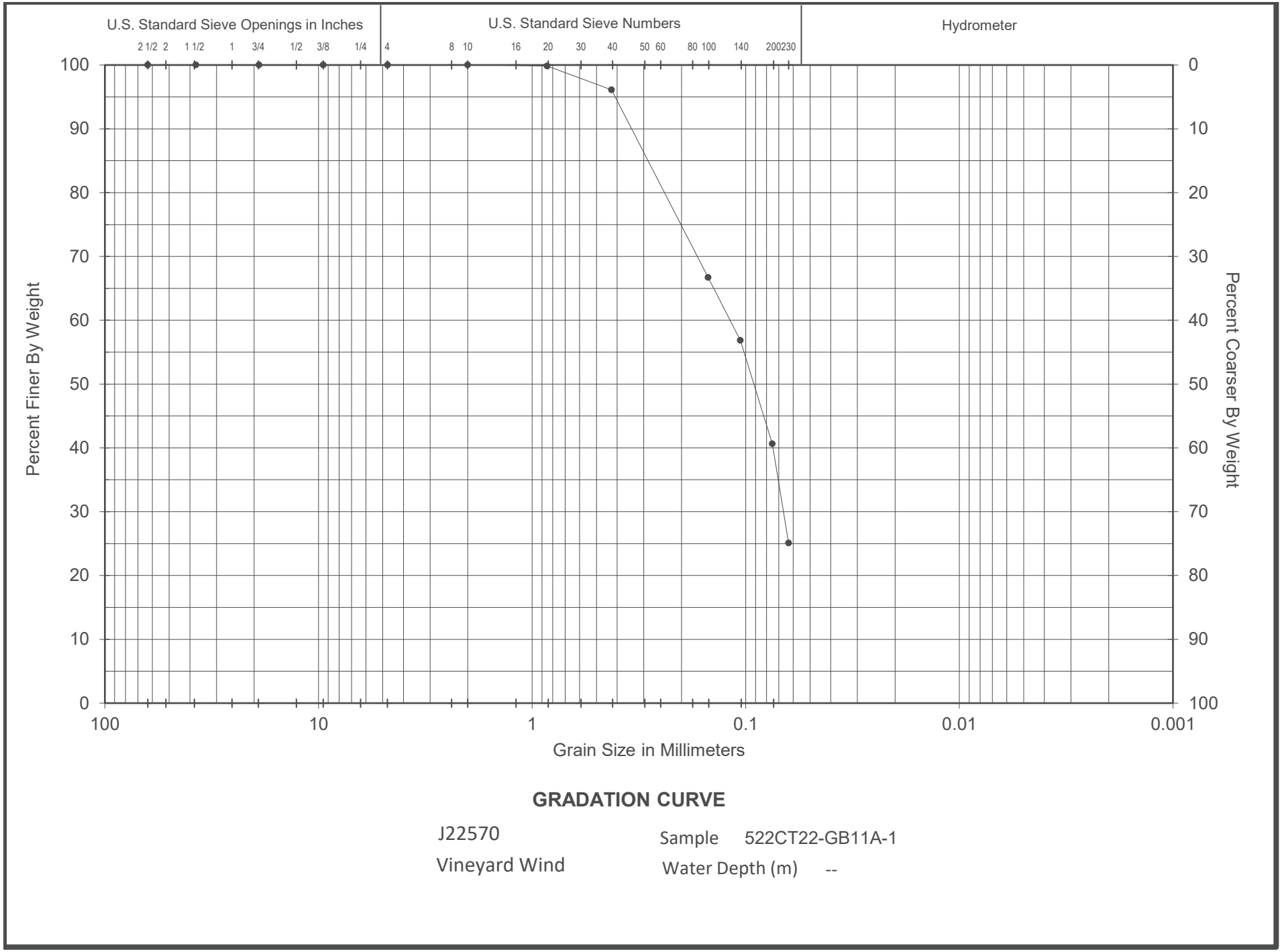
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.85	0.15	
0.425	40	96.11	3.89	
0.15	100	66.71	33.29	
0.106	140	56.86	43.14	
0.075	200	40.64	59.36	
0.063	230	25.08	74.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	25.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	74.92
% Silt and Clay	< 0.0625 mm	25.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.15
% Medium Sand	0.25 - 0.50 mm	3.74
% Fine Sand	0.0625 - 0.25 mm	71.03

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	25.08	0.063	#N/A	#N/A	#N/A
D30	30	40.64	0.075	25.08	0.063	0.067
D50	50	56.86	0.106	40.64	0.075	0.092
D60	60	66.71	0.150	56.86	0.106	0.118

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB11A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB11B-1
Water Depth (m)	--

Grain Size Data

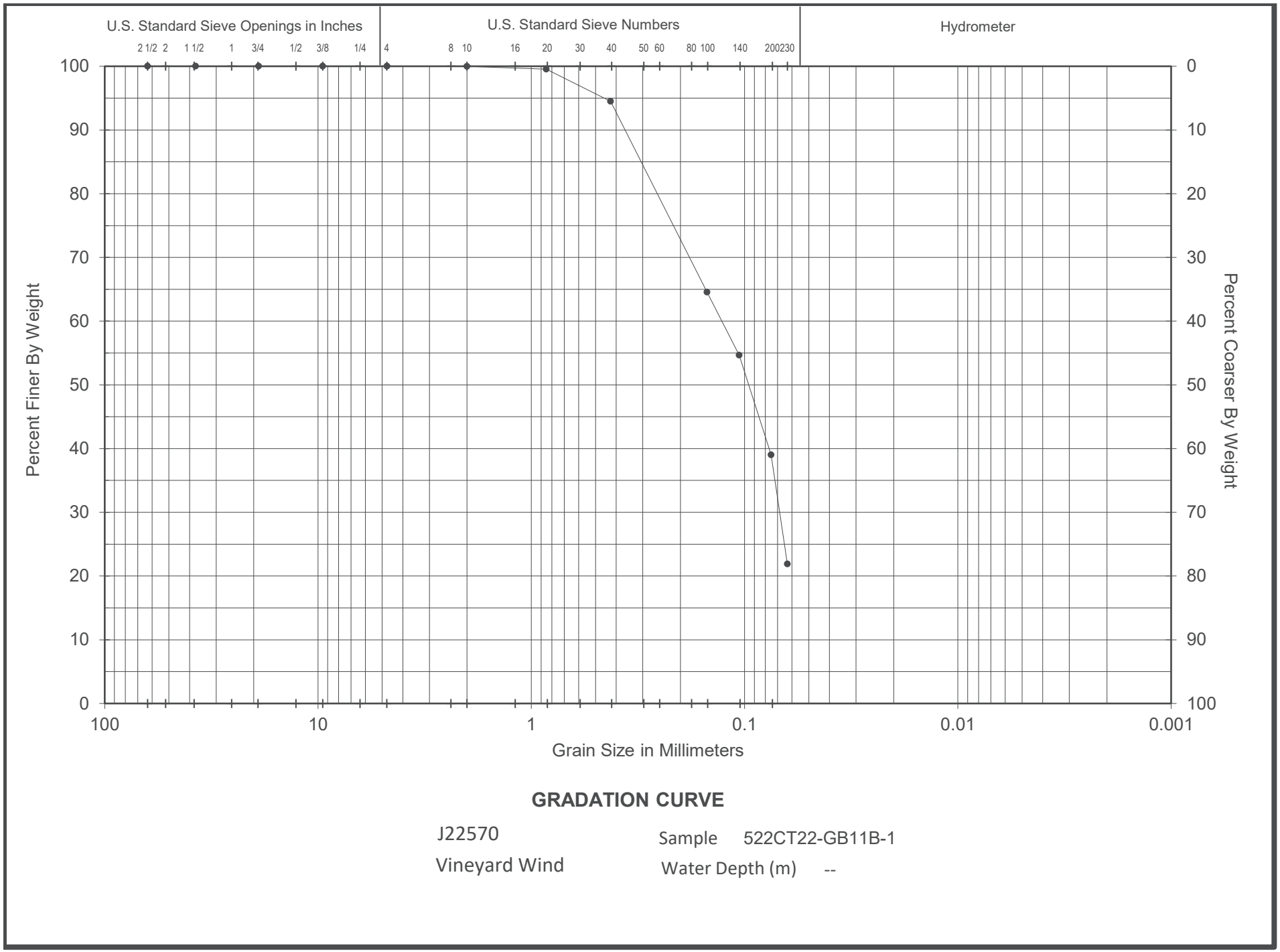
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	0.00
0.85	20	99.55	0.45	
0.425	40	94.51	5.49	
0.15	100	64.54	35.46	
0.106	140	54.67	45.33	
0.075	200	39.02	60.98	
0.063	230	21.88	78.12	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	21.88
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.02
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	78.10
% Silt and Clay	< 0.0625 mm	21.88
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.45
% Medium Sand	0.25 - 0.50 mm	5.03
% Fine Sand	0.0625 - 0.25 mm	72.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.88	0.063	#N/A	#N/A	#N/A
D30	30	39.02	0.075	21.88	0.063	0.068
D50	50	54.67	0.106	39.02	0.075	0.096
D60	60	64.54	0.150	54.67	0.106	0.128

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB11B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB11C-1
Water Depth (m)	--

Grain Size Data

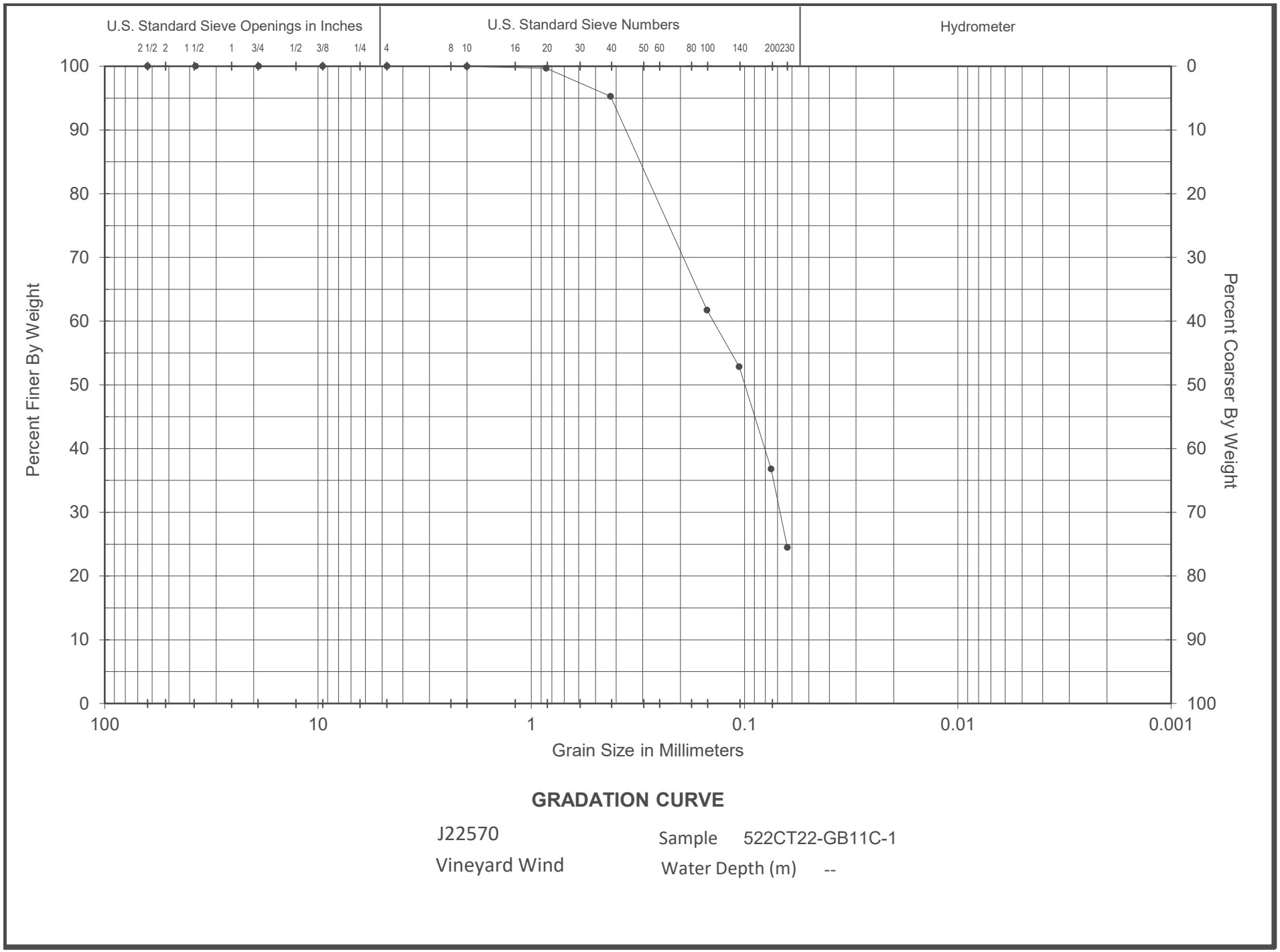
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	0.00
0.85	20	99.67	0.33	
0.425	40	95.28	4.72	
0.15	100	61.73	38.27	
0.106	140	52.84	47.16	
0.075	200	36.79	63.21	
0.063	230	24.48	75.52	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	24.48
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.02
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	75.50
% Silt and Clay	< 0.0625 mm	24.48
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.33
% Medium Sand	0.25 - 0.50 mm	4.39
% Fine Sand	0.0625 - 0.25 mm	70.80

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.48	0.063	#N/A	#N/A	#N/A
D30	30	36.79	0.075	24.48	0.063	0.068
D50	50	52.84	0.106	36.79	0.075	0.100
D60	60	61.73	0.150	52.84	0.106	0.140

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB11C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB12-1
Water Depth (m)	--

Grain Size Data

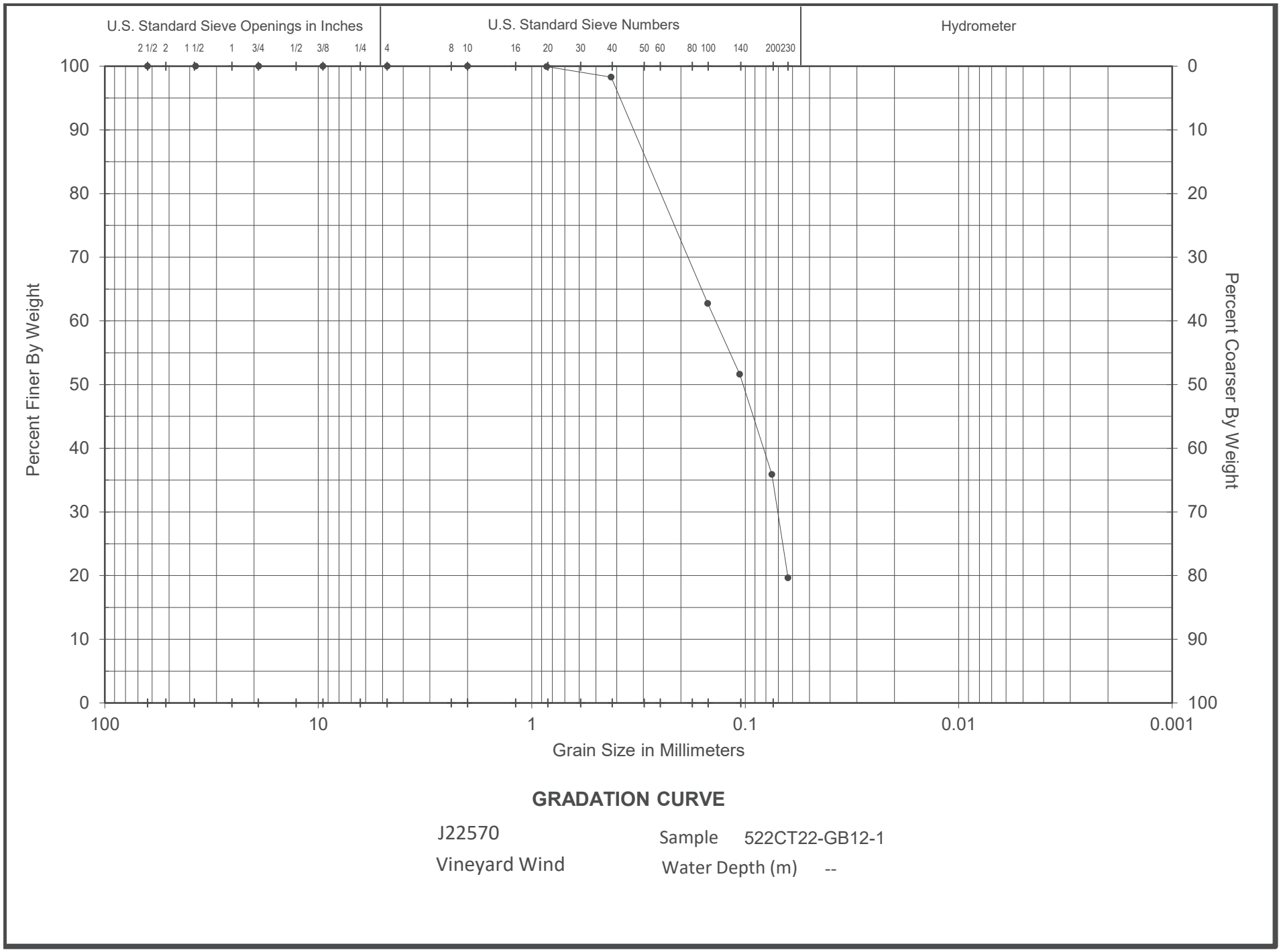
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.94	0.06	
0.425	40	98.27	1.73	
0.15	100	62.74	37.26	
0.106	140	51.62	48.38	
0.075	200	35.90	64.10	
0.063	230	19.63	80.37	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	19.63
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	80.37
% Silt and Clay	< 0.0625 mm	19.63
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.06
% Medium Sand	0.25 - 0.50 mm	1.67
% Fine Sand	0.0625 - 0.25 mm	78.64

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.63	0.063	#N/A	#N/A	#N/A
D30	30	35.90	0.075	19.63	0.063	0.070
D50	50	51.62	0.106	35.90	0.075	0.102
D60	60	62.74	0.150	51.62	0.106	0.138

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB12-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB13A-1
Water Depth (m)	--

Grain Size Data

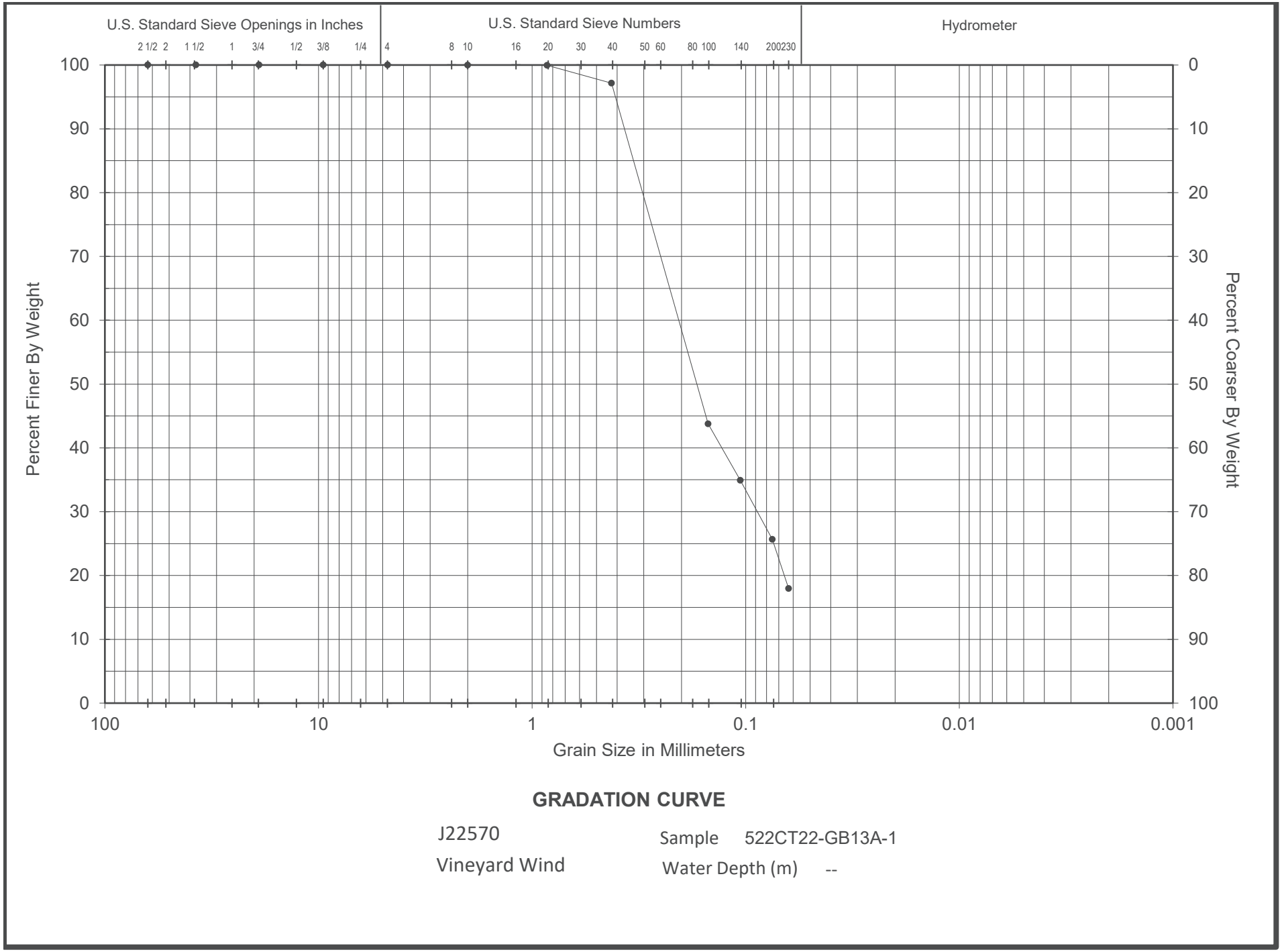
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	0.00
0.85	20	99.95	0.05	
0.425	40	97.14	2.86	
0.15	100	43.75	56.25	
0.106	140	34.92	65.08	
0.075	200	25.67	74.33	
0.063	230	17.97	82.03	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	17.97
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	82.02
% Silt and Clay	< 0.0625 mm	17.97
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	2.82
% Fine Sand	0.0625 - 0.25 mm	79.17

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.97	0.063	#N/A	#N/A	#N/A
D30	30	34.92	0.106	25.67	0.075	0.088
D50	50	97.14	0.425	43.75	0.150	0.169
D60	60	97.14	0.425	43.75	0.150	0.206

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB13A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB13B-1
Water Depth (m)	--

Grain Size Data

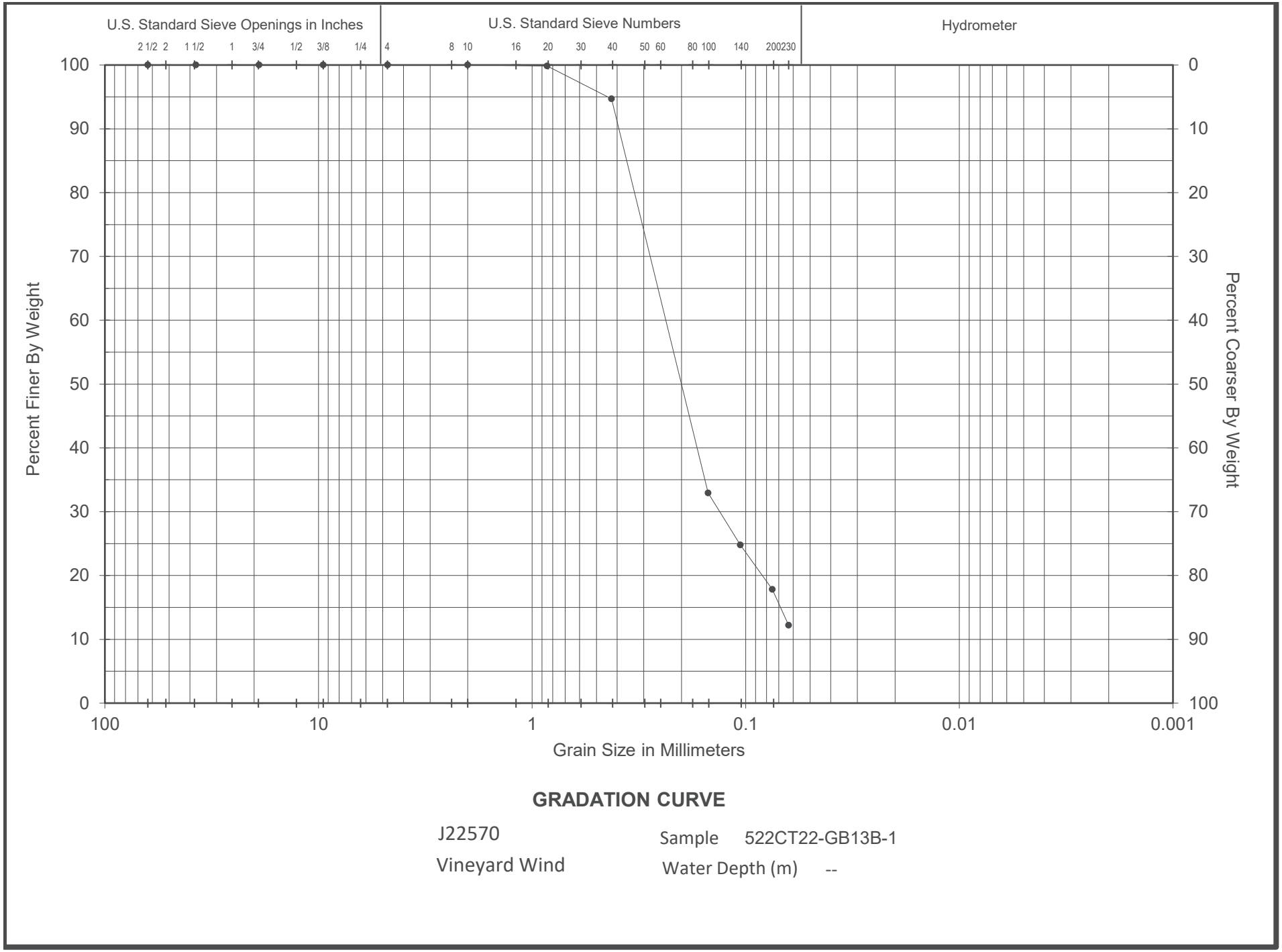
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.83	0.17	
0.425	40	94.70	5.30	
0.15	100	32.93	67.07	
0.106	140	24.77	75.23	
0.075	200	17.83	82.17	
0.063	230	12.21	87.79	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	12.21
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	87.79
% Silt and Clay	< 0.0625 mm	12.21
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.17
% Medium Sand	0.25 - 0.50 mm	5.13
% Fine Sand	0.0625 - 0.25 mm	82.49

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.21	0.063	#N/A	#N/A	#N/A
D30	30	32.93	0.150	24.77	0.106	0.132
D50	50	94.70	0.425	32.93	0.150	0.200
D60	60	94.70	0.425	32.93	0.150	0.237

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB13B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB13C-1
Water Depth (m)	--

Grain Size Data

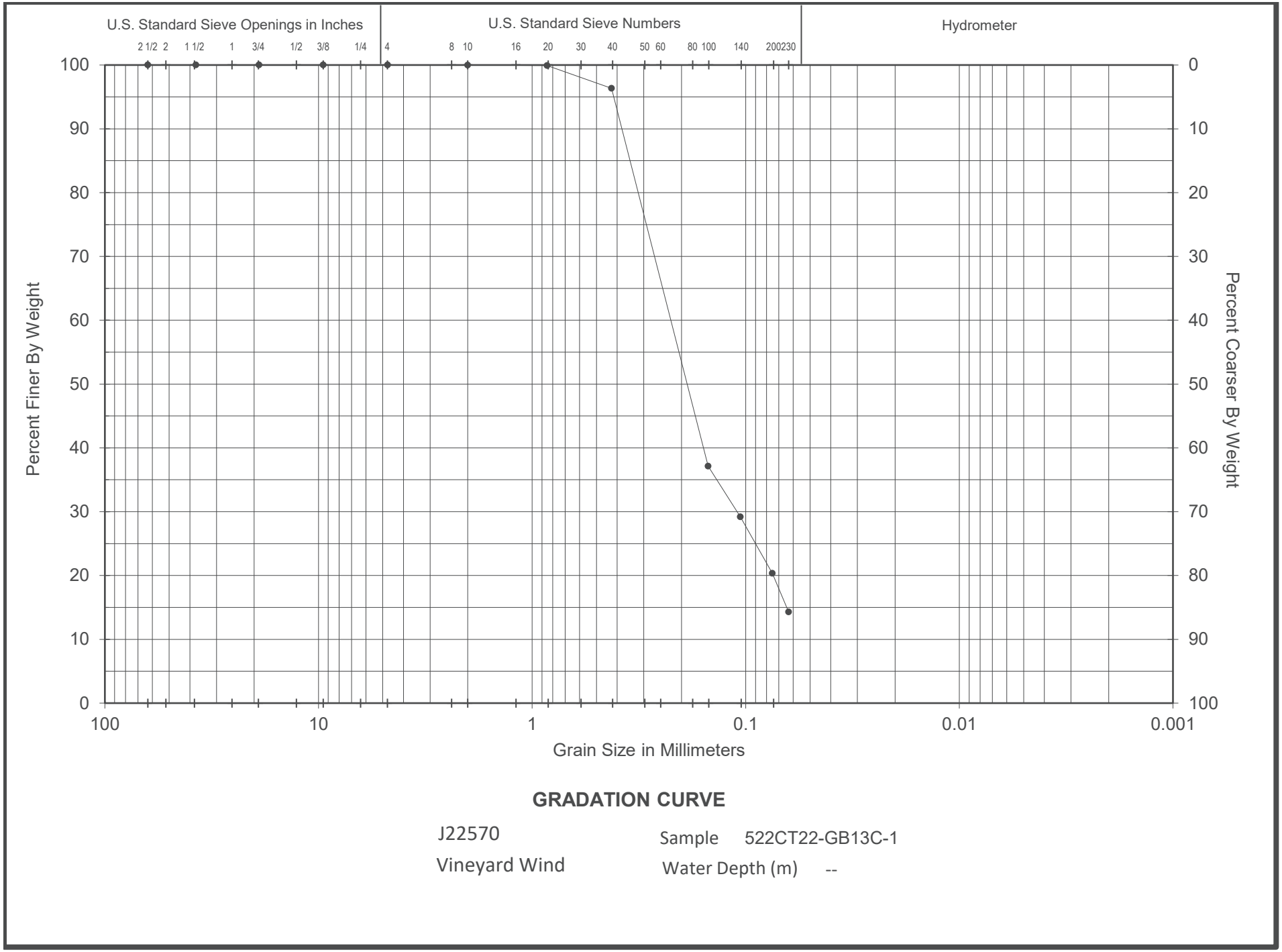
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.90	0.10	
0.425	40	96.36	3.64	
0.15	100	37.12	62.88	
0.106	140	29.19	70.81	
0.075	200	20.35	79.65	
0.063	230	14.30	85.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	14.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.005
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	85.69
% Silt and Clay	< 0.0625 mm	14.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.10
% Medium Sand	0.25 - 0.50 mm	3.54
% Fine Sand	0.0625 - 0.25 mm	82.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.30	0.063	#N/A	#N/A	#N/A
D30	30	37.12	0.150	29.19	0.106	0.110
D50	50	96.36	0.425	37.12	0.150	0.188
D60	60	96.36	0.425	37.12	0.150	0.224

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB13C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB14-1
Water Depth (m)	--

Grain Size Data

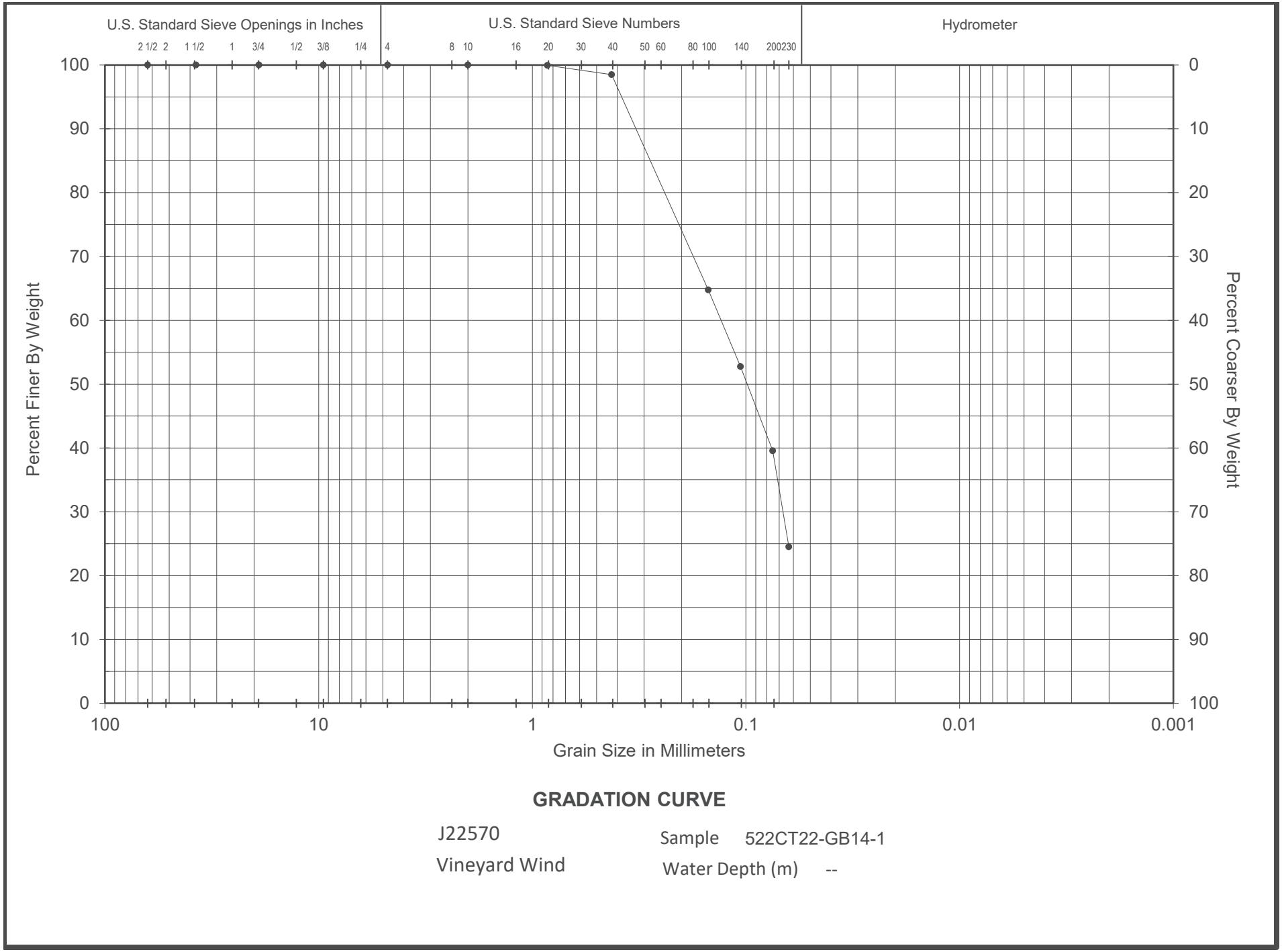
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.95	0.05	
0.425	40	98.49	1.51	
0.15	100	64.78	35.22	
0.106	140	52.76	47.24	
0.075	200	39.54	60.46	
0.063	230	24.51	75.49	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	24.51
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	75.49
% Silt and Clay	< 0.0625 mm	24.51
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.05
% Medium Sand	0.25 - 0.50 mm	1.46
% Fine Sand	0.0625 - 0.25 mm	73.98

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.51	0.063	#N/A	#N/A	#N/A
D30	30	39.54	0.075	24.51	0.063	0.067
D50	50	52.76	0.106	39.54	0.075	0.099
D60	60	64.78	0.150	52.76	0.106	0.131

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB14-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB15A-1
Water Depth (m)	--

Grain Size Data

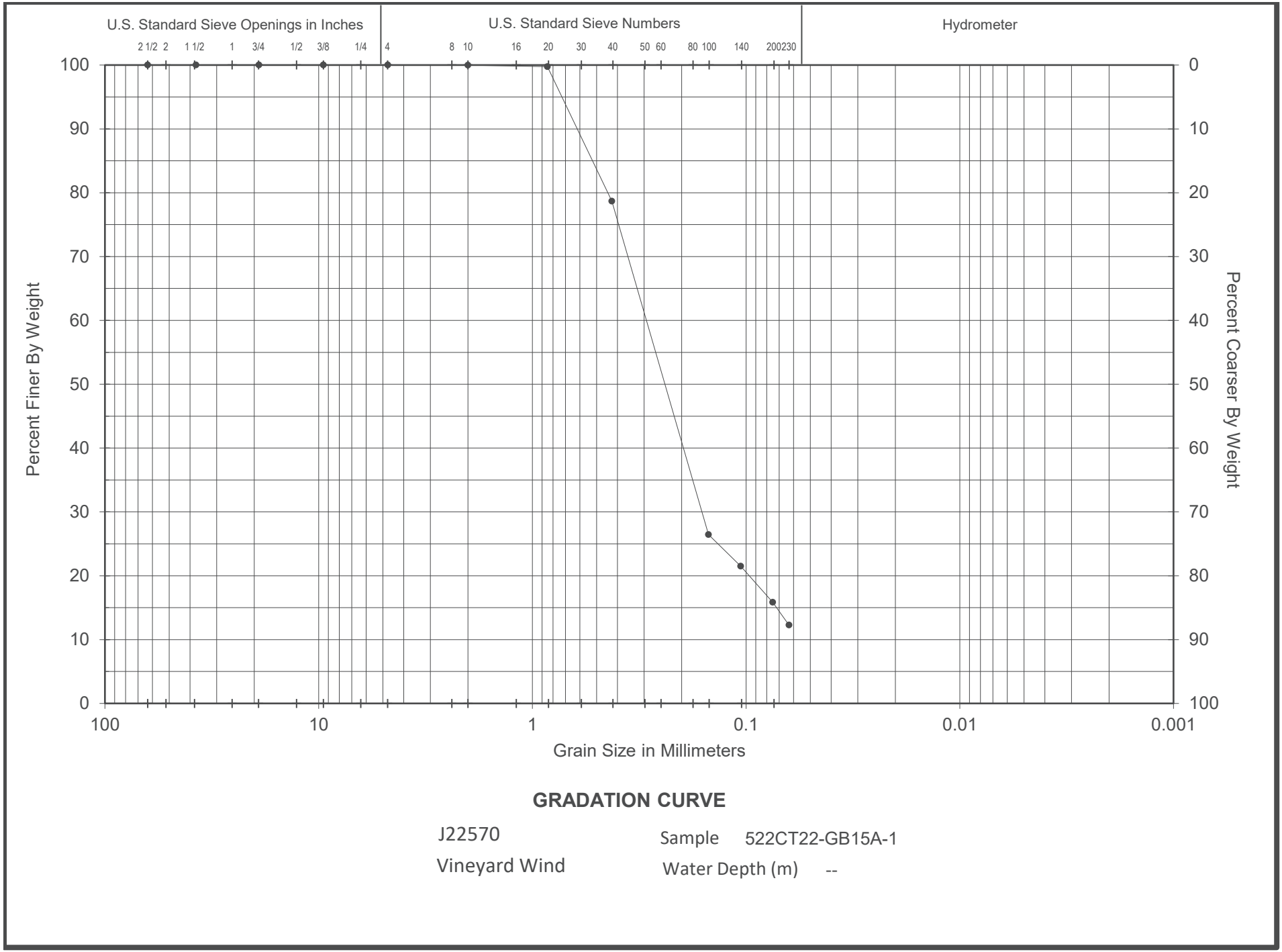
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	0.00
0.85	20	99.76	0.24	
0.425	40	78.67	21.33	
0.15	100	26.46	73.54	
0.106	140	21.49	78.51	
0.075	200	15.84	84.16	
0.063	230	12.27	87.73	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10 99.99
% Passing #230 12.27
% Pass 2µ #VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	87.71
% Silt and Clay	< 0.0625 mm	12.27
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.24
% Medium Sand	0.25 - 0.50 mm	21.09
% Fine Sand	0.0625 - 0.25 mm	66.39

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	12.27	0.063	#N/A	#N/A	#N/A
D30	30	78.67	0.425	26.46	0.150	0.161
D50	50	78.67	0.425	26.46	0.150	0.240
D60	60	78.67	0.425	26.46	0.150	0.293

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB15A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB15B-1
Water Depth (m)	--

Grain Size Data

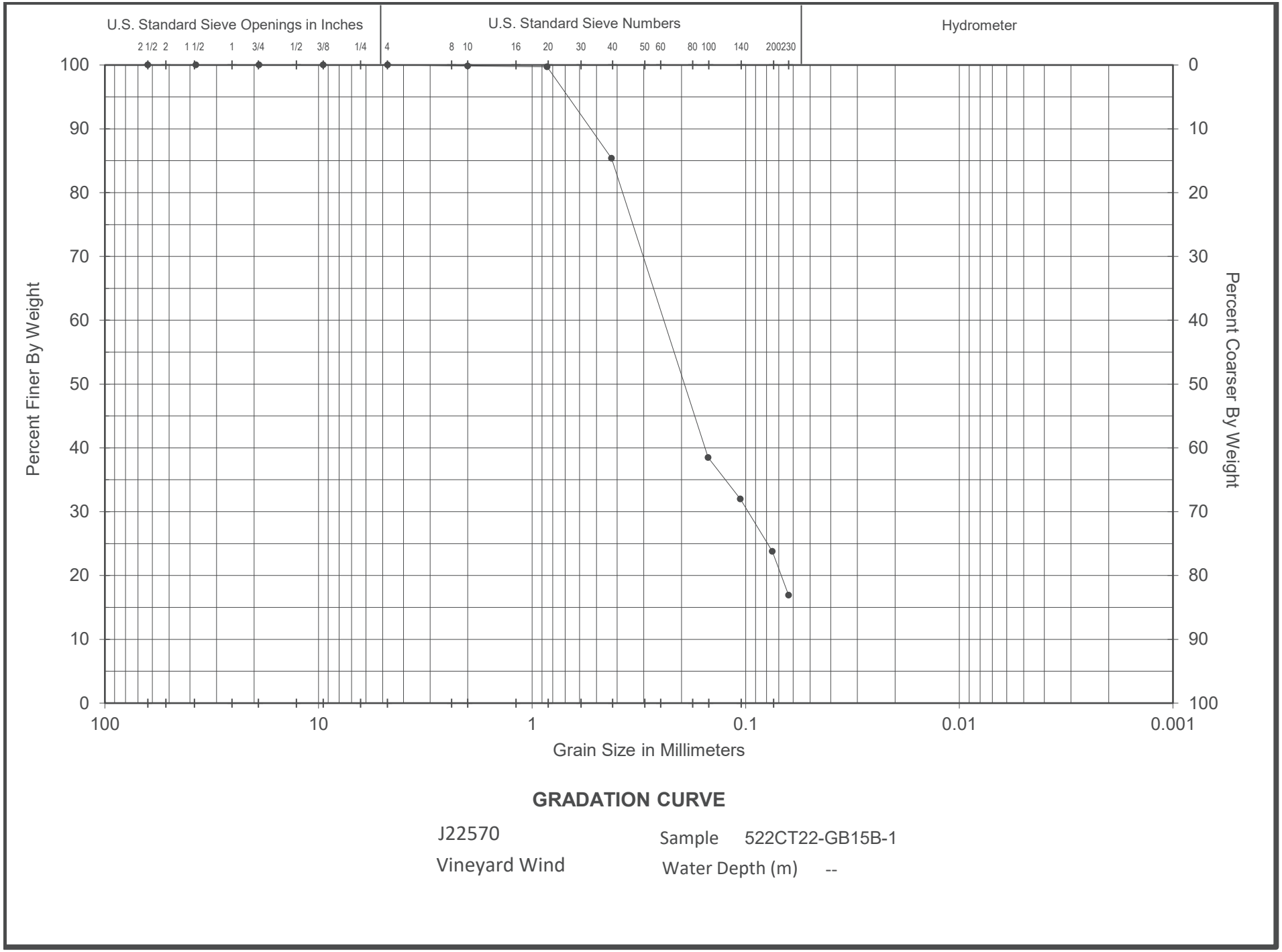
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.86	0.14	0.00
0.85	20	99.73	0.27	
0.425	40	85.37	14.63	
0.15	100	38.49	61.51	
0.106	140	31.98	68.02	
0.075	200	23.77	76.23	
0.063	230	16.91	83.09	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.86
% Passing #230	16.91
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.14
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	82.95
% Silt and Clay	< 0.0625 mm	16.91
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.27
% Medium Sand	0.25 - 0.50 mm	14.36
% Fine Sand	0.0625 - 0.25 mm	68.46

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.91	0.063	#N/A	#N/A	#N/A
D30	30	31.98	0.106	23.77	0.075	0.098
D50	50	85.37	0.425	38.49	0.150	0.194
D60	60	85.37	0.425	38.49	0.150	0.242

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB15B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB15C-1
Water Depth (m)	--

Grain Size Data

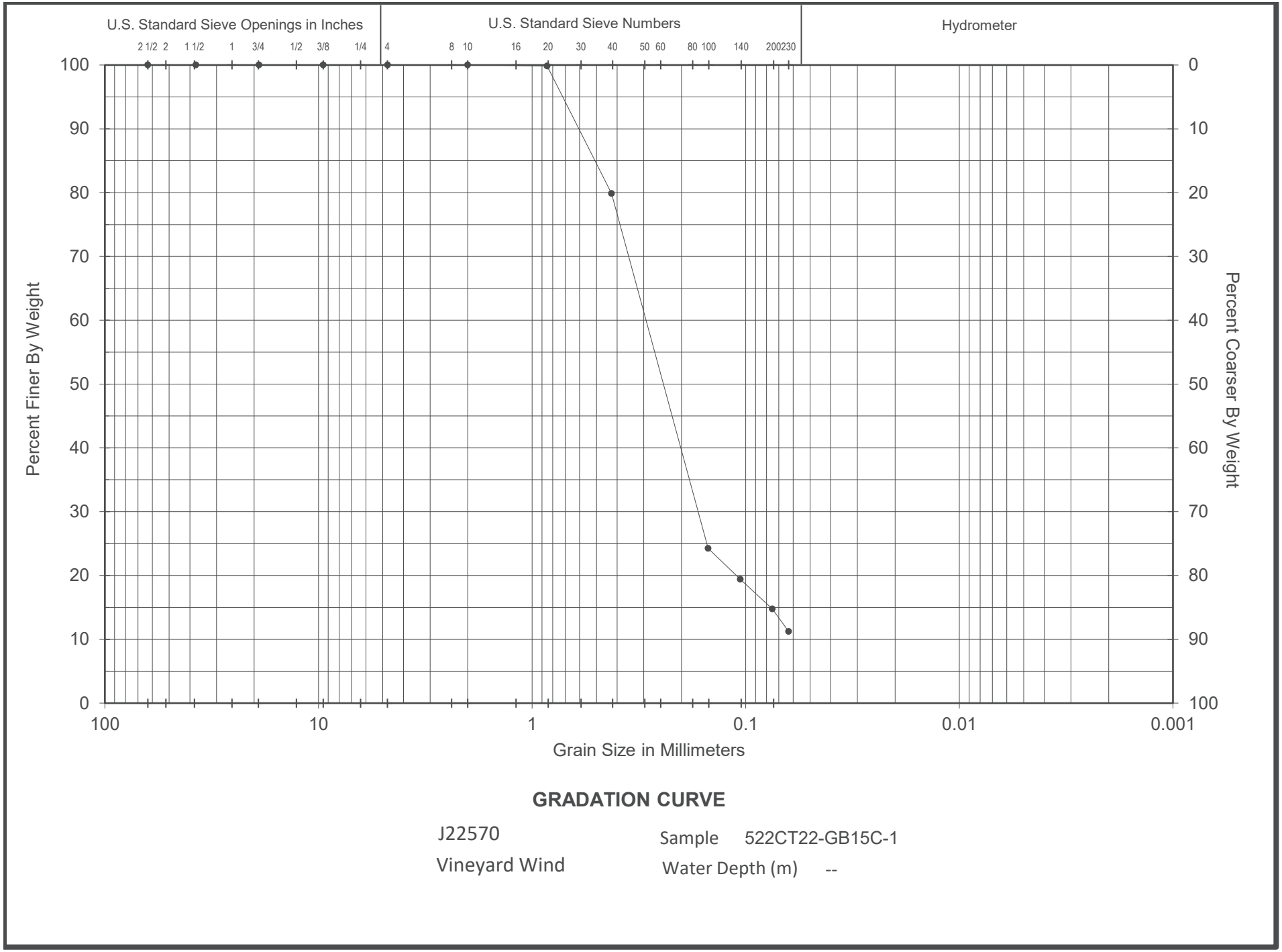
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.86	0.14	
0.425	40	79.85	20.15	
0.15	100	24.26	75.74	
0.106	140	19.39	80.61	
0.075	200	14.78	85.22	
0.063	230	11.24	88.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	11.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	88.76
% Silt and Clay	< 0.0625 mm	11.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.14
% Medium Sand	0.25 - 0.50 mm	20.00
% Fine Sand	0.0625 - 0.25 mm	68.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.24	0.063	#N/A	#N/A	#N/A
D30	30	79.85	0.425	24.26	0.150	0.167
D50	50	79.85	0.425	24.26	0.150	0.243
D60	60	79.85	0.425	24.26	0.150	0.293

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB15C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB16-1
Water Depth (m)	--

Grain Size Data

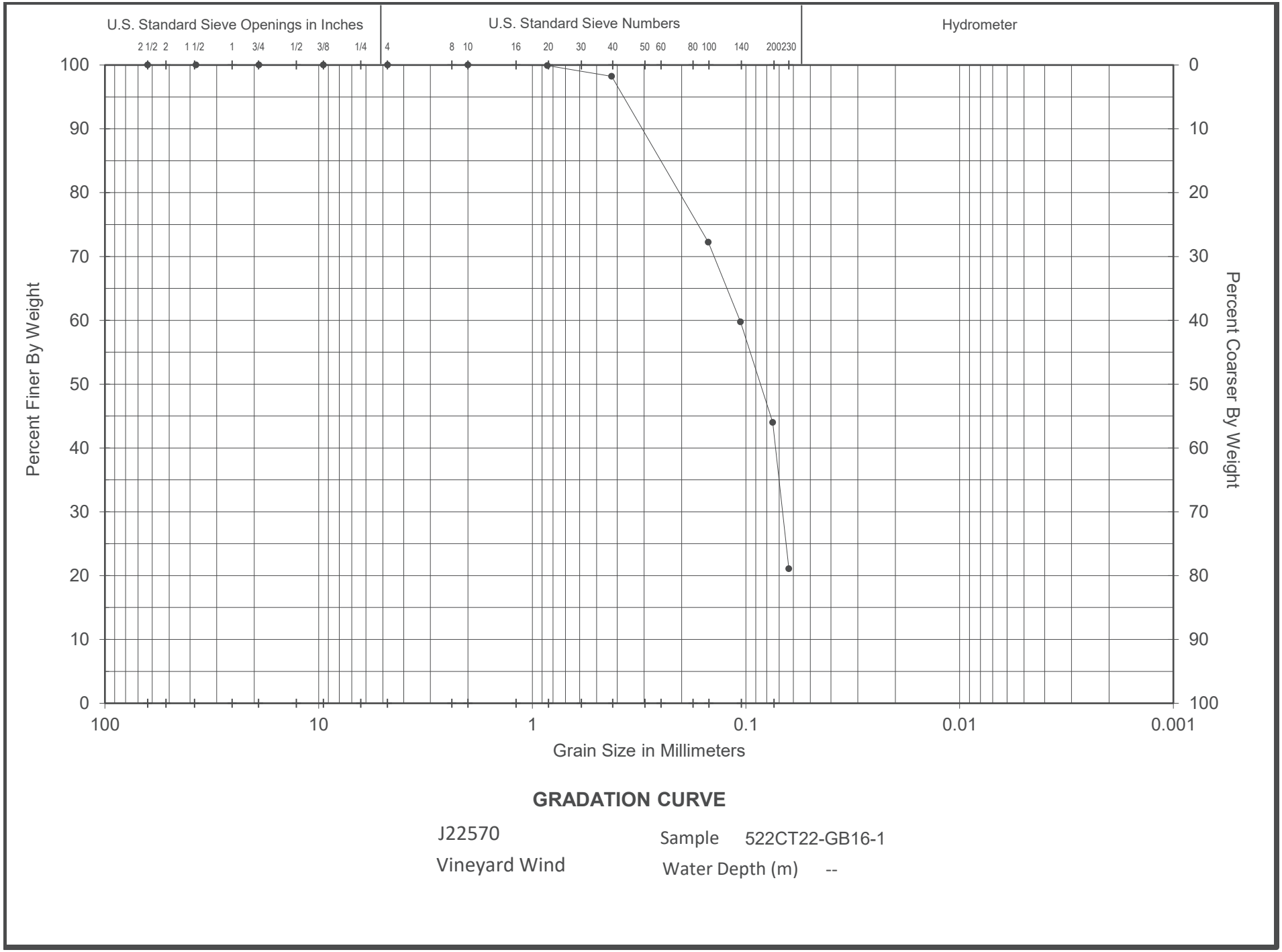
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.91	0.09	
0.425	40	98.22	1.78	
0.15	100	72.25	27.75	
0.106	140	59.75	40.25	
0.075	200	44.01	55.99	
0.063	230	21.08	78.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	21.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	78.92
% Silt and Clay	< 0.0625 mm	21.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.09
% Medium Sand	0.25 - 0.50 mm	1.70
% Fine Sand	0.0625 - 0.25 mm	77.14

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.08	0.063	#N/A	#N/A	#N/A
D30	30	44.01	0.075	21.08	0.063	0.067
D50	50	59.75	0.106	44.01	0.075	0.086
D60	60	72.25	0.150	59.75	0.106	0.107

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB16-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB17A-1
Water Depth (m)	--

Grain Size Data

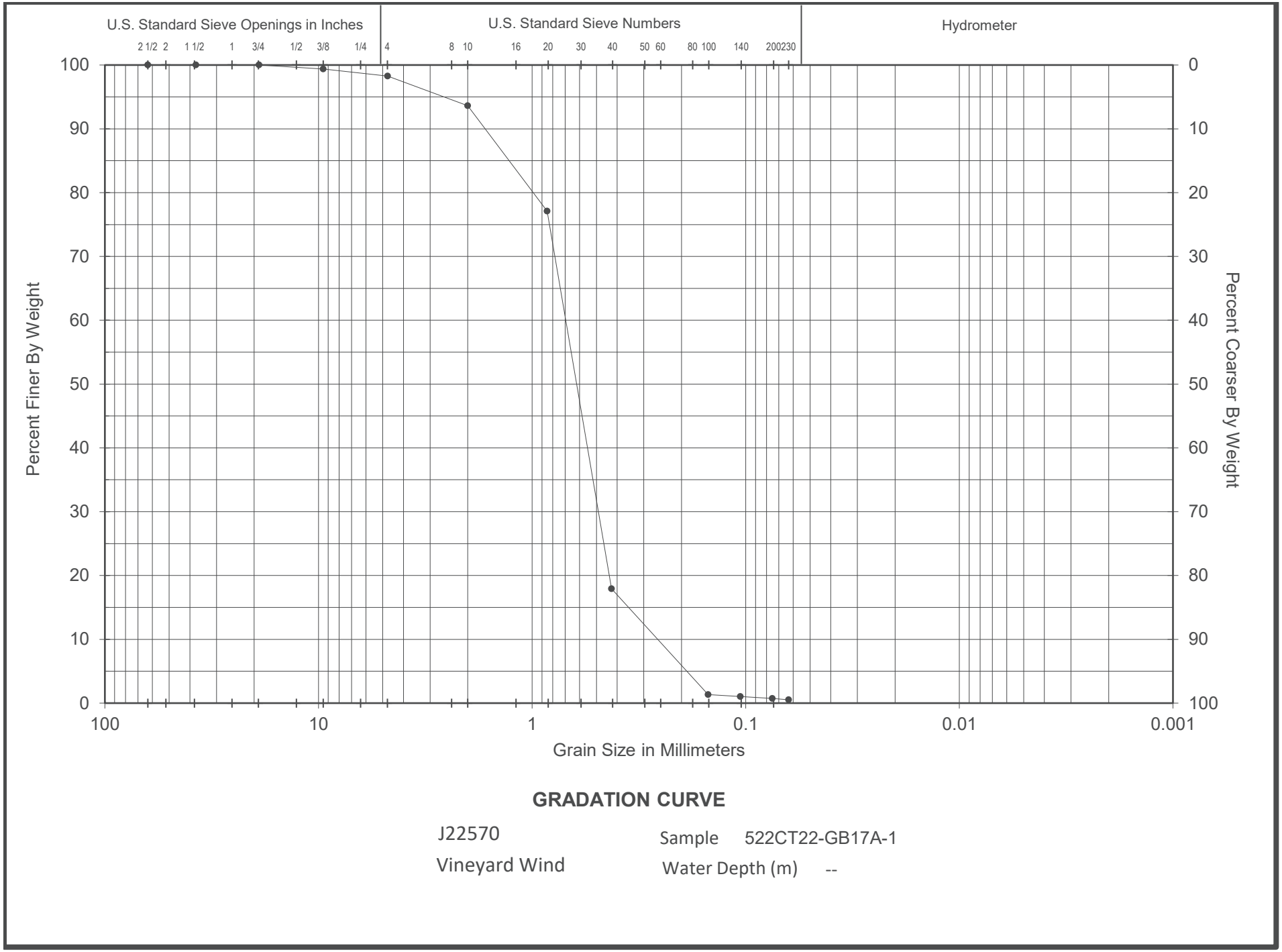
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.38	0.62	
4.75	4	98.26	1.74	
2	10	93.61	6.39	0.00
0.85	20	77.11	22.89	
0.425	40	17.92	82.08	
0.15	100	1.33	98.67	
0.106	140	1.04	98.96	
0.075	200	0.72	99.28	
0.063	230	0.52	99.48	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.61
% Passing #230	0.52
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	6.39
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	93.09
% Silt and Clay	< 0.0625 mm	0.52
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	21.15
% Medium Sand	0.25 - 0.50 mm	59.19
% Fine Sand	0.0625 - 0.25 mm	17.39

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.92	0.425	1.33	0.150	0.259
D30	30	77.11	0.850	17.92	0.425	0.490
D50	50	77.11	0.850	17.92	0.425	0.619
D60	60	77.11	0.850	17.92	0.425	0.696

Uniformity Coefficient (Cu)	2.691
Coefficient of Curvature (Cc)	1.333



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB17A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB17B-1
Water Depth (m)	--

Grain Size Data

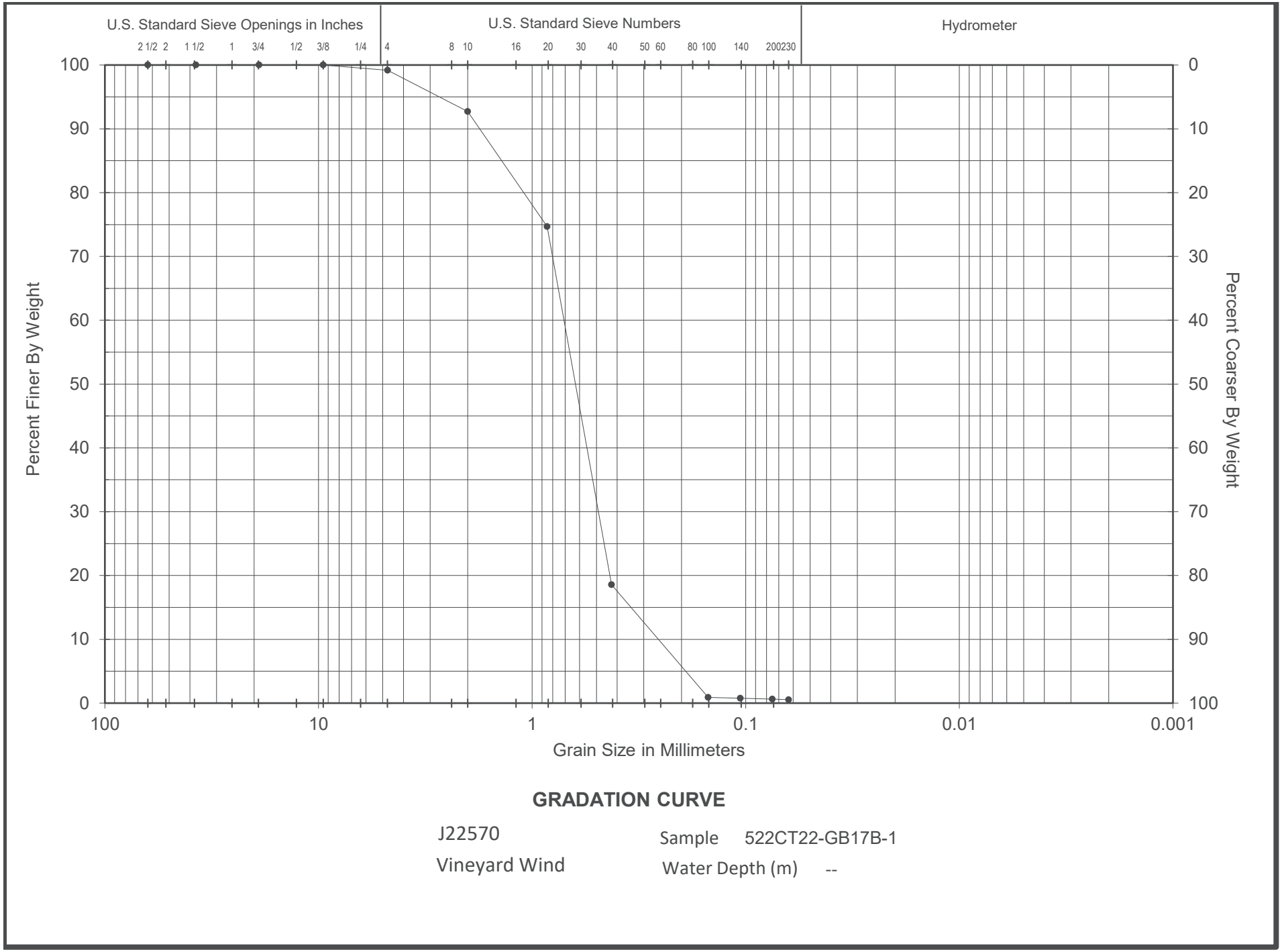
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.19	0.81	
2	10	92.72	7.28	0.00
0.85	20	74.67	25.33	
0.425	40	18.55	81.45	
0.15	100	0.91	99.09	
0.106	140	0.78	99.22	
0.075	200	0.65	99.35	
0.063	230	0.54	99.46	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	92.72
% Passing #230	0.54
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	7.28
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	92.18
% Silt and Clay	< 0.0625 mm	0.54
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.51
% Medium Sand	0.25 - 0.50 mm	56.12
% Fine Sand	0.0625 - 0.25 mm	18.01

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.55	0.425	0.91	0.150	0.256
D30	30	74.67	0.850	18.55	0.425	0.490
D50	50	74.67	0.850	18.55	0.425	0.627
D60	60	74.67	0.850	18.55	0.425	0.709

Uniformity Coefficient (Cu)	2.765
Coefficient of Curvature (Cc)	1.318



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB17B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB17C-1
Water Depth (m)	--

Grain Size Data

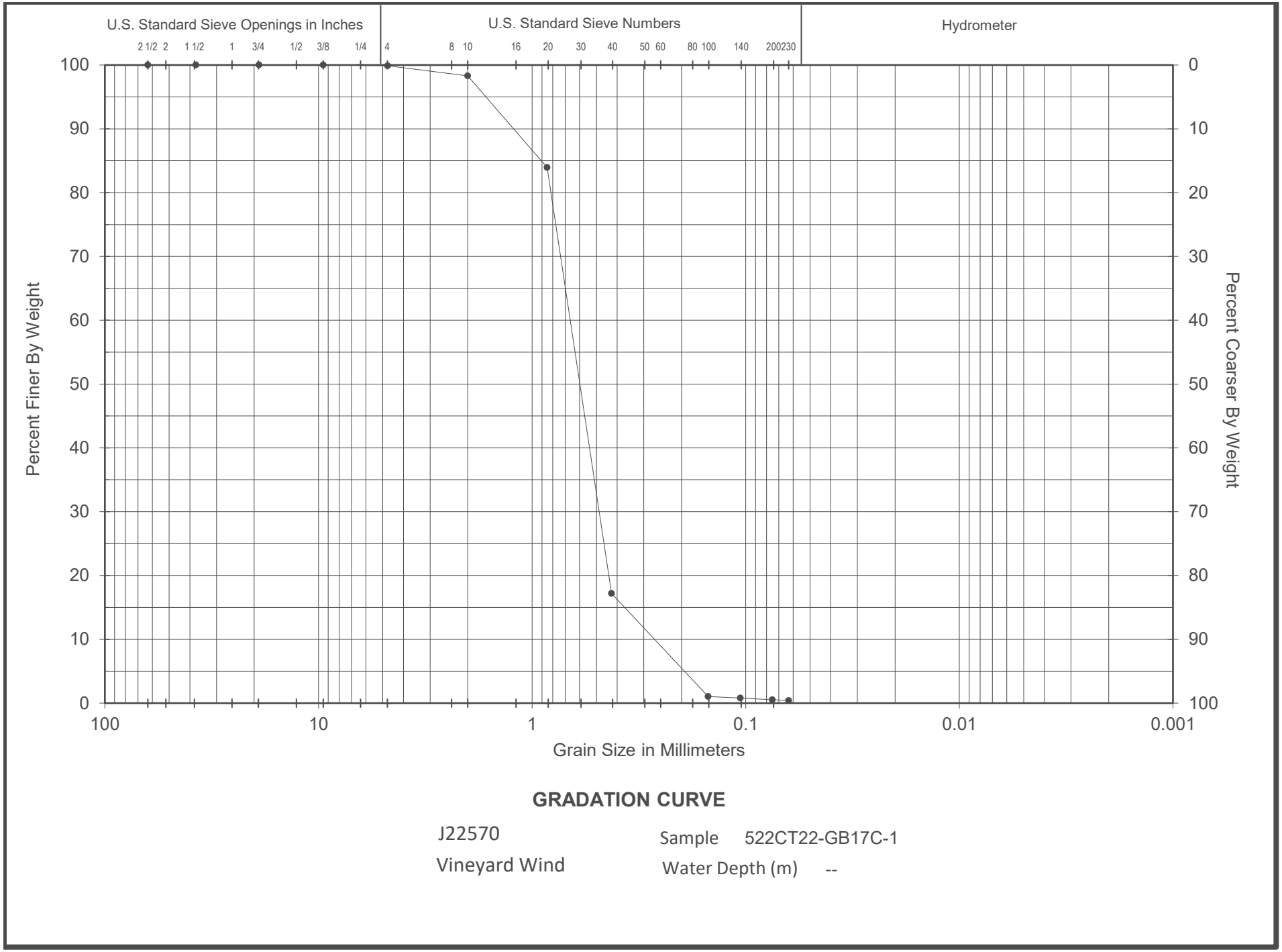
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.90	0.10	
2	10	98.31	1.69	0.00
0.85	20	83.93	16.07	
0.425	40	17.18	82.82	
0.15	100	1.02	98.98	
0.106	140	0.78	99.22	
0.075	200	0.54	99.46	
0.063	230	0.40	99.60	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.31
% Passing #230	0.40
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.69
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.90
% Silt and Clay	< 0.0625 mm	0.40
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	15.97
% Medium Sand	0.25 - 0.50 mm	66.74
% Fine Sand	0.0625 - 0.25 mm	16.78

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	17.18	0.425	1.02	0.150	0.267
D30	30	83.93	0.850	17.18	0.425	0.486
D50	50	83.93	0.850	17.18	0.425	0.598
D60	60	83.93	0.850	17.18	0.425	0.663

Uniformity Coefficient (Cu)	2.478
Coefficient of Curvature (Cc)	1.329



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB17C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB18-1
Water Depth (m)	--

Grain Size Data

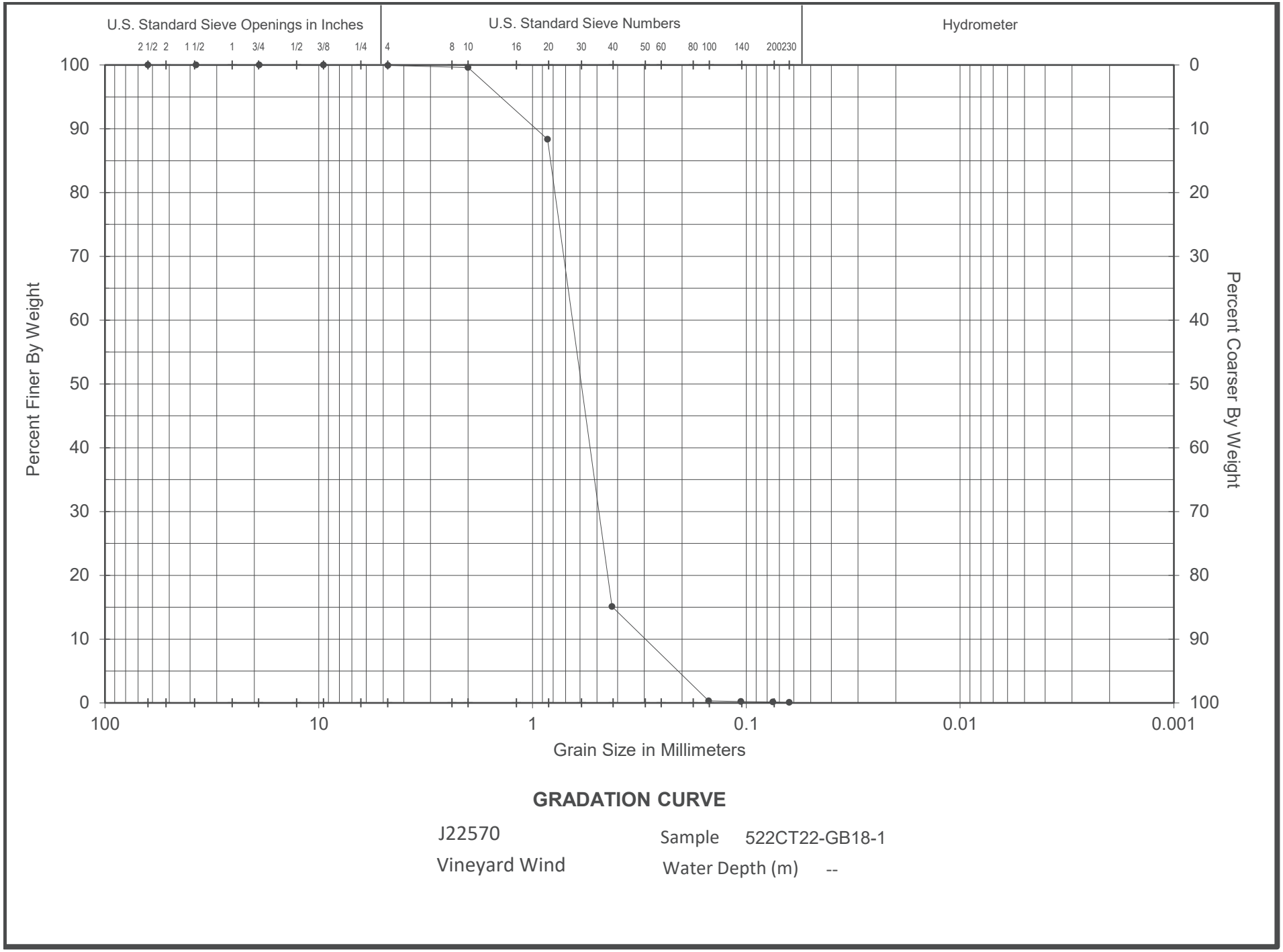
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.95	0.05	
2	10	99.59	0.41	16.38
0.85	20	88.36	11.64	
0.425	40	15.10	84.90	
0.15	100	0.32	99.68	
0.106	140	0.23	99.77	
0.075	200	0.14	99.86	
0.063	230	0.08	99.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.59
% Passing #230	0.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.34
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	99.51
% Silt and Clay	< 0.0625 mm	0.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	11.59
% Medium Sand	0.25 - 0.50 mm	73.26
% Fine Sand	0.0625 - 0.25 mm	15.02

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.10	0.425	0.32	0.150	0.297
D30	30	88.36	0.850	15.10	0.425	0.489
D50	50	88.36	0.850	15.10	0.425	0.591
D60	60	88.36	0.850	15.10	0.425	0.650

Uniformity Coefficient (Cu)	2.191
Coefficient of Curvature (Cc)	1.242



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB18-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB19A-1
Water Depth (m)	--

Grain Size Data

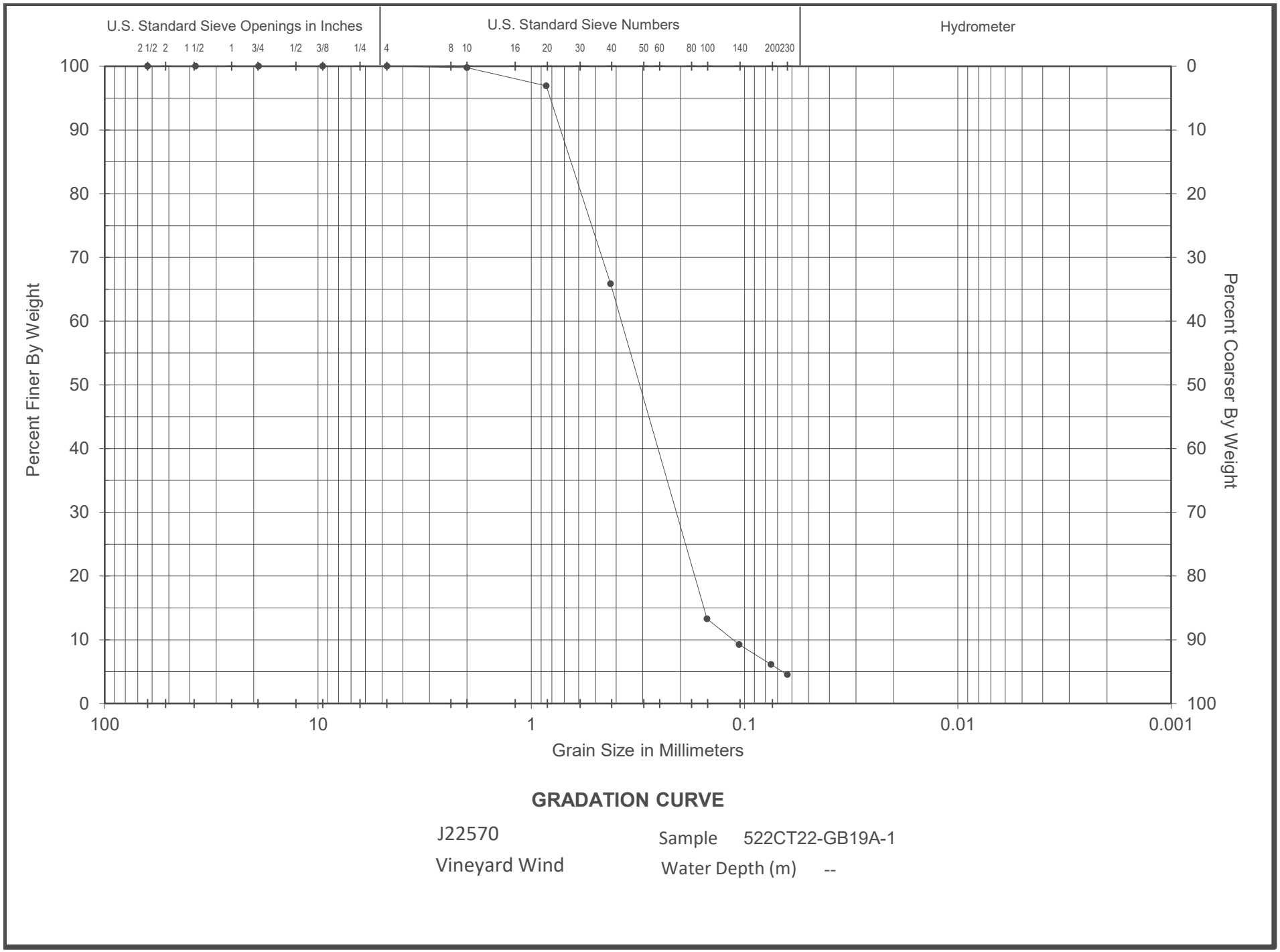
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.77	0.23	0.00
0.85	20	96.91	3.09	
0.425	40	65.87	34.13	
0.15	100	13.28	86.72	
0.106	140	9.24	90.76	
0.075	200	6.10	93.90	
0.063	230	4.52	95.48	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.77
% Passing #230	4.52
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.23
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	95.25
% Silt and Clay	< 0.0625 mm	4.52
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.09
% Medium Sand	0.25 - 0.50 mm	31.04
% Fine Sand	0.0625 - 0.25 mm	61.36

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.28	0.150	9.24	0.106	0.113
D30	30	65.87	0.425	13.28	0.150	0.209
D50	50	65.87	0.425	13.28	0.150	0.310
D60	60	65.87	0.425	13.28	0.150	0.378

Uniformity Coefficient (Cu)	3.343
Coefficient of Curvature (Cc)	1.019



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB19A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB19B-1
Water Depth (m)	--

Grain Size Data

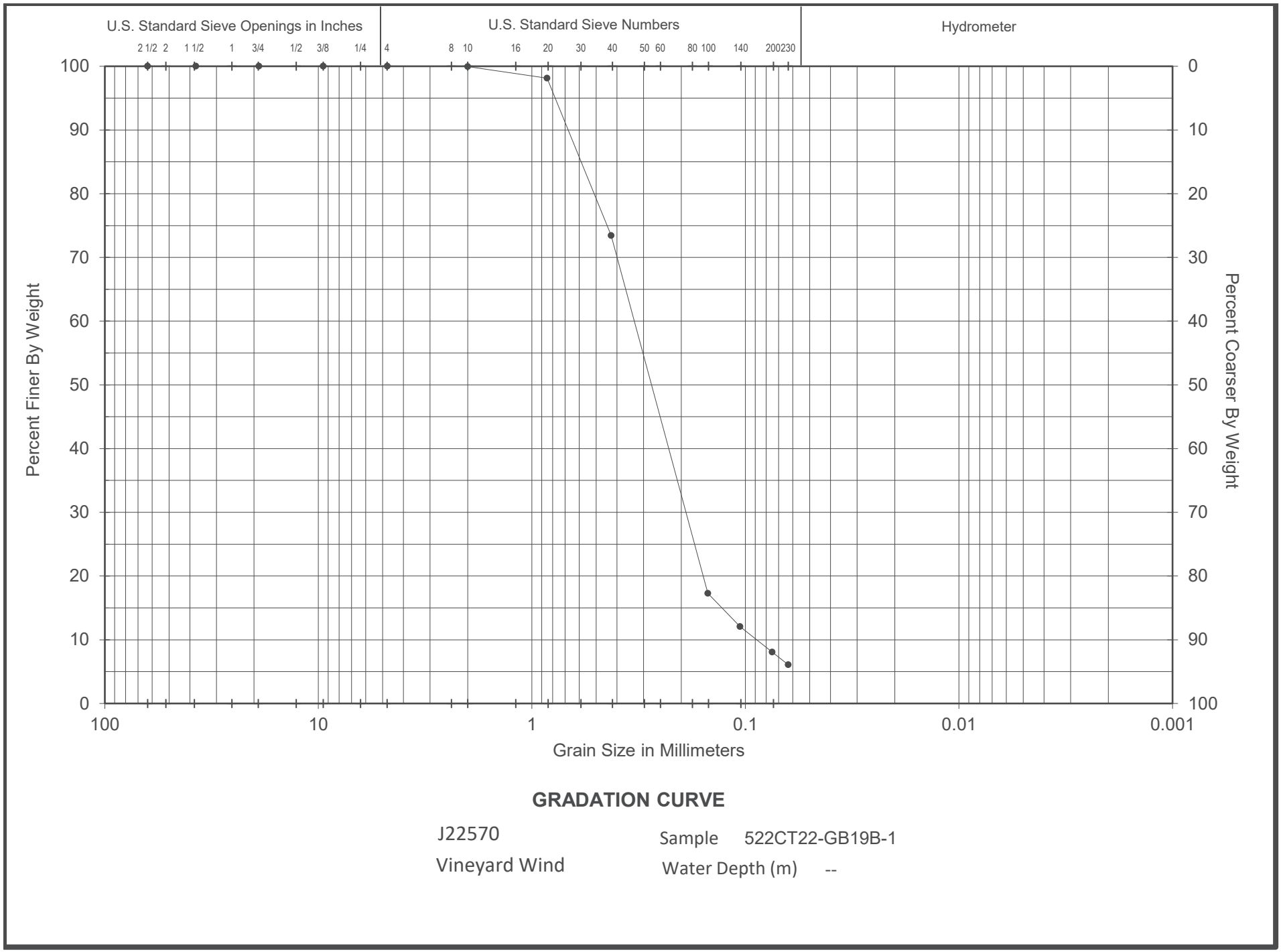
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.94	0.06	0.00
0.85	20	98.12	1.88	
0.425	40	73.45	26.55	
0.15	100	17.29	82.71	
0.106	140	12.05	87.95	
0.075	200	8.07	91.93	
0.063	230	6.08	93.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	6.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	93.87
% Silt and Clay	< 0.0625 mm	6.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.88
% Medium Sand	0.25 - 0.50 mm	24.67
% Fine Sand	0.0625 - 0.25 mm	67.37

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.05	0.106	8.07	0.075	0.089
D30	30	73.45	0.425	17.29	0.150	0.190
D50	50	73.45	0.425	17.29	0.150	0.275
D60	60	73.45	0.425	17.29	0.150	0.331

Uniformity Coefficient (Cu)	3.734
Coefficient of Curvature (Cc)	1.227



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB19B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB19C-1
Water Depth (m)	--

Grain Size Data

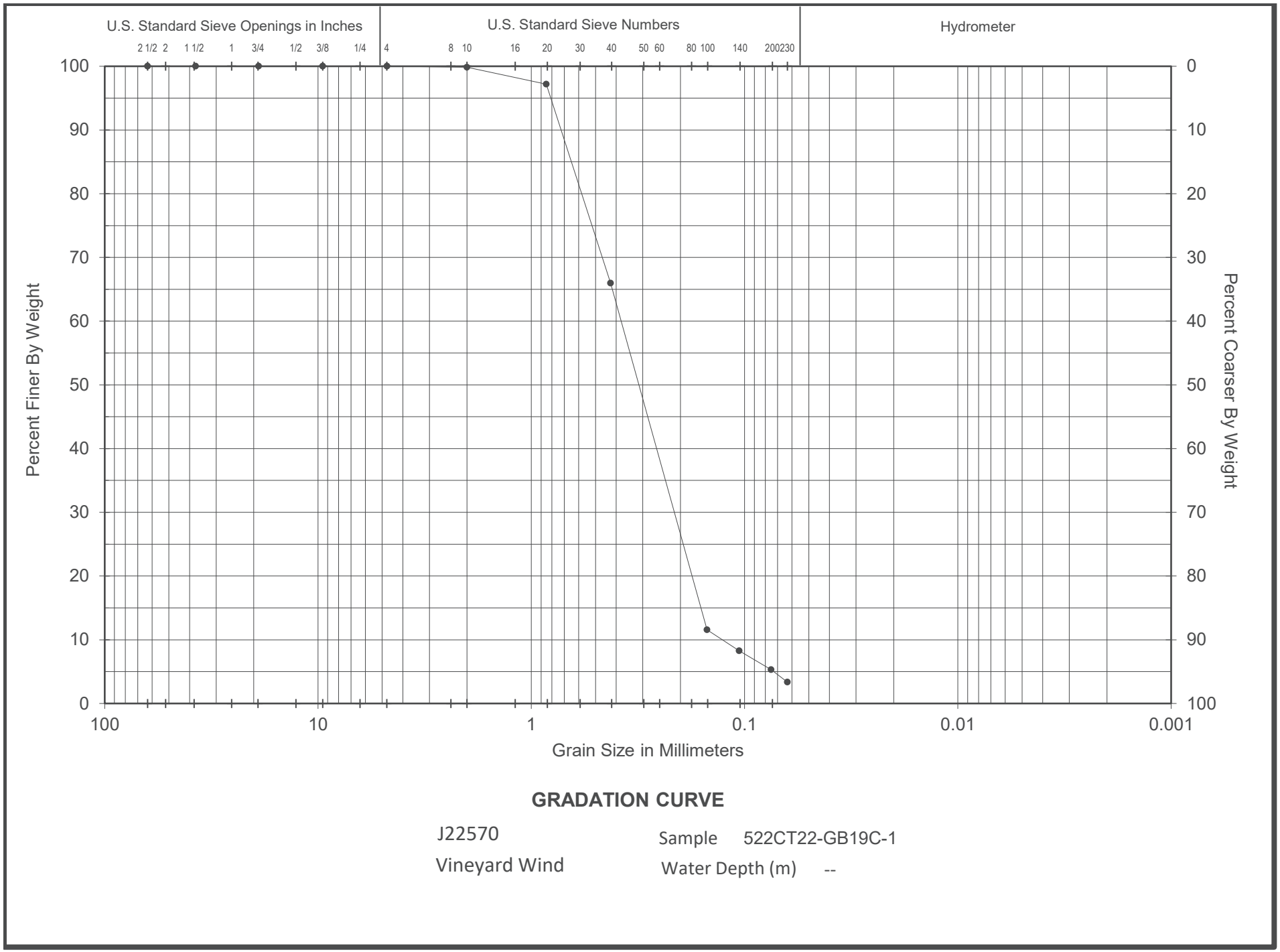
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.84	0.16	0.00
0.85	20	97.20	2.80	
0.425	40	65.97	34.03	
0.15	100	11.57	88.43	
0.106	140	8.25	91.75	
0.075	200	5.30	94.70	
0.063	230	3.36	96.64	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.84
% Passing #230	3.36
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.16
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	96.48
% Silt and Clay	< 0.0625 mm	3.36
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.80
% Medium Sand	0.25 - 0.50 mm	31.23
% Fine Sand	0.0625 - 0.25 mm	62.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.57	0.150	8.25	0.106	0.127
D30	30	65.97	0.425	11.57	0.150	0.213
D50	50	65.97	0.425	11.57	0.150	0.313
D60	60	65.97	0.425	11.57	0.150	0.379

Uniformity Coefficient (Cu)	2.979
Coefficient of Curvature (Cc)	0.944



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB19C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB20-1
Water Depth (m)	--

Grain Size Data

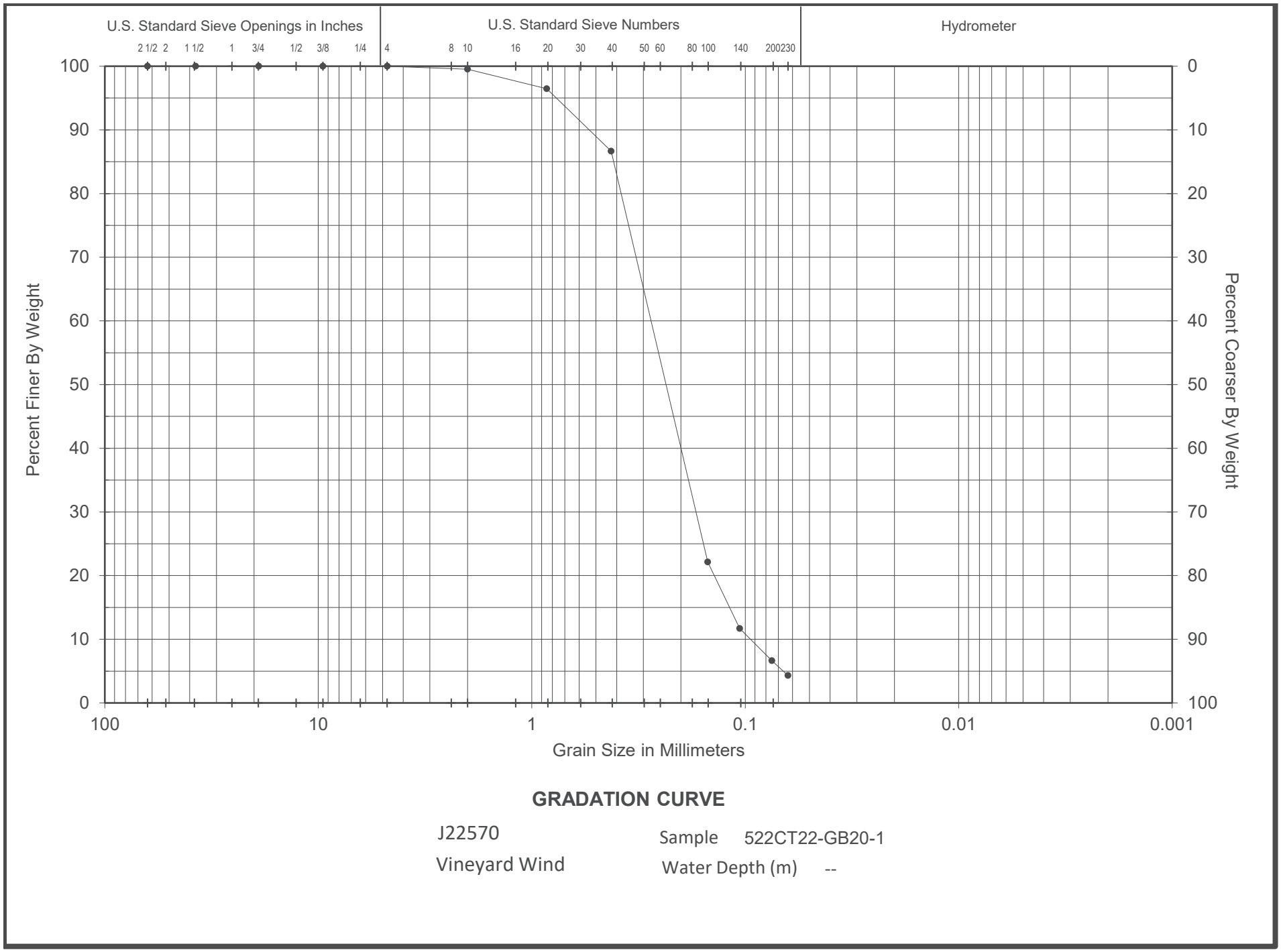
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.53	0.47	8.79
0.85	20	96.47	3.53	
0.425	40	86.66	13.34	
0.15	100	22.14	77.86	
0.106	140	11.69	88.31	
0.075	200	6.64	93.36	
0.063	230	4.30	95.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.53
% Passing #230	4.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.43
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	95.23
% Silt and Clay	< 0.0625 mm	4.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.53
% Medium Sand	0.25 - 0.50 mm	9.81
% Fine Sand	0.0625 - 0.25 mm	82.36

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.69	0.106	6.64	0.075	0.094
D30	30	86.66	0.425	22.14	0.150	0.170
D50	50	86.66	0.425	22.14	0.150	0.235
D60	60	86.66	0.425	22.14	0.150	0.276

Uniformity Coefficient (Cu)	2.927
Coefficient of Curvature (Cc)	1.111



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB20-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB21A-1
Water Depth (m)	--

Grain Size Data

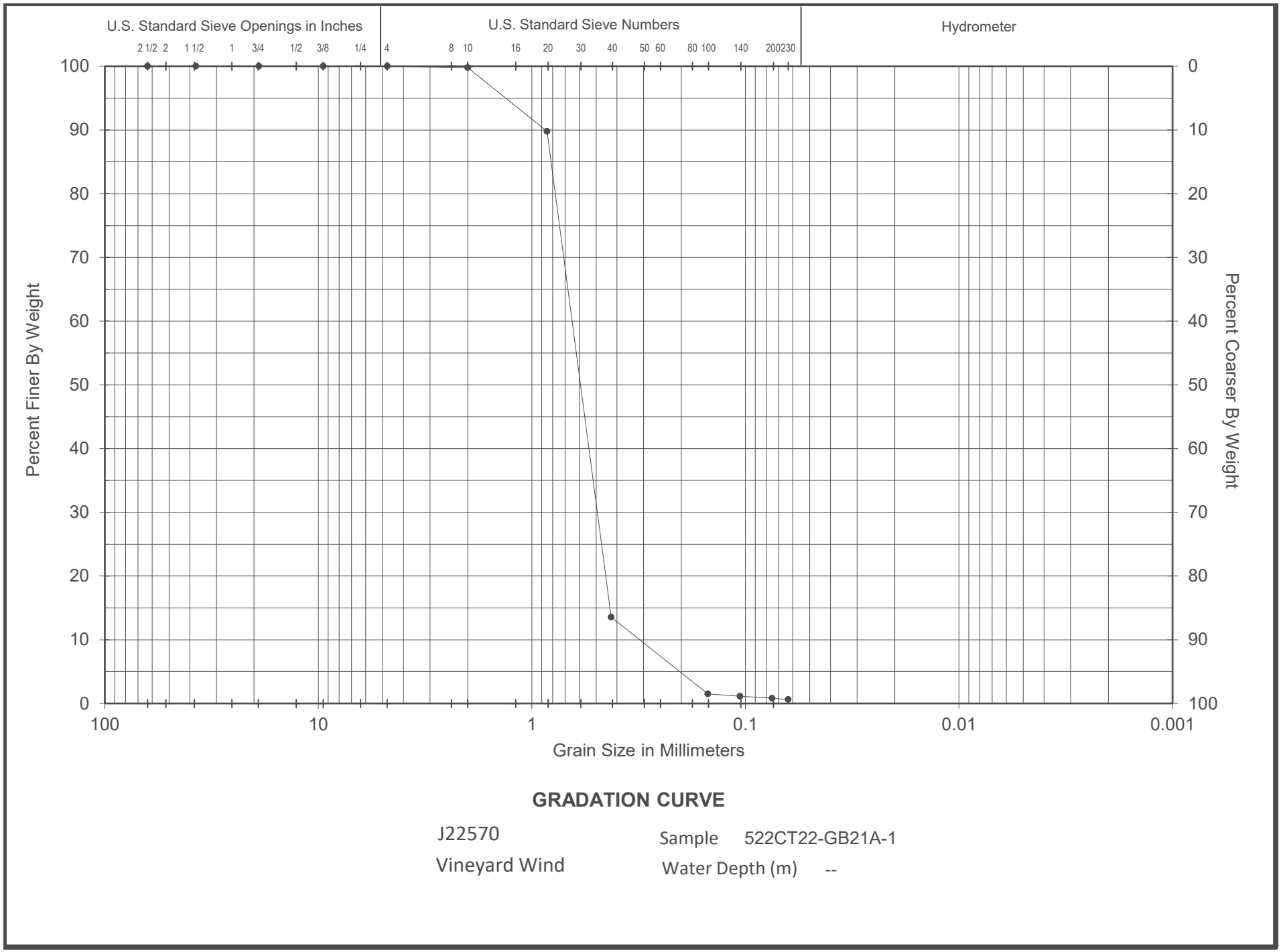
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.78	0.22	0.00
0.85	20	89.80	10.20	
0.425	40	13.56	86.44	
0.15	100	1.50	98.50	
0.106	140	1.15	98.85	
0.075	200	0.83	99.17	
0.063	230	0.63	99.37	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.78
% Passing #230	0.63
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.22
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.15
% Silt and Clay	< 0.0625 mm	0.63
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.20
% Medium Sand	0.25 - 0.50 mm	76.24
% Fine Sand	0.0625 - 0.25 mm	12.94

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.56	0.425	1.50	0.150	0.312
D30	30	89.80	0.850	13.56	0.425	0.494
D50	50	89.80	0.850	13.56	0.425	0.592
D60	60	89.80	0.850	13.56	0.425	0.648

Uniformity Coefficient (Cu)	2.075
Coefficient of Curvature (Cc)	1.202



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB21A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB21B-1
Water Depth (m)	--

Grain Size Data

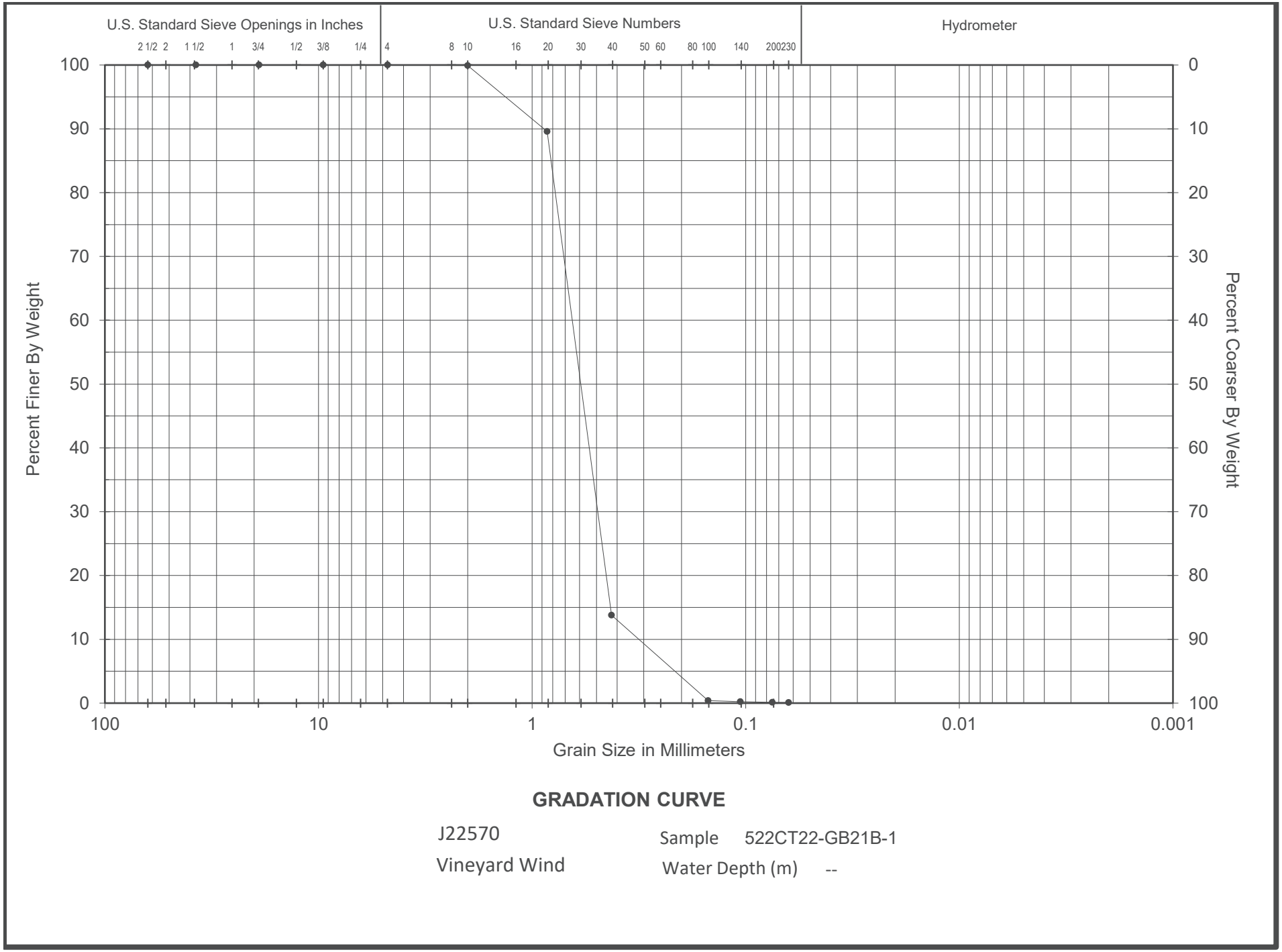
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.93	0.07	0.00
0.85	20	89.59	10.41	
0.425	40	13.78	86.22	
0.15	100	0.40	99.60	
0.106	140	0.23	99.77	
0.075	200	0.14	99.86	
0.063	230	0.10	99.90	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.93
% Passing #230	0.10
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.07
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.83
% Silt and Clay	< 0.0625 mm	0.10
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.41
% Medium Sand	0.25 - 0.50 mm	75.81
% Fine Sand	0.0625 - 0.25 mm	13.68

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.78	0.425	0.40	0.150	0.317
D30	30	89.59	0.850	13.78	0.425	0.493
D50	50	89.59	0.850	13.78	0.425	0.592
D60	60	89.59	0.850	13.78	0.425	0.648

Uniformity Coefficient (Cu)	2.048
Coefficient of Curvature (Cc)	1.183



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB21B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB21C-1
Water Depth (m)	--

Grain Size Data

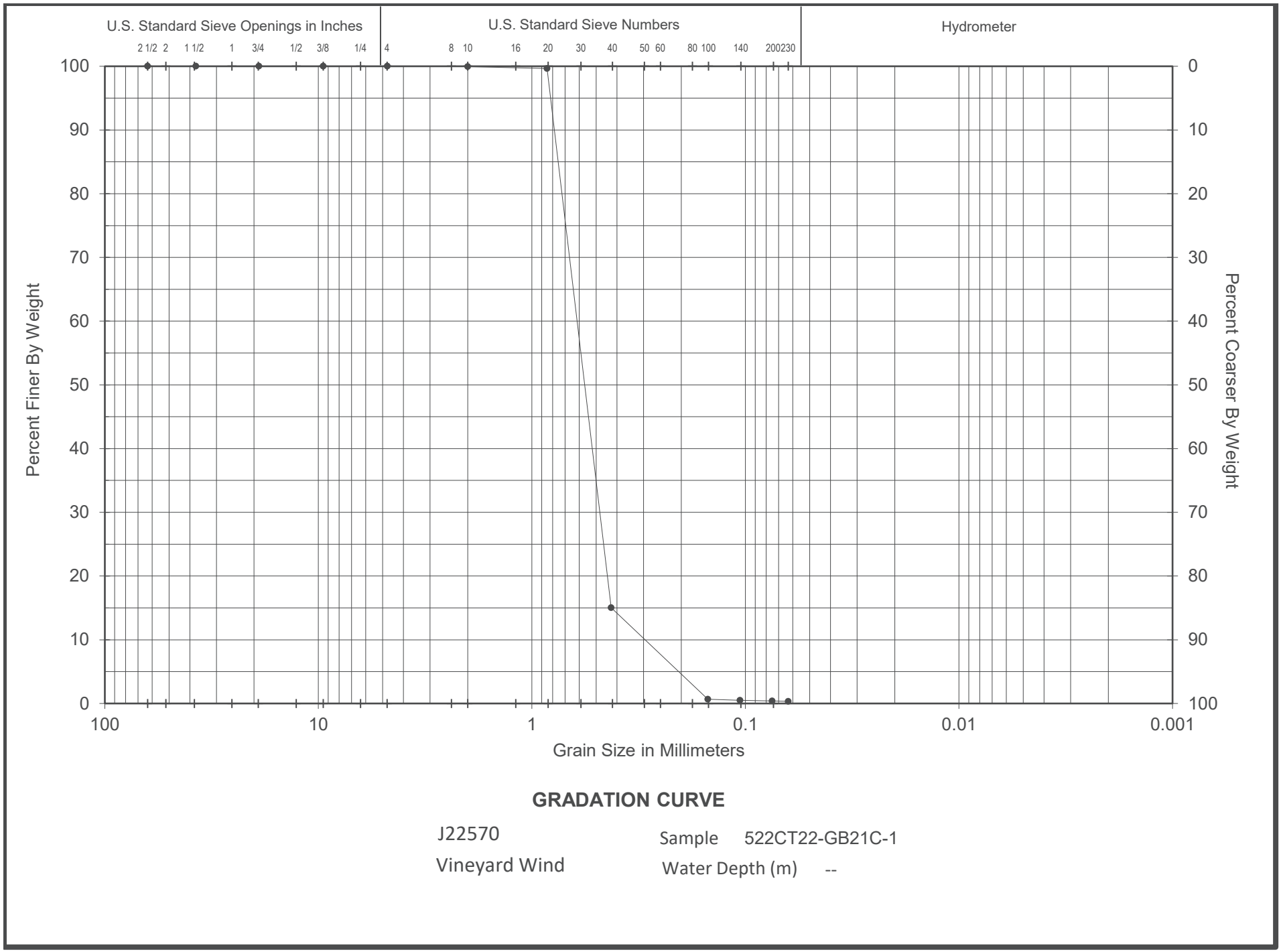
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	0.00
0.85	20	99.65	0.35	
0.425	40	15.03	84.97	
0.15	100	0.65	99.35	
0.106	140	0.48	99.52	
0.075	200	0.38	99.62	
0.063	230	0.34	99.66	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.34
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.62
% Silt and Clay	< 0.0625 mm	0.34
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.35
% Medium Sand	0.25 - 0.50 mm	84.62
% Fine Sand	0.0625 - 0.25 mm	14.69

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.03	0.425	0.65	0.150	0.295
D30	30	99.65	0.850	15.03	0.425	0.480
D50	50	99.65	0.850	15.03	0.425	0.566
D60	60	99.65	0.850	15.03	0.425	0.614

Uniformity Coefficient (Cu)	2.081
Coefficient of Curvature (Cc)	1.273



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB21C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB22-1
Water Depth (m)	--

Grain Size Data

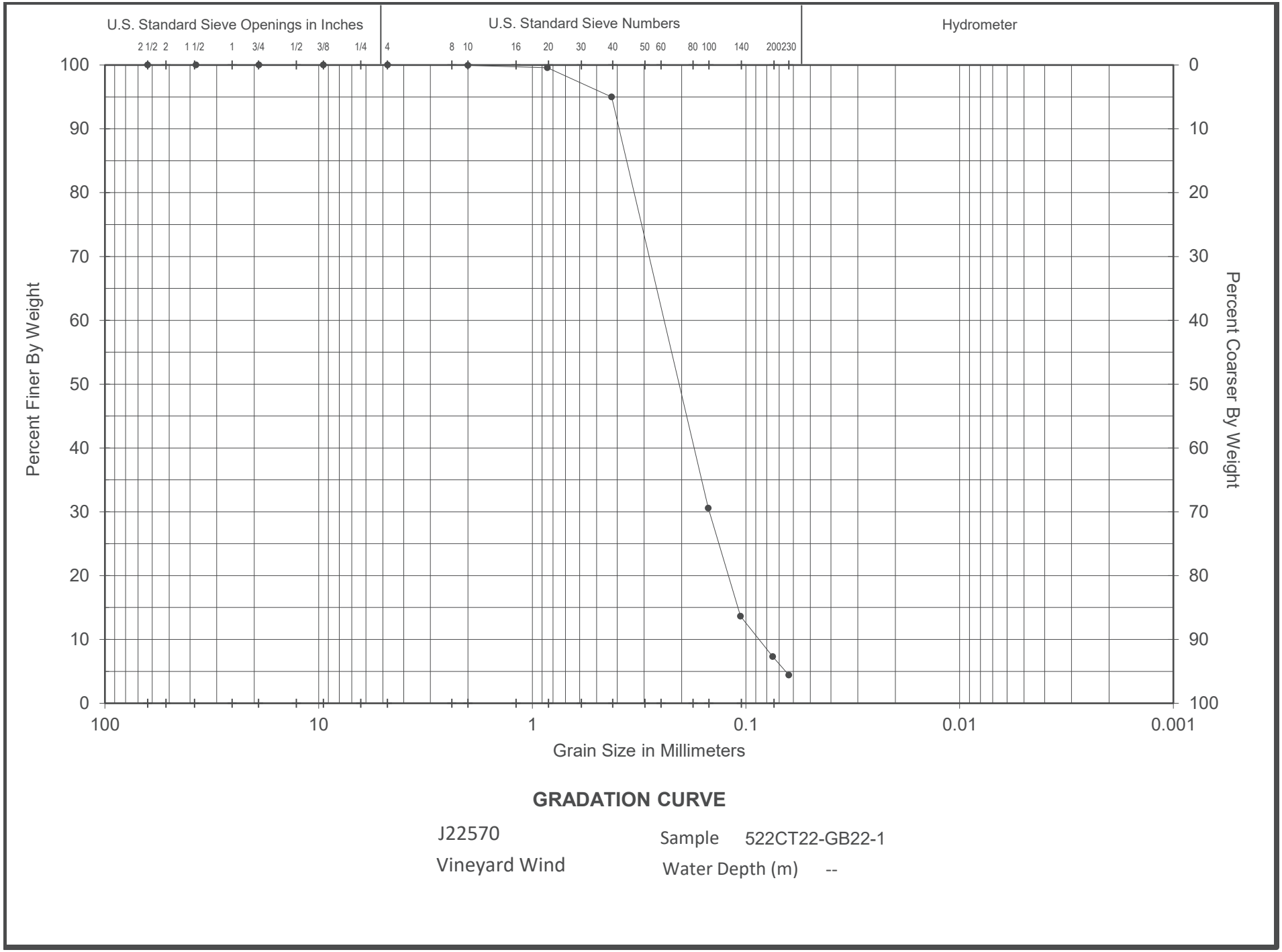
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.95	0.05	16.67
0.85	20	99.57	0.43	
0.425	40	94.98	5.02	
0.15	100	30.56	69.44	
0.106	140	13.64	86.36	
0.075	200	7.30	92.70	
0.063	230	4.42	95.58	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.95
% Passing #230	4.42
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	95.53
% Silt and Clay	< 0.0625 mm	4.42
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.43
% Medium Sand	0.25 - 0.50 mm	4.59
% Fine Sand	0.0625 - 0.25 mm	90.56

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.64	0.106	7.30	0.075	0.087
D30	30	30.56	0.150	13.64	0.106	0.148
D50	50	94.98	0.425	30.56	0.150	0.205
D60	60	94.98	0.425	30.56	0.150	0.241

Uniformity Coefficient (Cu)	2.778
Coefficient of Curvature (Cc)	1.048



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB22-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB23A-1
Water Depth (m)	--

Grain Size Data

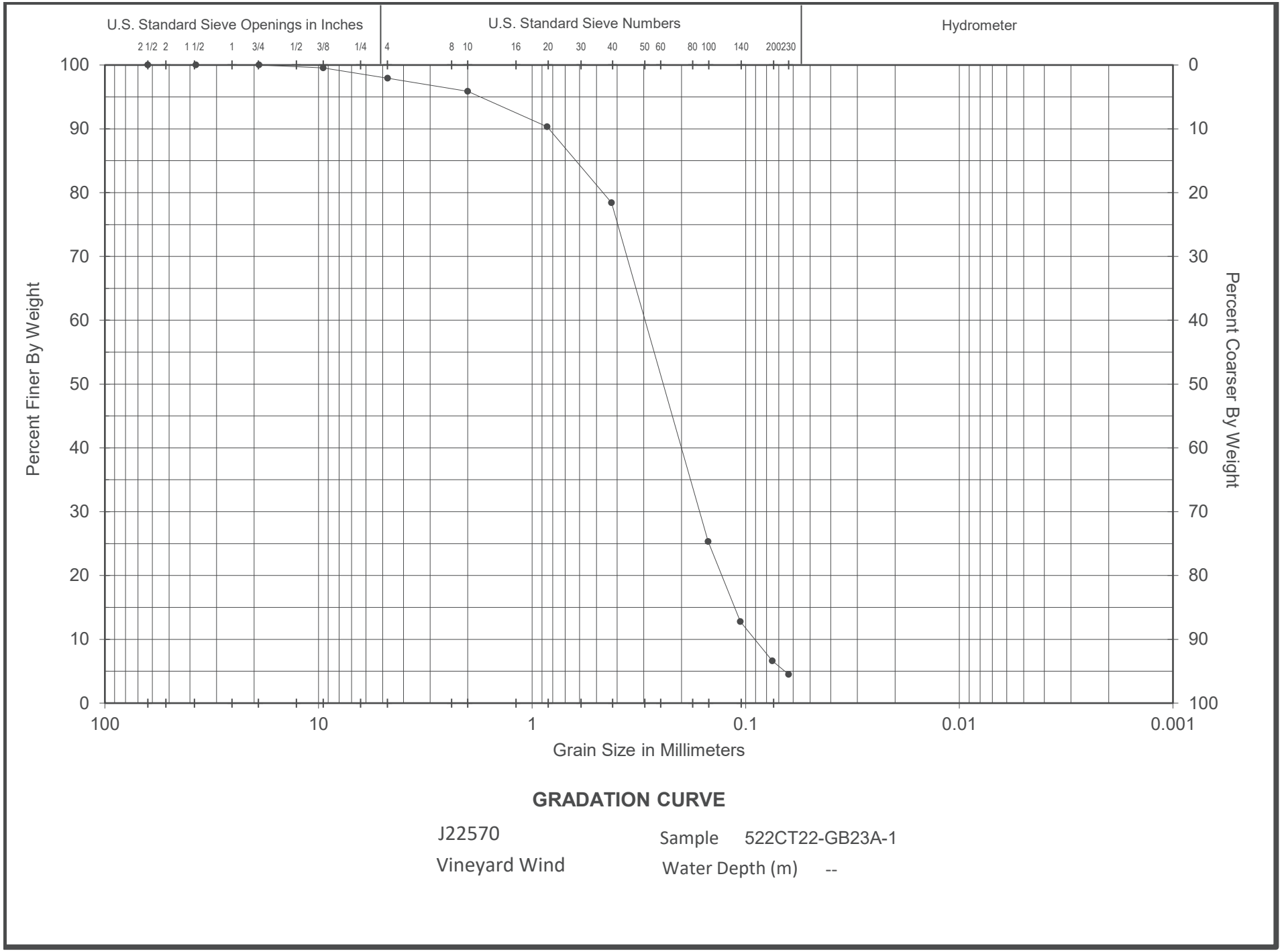
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.53	0.47	
4.75	4	97.94	2.06	
2	10	95.86	4.14	0.00
0.85	20	90.32	9.68	
0.425	40	78.42	21.58	
0.15	100	25.33	74.67	
0.106	140	12.78	87.22	
0.075	200	6.61	93.39	
0.063	230	4.51	95.49	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.86
% Passing #230	4.51
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.14
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	91.36
% Silt and Clay	< 0.0625 mm	4.51
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.62
% Medium Sand	0.25 - 0.50 mm	11.91
% Fine Sand	0.0625 - 0.25 mm	73.91

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.78	0.106	6.61	0.075	0.091
D30	30	78.42	0.425	25.33	0.150	0.164
D50	50	78.42	0.425	25.33	0.150	0.243
D60	60	78.42	0.425	25.33	0.150	0.296

Uniformity Coefficient (Cu)	3.265
Coefficient of Curvature (Cc)	1.006



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB23A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB23B-1
Water Depth (m)	--

Grain Size Data

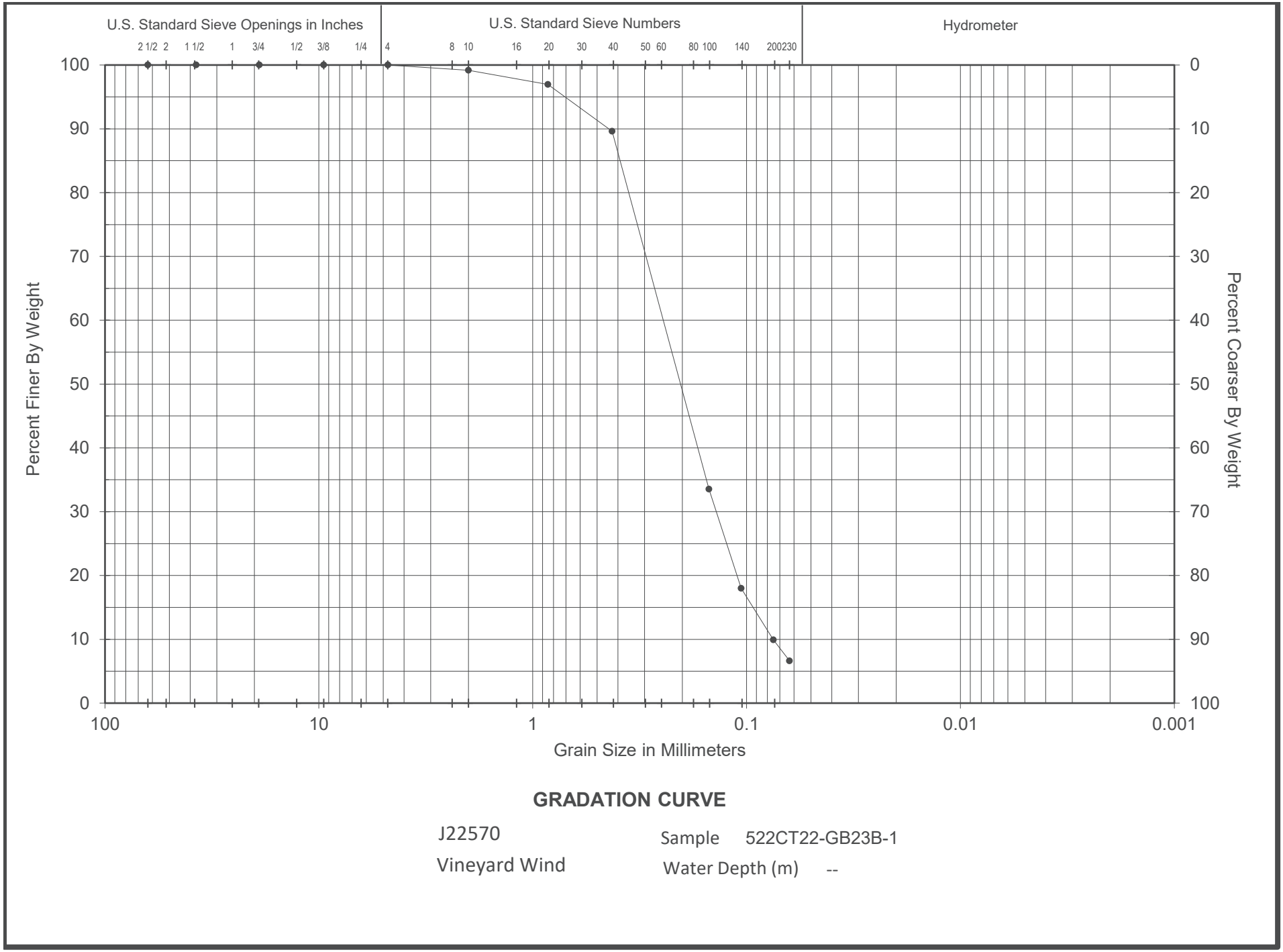
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.16	0.84	0.00
0.85	20	96.96	3.04	
0.425	40	89.61	10.39	
0.15	100	33.54	66.46	
0.106	140	18.01	81.99	
0.075	200	9.92	90.08	
0.063	230	6.63	93.37	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.16
% Passing #230	6.63
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.84
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	92.53
% Silt and Clay	< 0.0625 mm	6.63
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.04
% Medium Sand	0.25 - 0.50 mm	7.35
% Fine Sand	0.0625 - 0.25 mm	82.98

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.01	0.106	9.92	0.075	0.075
D30	30	33.54	0.150	18.01	0.106	0.139
D50	50	89.61	0.425	33.54	0.150	0.204
D60	60	89.61	0.425	33.54	0.150	0.245

Uniformity Coefficient (Cu)	3.258
Coefficient of Curvature (Cc)	1.041



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB23B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB23C-1
Water Depth (m)	--

Grain Size Data

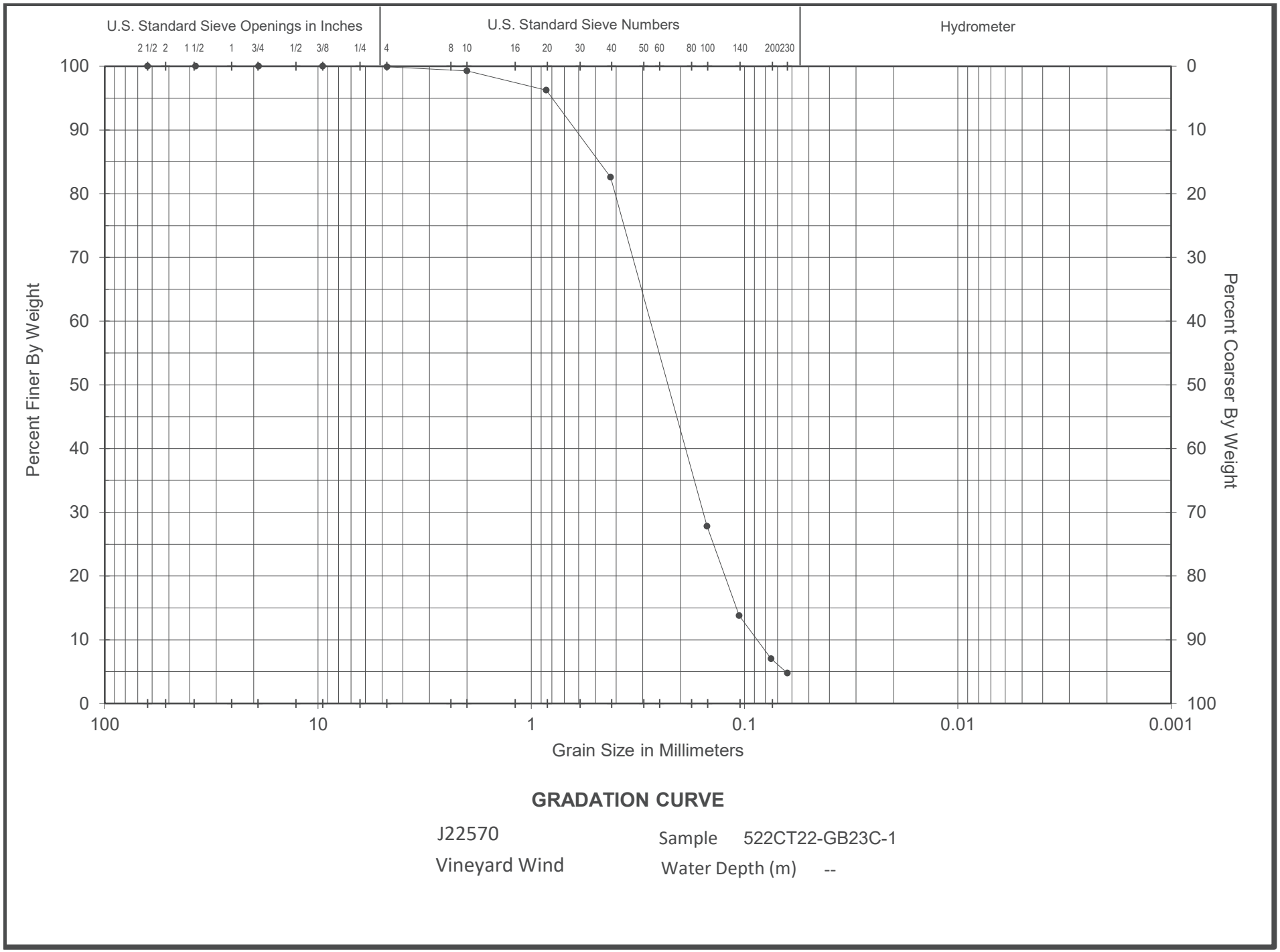
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.92	0.08	
2	10	99.28	0.72	0.00
0.85	20	96.25	3.75	
0.425	40	82.59	17.41	
0.15	100	27.81	72.19	
0.106	140	13.78	86.22	
0.075	200	7.04	92.96	
0.063	230	4.76	95.24	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.28
% Passing #230	4.76
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.72
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.52
% Silt and Clay	< 0.0625 mm	4.76
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.67
% Medium Sand	0.25 - 0.50 mm	13.66
% Fine Sand	0.0625 - 0.25 mm	77.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.78	0.106	7.04	0.075	0.087
D30	30	82.59	0.425	27.81	0.150	0.156
D50	50	82.59	0.425	27.81	0.150	0.229
D60	60	82.59	0.425	27.81	0.150	0.277

Uniformity Coefficient (Cu)	3.168
Coefficient of Curvature (Cc)	1.013



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB23C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB24-1
Water Depth (m)	--

Grain Size Data

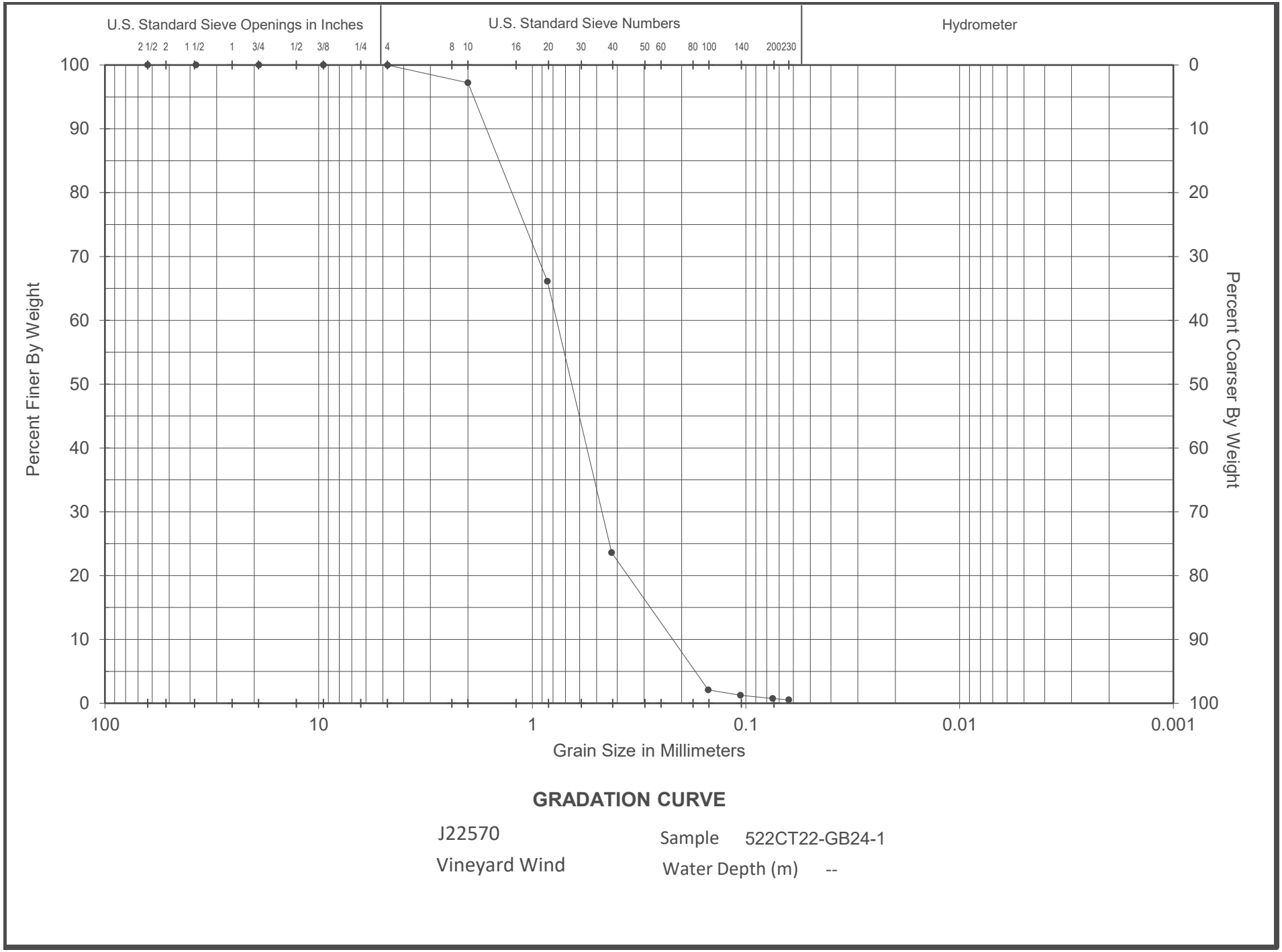
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.96	0.04	
2	10	97.22	2.78	3.45
0.85	20	66.13	33.87	
0.425	40	23.62	76.38	
0.15	100	2.09	97.91	
0.106	140	1.26	98.74	
0.075	200	0.73	99.27	
0.063	230	0.54	99.46	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.22
% Passing #230	0.54
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.69
% Gravel-Sized Shell	> 2.00 mm	0.10
% Sand	0.0625 - 2.00 mm	96.68
% Silt and Clay	< 0.0625 mm	0.54
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	33.84
% Medium Sand	0.25 - 0.50 mm	42.51
% Fine Sand	0.0625 - 0.25 mm	23.08

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.62	0.425	2.09	0.150	0.220
D30	30	66.13	0.850	23.62	0.425	0.472
D50	50	66.13	0.850	23.62	0.425	0.653
D60	60	66.13	0.850	23.62	0.425	0.769

Uniformity Coefficient (Cu)	3.498
Coefficient of Curvature (Cc)	1.315



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB24-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB25A-1
Water Depth (m)	--

Grain Size Data

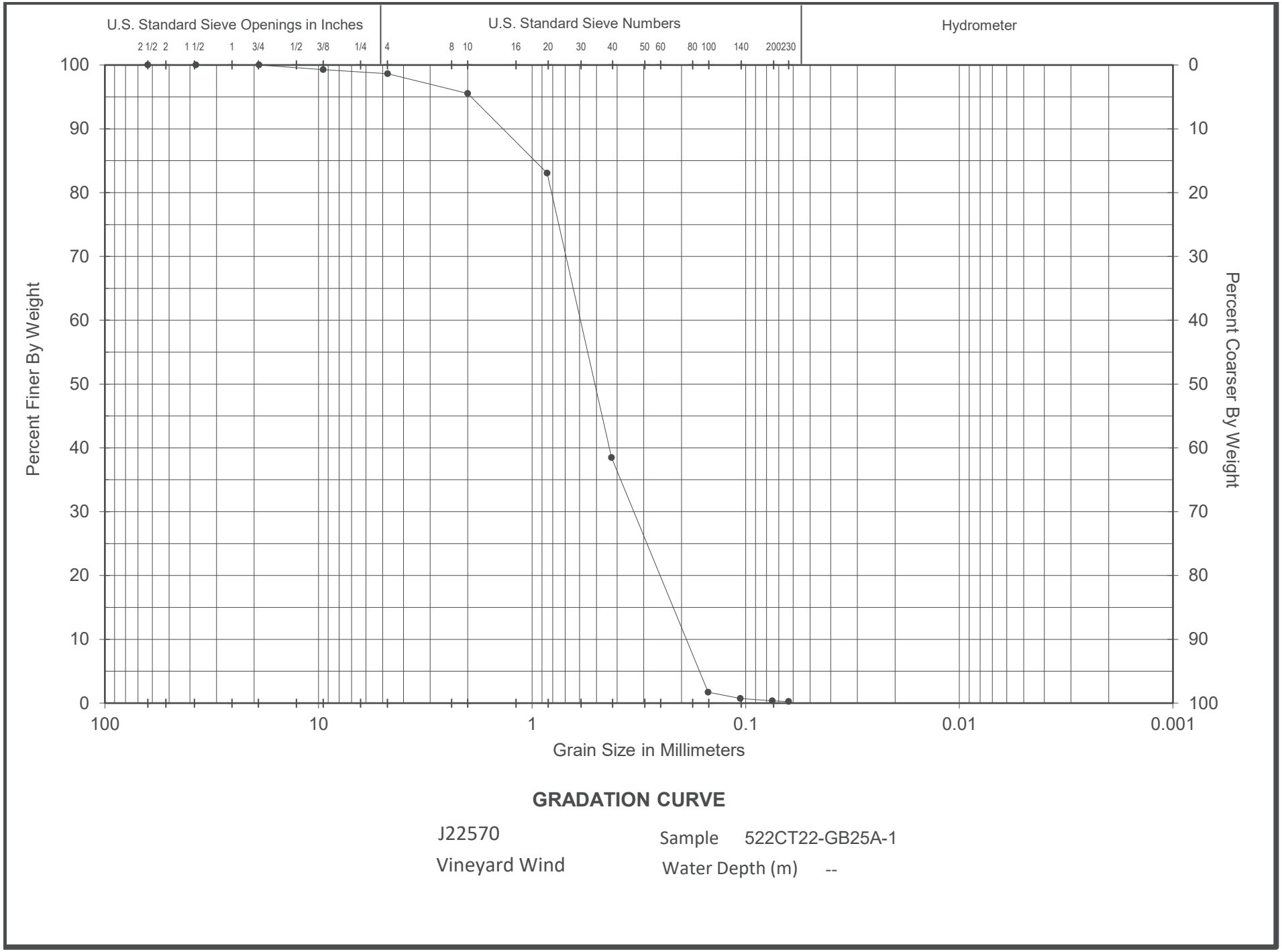
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.28	0.72	
4.75	4	98.65	1.35	
2	10	95.55	4.45	76.22
0.85	20	83.06	16.94	
0.425	40	38.48	61.52	
0.15	100	1.69	98.31	
0.106	140	0.73	99.27	
0.075	200	0.36	99.64	
0.063	230	0.24	99.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.55
% Passing #230	0.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.06
% Gravel-Sized Shell	> 2.00 mm	3.39
% Sand	0.0625 - 2.00 mm	95.30
% Silt and Clay	< 0.0625 mm	0.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	15.59
% Medium Sand	0.25 - 0.50 mm	44.58
% Fine Sand	0.0625 - 0.25 mm	38.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	38.48	0.425	1.69	0.150	0.190
D30	30	38.48	0.425	1.69	0.150	0.334
D50	50	83.06	0.850	38.48	0.425	0.508
D60	60	83.06	0.850	38.48	0.425	0.594

Uniformity Coefficient (Cu)	3.129
Coefficient of Curvature (Cc)	0.992



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB25A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB25B-1
Water Depth (m)	--

Grain Size Data

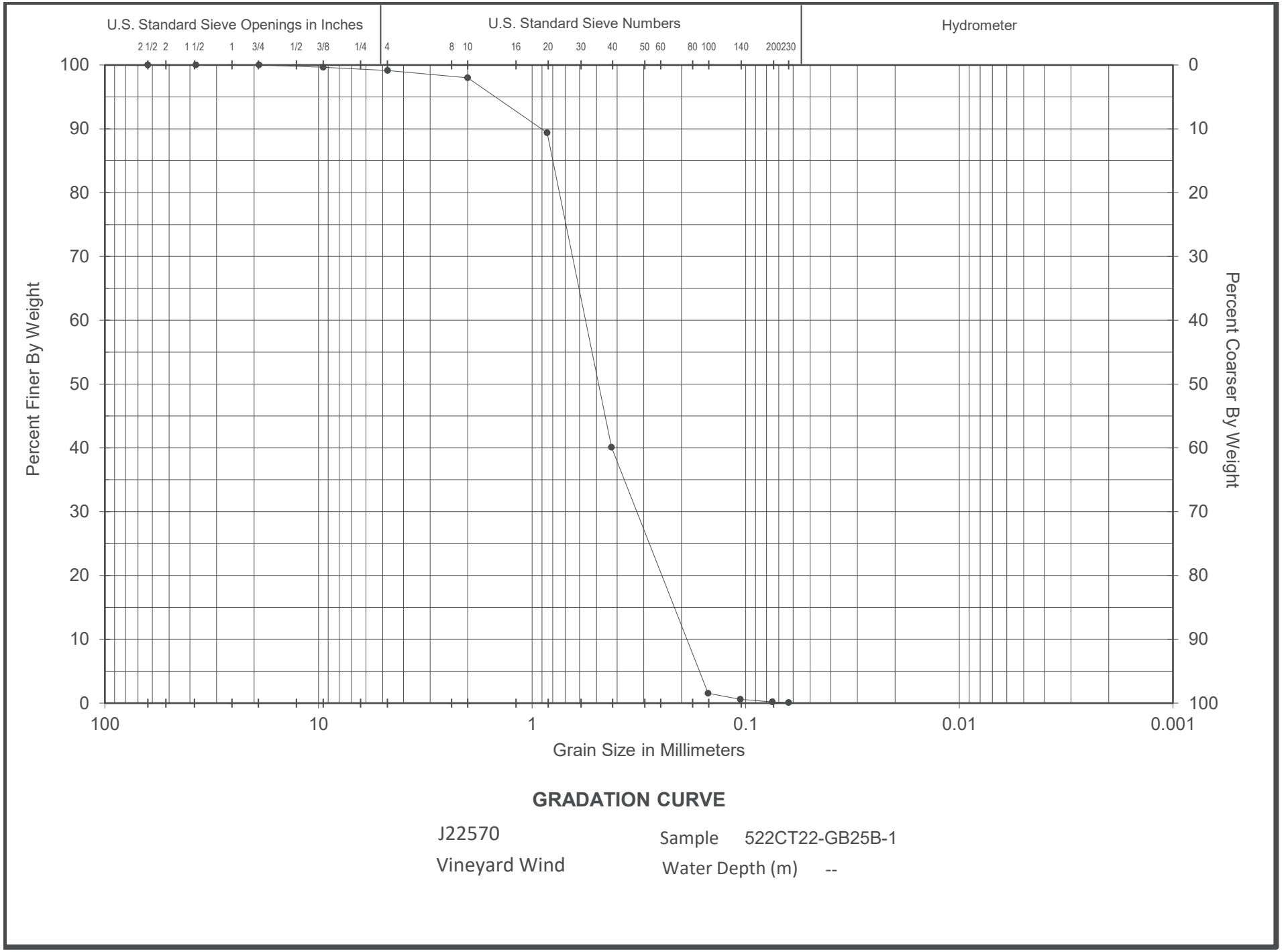
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.64	0.36	
4.75	4	99.15	0.85	
2	10	97.99	2.01	85.01
0.85	20	89.38	10.62	
0.425	40	40.09	59.91	
0.15	100	1.54	98.46	
0.106	140	0.59	99.41	
0.075	200	0.19	99.81	
0.063	230	0.09	99.91	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.99
% Passing #230	0.09
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.30
% Gravel-Sized Shell	> 2.00 mm	1.71
% Sand	0.0625 - 2.00 mm	97.90
% Silt and Clay	< 0.0625 mm	0.09
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.76
% Medium Sand	0.25 - 0.50 mm	49.30
% Fine Sand	0.0625 - 0.25 mm	39.99

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	40.09	0.425	1.54	0.150	0.189
D30	30	40.09	0.425	1.54	0.150	0.324
D50	50	89.38	0.850	40.09	0.425	0.489
D60	60	89.38	0.850	40.09	0.425	0.562

Uniformity Coefficient (Cu)	2.983
Coefficient of Curvature (Cc)	0.988



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB25B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB25C-1
Water Depth (m)	--

Grain Size Data

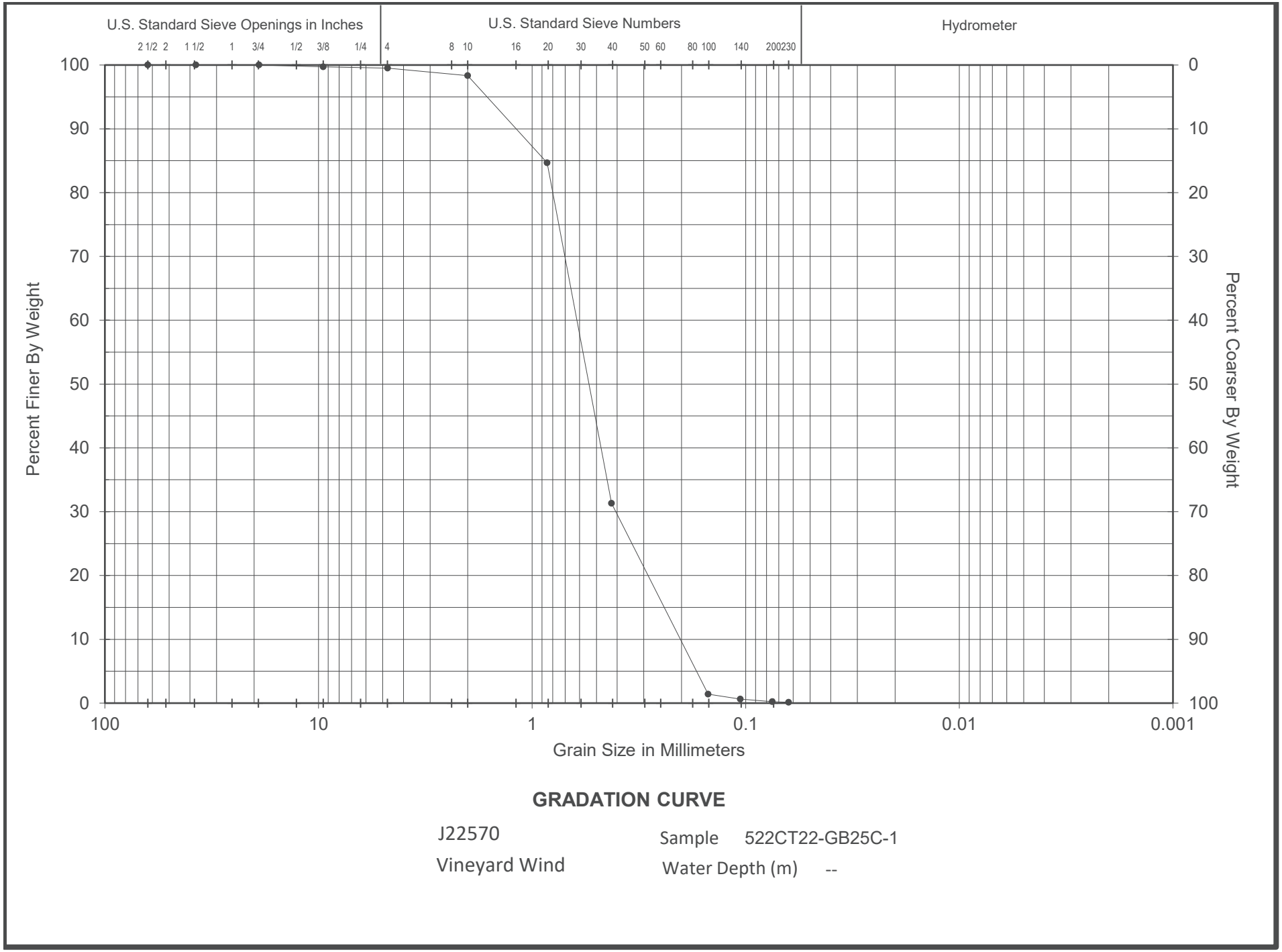
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.72	0.28	
4.75	4	99.51	0.49	
2	10	98.33	1.67	83.14
0.85	20	84.68	15.32	
0.425	40	31.30	68.70	
0.15	100	1.40	98.60	
0.106	140	0.63	99.37	
0.075	200	0.24	99.76	
0.063	230	0.14	99.86	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.33
% Passing #230	0.14
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.28
% Gravel-Sized Shell	> 2.00 mm	1.39
% Sand	0.0625 - 2.00 mm	98.20
% Silt and Clay	< 0.0625 mm	0.14
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.83
% Medium Sand	0.25 - 0.50 mm	53.39
% Fine Sand	0.0625 - 0.25 mm	31.16

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.30	0.425	1.40	0.150	0.202
D30	30	31.30	0.425	1.40	0.150	0.406
D50	50	84.68	0.850	31.30	0.425	0.542
D60	60	84.68	0.850	31.30	0.425	0.617

Uniformity Coefficient (Cu)	3.048
Coefficient of Curvature (Cc)	1.321



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB25C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB26-1
Water Depth (m)	--

Grain Size Data

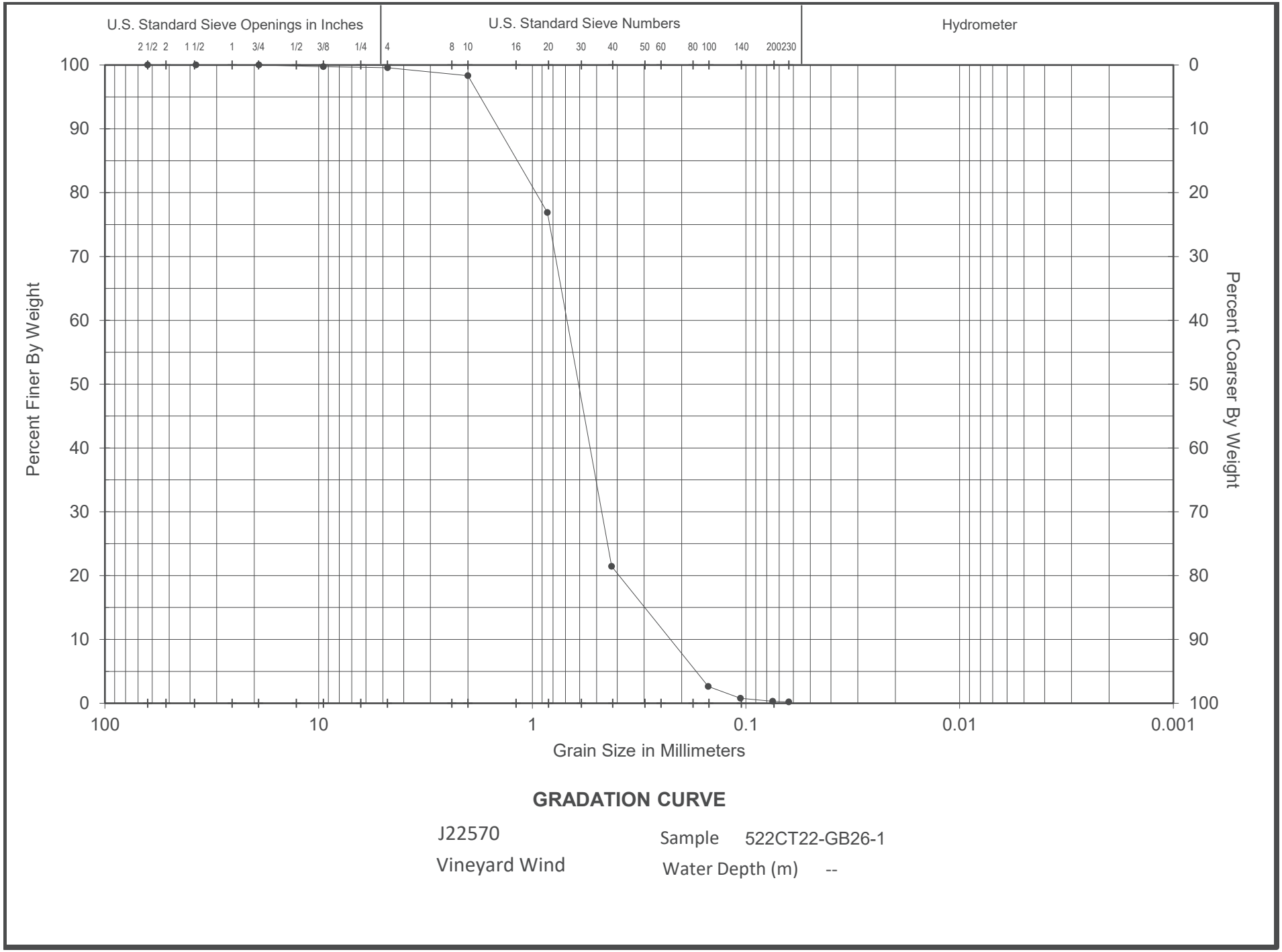
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.73	0.27	
4.75	4	99.57	0.43	
2	10	98.34	1.66	72.39
0.85	20	76.89	23.11	
0.425	40	21.46	78.54	
0.15	100	2.64	97.36	
0.106	140	0.76	99.24	
0.075	200	0.32	99.68	
0.063	230	0.21	99.79	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.34
% Passing #230	0.21
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.46
% Gravel-Sized Shell	> 2.00 mm	1.21
% Sand	0.0625 - 2.00 mm	98.12
% Silt and Clay	< 0.0625 mm	0.21
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	22.68
% Medium Sand	0.25 - 0.50 mm	55.43
% Fine Sand	0.0625 - 0.25 mm	21.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.46	0.425	2.64	0.150	0.225
D30	30	76.89	0.850	21.46	0.425	0.473
D50	50	76.89	0.850	21.46	0.425	0.607
D60	60	76.89	0.850	21.46	0.425	0.688

Uniformity Coefficient (Cu)	3.053
Coefficient of Curvature (Cc)	1.442



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB26-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB27A-1
Water Depth (m)	--

Grain Size Data

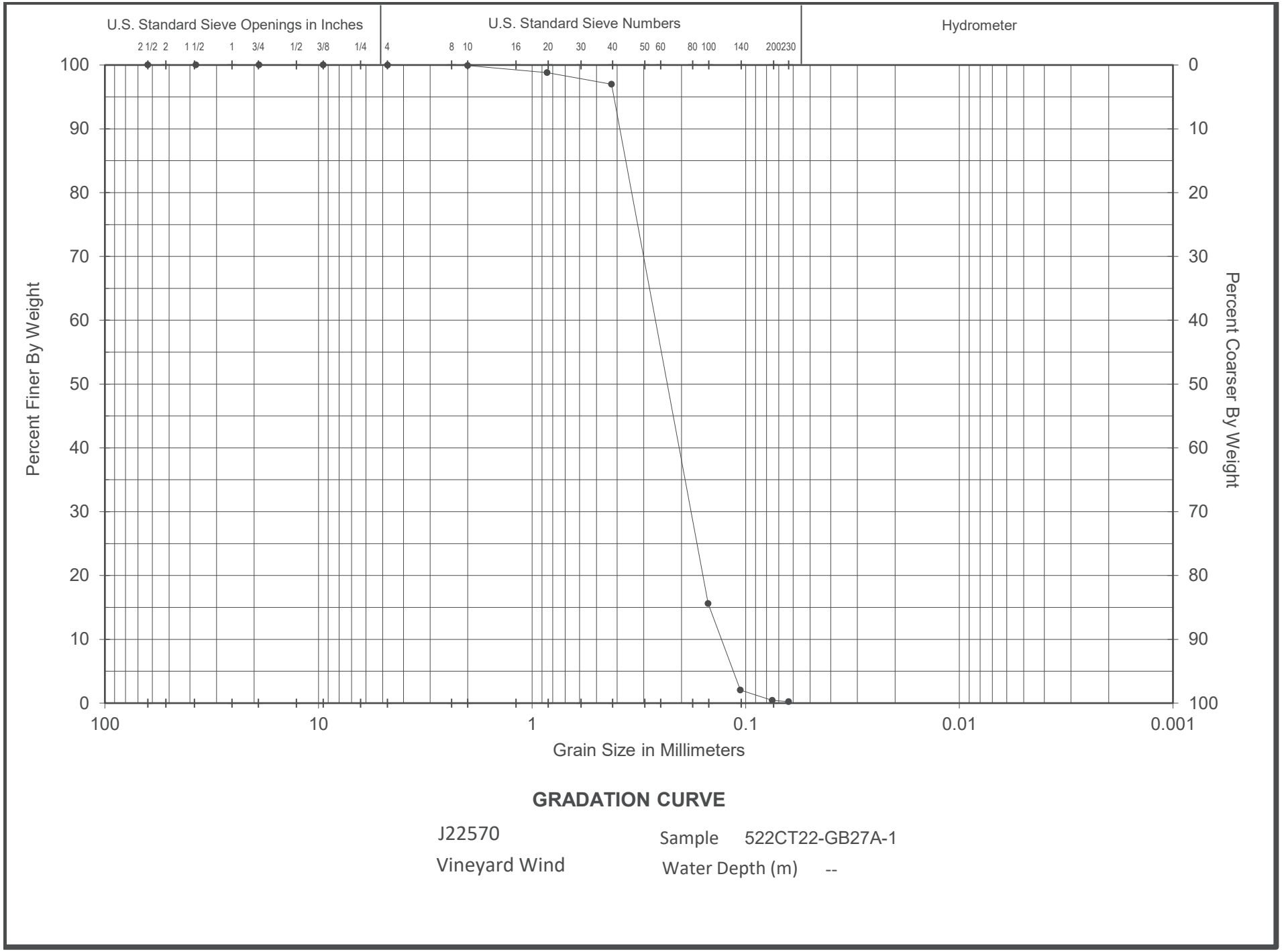
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.98	0.02	
2	10	99.92	0.08	85.19
0.85	20	98.80	1.20	
0.425	40	96.97	3.03	
0.15	100	15.59	84.41	
0.106	140	2.05	97.95	
0.075	200	0.42	99.58	
0.063	230	0.23	99.77	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.92
% Passing #230	0.23
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	99.69
% Silt and Clay	< 0.0625 mm	0.23
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.18
% Medium Sand	0.25 - 0.50 mm	1.83
% Fine Sand	0.0625 - 0.25 mm	96.74

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.59	0.150	2.05	0.106	0.130
D30	30	96.97	0.425	15.59	0.150	0.180
D50	50	96.97	0.425	15.59	0.150	0.233
D60	60	96.97	0.425	15.59	0.150	0.265

Uniformity Coefficient (Cu)	2.037
Coefficient of Curvature (Cc)	0.945



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB27A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB27B-1
Water Depth (m)	--

Grain Size Data

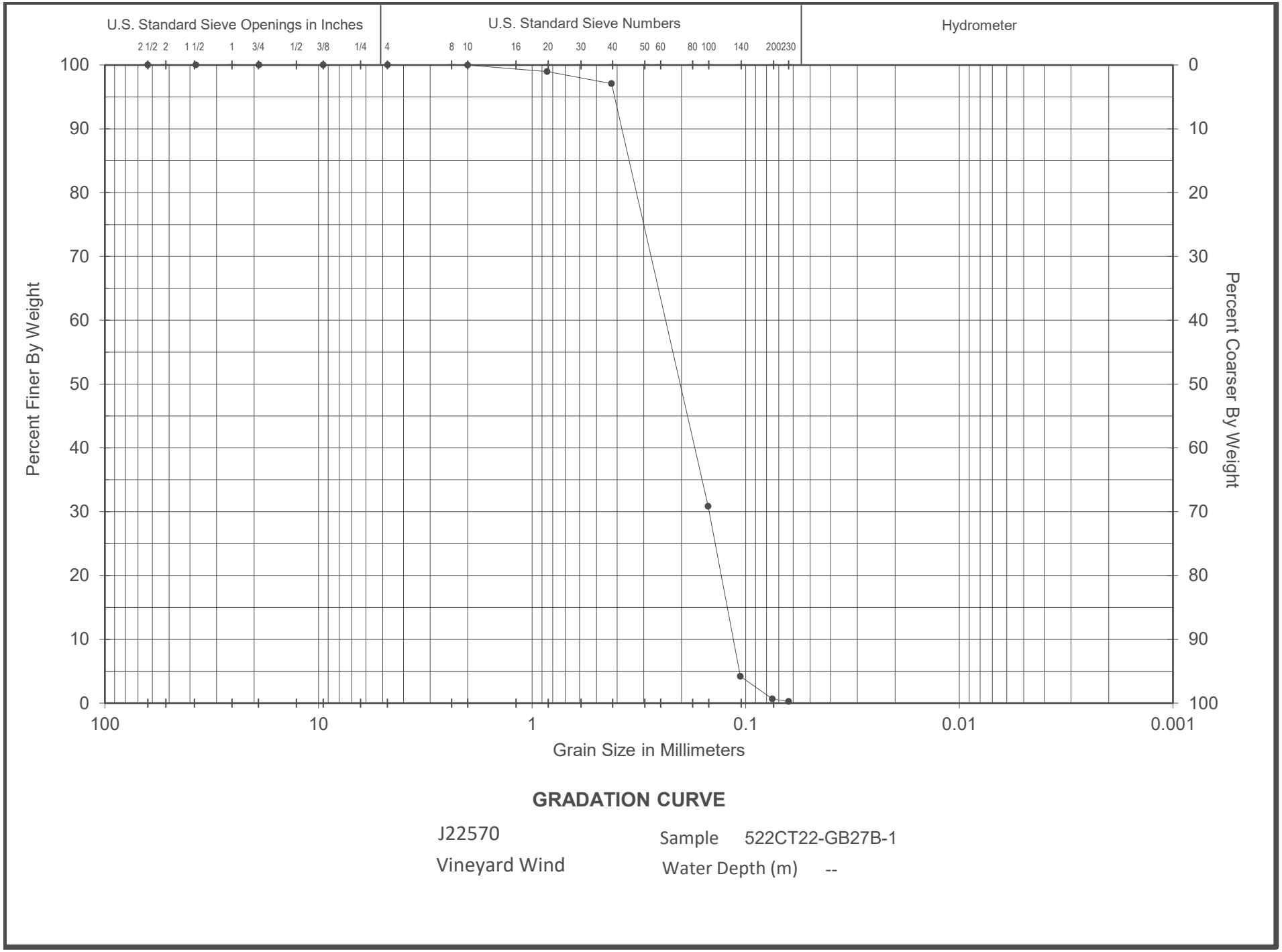
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	0.00
0.85	20	98.99	1.01	
0.425	40	97.10	2.90	
0.15	100	30.85	69.15	
0.106	140	4.19	95.81	
0.075	200	0.66	99.34	
0.063	230	0.26	99.74	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.26
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.73
% Silt and Clay	< 0.0625 mm	0.26
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.01
% Medium Sand	0.25 - 0.50 mm	1.89
% Fine Sand	0.0625 - 0.25 mm	96.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	30.85	0.150	4.19	0.106	0.114
D30	30	30.85	0.150	4.19	0.106	0.148
D50	50	97.10	0.425	30.85	0.150	0.203
D60	60	97.10	0.425	30.85	0.150	0.237

Uniformity Coefficient (Cu)	2.075
Coefficient of Curvature (Cc)	0.812



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB27B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB27C-1
Water Depth (m)	--

Grain Size Data

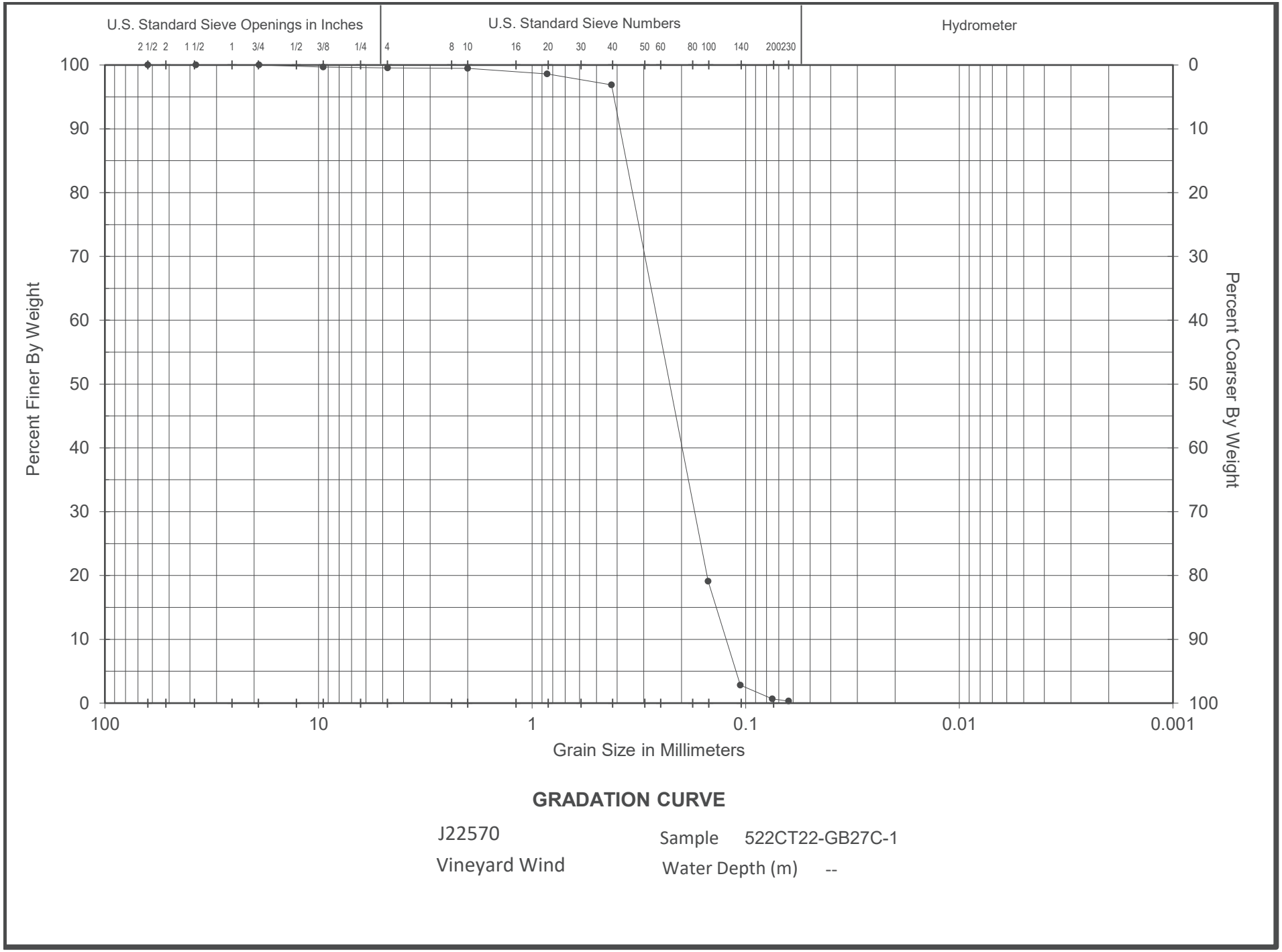
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.69	0.31	
4.75	4	99.54	0.46	
2	10	99.47	0.53	96.82
0.85	20	98.62	1.38	
0.425	40	96.87	3.13	
0.15	100	19.09	80.91	
0.106	140	2.83	97.17	
0.075	200	0.66	99.34	
0.063	230	0.31	99.69	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.47
% Passing #230	0.31
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.02
% Gravel-Sized Shell	> 2.00 mm	0.52
% Sand	0.0625 - 2.00 mm	99.15
% Silt and Clay	< 0.0625 mm	0.31
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.92
% Medium Sand	0.25 - 0.50 mm	1.75
% Fine Sand	0.0625 - 0.25 mm	96.56

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.09	0.150	2.83	0.106	0.124
D30	30	96.87	0.425	19.09	0.150	0.174
D50	50	96.87	0.425	19.09	0.150	0.227
D60	60	96.87	0.425	19.09	0.150	0.259

Uniformity Coefficient (Cu)	2.100
Coefficient of Curvature (Cc)	0.940



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB27C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB28-1
Water Depth (m)	--

Grain Size Data

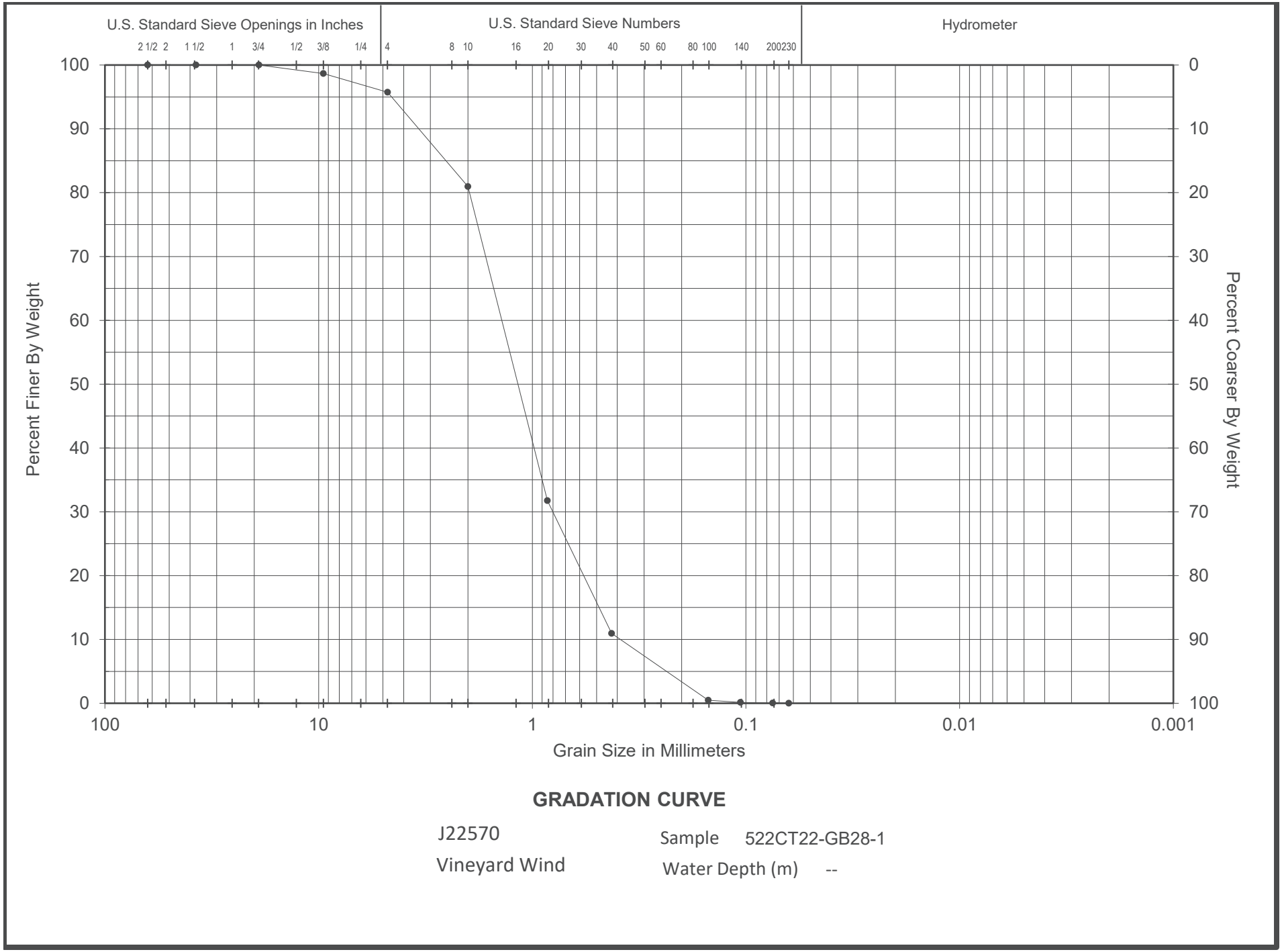
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.67	1.33	
4.75	4	95.75	4.25	
2	10	80.96	19.04	8.37
0.85	20	31.74	68.26	
0.425	40	10.96	89.04	
0.15	100	0.46	99.54	
0.106	140	0.15	99.85	
0.075	200	0.04	99.96	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	80.96
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	17.45
% Gravel-Sized Shell	> 2.00 mm	1.59
% Sand	0.0625 - 2.00 mm	80.95
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	64.01
% Medium Sand	0.25 - 0.50 mm	20.78
% Fine Sand	0.0625 - 0.25 mm	10.95

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.96	0.425	0.46	0.150	0.386
D30	30	31.74	0.850	10.96	0.425	0.802
D50	50	80.96	2.000	31.74	0.850	1.168
D60	60	80.96	2.000	31.74	0.850	1.389

Uniformity Coefficient (Cu)	3.595
Coefficient of Curvature (Cc)	1.199



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB28-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB29A-1
Water Depth (m)	--

Grain Size Data

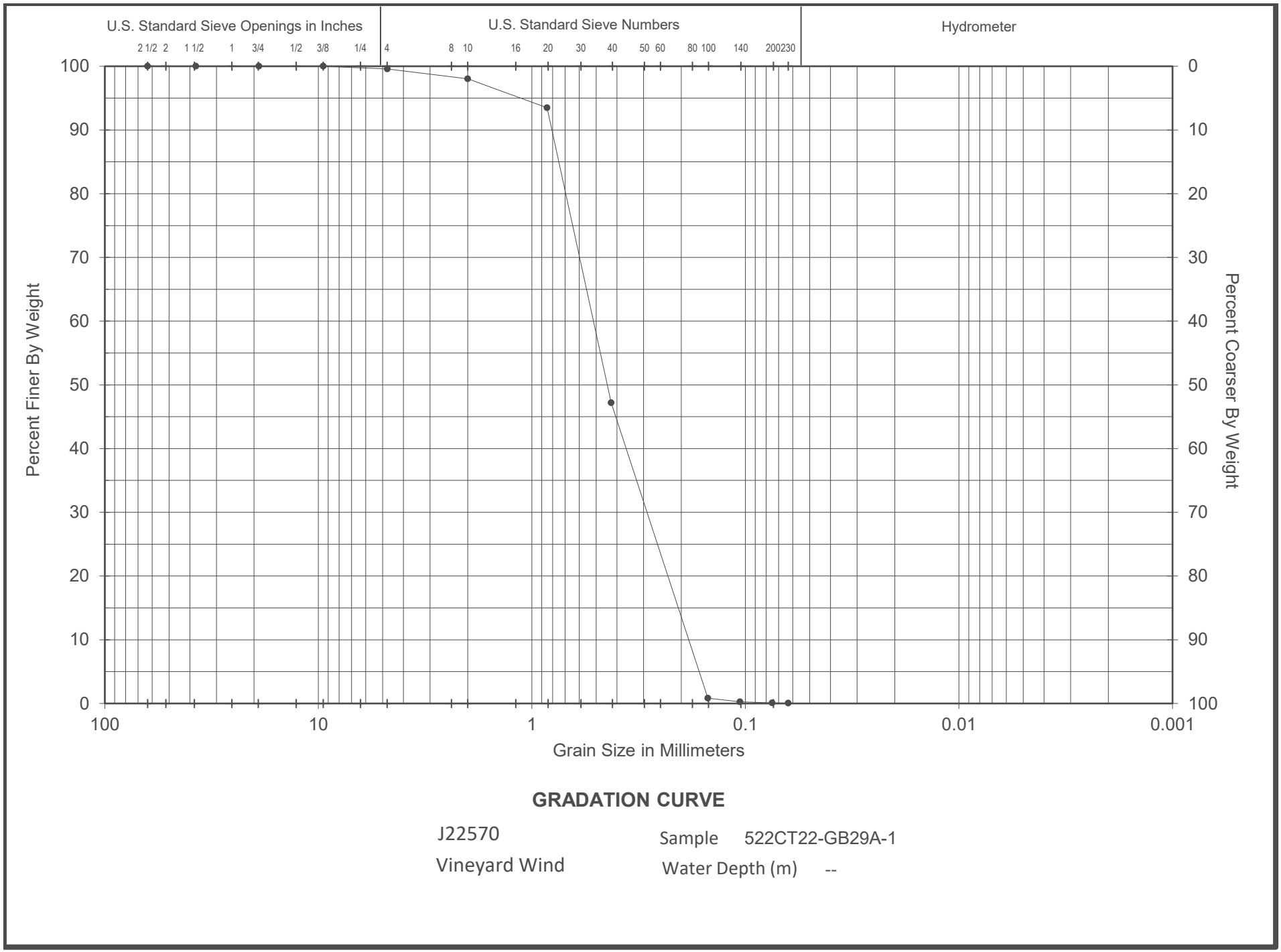
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.57	0.43	
2	10	98.02	1.98	91.30
0.85	20	93.49	6.51	
0.425	40	47.19	52.81	
0.15	100	0.84	99.16	
0.106	140	0.26	99.74	
0.075	200	0.10	99.90	
0.063	230	0.06	99.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.02
% Passing #230	0.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.17
% Gravel-Sized Shell	> 2.00 mm	1.81
% Sand	0.0625 - 2.00 mm	97.96
% Silt and Clay	< 0.0625 mm	0.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.08
% Medium Sand	0.25 - 0.50 mm	46.30
% Fine Sand	0.0625 - 0.25 mm	47.14

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	47.19	0.425	0.84	0.150	0.184
D30	30	47.19	0.425	0.84	0.150	0.289
D50	50	93.49	0.850	47.19	0.425	0.443
D60	60	93.49	0.850	47.19	0.425	0.515

Uniformity Coefficient (Cu)	2.794
Coefficient of Curvature (Cc)	0.879



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB29A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB29B-1
Water Depth (m)	--

Grain Size Data

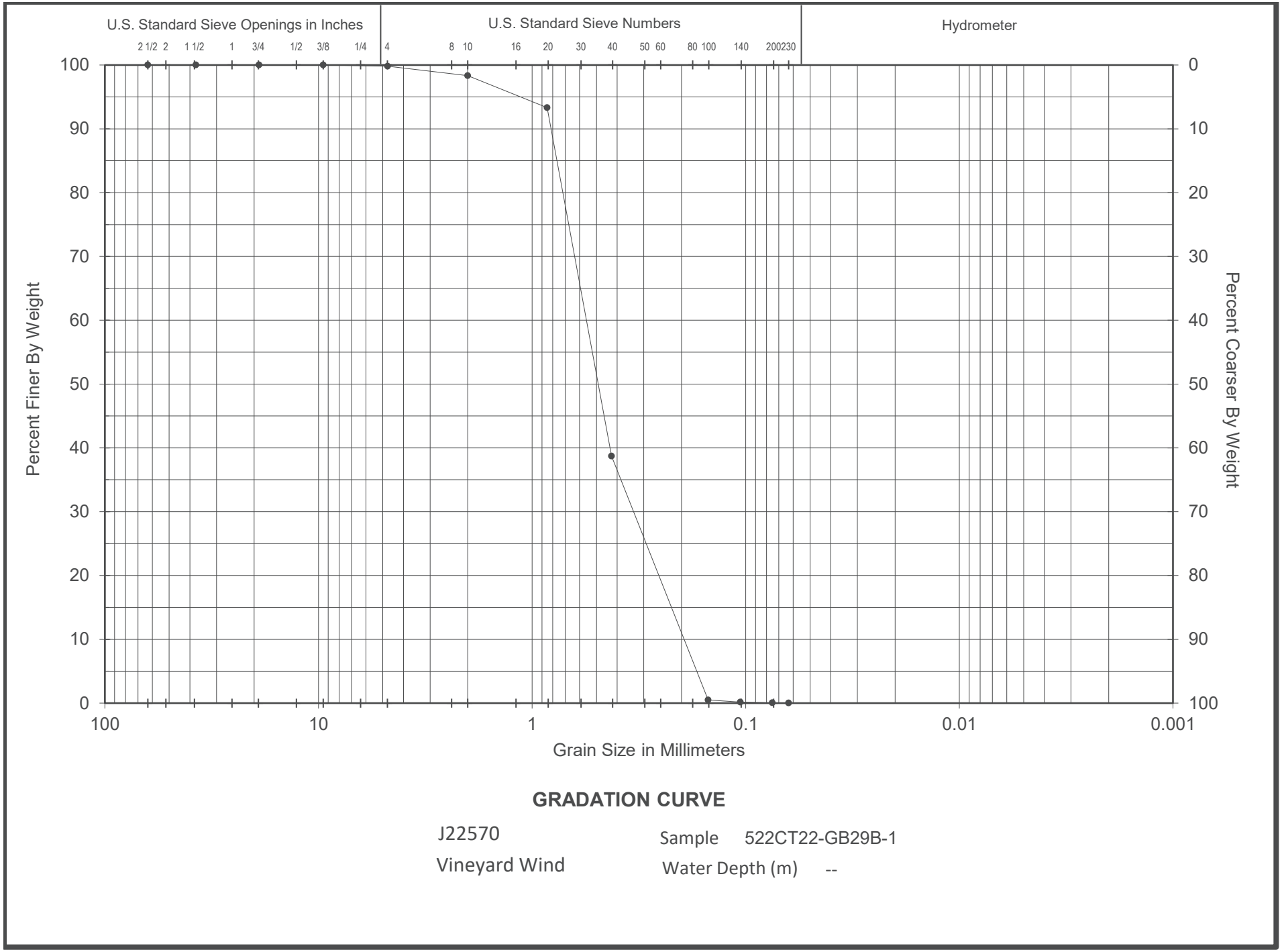
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.81	0.19	
2	10	98.32	1.68	0.00
0.85	20	93.34	6.66	
0.425	40	38.71	61.29	
0.15	100	0.50	99.50	
0.106	140	0.18	99.82	
0.075	200	0.06	99.94	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.32
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.68
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	98.29
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.48
% Medium Sand	0.25 - 0.50 mm	54.63
% Fine Sand	0.0625 - 0.25 mm	38.67

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	38.71	0.425	0.50	0.150	0.194
D30	30	38.71	0.425	0.50	0.150	0.335
D50	50	93.34	0.850	38.71	0.425	0.490
D60	60	93.34	0.850	38.71	0.425	0.557

Uniformity Coefficient (Cu)	2.866
Coefficient of Curvature (Cc)	1.038



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB29B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB29C-1
Water Depth (m)	--

Grain Size Data

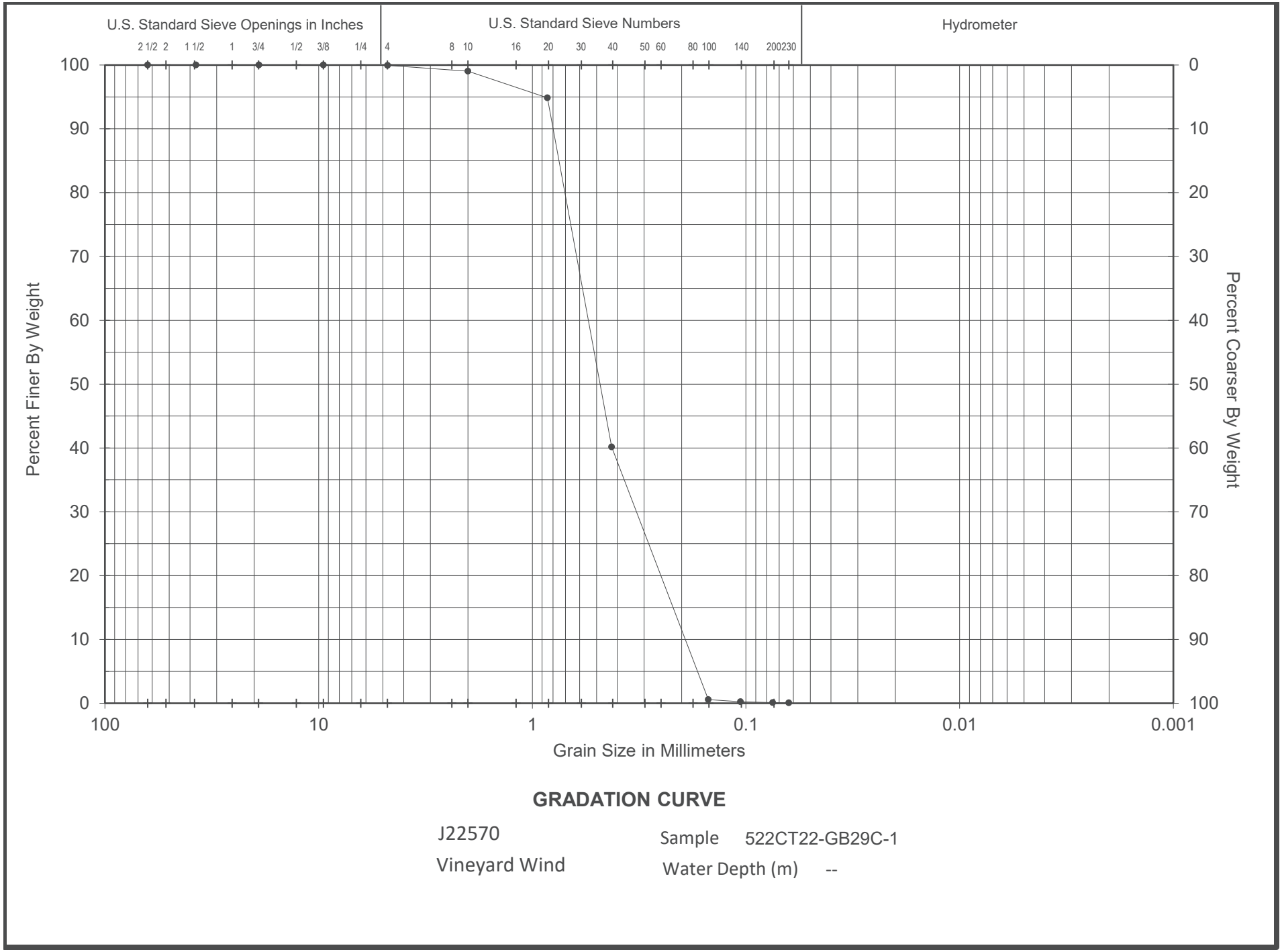
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.93	0.07	
2	10	99.05	0.95	7.26
0.85	20	94.87	5.13	
0.425	40	40.17	59.83	
0.15	100	0.58	99.42	
0.106	140	0.24	99.76	
0.075	200	0.11	99.89	
0.063	230	0.07	99.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.05
% Passing #230	0.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.89
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	98.97
% Silt and Clay	< 0.0625 mm	0.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.06
% Medium Sand	0.25 - 0.50 mm	54.70
% Fine Sand	0.0625 - 0.25 mm	40.10

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	40.17	0.425	0.58	0.150	0.192
D30	30	40.17	0.425	0.58	0.150	0.325
D50	50	94.87	0.850	40.17	0.425	0.481
D60	60	94.87	0.850	40.17	0.425	0.546

Uniformity Coefficient (Cu)	2.843
Coefficient of Curvature (Cc)	1.007



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB29C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB30-1
Water Depth (m)	--

Grain Size Data

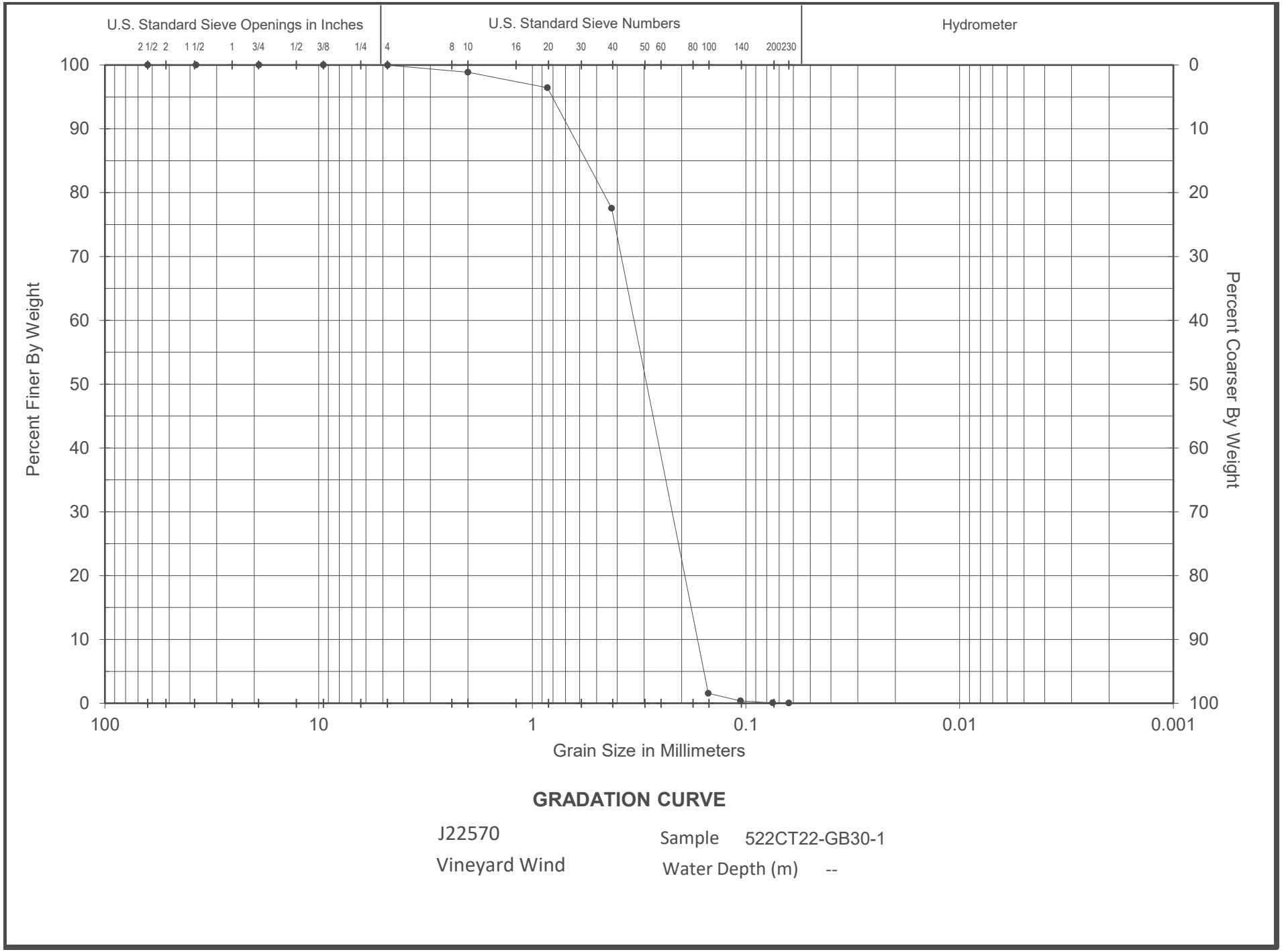
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.98	0.02	
2	10	98.87	1.13	78.84
0.85	20	96.43	3.57	
0.425	40	77.55	22.45	
0.15	100	1.55	98.45	
0.106	140	0.37	99.63	
0.075	200	0.08	99.92	
0.063	230	0.03	99.97	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.87
% Passing #230	0.03
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.24
% Gravel-Sized Shell	> 2.00 mm	0.89
% Sand	0.0625 - 2.00 mm	98.84
% Silt and Clay	< 0.0625 mm	0.03
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.55
% Medium Sand	0.25 - 0.50 mm	18.88
% Fine Sand	0.0625 - 0.25 mm	77.52

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	77.55	0.425	1.55	0.150	0.168
D30	30	77.55	0.425	1.55	0.150	0.222
D50	50	77.55	0.425	1.55	0.150	0.291
D60	60	77.55	0.425	1.55	0.150	0.334

Uniformity Coefficient (Cu)	1.984
Coefficient of Curvature (Cc)	0.872



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB30-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB31A-1
Water Depth (m)	--

Grain Size Data

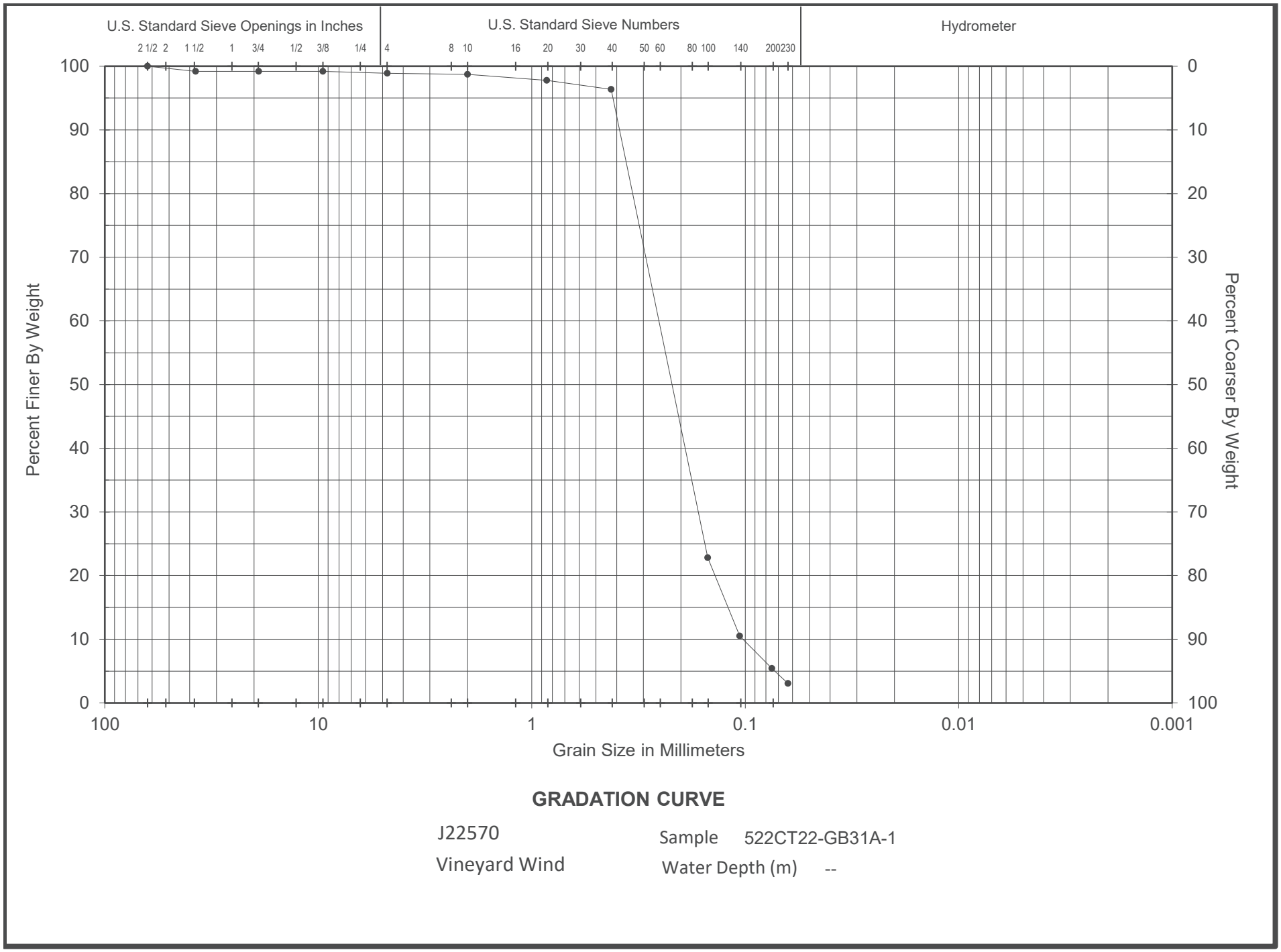
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	99.18	0.82	
19	3/4"	99.18	0.82	
9.5	3/8"	99.18	0.82	
4.75	4	98.88	1.12	
2	10	98.71	1.29	100.00
0.85	20	97.78	2.22	
0.425	40	96.37	3.63	
0.15	100	22.81	77.19	
0.106	140	10.50	89.50	
0.075	200	5.43	94.57	
0.063	230	3.05	96.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.71
% Passing #230	3.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	1.29
% Sand	0.0625 - 2.00 mm	95.66
% Silt and Clay	< 0.0625 mm	3.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.10
% Medium Sand	0.25 - 0.50 mm	1.40
% Fine Sand	0.0625 - 0.25 mm	93.32

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.50	0.106	5.43	0.075	0.102
D30	30	96.37	0.425	22.81	0.150	0.166
D50	50	96.37	0.425	22.81	0.150	0.220
D60	60	96.37	0.425	22.81	0.150	0.254

Uniformity Coefficient (Cu)	2.478
Coefficient of Curvature (Cc)	1.060



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB31A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB31B-1
Water Depth (m)	--

Grain Size Data

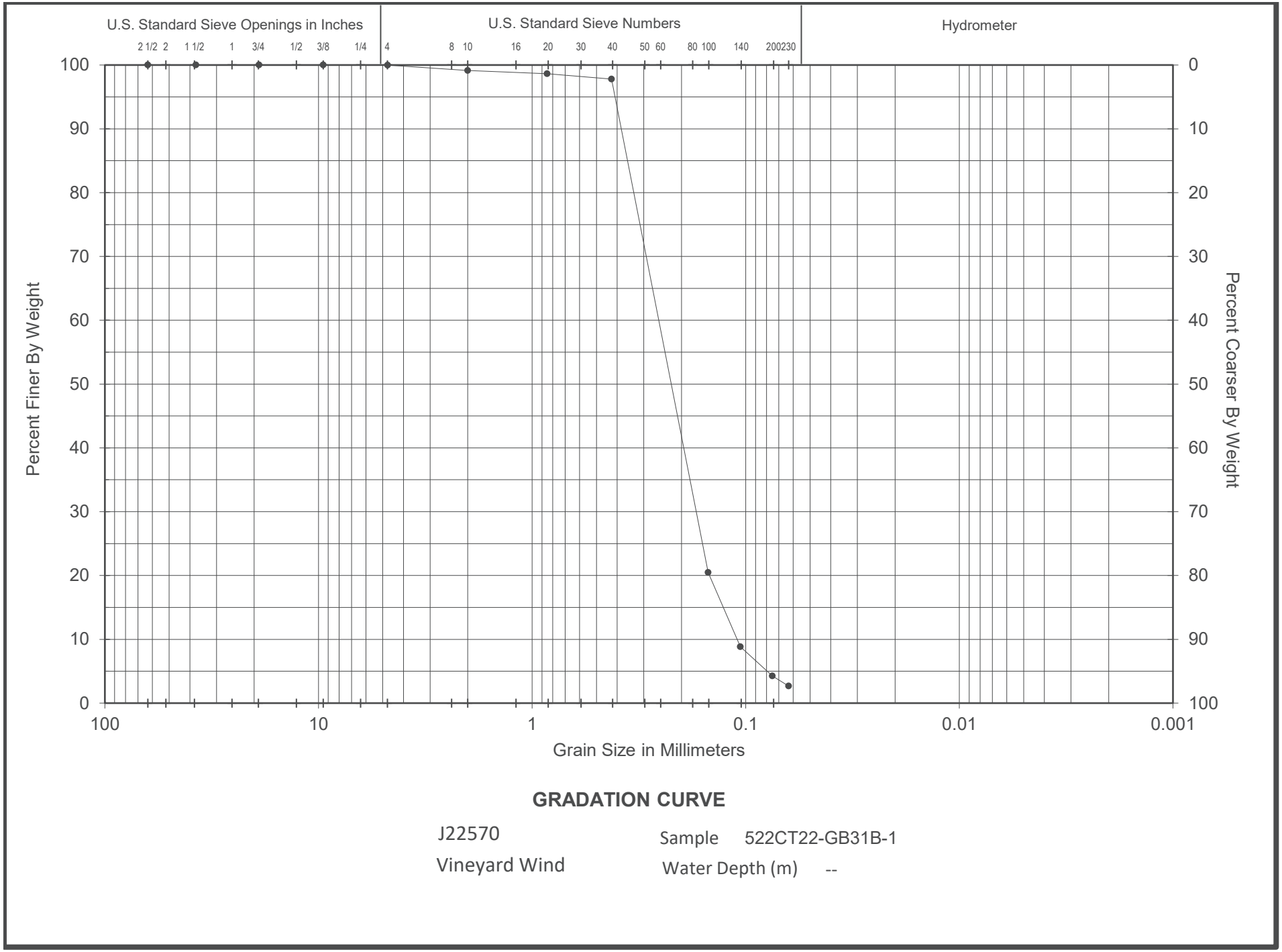
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.98	0.02	
2	10	99.16	0.84	100.00
0.85	20	98.62	1.38	
0.425	40	97.78	2.22	
0.15	100	20.46	79.54	
0.106	140	8.85	91.15	
0.075	200	4.25	95.75	
0.063	230	2.67	97.33	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.16
% Passing #230	2.67
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.84
% Sand	0.0625 - 2.00 mm	96.48
% Silt and Clay	< 0.0625 mm	2.67
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.36
% Medium Sand	0.25 - 0.50 mm	0.84
% Fine Sand	0.0625 - 0.25 mm	95.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.46	0.150	8.85	0.106	0.110
D30	30	97.78	0.425	20.46	0.150	0.171
D50	50	97.78	0.425	20.46	0.150	0.223
D60	60	97.78	0.425	20.46	0.150	0.255

Uniformity Coefficient (Cu)	2.329
Coefficient of Curvature (Cc)	1.038



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB31B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB31C-1
Water Depth (m)	--

Grain Size Data

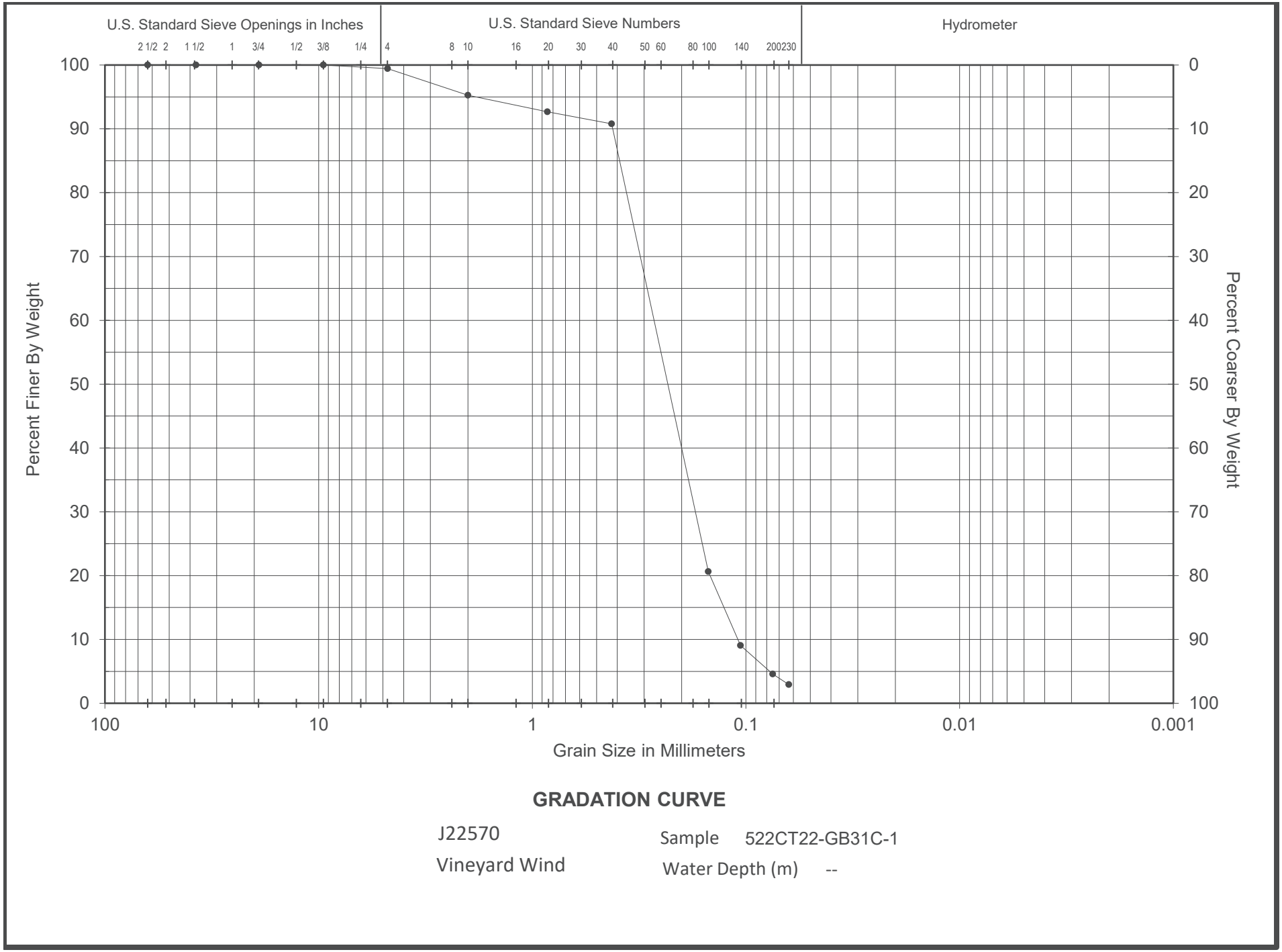
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.44	0.56	
2	10	95.28	4.72	100.00
0.85	20	92.67	7.33	
0.425	40	90.78	9.22	
0.15	100	20.64	79.36	
0.106	140	9.06	90.94	
0.075	200	4.59	95.41	
0.063	230	2.92	97.08	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.28
% Passing #230	2.92
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	4.72
% Sand	0.0625 - 2.00 mm	92.35
% Silt and Clay	< 0.0625 mm	2.92
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.77
% Medium Sand	0.25 - 0.50 mm	1.89
% Fine Sand	0.0625 - 0.25 mm	87.86

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.64	0.150	9.06	0.106	0.109
D30	30	90.78	0.425	20.64	0.150	0.172
D50	50	90.78	0.425	20.64	0.150	0.232
D60	60	90.78	0.425	20.64	0.150	0.269

Uniformity Coefficient (Cu)	2.468
Coefficient of Curvature (Cc)	1.013



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB31C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB32-1
Water Depth (m)	--

Grain Size Data

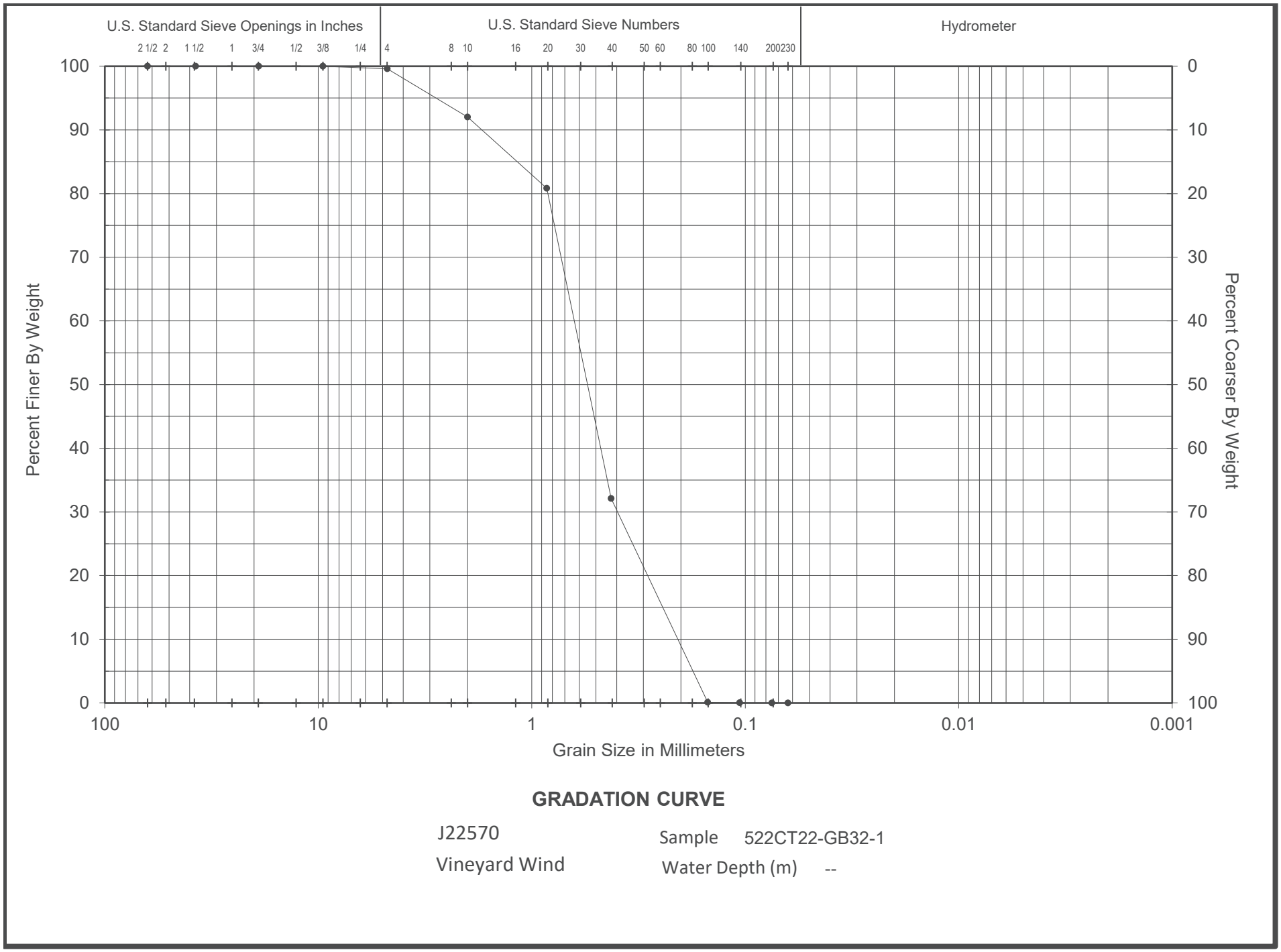
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.59	0.41	
2	10	92.02	7.98	1.24
0.85	20	80.83	19.17	
0.425	40	32.09	67.91	
0.15	100	0.11	99.89	
0.106	140	0.03	99.97	
0.075	200	0.01	99.99	
0.063	230	0.003	100.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	92.02
% Passing #230	0.00
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	7.88
% Gravel-Sized Shell	> 2.00 mm	0.10
% Sand	0.0625 - 2.00 mm	92.01
% Silt and Clay	< 0.0625 mm	0.003
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	18.76
% Medium Sand	0.25 - 0.50 mm	48.73
% Fine Sand	0.0625 - 0.25 mm	32.09

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	32.09	0.425	0.11	0.150	0.207
D30	30	32.09	0.425	0.11	0.150	0.397
D50	50	80.83	0.850	32.09	0.425	0.548
D60	60	80.83	0.850	32.09	0.425	0.632

Uniformity Coefficient (Cu)	3.054
Coefficient of Curvature (Cc)	1.205



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB32-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB33A-2
Water Depth (m)	--

Grain Size Data

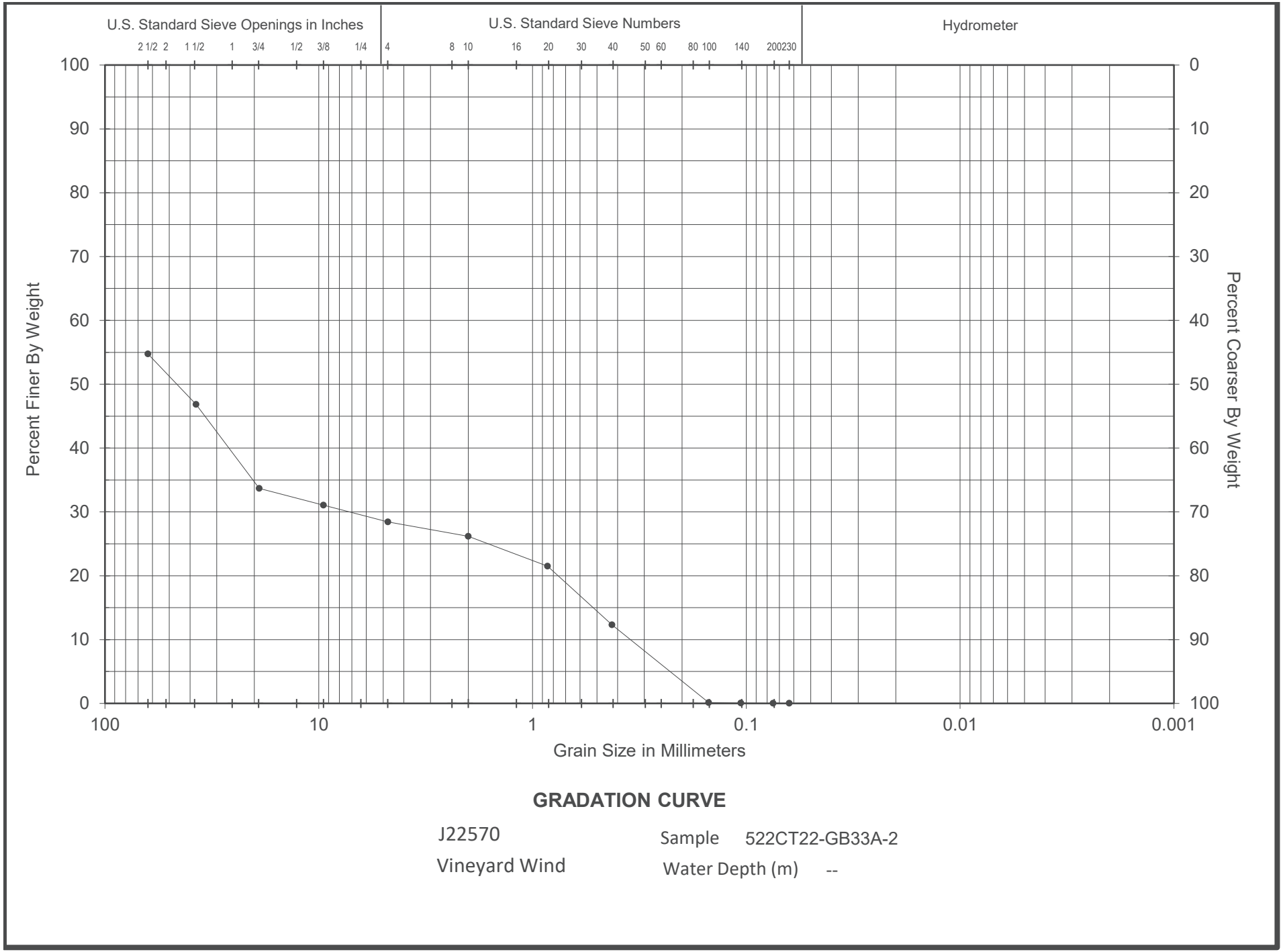
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	54.76	45.24	
37.5	1.5"	46.85	53.15	
19	3/4"	33.69	66.31	
9.5	3/8"	31.06	68.94	
4.75	4	28.44	71.56	
2	10	26.18	73.82	10.51
0.85	20	21.50	78.50	
0.425	40	12.31	87.69	
0.15	100	0.11	99.89	
0.106	140	0.05	99.95	
0.075	200	0.03	99.97	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	26.18
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	66.06
% Gravel-Sized Shell	> 2.00 mm	7.76
% Sand	0.0625 - 2.00 mm	26.16
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.94
% Medium Sand	0.25 - 0.50 mm	9.20
% Fine Sand	0.0625 - 0.25 mm	12.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.31	0.425	0.11	0.150	0.349
D30	30	31.06	9.500	28.44	4.750	7.176
D50	50	54.76	63.000	46.85	37.500	46.100
D60	60	#VALUE!	0.000	54.76	63.000	#NUM!

Uniformity Coefficient (Cu)	#NUM!
Coefficient of Curvature (Cc)	#NUM!



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB33A-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB34-1
Water Depth (m)	--

Grain Size Data

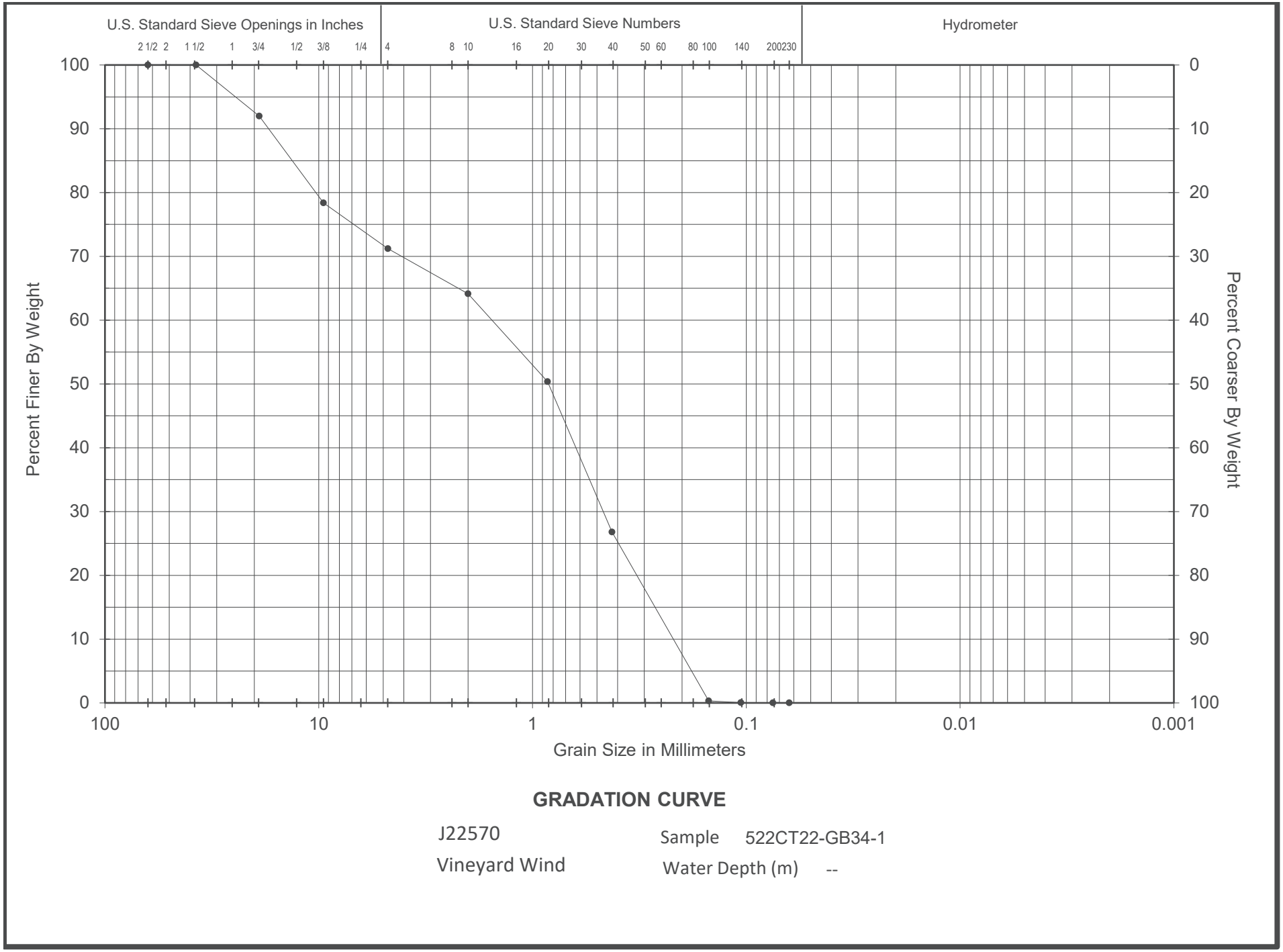
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	91.99	8.01	
9.5	3/8"	78.39	21.61	
4.75	4	71.21	28.79	
2	10	64.15	35.85	22.73
0.85	20	50.37	49.63	
0.425	40	26.78	73.22	
0.15	100	0.32	99.68	
0.106	140	0.06	99.94	
0.075	200	0.02	99.98	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	64.15
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	27.71
% Gravel-Sized Shell	> 2.00 mm	8.15
% Sand	0.0625 - 2.00 mm	64.13
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	20.84
% Medium Sand	0.25 - 0.50 mm	23.59
% Fine Sand	0.0625 - 0.25 mm	26.77

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	26.78	0.425	0.32	0.150	0.220
D30	30	50.37	0.850	26.78	0.425	0.467
D50	50	50.37	0.850	26.78	0.425	0.841
D60	60	64.15	2.000	50.37	0.850	1.546

Uniformity Coefficient (Cu)	7.041
Coefficient of Curvature (Cc)	0.643



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB34-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB35A-1
Water Depth (m)	--

Grain Size Data

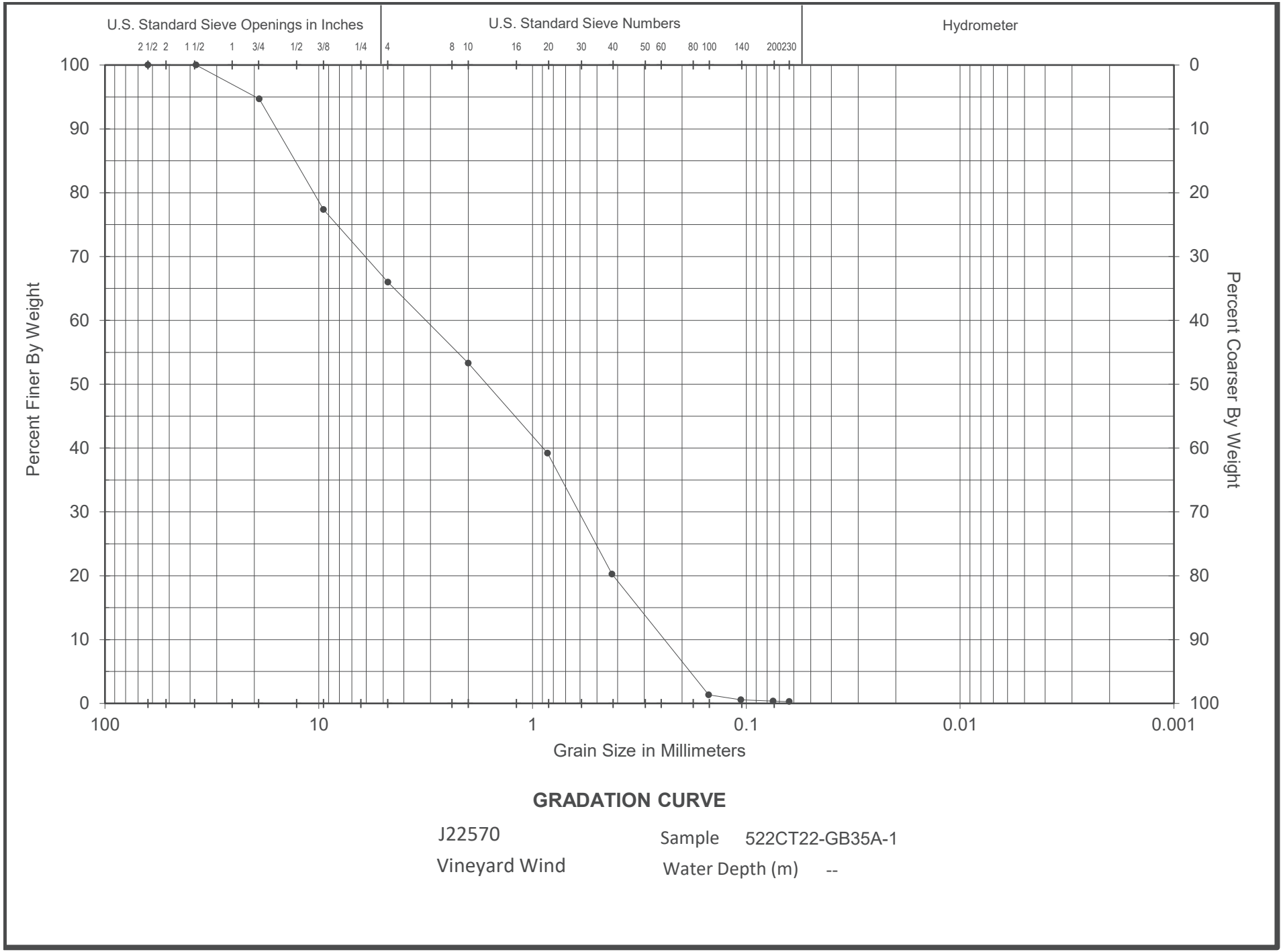
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.70	5.30	
9.5	3/8"	77.37	22.63	
4.75	4	66.00	34.00	
2	10	53.30	46.70	10.13
0.85	20	39.21	60.79	
0.425	40	20.24	79.76	
0.15	100	1.35	98.65	
0.106	140	0.55	99.45	
0.075	200	0.38	99.62	
0.063	230	0.28	99.72	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	53.30
% Passing #230	0.28
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	41.97
% Gravel-Sized Shell	> 2.00 mm	4.73
% Sand	0.0625 - 2.00 mm	53.02
% Silt and Clay	< 0.0625 mm	0.28
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	26.78
% Medium Sand	0.25 - 0.50 mm	18.97
% Fine Sand	0.0625 - 0.25 mm	19.96

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.24	0.425	1.35	0.150	0.242
D30	30	39.21	0.850	20.24	0.425	0.607
D50	50	53.30	2.000	39.21	0.850	1.637
D60	60	66.00	4.750	53.30	2.000	3.157

Uniformity Coefficient (Cu)	13.063
Coefficient of Curvature (Cc)	0.483



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB35A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB35B-1
Water Depth (m)	--

Grain Size Data

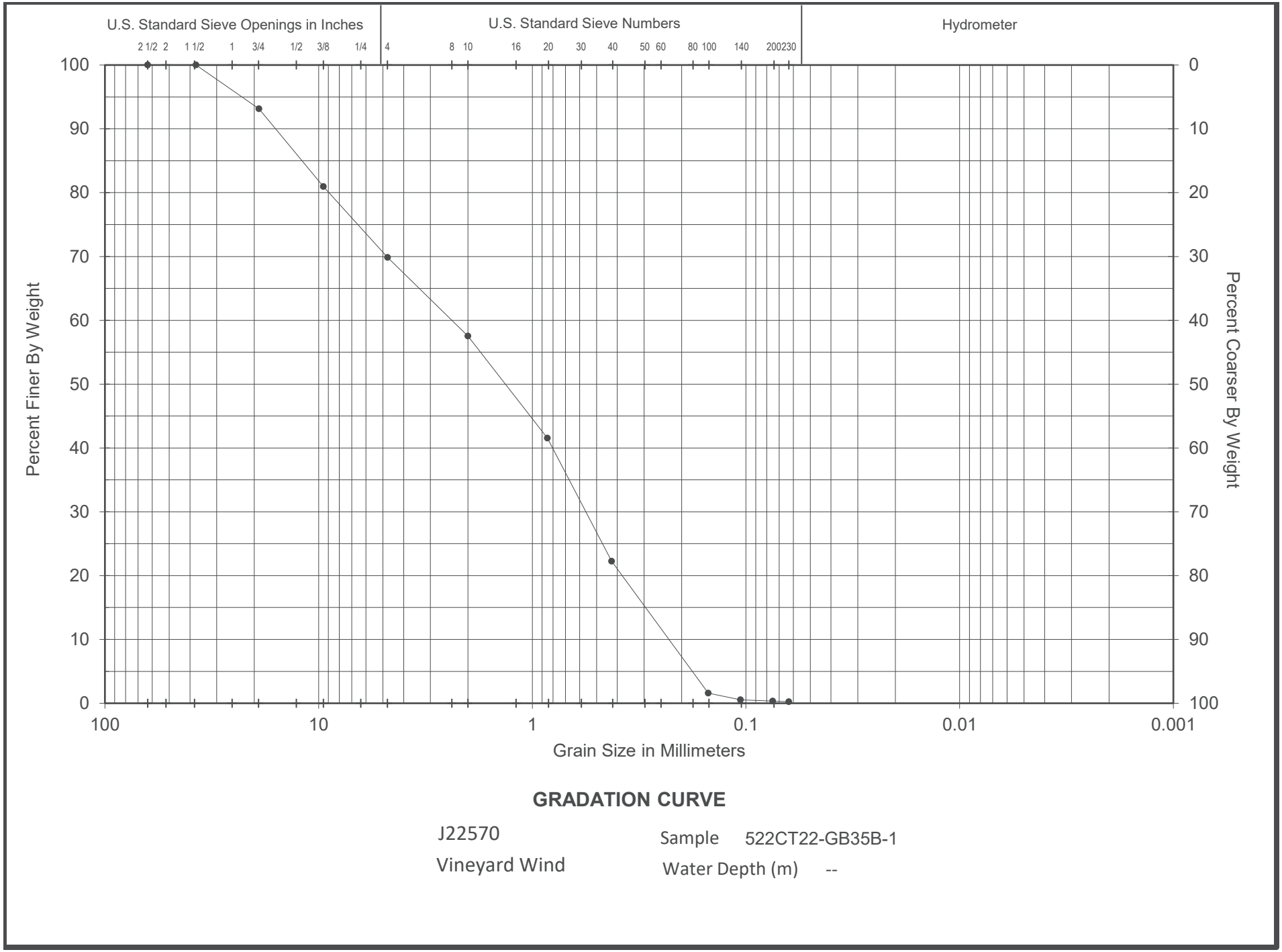
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	93.13	6.87	
9.5	3/8"	80.97	19.03	
4.75	4	69.85	30.15	
2	10	57.54	42.46	14.22
0.85	20	41.54	58.46	
0.425	40	22.27	77.73	
0.15	100	1.58	98.42	
0.106	140	0.55	99.45	
0.075	200	0.35	99.65	
0.063	230	0.26	99.74	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	57.54
% Passing #230	0.26
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	36.42
% Gravel-Sized Shell	> 2.00 mm	6.04
% Sand	0.0625 - 2.00 mm	57.29
% Silt and Clay	< 0.0625 mm	0.26
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.32
% Medium Sand	0.25 - 0.50 mm	19.27
% Fine Sand	0.0625 - 0.25 mm	22.01

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.27	0.425	1.58	0.150	0.229
D30	30	41.54	0.850	22.27	0.425	0.561
D50	50	57.54	2.000	41.54	0.850	1.336
D60	60	69.85	4.750	57.54	2.000	2.377

Uniformity Coefficient (Cu)	10.373
Coefficient of Curvature (Cc)	0.578



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB35B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB35C-2
Water Depth (m)	--

Grain Size Data

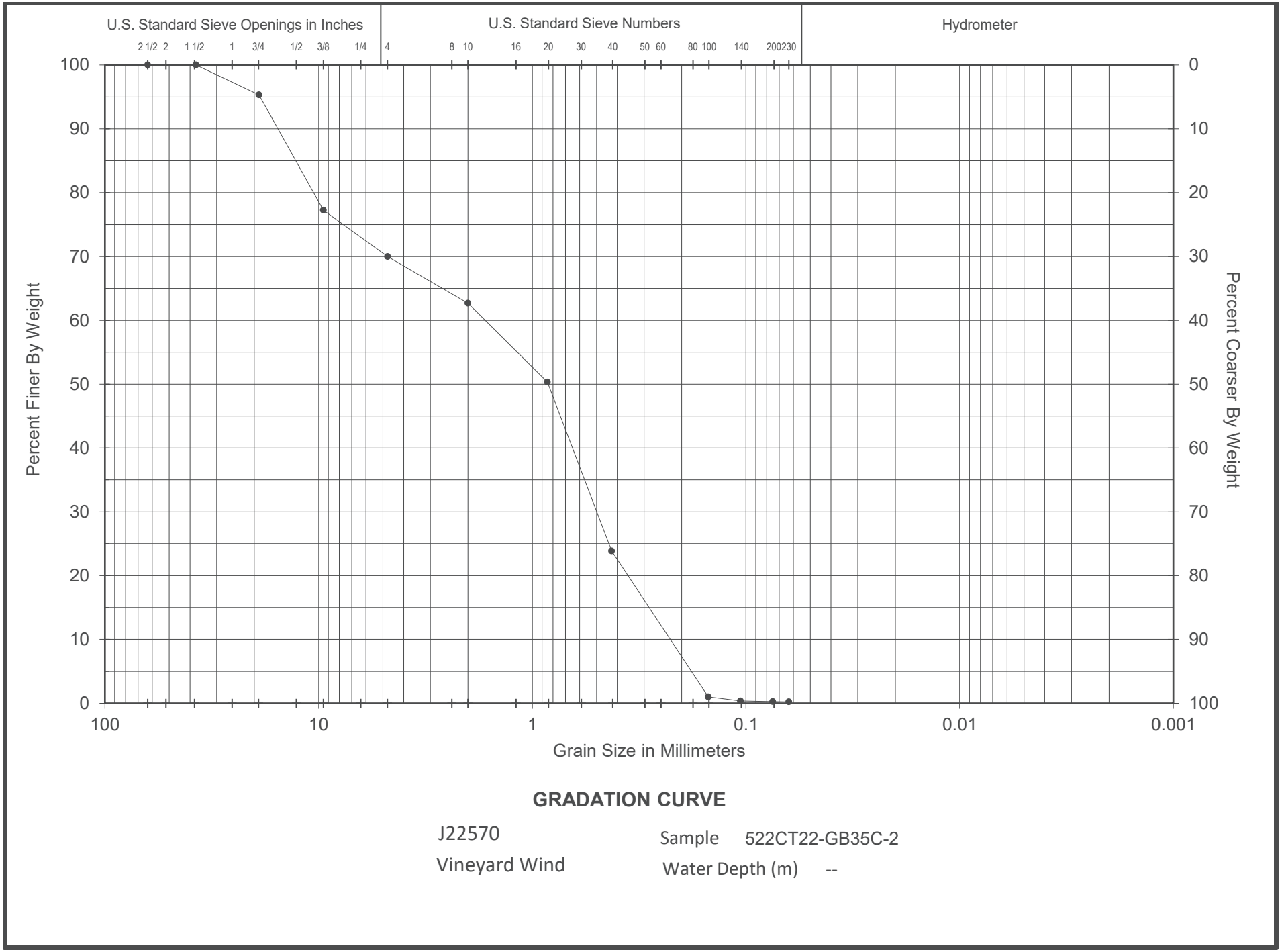
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	95.32	4.68	
9.5	3/8"	77.24	22.76	
4.75	4	69.97	30.03	
2	10	62.68	37.32	34.13
0.85	20	50.31	49.69	
0.425	40	23.86	76.14	
0.15	100	1.02	98.98	
0.106	140	0.38	99.62	
0.075	200	0.27	99.73	
0.063	230	0.23	99.77	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	62.68
% Passing #230	0.23
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	24.58
% Gravel-Sized Shell	> 2.00 mm	12.74
% Sand	0.0625 - 2.00 mm	62.45
% Silt and Clay	< 0.0625 mm	0.23
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	19.66
% Medium Sand	0.25 - 0.50 mm	26.45
% Fine Sand	0.0625 - 0.25 mm	23.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.86	0.425	1.02	0.150	0.226
D30	30	50.31	0.850	23.86	0.425	0.499
D50	50	50.31	0.850	23.86	0.425	0.843
D60	60	62.68	2.000	50.31	0.850	1.662

Uniformity Coefficient (Cu)	7.356
Coefficient of Curvature (Cc)	0.664



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB35C-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB36-1
Water Depth (m)	--

Grain Size Data

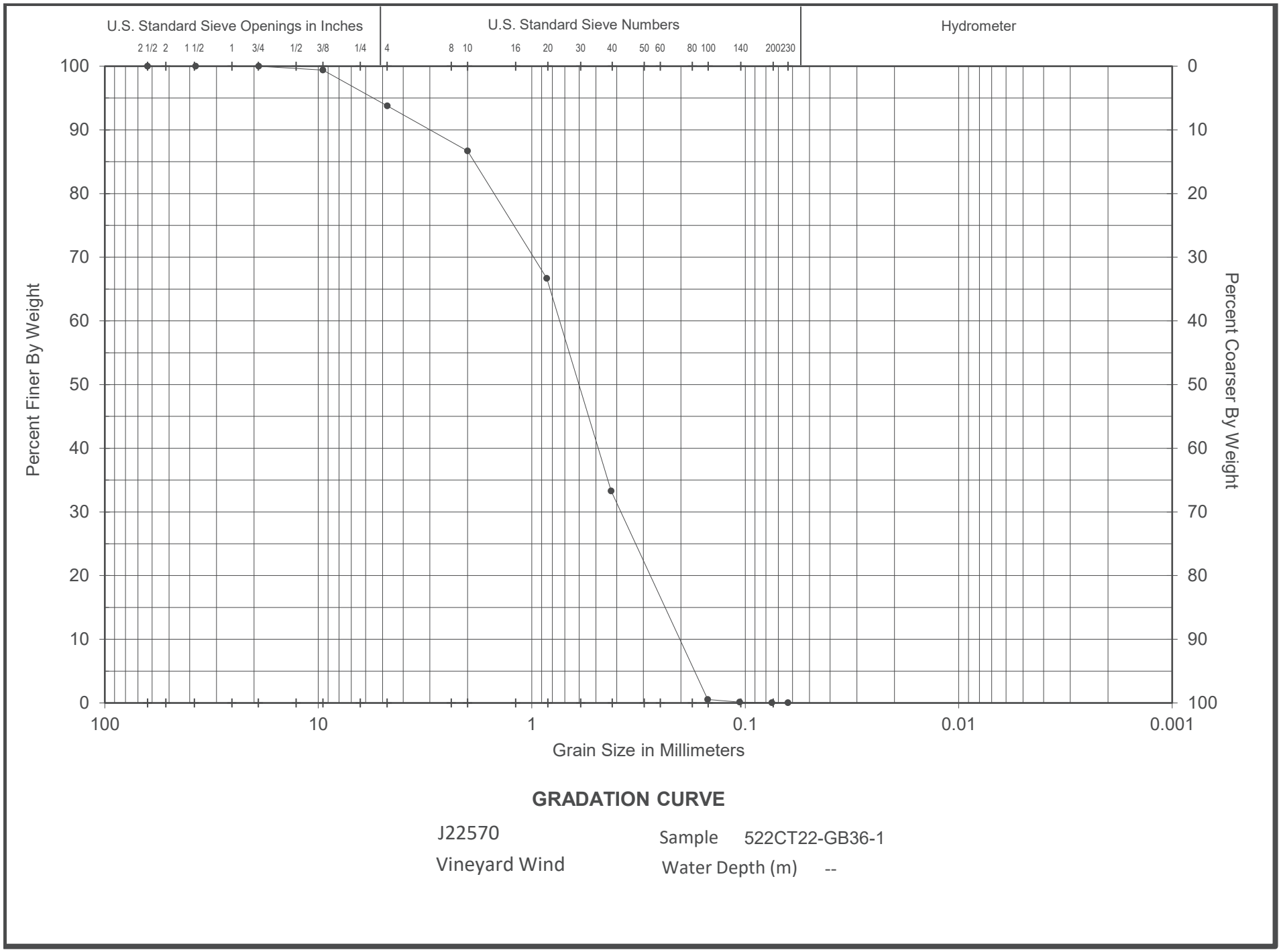
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.40	0.60	
4.75	4	93.77	6.23	
2	10	86.70	13.30	5.94
0.85	20	66.69	33.31	
0.425	40	33.27	66.73	
0.15	100	0.53	99.47	
0.106	140	0.14	99.86	
0.075	200	0.05	99.95	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	86.70
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	12.51
% Gravel-Sized Shell	> 2.00 mm	0.79
% Sand	0.0625 - 2.00 mm	86.68
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.08
% Medium Sand	0.25 - 0.50 mm	33.42
% Fine Sand	0.0625 - 0.25 mm	33.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.27	0.425	0.53	0.150	0.203
D30	30	33.27	0.425	0.53	0.150	0.383
D50	50	66.69	0.850	33.27	0.425	0.601
D60	60	66.69	0.850	33.27	0.425	0.740

Uniformity Coefficient (Cu)	3.650
Coefficient of Curvature (Cc)	0.978



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB36-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB38-1
Water Depth (m)	--

Grain Size Data

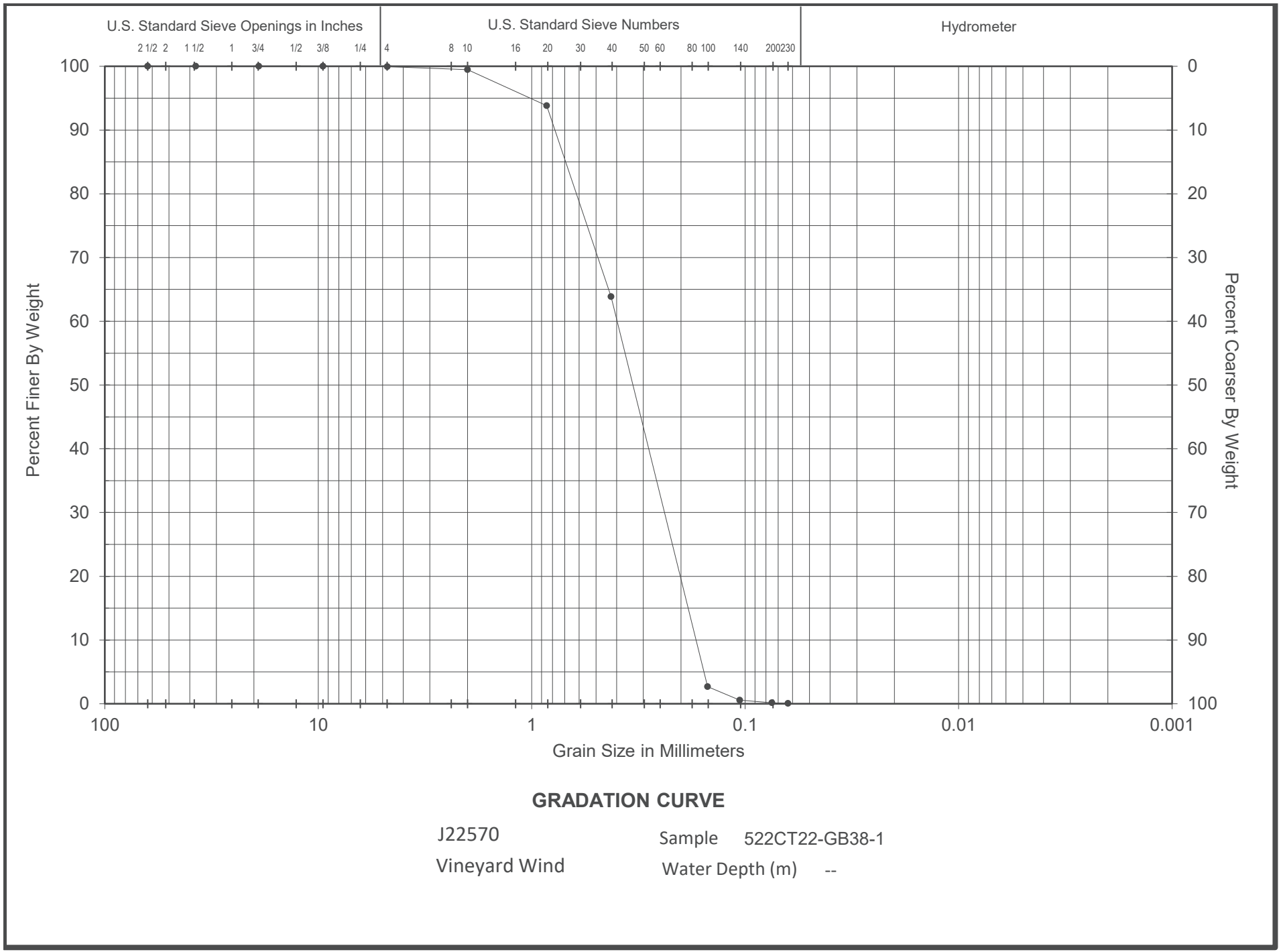
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.96	0.04	
2	10	99.47	0.53	92.86
0.85	20	93.81	6.19	
0.425	40	63.86	36.14	
0.15	100	2.69	97.31	
0.106	140	0.56	99.44	
0.075	200	0.17	99.83	
0.063	230	0.07	99.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.47
% Passing #230	0.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.49
% Sand	0.0625 - 2.00 mm	99.40
% Silt and Clay	< 0.0625 mm	0.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.15
% Medium Sand	0.25 - 0.50 mm	29.95
% Fine Sand	0.0625 - 0.25 mm	63.79

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	63.86	0.425	2.69	0.150	0.170
D30	30	63.86	0.425	2.69	0.150	0.239
D50	50	63.86	0.425	2.69	0.150	0.336
D60	60	63.86	0.425	2.69	0.150	0.398

Uniformity Coefficient (Cu)	2.343
Coefficient of Curvature (Cc)	0.843



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB38-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB39A-1
Water Depth (m)	--

Grain Size Data

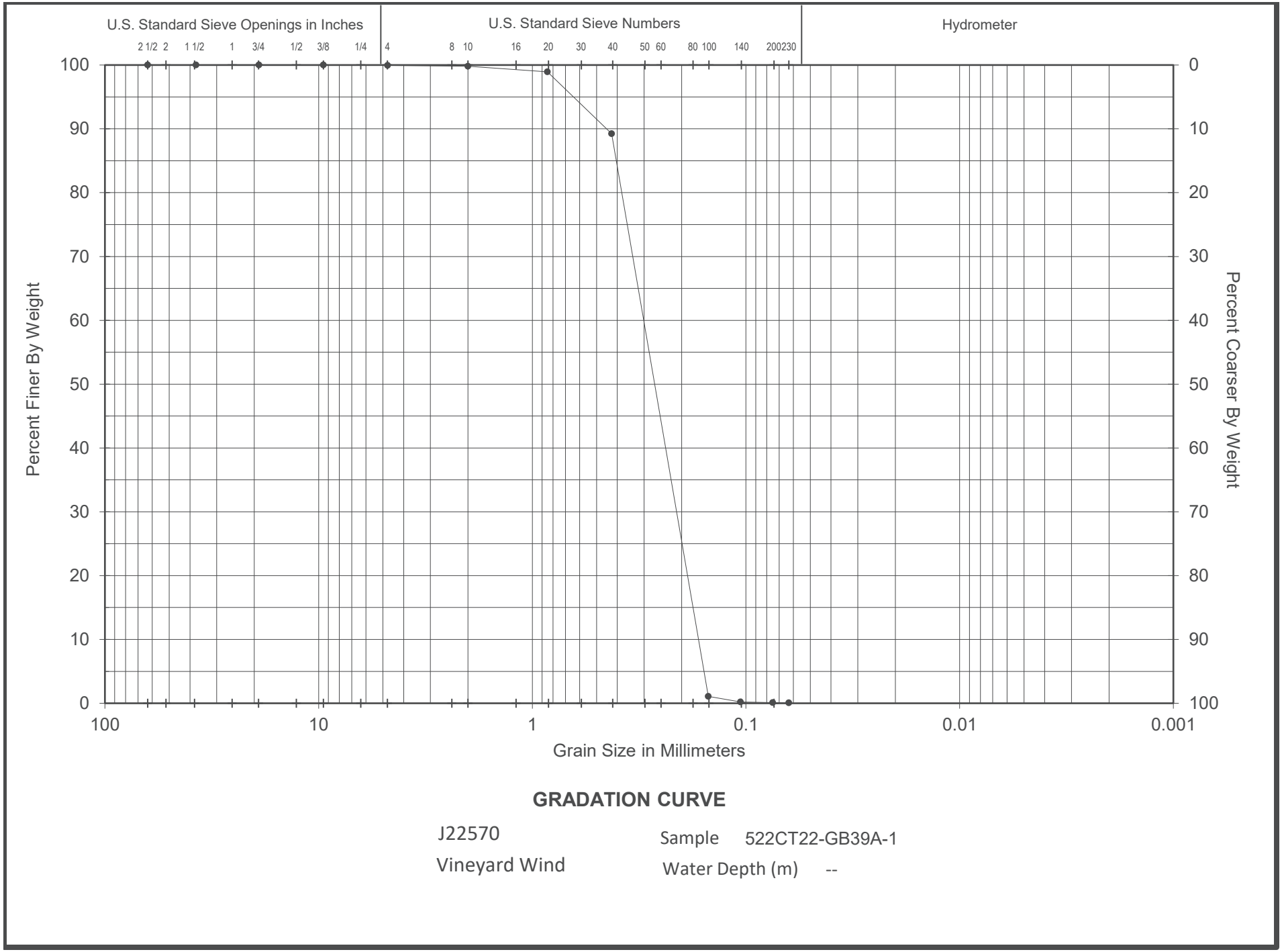
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.94	0.06	
2	10	99.81	0.19	100.00
0.85	20	98.94	1.06	
0.425	40	89.24	10.76	
0.15	100	1.10	98.90	
0.106	140	0.21	99.79	
0.075	200	0.10	99.90	
0.063	230	0.07	99.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.81
% Passing #230	0.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.19
% Sand	0.0625 - 2.00 mm	99.74
% Silt and Clay	< 0.0625 mm	0.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.01
% Medium Sand	0.25 - 0.50 mm	9.70
% Fine Sand	0.0625 - 0.25 mm	89.17

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	89.24	0.425	1.10	0.150	0.167
D30	30	89.24	0.425	1.10	0.150	0.211
D50	50	89.24	0.425	1.10	0.150	0.267
D60	60	89.24	0.425	1.10	0.150	0.301

Uniformity Coefficient (Cu)	1.805
Coefficient of Curvature (Cc)	0.889



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB39A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB39B-1
Water Depth (m)	--

Grain Size Data

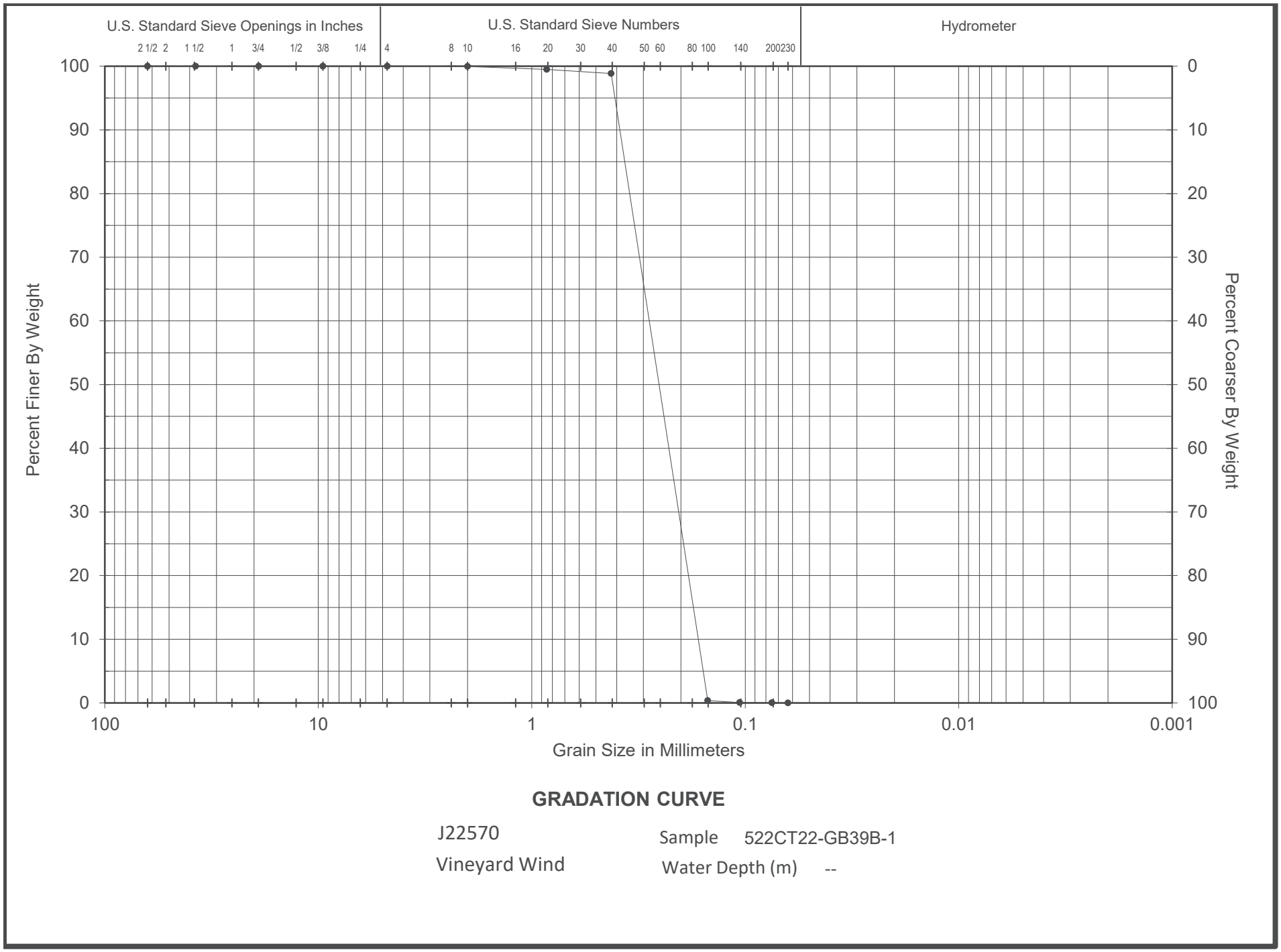
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	100.00
0.85	20	99.49	0.51	
0.425	40	98.84	1.16	
0.15	100	0.36	99.64	
0.106	140	0.08	99.92	
0.075	200	0.02	99.98	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	99.96
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.51
% Medium Sand	0.25 - 0.50 mm	0.65
% Fine Sand	0.0625 - 0.25 mm	98.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	98.84	0.425	0.36	0.150	0.166
D30	30	98.84	0.425	0.36	0.150	0.205
D50	50	98.84	0.425	0.36	0.150	0.254
D60	60	98.84	0.425	0.36	0.150	0.282

Uniformity Coefficient (Cu)	1.697
Coefficient of Curvature (Cc)	0.900



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB39B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB39C-1
Water Depth (m)	--

Grain Size Data

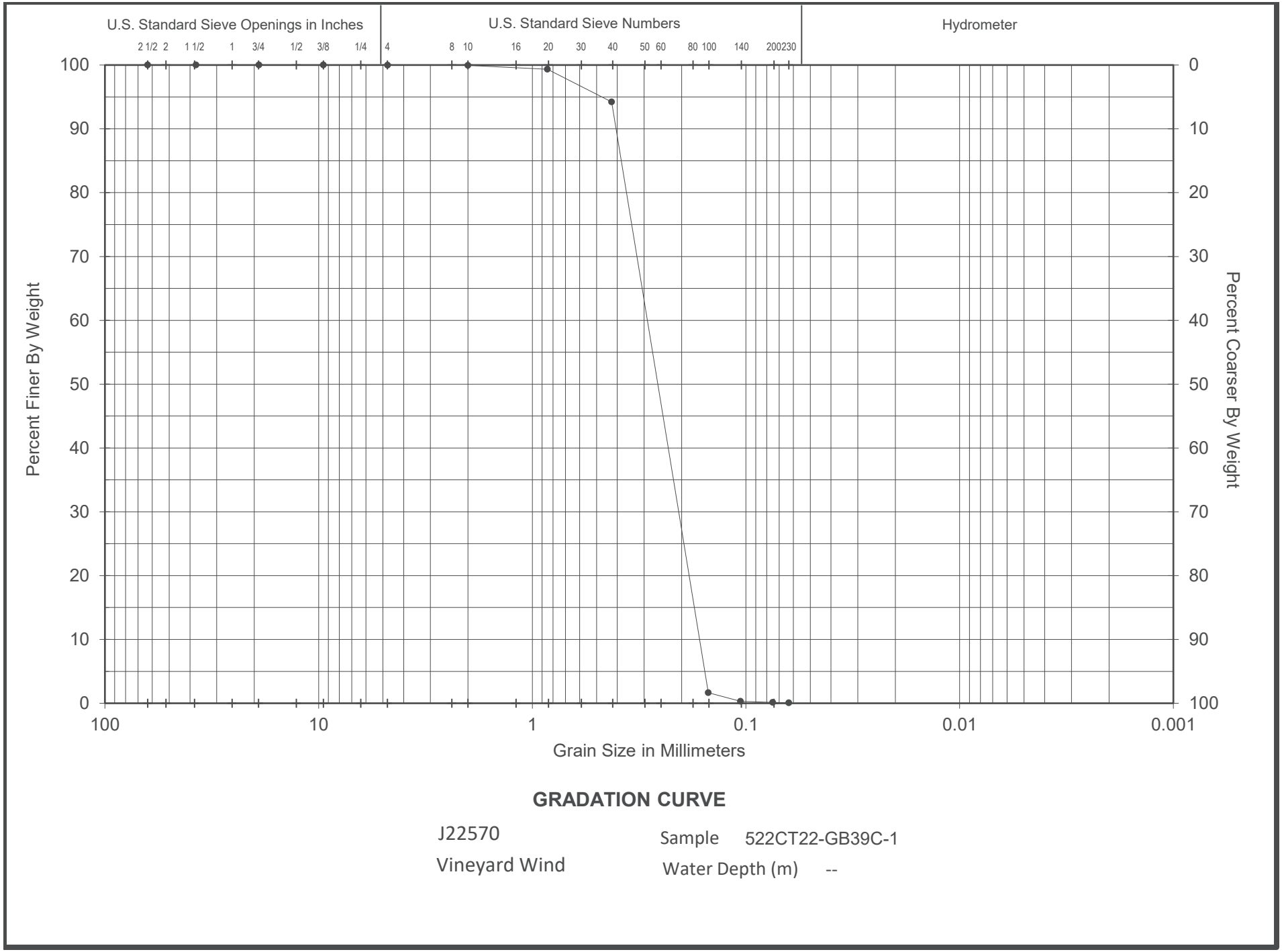
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.98	0.02	
2	10	99.94	0.06	86.00
0.85	20	99.34	0.66	
0.425	40	94.23	5.77	
0.15	100	1.66	98.34	
0.106	140	0.32	99.68	
0.075	200	0.13	99.87	
0.063	230	0.09	99.91	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	0.09
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.01
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	99.85
% Silt and Clay	< 0.0625 mm	0.09
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.64
% Medium Sand	0.25 - 0.50 mm	5.11
% Fine Sand	0.0625 - 0.25 mm	94.15

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	94.23	0.425	1.66	0.150	0.165
D30	30	94.23	0.425	1.66	0.150	0.206
D50	50	94.23	0.425	1.66	0.150	0.258
D60	60	94.23	0.425	1.66	0.150	0.289

Uniformity Coefficient (Cu)	1.755
Coefficient of Curvature (Cc)	0.894



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB39C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB40-1
Water Depth (m)	--

Grain Size Data

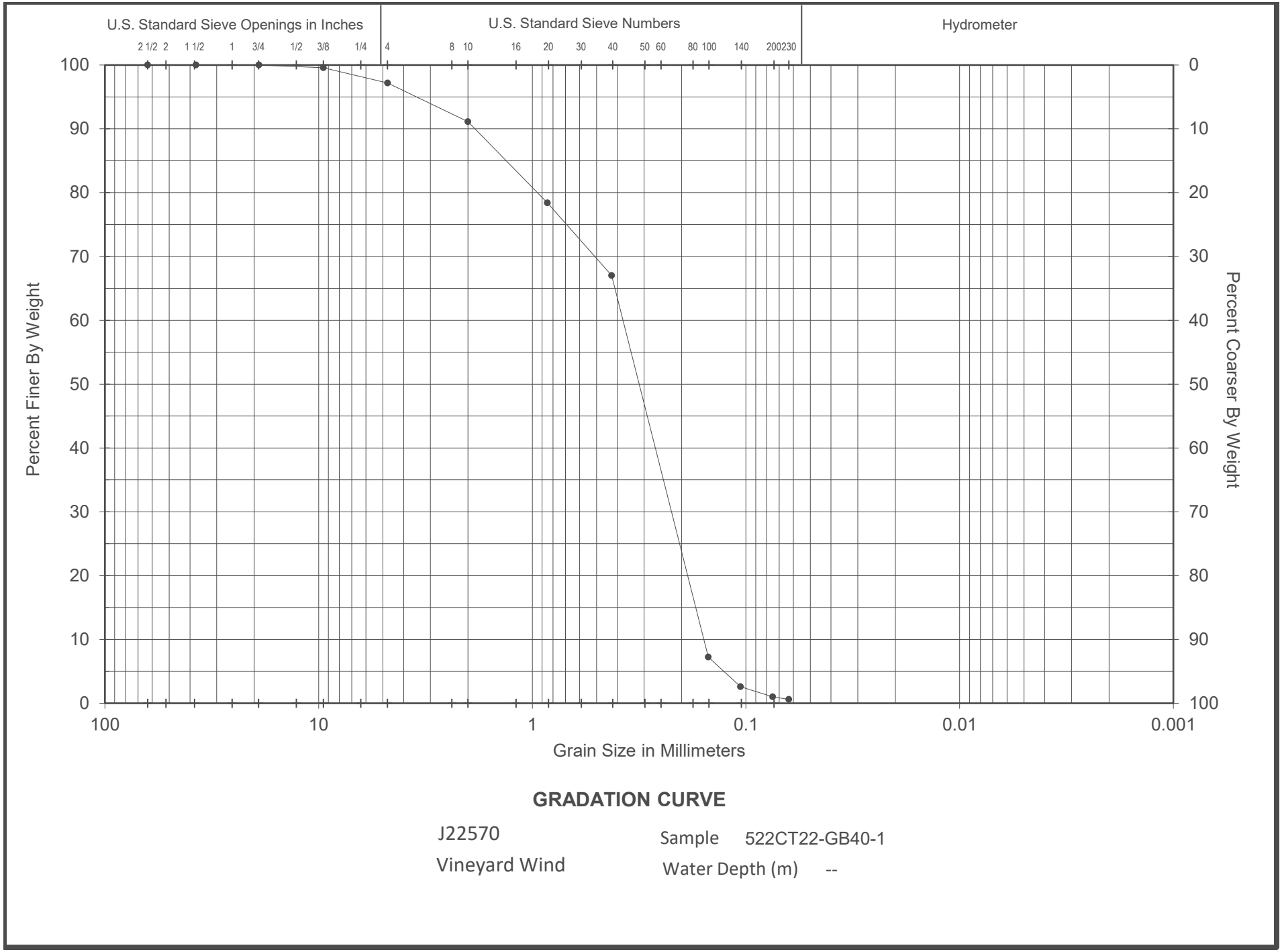
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.57	0.43	
4.75	4	97.19	2.81	
2	10	91.12	8.88	22.93
0.85	20	78.40	21.60	
0.425	40	67.03	32.97	
0.15	100	7.23	92.77	
0.106	140	2.59	97.41	
0.075	200	1.02	98.98	
0.063	230	0.60	99.40	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	91.12
% Passing #230	0.60
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	6.84
% Gravel-Sized Shell	> 2.00 mm	2.04
% Sand	0.0625 - 2.00 mm	90.52
% Silt and Clay	< 0.0625 mm	0.60
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	18.79
% Medium Sand	0.25 - 0.50 mm	11.37
% Fine Sand	0.0625 - 0.25 mm	66.43

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	67.03	0.425	7.23	0.150	0.157
D30	30	67.03	0.425	7.23	0.150	0.223
D50	50	67.03	0.425	7.23	0.150	0.316
D60	60	67.03	0.425	7.23	0.150	0.376

Uniformity Coefficient (Cu)	2.389
Coefficient of Curvature (Cc)	0.840



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB40-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB41A-1
Water Depth (m)	--

Grain Size Data

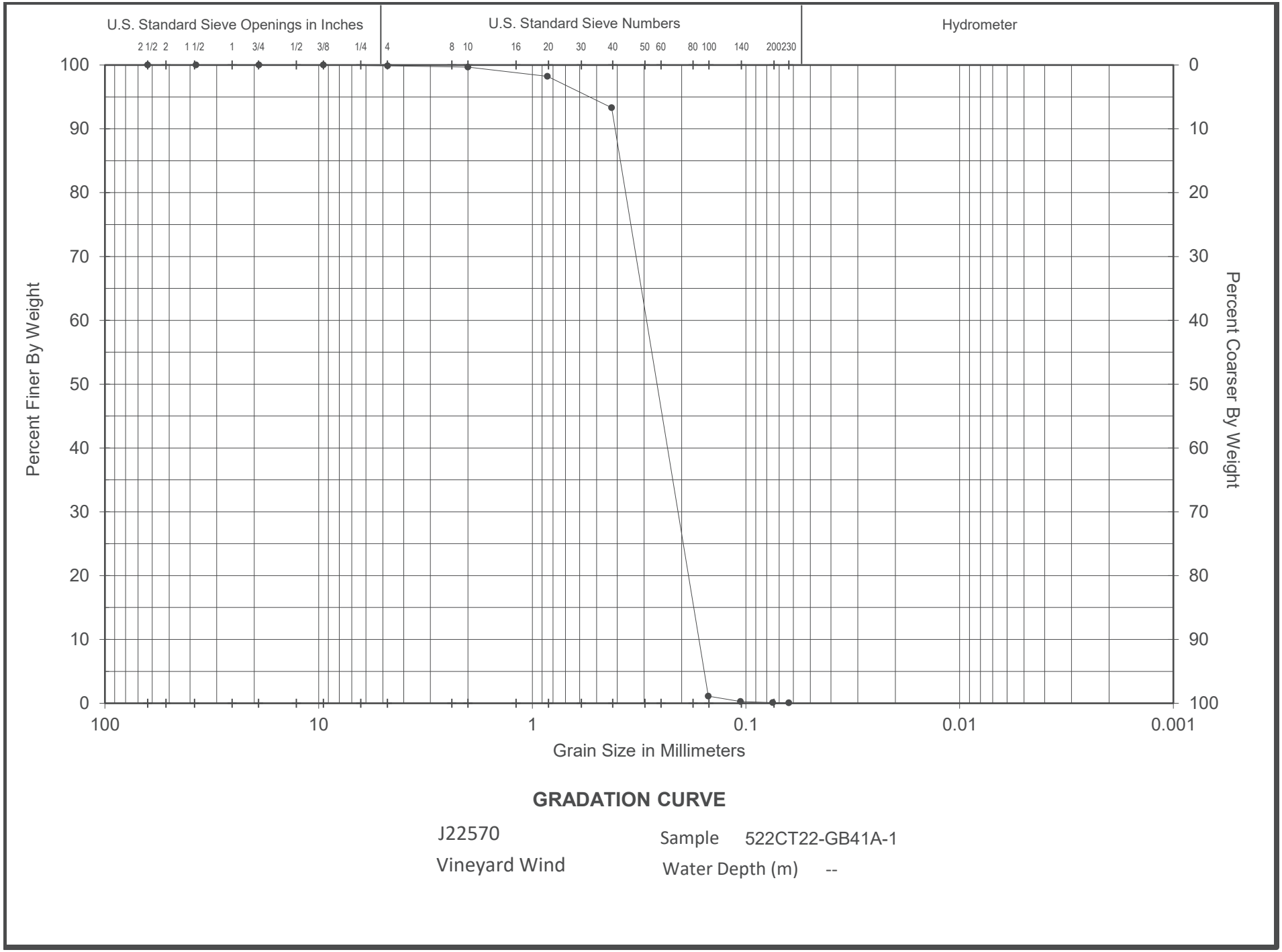
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.89	0.11	
2	10	99.67	0.33	86.85
0.85	20	98.24	1.76	
0.425	40	93.32	6.68	
0.15	100	1.11	98.89	
0.106	140	0.27	99.73	
0.075	200	0.11	99.89	
0.063	230	0.08	99.92	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.67
% Passing #230	0.08
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.04
% Gravel-Sized Shell	> 2.00 mm	0.29
% Sand	0.0625 - 2.00 mm	99.59
% Silt and Clay	< 0.0625 mm	0.08
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.65
% Medium Sand	0.25 - 0.50 mm	4.92
% Fine Sand	0.0625 - 0.25 mm	93.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	93.32	0.425	1.11	0.150	0.166
D30	30	93.32	0.425	1.11	0.150	0.208
D50	50	93.32	0.425	1.11	0.150	0.261
D60	60	93.32	0.425	1.11	0.150	0.292

Uniformity Coefficient (Cu)	1.759
Coefficient of Curvature (Cc)	0.893



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB41A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB41B-1
Water Depth (m)	--

Grain Size Data

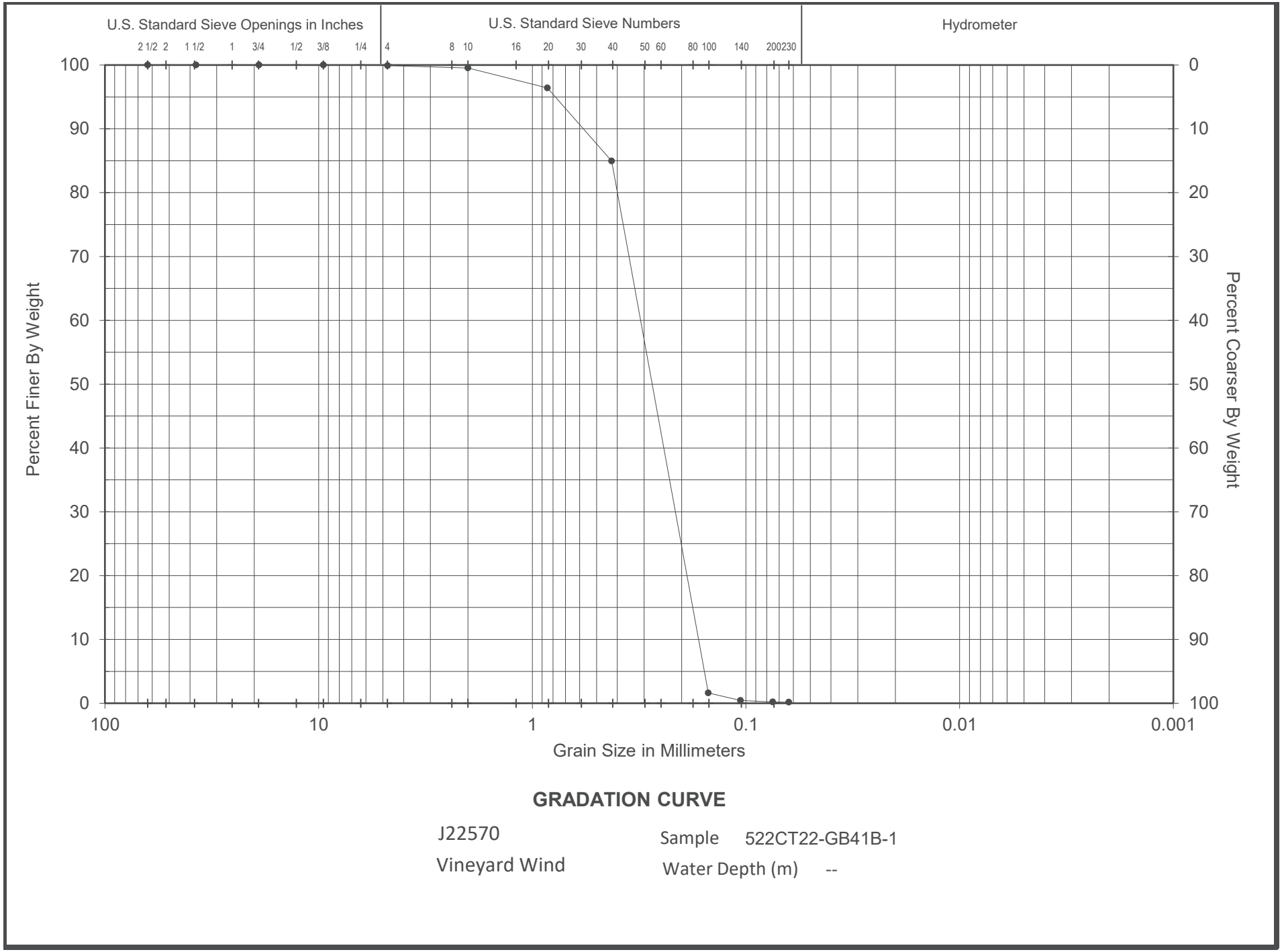
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.92	0.08	
2	10	99.54	0.46	83.65
0.85	20	96.41	3.59	
0.425	40	84.97	15.03	
0.15	100	1.63	98.37	
0.106	140	0.43	99.57	
0.075	200	0.21	99.79	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.54
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.08
% Gravel-Sized Shell	> 2.00 mm	0.39
% Sand	0.0625 - 2.00 mm	99.37
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.51
% Medium Sand	0.25 - 0.50 mm	11.44
% Fine Sand	0.0625 - 0.25 mm	84.80

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	84.97	0.425	1.63	0.150	0.167
D30	30	84.97	0.425	1.63	0.150	0.214
D50	50	84.97	0.425	1.63	0.150	0.275
D60	60	84.97	0.425	1.63	0.150	0.311

Uniformity Coefficient (Cu)	1.868
Coefficient of Curvature (Cc)	0.883



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB41B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB41C-1
Water Depth (m)	--

Grain Size Data

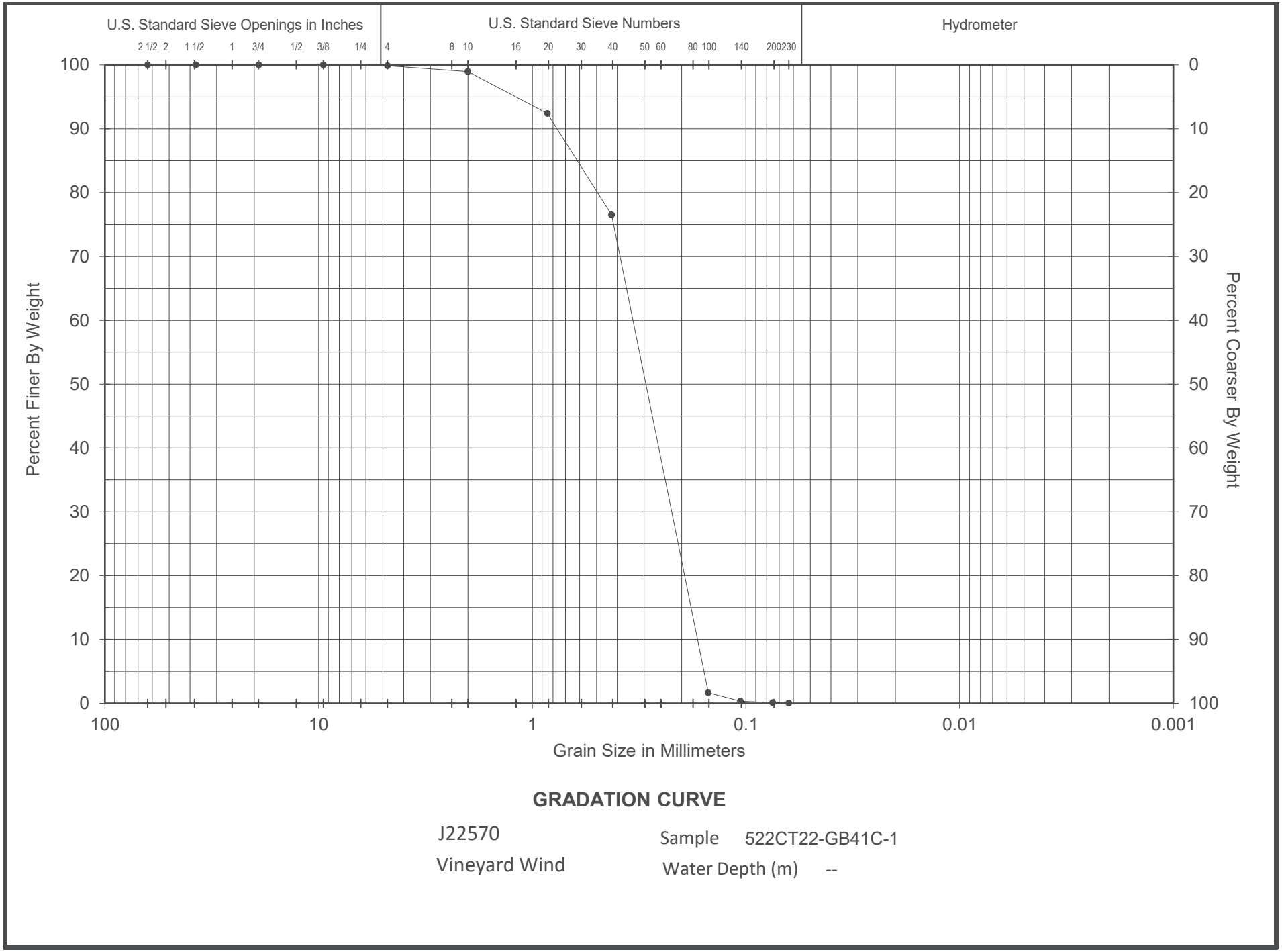
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.89	0.11	
2	10	98.97	1.03	46.31
0.85	20	92.40	7.60	
0.425	40	76.52	23.48	
0.15	100	1.67	98.33	
0.106	140	0.34	99.66	
0.075	200	0.09	99.91	
0.063	230	0.05	99.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.97
% Passing #230	0.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.55
% Gravel-Sized Shell	> 2.00 mm	0.48
% Sand	0.0625 - 2.00 mm	98.91
% Silt and Clay	< 0.0625 mm	0.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.49
% Medium Sand	0.25 - 0.50 mm	15.88
% Fine Sand	0.0625 - 0.25 mm	76.47

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	76.52	0.425	1.67	0.150	0.168
D30	30	76.52	0.425	1.67	0.150	0.222
D50	50	76.52	0.425	1.67	0.150	0.294
D60	60	76.52	0.425	1.67	0.150	0.338

Uniformity Coefficient (Cu)	2.005
Coefficient of Curvature (Cc)	0.870



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB41C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB42-1
Water Depth (m)	--

Grain Size Data

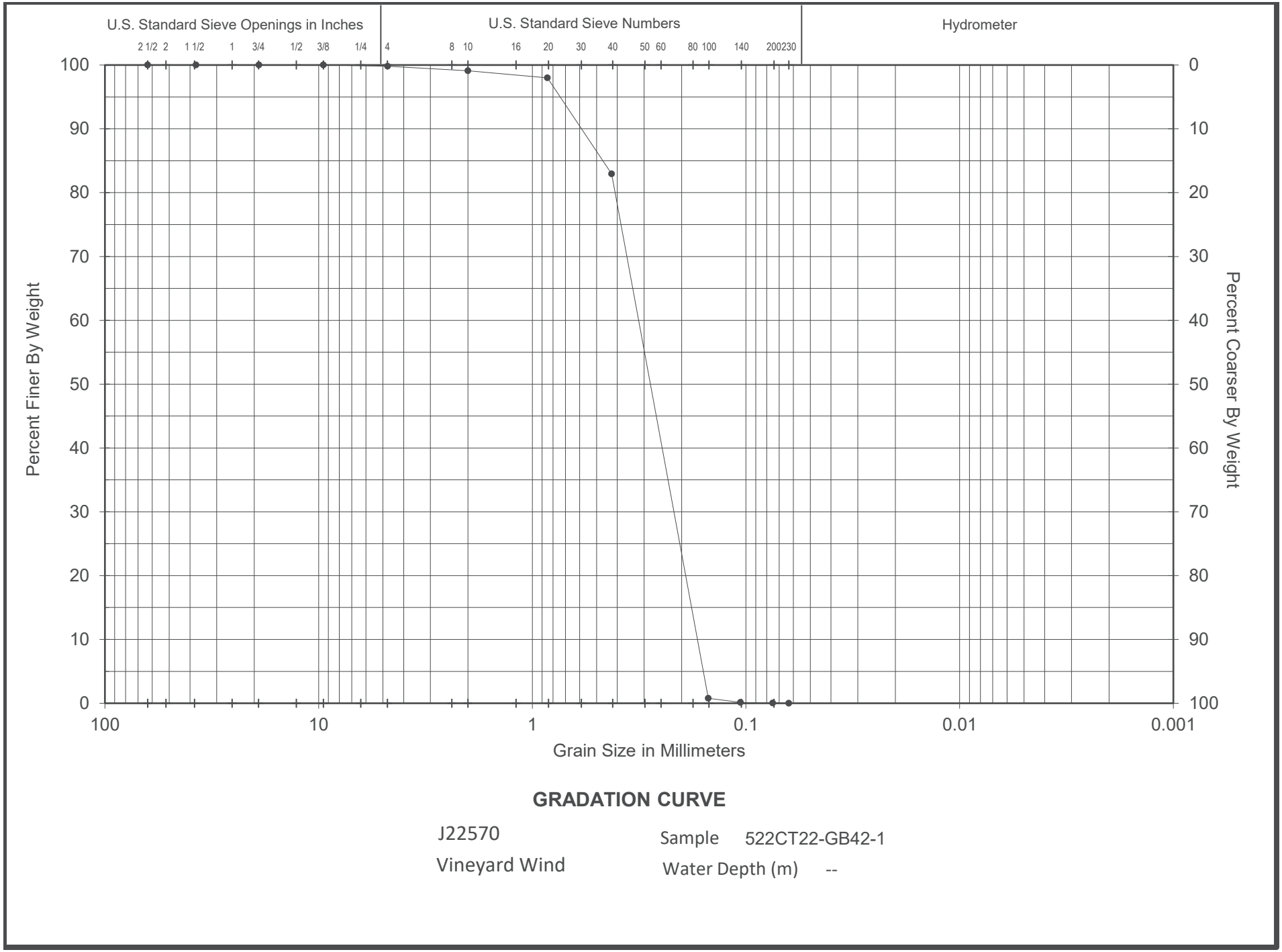
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.80	0.20	
2	10	99.12	0.88	100.00
0.85	20	98.00	2.00	
0.425	40	82.95	17.05	
0.15	100	0.78	99.22	
0.106	140	0.13	99.87	
0.075	200	0.03	99.97	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.12
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.88
% Sand	0.0625 - 2.00 mm	99.11
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.80
% Medium Sand	0.25 - 0.50 mm	15.05
% Fine Sand	0.0625 - 0.25 mm	82.93

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	82.95	0.425	0.78	0.150	0.169
D30	30	82.95	0.425	0.78	0.150	0.217
D50	50	82.95	0.425	0.78	0.150	0.280
D60	60	82.95	0.425	0.78	0.150	0.318

Uniformity Coefficient (Cu)	1.885
Coefficient of Curvature (Cc)	0.881



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB42-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB43A-1
Water Depth (m)	--

Grain Size Data

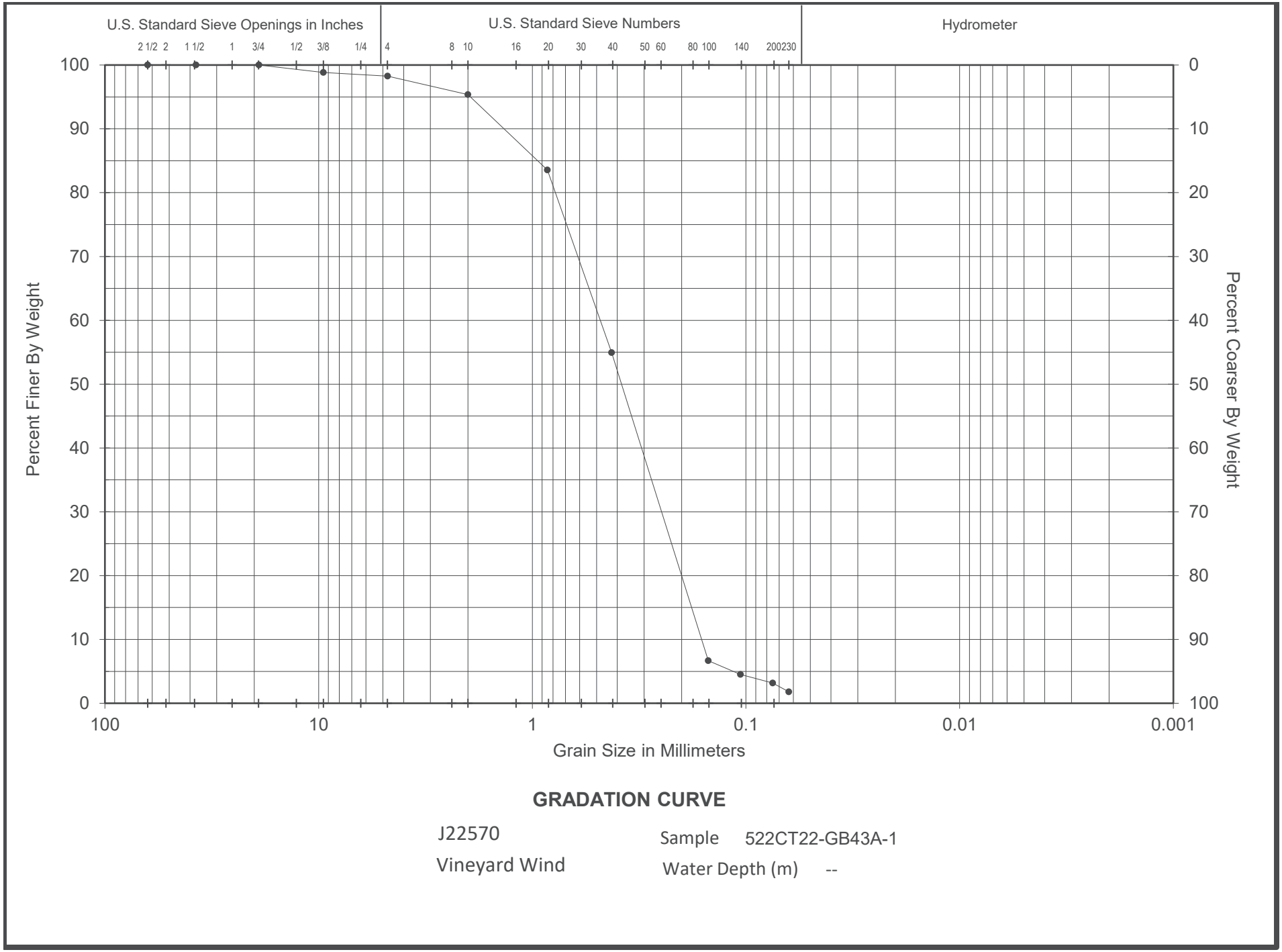
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.83	1.17	
4.75	4	98.27	1.73	
2	10	95.38	4.62	6.26
0.85	20	83.55	16.45	
0.425	40	54.95	45.05	
0.15	100	6.69	93.31	
0.106	140	4.51	95.49	
0.075	200	3.15	96.85	
0.063	230	1.80	98.20	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.38
% Passing #230	1.80
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.33
% Gravel-Sized Shell	> 2.00 mm	0.29
% Sand	0.0625 - 2.00 mm	93.58
% Silt and Clay	< 0.0625 mm	1.80
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.73
% Medium Sand	0.25 - 0.50 mm	28.60
% Fine Sand	0.0625 - 0.25 mm	53.15

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	54.95	0.425	6.69	0.150	0.161
D30	30	54.95	0.425	6.69	0.150	0.248
D50	50	54.95	0.425	6.69	0.150	0.382
D60	60	83.55	0.850	54.95	0.425	0.480

Uniformity Coefficient (Cu)	2.981
Coefficient of Curvature (Cc)	0.795



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB43A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB43B-1
Water Depth (m)	--

Grain Size Data

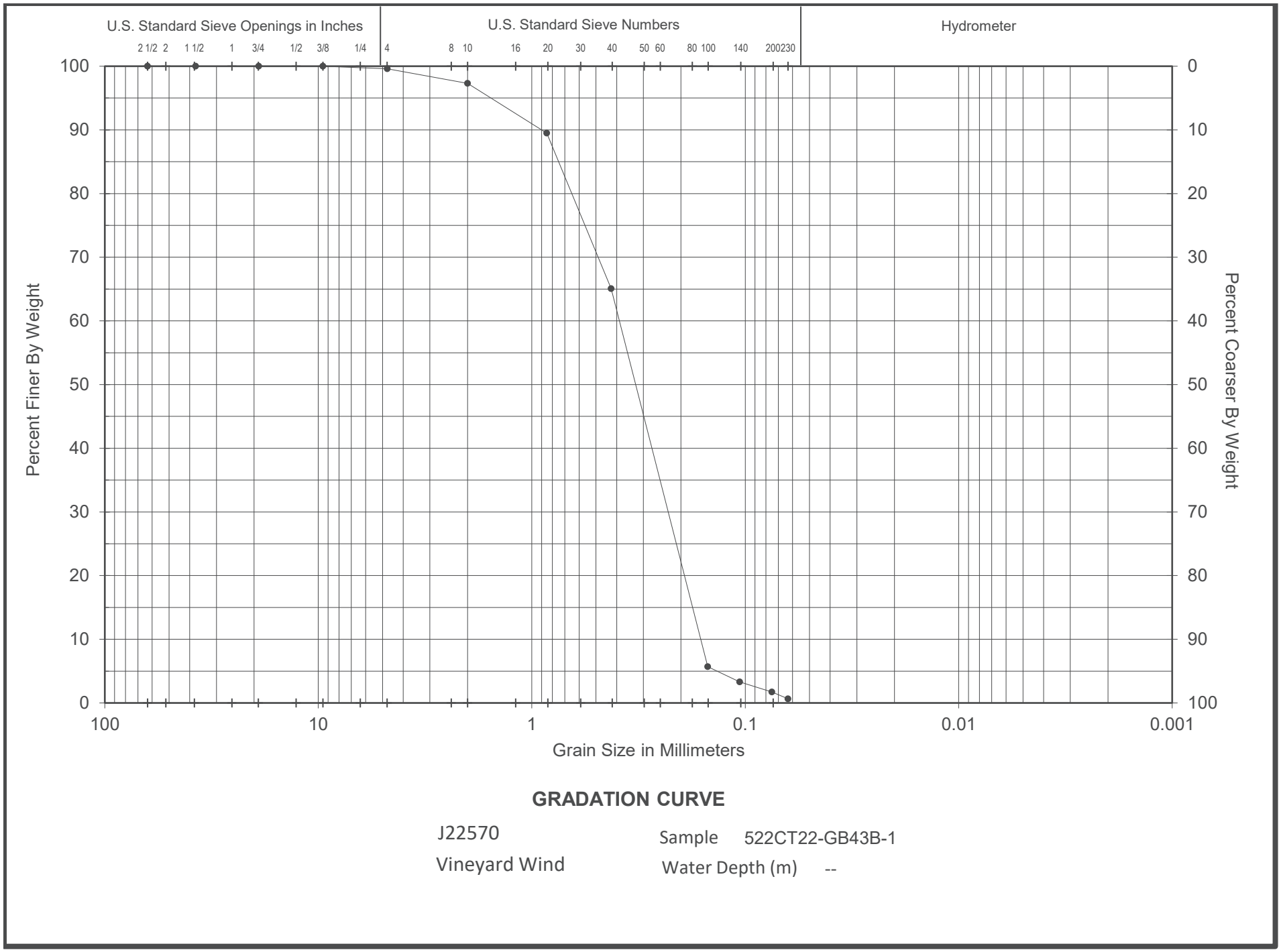
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.61	0.39	
2	10	97.30	2.70	22.91
0.85	20	89.48	10.52	
0.425	40	65.08	34.92	
0.15	100	5.70	94.30	
0.106	140	3.31	96.69	
0.075	200	1.72	98.28	
0.063	230	0.65	99.35	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.30
% Passing #230	0.65
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.08
% Gravel-Sized Shell	> 2.00 mm	0.62
% Sand	0.0625 - 2.00 mm	96.65
% Silt and Clay	< 0.0625 mm	0.65
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.13
% Medium Sand	0.25 - 0.50 mm	24.40
% Fine Sand	0.0625 - 0.25 mm	64.43

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	65.08	0.425	5.70	0.150	0.162
D30	30	65.08	0.425	5.70	0.150	0.230
D50	50	65.08	0.425	5.70	0.150	0.326
D60	60	65.08	0.425	5.70	0.150	0.389

Uniformity Coefficient (Cu)	2.404
Coefficient of Curvature (Cc)	0.839



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB43B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB43C-1
Water Depth (m)	--

Grain Size Data

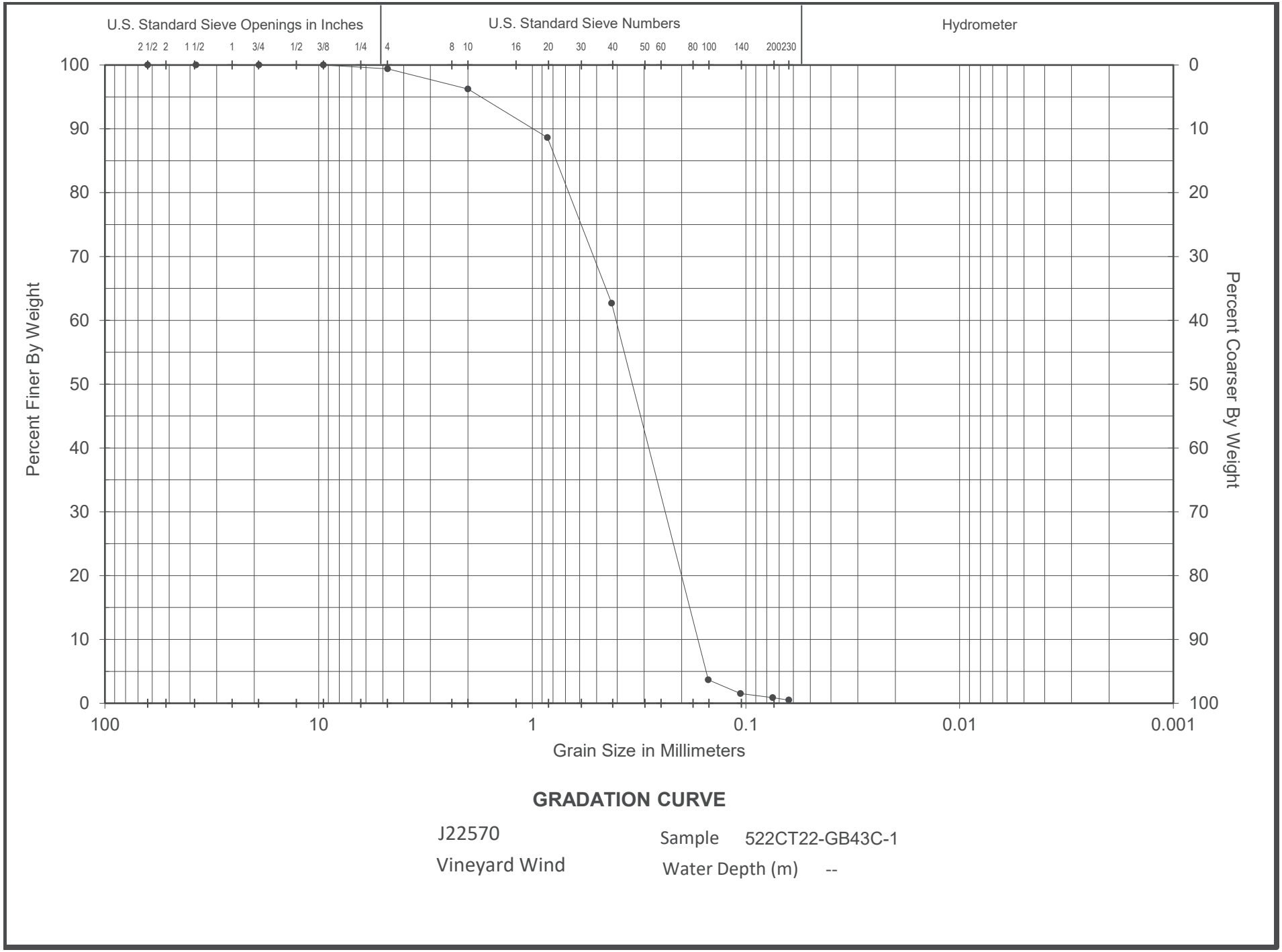
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.42	0.58	
2	10	96.24	3.76	19.23
0.85	20	88.63	11.37	
0.425	40	62.68	37.32	
0.15	100	3.67	96.33	
0.106	140	1.51	98.49	
0.075	200	0.88	99.12	
0.063	230	0.49	99.51	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.24
% Passing #230	0.49
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	3.04
% Gravel-Sized Shell	> 2.00 mm	0.72
% Sand	0.0625 - 2.00 mm	95.75
% Silt and Clay	< 0.0625 mm	0.49
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.79
% Medium Sand	0.25 - 0.50 mm	25.95
% Fine Sand	0.0625 - 0.25 mm	62.19

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	62.68	0.425	3.67	0.150	0.168
D30	30	62.68	0.425	3.67	0.150	0.239
D50	50	62.68	0.425	3.67	0.150	0.340
D60	60	62.68	0.425	3.67	0.150	0.405

Uniformity Coefficient (Cu)	2.417
Coefficient of Curvature (Cc)	0.838



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB43C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB44-1
Water Depth (m)	--

Grain Size Data

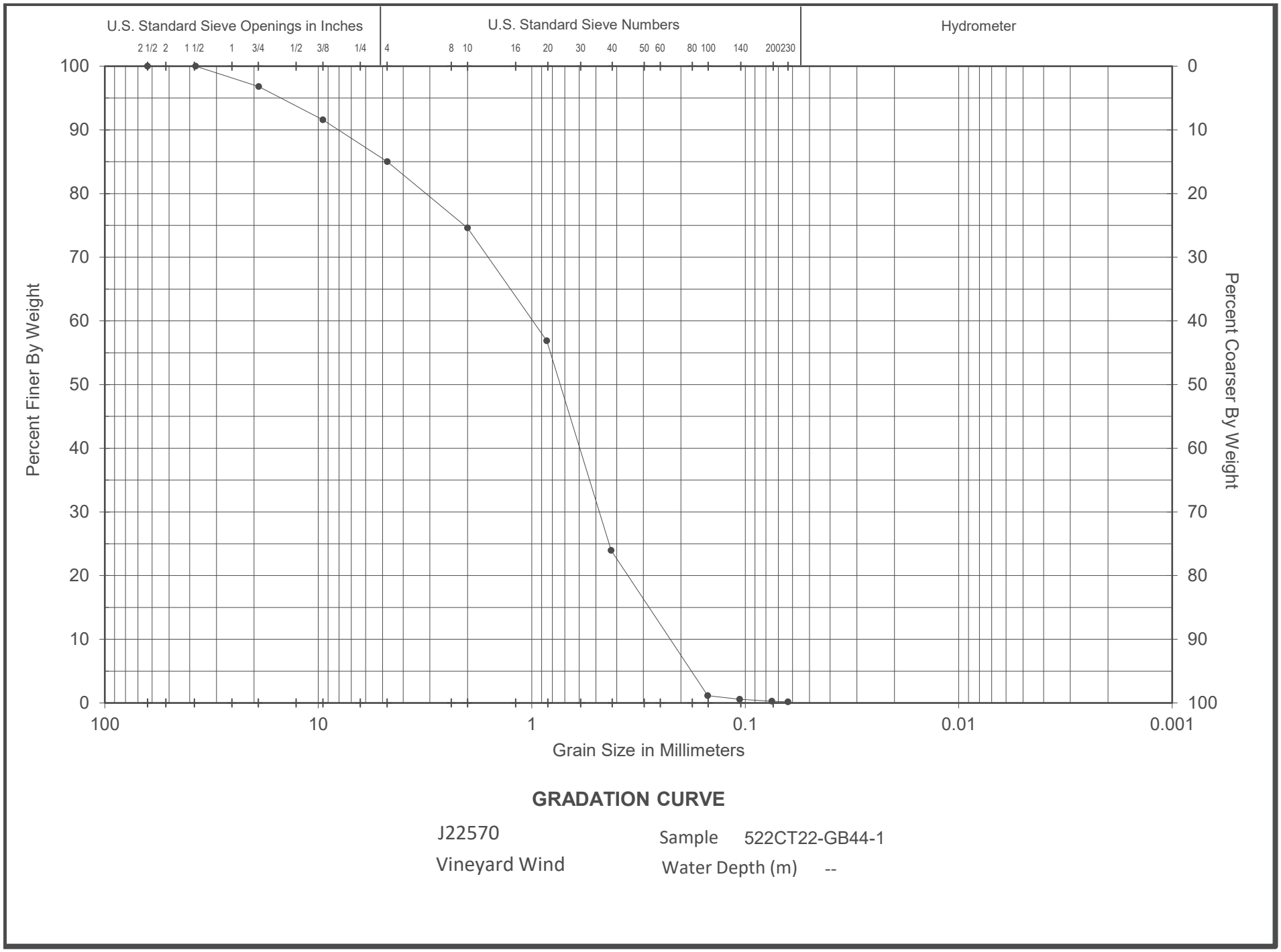
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	96.79	3.21	
9.5	3/8"	91.59	8.41	
4.75	4	85.00	15.00	
2	10	74.61	25.39	20.98
0.85	20	56.89	43.11	
0.425	40	23.97	76.03	
0.15	100	1.15	98.85	
0.106	140	0.57	99.43	
0.075	200	0.29	99.71	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	74.61
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	20.06
% Gravel-Sized Shell	> 2.00 mm	5.33
% Sand	0.0625 - 2.00 mm	74.44
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.11
% Medium Sand	0.25 - 0.50 mm	32.92
% Fine Sand	0.0625 - 0.25 mm	23.80

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.97	0.425	1.15	0.150	0.225
D30	30	56.89	0.850	23.97	0.425	0.483
D50	50	56.89	0.850	23.97	0.425	0.735
D60	60	74.61	2.000	56.89	0.850	0.988

Uniformity Coefficient (Cu)	4.397
Coefficient of Curvature (Cc)	1.049



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB44-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB45A-1
Water Depth (m)	--

Grain Size Data

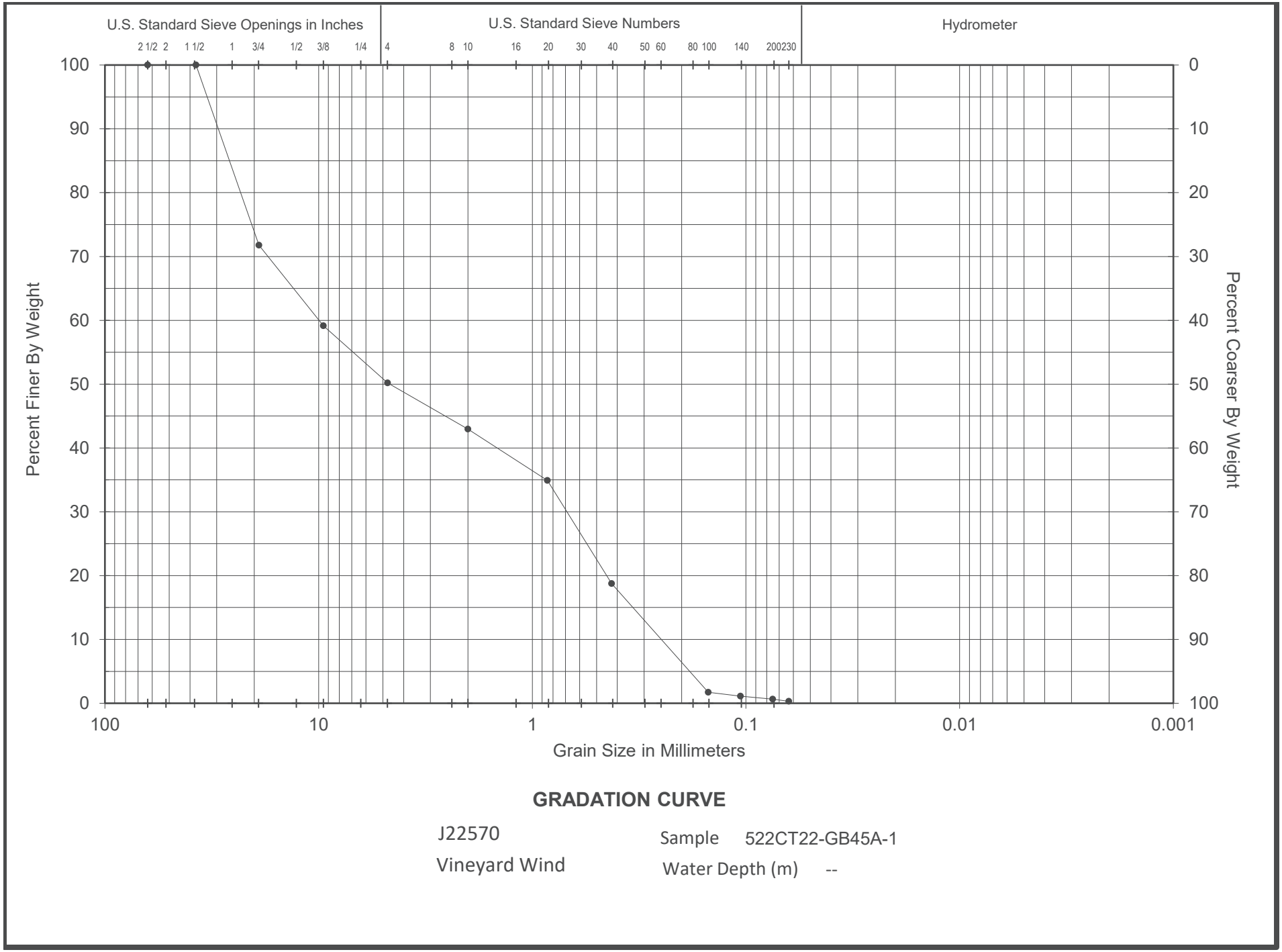
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	71.78	28.22	
9.5	3/8"	59.13	40.87	
4.75	4	50.18	49.82	
2	10	42.96	57.04	4.10
0.85	20	34.90	65.10	
0.425	40	18.76	81.24	
0.15	100	1.74	98.26	
0.106	140	1.13	98.87	
0.075	200	0.64	99.36	
0.063	230	0.30	99.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	42.96
% Passing #230	0.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	54.70
% Gravel-Sized Shell	> 2.00 mm	2.34
% Sand	0.0625 - 2.00 mm	42.65
% Silt and Clay	< 0.0625 mm	0.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	15.28
% Medium Sand	0.25 - 0.50 mm	16.14
% Fine Sand	0.0625 - 0.25 mm	18.46

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.76	0.425	1.74	0.150	0.249
D30	30	34.90	0.850	18.76	0.425	0.689
D50	50	50.18	4.750	42.96	2.000	4.649
D60	60	71.78	19.000	59.13	9.500	9.964

Uniformity Coefficient (Cu)	40.069
Coefficient of Curvature (Cc)	0.191



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB45A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB45B-1
Water Depth (m)	--

Grain Size Data

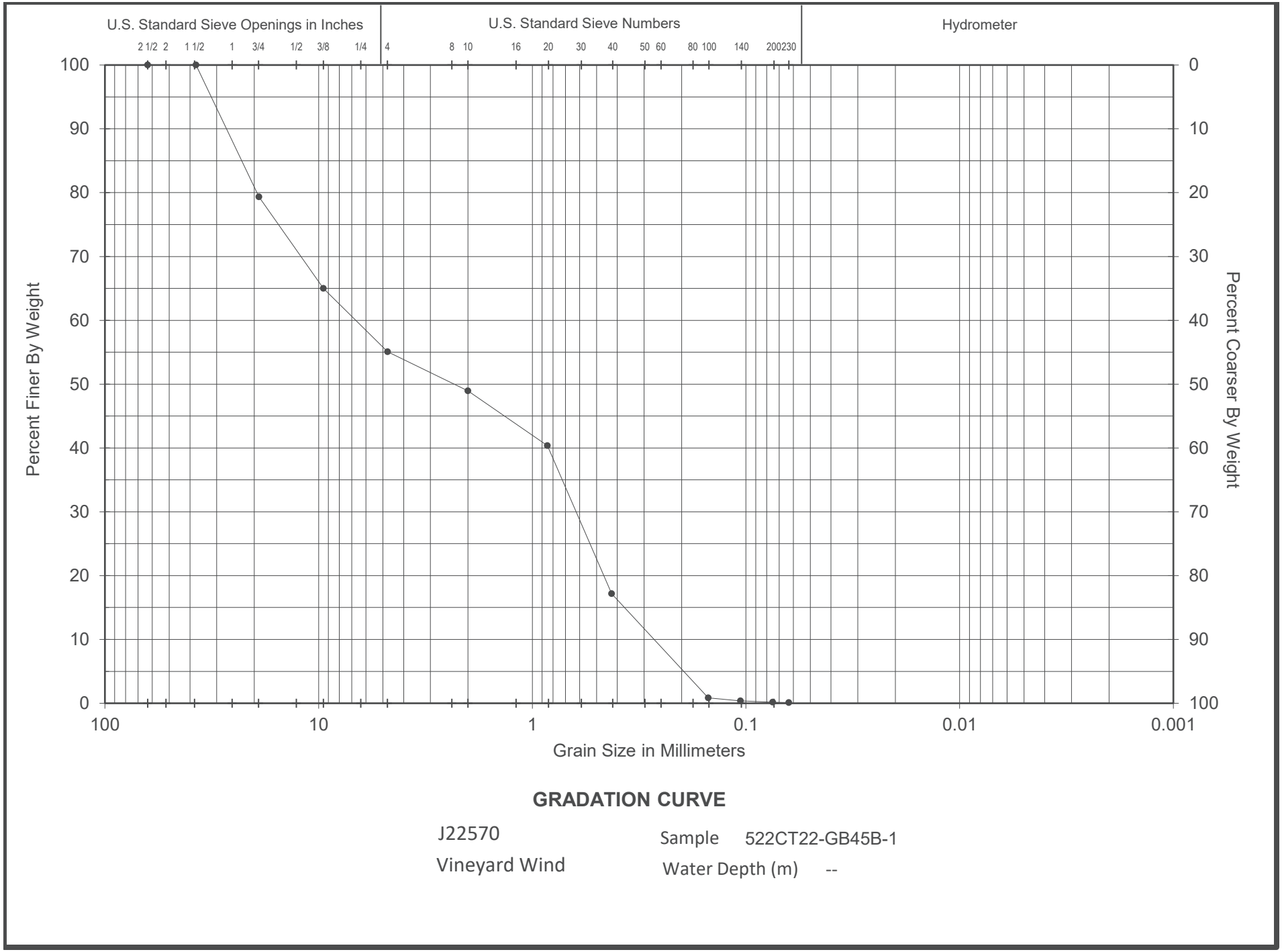
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	79.34	20.66	
9.5	3/8"	64.99	35.01	
4.75	4	55.08	44.92	
2	10	48.94	51.06	1.65
0.85	20	40.36	59.64	
0.425	40	17.16	82.84	
0.15	100	0.86	99.14	
0.106	140	0.37	99.63	
0.075	200	0.18	99.82	
0.063	230	0.11	99.89	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	48.94
% Passing #230	0.11
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	50.21
% Gravel-Sized Shell	> 2.00 mm	0.84
% Sand	0.0625 - 2.00 mm	48.84
% Silt and Clay	< 0.0625 mm	0.11
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.72
% Medium Sand	0.25 - 0.50 mm	23.20
% Fine Sand	0.0625 - 0.25 mm	17.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.16	0.425	0.86	0.150	0.269
D30	30	40.36	0.850	17.16	0.425	0.624
D50	50	55.08	4.750	48.94	2.000	2.321
D60	60	64.99	9.500	55.08	4.750	6.700

Uniformity Coefficient (Cu)	24.907
Coefficient of Curvature (Cc)	0.216



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB45B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB45C-1
Water Depth (m)	--

Grain Size Data

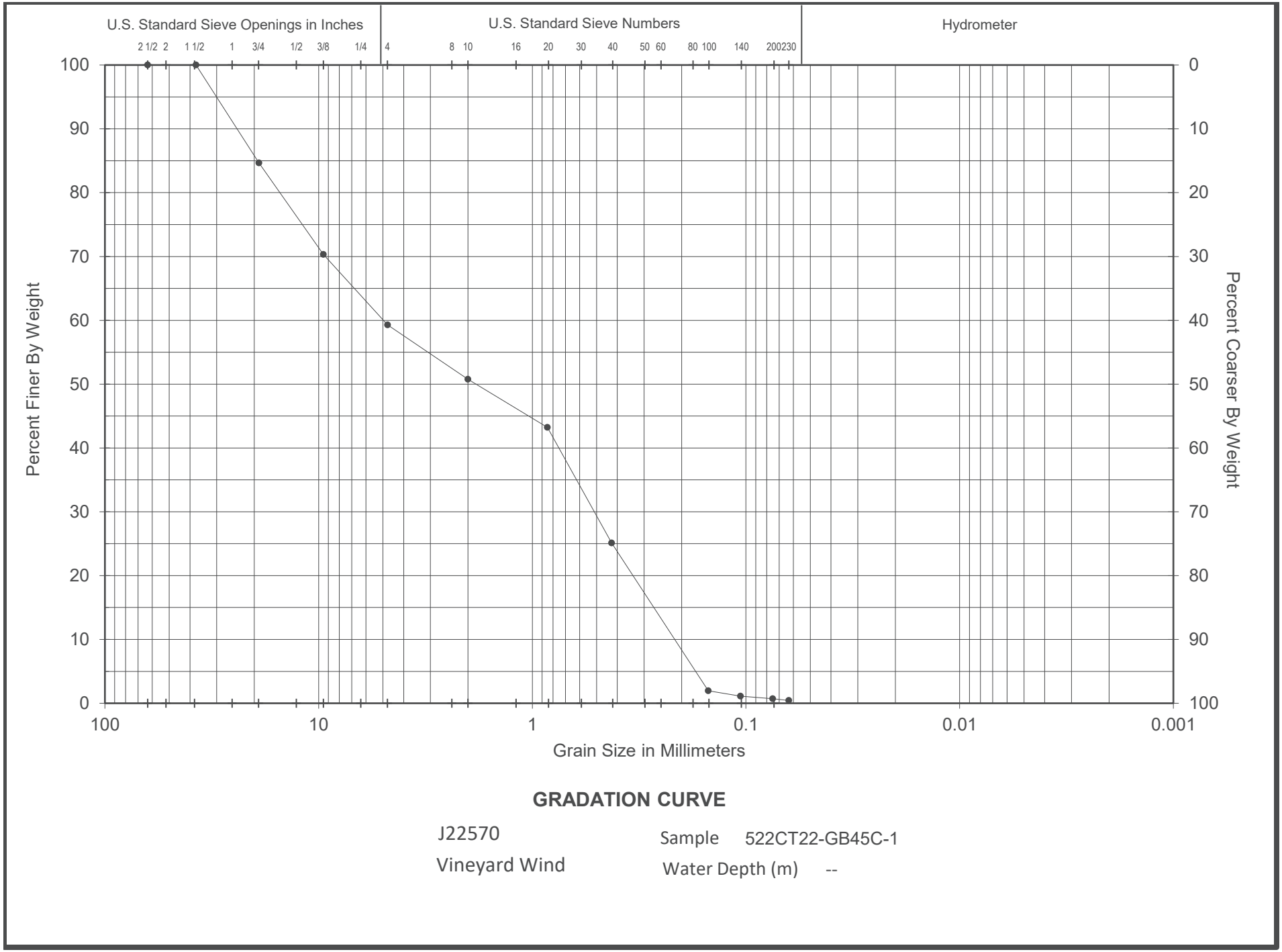
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	84.65	15.35	
9.5	3/8"	70.33	29.67	
4.75	4	59.29	40.71	
2	10	50.77	49.23	0.52
0.85	20	43.23	56.77	
0.425	40	25.13	74.87	
0.15	100	1.95	98.05	
0.106	140	1.12	98.88	
0.075	200	0.71	99.29	
0.063	230	0.43	99.57	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	50.77
% Passing #230	0.43
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	48.97
% Gravel-Sized Shell	> 2.00 mm	0.26
% Sand	0.0625 - 2.00 mm	50.34
% Silt and Clay	< 0.0625 mm	0.43
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	16.06
% Medium Sand	0.25 - 0.50 mm	18.10
% Fine Sand	0.0625 - 0.25 mm	24.70

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	25.13	0.425	1.95	0.150	0.215
D30	30	43.23	0.850	25.13	0.425	0.512
D50	50	50.77	2.000	43.23	0.850	1.832
D60	60	70.33	9.500	59.29	4.750	4.967

Uniformity Coefficient (Cu)	23.062
Coefficient of Curvature (Cc)	0.245



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB45C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB46-1
Water Depth (m)	--

Grain Size Data

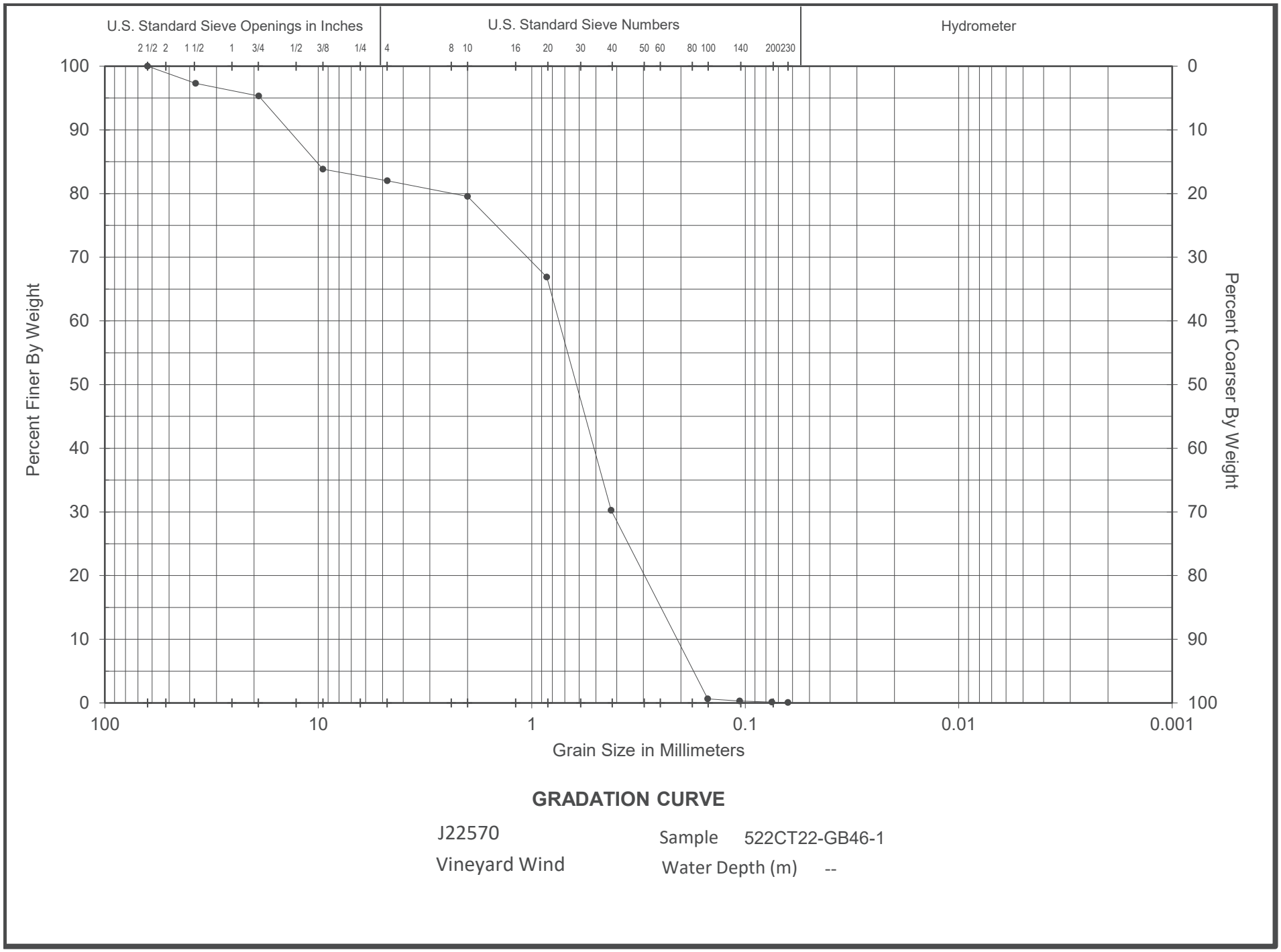
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	97.30	2.70	
19	3/4"	95.31	4.69	
9.5	3/8"	83.82	16.18	
4.75	4	82.01	17.99	
2	10	79.54	20.46	87.15
0.85	20	66.87	33.13	
0.425	40	30.25	69.75	
0.15	100	0.65	99.35	
0.106	140	0.31	99.69	
0.075	200	0.13	99.87	
0.063	230	0.06	99.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	79.54
% Passing #230	0.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.63
% Gravel-Sized Shell	> 2.00 mm	17.83
% Sand	0.0625 - 2.00 mm	79.48
% Silt and Clay	< 0.0625 mm	0.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	15.14
% Medium Sand	0.25 - 0.50 mm	36.63
% Fine Sand	0.0625 - 0.25 mm	30.19

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	30.25	0.425	0.65	0.150	0.208
D30	30	30.25	0.425	0.65	0.150	0.421
D50	50	66.87	0.850	30.25	0.425	0.618
D60	60	66.87	0.850	30.25	0.425	0.746

Uniformity Coefficient (Cu)	3.580
Coefficient of Curvature (Cc)	1.141



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB46-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB47A-1
Water Depth (m)	--

Grain Size Data

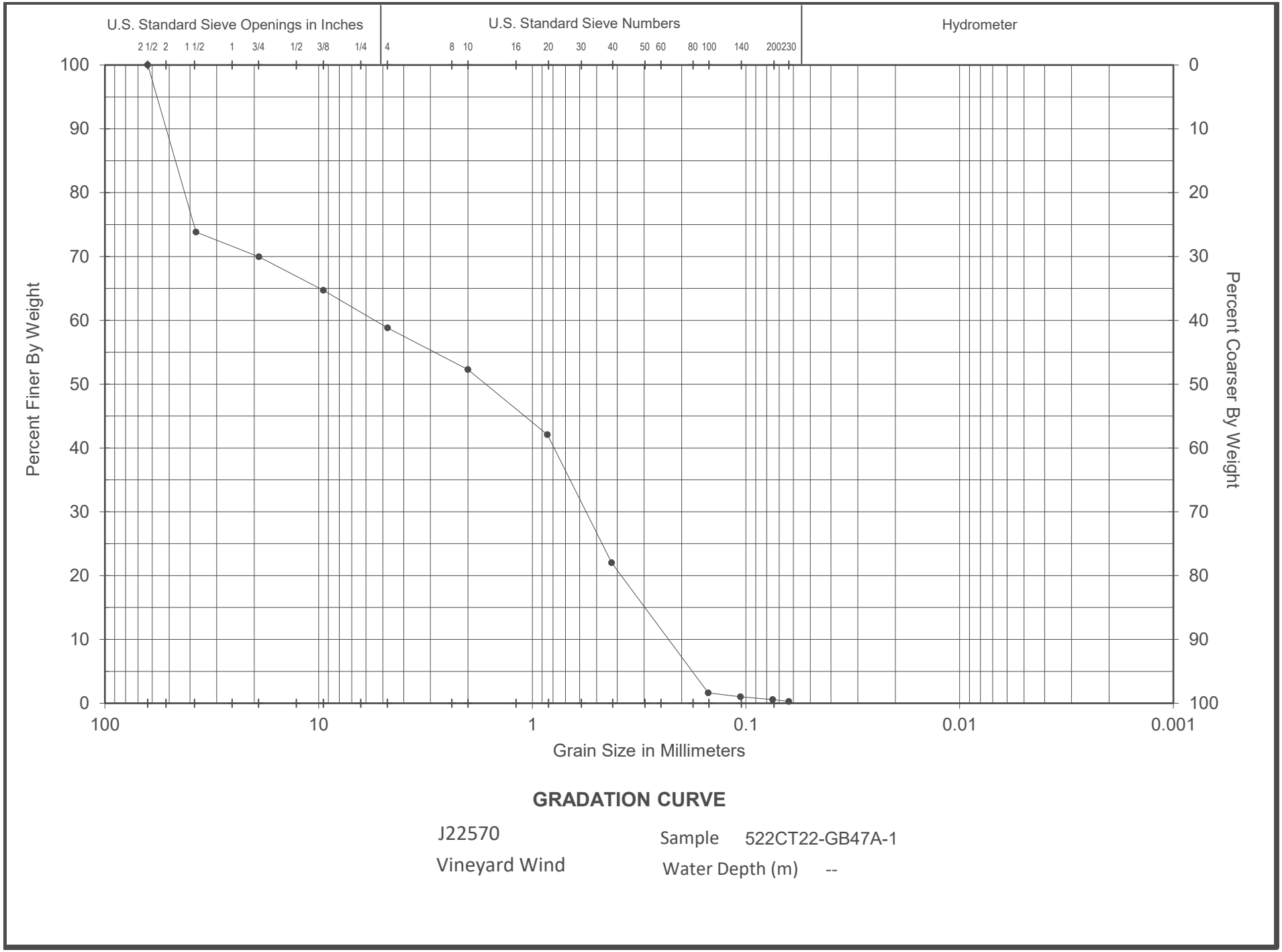
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	73.82	26.18	
19	3/4"	69.95	30.05	
9.5	3/8"	64.70	35.30	
4.75	4	58.81	41.19	
2	10	52.29	47.71	14.25
0.85	20	42.10	57.90	
0.425	40	22.02	77.98	
0.15	100	1.63	98.37	
0.106	140	1.01	98.99	
0.075	200	0.58	99.42	
0.063	230	0.29	99.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	52.29
% Passing #230	0.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	40.91
% Gravel-Sized Shell	> 2.00 mm	6.80
% Sand	0.0625 - 2.00 mm	52.00
% Silt and Clay	< 0.0625 mm	0.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	16.72
% Medium Sand	0.25 - 0.50 mm	20.08
% Fine Sand	0.0625 - 0.25 mm	21.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.02	0.425	1.63	0.150	0.230
D30	30	42.10	0.850	22.02	0.425	0.560
D50	50	52.29	2.000	42.10	0.850	1.650
D60	60	64.70	9.500	58.81	4.750	5.462

Uniformity Coefficient (Cu)	23.748
Coefficient of Curvature (Cc)	0.249



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB47A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB47B-1
Water Depth (m)	--

Grain Size Data

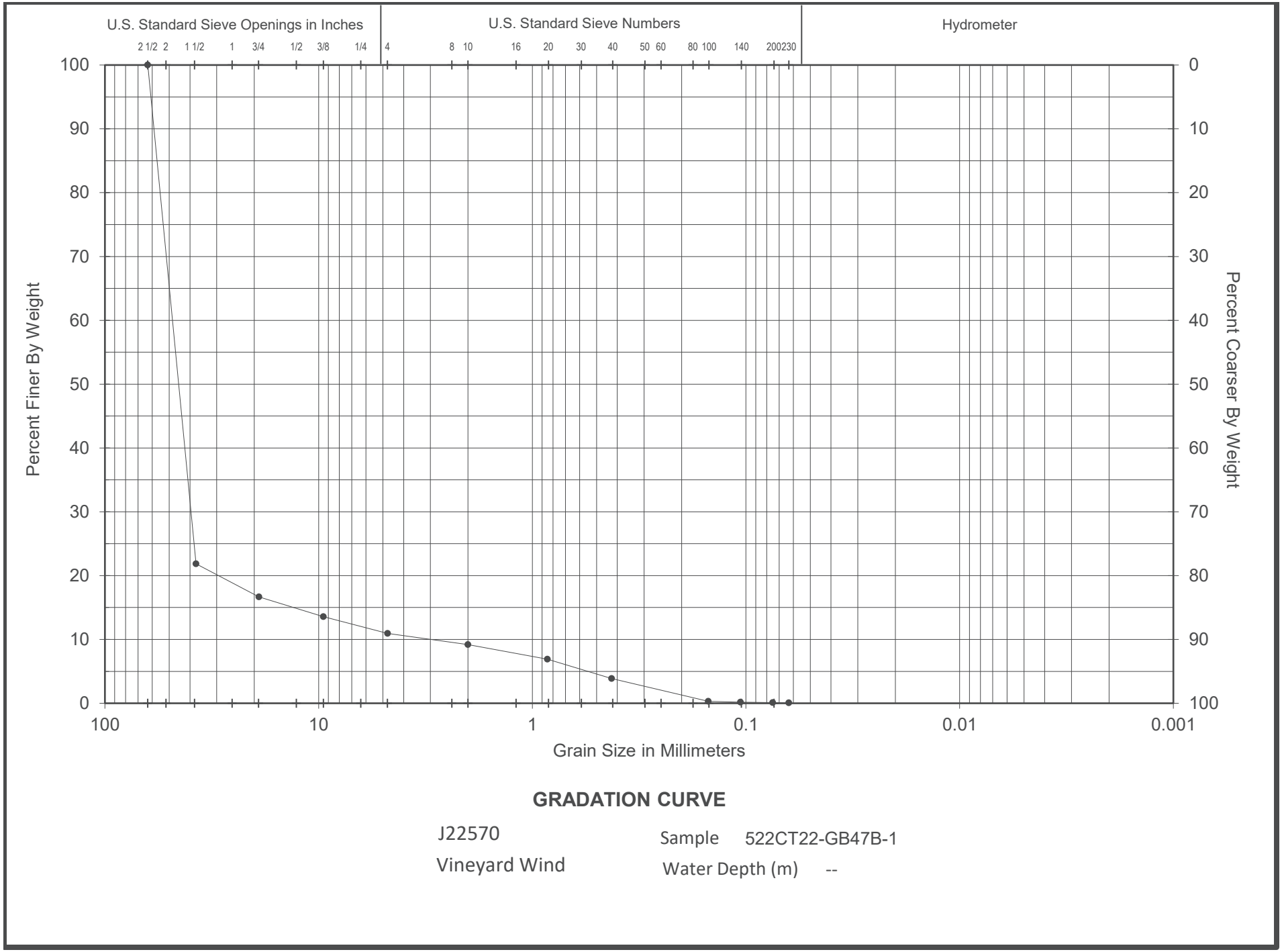
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	21.86	78.14	
19	3/4"	16.67	83.33	
9.5	3/8"	13.56	86.44	
4.75	4	10.94	89.06	
2	10	9.20	90.80	2.58
0.85	20	6.92	93.08	
0.425	40	3.87	96.13	
0.15	100	0.30	99.70	
0.106	140	0.18	99.82	
0.075	200	0.11	99.89	
0.063	230	0.07	99.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	9.20
% Passing #230	0.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	88.46
% Gravel-Sized Shell	> 2.00 mm	2.34
% Sand	0.0625 - 2.00 mm	9.14
% Silt and Clay	< 0.0625 mm	0.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.02
% Medium Sand	0.25 - 0.50 mm	3.05
% Fine Sand	0.0625 - 0.25 mm	3.81

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.94	4.750	9.20	2.000	2.978
D30	30	100.00	63.000	21.86	37.500	39.583
D50	50	100.00	63.000	21.86	37.500	45.204
D60	60	100.00	63.000	21.86	37.500	48.307

Uniformity Coefficient (Cu)	16.223
Coefficient of Curvature (Cc)	10.893



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB47B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB48-1
Water Depth (m)	--

Grain Size Data

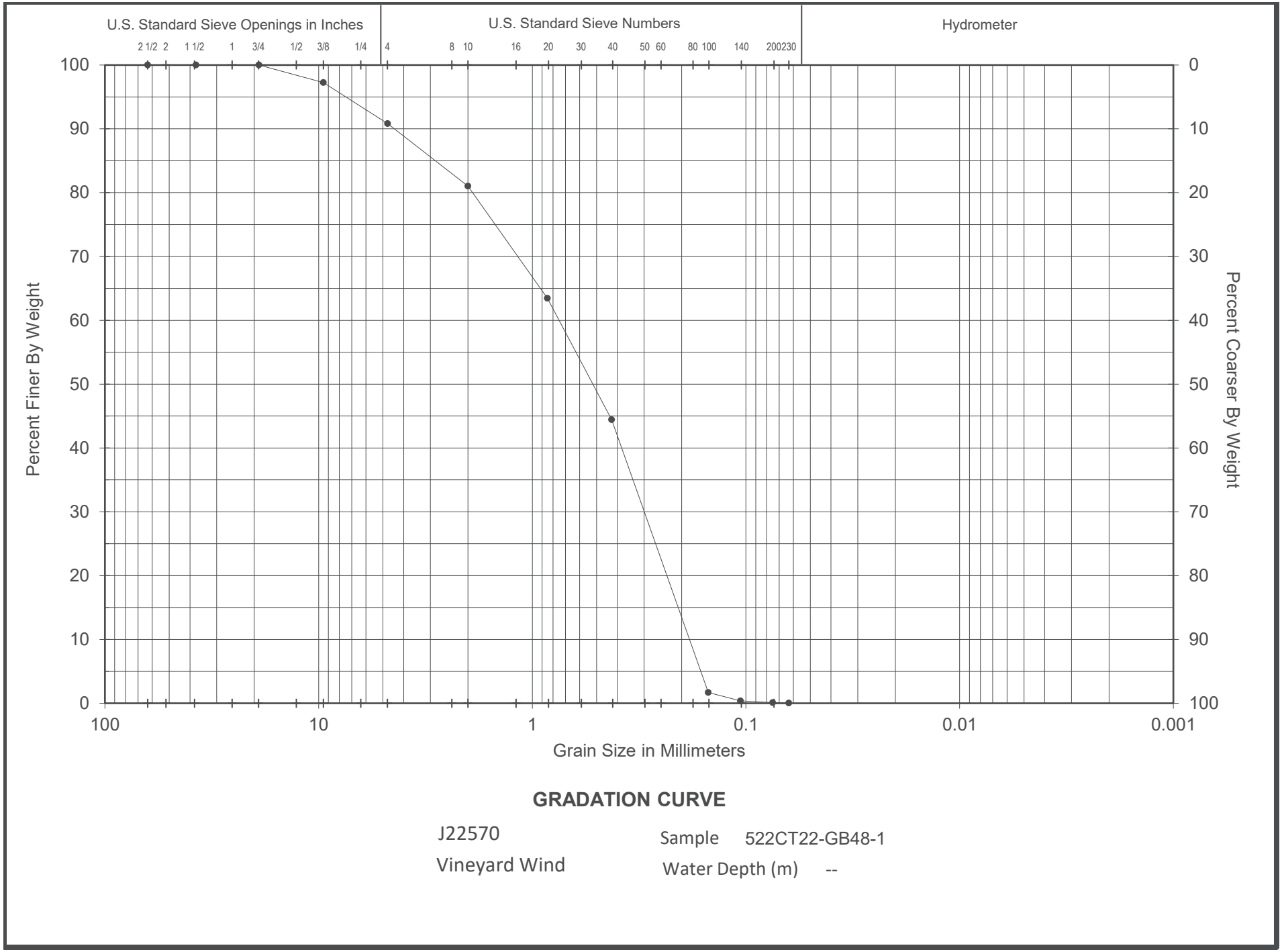
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	97.26	2.74	
4.75	4	90.81	9.19	
2	10	81.04	18.96	78.70
0.85	20	63.47	36.53	
0.425	40	44.44	55.56	
0.15	100	1.70	98.30	
0.106	140	0.37	99.63	
0.075	200	0.11	99.89	
0.063	230	0.05	99.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	81.04
% Passing #230	0.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.04
% Gravel-Sized Shell	> 2.00 mm	14.92
% Sand	0.0625 - 2.00 mm	80.99
% Silt and Clay	< 0.0625 mm	0.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.34
% Medium Sand	0.25 - 0.50 mm	19.03
% Fine Sand	0.0625 - 0.25 mm	44.39

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	44.44	0.425	1.70	0.150	0.184
D30	30	44.44	0.425	1.70	0.150	0.299
D50	50	63.47	0.850	44.44	0.425	0.520
D60	60	63.47	0.850	44.44	0.425	0.749

Uniformity Coefficient (Cu)	4.080
Coefficient of Curvature (Cc)	0.650



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB48-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB50-1
Water Depth (m)	--

Grain Size Data

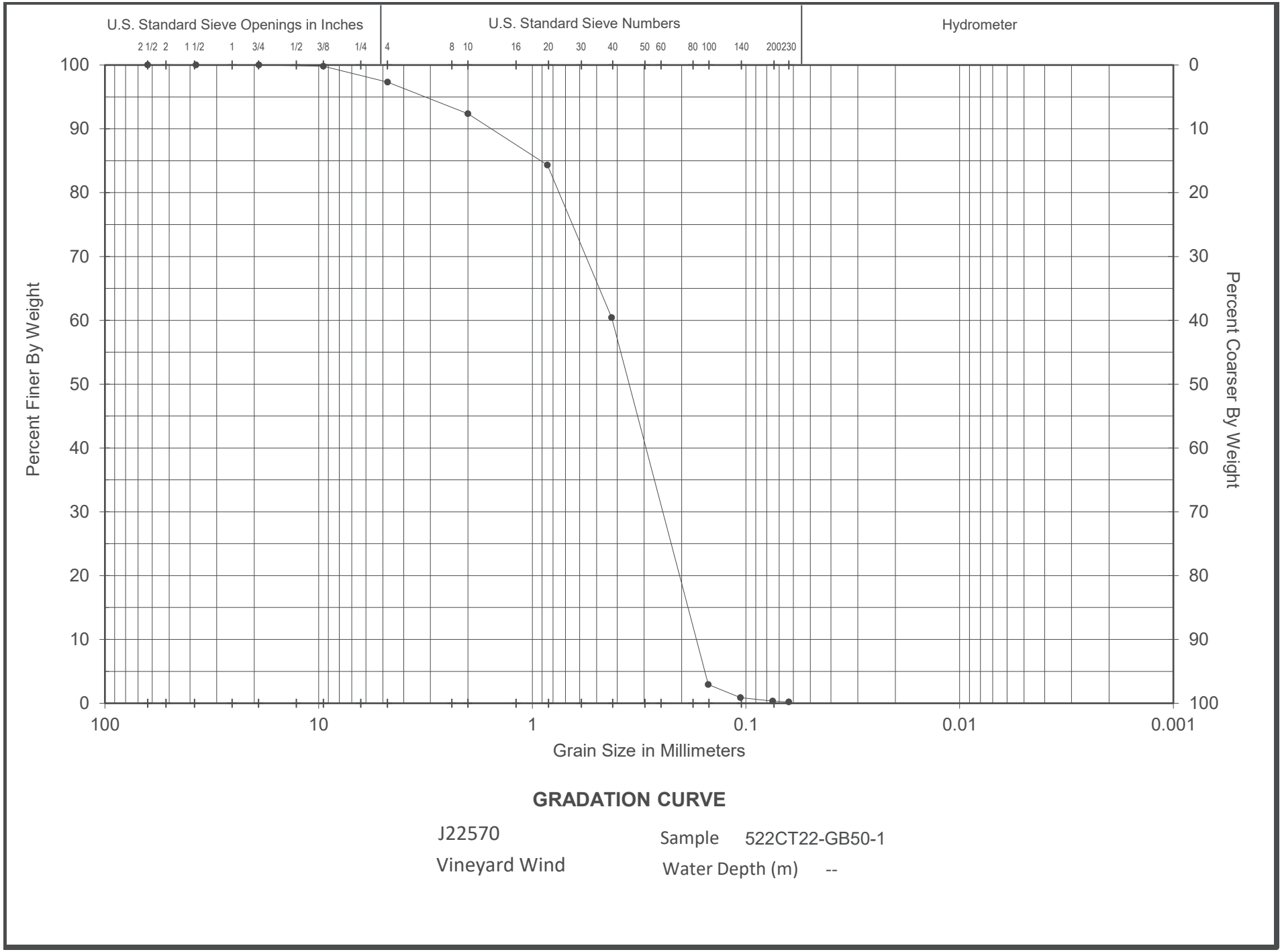
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.82	0.18	
4.75	4	97.32	2.68	
2	10	92.37	7.63	71.98
0.85	20	84.31	15.69	
0.425	40	60.43	39.57	
0.15	100	2.93	97.07	
0.106	140	0.89	99.11	
0.075	200	0.36	99.64	
0.063	230	0.21	99.79	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	92.37
% Passing #230	0.21
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.14
% Gravel-Sized Shell	> 2.00 mm	5.49
% Sand	0.0625 - 2.00 mm	92.17
% Silt and Clay	< 0.0625 mm	0.21
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	13.01
% Medium Sand	0.25 - 0.50 mm	23.88
% Fine Sand	0.0625 - 0.25 mm	60.22

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	60.43	0.425	2.93	0.150	0.171
D30	30	60.43	0.425	2.93	0.150	0.245
D50	50	60.43	0.425	2.93	0.150	0.352
D60	60	60.43	0.425	2.93	0.150	0.422

Uniformity Coefficient (Cu)	2.473
Coefficient of Curvature (Cc)	0.834



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB50-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB51A-1
Water Depth (m)	--

Grain Size Data

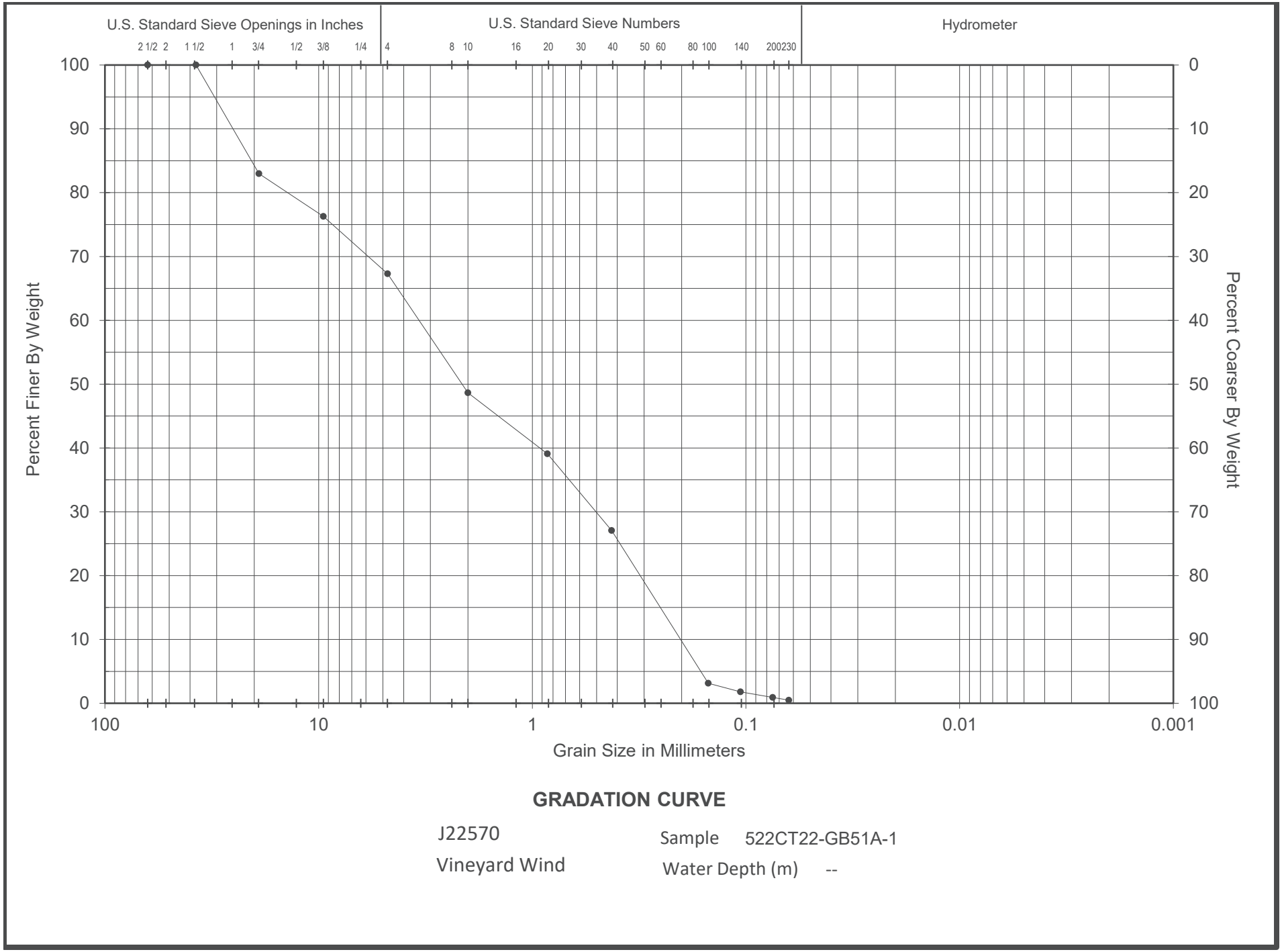
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	82.98	17.02	
9.5	3/8"	76.28	23.72	
4.75	4	67.30	32.70	
2	10	48.65	51.35	20.51
0.85	20	39.10	60.90	
0.425	40	27.08	72.92	
0.15	100	3.12	96.88	
0.106	140	1.79	98.21	
0.075	200	0.91	99.09	
0.063	230	0.49	99.51	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	48.65
% Passing #230	0.49
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	40.82
% Gravel-Sized Shell	> 2.00 mm	10.53
% Sand	0.0625 - 2.00 mm	48.16
% Silt and Clay	< 0.0625 mm	0.49
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.20
% Medium Sand	0.25 - 0.50 mm	12.02
% Fine Sand	0.0625 - 0.25 mm	26.59

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	27.08	0.425	3.12	0.150	0.202
D30	30	39.10	0.850	27.08	0.425	0.503
D50	50	67.30	4.750	48.65	2.000	2.129
D60	60	67.30	4.750	48.65	2.000	3.385

Uniformity Coefficient (Cu)	16.736
Coefficient of Curvature (Cc)	0.369



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB51A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB51B-2
Water Depth (m)	--

Grain Size Data

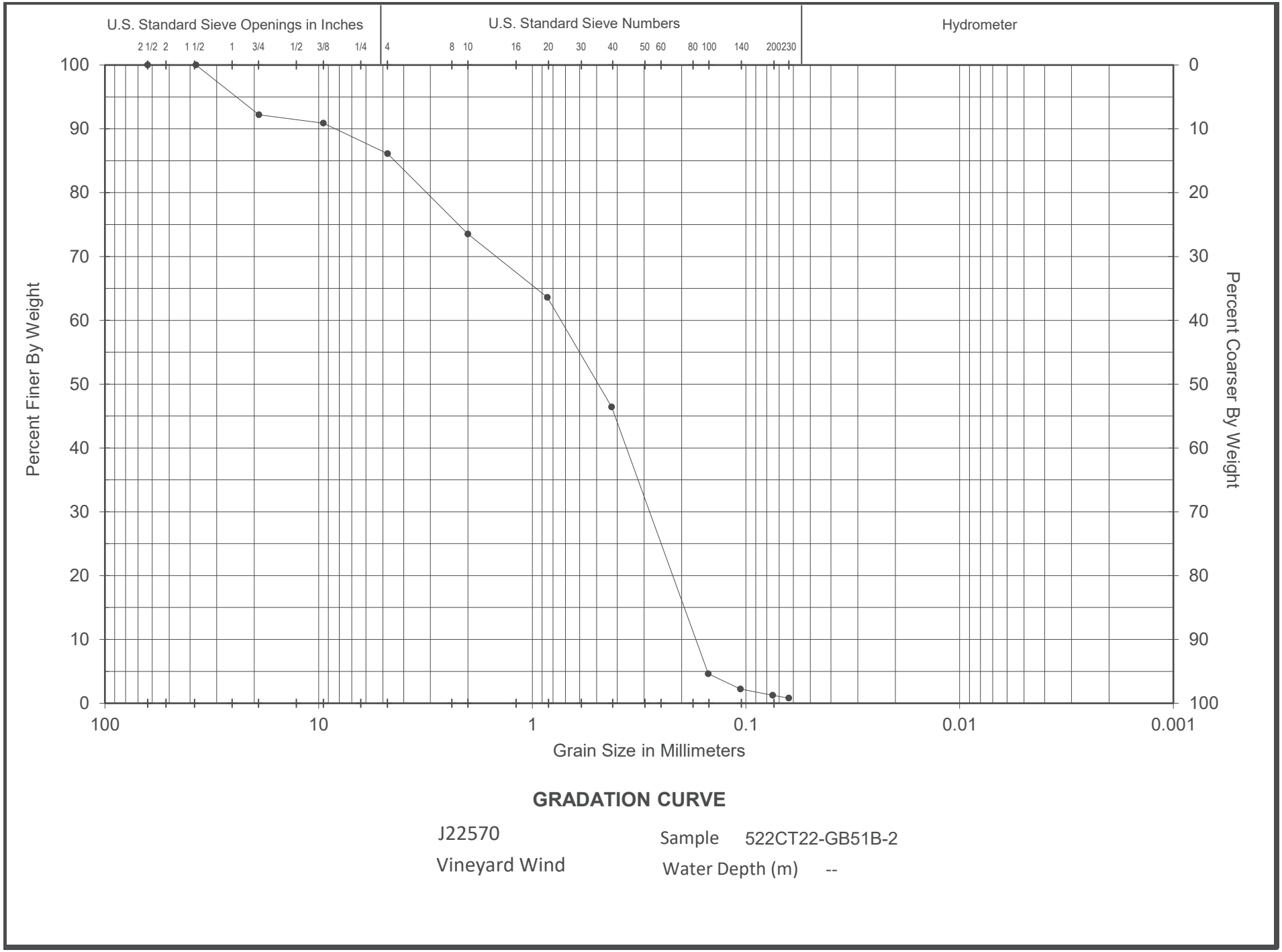
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	92.20	7.80	
9.5	3/8"	90.89	9.11	
4.75	4	86.12	13.88	
2	10	73.51	26.49	6.56
0.85	20	63.58	36.42	
0.425	40	46.43	53.57	
0.15	100	4.61	95.39	
0.106	140	2.21	97.79	
0.075	200	1.25	98.75	
0.063	230	0.80	99.20	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	73.51
% Passing #230	0.80
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	24.75
% Gravel-Sized Shell	> 2.00 mm	1.74
% Sand	0.0625 - 2.00 mm	72.71
% Silt and Clay	< 0.0625 mm	0.80
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	22.54
% Medium Sand	0.25 - 0.50 mm	17.15
% Fine Sand	0.0625 - 0.25 mm	45.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	46.43	0.425	4.61	0.150	0.172
D30	30	46.43	0.425	4.61	0.150	0.282
D50	50	63.58	0.850	46.43	0.425	0.491
D60	60	63.58	0.850	46.43	0.425	0.735

Uniformity Coefficient (Cu)	4.286
Coefficient of Curvature (Cc)	0.632



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB51B-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB51C-1
Water Depth (m)	--

Grain Size Data

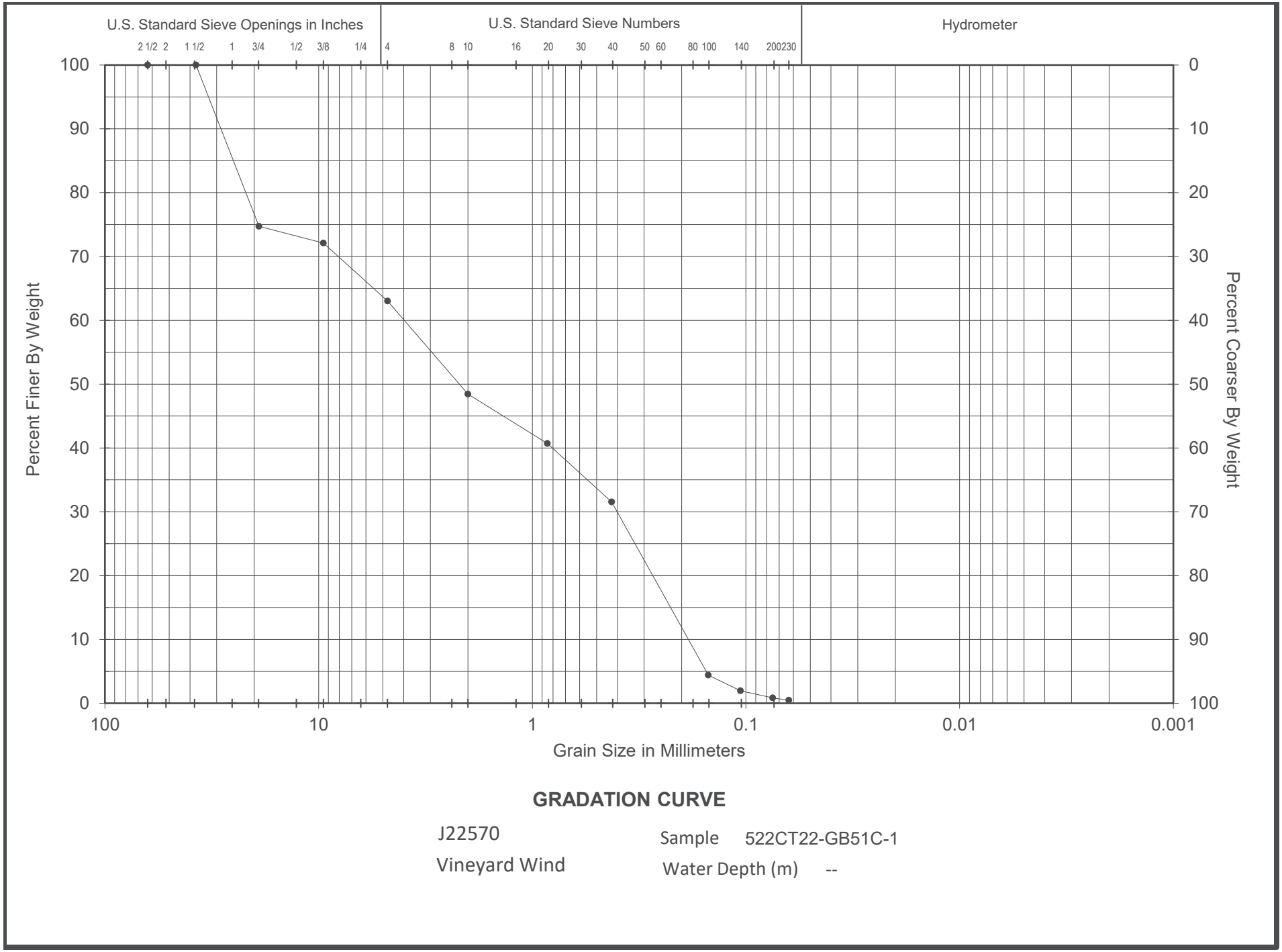
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	74.73	25.27	
9.5	3/8"	72.10	27.90	
4.75	4	63.03	36.97	
2	10	48.43	51.57	0.00
0.85	20	40.70	59.30	
0.425	40	31.56	68.44	
0.15	100	4.41	95.59	
0.106	140	1.97	98.03	
0.075	200	0.86	99.14	
0.063	230	0.47	99.53	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	48.43
% Passing #230	0.47
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	51.57
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	47.96
% Silt and Clay	< 0.0625 mm	0.47
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	22.33
% Medium Sand	0.25 - 0.50 mm	9.15
% Fine Sand	0.0625 - 0.25 mm	31.09

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.56	0.425	4.41	0.150	0.186
D30	30	31.56	0.425	4.41	0.150	0.400
D50	50	63.03	4.750	48.43	2.000	2.195
D60	60	63.03	4.750	48.43	2.000	3.969

Uniformity Coefficient (Cu)	21.356
Coefficient of Curvature (Cc)	0.217



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB51C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB52-1
Water Depth (m)	--

Grain Size Data

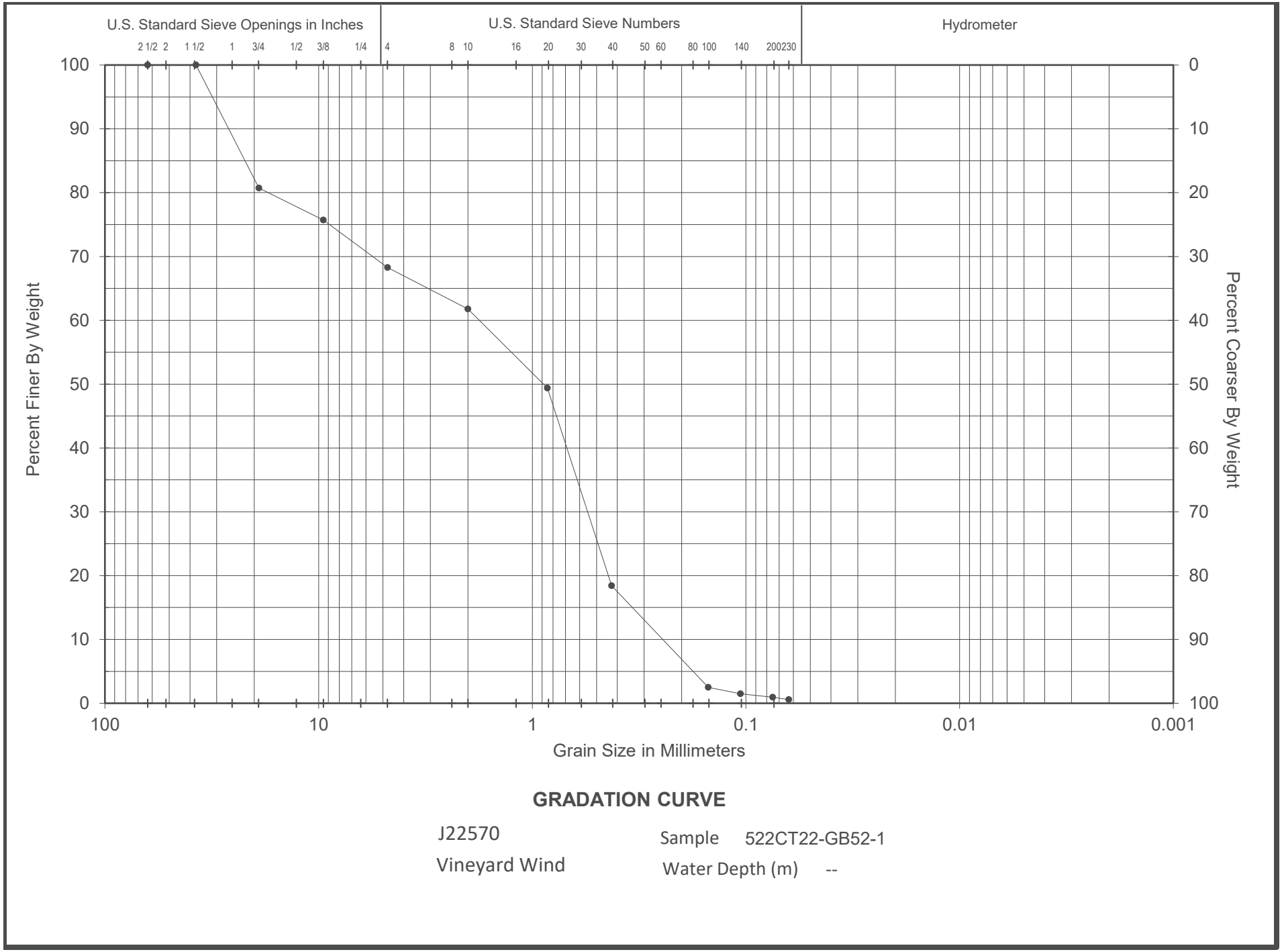
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	80.72	19.28	
9.5	3/8"	75.72	24.28	
4.75	4	68.27	31.73	
2	10	61.76	38.24	8.74
0.85	20	49.40	50.60	
0.425	40	18.41	81.59	
0.15	100	2.49	97.51	
0.106	140	1.49	98.51	
0.075	200	0.94	99.06	
0.063	230	0.57	99.43	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	61.76
% Passing #230	0.57
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	34.90
% Gravel-Sized Shell	> 2.00 mm	3.34
% Sand	0.0625 - 2.00 mm	61.19
% Silt and Clay	< 0.0625 mm	0.57
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	18.88
% Medium Sand	0.25 - 0.50 mm	30.99
% Fine Sand	0.0625 - 0.25 mm	17.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.41	0.425	2.49	0.150	0.245
D30	30	49.40	0.850	18.41	0.425	0.551
D50	50	61.76	2.000	49.40	0.850	0.886
D60	60	61.76	2.000	49.40	0.850	1.771

Uniformity Coefficient (Cu)	7.224
Coefficient of Curvature (Cc)	0.699



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB52-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB53A-1
Water Depth (m)	--

Grain Size Data

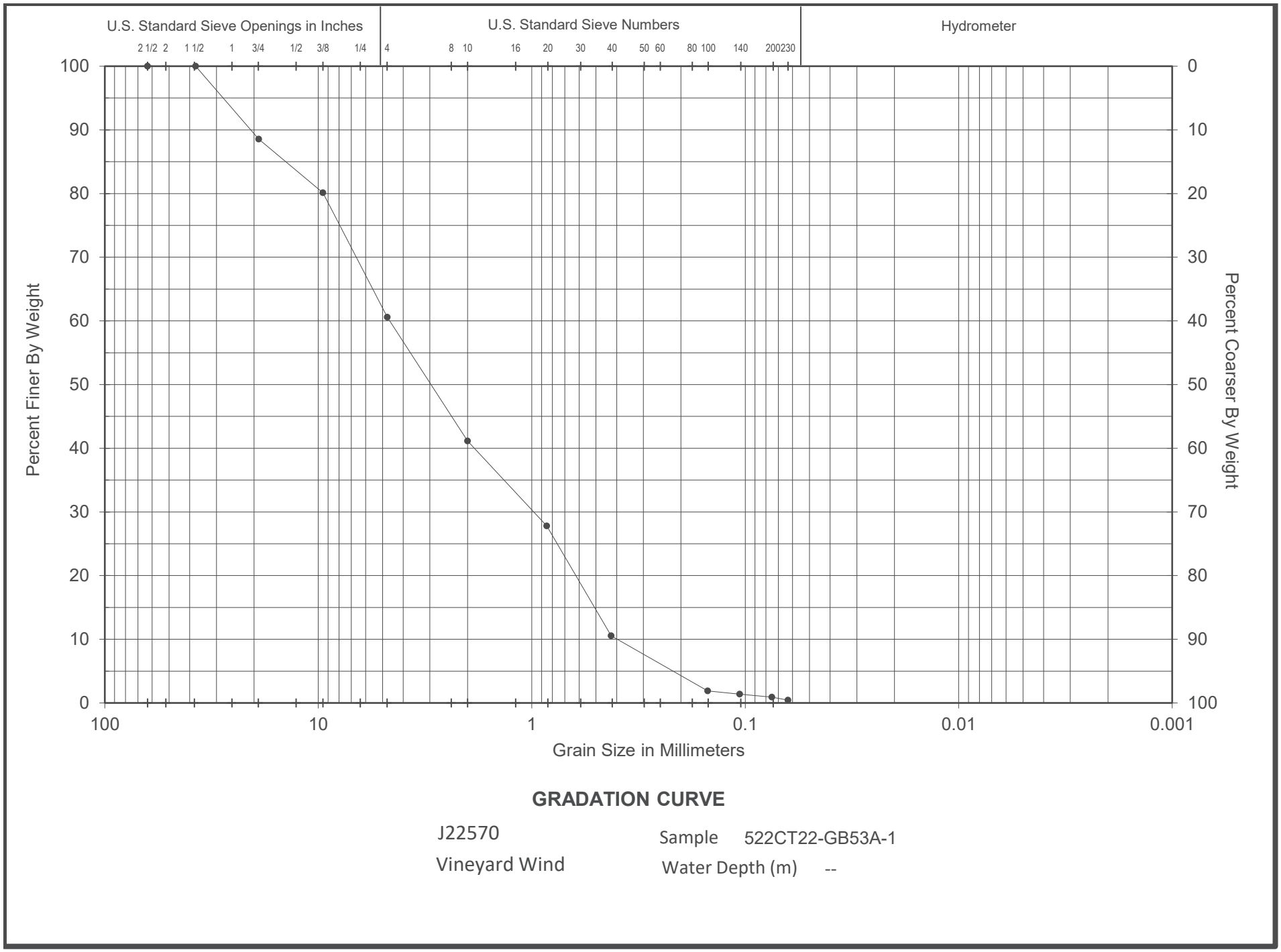
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	88.54	11.46	
9.5	3/8"	80.11	19.89	
4.75	4	60.58	39.42	
2	10	41.15	58.85	7.34
0.85	20	27.81	72.19	
0.425	40	10.56	89.44	
0.15	100	1.90	98.10	
0.106	140	1.38	98.62	
0.075	200	0.90	99.10	
0.063	230	0.44	99.56	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	41.15
% Passing #230	0.44
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	54.54
% Gravel-Sized Shell	> 2.00 mm	4.32
% Sand	0.0625 - 2.00 mm	40.70
% Silt and Clay	< 0.0625 mm	0.44
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	32.76
% Medium Sand	0.25 - 0.50 mm	17.25
% Fine Sand	0.0625 - 0.25 mm	10.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.56	0.425	1.90	0.150	0.397
D30	30	41.15	2.000	27.81	0.850	0.978
D50	50	60.58	4.750	41.15	2.000	2.966
D60	60	60.58	4.750	41.15	2.000	4.630

Uniformity Coefficient (Cu)	11.649
Coefficient of Curvature (Cc)	0.520



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB53A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB53B-2
Water Depth (m)	--

Grain Size Data

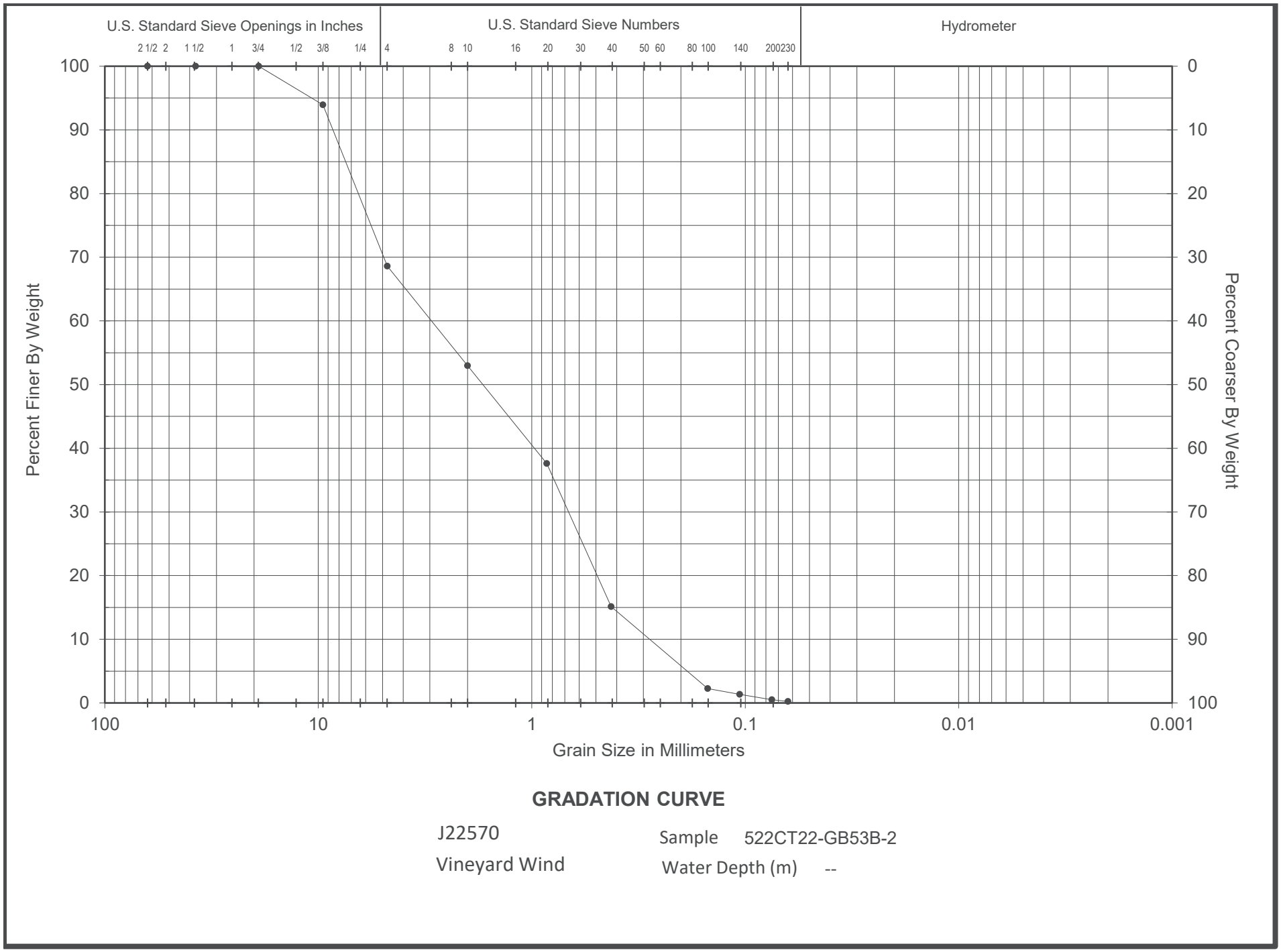
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	93.95	6.05	
4.75	4	68.58	31.42	
2	10	52.97	47.03	14.73
0.85	20	37.61	62.39	
0.425	40	15.14	84.86	
0.15	100	2.25	97.75	
0.106	140	1.33	98.67	
0.075	200	0.50	99.50	
0.063	230	0.24	99.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	52.97
% Passing #230	0.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	40.10
% Gravel-Sized Shell	> 2.00 mm	6.93
% Sand	0.0625 - 2.00 mm	52.73
% Silt and Clay	< 0.0625 mm	0.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	30.98
% Medium Sand	0.25 - 0.50 mm	22.47
% Fine Sand	0.0625 - 0.25 mm	14.89

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	15.14	0.425	2.25	0.150	0.281
D30	30	37.61	0.850	15.14	0.425	0.672
D50	50	52.97	2.000	37.61	0.850	1.695
D60	60	68.58	4.750	52.97	2.000	2.952

Uniformity Coefficient (Cu)	10.520
Coefficient of Curvature (Cc)	0.545



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB53B-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB53C-1
Water Depth (m)	--

Grain Size Data

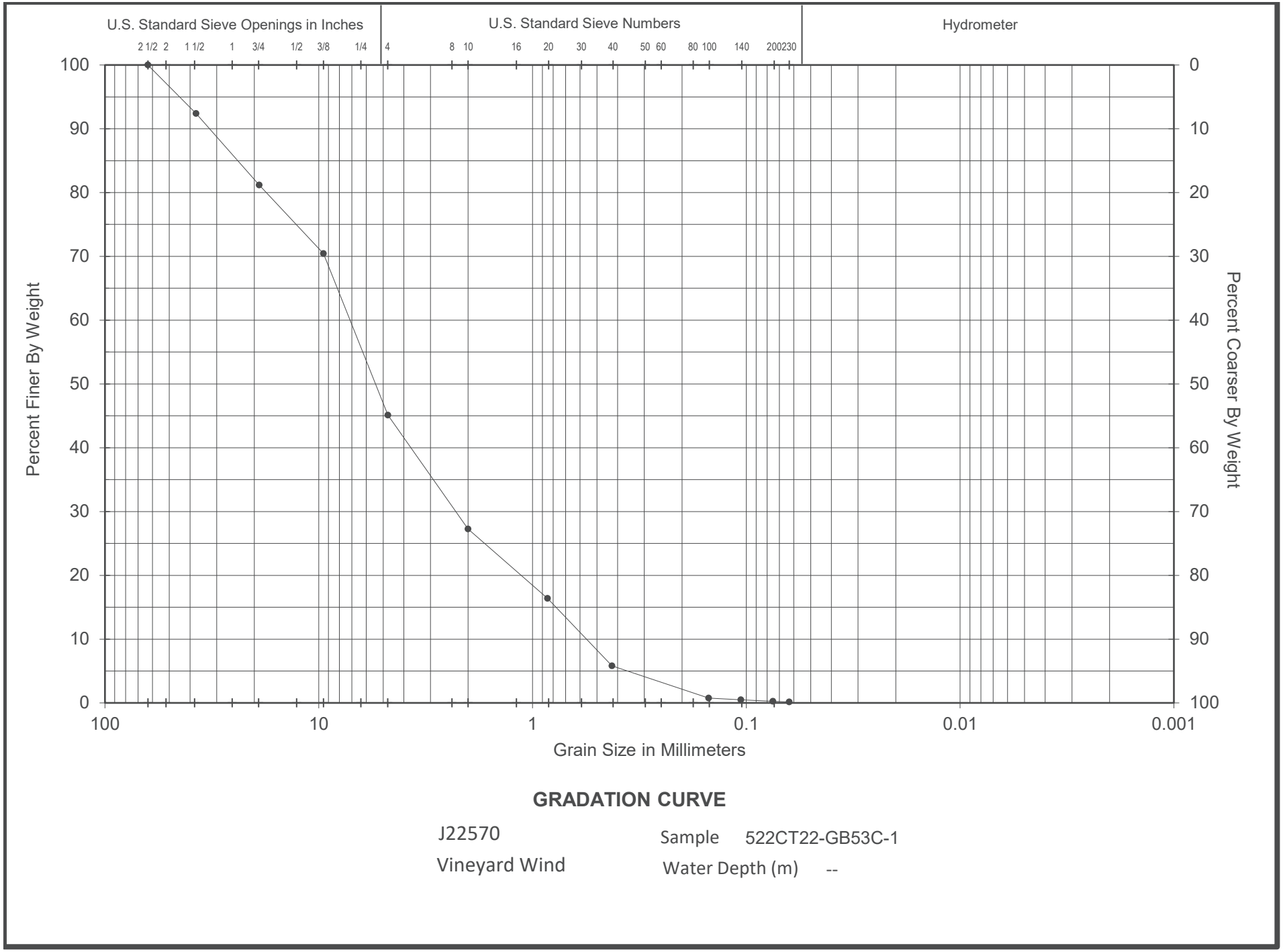
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	92.39	7.61	
19	3/4"	81.17	18.83	
9.5	3/8"	70.43	29.57	
4.75	4	45.11	54.89	
2	10	27.27	72.73	17.83
0.85	20	16.39	83.61	
0.425	40	5.81	94.19	
0.15	100	0.76	99.24	
0.106	140	0.48	99.52	
0.075	200	0.26	99.74	
0.063	230	0.16	99.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	27.27
% Passing #230	0.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	59.76
% Gravel-Sized Shell	> 2.00 mm	12.97
% Sand	0.0625 - 2.00 mm	27.11
% Silt and Clay	< 0.0625 mm	0.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.72
% Medium Sand	0.25 - 0.50 mm	10.58
% Fine Sand	0.0625 - 0.25 mm	5.66

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.39	0.850	5.81	0.425	0.559
D30	30	45.11	4.750	27.27	2.000	2.283
D50	50	70.43	9.500	45.11	4.750	5.430
D60	60	70.43	9.500	45.11	4.750	7.140

Uniformity Coefficient (Cu)	12.770
Coefficient of Curvature (Cc)	1.305



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB53C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB54-1
Water Depth (m)	--

Grain Size Data

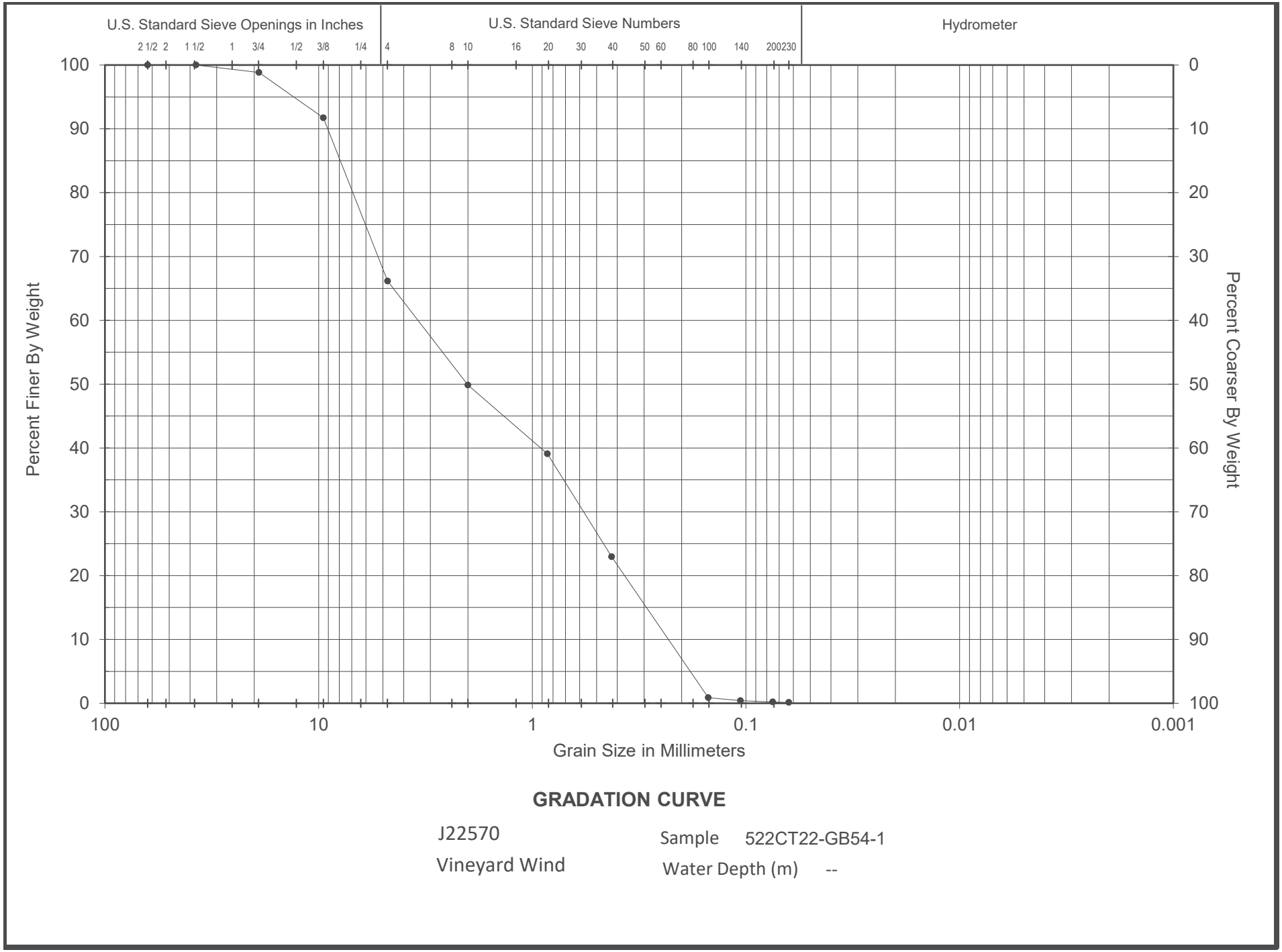
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.82	1.18	
9.5	3/8"	91.75	8.25	
4.75	4	66.15	33.85	
2	10	49.86	50.14	15.59
0.85	20	39.07	60.93	
0.425	40	22.96	77.04	
0.15	100	0.87	99.13	
0.106	140	0.42	99.58	
0.075	200	0.21	99.79	
0.063	230	0.13	99.87	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	49.86
% Passing #230	0.13
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	42.33
% Gravel-Sized Shell	> 2.00 mm	7.82
% Sand	0.0625 - 2.00 mm	49.73
% Silt and Clay	< 0.0625 mm	0.13
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.08
% Medium Sand	0.25 - 0.50 mm	16.11
% Fine Sand	0.0625 - 0.25 mm	22.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.96	0.425	0.87	0.150	0.231
D30	30	39.07	0.850	22.96	0.425	0.575
D50	50	66.15	4.750	49.86	2.000	2.015
D60	60	66.15	4.750	49.86	2.000	3.427

Uniformity Coefficient (Cu)	14.856
Coefficient of Curvature (Cc)	0.419



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB54-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB55A-1
Water Depth (m)	--

Grain Size Data

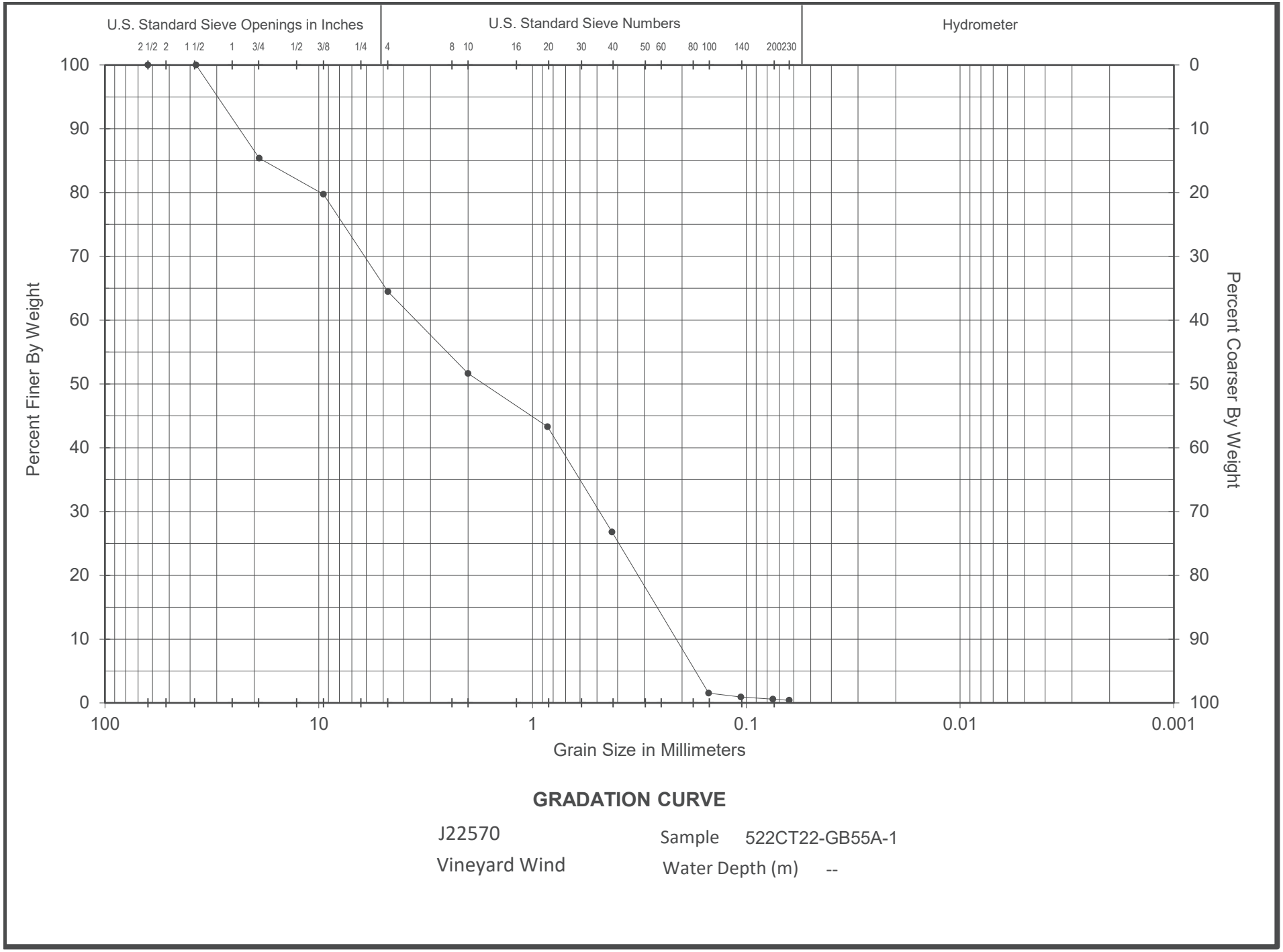
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	85.39	14.61	
9.5	3/8"	79.73	20.27	
4.75	4	64.47	35.53	
2	10	51.63	48.37	29.40
0.85	20	43.29	56.71	
0.425	40	26.79	73.21	
0.15	100	1.54	98.46	
0.106	140	0.94	99.06	
0.075	200	0.57	99.43	
0.063	230	0.40	99.60	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	51.63
% Passing #230	0.40
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	34.15
% Gravel-Sized Shell	> 2.00 mm	14.22
% Sand	0.0625 - 2.00 mm	51.22
% Silt and Clay	< 0.0625 mm	0.40
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	21.18
% Medium Sand	0.25 - 0.50 mm	16.50
% Fine Sand	0.0625 - 0.25 mm	26.39

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	26.79	0.425	1.54	0.150	0.213
D30	30	43.29	0.850	26.79	0.425	0.486
D50	50	51.63	2.000	43.29	0.850	1.692
D60	60	64.47	4.750	51.63	2.000	3.515

Uniformity Coefficient (Cu)	16.529
Coefficient of Curvature (Cc)	0.316



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB55A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB55B-1
Water Depth (m)	--

Grain Size Data

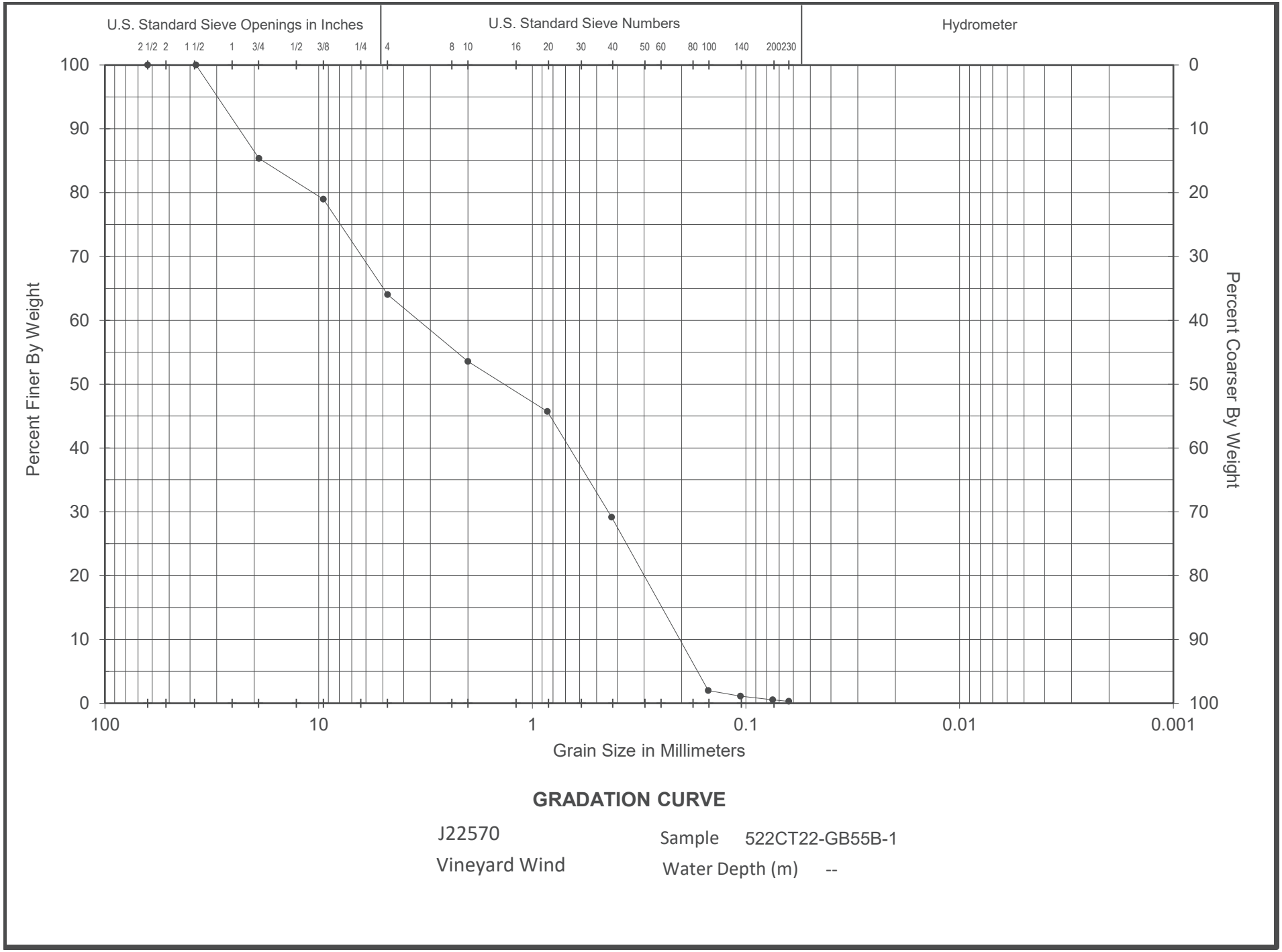
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	85.35	14.65	
9.5	3/8"	78.98	21.02	
4.75	4	64.02	35.98	
2	10	53.55	46.45	36.37
0.85	20	45.73	54.27	
0.425	40	29.14	70.86	
0.15	100	1.98	98.02	
0.106	140	1.12	98.88	
0.075	200	0.56	99.44	
0.063	230	0.29	99.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	53.55
% Passing #230	0.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	29.55
% Gravel-Sized Shell	> 2.00 mm	16.89
% Sand	0.0625 - 2.00 mm	53.26
% Silt and Clay	< 0.0625 mm	0.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	18.29
% Medium Sand	0.25 - 0.50 mm	16.59
% Fine Sand	0.0625 - 0.25 mm	28.85

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	29.14	0.425	1.98	0.150	0.204
D30	30	45.73	0.850	29.14	0.425	0.441
D50	50	53.55	2.000	45.73	0.850	1.356
D60	60	64.02	4.750	53.55	2.000	3.408

Uniformity Coefficient (Cu)	16.704
Coefficient of Curvature (Cc)	0.279



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB55B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB55C-1
Water Depth (m)	--

Grain Size Data

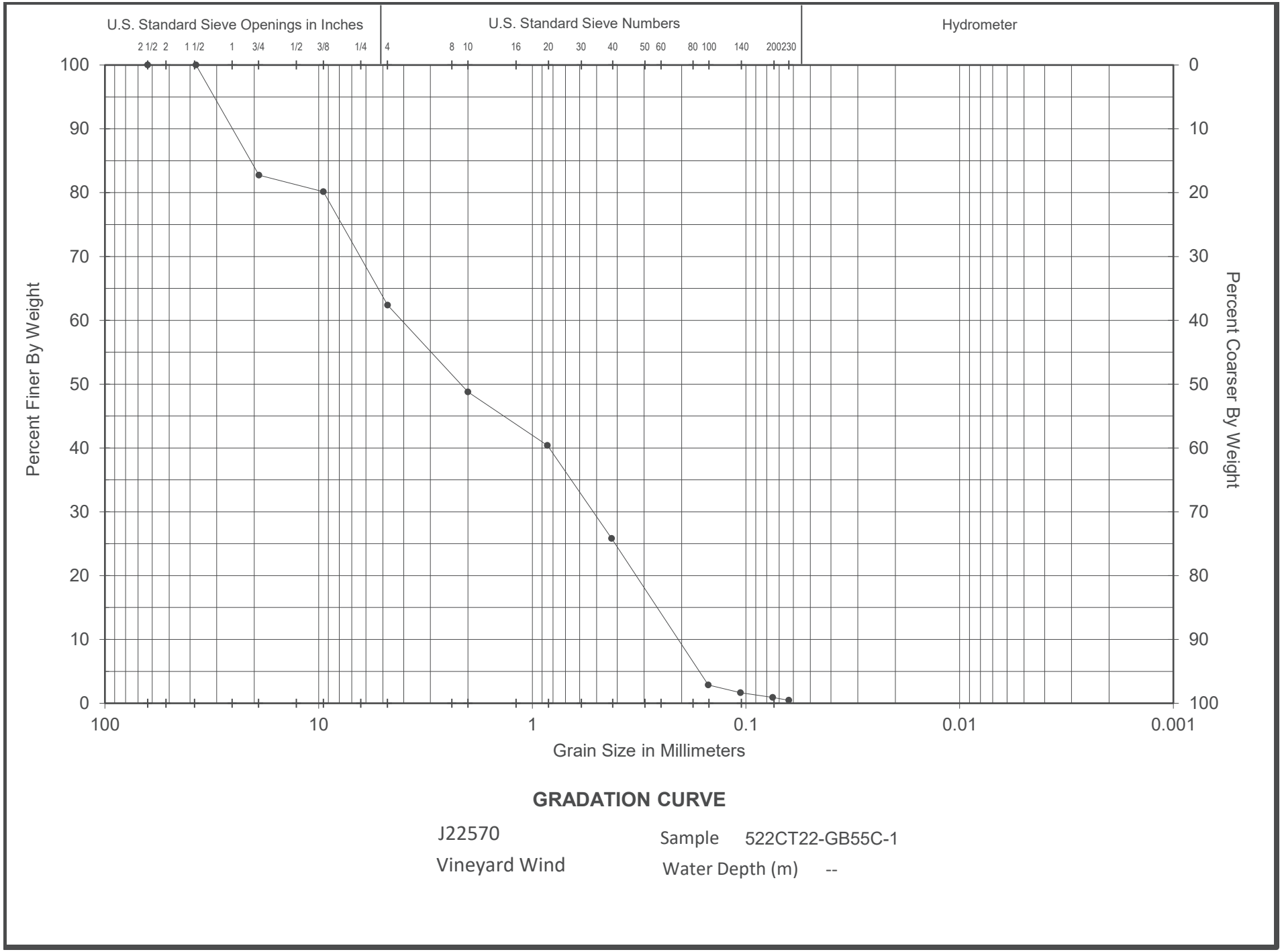
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	82.75	17.25	
9.5	3/8"	80.17	19.83	
4.75	4	62.38	37.62	
2	10	48.79	51.21	16.76
0.85	20	40.40	59.60	
0.425	40	25.81	74.19	
0.15	100	2.87	97.13	
0.106	140	1.65	98.35	
0.075	200	0.93	99.07	
0.063	230	0.46	99.54	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	48.79
% Passing #230	0.46
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	42.62
% Gravel-Sized Shell	> 2.00 mm	8.58
% Sand	0.0625 - 2.00 mm	48.33
% Silt and Clay	< 0.0625 mm	0.46
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	21.98
% Medium Sand	0.25 - 0.50 mm	14.59
% Fine Sand	0.0625 - 0.25 mm	25.35

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	25.81	0.425	2.87	0.150	0.207
D30	30	40.40	0.850	25.81	0.425	0.519
D50	50	62.38	4.750	48.79	2.000	2.160
D60	60	62.38	4.750	48.79	2.000	4.081

Uniformity Coefficient (Cu)	19.689
Coefficient of Curvature (Cc)	0.318



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB55C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB56-1
Water Depth (m)	--

Grain Size Data

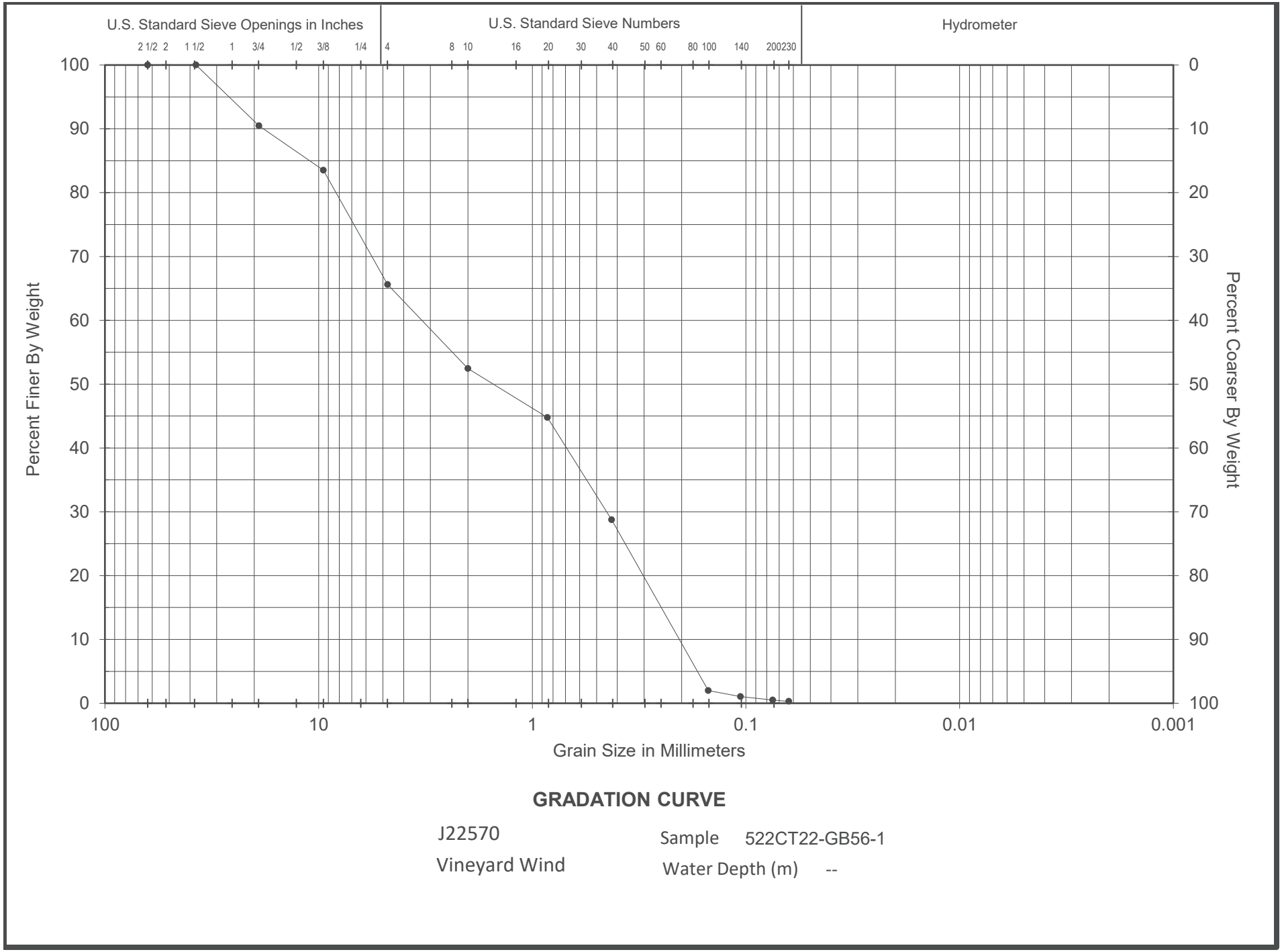
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	90.48	9.52	
9.5	3/8"	83.51	16.49	
4.75	4	65.62	34.38	
2	10	52.44	47.56	11.94
0.85	20	44.78	55.22	
0.425	40	28.76	71.24	
0.15	100	1.99	98.01	
0.106	140	1.05	98.95	
0.075	200	0.50	99.50	
0.063	230	0.29	99.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	52.44
% Passing #230	0.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	41.88
% Gravel-Sized Shell	> 2.00 mm	5.68
% Sand	0.0625 - 2.00 mm	52.15
% Silt and Clay	< 0.0625 mm	0.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	20.84
% Medium Sand	0.25 - 0.50 mm	16.03
% Fine Sand	0.0625 - 0.25 mm	28.47

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	28.76	0.425	1.99	0.150	0.205
D30	30	44.78	0.850	28.76	0.425	0.449
D50	50	52.44	2.000	44.78	0.850	1.522
D60	60	65.62	4.750	52.44	2.000	3.284

Uniformity Coefficient (Cu)	16.029
Coefficient of Curvature (Cc)	0.299



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB56-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB57A-1
Water Depth (m)	--

Grain Size Data

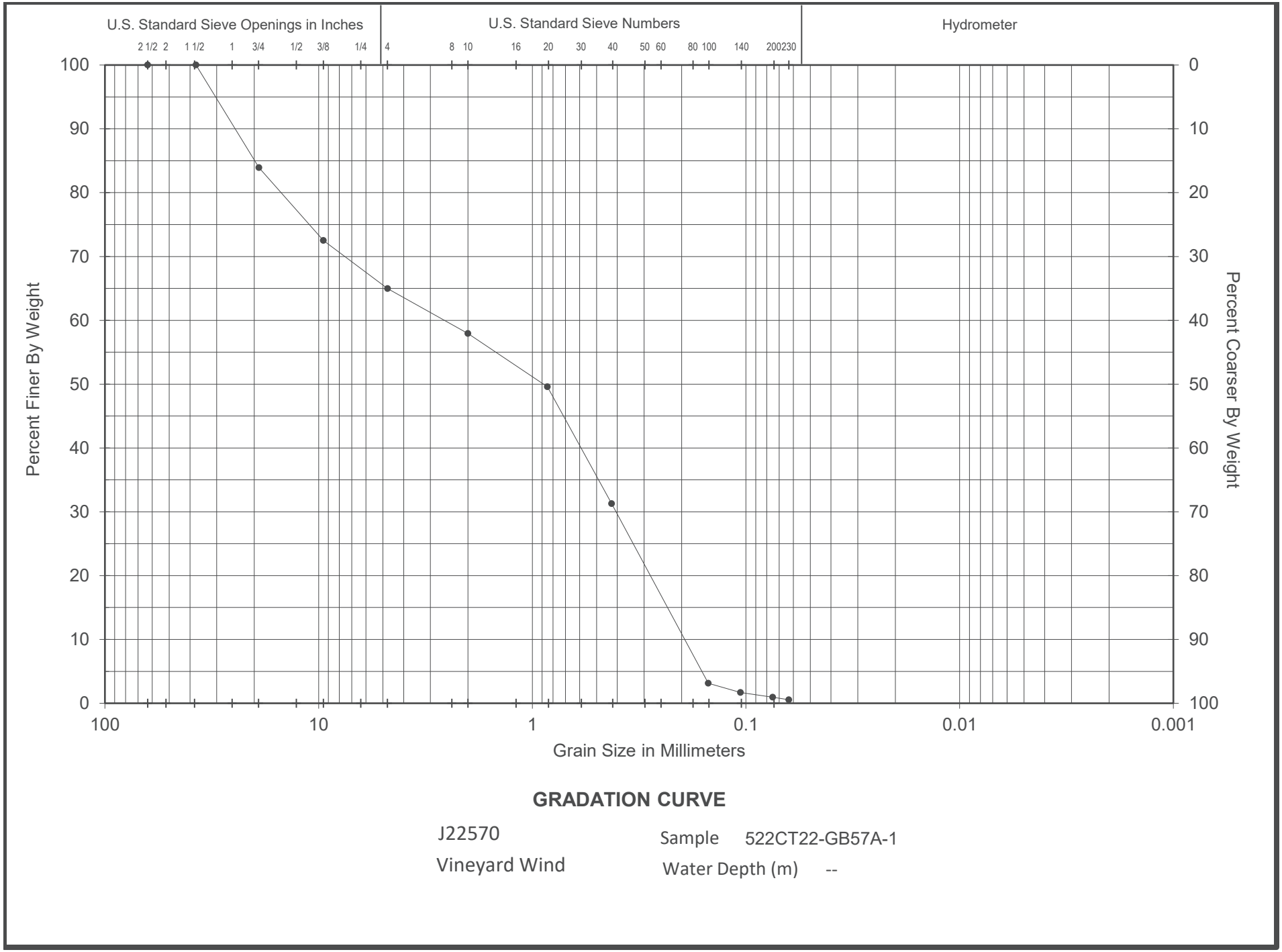
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	83.91	16.09	
9.5	3/8"	72.52	27.48	
4.75	4	64.97	35.03	
2	10	57.94	42.06	22.08
0.85	20	49.60	50.40	
0.425	40	31.27	68.73	
0.15	100	3.15	96.85	
0.106	140	1.68	98.32	
0.075	200	0.94	99.06	
0.063	230	0.55	99.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	57.94
% Passing #230	0.55
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	32.77
% Gravel-Sized Shell	> 2.00 mm	9.29
% Sand	0.0625 - 2.00 mm	57.39
% Silt and Clay	< 0.0625 mm	0.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	15.37
% Medium Sand	0.25 - 0.50 mm	18.32
% Fine Sand	0.0625 - 0.25 mm	30.72

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.27	0.425	3.15	0.150	0.193
D30	30	31.27	0.425	3.15	0.150	0.405
D50	50	57.94	2.000	49.60	0.850	0.886
D60	60	64.97	4.750	57.94	2.000	2.576

Uniformity Coefficient (Cu)	13.328
Coefficient of Curvature (Cc)	0.330



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB57A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB57B-1
Water Depth (m)	--

Grain Size Data

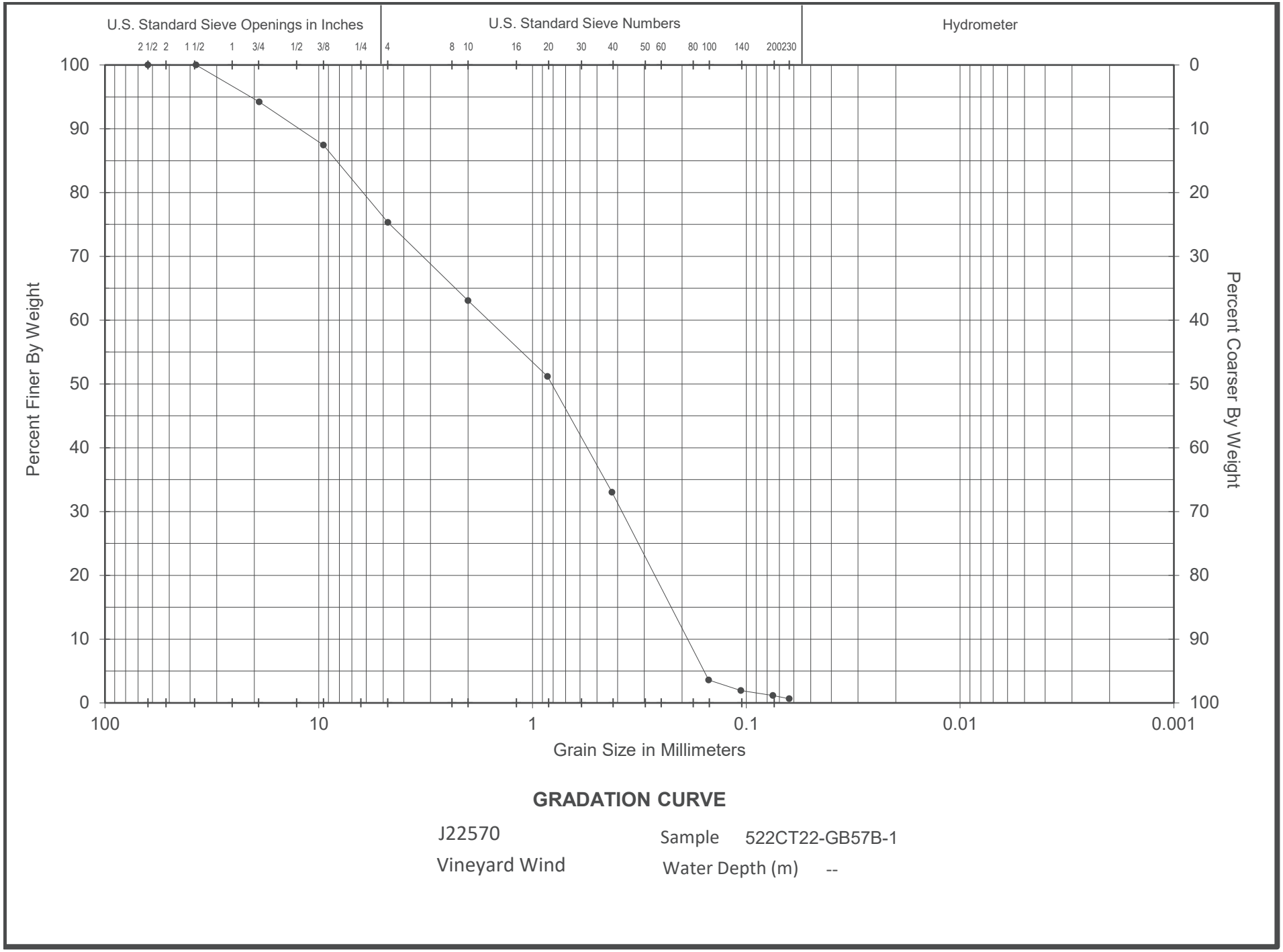
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.21	5.79	
9.5	3/8"	87.44	12.56	
4.75	4	75.32	24.68	
2	10	63.06	36.94	13.76
0.85	20	51.19	48.81	
0.425	40	33.01	66.99	
0.15	100	3.59	96.41	
0.106	140	1.92	98.08	
0.075	200	1.14	98.86	
0.063	230	0.65	99.35	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	63.06
% Passing #230	0.65
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	31.86
% Gravel-Sized Shell	> 2.00 mm	5.08
% Sand	0.0625 - 2.00 mm	62.41
% Silt and Clay	< 0.0625 mm	0.65
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.14
% Medium Sand	0.25 - 0.50 mm	18.18
% Fine Sand	0.0625 - 0.25 mm	32.36

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.01	0.425	3.59	0.150	0.188
D30	30	33.01	0.425	3.59	0.150	0.382
D50	50	51.19	0.850	33.01	0.425	0.812
D60	60	63.06	2.000	51.19	0.850	1.604

Uniformity Coefficient (Cu)	8.523
Coefficient of Curvature (Cc)	0.483



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB57B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB57C-1
Water Depth (m)	--

Grain Size Data

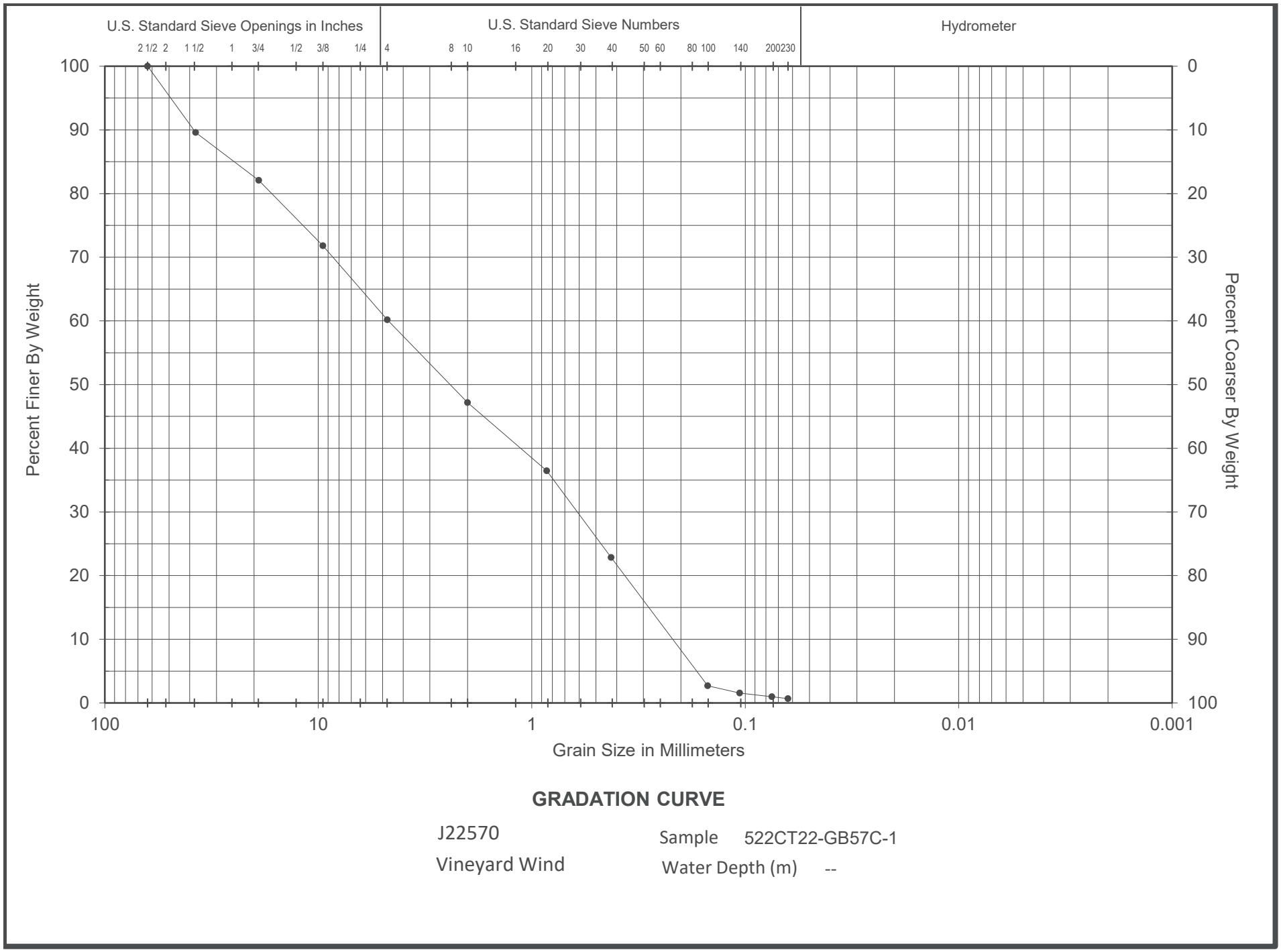
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	89.58	10.42	
19	3/4"	82.08	17.92	
9.5	3/8"	71.79	28.21	
4.75	4	60.17	39.83	
2	10	47.17	52.83	9.23
0.85	20	36.44	63.56	
0.425	40	22.84	77.16	
0.15	100	2.71	97.29	
0.106	140	1.56	98.44	
0.075	200	0.99	99.01	
0.063	230	0.68	99.32	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	47.17
% Passing #230	0.68
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	47.95
% Gravel-Sized Shell	> 2.00 mm	4.88
% Sand	0.0625 - 2.00 mm	46.49
% Silt and Clay	< 0.0625 mm	0.68
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	23.73
% Medium Sand	0.25 - 0.50 mm	13.60
% Fine Sand	0.0625 - 0.25 mm	22.16

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.84	0.425	2.71	0.150	0.219
D30	30	36.44	0.850	22.84	0.425	0.612
D50	50	60.17	4.750	47.17	2.000	2.415
D60	60	60.17	4.750	47.17	2.000	4.697

Uniformity Coefficient (Cu)	21.473
Coefficient of Curvature (Cc)	0.365



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB57C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB58-1
Water Depth (m)	--

Grain Size Data

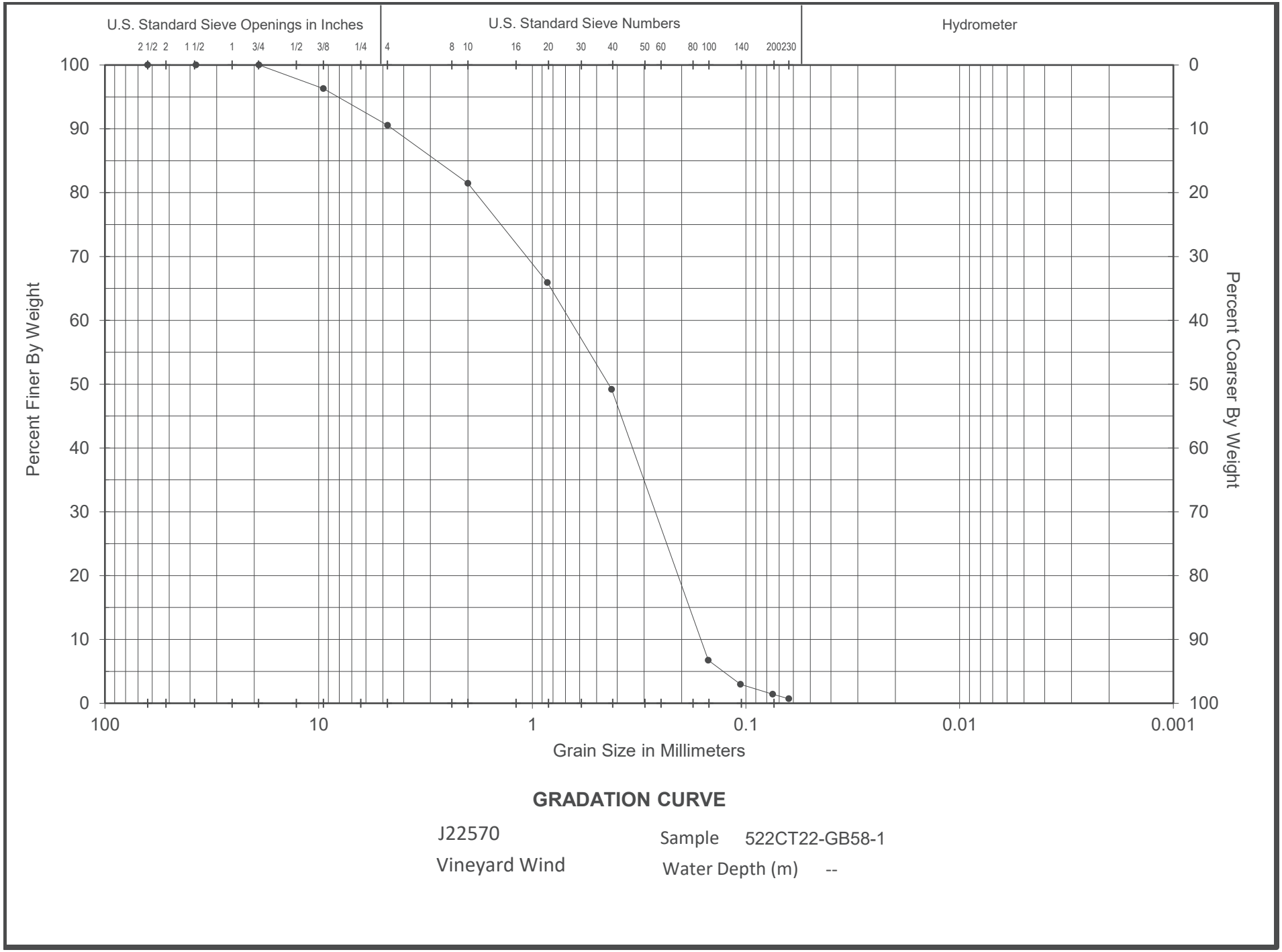
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	96.32	3.68	
4.75	4	90.56	9.44	
2	10	81.45	18.55	55.33
0.85	20	65.92	34.08	
0.425	40	49.19	50.81	
0.15	100	6.73	93.27	
0.106	140	2.98	97.02	
0.075	200	1.42	98.58	
0.063	230	0.70	99.30	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	81.45
% Passing #230	0.70
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	8.29
% Gravel-Sized Shell	> 2.00 mm	10.26
% Sand	0.0625 - 2.00 mm	80.75
% Silt and Clay	< 0.0625 mm	0.70
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.64
% Medium Sand	0.25 - 0.50 mm	16.73
% Fine Sand	0.0625 - 0.25 mm	48.49

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	49.19	0.425	6.73	0.150	0.163
D30	30	49.19	0.425	6.73	0.150	0.265
D50	50	65.92	0.850	49.19	0.425	0.440
D60	60	65.92	0.850	49.19	0.425	0.665

Uniformity Coefficient (Cu)	4.093
Coefficient of Curvature (Cc)	0.652



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB58-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB59A-1
Water Depth (m)	--

Grain Size Data

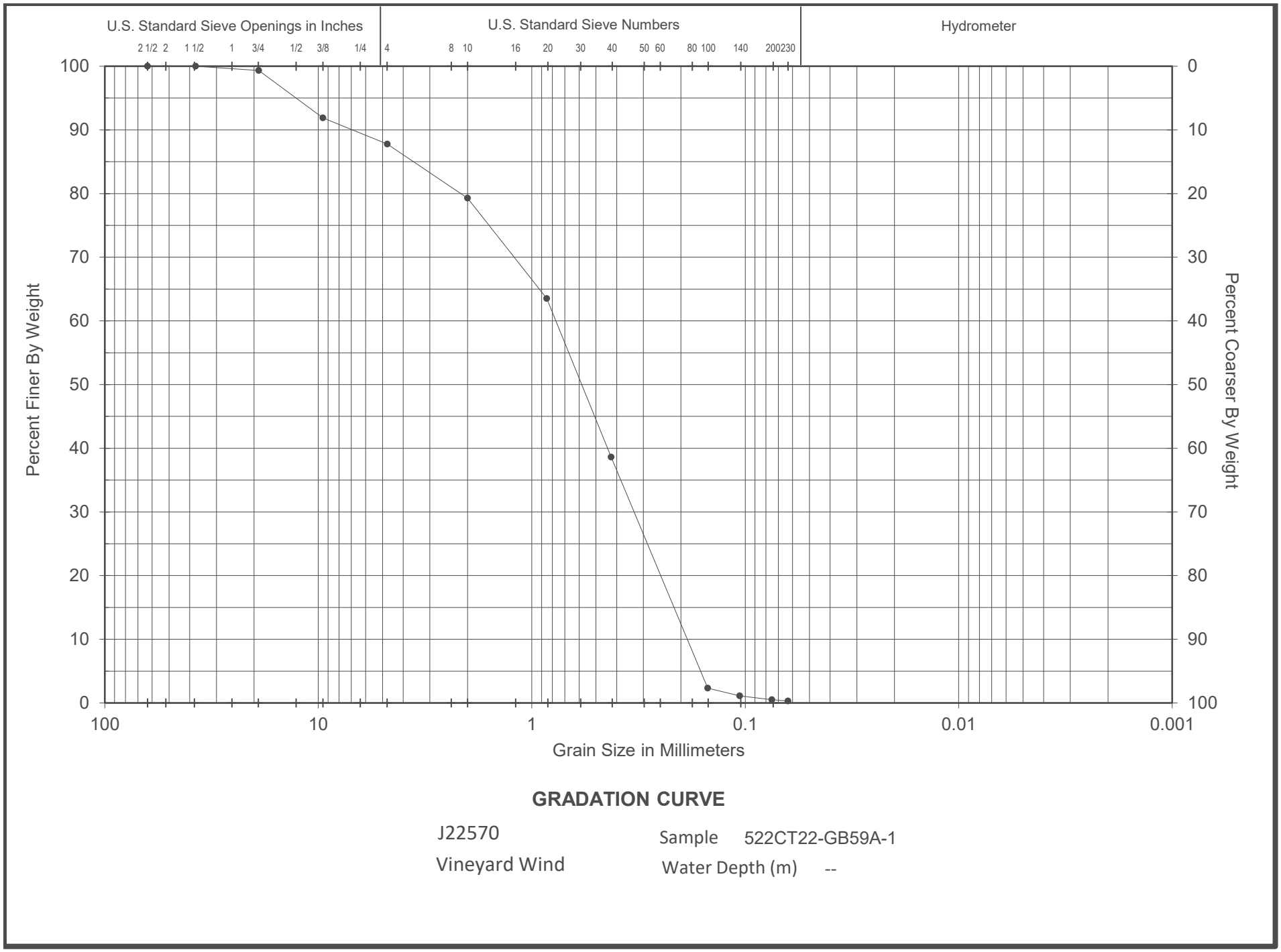
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	99.34	0.66	
9.5	3/8"	91.87	8.13	
4.75	4	87.76	12.24	
2	10	79.27	20.73	53.54
0.85	20	63.50	36.50	
0.425	40	38.60	61.40	
0.15	100	2.33	97.67	
0.106	140	1.13	98.87	
0.075	200	0.50	99.50	
0.063	230	0.31	99.69	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	79.27
% Passing #230	0.31
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	9.63
% Gravel-Sized Shell	> 2.00 mm	11.10
% Sand	0.0625 - 2.00 mm	78.95
% Silt and Clay	< 0.0625 mm	0.31
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.26
% Medium Sand	0.25 - 0.50 mm	24.90
% Fine Sand	0.0625 - 0.25 mm	38.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	38.60	0.425	2.33	0.150	0.187
D30	30	38.60	0.425	2.33	0.150	0.332
D50	50	63.50	0.850	38.60	0.425	0.584
D60	60	63.50	0.850	38.60	0.425	0.771

Uniformity Coefficient (Cu)	4.125
Coefficient of Curvature (Cc)	0.765



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB59A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB59B-1
Water Depth (m)	--

Grain Size Data

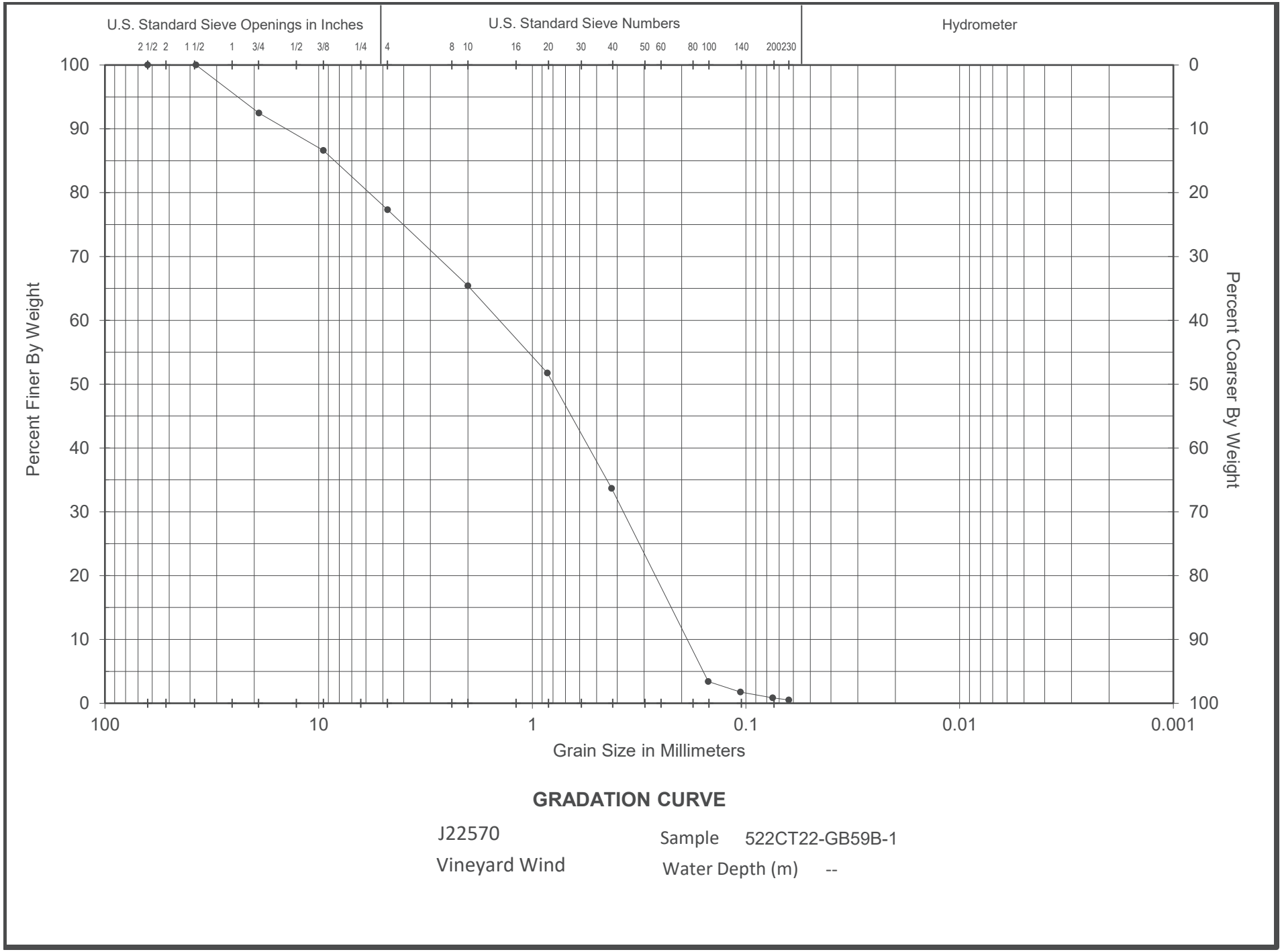
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	92.46	7.54	
9.5	3/8"	86.61	13.39	
4.75	4	77.33	22.67	
2	10	65.42	34.58	4.41
0.85	20	51.75	48.25	
0.425	40	33.65	66.35	
0.15	100	3.40	96.60	
0.106	140	1.75	98.25	
0.075	200	0.86	99.14	
0.063	230	0.52	99.48	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	65.42
% Passing #230	0.52
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	33.06
% Gravel-Sized Shell	> 2.00 mm	1.52
% Sand	0.0625 - 2.00 mm	64.90
% Silt and Clay	< 0.0625 mm	0.52
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	25.58
% Medium Sand	0.25 - 0.50 mm	18.10
% Fine Sand	0.0625 - 0.25 mm	33.13

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	33.65	0.425	3.40	0.150	0.188
D30	30	33.65	0.425	3.40	0.150	0.375
D50	50	51.75	0.850	33.65	0.425	0.795
D60	60	65.42	2.000	51.75	0.850	1.425

Uniformity Coefficient (Cu)	7.568
Coefficient of Curvature (Cc)	0.524



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB59B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB59C-1
Water Depth (m)	--

Grain Size Data

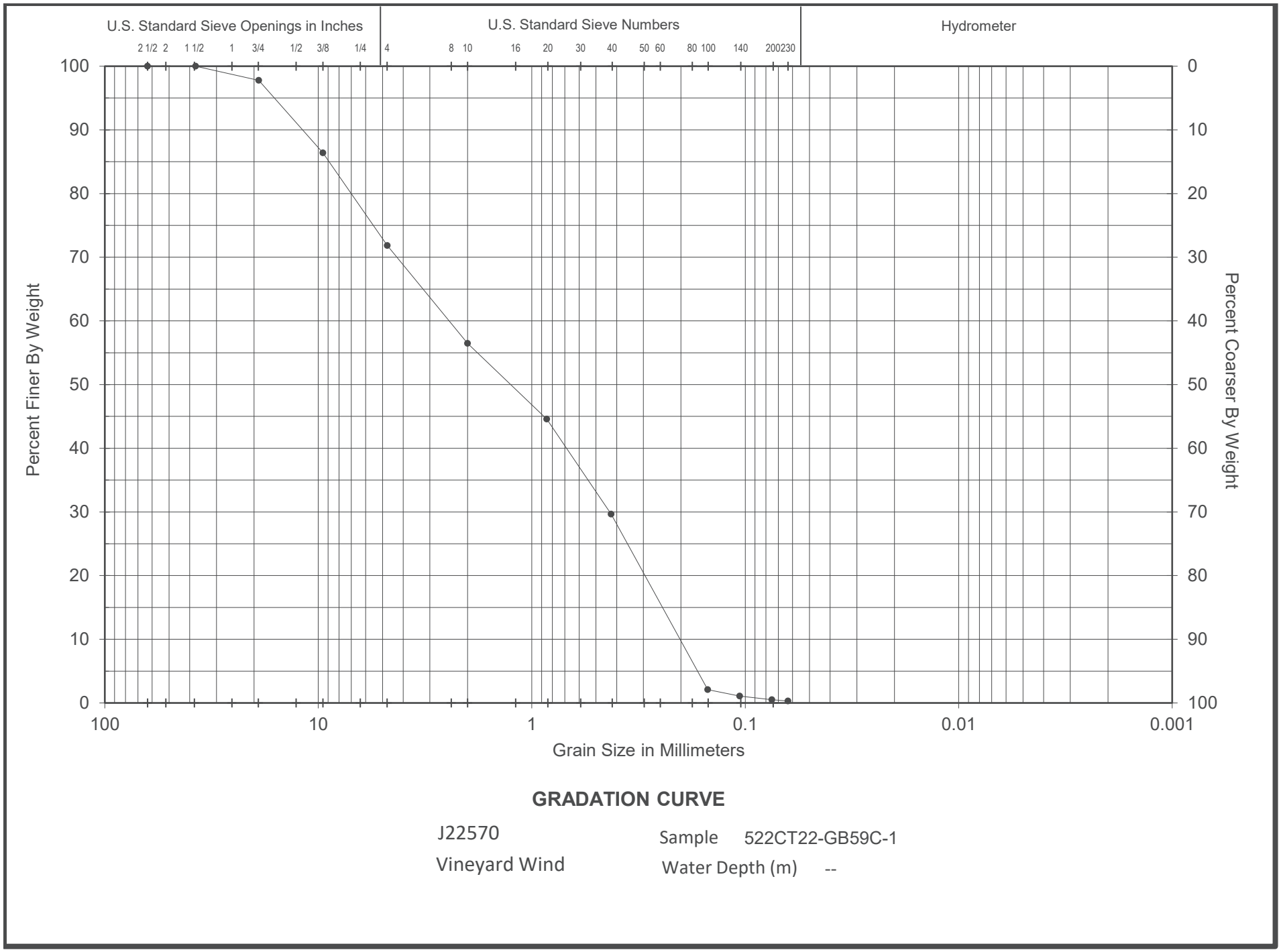
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.78	2.22	
9.5	3/8"	86.39	13.61	
4.75	4	71.84	28.16	
2	10	56.46	43.54	13.75
0.85	20	44.56	55.44	
0.425	40	29.64	70.36	
0.15	100	2.10	97.90	
0.106	140	1.06	98.94	
0.075	200	0.51	99.49	
0.063	230	0.31	99.69	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	56.46
% Passing #230	0.31
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	37.56
% Gravel-Sized Shell	> 2.00 mm	5.99
% Sand	0.0625 - 2.00 mm	56.14
% Silt and Clay	< 0.0625 mm	0.31
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.28
% Medium Sand	0.25 - 0.50 mm	14.92
% Fine Sand	0.0625 - 0.25 mm	29.33

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	29.64	0.425	2.10	0.150	0.202
D30	30	44.56	0.850	29.64	0.425	0.432
D50	50	56.46	2.000	44.56	0.850	1.257
D60	60	71.84	4.750	56.46	2.000	2.441

Uniformity Coefficient (Cu)	12.071
Coefficient of Curvature (Cc)	0.378



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB59C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB60-1
Water Depth (m)	--

Grain Size Data

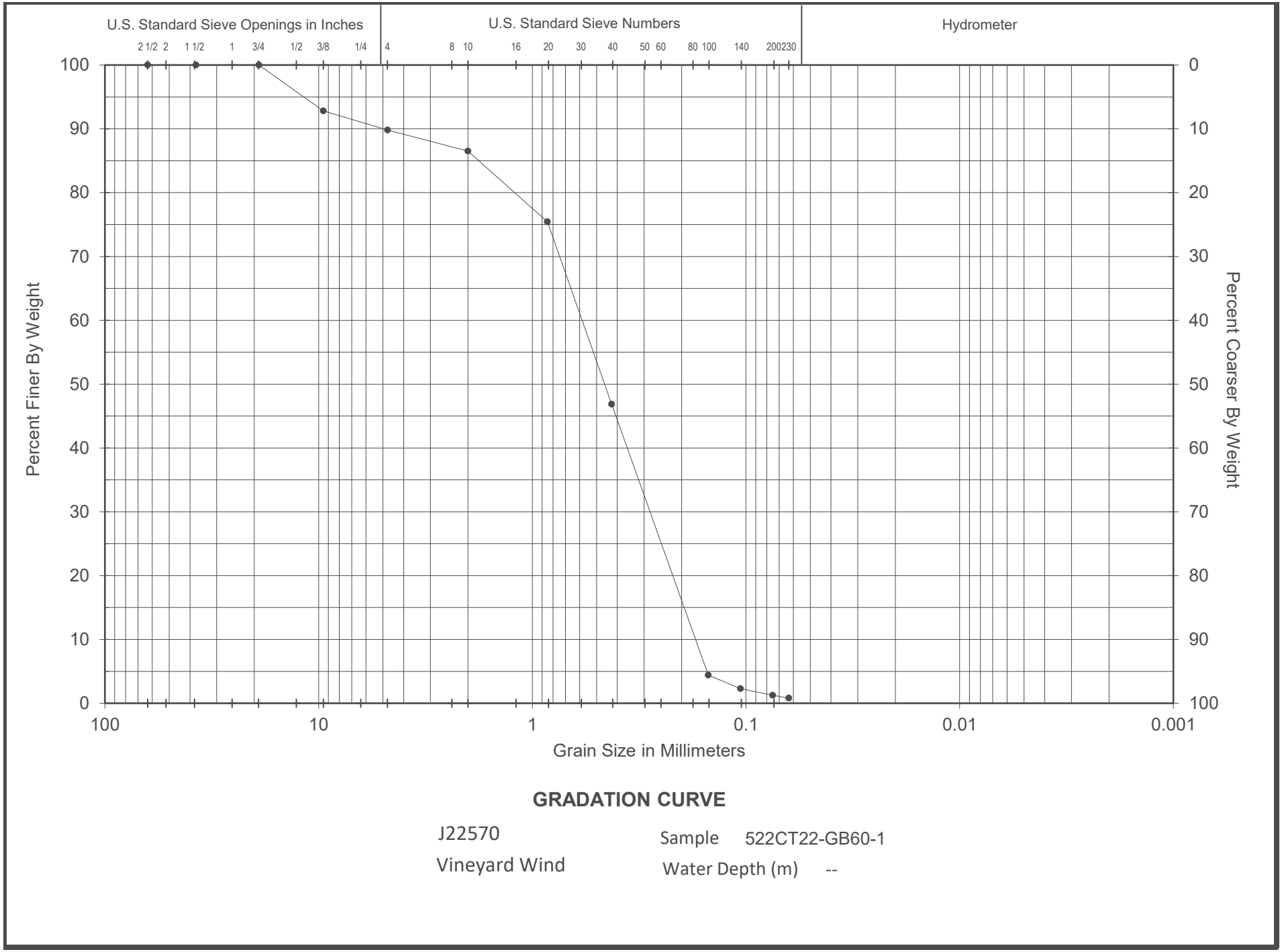
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	92.81	7.19	
4.75	4	89.80	10.20	
2	10	86.51	13.49	14.90
0.85	20	75.43	24.57	
0.425	40	46.86	53.14	
0.15	100	4.40	95.60	
0.106	140	2.30	97.70	
0.075	200	1.25	98.75	
0.063	230	0.82	99.18	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	86.51
% Passing #230	0.82
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	11.48
% Gravel-Sized Shell	> 2.00 mm	2.01
% Sand	0.0625 - 2.00 mm	85.69
% Silt and Clay	< 0.0625 mm	0.82
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.38
% Medium Sand	0.25 - 0.50 mm	28.56
% Fine Sand	0.0625 - 0.25 mm	46.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	46.86	0.425	4.40	0.150	0.172
D30	30	46.86	0.425	4.40	0.150	0.281
D50	50	75.43	0.850	46.86	0.425	0.459
D60	60	75.43	0.850	46.86	0.425	0.585

Uniformity Coefficient (Cu)	3.397
Coefficient of Curvature (Cc)	0.785



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB60-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB61A-1
Water Depth (m)	--

Grain Size Data

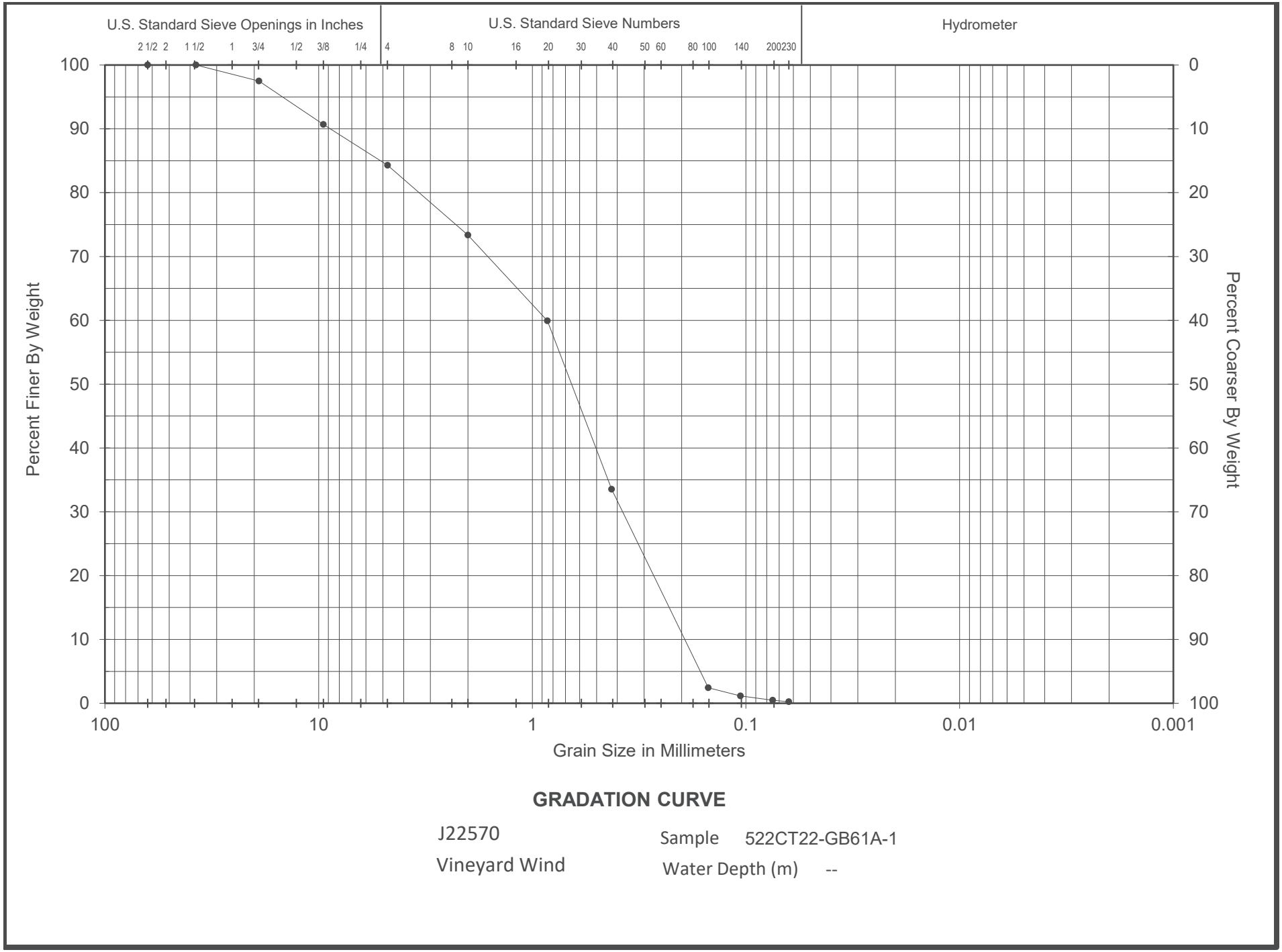
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.49	2.51	
9.5	3/8"	90.70	9.30	
4.75	4	84.28	15.72	
2	10	73.35	26.65	30.96
0.85	20	59.92	40.08	
0.425	40	33.52	66.48	
0.15	100	2.44	97.56	
0.106	140	1.16	98.84	
0.075	200	0.49	99.51	
0.063	230	0.23	99.77	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	73.35
% Passing #230	0.23
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	18.40
% Gravel-Sized Shell	> 2.00 mm	8.25
% Sand	0.0625 - 2.00 mm	73.11
% Silt and Clay	< 0.0625 mm	0.23
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.36
% Medium Sand	0.25 - 0.50 mm	26.39
% Fine Sand	0.0625 - 0.25 mm	33.29

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	33.52	0.425	2.44	0.150	0.193
D30	30	33.52	0.425	2.44	0.150	0.378
D50	50	59.92	0.850	33.52	0.425	0.655
D60	60	73.35	2.000	59.92	0.850	0.855

Uniformity Coefficient (Cu)	4.422
Coefficient of Curvature (Cc)	0.864



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB61A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB61B-1
Water Depth (m)	--

Grain Size Data

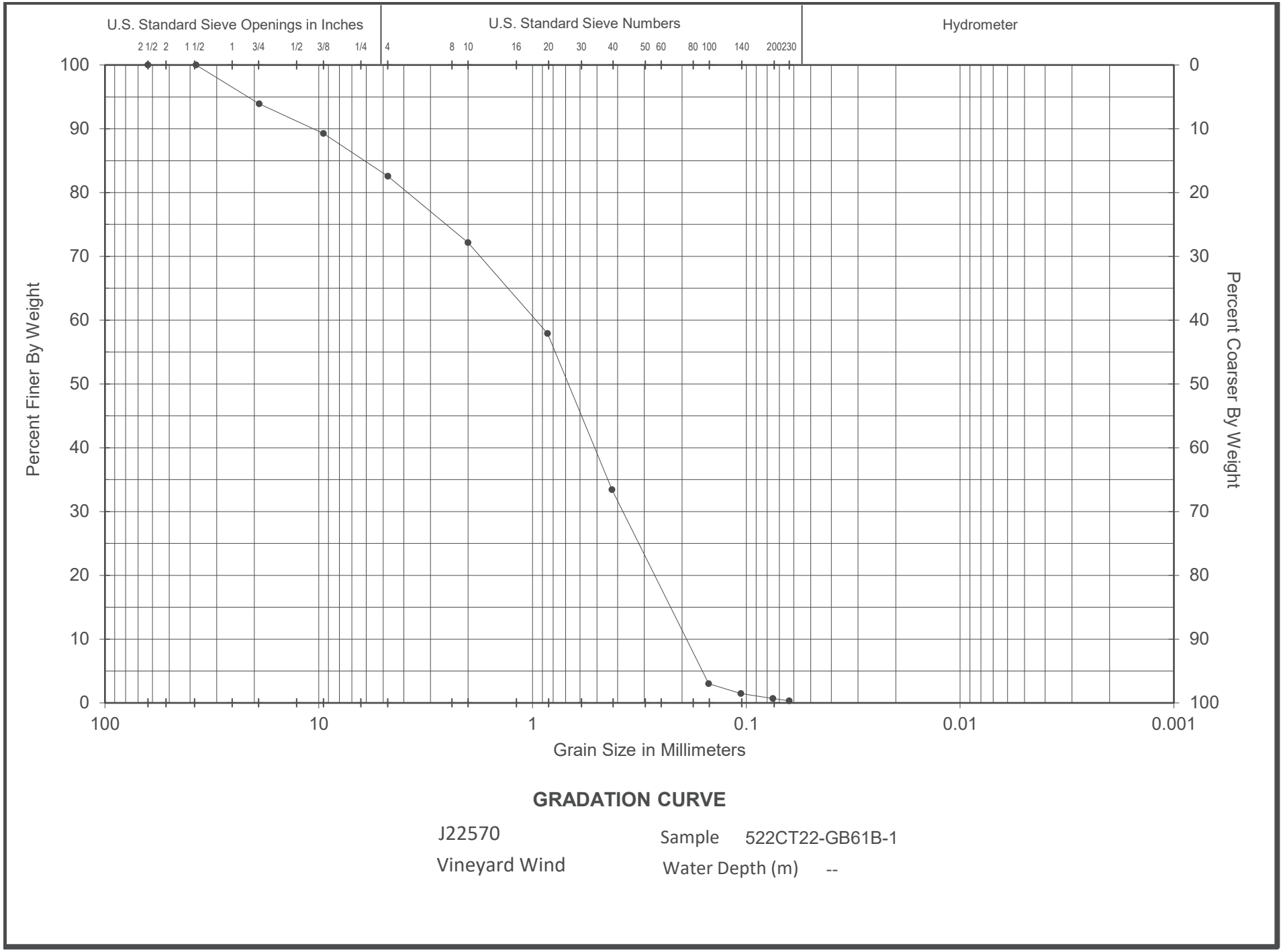
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	93.92	6.08	
9.5	3/8"	89.25	10.75	
4.75	4	82.55	17.45	
2	10	72.16	27.84	15.44
0.85	20	57.91	42.09	
0.425	40	33.44	66.56	
0.15	100	3.00	97.00	
0.106	140	1.45	98.55	
0.075	200	0.68	99.32	
0.063	230	0.32	99.68	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	72.16
% Passing #230	0.32
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	23.54
% Gravel-Sized Shell	> 2.00 mm	4.30
% Sand	0.0625 - 2.00 mm	71.83
% Silt and Clay	< 0.0625 mm	0.32
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.64
% Medium Sand	0.25 - 0.50 mm	24.47
% Fine Sand	0.0625 - 0.25 mm	33.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	33.44	0.425	3.00	0.150	0.191
D30	30	33.44	0.425	3.00	0.150	0.378
D50	50	57.91	0.850	33.44	0.425	0.679
D60	60	72.16	2.000	57.91	0.850	0.964

Uniformity Coefficient (Cu)	5.057
Coefficient of Curvature (Cc)	0.777



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB61B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB61C-1
Water Depth (m)	--

Grain Size Data

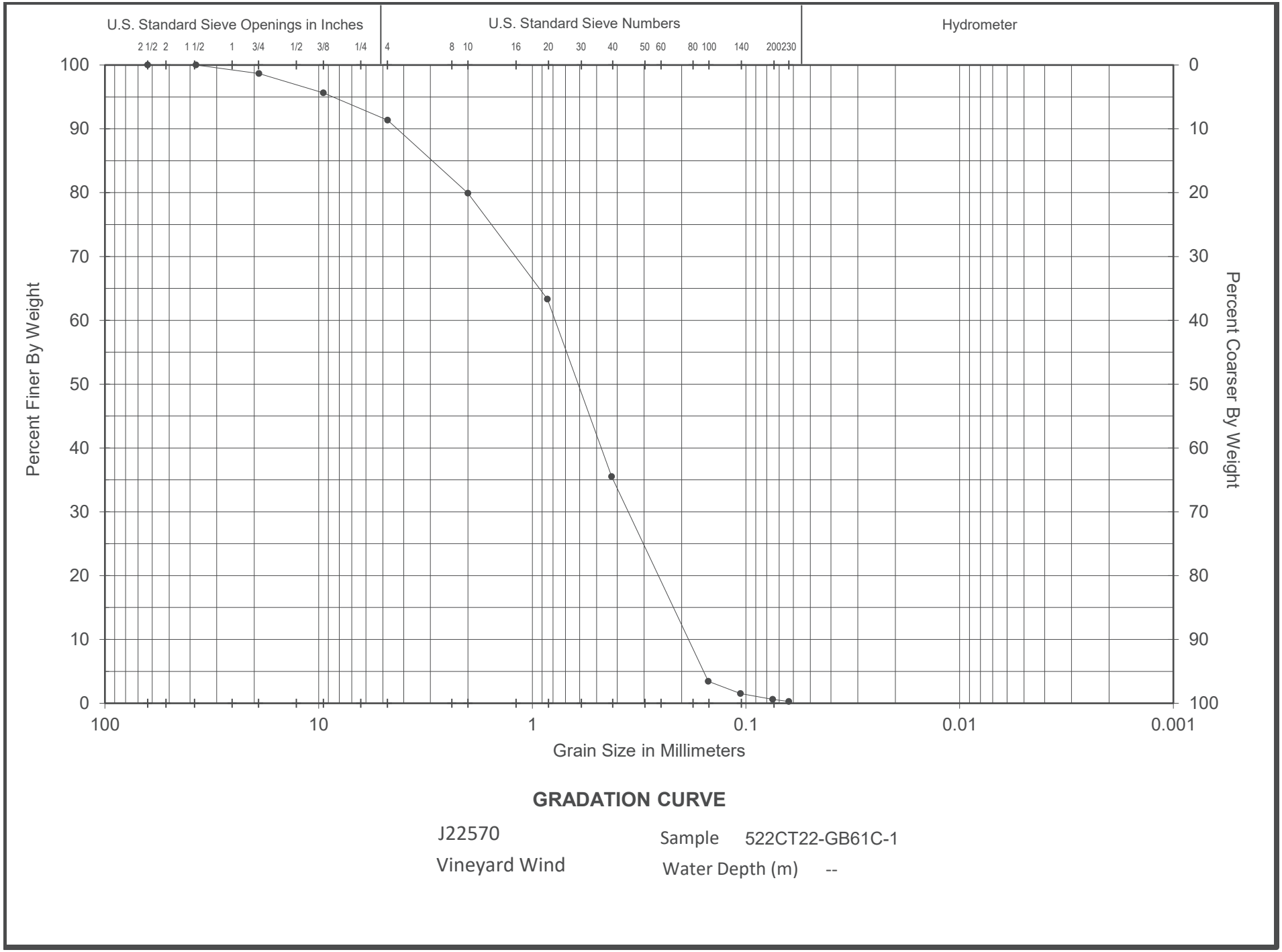
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.66	1.34	
9.5	3/8"	95.64	4.36	
4.75	4	91.36	8.64	
2	10	79.92	20.08	16.71
0.85	20	63.32	36.68	
0.425	40	35.53	64.47	
0.15	100	3.44	96.56	
0.106	140	1.53	98.47	
0.075	200	0.59	99.41	
0.063	230	0.28	99.72	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	79.92
% Passing #230	0.28
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	16.72
% Gravel-Sized Shell	> 2.00 mm	3.36
% Sand	0.0625 - 2.00 mm	79.65
% Silt and Clay	< 0.0625 mm	0.28
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.04
% Medium Sand	0.25 - 0.50 mm	27.79
% Fine Sand	0.0625 - 0.25 mm	35.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	35.53	0.425	3.44	0.150	0.186
D30	30	35.53	0.425	3.44	0.150	0.355
D50	50	63.32	0.850	35.53	0.425	0.610
D60	60	63.32	0.850	35.53	0.425	0.782

Uniformity Coefficient (Cu)	4.216
Coefficient of Curvature (Cc)	0.869



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB61C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB62-1
Water Depth (m)	--

Grain Size Data

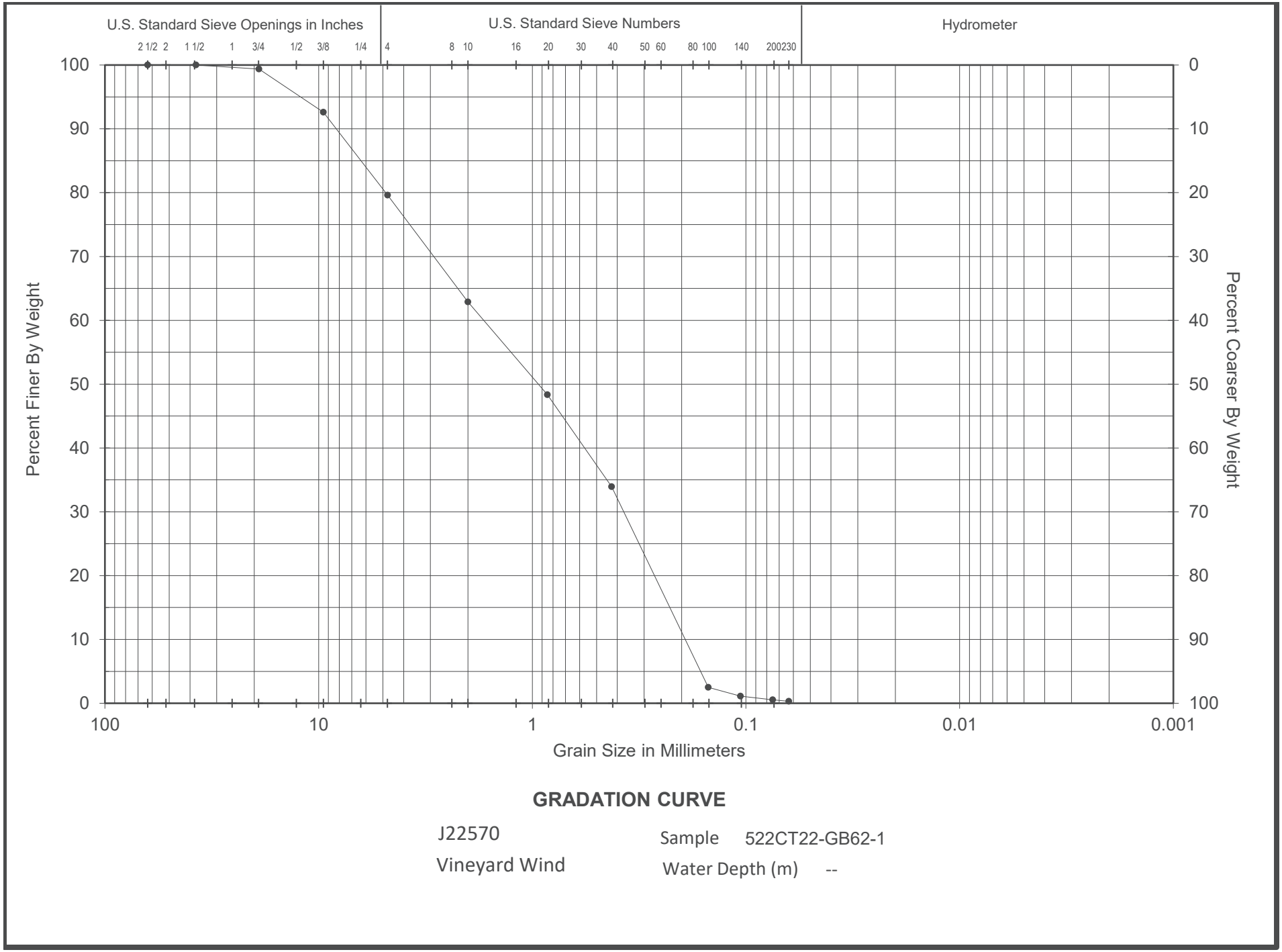
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	99.39	0.61	
9.5	3/8"	92.61	7.39	
4.75	4	79.61	20.39	
2	10	62.89	37.11	21.95
0.85	20	48.33	51.67	
0.425	40	33.94	66.06	
0.15	100	2.51	97.49	
0.106	140	1.12	98.88	
0.075	200	0.54	99.46	
0.063	230	0.31	99.69	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	62.89
% Passing #230	0.31
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	28.97
% Gravel-Sized Shell	> 2.00 mm	8.14
% Sand	0.0625 - 2.00 mm	62.58
% Silt and Clay	< 0.0625 mm	0.31
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	31.28
% Medium Sand	0.25 - 0.50 mm	14.39
% Fine Sand	0.0625 - 0.25 mm	33.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.94	0.425	2.51	0.150	0.192
D30	30	33.94	0.425	2.51	0.150	0.373
D50	50	62.89	2.000	48.33	0.850	0.937
D60	60	62.89	2.000	48.33	0.850	1.687

Uniformity Coefficient (Cu)	8.777
Coefficient of Curvature (Cc)	0.429



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB62-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB63A-1
Water Depth (m)	--

Grain Size Data

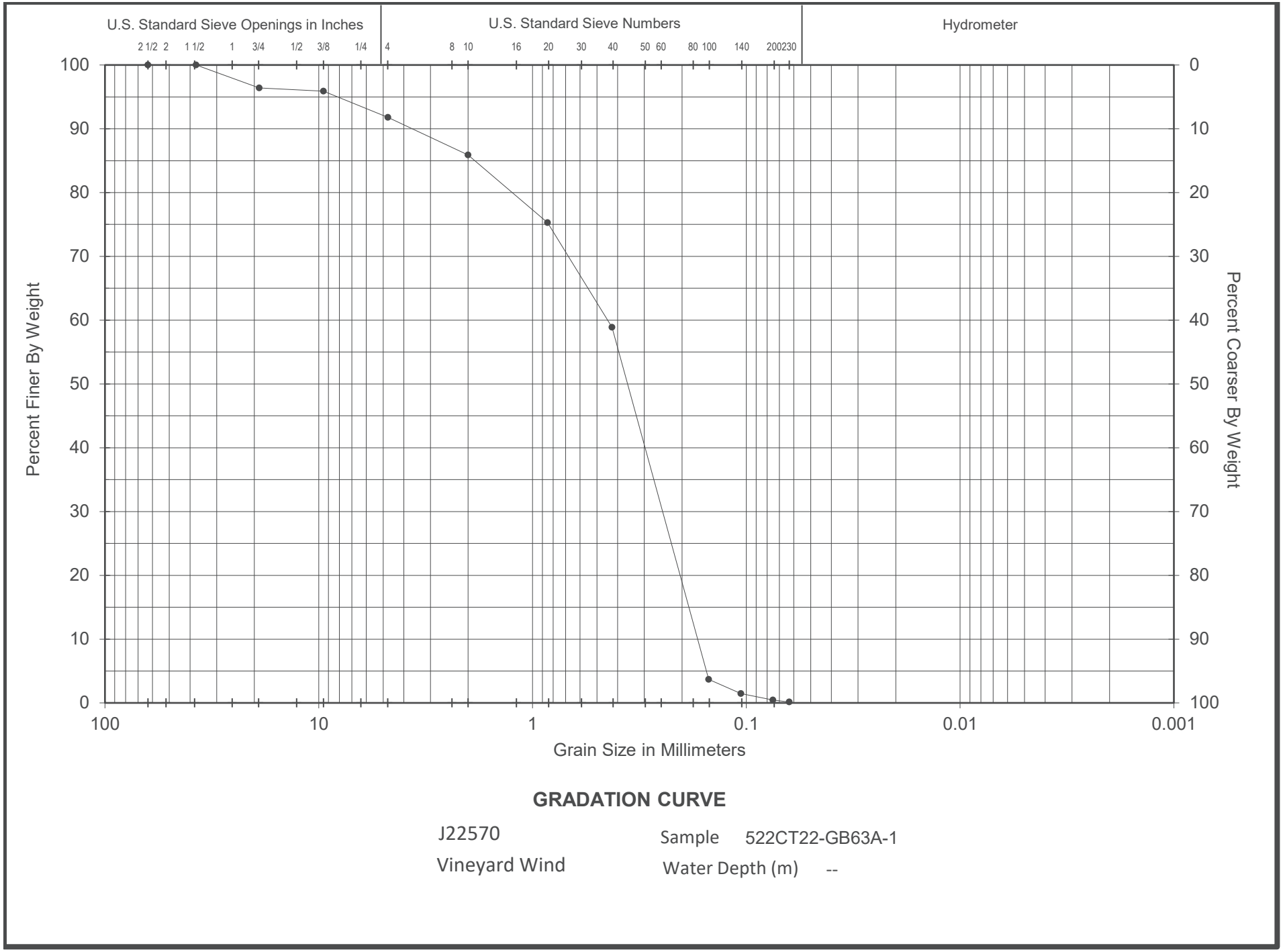
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	96.41	3.59	
9.5	3/8"	95.88	4.12	
4.75	4	91.77	8.23	
2	10	85.89	14.11	16.67
0.85	20	75.30	24.70	
0.425	40	58.88	41.12	
0.15	100	3.68	96.32	
0.106	140	1.47	98.53	
0.075	200	0.44	99.56	
0.063	230	0.14	99.86	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	85.89
% Passing #230	0.14
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	11.76
% Gravel-Sized Shell	> 2.00 mm	2.35
% Sand	0.0625 - 2.00 mm	85.75
% Silt and Clay	< 0.0625 mm	0.14
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	16.48
% Medium Sand	0.25 - 0.50 mm	16.42
% Fine Sand	0.0625 - 0.25 mm	58.74

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	58.88	0.425	3.68	0.150	0.169
D30	30	58.88	0.425	3.68	0.150	0.246
D50	50	58.88	0.425	3.68	0.150	0.359
D60	60	75.30	0.850	58.88	0.425	0.446

Uniformity Coefficient (Cu)	2.636
Coefficient of Curvature (Cc)	0.807



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB63A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB63B-1
Water Depth (m)	--

Grain Size Data

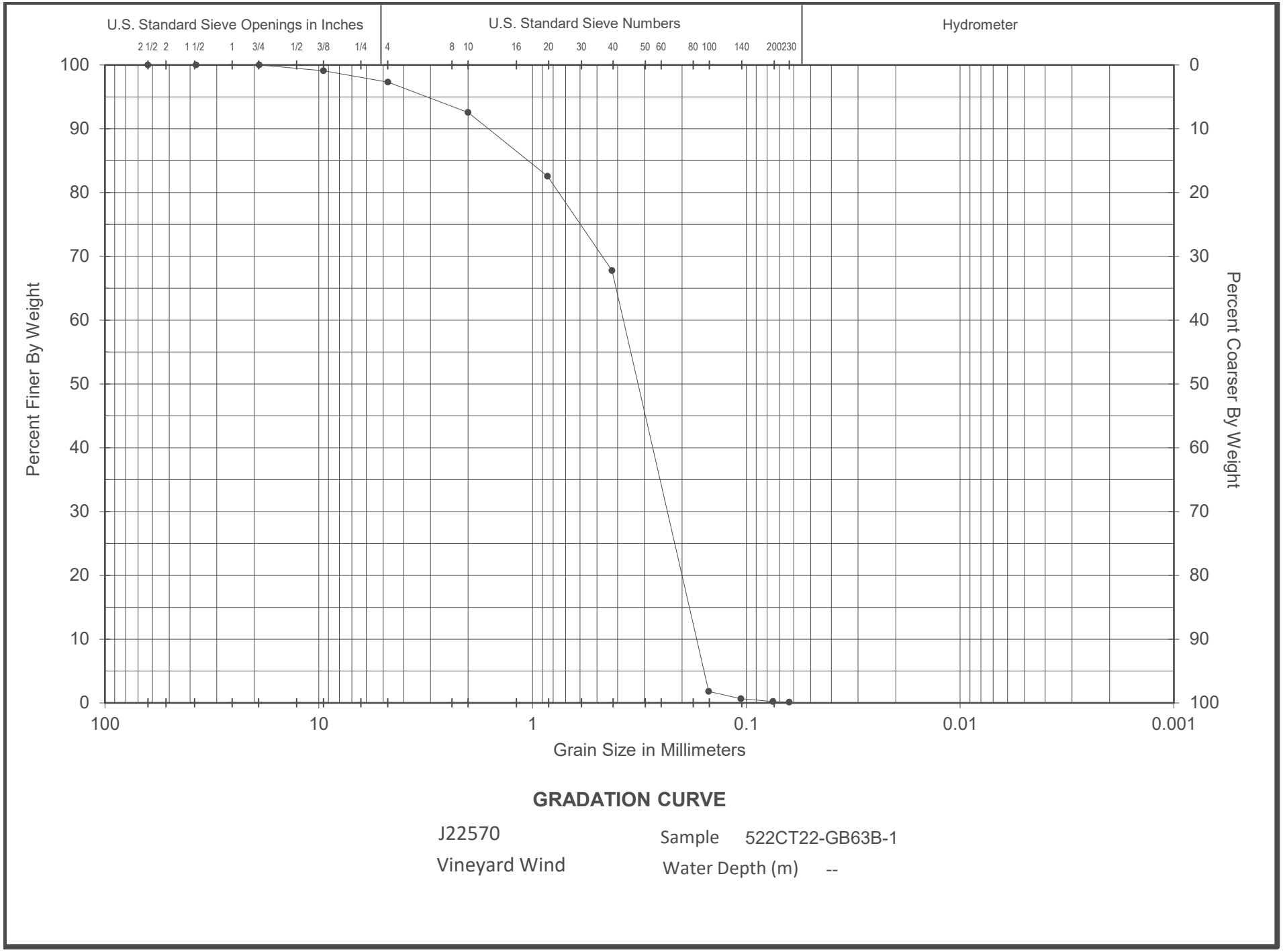
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.09	0.91	
4.75	4	97.30	2.70	
2	10	92.58	7.42	35.23
0.85	20	82.56	17.44	
0.425	40	67.79	32.21	
0.15	100	1.81	98.19	
0.106	140	0.66	99.34	
0.075	200	0.23	99.77	
0.063	230	0.11	99.89	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	92.58
% Passing #230	0.11
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.81
% Gravel-Sized Shell	> 2.00 mm	2.62
% Sand	0.0625 - 2.00 mm	92.47
% Silt and Clay	< 0.0625 mm	0.11
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.73
% Medium Sand	0.25 - 0.50 mm	14.78
% Fine Sand	0.0625 - 0.25 mm	67.68

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	67.79	0.425	1.81	0.150	0.171
D30	30	67.79	0.425	1.81	0.150	0.234
D50	50	67.79	0.425	1.81	0.150	0.321
D60	60	67.79	0.425	1.81	0.150	0.376

Uniformity Coefficient (Cu)	2.202
Coefficient of Curvature (Cc)	0.854



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB63B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB63C-1
Water Depth (m)	--

Grain Size Data

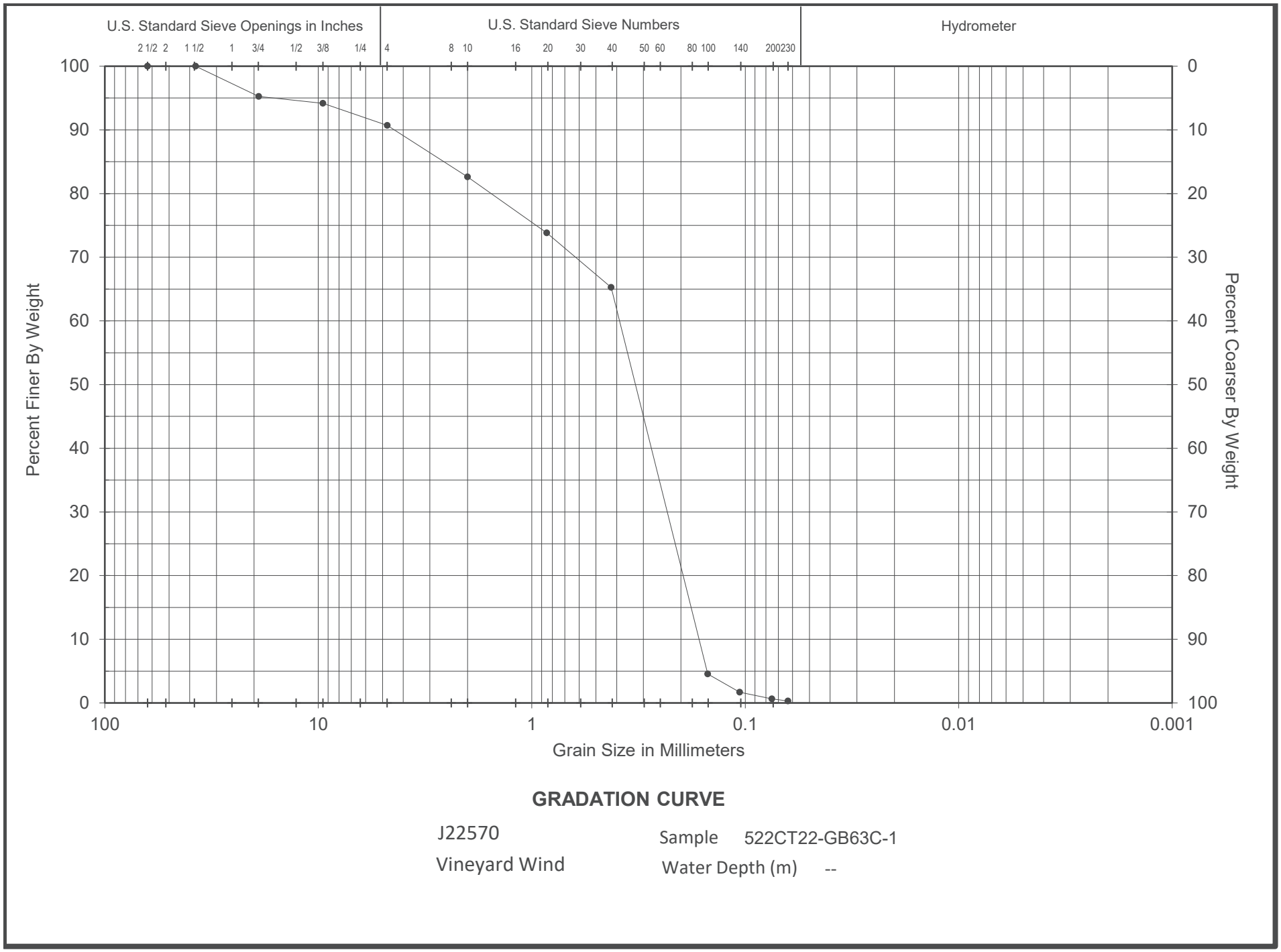
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	95.25	4.75	
9.5	3/8"	94.19	5.81	
4.75	4	90.71	9.29	
2	10	82.62	17.38	25.65
0.85	20	73.83	26.17	
0.425	40	65.27	34.73	
0.15	100	4.55	95.45	
0.106	140	1.68	98.32	
0.075	200	0.65	99.35	
0.063	230	0.30	99.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	82.62
% Passing #230	0.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	12.92
% Gravel-Sized Shell	> 2.00 mm	4.46
% Sand	0.0625 - 2.00 mm	82.32
% Silt and Clay	< 0.0625 mm	0.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	16.87
% Medium Sand	0.25 - 0.50 mm	8.56
% Fine Sand	0.0625 - 0.25 mm	64.97

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	65.27	0.425	4.55	0.150	0.165
D30	30	65.27	0.425	4.55	0.150	0.232
D50	50	65.27	0.425	4.55	0.150	0.327
D60	60	65.27	0.425	4.55	0.150	0.388

Uniformity Coefficient (Cu)	2.357
Coefficient of Curvature (Cc)	0.842



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB63C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB64-1
Water Depth (m)	--

Grain Size Data

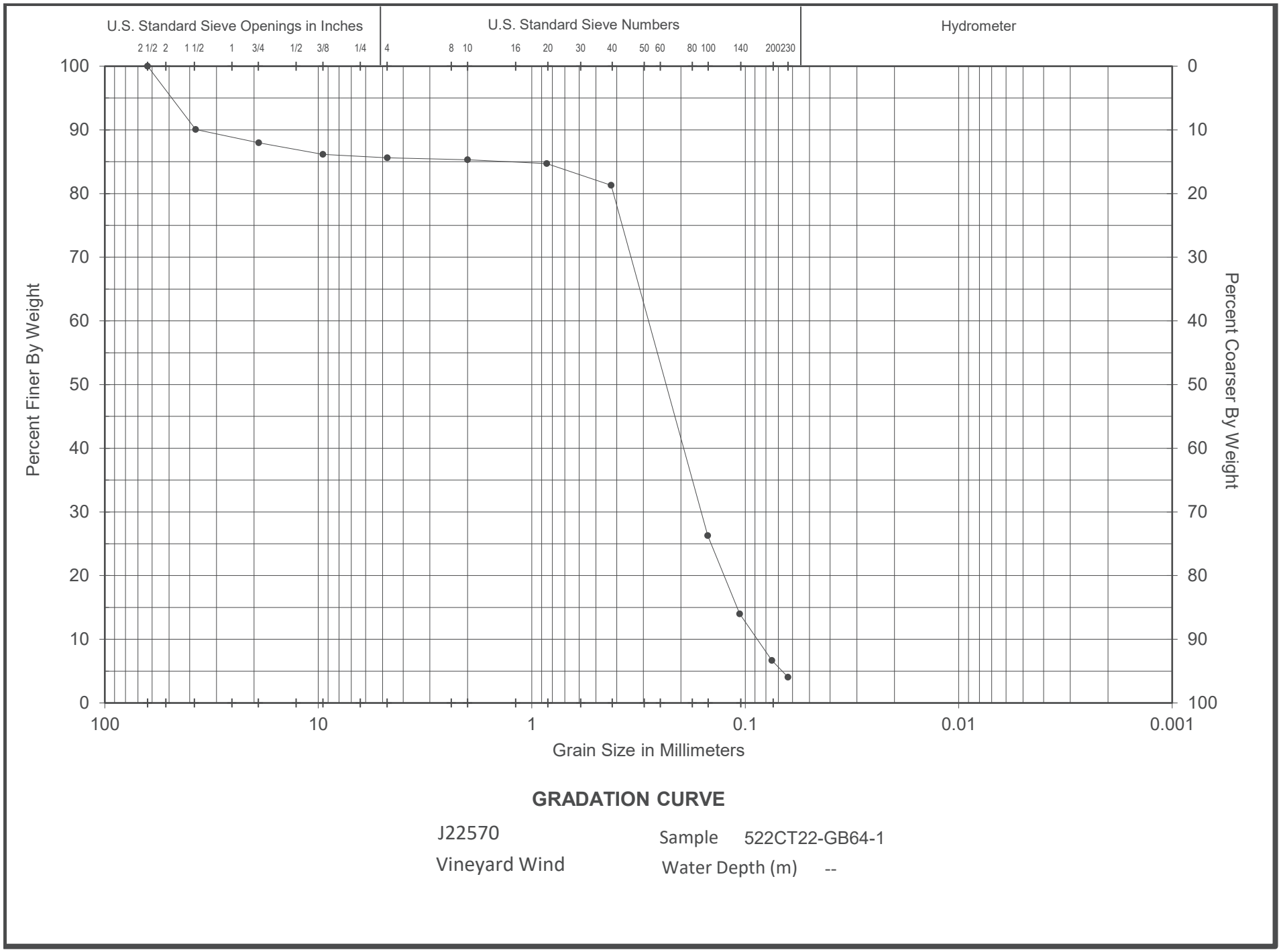
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	90.06	9.94	
19	3/4"	87.96	12.04	
9.5	3/8"	86.17	13.83	
4.75	4	85.62	14.38	
2	10	85.30	14.70	92.91
0.85	20	84.70	15.30	
0.425	40	81.31	18.69	
0.15	100	26.30	73.70	
0.106	140	13.99	86.01	
0.075	200	6.67	93.33	
0.063	230	4.05	95.95	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	85.30
% Passing #230	4.05
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.04
% Gravel-Sized Shell	> 2.00 mm	13.66
% Sand	0.0625 - 2.00 mm	81.25
% Silt and Clay	< 0.0625 mm	4.05
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.92
% Medium Sand	0.25 - 0.50 mm	3.39
% Fine Sand	0.0625 - 0.25 mm	77.26

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.99	0.106	6.67	0.075	0.088
D30	30	81.31	0.425	26.30	0.150	0.161
D50	50	81.31	0.425	26.30	0.150	0.235
D60	60	81.31	0.425	26.30	0.150	0.284

Uniformity Coefficient (Cu)	3.234
Coefficient of Curvature (Cc)	1.039



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB64-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB65A-1
Water Depth (m)	--

Grain Size Data

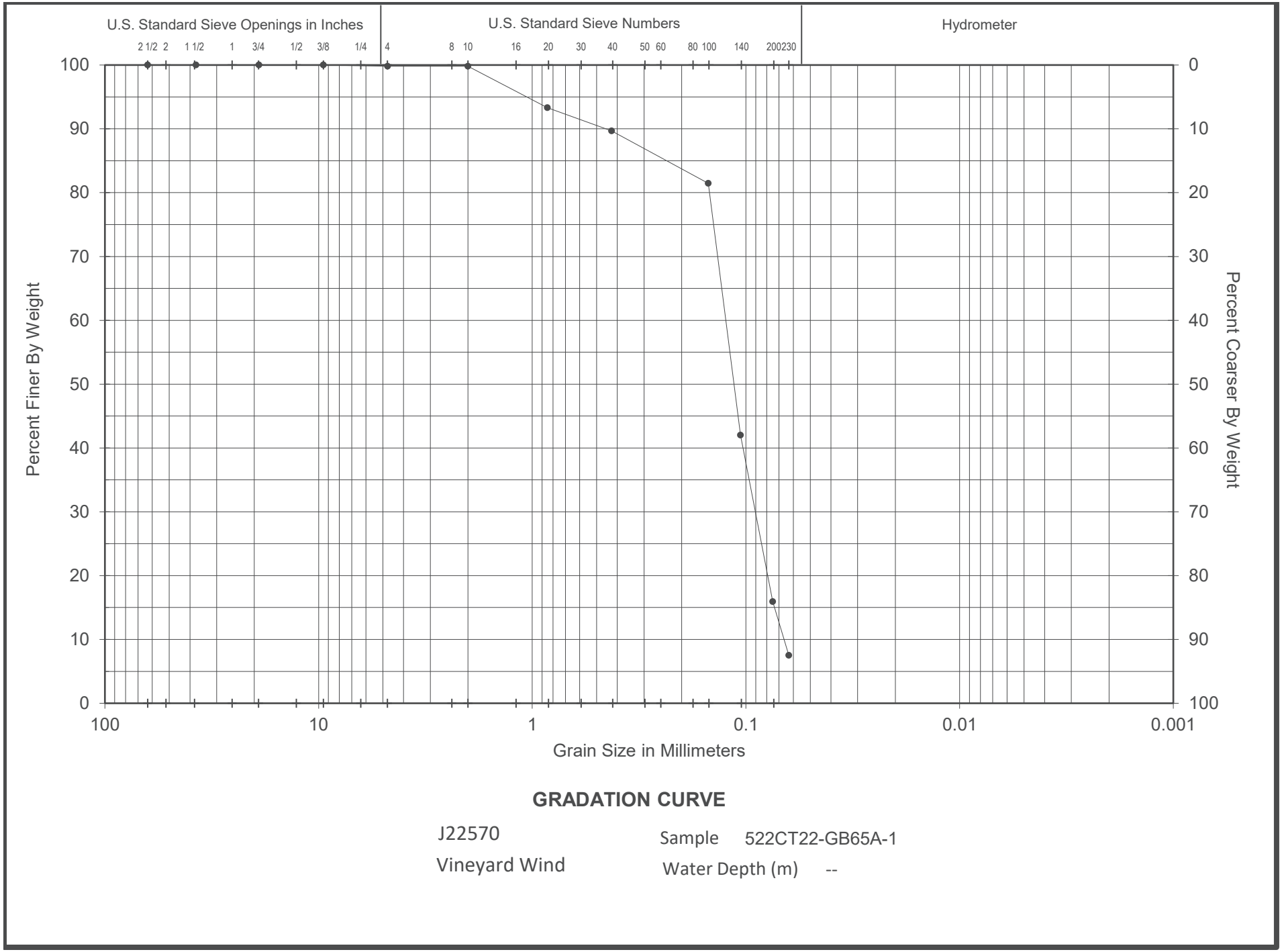
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.82	0.18	
2	10	99.82	0.18	35.00
0.85	20	93.32	6.68	
0.425	40	89.68	10.32	
0.15	100	81.46	18.54	
0.106	140	42.03	57.97	
0.075	200	15.91	84.09	
0.063	230	7.51	92.49	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.82
% Passing #230	7.51
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.12
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	92.31
% Silt and Clay	< 0.0625 mm	7.51
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.50
% Medium Sand	0.25 - 0.50 mm	3.64
% Fine Sand	0.0625 - 0.25 mm	82.17

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.91	0.075	7.51	0.063	0.066
D30	30	42.03	0.106	15.91	0.075	0.090
D50	50	81.46	0.150	42.03	0.106	0.114
D60	60	81.46	0.150	42.03	0.106	0.124

Uniformity Coefficient (Cu)	1.872
Coefficient of Curvature (Cc)	0.992



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB65A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB65B-1
Water Depth (m)	--

Grain Size Data

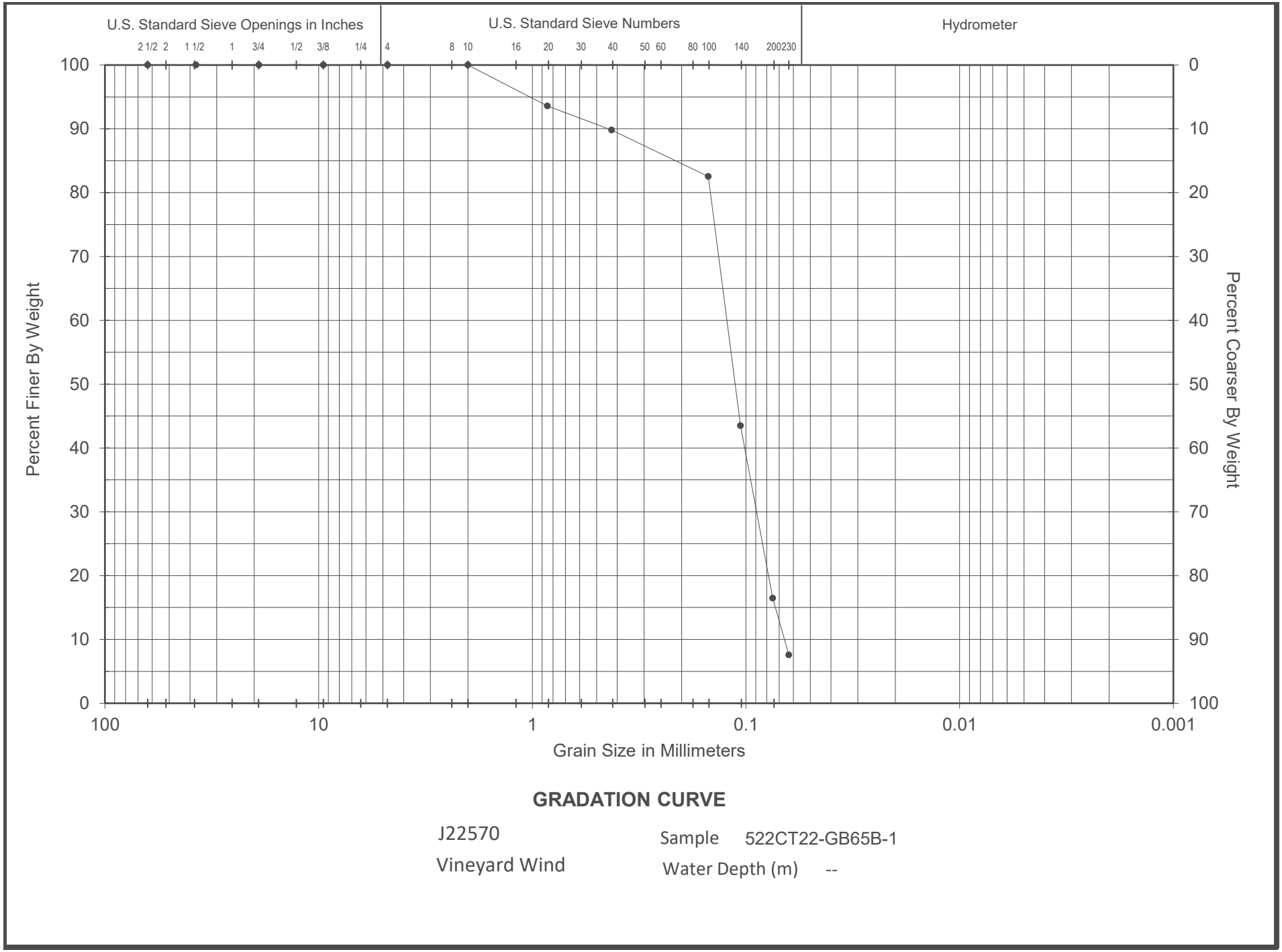
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	93.59	6.41	
0.425	40	89.82	10.18	
0.15	100	82.53	17.47	
0.106	140	43.49	56.51	
0.075	200	16.47	83.53	
0.063	230	7.56	92.44	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	7.56
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	92.44
% Silt and Clay	< 0.0625 mm	7.56
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.41
% Medium Sand	0.25 - 0.50 mm	3.78
% Fine Sand	0.0625 - 0.25 mm	82.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	16.47	0.075	7.56	0.063	0.066
D30	30	43.49	0.106	16.47	0.075	0.089
D50	50	82.53	0.150	43.49	0.106	0.112
D60	60	82.53	0.150	43.49	0.106	0.123

Uniformity Coefficient (Cu)	1.858
Coefficient of Curvature (Cc)	0.980



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB65B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB65C-1
Water Depth (m)	--

Grain Size Data

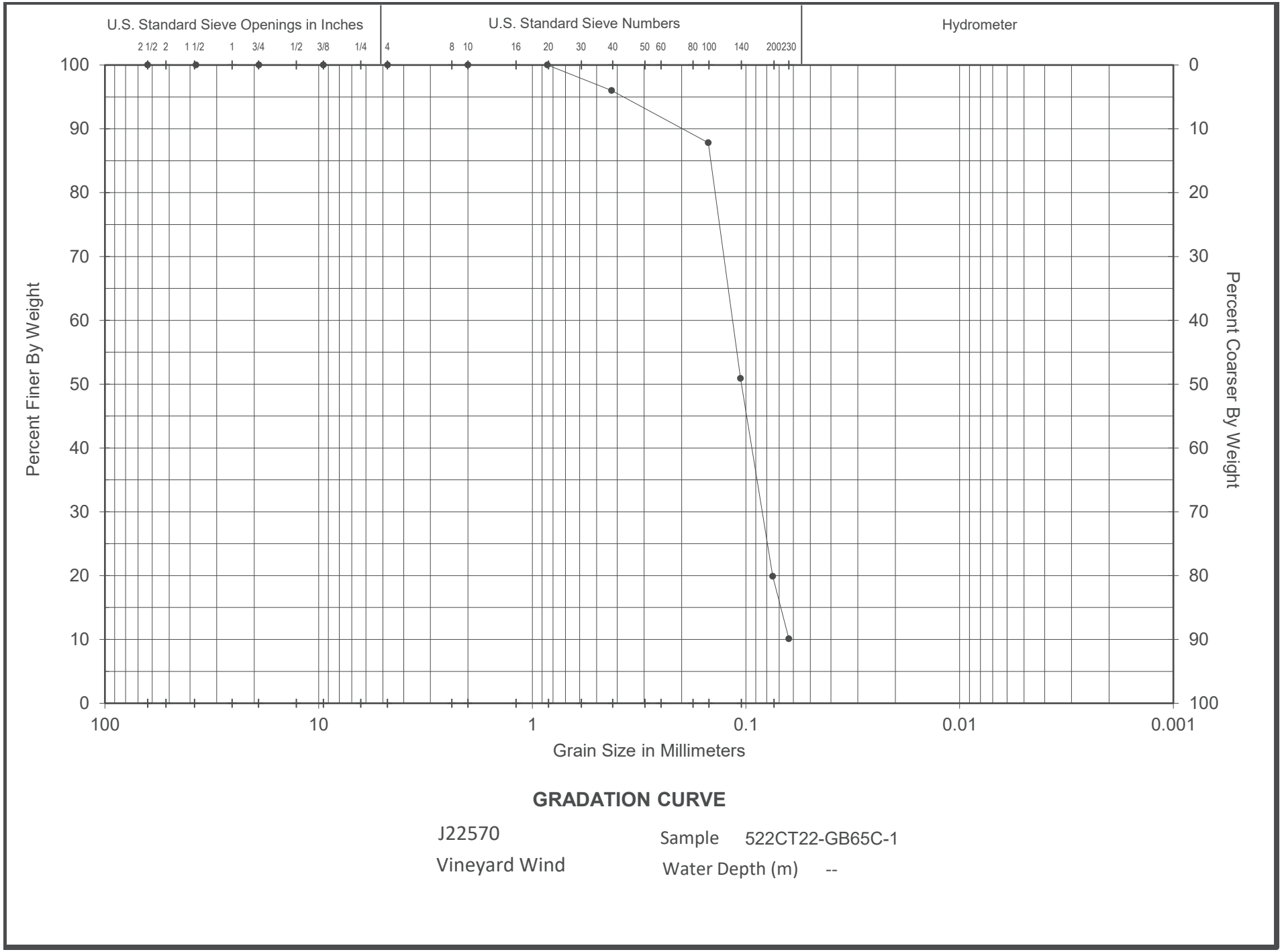
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	100.00	0.00	
0.425	40	95.99	4.01	
0.15	100	87.83	12.17	
0.106	140	50.89	49.11	
0.075	200	19.91	80.09	
0.063	230	10.11	89.89	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	10.11
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	89.89
% Silt and Clay	< 0.0625 mm	10.11
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.00
% Medium Sand	0.25 - 0.50 mm	4.01
% Fine Sand	0.0625 - 0.25 mm	85.88

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	10.11	0.063	#N/A	#N/A	#N/A
D30	30	50.89	0.106	19.91	0.075	0.084
D50	50	50.89	0.106	19.91	0.075	0.105
D60	60	87.83	0.150	50.89	0.106	0.115

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB65C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB66-1
Water Depth (m)	--

Grain Size Data

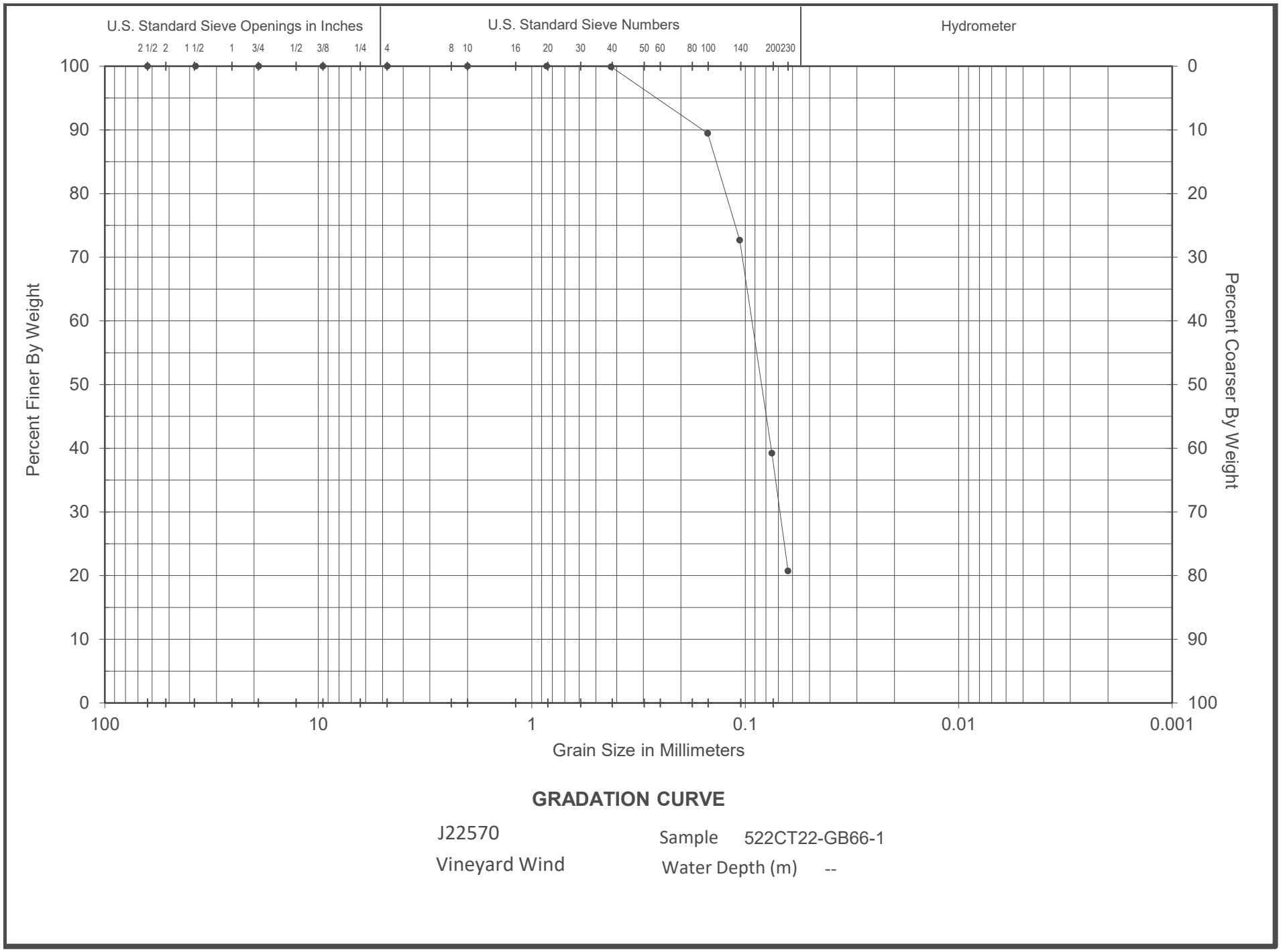
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.92	0.08	
0.15	100	89.44	10.56	
0.106	140	72.66	27.34	
0.075	200	39.21	60.79	
0.063	230	20.71	79.29	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	20.71
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	79.29
% Silt and Clay	< 0.0625 mm	20.71
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.08
% Fine Sand	0.0625 - 0.25 mm	79.20

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.71	0.063	#N/A	#N/A	#N/A
D30	30	39.21	0.075	20.71	0.063	0.069
D50	50	72.66	0.106	39.21	0.075	0.084
D60	60	72.66	0.106	39.21	0.075	0.093

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB66-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB67A-1
Water Depth (m)	--

Grain Size Data

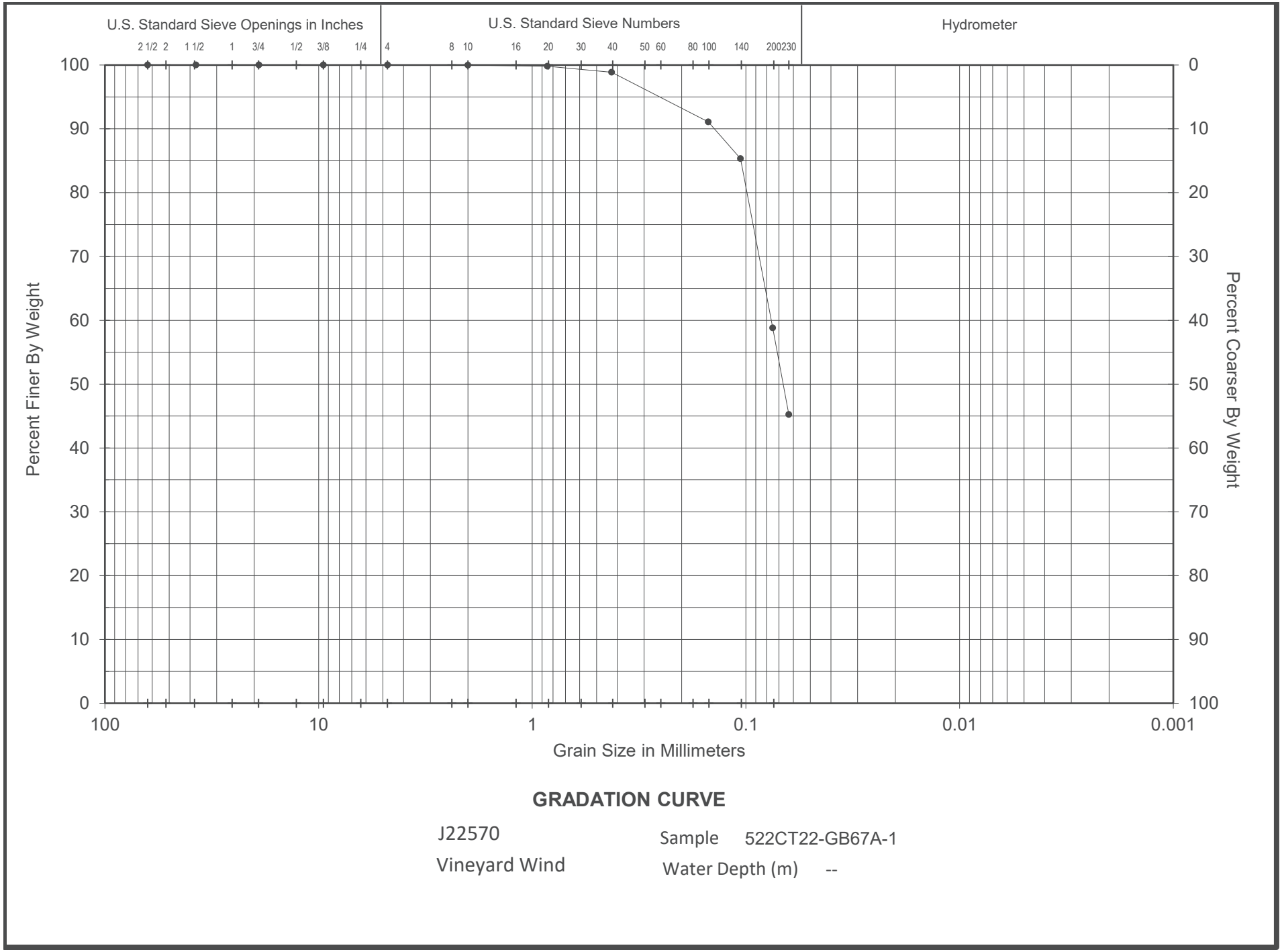
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	100.00
0.85	20	99.81	0.19	
0.425	40	98.85	1.15	
0.15	100	91.11	8.89	
0.106	140	85.35	14.65	
0.075	200	58.82	41.18	
0.063	230	45.24	54.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	45.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	54.74
% Silt and Clay	< 0.0625 mm	45.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.19
% Medium Sand	0.25 - 0.50 mm	0.96
% Fine Sand	0.0625 - 0.25 mm	53.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	45.24	0.063	#N/A	#N/A	#N/A
D30	30	45.24	0.063	#N/A	#N/A	#N/A
D50	50	58.82	0.075	45.24	0.063	0.067
D60	60	85.35	0.106	58.82	0.075	0.076

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB67A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB67B-1
Water Depth (m)	--

Grain Size Data

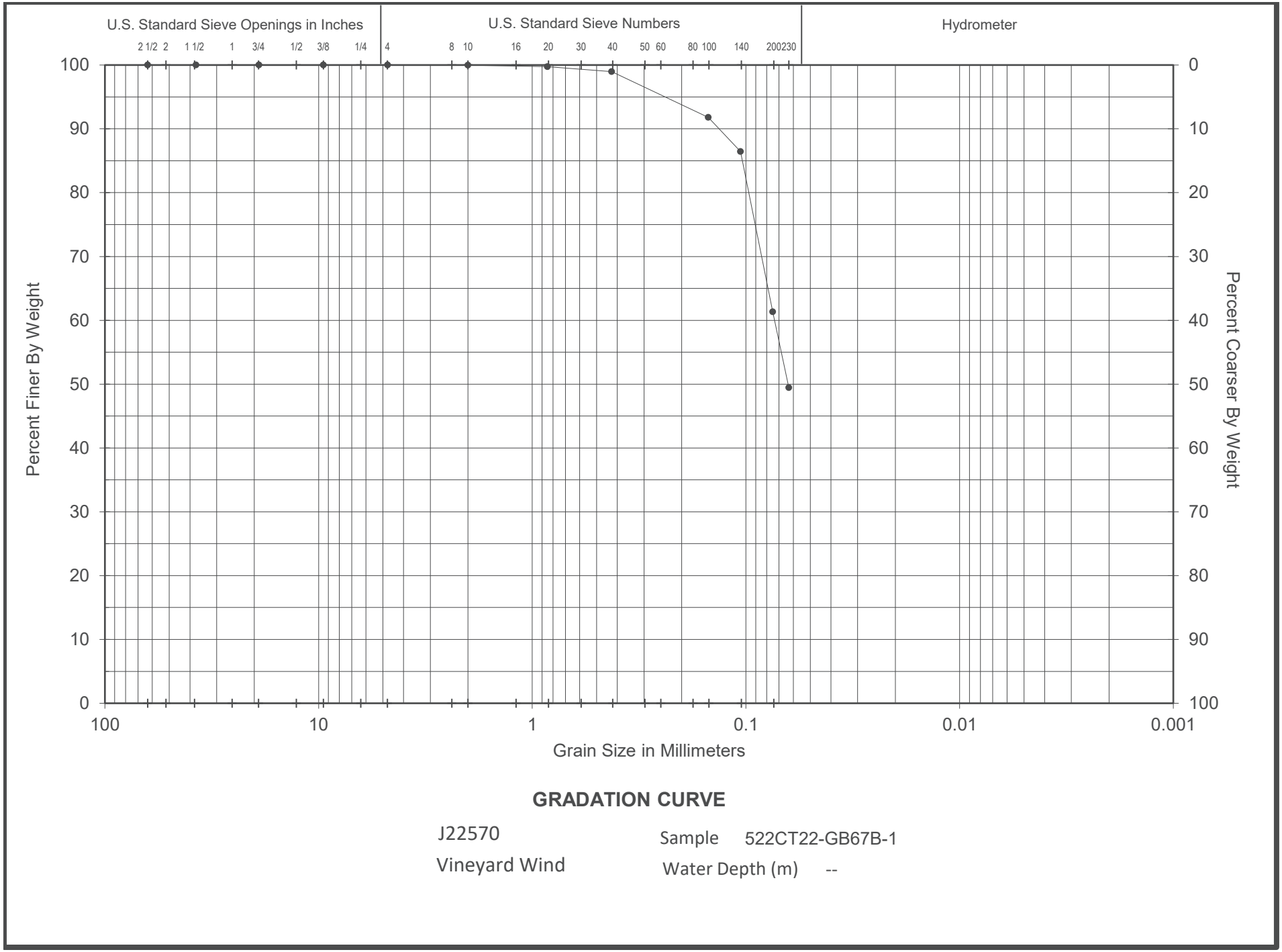
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	0.00
0.85	20	99.74	0.26	
0.425	40	98.96	1.04	
0.15	100	91.80	8.20	
0.106	140	86.46	13.54	
0.075	200	61.32	38.68	
0.063	230	49.45	50.55	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	49.45
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.03
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	50.52
% Silt and Clay	< 0.0625 mm	49.45
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.26
% Medium Sand	0.25 - 0.50 mm	0.78
% Fine Sand	0.0625 - 0.25 mm	49.51

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	49.45	0.063	#N/A	#N/A	#N/A
D30	30	49.45	0.063	#N/A	#N/A	#N/A
D50	50	61.32	0.075	49.45	0.063	0.064
D60	60	61.32	0.075	49.45	0.063	0.074

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB67B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB67C-1
Water Depth (m)	--

Grain Size Data

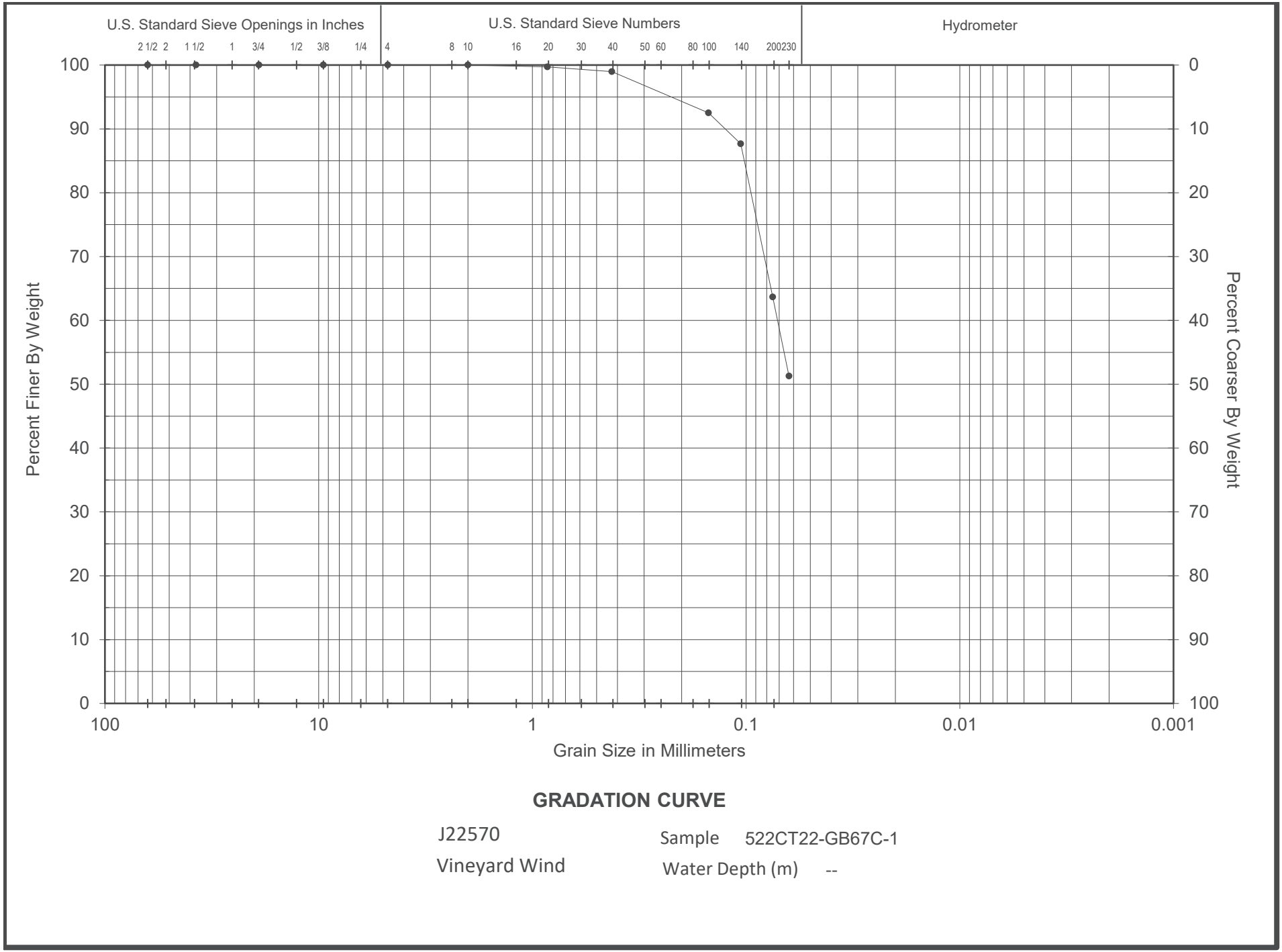
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.72	0.28	
0.425	40	98.98	1.02	
0.15	100	92.52	7.48	
0.106	140	87.67	12.33	
0.075	200	63.68	36.32	
0.063	230	51.29	48.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	51.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	48.71
% Silt and Clay	< 0.0625 mm	51.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.28
% Medium Sand	0.25 - 0.50 mm	0.74
% Fine Sand	0.0625 - 0.25 mm	47.69

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	51.29	0.063	#N/A	#N/A	#N/A
D30	30	51.29	0.063	#N/A	#N/A	#N/A
D50	50	51.29	0.063	#N/A	#N/A	#N/A
D60	60	63.68	0.075	51.29	0.063	0.071

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB67C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB68A-1
Water Depth (m)	--

Grain Size Data

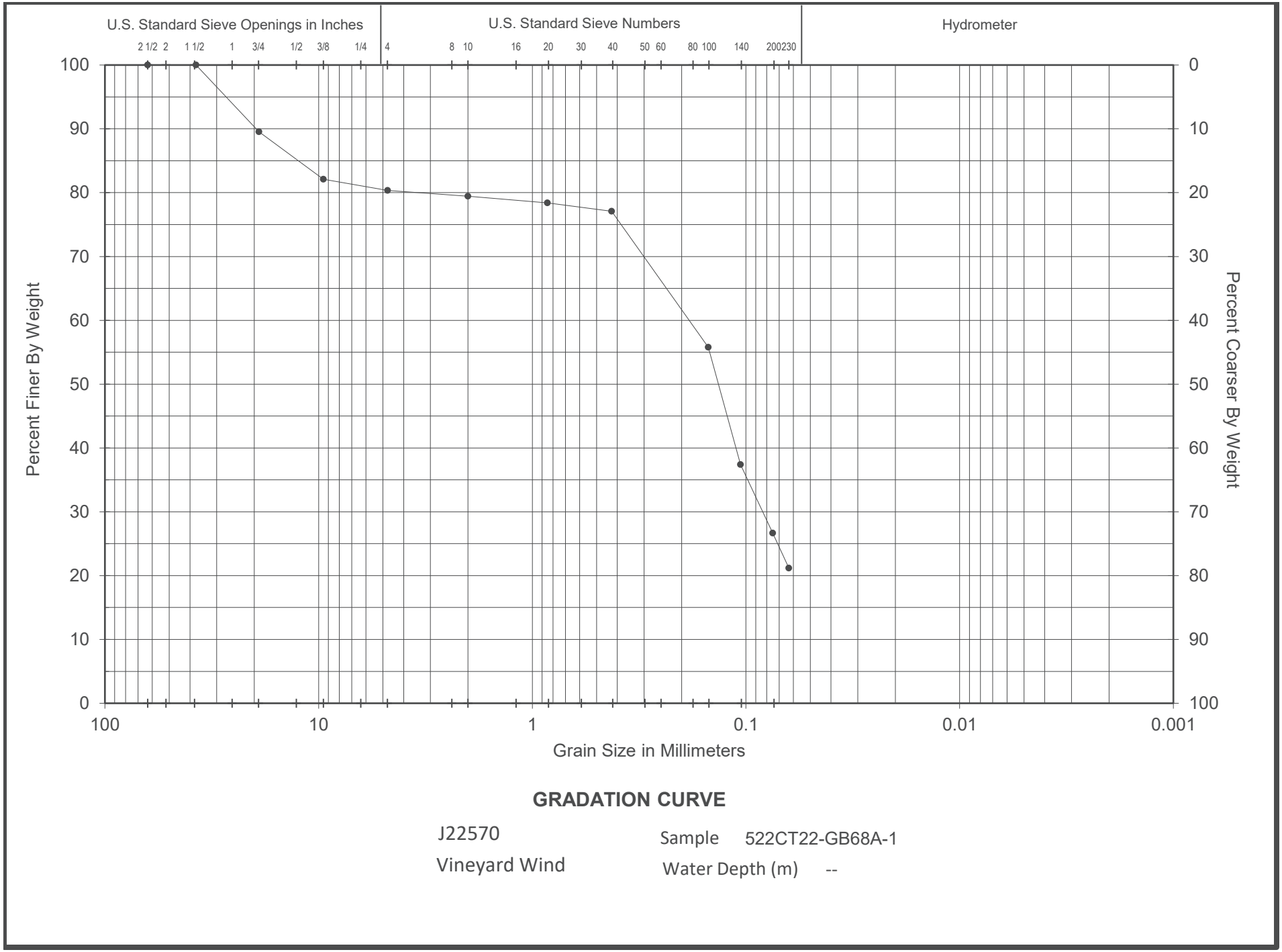
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	89.55	10.45	
9.5	3/8"	82.10	17.90	
4.75	4	80.34	19.66	
2	10	79.44	20.56	76.47
0.85	20	78.41	21.59	
0.425	40	77.09	22.91	
0.15	100	55.77	44.23	
0.106	140	37.39	62.61	
0.075	200	26.67	73.33	
0.063	230	21.19	78.81	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	79.44
% Passing #230	21.19
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.84
% Gravel-Sized Shell	> 2.00 mm	15.72
% Sand	0.0625 - 2.00 mm	58.25
% Silt and Clay	< 0.0625 mm	21.19
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.92
% Medium Sand	0.25 - 0.50 mm	1.32
% Fine Sand	0.0625 - 0.25 mm	55.90

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.19	0.063	#N/A	#N/A	#N/A
D30	30	37.39	0.106	26.67	0.075	0.084
D50	50	55.77	0.150	37.39	0.106	0.135
D60	60	77.09	0.425	55.77	0.150	0.184

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB68A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB68B-1
Water Depth (m)	--

Grain Size Data

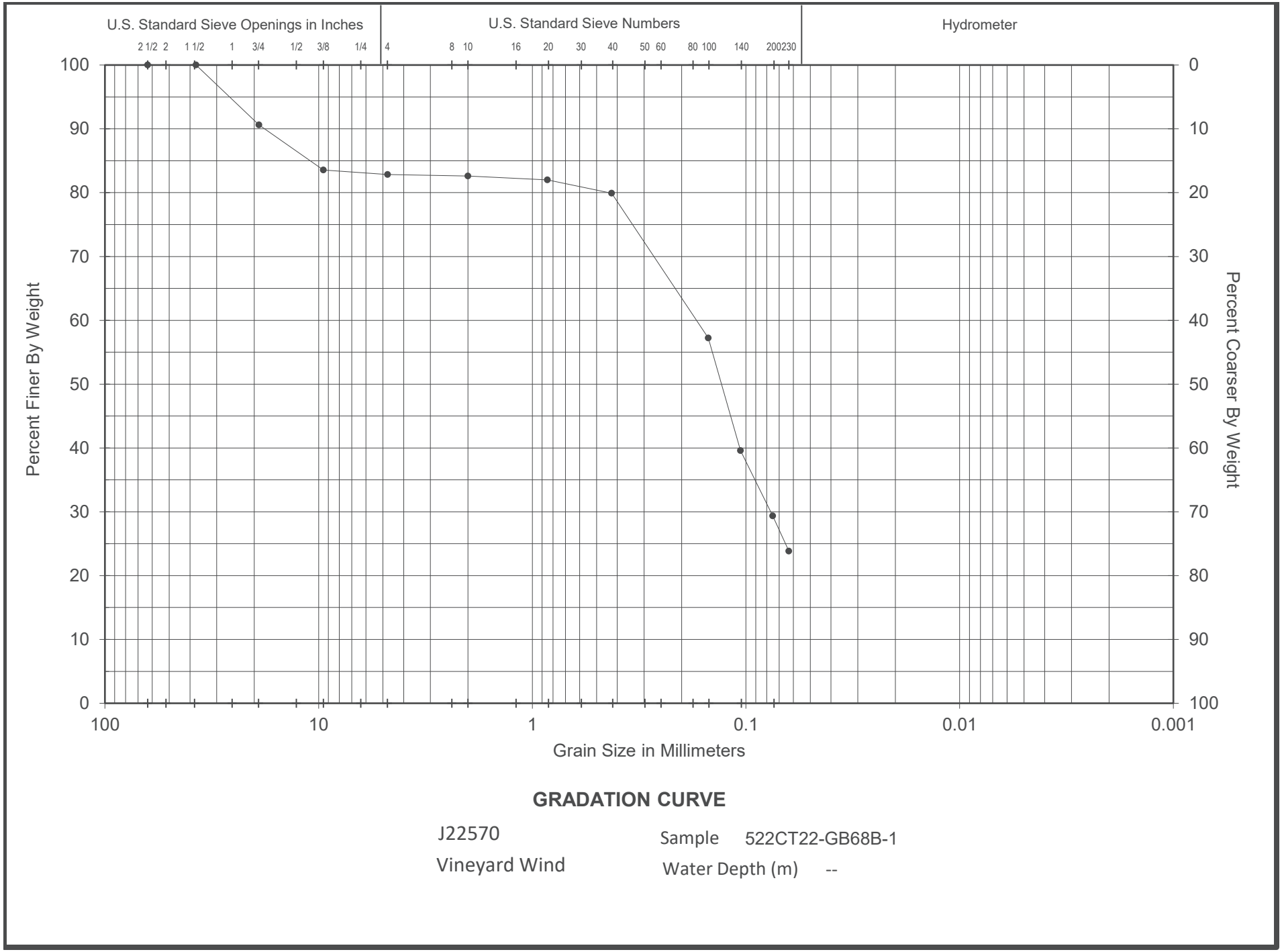
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	90.61	9.39	
9.5	3/8"	83.54	16.46	
4.75	4	82.85	17.15	
2	10	82.60	17.40	74.31
0.85	20	82.01	17.99	
0.425	40	79.93	20.07	
0.15	100	57.23	42.77	
0.106	140	39.60	60.40	
0.075	200	29.35	70.65	
0.063	230	23.85	76.15	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	82.60
% Passing #230	23.85
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.47
% Gravel-Sized Shell	> 2.00 mm	12.93
% Sand	0.0625 - 2.00 mm	58.75
% Silt and Clay	< 0.0625 mm	23.85
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.83
% Medium Sand	0.25 - 0.50 mm	2.09
% Fine Sand	0.0625 - 0.25 mm	56.08

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	23.85	0.063	#N/A	#N/A	#N/A
D30	30	39.60	0.106	29.35	0.075	0.077
D50	50	57.23	0.150	39.60	0.106	0.130
D60	60	79.93	0.425	57.23	0.150	0.170

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB68B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB68C-1
Water Depth (m)	--

Grain Size Data

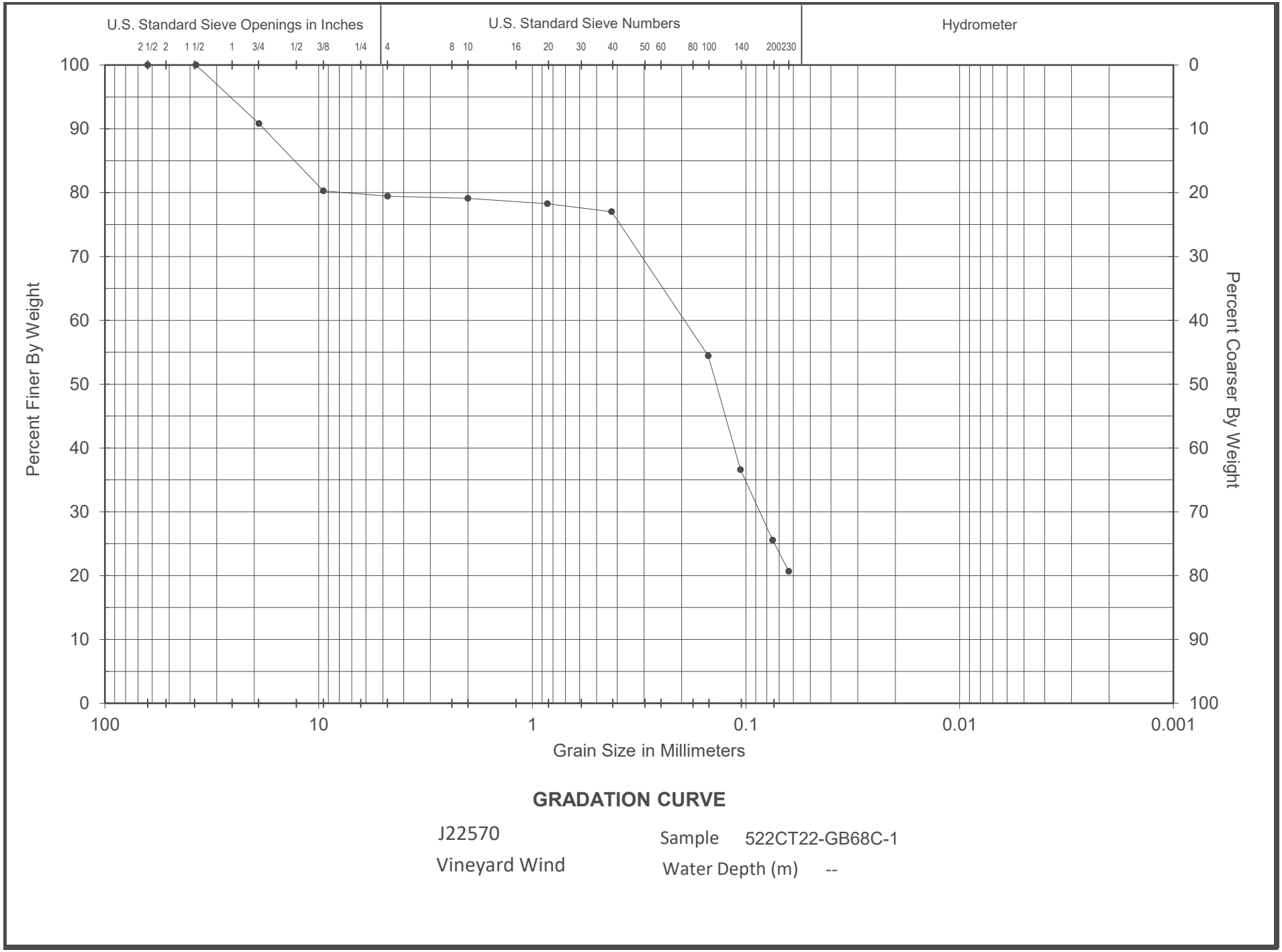
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	90.81	9.19	
9.5	3/8"	80.29	19.71	
4.75	4	79.46	20.54	
2	10	79.09	20.91	100.00
0.85	20	78.25	21.75	
0.425	40	77.02	22.98	
0.15	100	54.44	45.56	
0.106	140	36.58	63.42	
0.075	200	25.57	74.43	
0.063	230	20.67	79.33	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	79.09
% Passing #230	20.67
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	20.91
% Sand	0.0625 - 2.00 mm	58.42
% Silt and Clay	< 0.0625 mm	20.67
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.20
% Medium Sand	0.25 - 0.50 mm	1.23
% Fine Sand	0.0625 - 0.25 mm	56.35

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.67	0.063	#N/A	#N/A	#N/A
D30	30	36.58	0.106	25.57	0.075	0.086
D50	50	54.44	0.150	36.58	0.106	0.138
D60	60	77.02	0.425	54.44	0.150	0.194

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB68C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB69A-1
Water Depth (m)	--

Grain Size Data

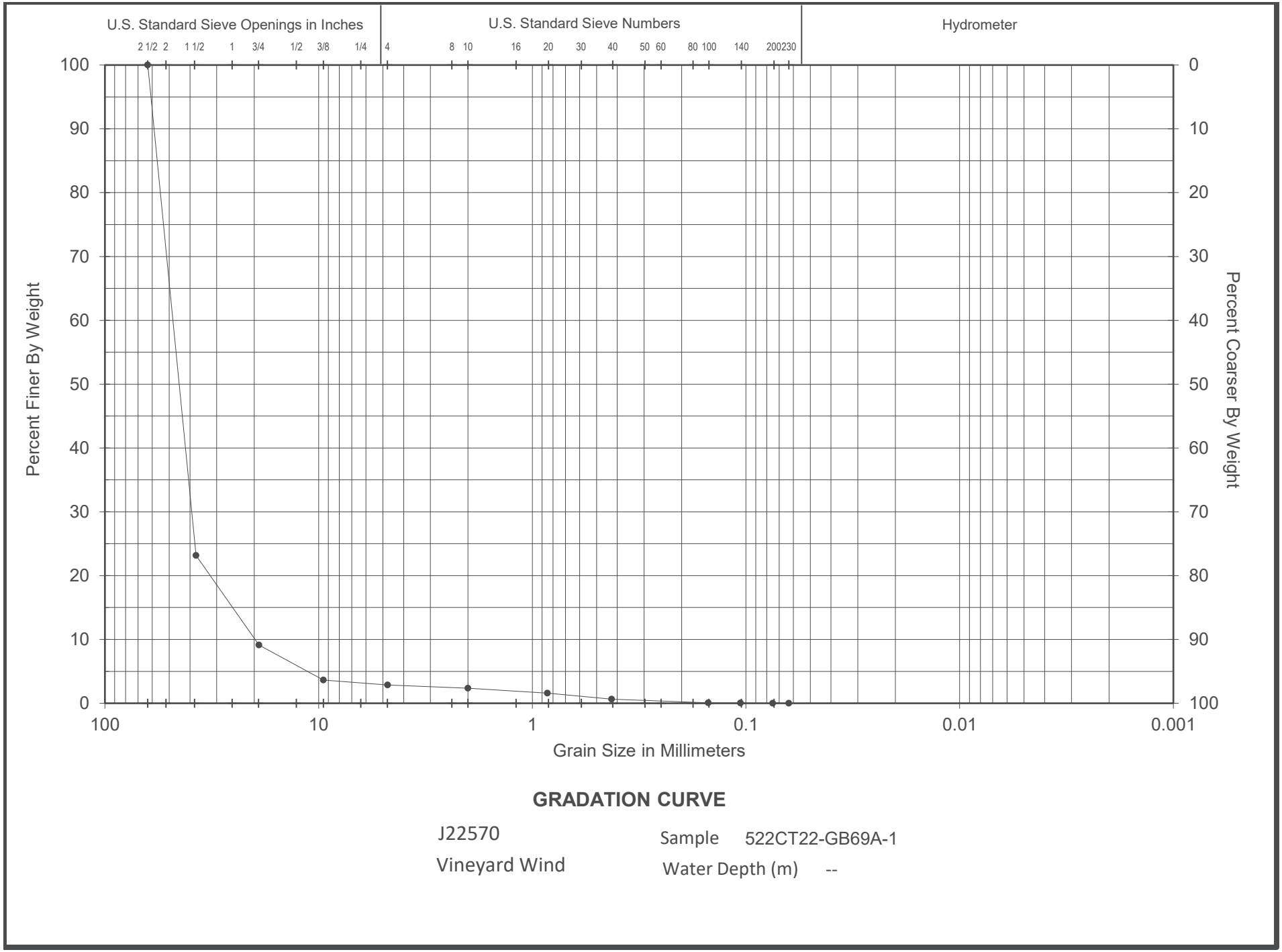
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	23.17	76.83	
19	3/4"	9.13	90.87	
9.5	3/8"	3.64	96.36	
4.75	4	2.87	97.13	
2	10	2.35	97.65	0.20
0.85	20	1.59	98.41	
0.425	40	0.65	99.35	
0.15	100	0.07	99.93	
0.106	140	0.03	99.97	
0.075	200	0.01	99.99	
0.063	230	0.005	100.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	2.35
% Passing #230	0.00
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	97.46
% Gravel-Sized Shell	> 2.00 mm	0.20
% Sand	0.0625 - 2.00 mm	2.34
% Silt and Clay	< 0.0625 mm	0.005
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.28
% Medium Sand	0.25 - 0.50 mm	0.94
% Fine Sand	0.0625 - 0.25 mm	0.64

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	23.17	37.500	9.13	19.000	19.817
D30	30	100.00	63.000	23.17	37.500	39.270
D50	50	100.00	63.000	23.17	37.500	44.948
D60	60	100.00	63.000	23.17	37.500	48.088

Uniformity Coefficient (Cu)	2.427
Coefficient of Curvature (Cc)	1.618



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB69A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB69C-1
Water Depth (m)	--

Grain Size Data

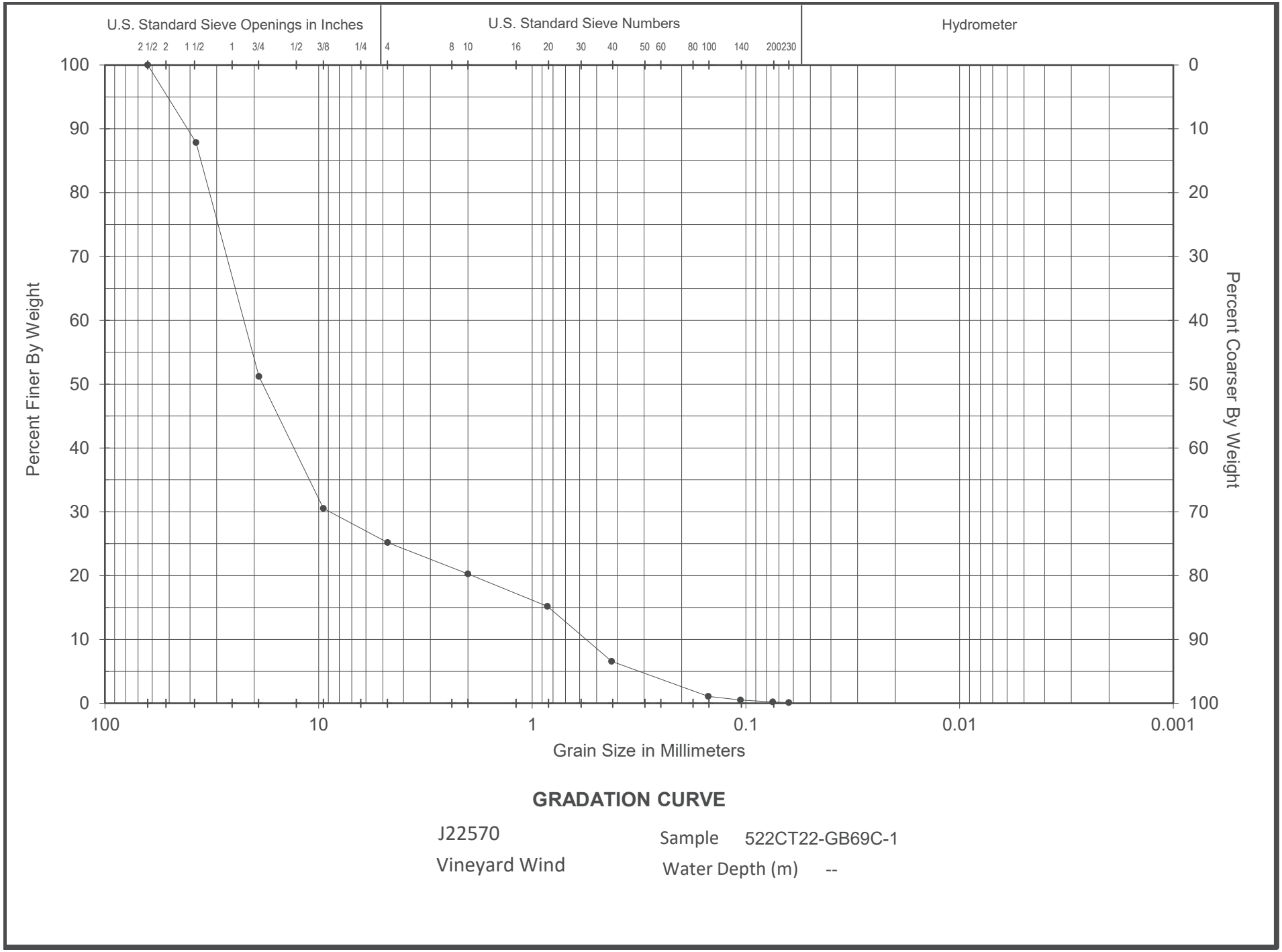
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	87.86	12.14	
19	3/4"	51.19	48.81	
9.5	3/8"	30.53	69.47	
4.75	4	25.20	74.80	
2	10	20.27	79.73	0.00
0.85	20	15.19	84.81	
0.425	40	6.58	93.42	
0.15	100	1.08	98.92	
0.106	140	0.51	99.49	
0.075	200	0.20	99.80	
0.063	230	0.09	99.91	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	20.27
% Passing #230	0.09
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	79.73
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	20.18
% Silt and Clay	< 0.0625 mm	0.09
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.01
% Medium Sand	0.25 - 0.50 mm	8.61
% Fine Sand	0.0625 - 0.25 mm	6.49

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.19	0.850	6.58	0.425	0.560
D30	30	30.53	9.500	25.20	4.750	8.865
D50	50	51.19	19.000	30.53	9.500	18.256
D60	60	87.86	37.500	51.19	19.000	22.371

Uniformity Coefficient (Cu)	39.959
Coefficient of Curvature (Cc)	6.275



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB69C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB71A-1
Water Depth (m)	--

Grain Size Data

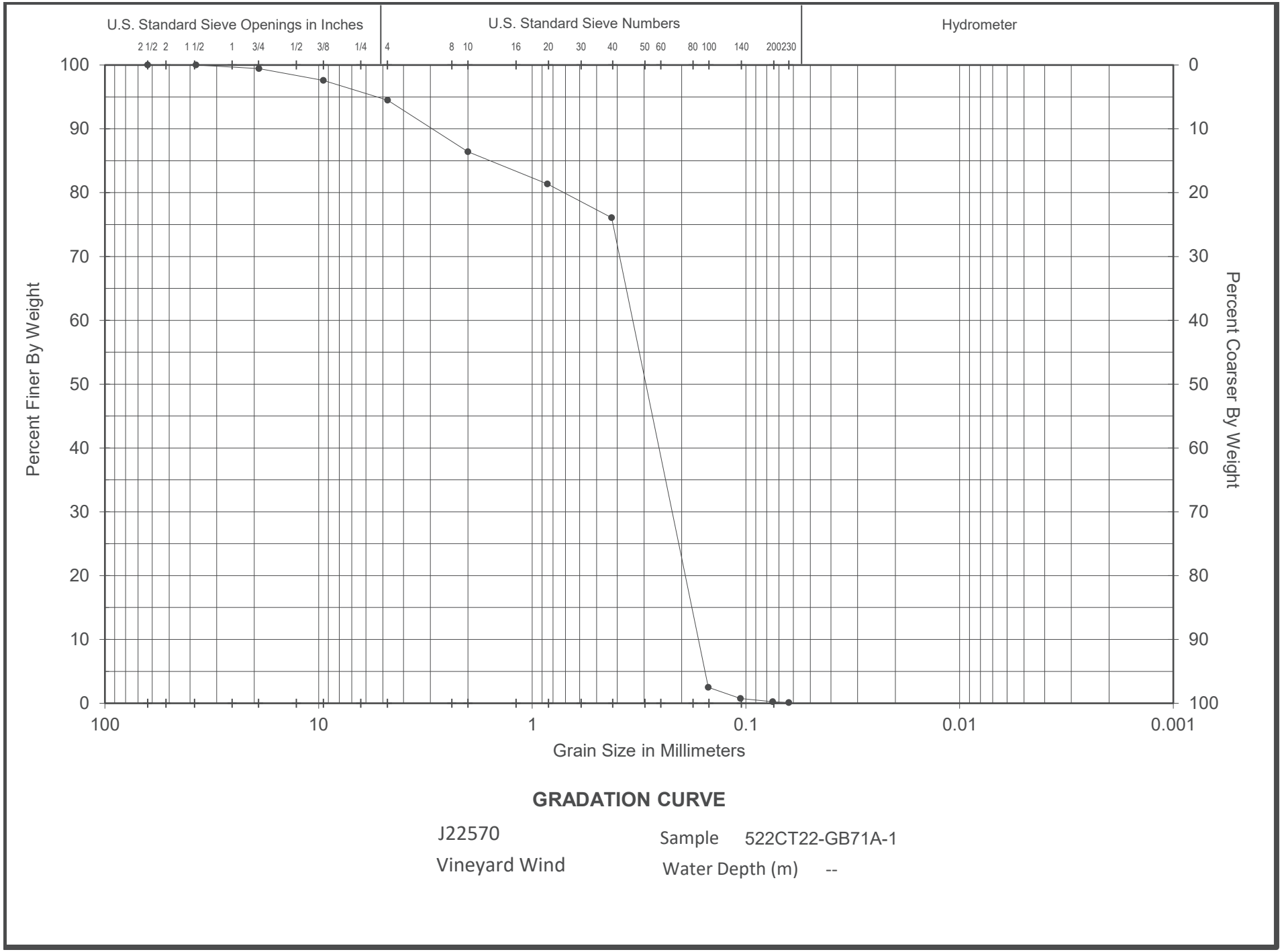
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	99.44	0.56	
9.5	3/8"	97.59	2.41	
4.75	4	94.50	5.50	
2	10	86.42	13.58	41.14
0.85	20	81.35	18.65	
0.425	40	76.06	23.94	
0.15	100	2.50	97.50	
0.106	140	0.75	99.25	
0.075	200	0.25	99.75	
0.063	230	0.12	99.88	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	86.42
% Passing #230	0.12
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	7.99
% Gravel-Sized Shell	> 2.00 mm	5.58
% Sand	0.0625 - 2.00 mm	86.30
% Silt and Clay	< 0.0625 mm	0.12
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	13.15
% Medium Sand	0.25 - 0.50 mm	5.29
% Fine Sand	0.0625 - 0.25 mm	75.94

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	76.06	0.425	2.50	0.150	0.167
D30	30	76.06	0.425	2.50	0.150	0.221
D50	50	76.06	0.425	2.50	0.150	0.294
D60	60	76.06	0.425	2.50	0.150	0.339

Uniformity Coefficient (Cu)	2.030
Coefficient of Curvature (Cc)	0.868



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB71A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB71B-1
Water Depth (m)	--

Grain Size Data

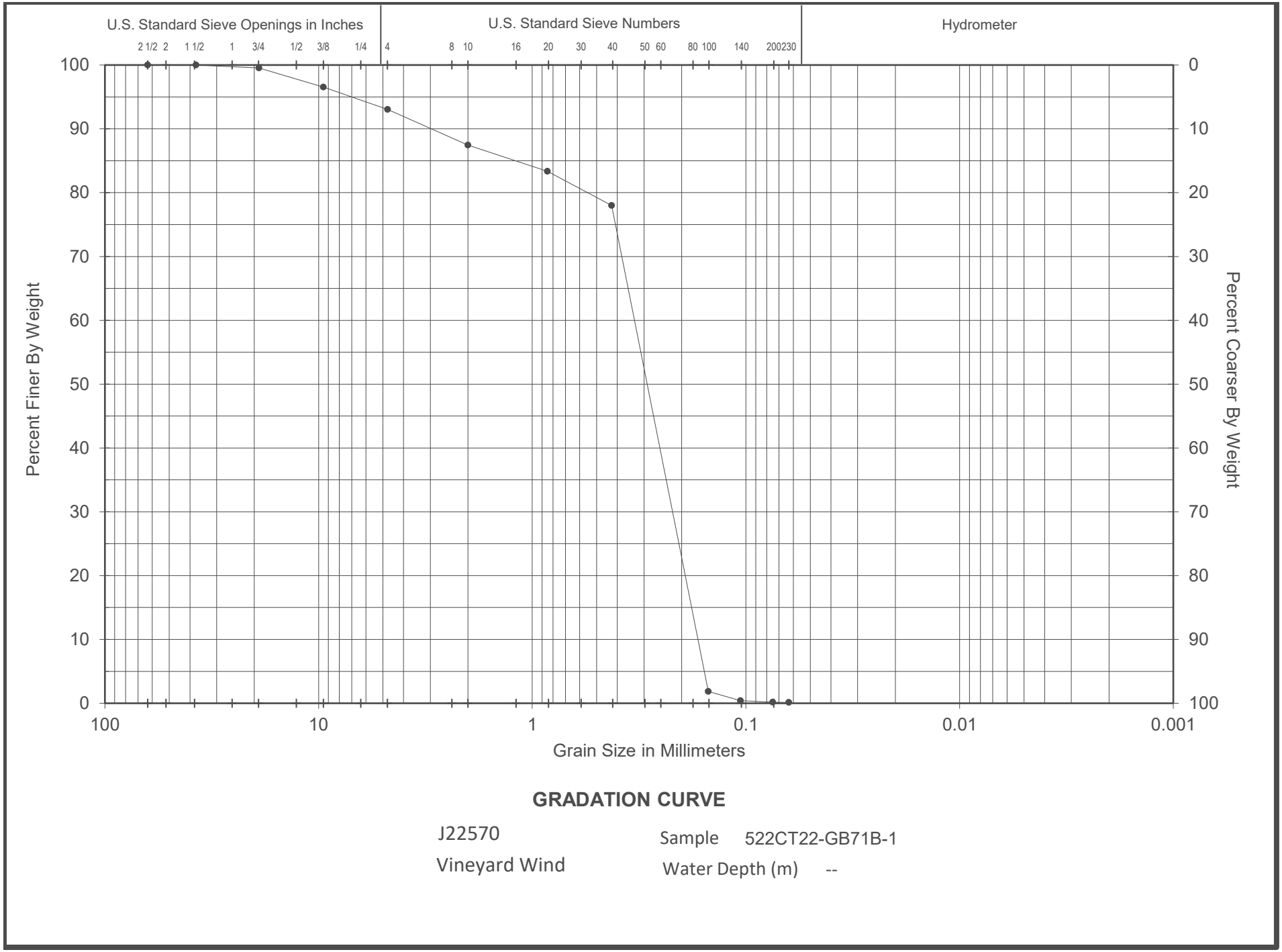
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	99.54	0.46	
9.5	3/8"	96.53	3.47	
4.75	4	93.05	6.95	
2	10	87.45	12.55	91.07
0.85	20	83.35	16.65	
0.425	40	78.00	22.00	
0.15	100	1.85	98.15	
0.106	140	0.40	99.60	
0.075	200	0.17	99.83	
0.063	230	0.13	99.87	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	87.45
% Passing #230	0.13
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.12
% Gravel-Sized Shell	> 2.00 mm	11.43
% Sand	0.0625 - 2.00 mm	87.33
% Silt and Clay	< 0.0625 mm	0.13
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.70
% Medium Sand	0.25 - 0.50 mm	5.35
% Fine Sand	0.0625 - 0.25 mm	77.87

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	78.00	0.425	1.85	0.150	0.168
D30	30	78.00	0.425	1.85	0.150	0.220
D50	50	78.00	0.425	1.85	0.150	0.290
D60	60	78.00	0.425	1.85	0.150	0.332

Uniformity Coefficient (Cu)	1.981
Coefficient of Curvature (Cc)	0.872



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB71B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB71C-1
Water Depth (m)	--

Grain Size Data

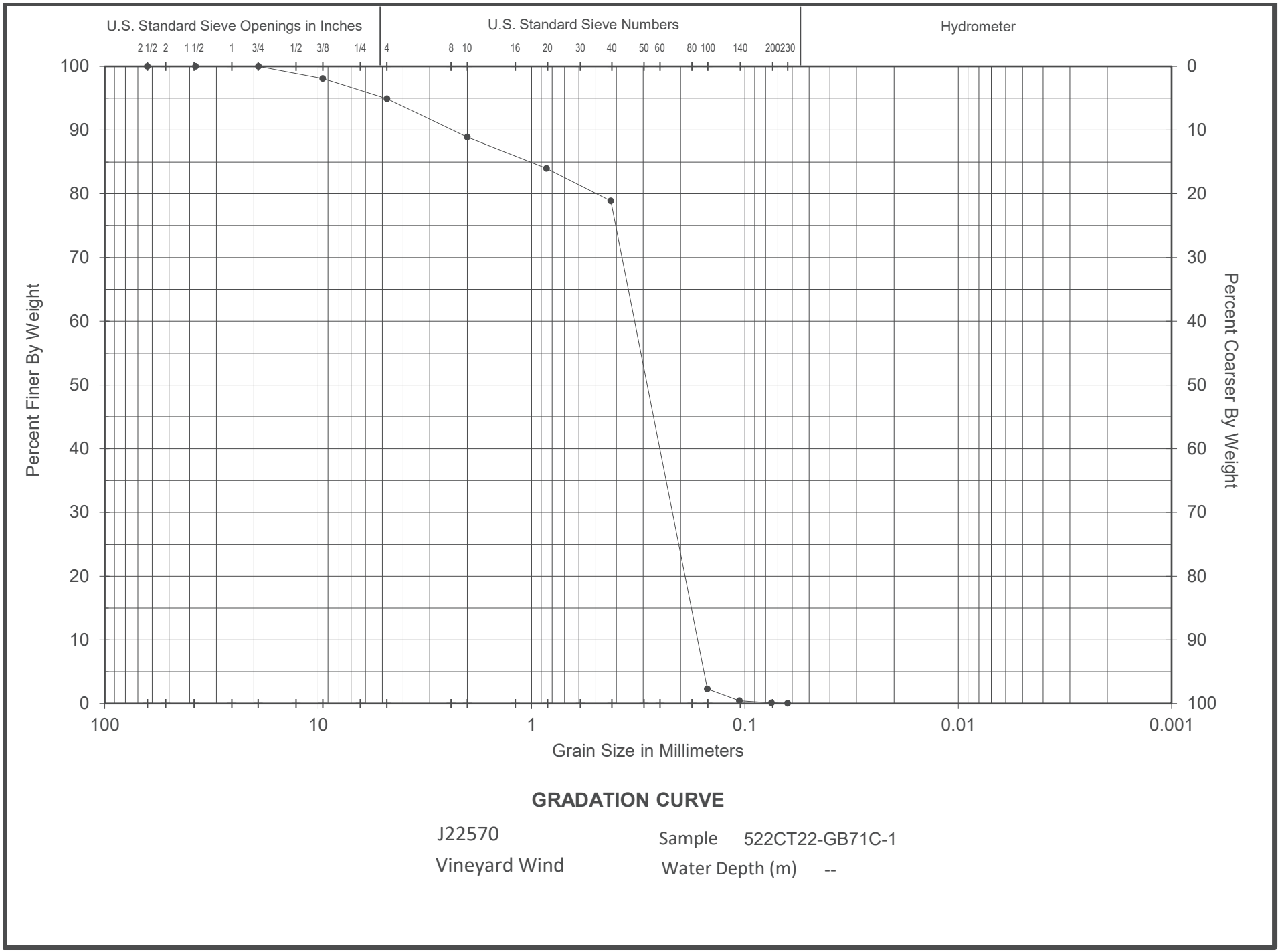
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.09	1.91	
4.75	4	94.91	5.09	
2	10	88.87	11.13	98.87
0.85	20	83.96	16.04	
0.425	40	78.88	21.12	
0.15	100	2.27	97.73	
0.106	140	0.43	99.57	
0.075	200	0.10	99.90	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	88.87
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.13
% Gravel-Sized Shell	> 2.00 mm	11.00
% Sand	0.0625 - 2.00 mm	88.85
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.95
% Medium Sand	0.25 - 0.50 mm	5.09
% Fine Sand	0.0625 - 0.25 mm	78.85

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	78.88	0.425	2.27	0.150	0.167
D30	30	78.88	0.425	2.27	0.150	0.219
D50	50	78.88	0.425	2.27	0.150	0.287
D60	60	78.88	0.425	2.27	0.150	0.329

Uniformity Coefficient (Cu)	1.973
Coefficient of Curvature (Cc)	0.873



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB71C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB72-3A-1
Water Depth (m)	--

Grain Size Data

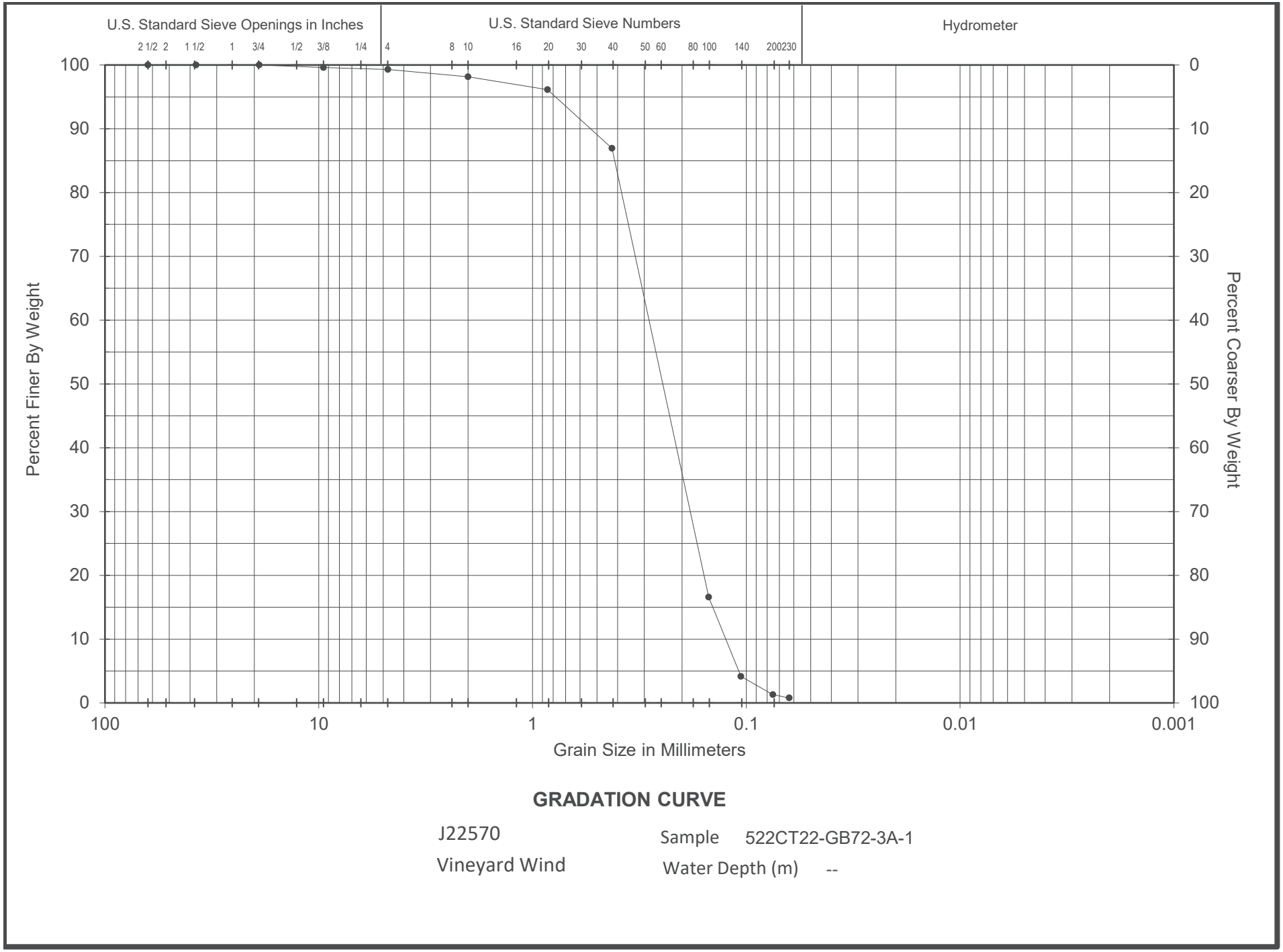
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.60	0.40	
4.75	4	99.31	0.69	
2	10	98.16	1.84	89.39
0.85	20	96.14	3.86	
0.425	40	86.95	13.05	
0.15	100	16.58	83.42	
0.106	140	4.16	95.84	
0.075	200	1.31	98.69	
0.063	230	0.78	99.22	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.16
% Passing #230	0.78
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.20
% Gravel-Sized Shell	> 2.00 mm	1.65
% Sand	0.0625 - 2.00 mm	97.38
% Silt and Clay	< 0.0625 mm	0.78
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.17
% Medium Sand	0.25 - 0.50 mm	9.19
% Fine Sand	0.0625 - 0.25 mm	86.17

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.58	0.150	4.16	0.106	0.125
D30	30	86.95	0.425	16.58	0.150	0.183
D50	50	86.95	0.425	16.58	0.150	0.246
D60	60	86.95	0.425	16.58	0.150	0.285

Uniformity Coefficient (Cu)	2.285
Coefficient of Curvature (Cc)	0.940



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB72-3A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB72-3B-1
Water Depth (m)	--

Grain Size Data

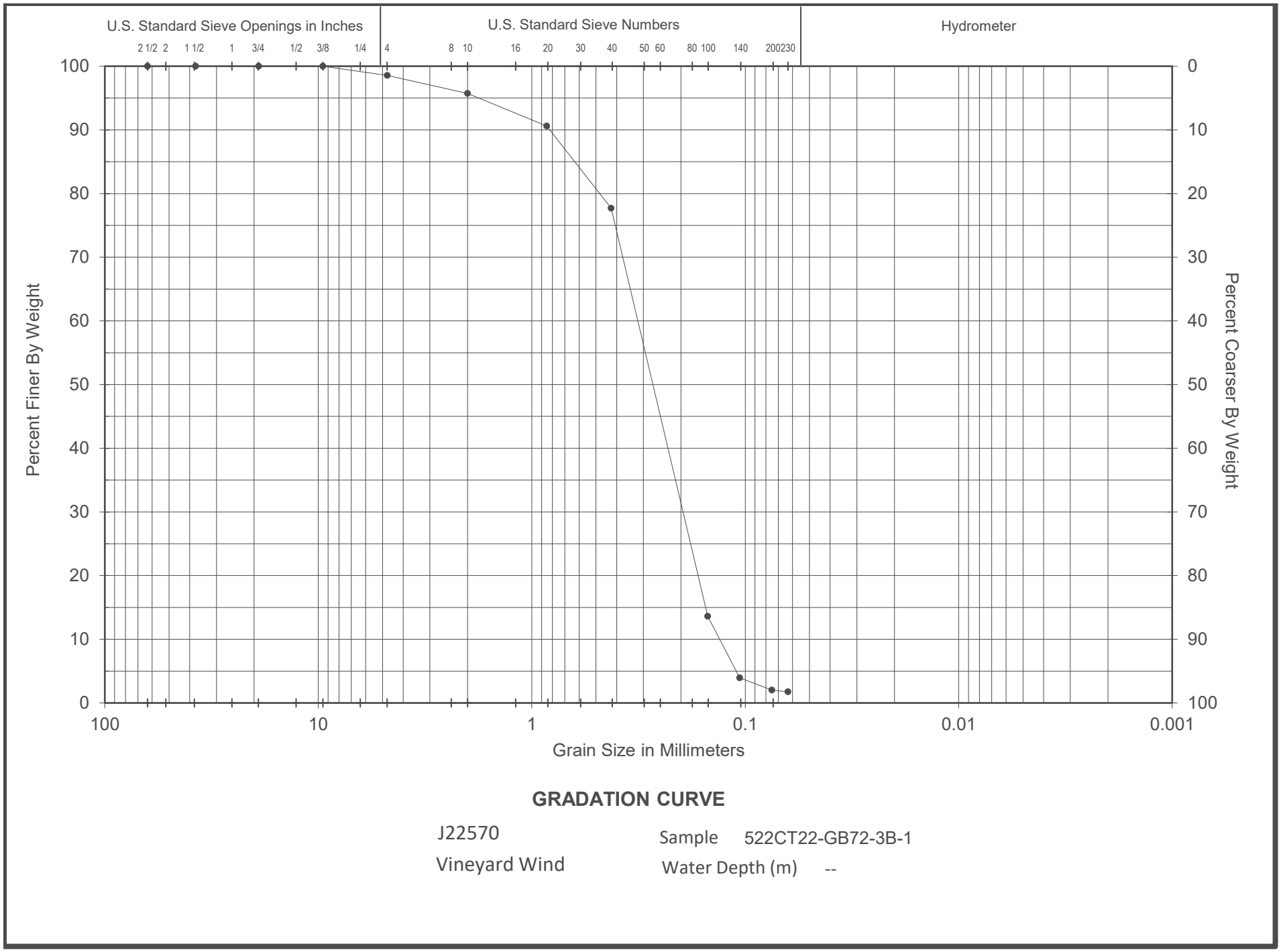
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.54	1.46	
2	10	95.72	4.28	84.57
0.85	20	90.59	9.41	
0.425	40	77.68	22.32	
0.15	100	13.62	86.38	
0.106	140	3.95	96.05	
0.075	200	2.02	97.98	
0.063	230	1.75	98.25	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.72
% Passing #230	1.75
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.66
% Gravel-Sized Shell	> 2.00 mm	3.62
% Sand	0.0625 - 2.00 mm	93.97
% Silt and Clay	< 0.0625 mm	1.75
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.95
% Medium Sand	0.25 - 0.50 mm	12.91
% Fine Sand	0.0625 - 0.25 mm	75.93

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.62	0.150	3.95	0.106	0.132
D30	30	77.68	0.425	13.62	0.150	0.196
D50	50	77.68	0.425	13.62	0.150	0.271
D60	60	77.68	0.425	13.62	0.150	0.319

Uniformity Coefficient (Cu)	2.421
Coefficient of Curvature (Cc)	0.913



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB72-3B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB72-3C-1
Water Depth (m)	--

Grain Size Data

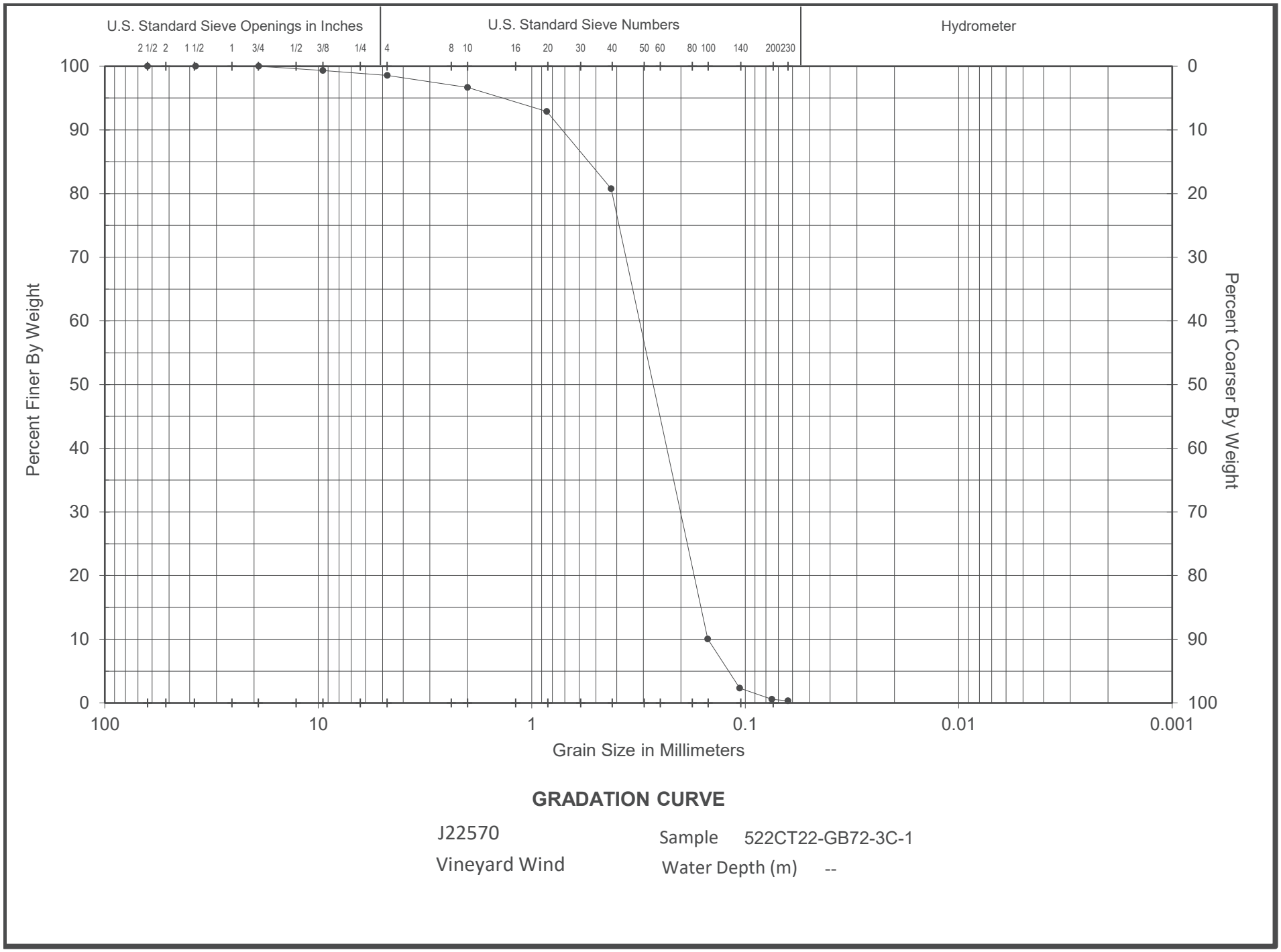
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.32	0.68	
4.75	4	98.54	1.46	
2	10	96.67	3.33	86.04
0.85	20	92.91	7.09	
0.425	40	80.76	19.24	
0.15	100	10.05	89.95	
0.106	140	2.34	97.66	
0.075	200	0.57	99.43	
0.063	230	0.33	99.67	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.67
% Passing #230	0.33
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.47
% Gravel-Sized Shell	> 2.00 mm	2.87
% Sand	0.0625 - 2.00 mm	96.34
% Silt and Clay	< 0.0625 mm	0.33
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.63
% Medium Sand	0.25 - 0.50 mm	12.15
% Fine Sand	0.0625 - 0.25 mm	80.44

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.05	0.150	2.34	0.106	0.150
D30	30	80.76	0.425	10.05	0.150	0.201
D50	50	80.76	0.425	10.05	0.150	0.270
D60	60	80.76	0.425	10.05	0.150	0.313

Uniformity Coefficient (Cu)	2.092
Coefficient of Curvature (Cc)	0.864



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB72-3C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB72-1
Water Depth (m)	--

Grain Size Data

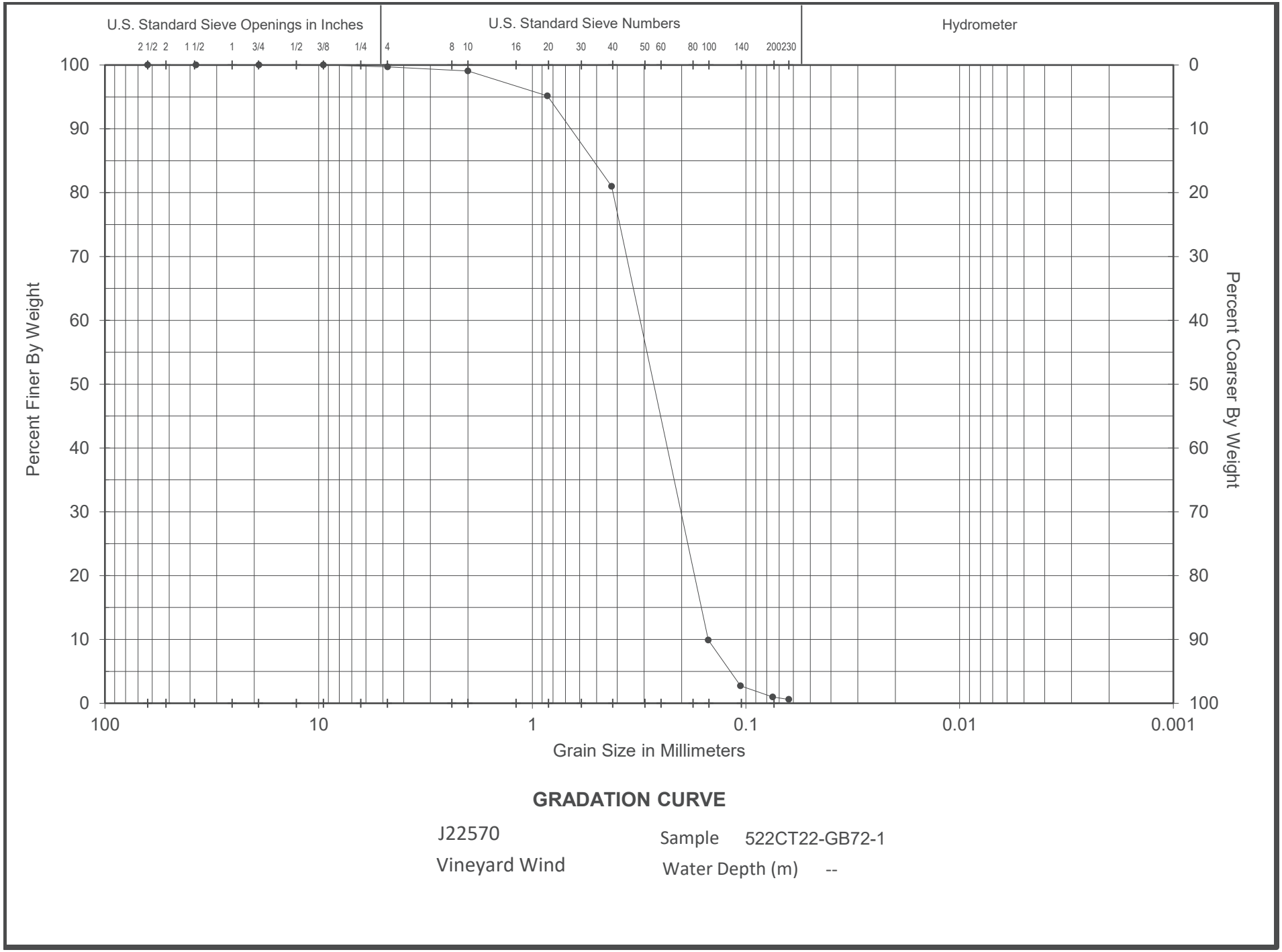
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.70	0.30	
2	10	99.07	0.93	60.45
0.85	20	95.18	4.82	
0.425	40	81.00	19.00	
0.15	100	9.91	90.09	
0.106	140	2.74	97.26	
0.075	200	0.99	99.01	
0.063	230	0.60	99.40	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.07
% Passing #230	0.60
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.37
% Gravel-Sized Shell	> 2.00 mm	0.56
% Sand	0.0625 - 2.00 mm	98.47
% Silt and Clay	< 0.0625 mm	0.60
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.53
% Medium Sand	0.25 - 0.50 mm	14.17
% Fine Sand	0.0625 - 0.25 mm	80.40

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	81.00	0.425	9.91	0.150	0.150
D30	30	81.00	0.425	9.91	0.150	0.201
D50	50	81.00	0.425	9.91	0.150	0.270
D60	60	81.00	0.425	9.91	0.150	0.312

Uniformity Coefficient (Cu)	2.080
Coefficient of Curvature (Cc)	0.864



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB72-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB73A-1
Water Depth (m)	--

Grain Size Data

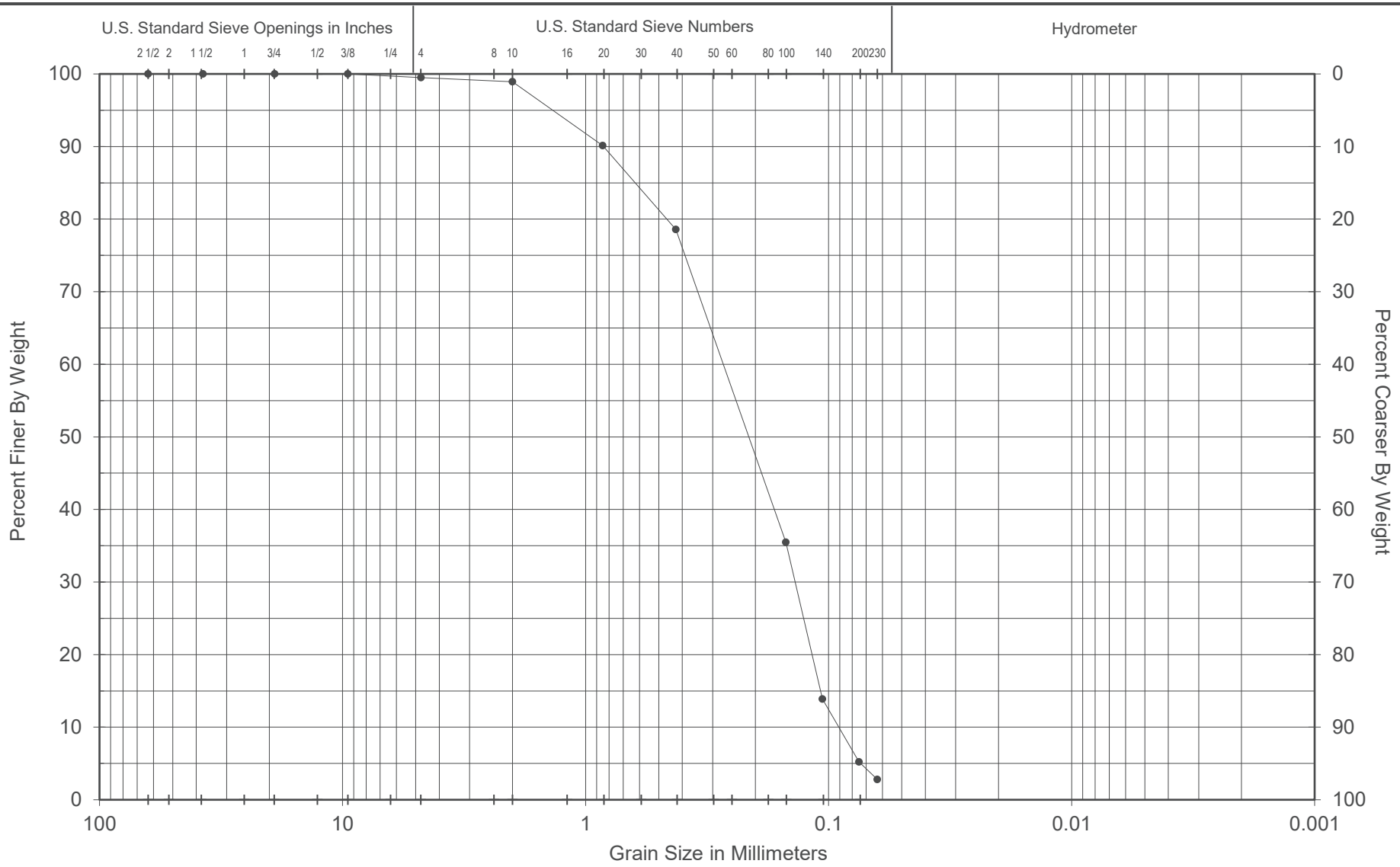
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.51	0.49	
2	10	98.91	1.09	117.47
0.85	20	90.13	9.87	
0.425	40	78.57	21.43	
0.15	100	35.46	64.54	
0.106	140	13.86	86.14	
0.075	200	5.22	94.78	
0.063	230	2.81	97.19	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.91
% Passing #230	2.81
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	-0.19
% Gravel-Sized Shell	> 2.00 mm	1.28
% Sand	0.0625 - 2.00 mm	96.10
% Silt and Clay	< 0.0625 mm	2.81
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.38
% Medium Sand	0.25 - 0.50 mm	11.56
% Fine Sand	0.0625 - 0.25 mm	75.76

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	13.86	0.106	5.22	0.075	0.091
D30	30	35.46	0.150	13.86	0.106	0.137
D50	50	78.57	0.425	35.46	0.150	0.213
D60	60	78.57	0.425	35.46	0.150	0.271

Uniformity Coefficient (Cu)	2.988
Coefficient of Curvature (Cc)	0.766



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB73A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB73B-1
Water Depth (m)	--

Grain Size Data

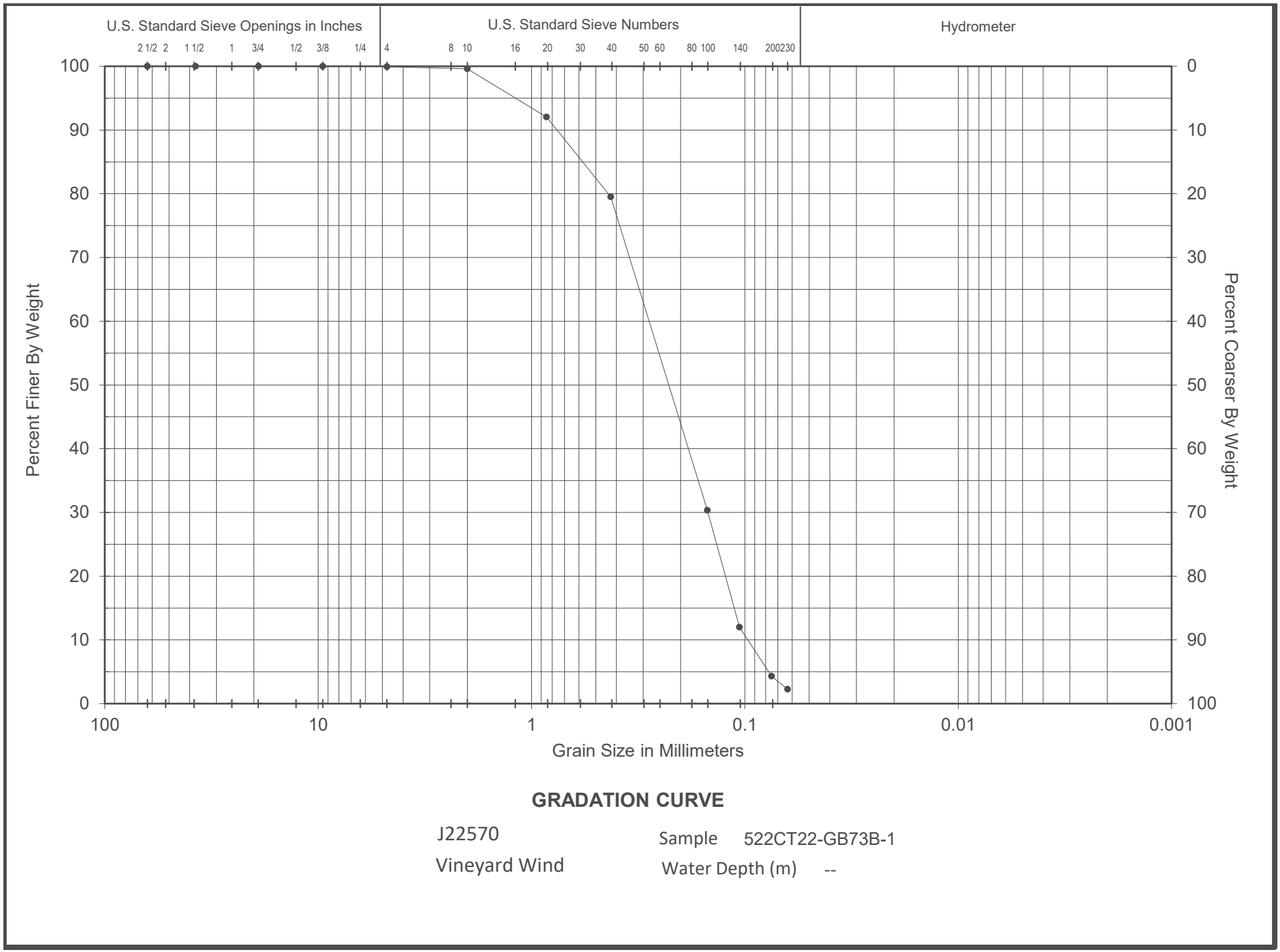
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.92	0.08	
2	10	99.59	0.41	100.00
0.85	20	92.03	7.97	
0.425	40	79.53	20.47	
0.15	100	30.34	69.66	
0.106	140	11.98	88.02	
0.075	200	4.31	95.69	
0.063	230	2.26	97.74	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.59
% Passing #230	2.26
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.41
% Sand	0.0625 - 2.00 mm	97.33
% Silt and Clay	< 0.0625 mm	2.26
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.89
% Medium Sand	0.25 - 0.50 mm	12.51
% Fine Sand	0.0625 - 0.25 mm	77.27

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.98	0.106	4.31	0.075	0.097
D30	30	30.34	0.150	11.98	0.106	0.149
D50	50	79.53	0.425	30.34	0.150	0.227
D60	60	79.53	0.425	30.34	0.150	0.281

Uniformity Coefficient (Cu)	2.899
Coefficient of Curvature (Cc)	0.815



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB73B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB73C-1
Water Depth (m)	--

Grain Size Data

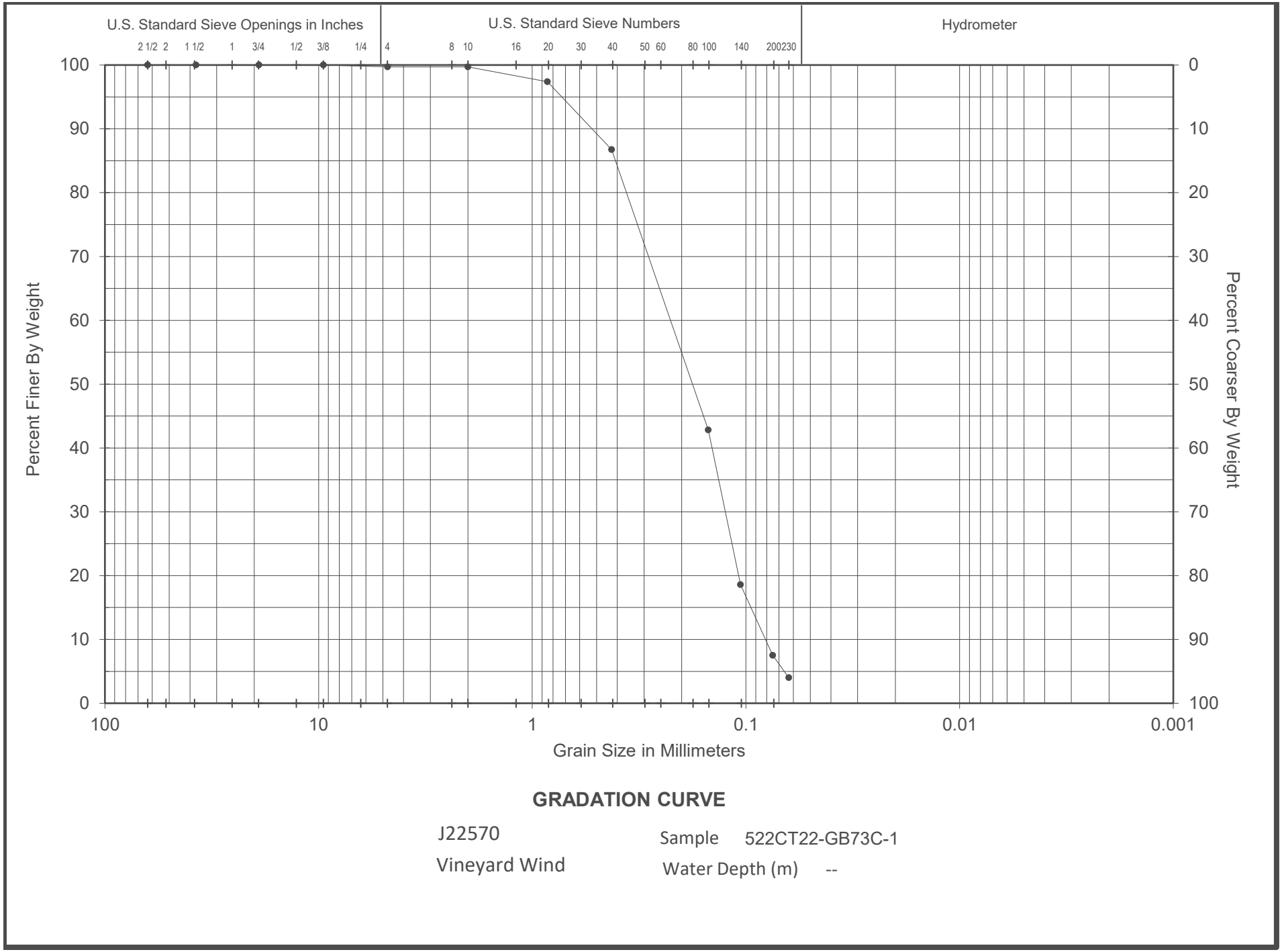
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.72	0.28	
2	10	99.72	0.28	6.25
0.85	20	97.38	2.62	
0.425	40	86.75	13.25	
0.15	100	42.83	57.17	
0.106	140	18.60	81.40	
0.075	200	7.51	92.49	
0.063	230	4.00	96.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.72
% Passing #230	4.00
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.26
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	95.72
% Silt and Clay	< 0.0625 mm	4.00
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.34
% Medium Sand	0.25 - 0.50 mm	10.63
% Fine Sand	0.0625 - 0.25 mm	82.76

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	18.60	0.106	7.51	0.075	0.081
D30	30	42.83	0.150	18.60	0.106	0.125
D50	50	86.75	0.425	42.83	0.150	0.178
D60	60	86.75	0.425	42.83	0.150	0.225

Uniformity Coefficient (Cu)	2.781
Coefficient of Curvature (Cc)	0.853



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB73C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB074A
Water Depth (m)	--

Grain Size Data

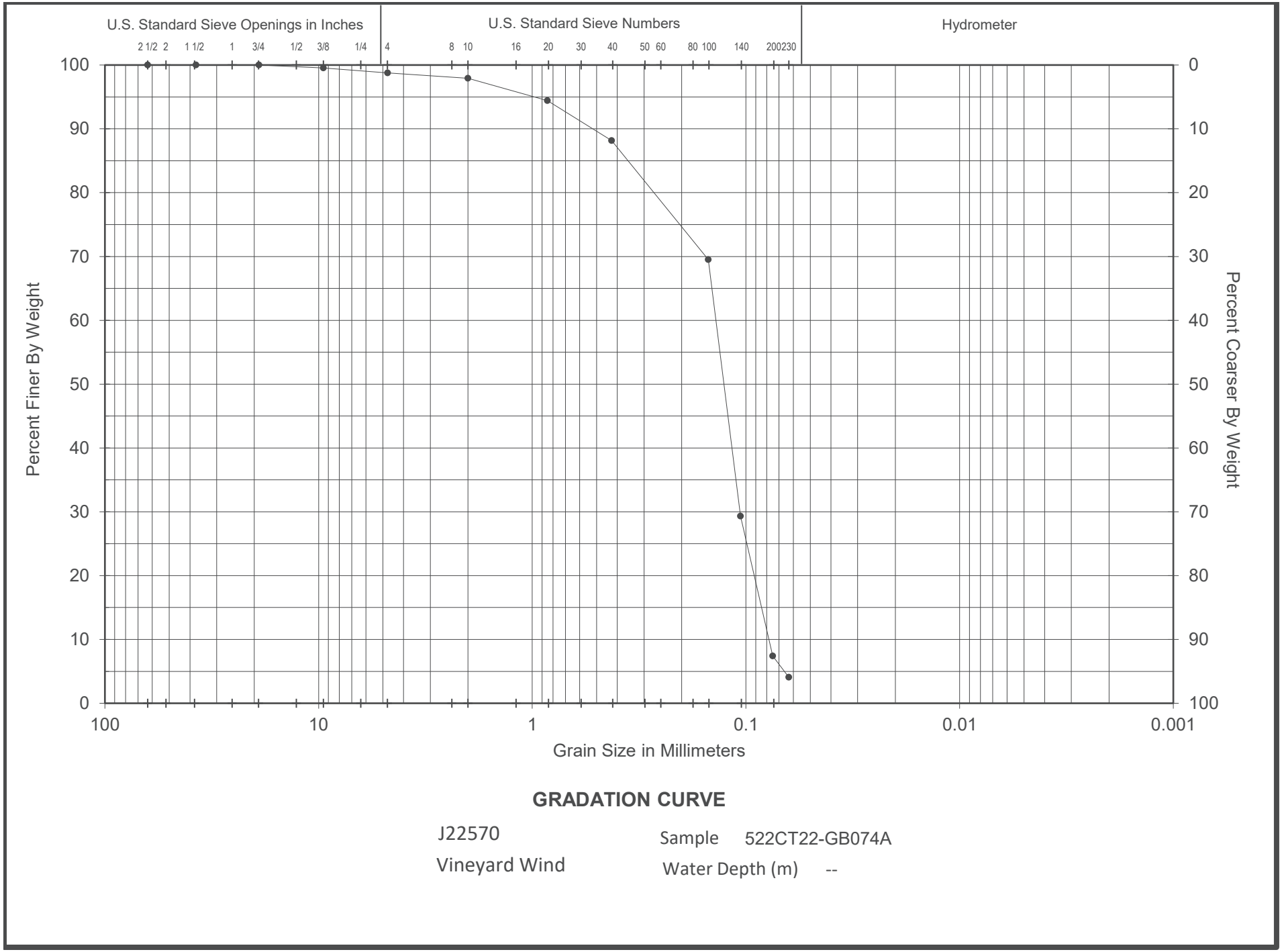
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.55	0.45	
4.75	4	98.77	1.23	
2	10	97.93	2.07	52.13
0.85	20	94.44	5.56	
0.425	40	88.16	11.84	
0.15	100	69.50	30.50	
0.106	140	29.34	70.66	
0.075	200	7.39	92.61	
0.063	230	4.07	95.93	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.93
% Passing #230	4.07
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.99
% Gravel-Sized Shell	> 2.00 mm	1.08
% Sand	0.0625 - 2.00 mm	93.86
% Silt and Clay	< 0.0625 mm	4.07
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.33
% Medium Sand	0.25 - 0.50 mm	6.28
% Fine Sand	0.0625 - 0.25 mm	84.09

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	29.34	0.106	7.39	0.075	0.078
D30	30	69.50	0.150	29.34	0.106	0.107
D50	50	69.50	0.150	29.34	0.106	0.127
D60	60	69.50	0.150	29.34	0.106	0.138

Uniformity Coefficient (Cu)	1.768
Coefficient of Curvature (Cc)	1.053



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB074A

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB74B
Water Depth (m)	--

Grain Size Data

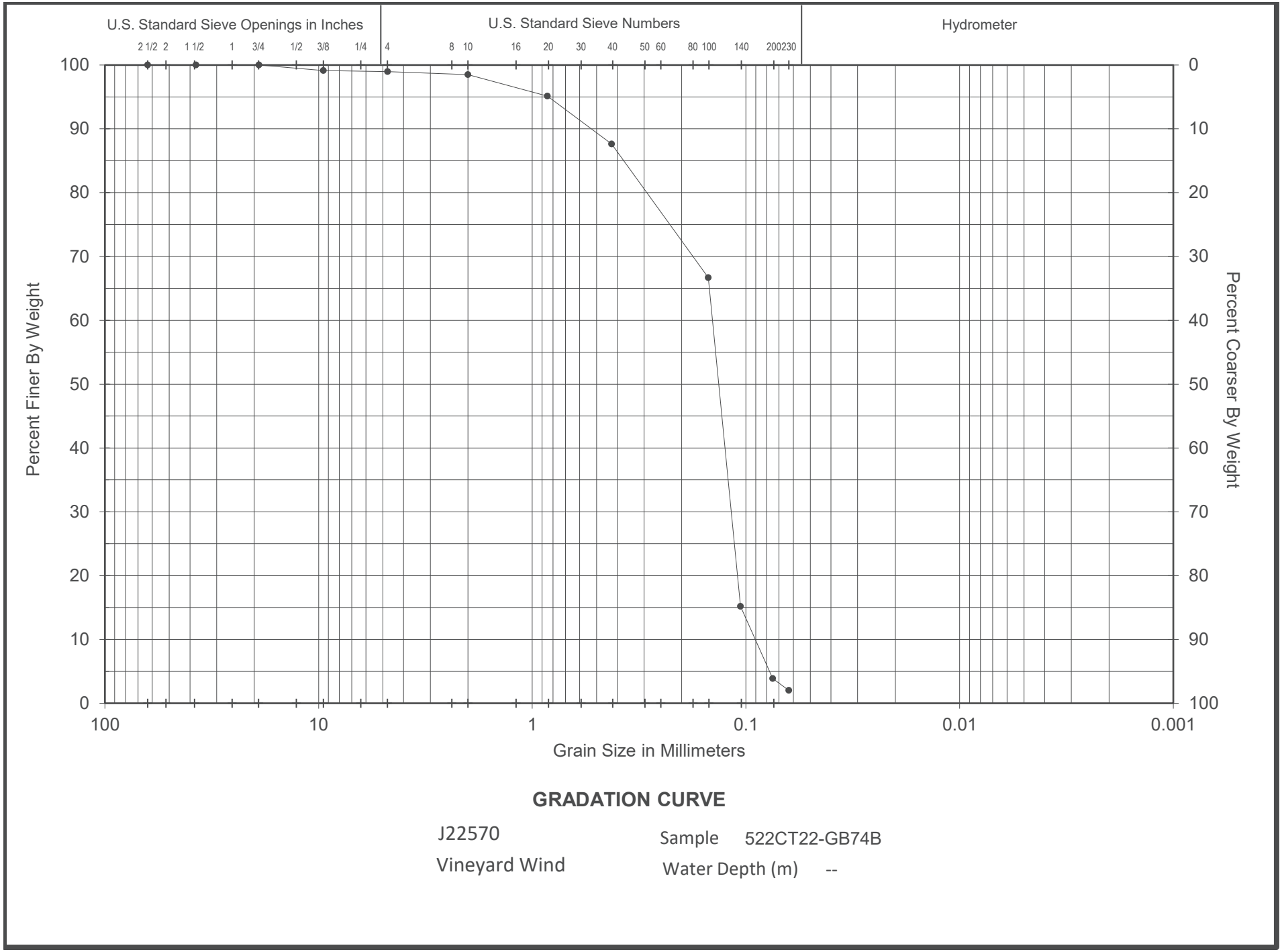
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.13	0.87	
4.75	4	98.98	1.02	
2	10	98.49	1.51	67.96
0.85	20	95.14	4.86	
0.425	40	87.62	12.38	
0.15	100	66.68	33.32	
0.106	140	15.17	84.83	
0.075	200	3.87	96.13	
0.063	230	2.02	97.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.49
% Passing #230	2.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.48
% Gravel-Sized Shell	> 2.00 mm	1.02
% Sand	0.0625 - 2.00 mm	96.48
% Silt and Clay	< 0.0625 mm	2.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.84
% Medium Sand	0.25 - 0.50 mm	7.52
% Fine Sand	0.0625 - 0.25 mm	85.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.17	0.106	3.87	0.075	0.090
D30	30	66.68	0.150	15.17	0.106	0.117
D50	50	66.68	0.150	15.17	0.106	0.134
D60	60	66.68	0.150	15.17	0.106	0.143

Uniformity Coefficient (Cu)	1.585
Coefficient of Curvature (Cc)	1.058



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB74B

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB74C
Water Depth (m)	--

Grain Size Data

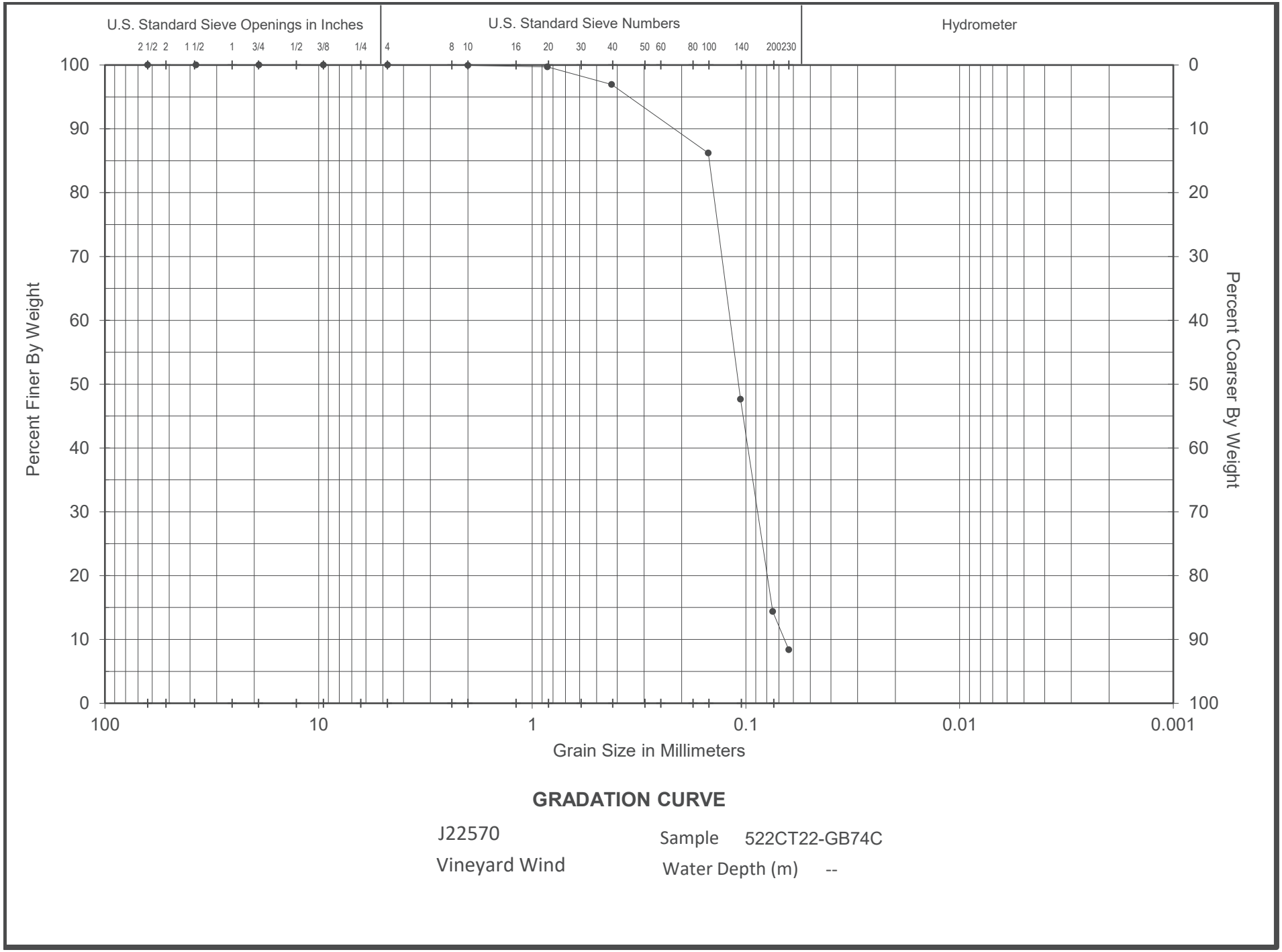
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.95	0.05	0.00
0.85	20	99.70	0.30	
0.425	40	96.96	3.04	
0.15	100	86.21	13.79	
0.106	140	47.62	52.38	
0.075	200	14.38	85.62	
0.063	230	8.37	91.63	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.95
% Passing #230	8.37
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.05
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	91.58
% Silt and Clay	< 0.0625 mm	8.37
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.30
% Medium Sand	0.25 - 0.50 mm	2.74
% Fine Sand	0.0625 - 0.25 mm	88.59

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	14.38	0.075	8.37	0.063	0.066
D30	30	47.62	0.106	14.38	0.075	0.088
D50	50	86.21	0.150	47.62	0.106	0.108
D60	60	86.21	0.150	47.62	0.106	0.118

Uniformity Coefficient (Cu)	1.794
Coefficient of Curvature (Cc)	0.995



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB74C

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB74-1
Water Depth (m)	--

Grain Size Data

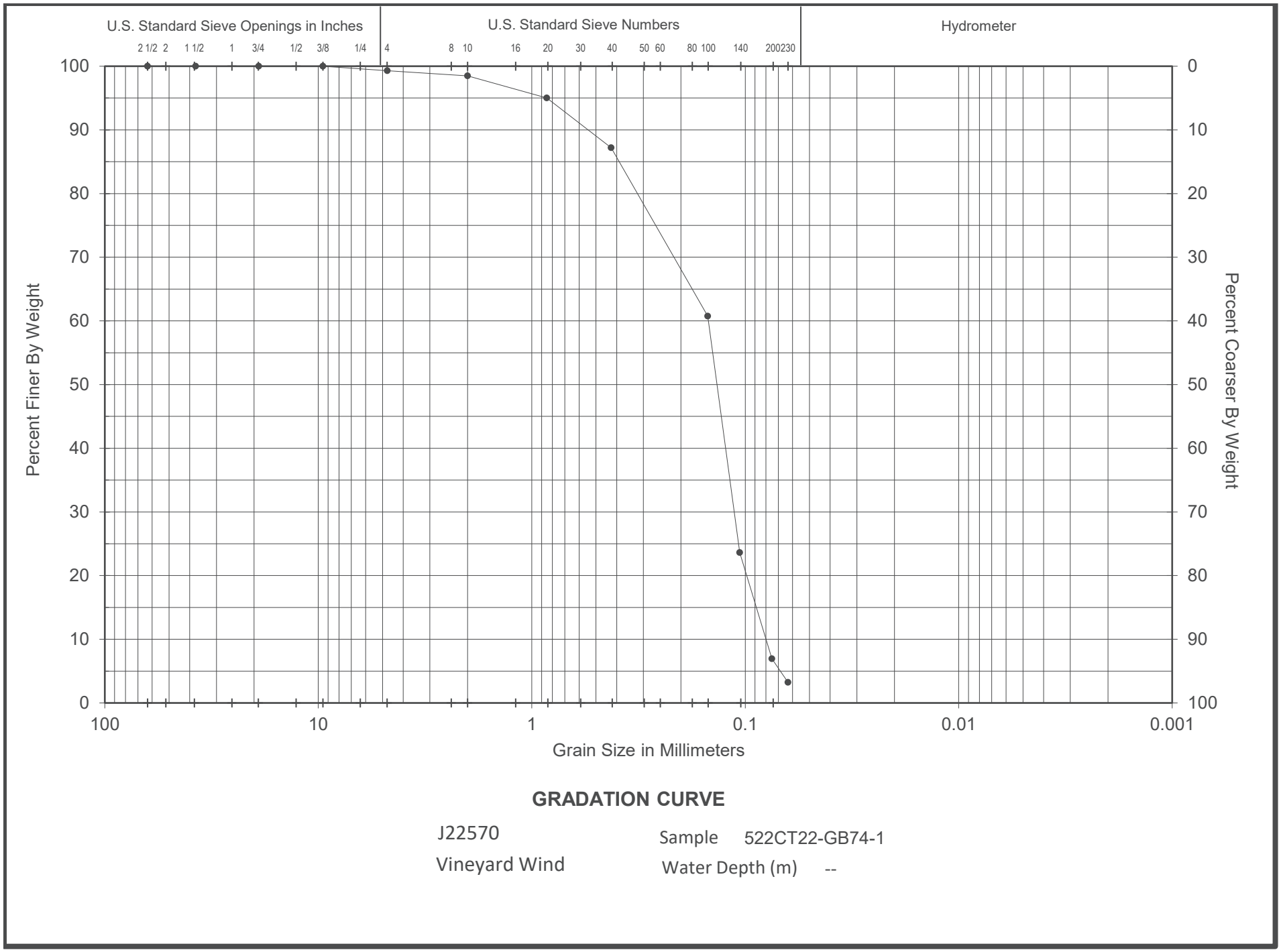
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.28	0.72	
2	10	98.48	1.52	8.78
0.85	20	95.00	5.00	
0.425	40	87.19	12.81	
0.15	100	60.74	39.26	
0.106	140	23.61	76.39	
0.075	200	6.96	93.04	
0.063	230	3.22	96.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.48
% Passing #230	3.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.39
% Gravel-Sized Shell	> 2.00 mm	0.13
% Sand	0.0625 - 2.00 mm	95.25
% Silt and Clay	< 0.0625 mm	3.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.28
% Medium Sand	0.25 - 0.50 mm	7.81
% Fine Sand	0.0625 - 0.25 mm	83.97

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.61	0.106	6.96	0.075	0.080
D30	30	60.74	0.150	23.61	0.106	0.113
D50	50	60.74	0.150	23.61	0.106	0.136
D60	60	60.74	0.150	23.61	0.106	0.149

Uniformity Coefficient (Cu)	1.865
Coefficient of Curvature (Cc)	1.064



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB74-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB75A-1
Water Depth (m)	--

Grain Size Data

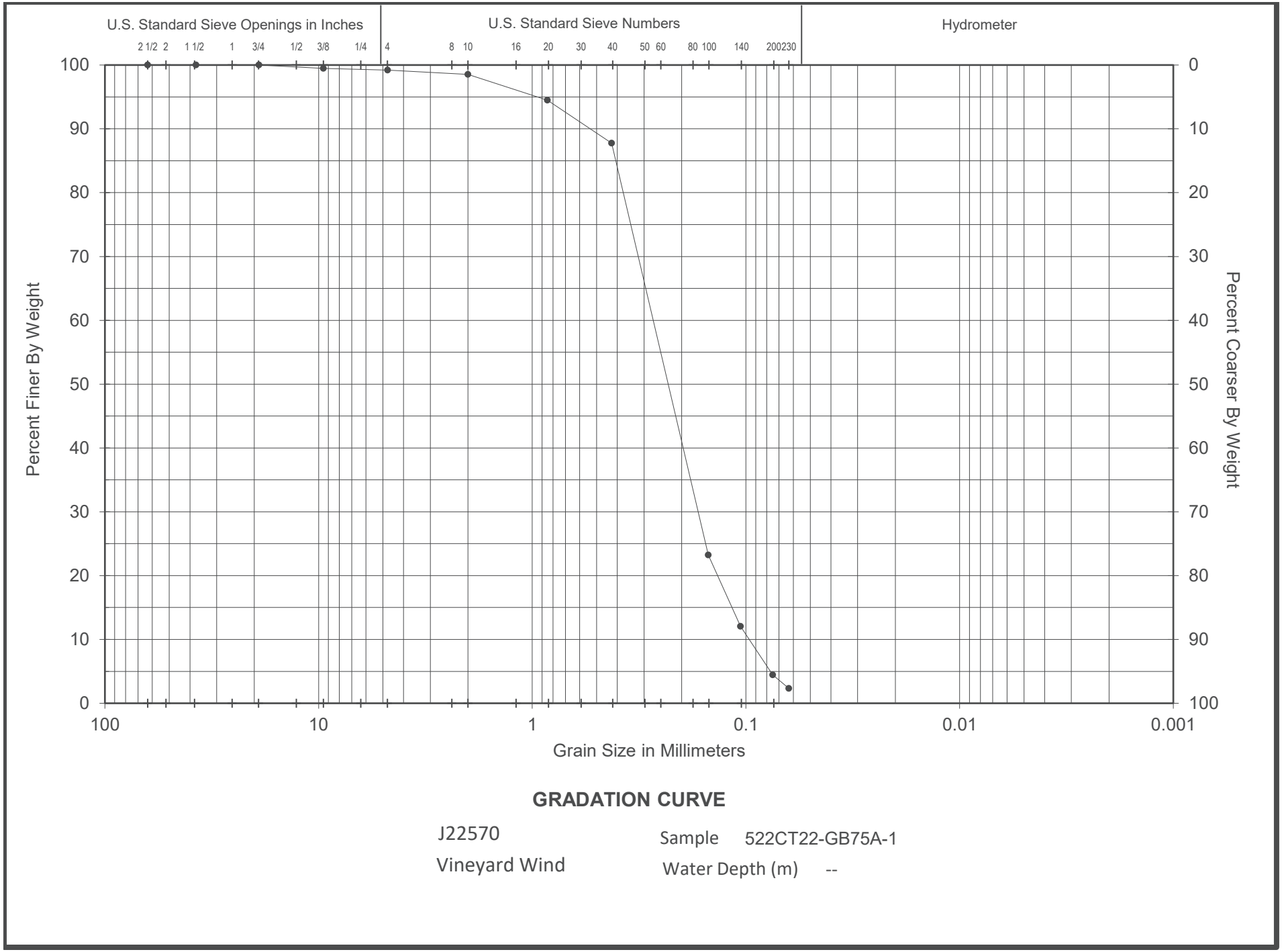
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.48	0.52	
4.75	4	99.21	0.79	
2	10	98.53	1.47	76.80
0.85	20	94.50	5.50	
0.425	40	87.75	12.25	
0.15	100	23.24	76.76	
0.106	140	12.04	87.96	
0.075	200	4.46	95.54	
0.063	230	2.34	97.66	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.53
% Passing #230	2.34
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.34
% Gravel-Sized Shell	> 2.00 mm	1.13
% Sand	0.0625 - 2.00 mm	96.20
% Silt and Clay	< 0.0625 mm	2.34
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.72
% Medium Sand	0.25 - 0.50 mm	6.75
% Fine Sand	0.0625 - 0.25 mm	85.41

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.04	0.106	4.46	0.075	0.097
D30	30	87.75	0.425	23.24	0.150	0.167
D50	50	87.75	0.425	23.24	0.150	0.231
D60	60	87.75	0.425	23.24	0.150	0.272

Uniformity Coefficient (Cu)	2.812
Coefficient of Curvature (Cc)	1.067



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB75A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB75B-1
Water Depth (m)	--

Grain Size Data

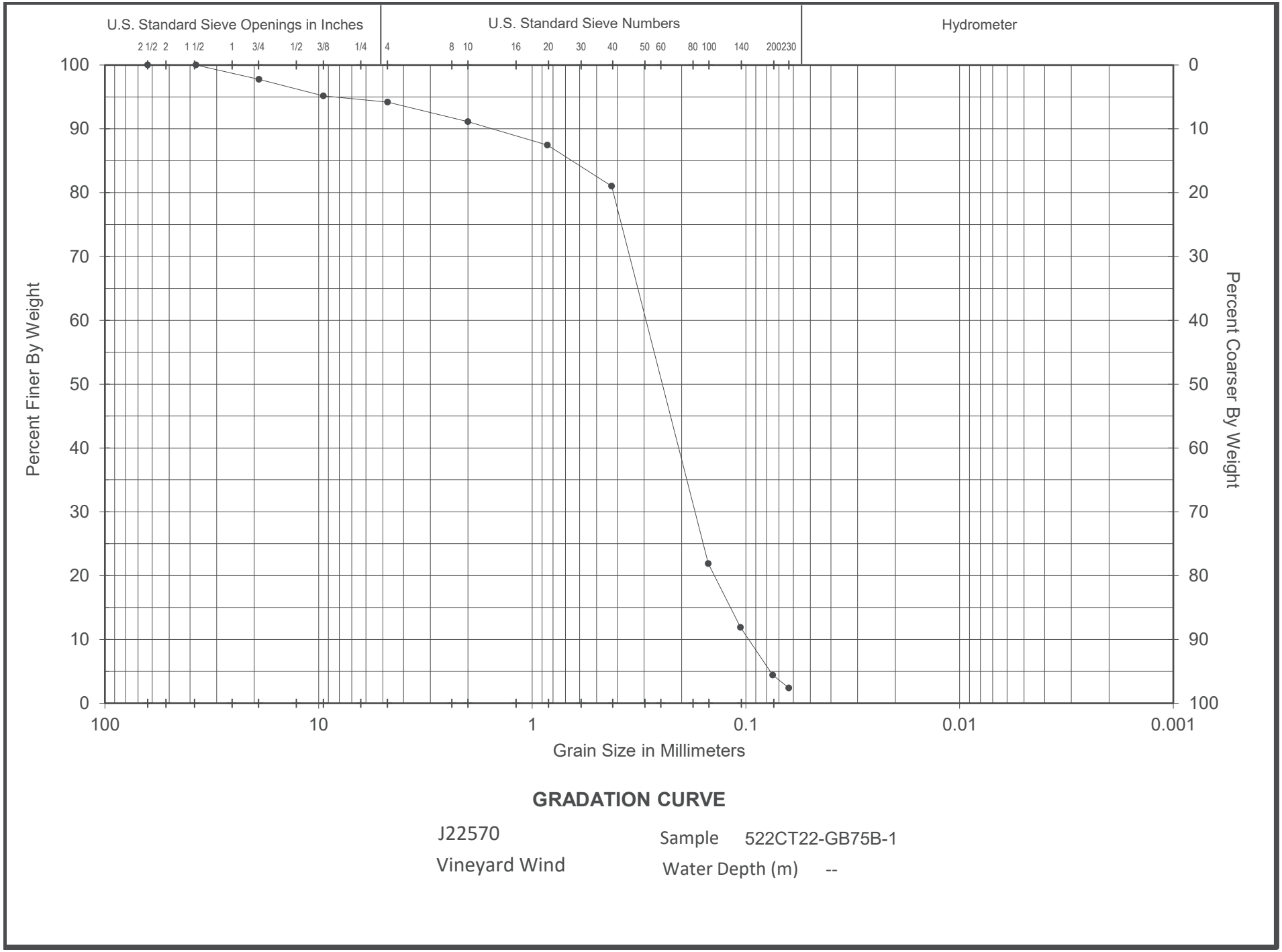
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.74	2.26	
9.5	3/8"	95.17	4.83	
4.75	4	94.19	5.81	
2	10	91.13	8.87	70.69
0.85	20	87.46	12.54	
0.425	40	81.01	18.99	
0.15	100	21.87	78.13	
0.106	140	11.90	88.10	
0.075	200	4.40	95.60	
0.063	230	2.41	97.59	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	91.13
% Passing #230	2.41
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.60
% Gravel-Sized Shell	> 2.00 mm	6.27
% Sand	0.0625 - 2.00 mm	88.72
% Silt and Clay	< 0.0625 mm	2.41
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.73
% Medium Sand	0.25 - 0.50 mm	6.45
% Fine Sand	0.0625 - 0.25 mm	78.60

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.90	0.106	4.40	0.075	0.097
D30	30	81.01	0.425	21.87	0.150	0.173
D50	50	81.01	0.425	21.87	0.150	0.246
D60	60	81.01	0.425	21.87	0.150	0.294

Uniformity Coefficient (Cu)	3.023
Coefficient of Curvature (Cc)	1.051



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB75B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB75C-1
Water Depth (m)	--

Grain Size Data

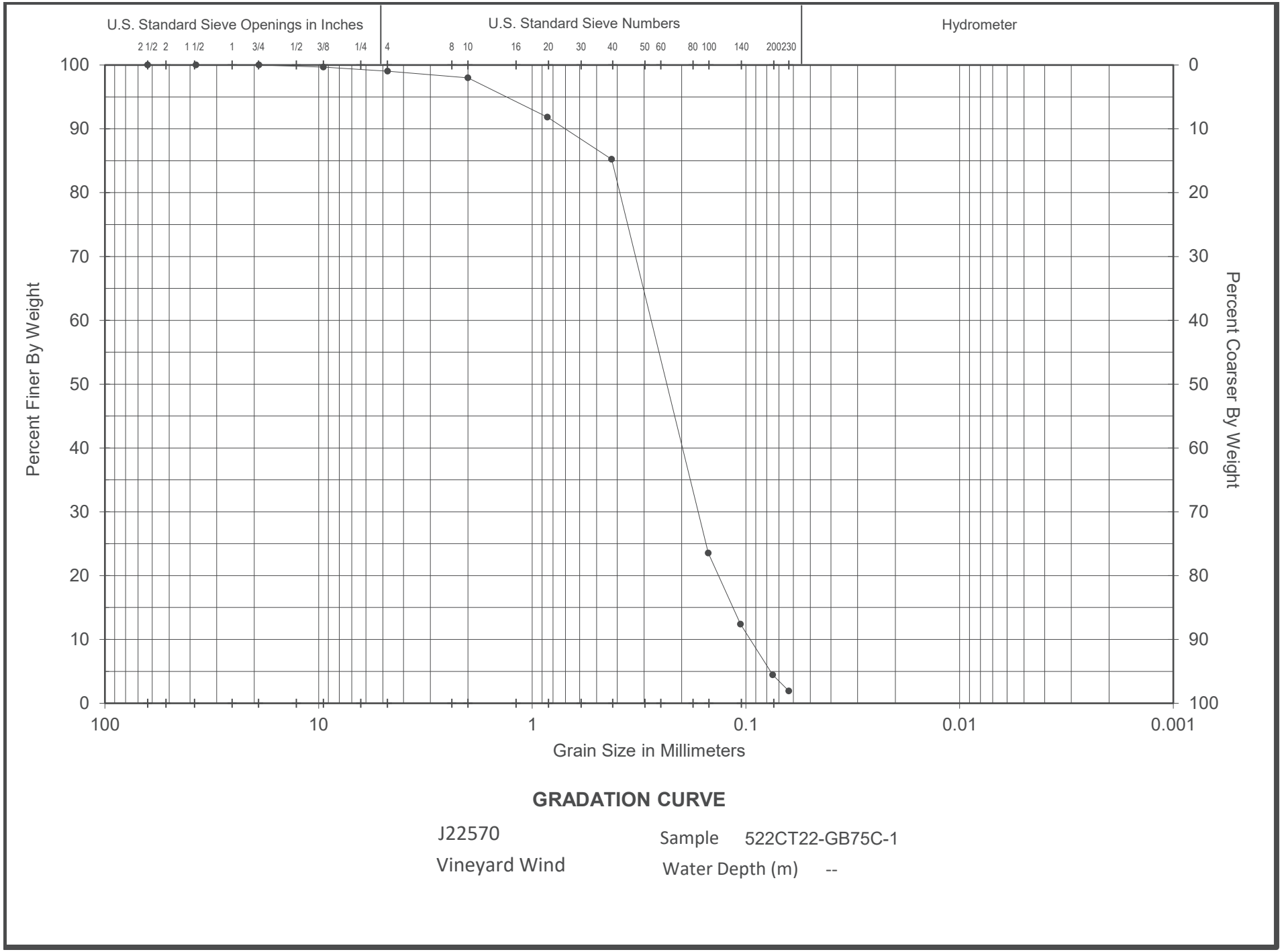
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.66	0.34	
4.75	4	99.03	0.97	
2	10	97.98	2.02	46.48
0.85	20	91.84	8.16	
0.425	40	85.23	14.77	
0.15	100	23.53	76.47	
0.106	140	12.39	87.61	
0.075	200	4.43	95.57	
0.063	230	1.93	98.07	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.98
% Passing #230	1.93
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.08
% Gravel-Sized Shell	> 2.00 mm	0.94
% Sand	0.0625 - 2.00 mm	96.06
% Silt and Clay	< 0.0625 mm	1.93
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.19
% Medium Sand	0.25 - 0.50 mm	6.61
% Fine Sand	0.0625 - 0.25 mm	83.30

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.39	0.106	4.43	0.075	0.096
D30	30	85.23	0.425	23.53	0.150	0.167
D50	50	85.23	0.425	23.53	0.150	0.235
D60	60	85.23	0.425	23.53	0.150	0.278

Uniformity Coefficient (Cu)	2.906
Coefficient of Curvature (Cc)	1.055



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB75C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB76-1
Water Depth (m)	--

Grain Size Data

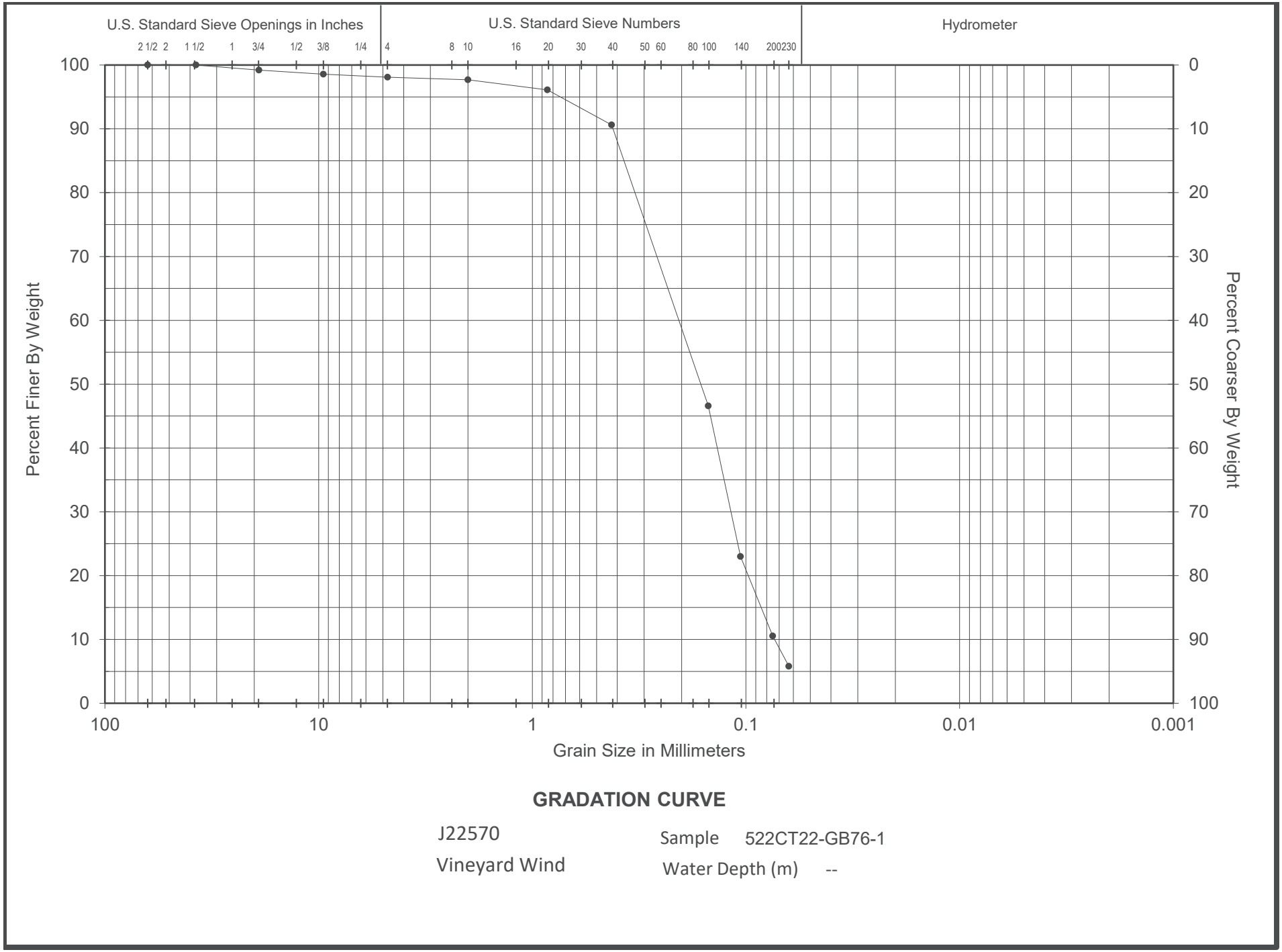
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	99.21	0.79	
9.5	3/8"	98.55	1.45	
4.75	4	98.08	1.92	
2	10	97.68	2.32	39.52
0.85	20	96.12	3.88	
0.425	40	90.61	9.39	
0.15	100	46.61	53.39	
0.106	140	23.01	76.99	
0.075	200	10.53	89.47	
0.063	230	5.81	94.19	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.68
% Passing #230	5.81
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.40
% Gravel-Sized Shell	> 2.00 mm	0.92
% Sand	0.0625 - 2.00 mm	91.87
% Silt and Clay	< 0.0625 mm	5.81
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.96
% Medium Sand	0.25 - 0.50 mm	5.51
% Fine Sand	0.0625 - 0.25 mm	84.81

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.53	0.075	5.81	0.063	0.074
D30	30	46.61	0.150	23.01	0.106	0.117
D50	50	90.61	0.425	46.61	0.150	0.163
D60	60	90.61	0.425	46.61	0.150	0.206

Uniformity Coefficient (Cu)	2.800
Coefficient of Curvature (Cc)	0.911



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB76-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB77A-1
Water Depth (m)	--

Grain Size Data

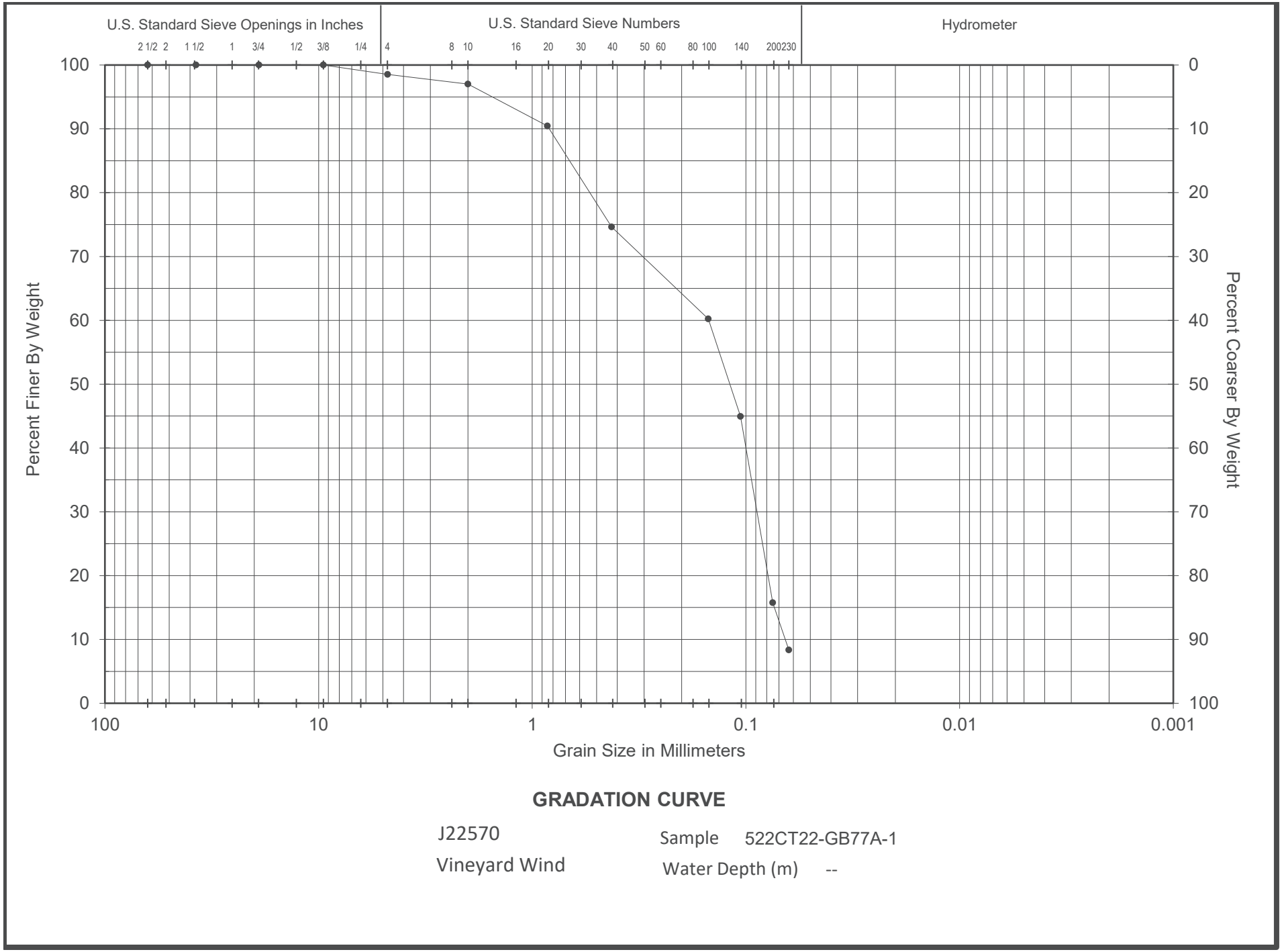
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.53	1.47	
2	10	97.02	2.98	10.13
0.85	20	90.45	9.55	
0.425	40	74.64	25.36	
0.15	100	60.23	39.77	
0.106	140	44.95	55.05	
0.075	200	15.76	84.24	
0.063	230	8.36	91.64	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.02
% Passing #230	8.36
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.68
% Gravel-Sized Shell	> 2.00 mm	0.30
% Sand	0.0625 - 2.00 mm	88.65
% Silt and Clay	< 0.0625 mm	8.36
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	8.07
% Medium Sand	0.25 - 0.50 mm	15.82
% Fine Sand	0.0625 - 0.25 mm	66.27

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.76	0.075	8.36	0.063	0.065
D30	30	44.95	0.106	15.76	0.075	0.089
D50	50	60.23	0.150	44.95	0.106	0.119
D60	60	60.23	0.150	44.95	0.106	0.149

Uniformity Coefficient (Cu)	2.279
Coefficient of Curvature (Cc)	0.807



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB77A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB77B-1
Water Depth (m)	--

Grain Size Data

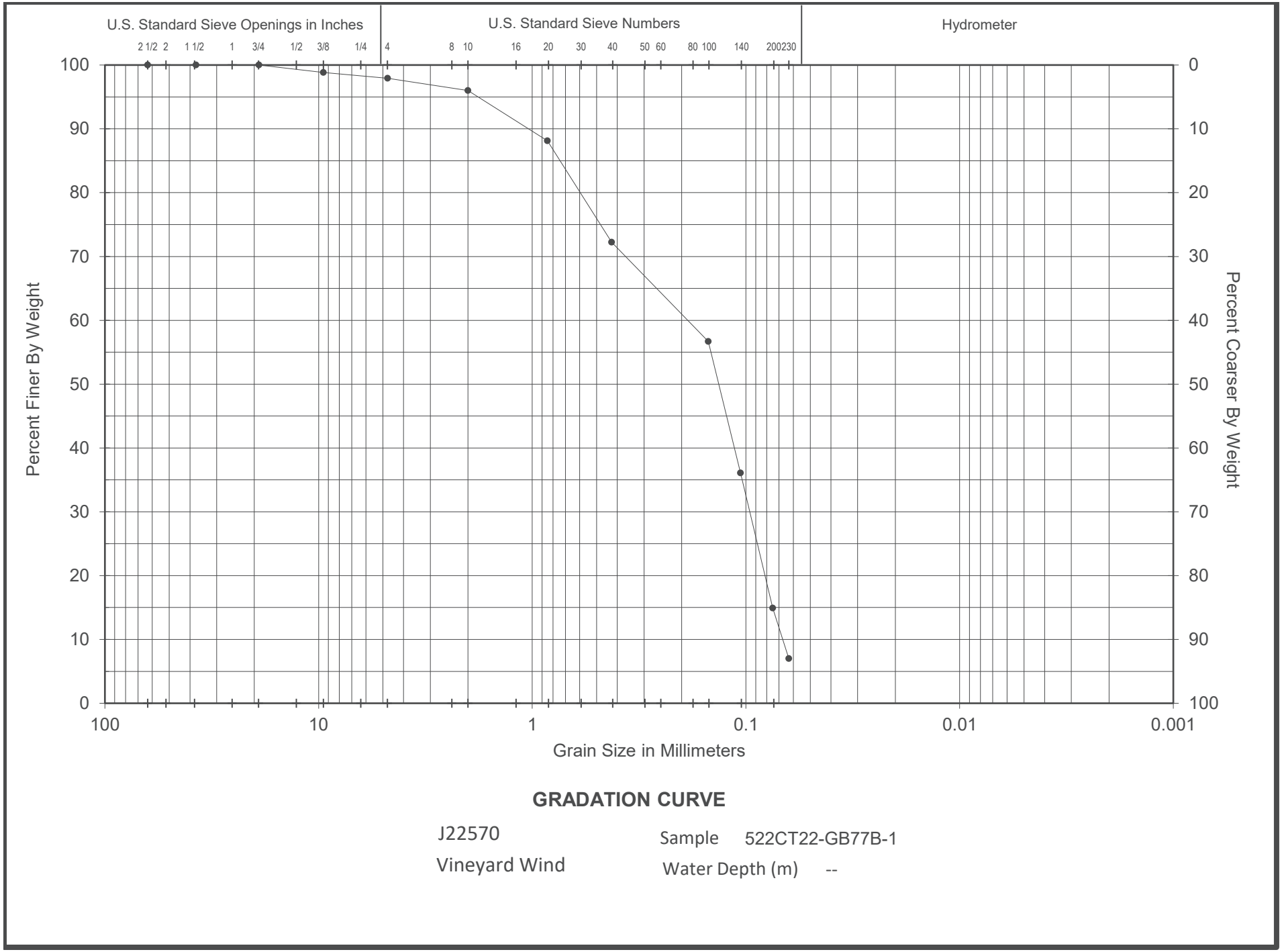
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.85	1.15	
4.75	4	97.92	2.08	
2	10	96.02	3.98	23.78
0.85	20	88.12	11.88	
0.425	40	72.25	27.75	
0.15	100	56.69	43.31	
0.106	140	36.08	63.92	
0.075	200	14.91	85.09	
0.063	230	7.00	93.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.02
% Passing #230	7.00
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	3.04
% Gravel-Sized Shell	> 2.00 mm	0.95
% Sand	0.0625 - 2.00 mm	89.02
% Silt and Clay	< 0.0625 mm	7.00
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.80
% Medium Sand	0.25 - 0.50 mm	15.88
% Fine Sand	0.0625 - 0.25 mm	65.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	14.91	0.075	7.00	0.063	0.067
D30	30	36.08	0.106	14.91	0.075	0.096
D50	50	56.69	0.150	36.08	0.106	0.134
D60	60	72.25	0.425	56.69	0.150	0.187

Uniformity Coefficient (Cu)	2.781
Coefficient of Curvature (Cc)	0.731



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB77B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB77C-1
Water Depth (m)	--

Grain Size Data

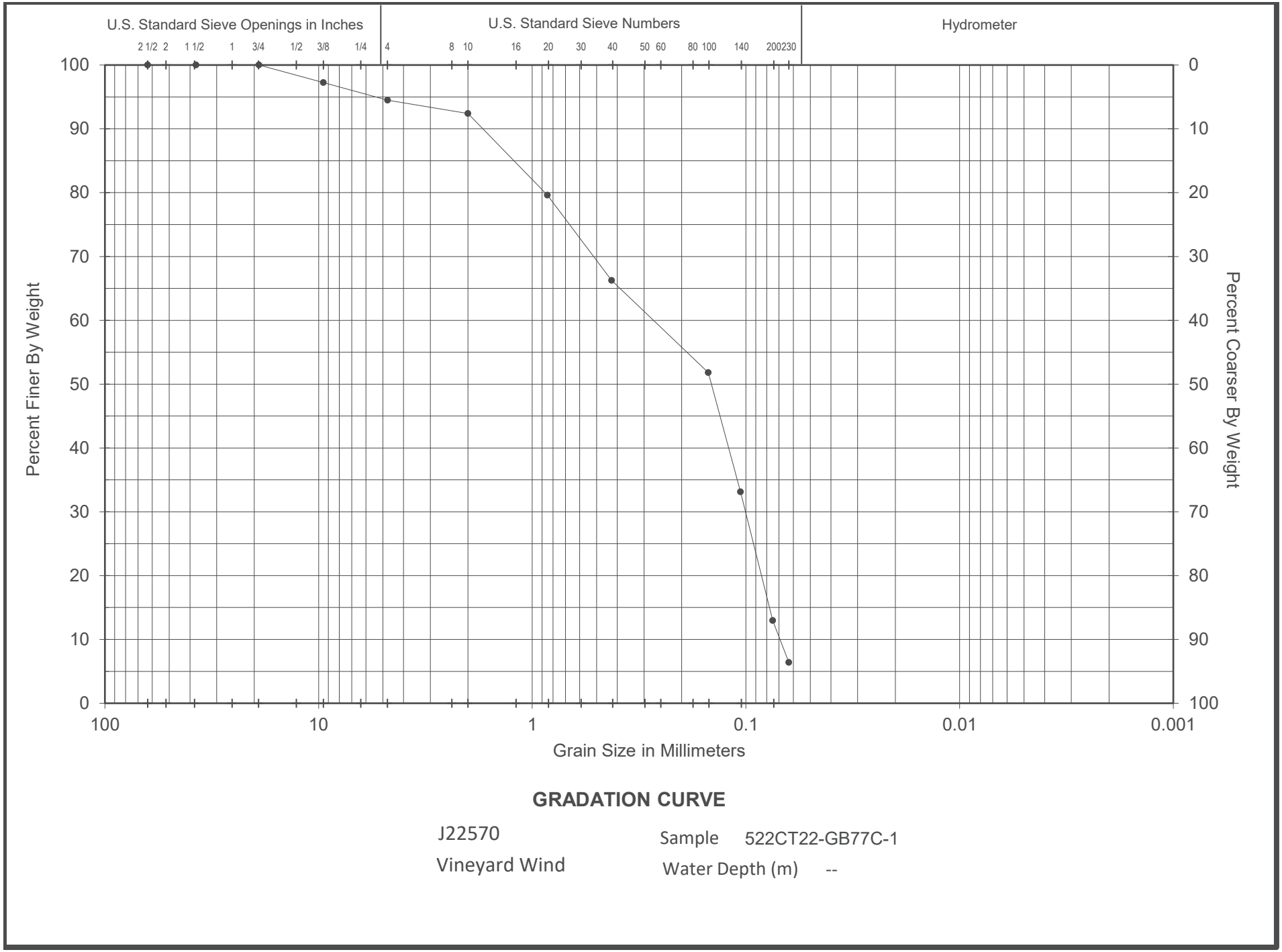
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	97.26	2.74	
4.75	4	94.49	5.51	
2	10	92.40	7.60	3.20
0.85	20	79.60	20.40	
0.425	40	66.25	33.75	
0.15	100	51.82	48.18	
0.106	140	33.11	66.89	
0.075	200	12.98	87.02	
0.063	230	6.40	93.60	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	92.40
% Passing #230	6.40
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	7.36
% Gravel-Sized Shell	> 2.00 mm	0.24
% Sand	0.0625 - 2.00 mm	86.00
% Silt and Clay	< 0.0625 mm	6.40
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.89
% Medium Sand	0.25 - 0.50 mm	13.35
% Fine Sand	0.0625 - 0.25 mm	59.85

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	12.98	0.075	6.40	0.063	0.069
D30	30	33.11	0.106	12.98	0.075	0.100
D50	50	51.82	0.150	33.11	0.106	0.145
D60	60	66.25	0.425	51.82	0.150	0.271

Uniformity Coefficient (Cu)	3.905
Coefficient of Curvature (Cc)	0.538



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB77C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB78-1
Water Depth (m)	--

Grain Size Data

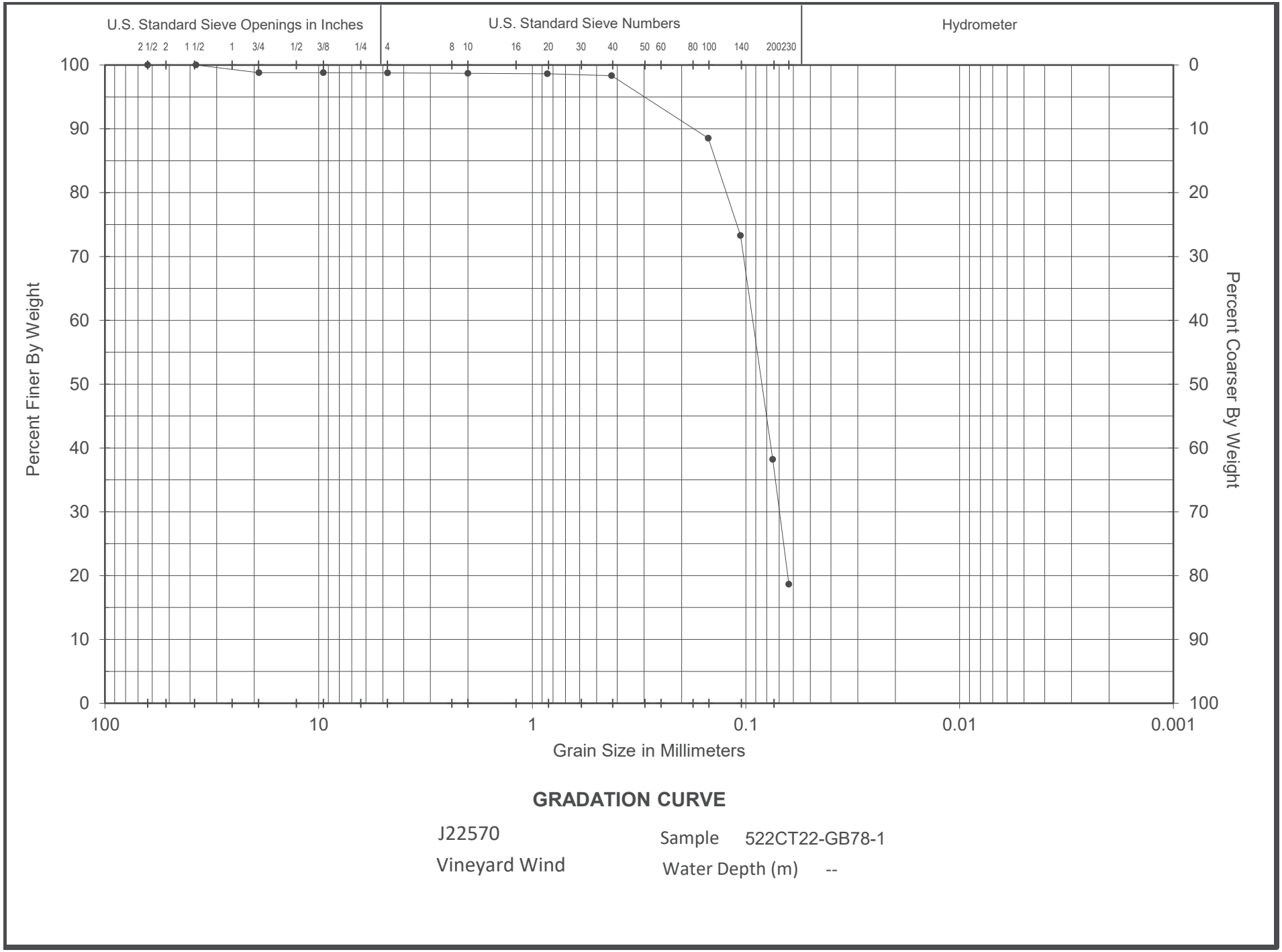
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.79	1.21	
9.5	3/8"	98.79	1.21	
4.75	4	98.77	1.23	
2	10	98.70	1.30	97.69
0.85	20	98.63	1.37	
0.425	40	98.33	1.67	
0.15	100	88.52	11.48	
0.106	140	73.29	26.71	
0.075	200	38.19	61.81	
0.063	230	18.67	81.33	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.70
% Passing #230	18.67
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.03
% Gravel-Sized Shell	> 2.00 mm	1.27
% Sand	0.0625 - 2.00 mm	80.03
% Silt and Clay	< 0.0625 mm	18.67
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.13
% Medium Sand	0.25 - 0.50 mm	0.31
% Fine Sand	0.0625 - 0.25 mm	79.66

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	18.67	0.063	#N/A	#N/A	#N/A
D30	30	38.19	0.075	18.67	0.063	0.070
D50	50	73.29	0.106	38.19	0.075	0.084
D60	60	73.29	0.106	38.19	0.075	0.093

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB78-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB79A-1
Water Depth (m)	--

Grain Size Data

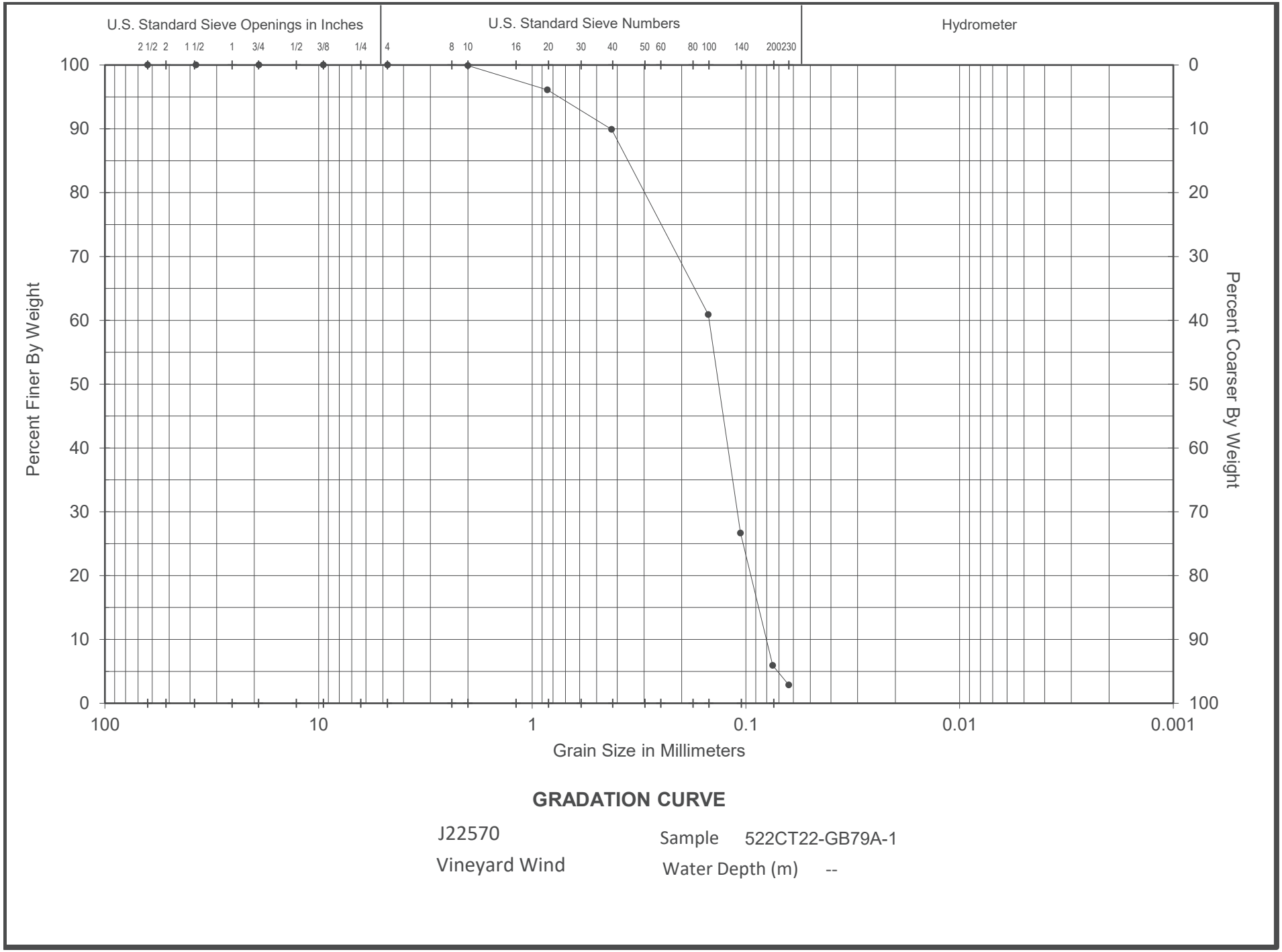
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.93	0.07	0.00
0.85	20	96.11	3.89	
0.425	40	89.90	10.10	
0.15	100	60.90	39.10	
0.106	140	26.65	73.35	
0.075	200	5.94	94.06	
0.063	230	2.87	97.13	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.93
% Passing #230	2.87
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.07
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.06
% Silt and Clay	< 0.0625 mm	2.87
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.89
% Medium Sand	0.25 - 0.50 mm	6.21
% Fine Sand	0.0625 - 0.25 mm	87.04

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	26.65	0.106	5.94	0.075	0.080
D30	30	60.90	0.150	26.65	0.106	0.110
D50	50	60.90	0.150	26.65	0.106	0.134
D60	60	60.90	0.150	26.65	0.106	0.149

Uniformity Coefficient (Cu)	1.852
Coefficient of Curvature (Cc)	1.008



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB79A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB79B-1
Water Depth (m)	--

Grain Size Data

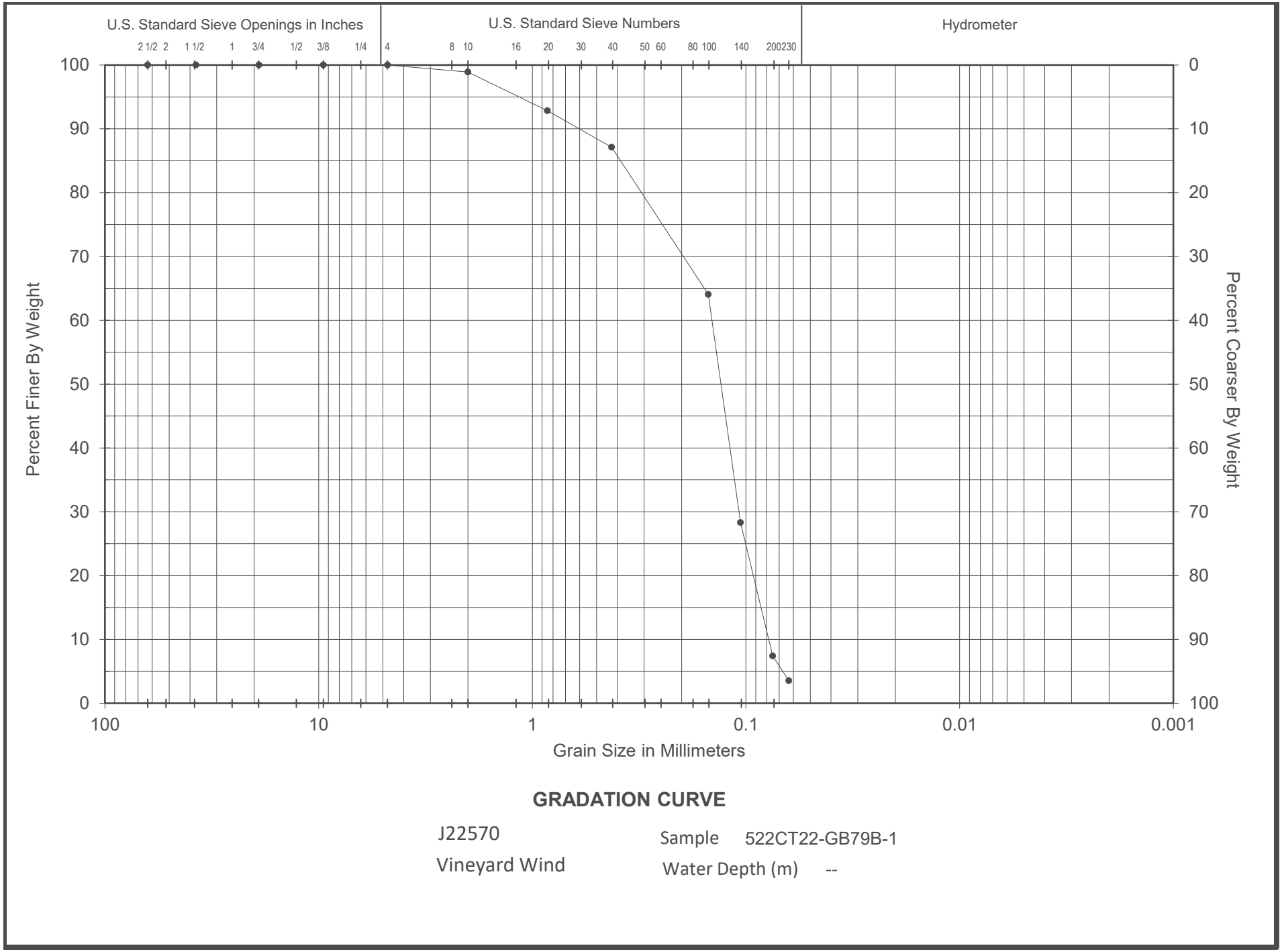
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	98.89	1.11	0.00
0.85	20	92.83	7.17	
0.425	40	87.11	12.89	
0.15	100	64.07	35.93	
0.106	140	28.31	71.69	
0.075	200	7.40	92.60	
0.063	230	3.55	96.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.89
% Passing #230	3.55
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.11
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	95.34
% Silt and Clay	< 0.0625 mm	3.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.17
% Medium Sand	0.25 - 0.50 mm	5.73
% Fine Sand	0.0625 - 0.25 mm	83.56

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	28.31	0.106	7.40	0.075	0.078
D30	30	64.07	0.150	28.31	0.106	0.108
D50	50	64.07	0.150	28.31	0.106	0.131
D60	60	64.07	0.150	28.31	0.106	0.144

Uniformity Coefficient (Cu)	1.842
Coefficient of Curvature (Cc)	1.028



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB79B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB79C-1
Water Depth (m)	--

Grain Size Data

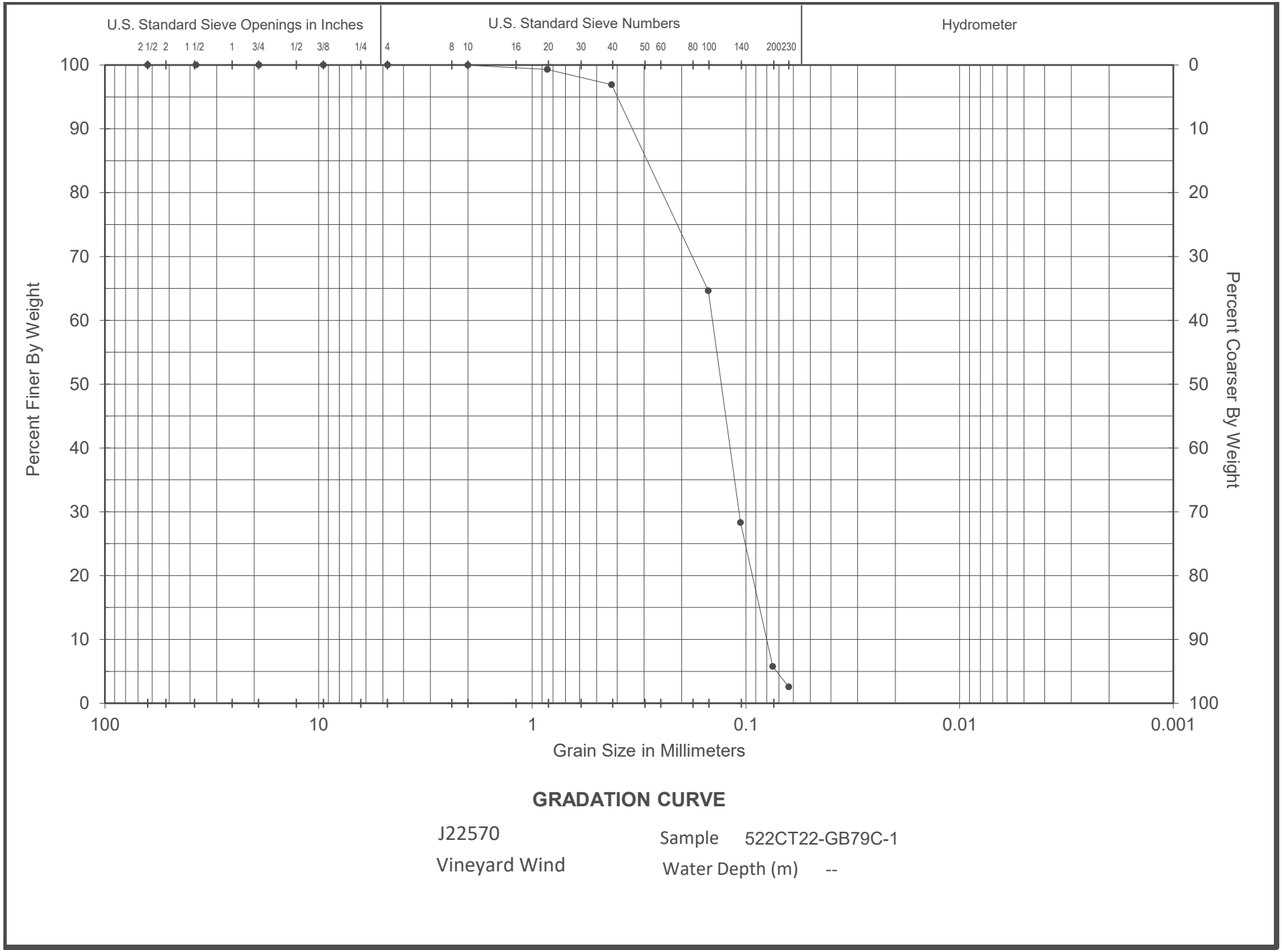
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	100.00
0.85	20	99.29	0.71	
0.425	40	96.91	3.09	
0.15	100	64.64	35.36	
0.106	140	28.30	71.70	
0.075	200	5.75	94.25	
0.063	230	2.55	97.45	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	2.55
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	97.41
% Silt and Clay	< 0.0625 mm	2.55
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.71
% Medium Sand	0.25 - 0.50 mm	2.38
% Fine Sand	0.0625 - 0.25 mm	94.36

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	28.30	0.106	5.75	0.075	0.080
D30	30	64.64	0.150	28.30	0.106	0.108
D50	50	64.64	0.150	28.30	0.106	0.130
D60	60	64.64	0.150	28.30	0.106	0.143

Uniformity Coefficient (Cu)	1.793
Coefficient of Curvature (Cc)	1.010



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB79C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB80-3A-1
Water Depth (m)	--

Grain Size Data

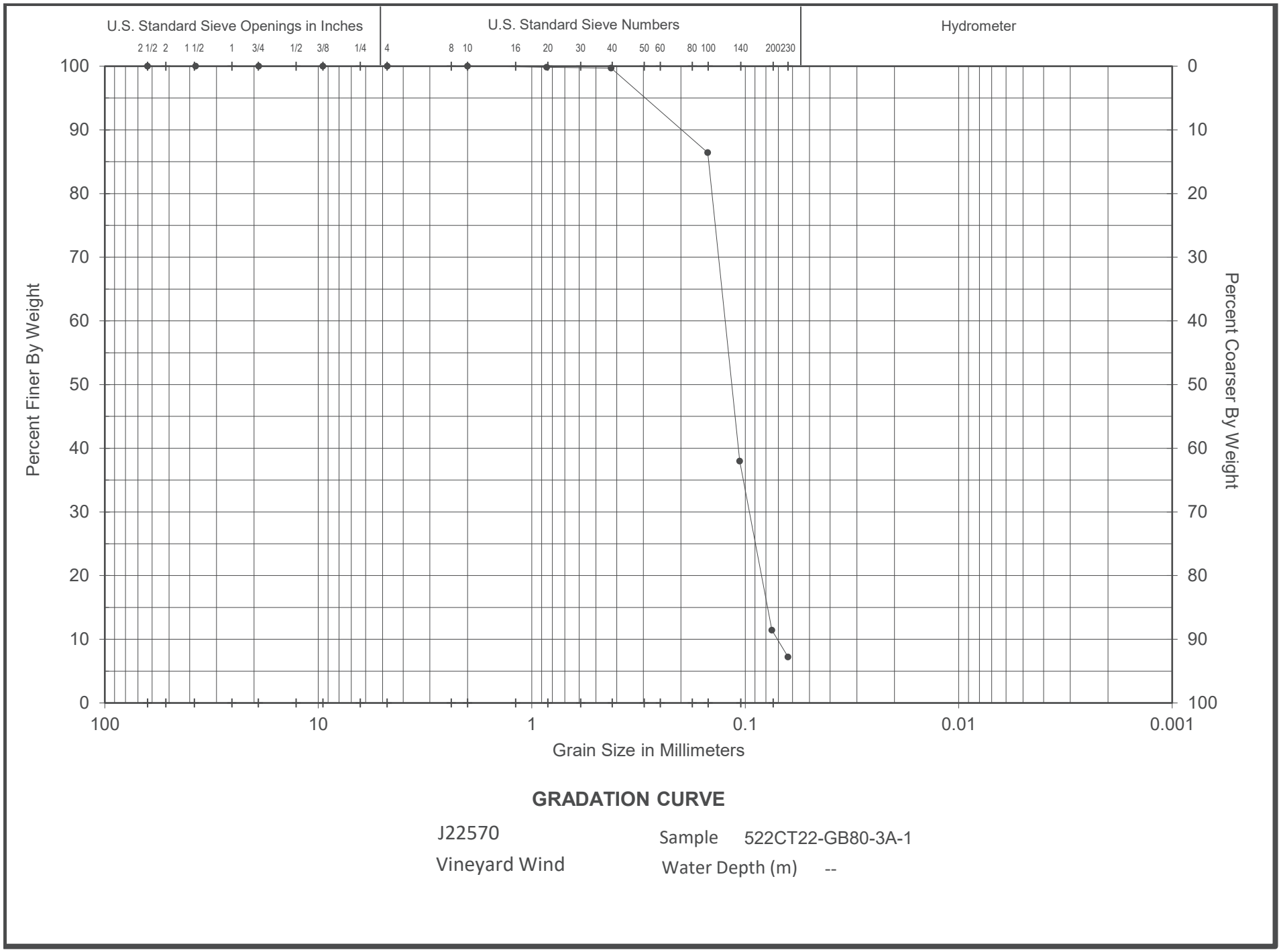
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.85	0.15	
0.425	40	99.72	0.28	
0.15	100	86.42	13.58	
0.106	140	37.99	62.01	
0.075	200	11.43	88.57	
0.063	230	7.22	92.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	7.22
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	92.78
% Silt and Clay	< 0.0625 mm	7.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.15
% Medium Sand	0.25 - 0.50 mm	0.13
% Fine Sand	0.0625 - 0.25 mm	92.49

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.43	0.075	7.22	0.063	0.071
D30	30	37.99	0.106	11.43	0.075	0.096
D50	50	86.42	0.150	37.99	0.106	0.116
D60	60	86.42	0.150	37.99	0.106	0.124

Uniformity Coefficient (Cu)	1.756
Coefficient of Curvature (Cc)	1.040



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB80-3A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB80-3B-1
Water Depth (m)	--

Grain Size Data

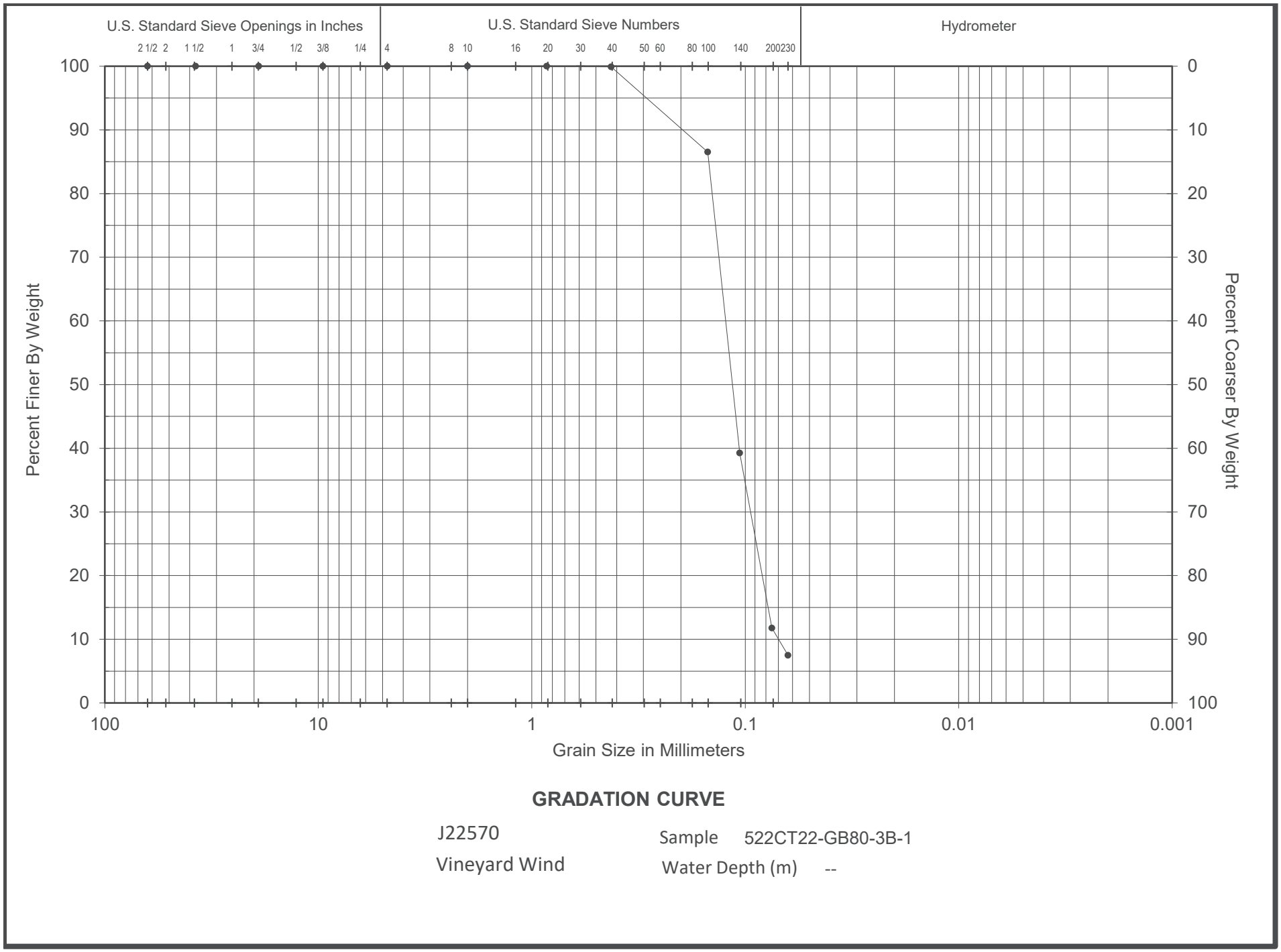
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.89	0.11	
0.15	100	86.53	13.47	
0.106	140	39.25	60.75	
0.075	200	11.76	88.24	
0.063	230	7.48	92.52	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	7.48
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	92.52
% Silt and Clay	< 0.0625 mm	7.48
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.10
% Fine Sand	0.0625 - 0.25 mm	92.40

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.76	0.075	7.48	0.063	0.070
D30	30	39.25	0.106	11.76	0.075	0.094
D50	50	86.53	0.150	39.25	0.106	0.115
D60	60	86.53	0.150	39.25	0.106	0.123

Uniformity Coefficient (Cu)	1.769
Coefficient of Curvature (Cc)	1.033



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB80-3B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB80-3C-1
Water Depth (m)	--

Grain Size Data

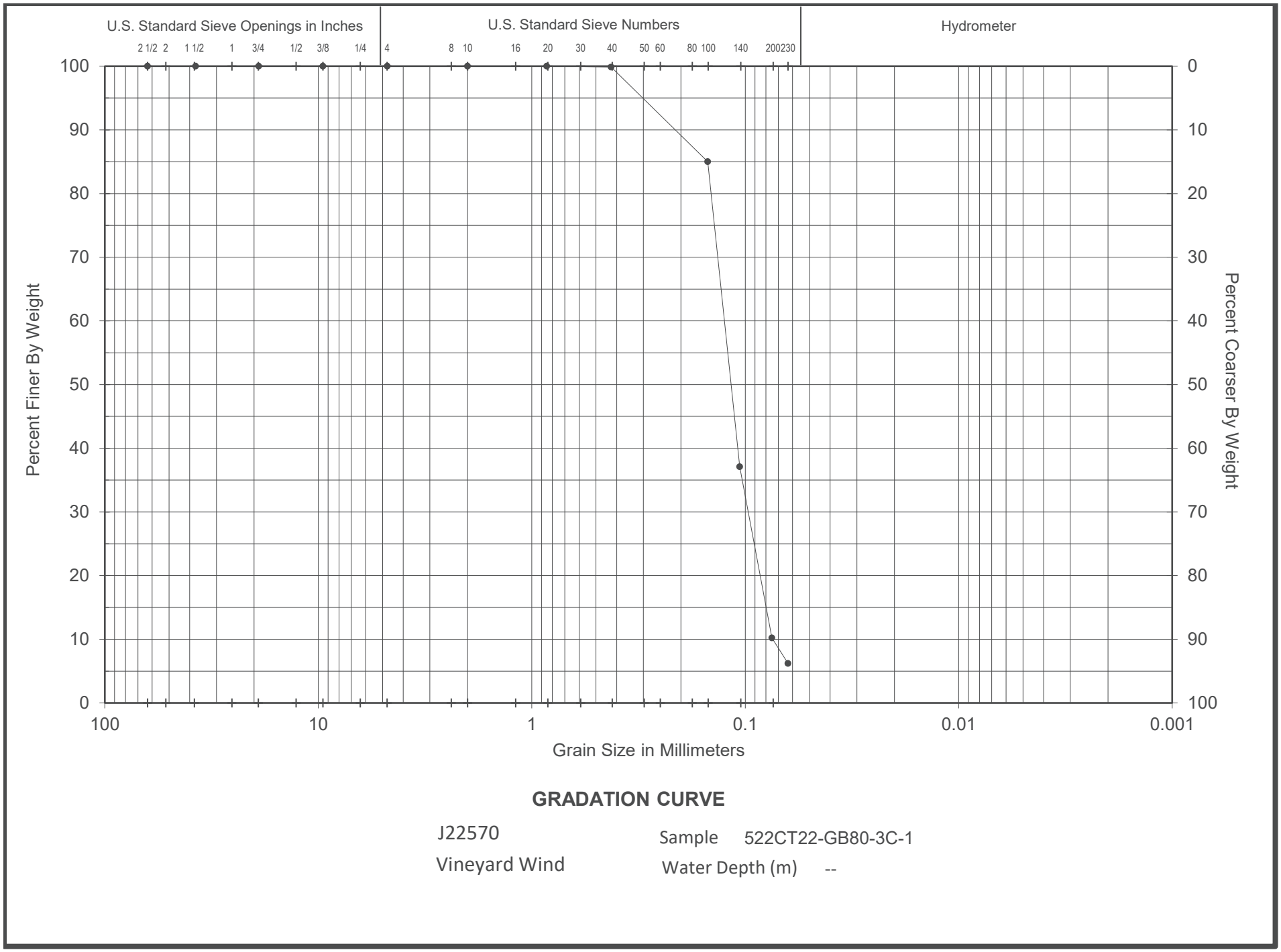
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.99	0.01	
0.425	40	99.88	0.12	
0.15	100	85.02	14.98	
0.106	140	37.08	62.92	
0.075	200	10.21	89.79	
0.063	230	6.20	93.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	6.20
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	93.80
% Silt and Clay	< 0.0625 mm	6.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.01
% Medium Sand	0.25 - 0.50 mm	0.11
% Fine Sand	0.0625 - 0.25 mm	93.67

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	10.21	0.075	6.20	0.063	0.074
D30	30	37.08	0.106	10.21	0.075	0.097
D50	50	85.02	0.150	37.08	0.106	0.116
D60	60	85.02	0.150	37.08	0.106	0.125

Uniformity Coefficient (Cu)	1.684
Coefficient of Curvature (Cc)	1.007



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB80-3C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB80-1
Water Depth (m)	--

Grain Size Data

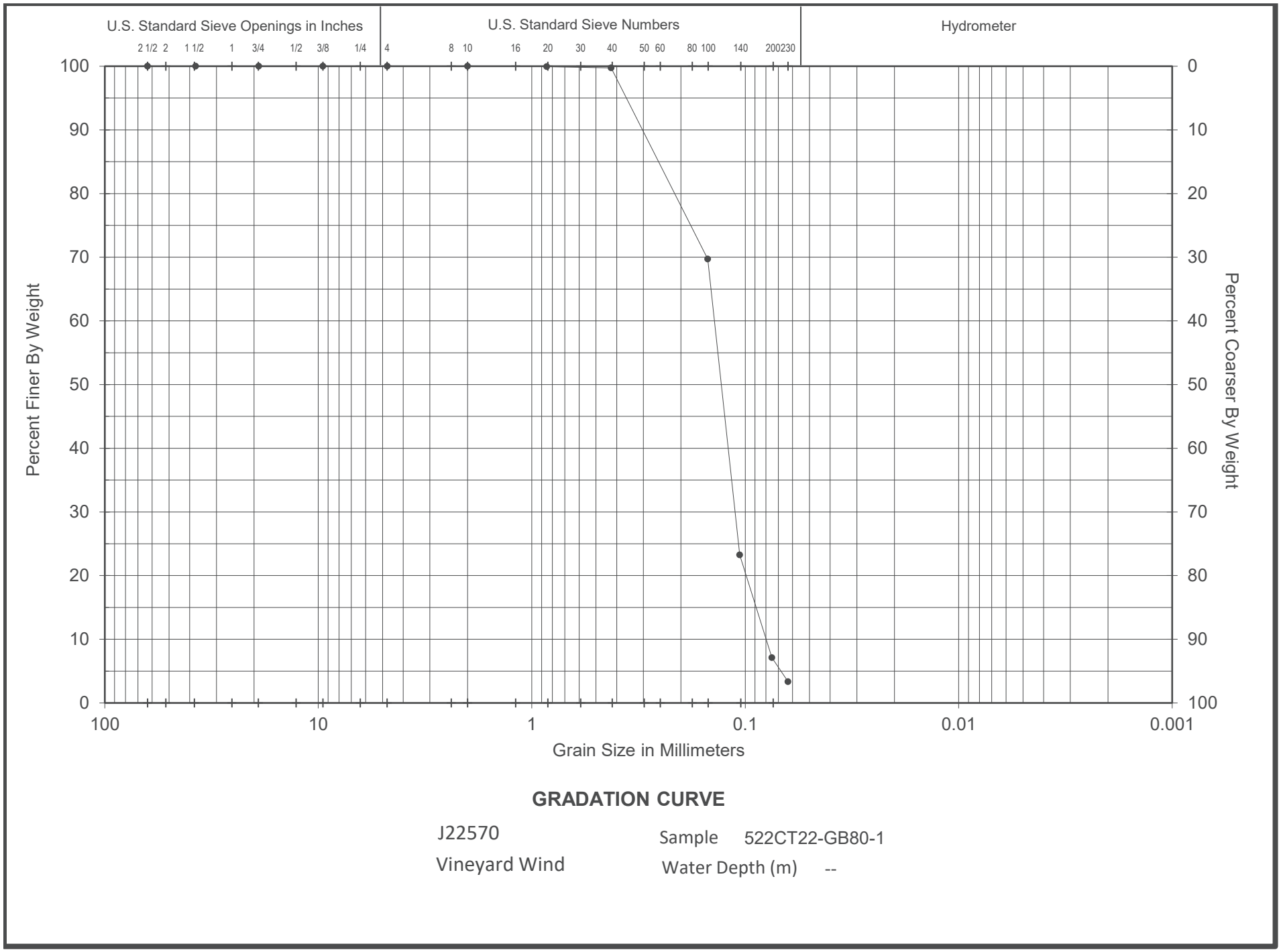
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.93	0.07	
0.425	40	99.74	0.26	
0.15	100	69.71	30.29	
0.106	140	23.25	76.75	
0.075	200	7.13	92.87	
0.063	230	3.35	96.65	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	3.35
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	96.64
% Silt and Clay	< 0.0625 mm	3.35
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.07
% Medium Sand	0.25 - 0.50 mm	0.20
% Fine Sand	0.0625 - 0.25 mm	96.39

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.25	0.106	7.13	0.075	0.080
D30	30	69.71	0.150	23.25	0.106	0.111
D50	50	69.71	0.150	23.25	0.106	0.129
D60	60	69.71	0.150	23.25	0.106	0.140

Uniformity Coefficient (Cu)	1.749
Coefficient of Curvature (Cc)	1.117



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB80-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB81A-1
Water Depth (m)	--

Grain Size Data

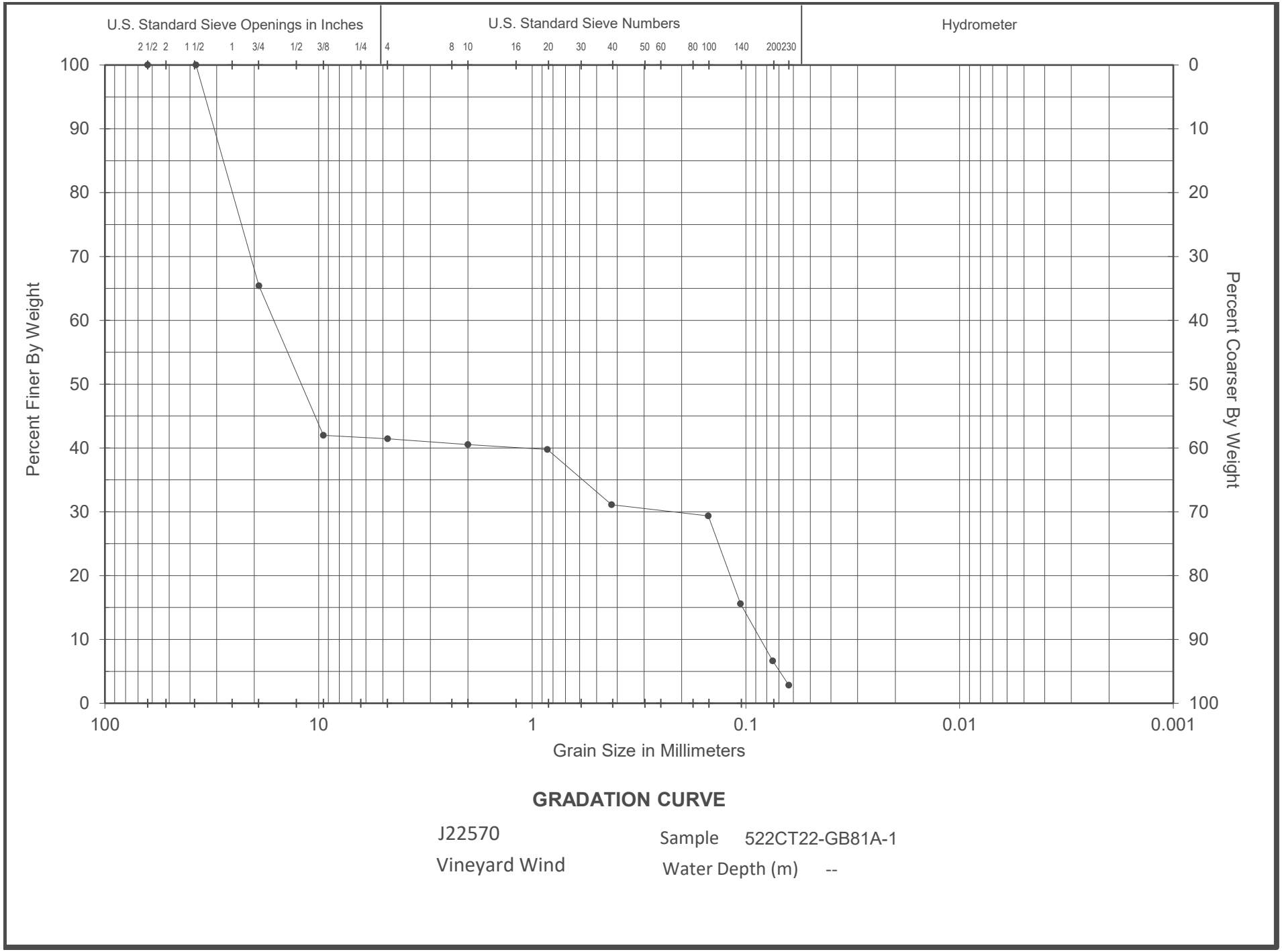
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	65.40	34.60	
9.5	3/8"	41.98	58.02	
4.75	4	41.43	58.57	
2	10	40.53	59.47	100.00
0.85	20	39.75	60.25	
0.425	40	31.11	68.89	
0.15	100	29.35	70.65	
0.106	140	15.60	84.40	
0.075	200	6.64	93.36	
0.063	230	2.83	97.17	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	40.53
% Passing #230	2.83
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	59.47
% Sand	0.0625 - 2.00 mm	37.70
% Silt and Clay	< 0.0625 mm	2.83
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.68
% Medium Sand	0.25 - 0.50 mm	8.65
% Fine Sand	0.0625 - 0.25 mm	28.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.60	0.106	6.64	0.075	0.085
D30	30	31.11	0.425	29.35	0.150	0.220
D50	50	65.40	19.000	41.98	9.500	12.045
D60	60	65.40	19.000	41.98	9.500	16.195

Uniformity Coefficient (Cu)	189.672
Coefficient of Curvature (Cc)	0.035



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB81A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB81B-1
Water Depth (m)	--

Grain Size Data

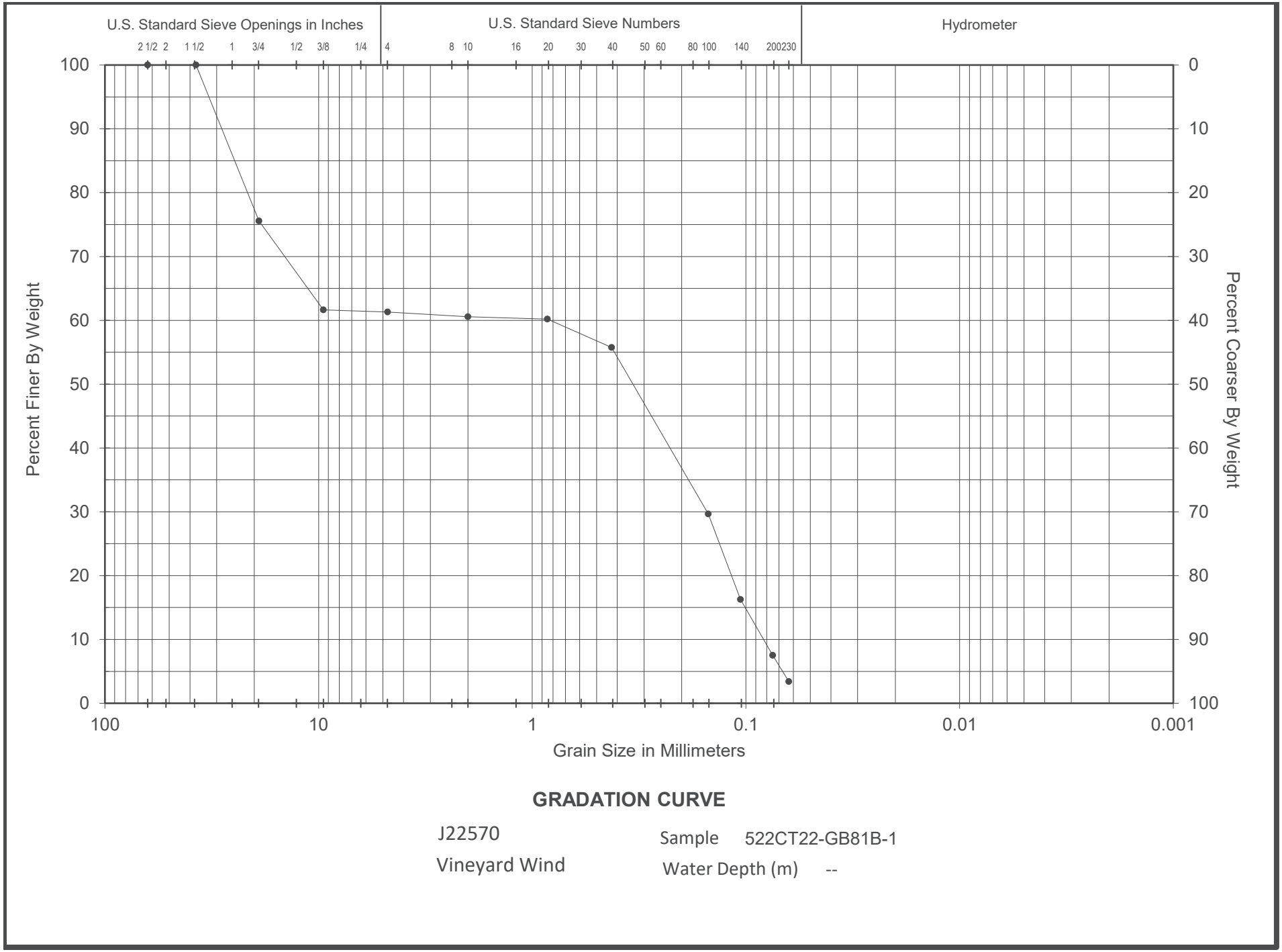
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	75.57	24.43	
9.5	3/8"	61.64	38.36	
4.75	4	61.29	38.71	
2	10	60.55	39.45	100.00
0.85	20	60.19	39.81	
0.425	40	55.74	44.26	
0.15	100	29.67	70.33	
0.106	140	16.25	83.75	
0.075	200	7.52	92.48	
0.063	230	3.41	96.59	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	60.55
% Passing #230	3.41
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	39.45
% Sand	0.0625 - 2.00 mm	57.14
% Silt and Clay	< 0.0625 mm	3.41
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.10
% Medium Sand	0.25 - 0.50 mm	4.45
% Fine Sand	0.0625 - 0.25 mm	52.33

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	16.25	0.106	7.52	0.075	0.083
D30	30	55.74	0.425	29.67	0.150	0.152
D50	50	55.74	0.425	29.67	0.150	0.338
D60	60	60.19	0.850	55.74	0.425	0.825

Uniformity Coefficient (Cu)	9.970
Coefficient of Curvature (Cc)	0.339



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB81B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB81C-1
Water Depth (m)	--

Grain Size Data

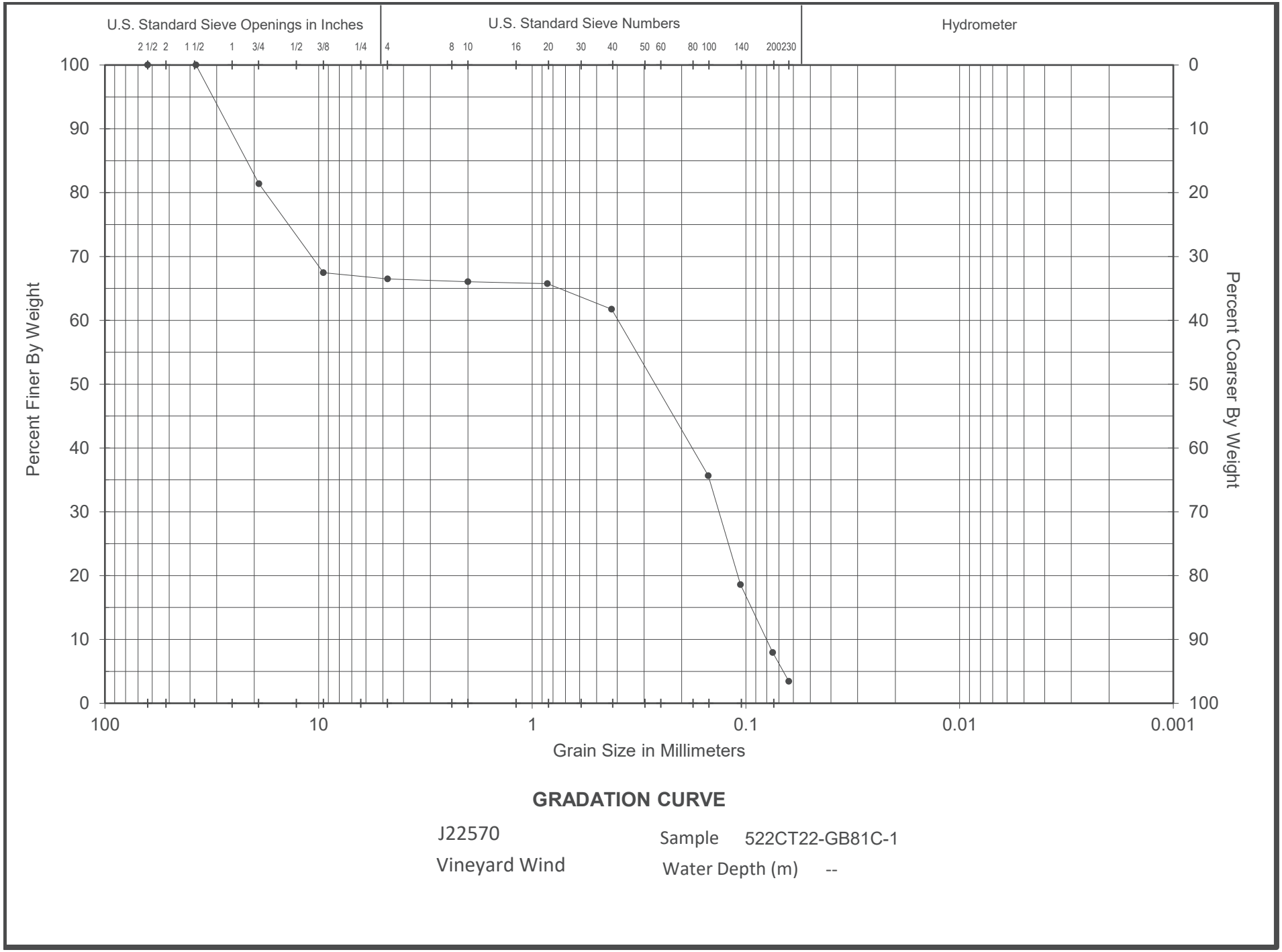
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	81.39	18.61	
9.5	3/8"	67.46	32.54	
4.75	4	66.48	33.52	
2	10	66.06	33.94	100.00
0.85	20	65.75	34.25	
0.425	40	61.73	38.27	
0.15	100	35.65	64.35	
0.106	140	18.58	81.42	
0.075	200	7.96	92.04	
0.063	230	3.45	96.55	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	66.06
% Passing #230	3.45
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	33.94
% Sand	0.0625 - 2.00 mm	62.61
% Silt and Clay	< 0.0625 mm	3.45
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.73
% Medium Sand	0.25 - 0.50 mm	4.02
% Fine Sand	0.0625 - 0.25 mm	58.29

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	18.58	0.106	7.96	0.075	0.080
D30	30	35.65	0.150	18.58	0.106	0.134
D50	50	61.73	0.425	35.65	0.150	0.266
D60	60	61.73	0.425	35.65	0.150	0.397

Uniformity Coefficient (Cu)	4.947
Coefficient of Curvature (Cc)	0.562



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB81C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB82-3A-1
Water Depth (m)	--

Grain Size Data

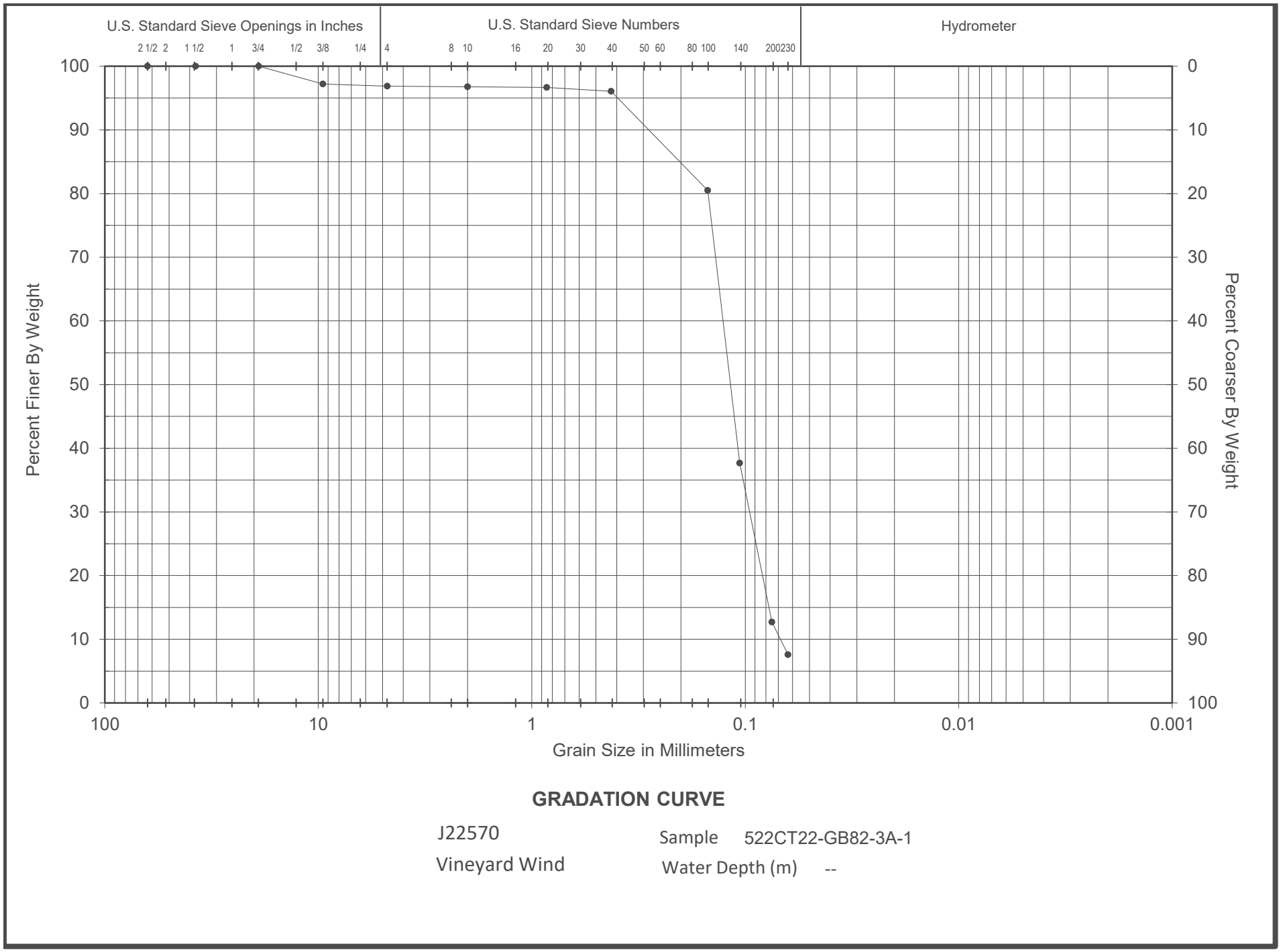
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	97.20	2.80	
4.75	4	96.87	3.13	
2	10	96.78	3.22	100.00
0.85	20	96.67	3.33	
0.425	40	96.05	3.95	
0.15	100	80.51	19.49	
0.106	140	37.66	62.34	
0.075	200	12.71	87.29	
0.063	230	7.59	92.41	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.78
% Passing #230	7.59
% Pass 2μ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	3.22
% Sand	0.0625 - 2.00 mm	89.19
% Silt and Clay	< 0.0625 mm	7.59
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.20
% Medium Sand	0.25 - 0.50 mm	0.62
% Fine Sand	0.0625 - 0.25 mm	88.46

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.71	0.075	7.59	0.063	0.068
D30	30	37.66	0.106	12.71	0.075	0.095
D50	50	80.51	0.150	37.66	0.106	0.117
D60	60	80.51	0.150	37.66	0.106	0.127

Uniformity Coefficient (Cu)	1.857
Coefficient of Curvature (Cc)	1.046



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB82-3A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB82-3B-1
Water Depth (m)	--

Grain Size Data

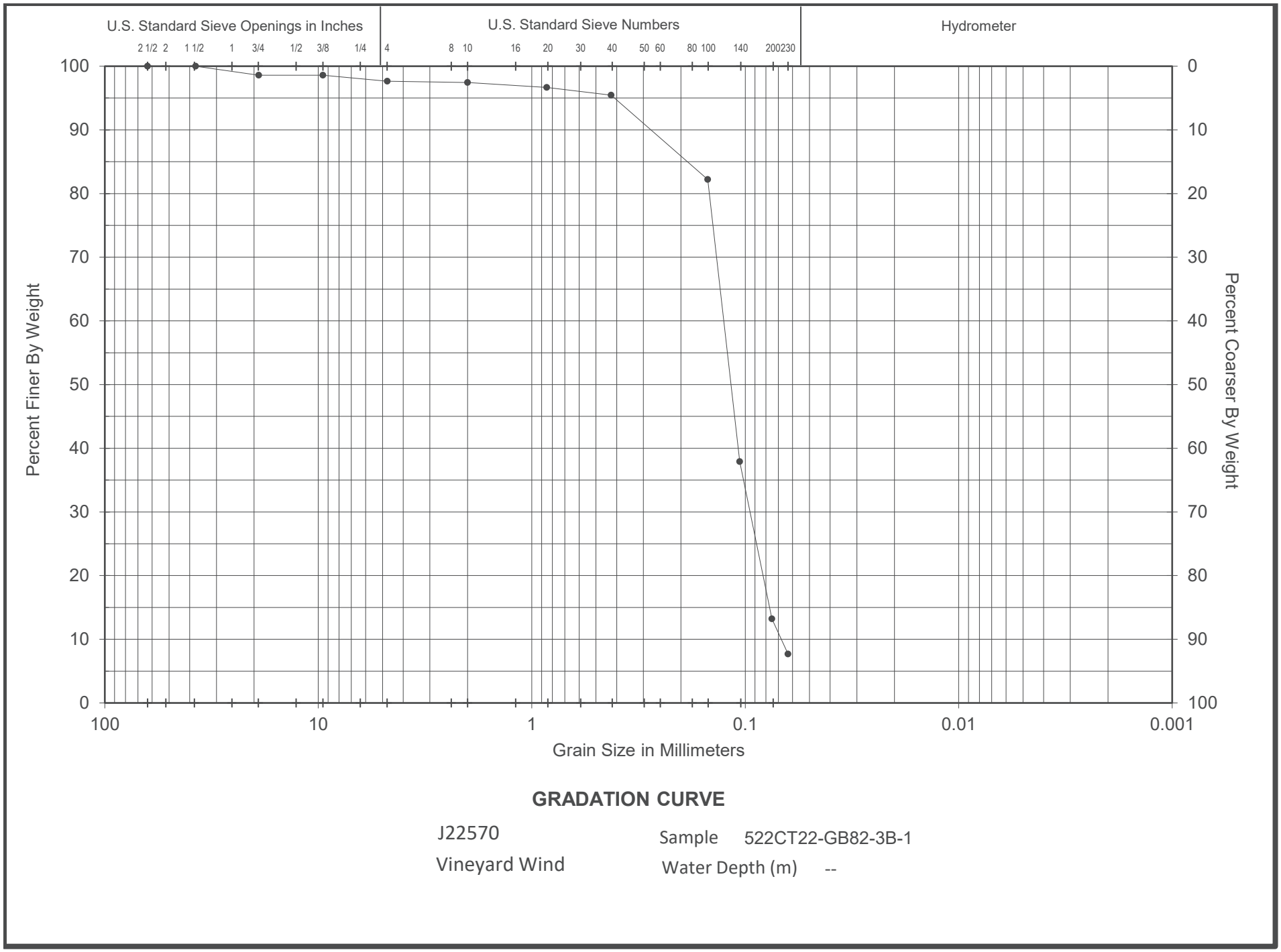
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.59	1.41	
9.5	3/8"	98.59	1.41	
4.75	4	97.65	2.35	
2	10	97.45	2.55	63.36
0.85	20	96.67	3.33	
0.425	40	95.44	4.56	
0.15	100	82.20	17.80	
0.106	140	37.89	62.11	
0.075	200	13.19	86.81	
0.063	230	7.68	92.32	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.45
% Passing #230	7.68
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.94
% Gravel-Sized Shell	> 2.00 mm	1.62
% Sand	0.0625 - 2.00 mm	89.76
% Silt and Clay	< 0.0625 mm	7.68
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.98
% Medium Sand	0.25 - 0.50 mm	1.23
% Fine Sand	0.0625 - 0.25 mm	87.76

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.19	0.075	7.68	0.063	0.068
D30	30	37.89	0.106	13.19	0.075	0.095
D50	50	82.20	0.150	37.89	0.106	0.117
D60	60	82.20	0.150	37.89	0.106	0.126

Uniformity Coefficient (Cu)	1.859
Coefficient of Curvature (Cc)	1.054



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB82-3B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB82-3C-1
Water Depth (m)	--

Grain Size Data

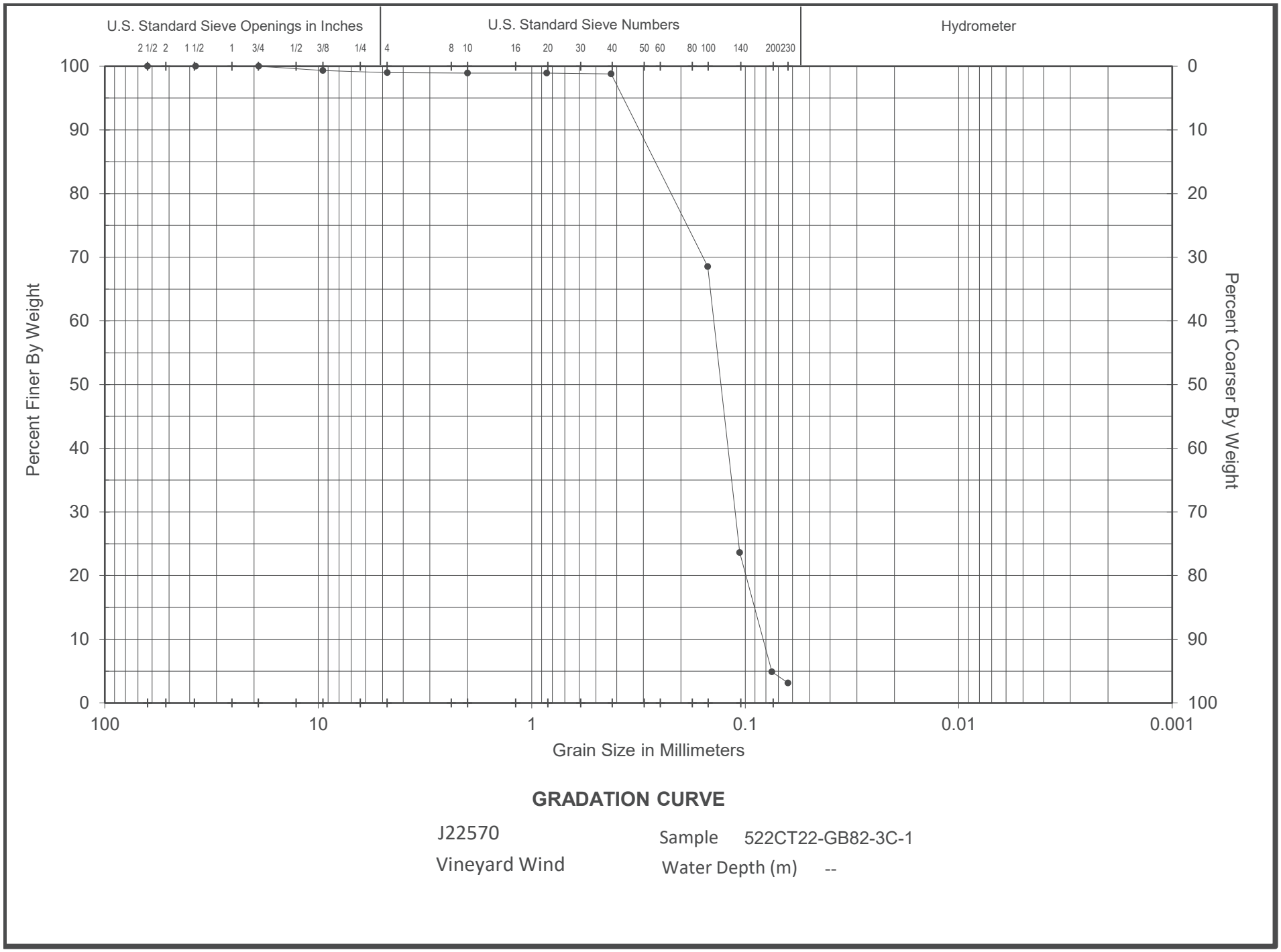
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.32	0.68	
4.75	4	98.97	1.03	
2	10	98.92	1.08	100.00
0.85	20	98.91	1.09	
0.425	40	98.80	1.20	
0.15	100	68.53	31.47	
0.106	140	23.61	76.39	
0.075	200	4.88	95.12	
0.063	230	3.14	96.86	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.92
% Passing #230	3.14
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	1.08
% Sand	0.0625 - 2.00 mm	95.78
% Silt and Clay	< 0.0625 mm	3.14
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.06
% Medium Sand	0.25 - 0.50 mm	0.11
% Fine Sand	0.0625 - 0.25 mm	95.66

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.61	0.106	4.88	0.075	0.082
D30	30	68.53	0.150	23.61	0.106	0.111
D50	50	68.53	0.150	23.61	0.106	0.130
D60	60	68.53	0.150	23.61	0.106	0.140

Uniformity Coefficient (Cu)	1.703
Coefficient of Curvature (Cc)	1.071



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB82-3C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB82-1
Water Depth (m)	--

Grain Size Data

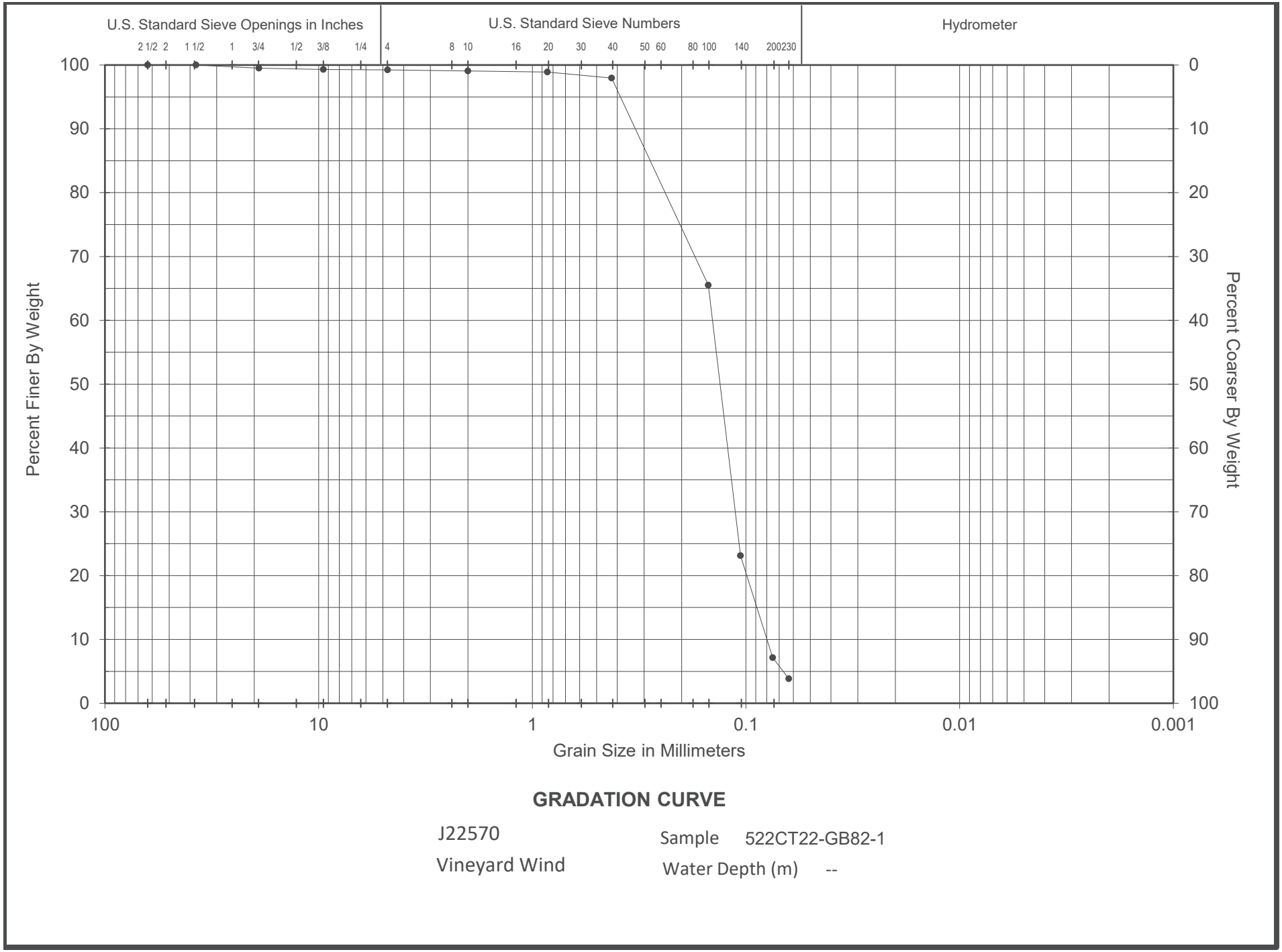
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	99.52	0.48	
9.5	3/8"	99.31	0.69	
4.75	4	99.23	0.77	
2	10	99.07	0.93	94.54
0.85	20	98.89	1.11	
0.425	40	97.96	2.04	
0.15	100	65.49	34.51	
0.106	140	23.13	76.87	
0.075	200	7.15	92.85	
0.063	230	3.84	96.16	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.07
% Passing #230	3.84
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.05
% Gravel-Sized Shell	> 2.00 mm	0.88
% Sand	0.0625 - 2.00 mm	95.23
% Silt and Clay	< 0.0625 mm	3.84
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.34
% Medium Sand	0.25 - 0.50 mm	0.93
% Fine Sand	0.0625 - 0.25 mm	94.12

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.13	0.106	7.15	0.075	0.080
D30	30	65.49	0.150	23.13	0.106	0.112
D50	50	65.49	0.150	23.13	0.106	0.132
D60	60	65.49	0.150	23.13	0.106	0.143

Uniformity Coefficient (Cu)	1.798
Coefficient of Curvature (Cc)	1.099



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB82-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB83A-1
Water Depth (m)	--

Grain Size Data

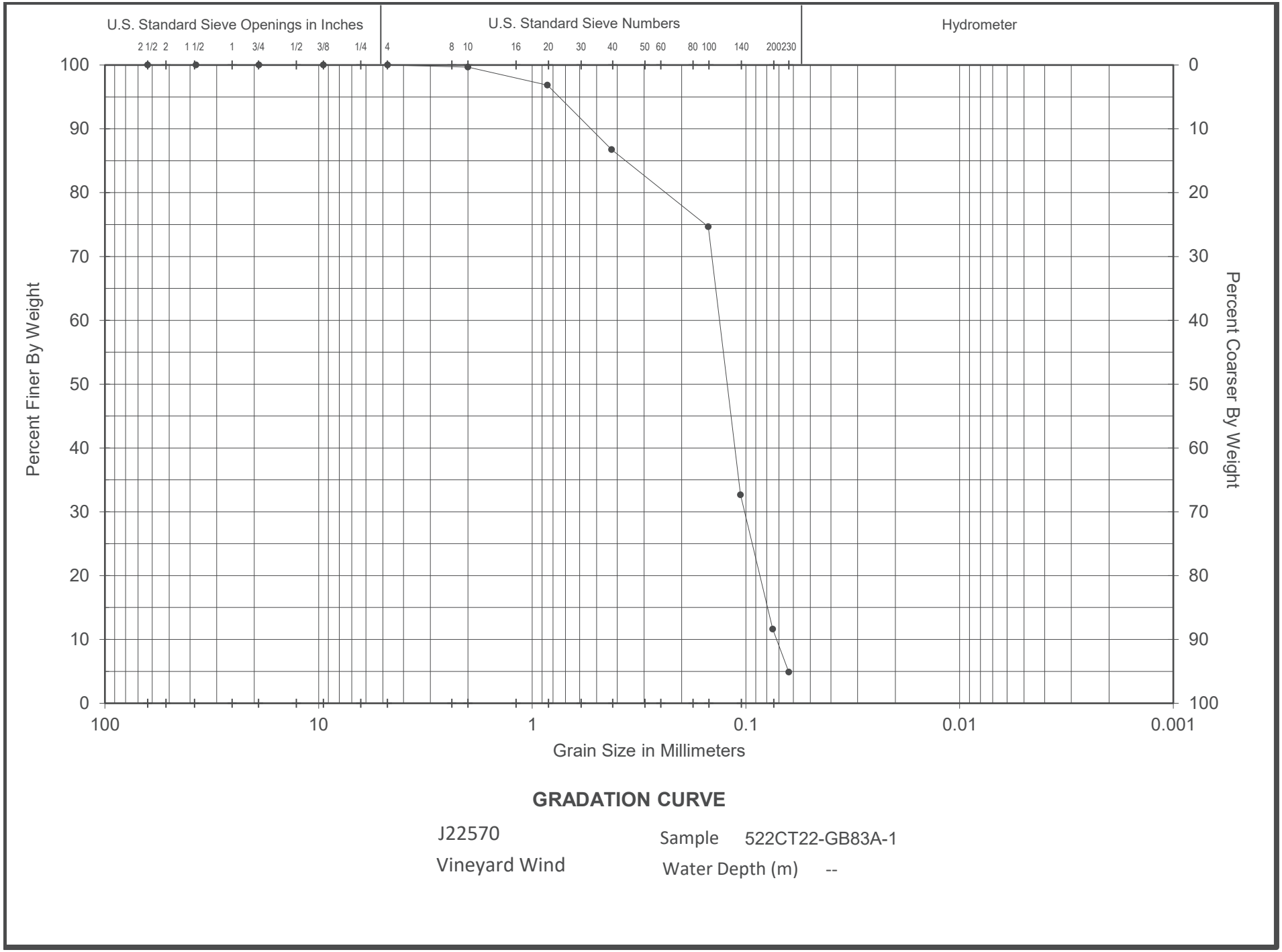
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.68	0.32	8.24
0.85	20	96.83	3.17	
0.425	40	86.73	13.27	
0.15	100	74.67	25.33	
0.106	140	32.64	67.36	
0.075	200	11.62	88.38	
0.063	230	4.87	95.13	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.68
% Passing #230	4.87
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.30
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	94.81
% Silt and Clay	< 0.0625 mm	4.87
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.17
% Medium Sand	0.25 - 0.50 mm	10.10
% Fine Sand	0.0625 - 0.25 mm	81.87

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.62	0.075	4.87	0.063	0.072
D30	30	32.64	0.106	11.62	0.075	0.101
D50	50	74.67	0.150	32.64	0.106	0.122
D60	60	74.67	0.150	32.64	0.106	0.133

Uniformity Coefficient (Cu)	1.847
Coefficient of Curvature (Cc)	1.078



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB83A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB83B-1
Water Depth (m)	--

Grain Size Data

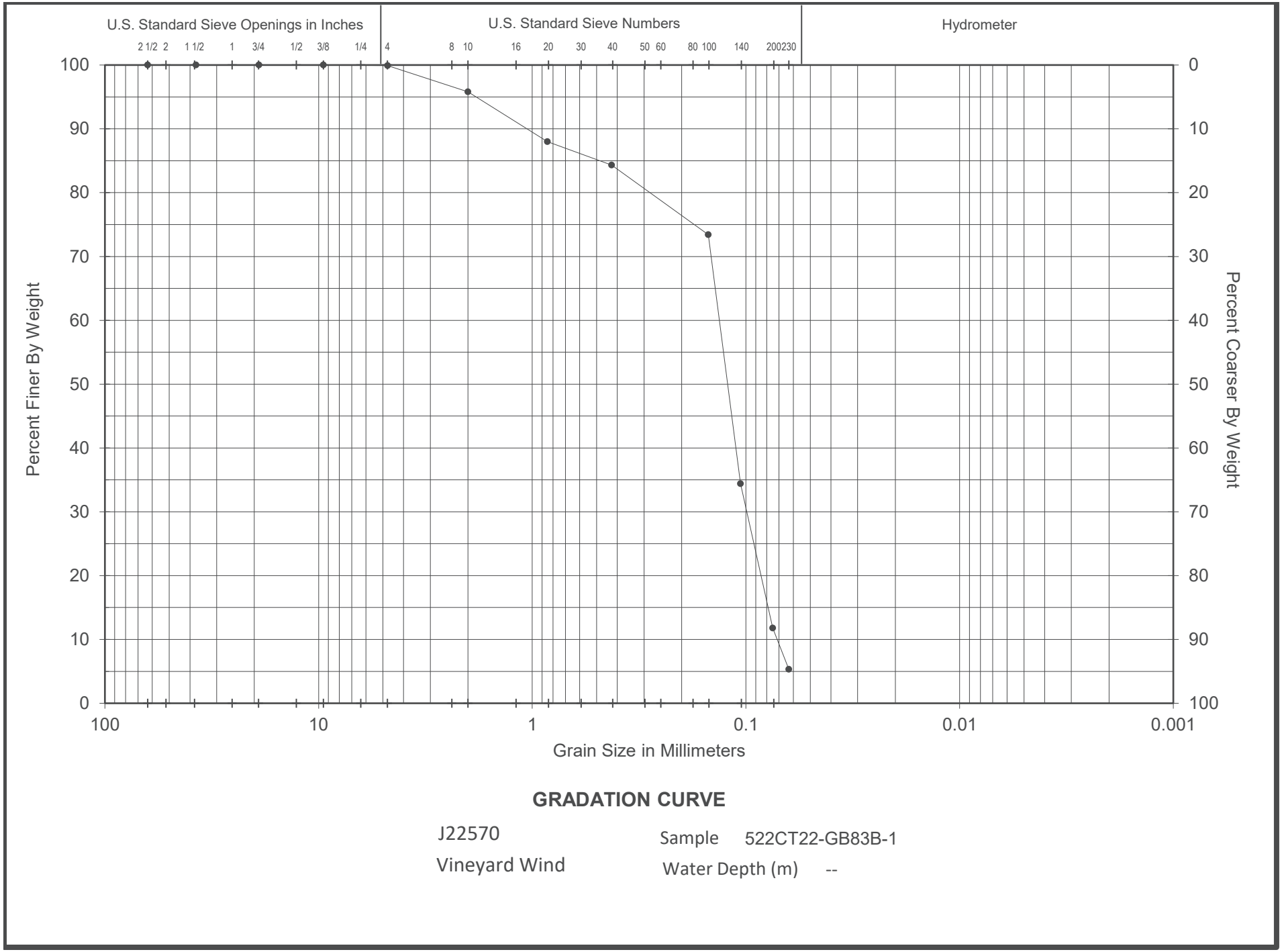
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.91	0.09	
2	10	95.79	4.21	0.00
0.85	20	88.00	12.00	
0.425	40	84.32	15.68	
0.15	100	73.43	26.57	
0.106	140	34.41	65.59	
0.075	200	11.78	88.22	
0.063	230	5.33	94.67	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.79
% Passing #230	5.33
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.21
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	90.46
% Silt and Clay	< 0.0625 mm	5.33
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	11.91
% Medium Sand	0.25 - 0.50 mm	3.68
% Fine Sand	0.0625 - 0.25 mm	78.99

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.78	0.075	5.33	0.063	0.071
D30	30	34.41	0.106	11.78	0.075	0.099
D50	50	73.43	0.150	34.41	0.106	0.122
D60	60	73.43	0.150	34.41	0.106	0.133

Uniformity Coefficient (Cu)	1.862
Coefficient of Curvature (Cc)	1.032



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB83B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB83C-1
Water Depth (m)	--

Grain Size Data

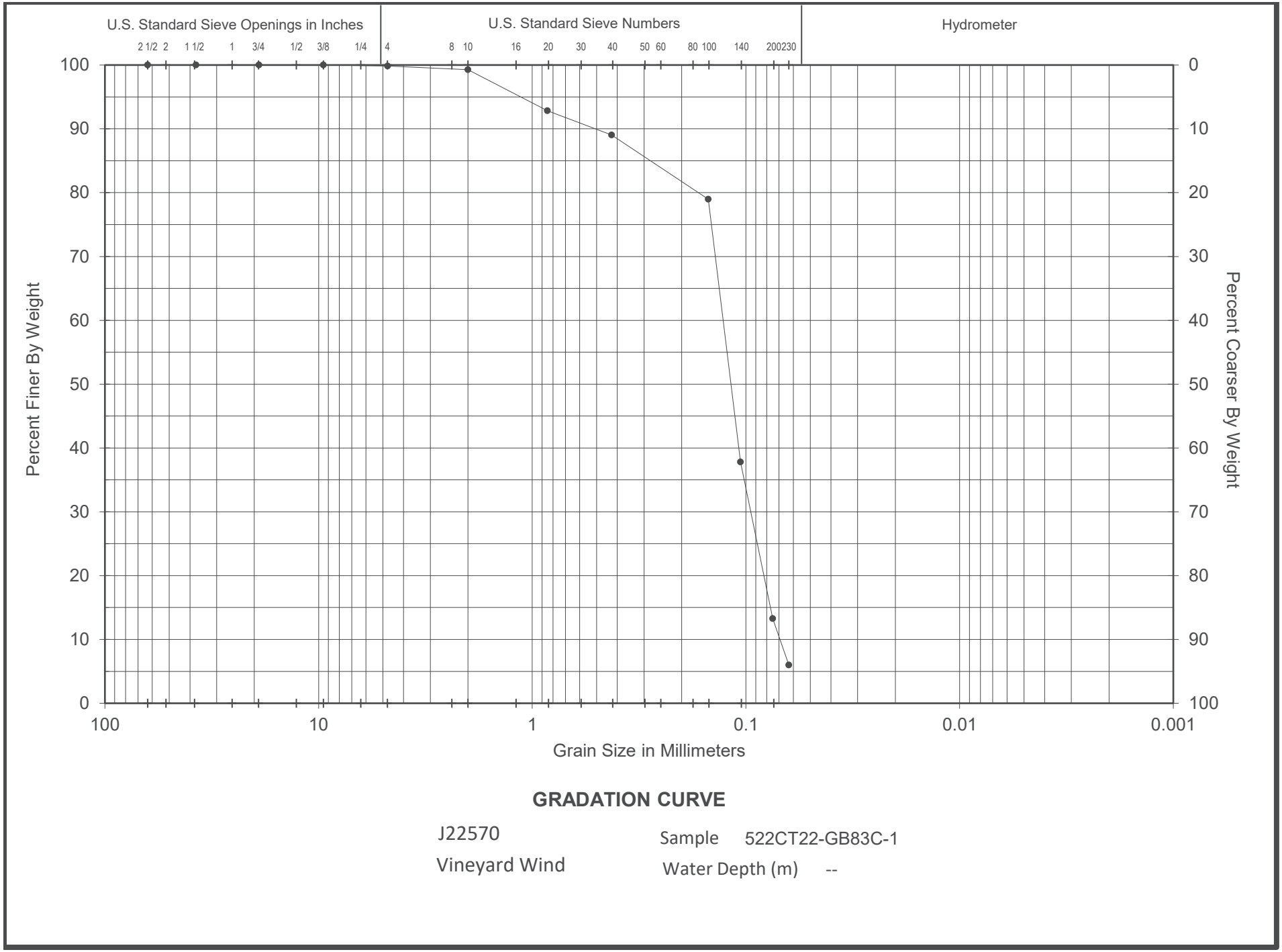
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.83	0.17	
2	10	99.26	0.74	0.00
0.85	20	92.83	7.17	
0.425	40	89.05	10.95	
0.15	100	78.97	21.03	
0.106	140	37.82	62.18	
0.075	200	13.27	86.73	
0.063	230	6.00	94.00	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.26
% Passing #230	6.00
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.74
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	93.26
% Silt and Clay	< 0.0625 mm	6.00
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.00
% Medium Sand	0.25 - 0.50 mm	3.78
% Fine Sand	0.0625 - 0.25 mm	83.05

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	13.27	0.075	6.00	0.063	0.069
D30	30	37.82	0.106	13.27	0.075	0.095
D50	50	78.97	0.150	37.82	0.106	0.117
D60	60	78.97	0.150	37.82	0.106	0.128

Uniformity Coefficient (Cu)	1.843
Coefficient of Curvature (Cc)	1.017



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB83C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB84-1
Water Depth (m)	--

Grain Size Data

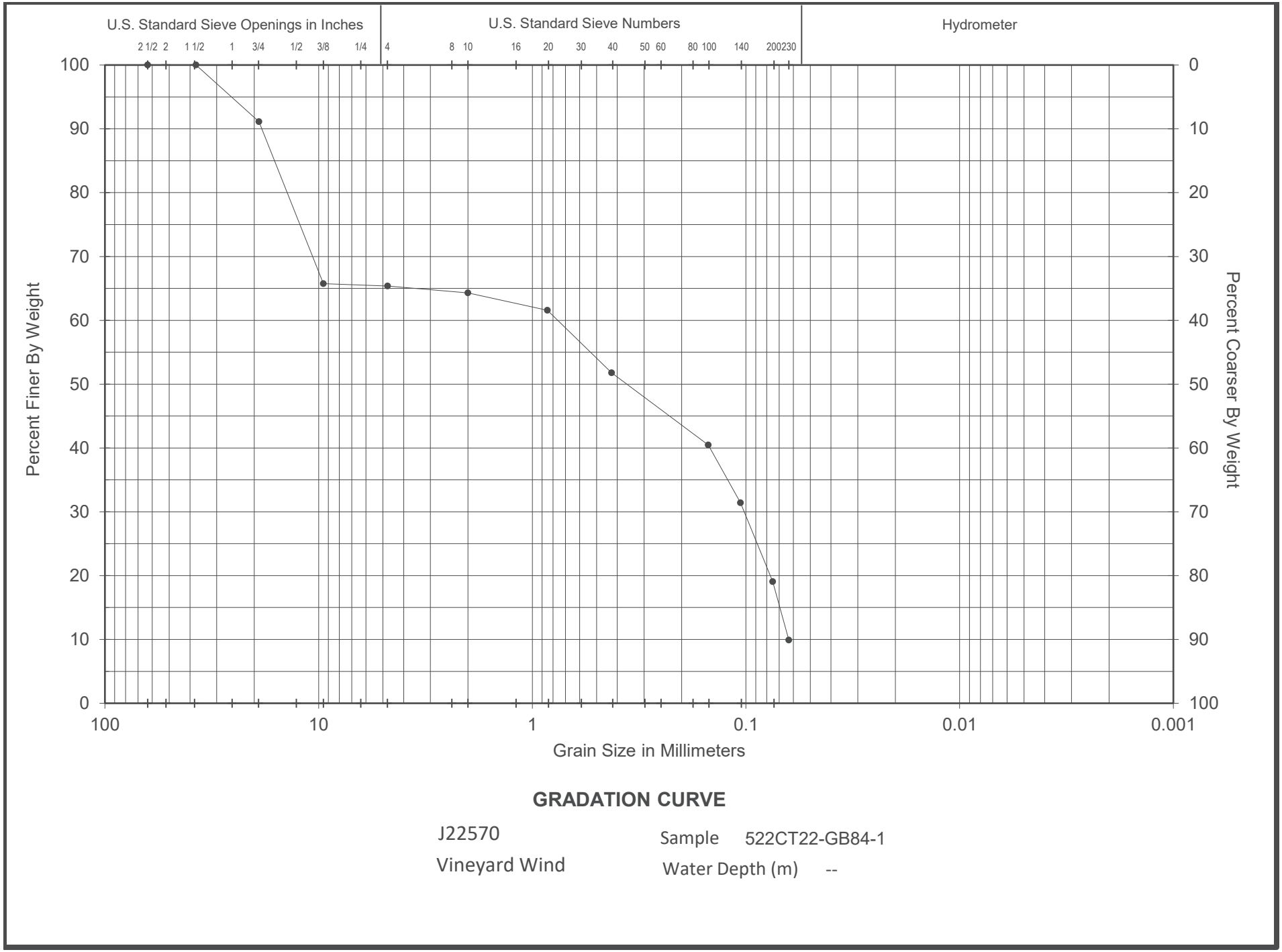
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	91.11	8.89	
9.5	3/8"	65.75	34.25	
4.75	4	65.36	34.64	
2	10	64.28	35.72	98.29
0.85	20	61.58	38.42	
0.425	40	51.76	48.24	
0.15	100	40.47	59.53	
0.106	140	31.39	68.61	
0.075	200	19.05	80.95	
0.063	230	9.89	90.11	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	64.28
% Passing #230	9.89
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.61
% Gravel-Sized Shell	> 2.00 mm	35.11
% Sand	0.0625 - 2.00 mm	54.39
% Silt and Clay	< 0.0625 mm	9.89
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.78
% Medium Sand	0.25 - 0.50 mm	9.82
% Fine Sand	0.0625 - 0.25 mm	41.87

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.05	0.075	9.89	0.063	0.063
D30	30	31.39	0.106	19.05	0.075	0.102
D50	50	51.76	0.425	40.47	0.150	0.361
D60	60	61.58	0.850	51.76	0.425	0.760

Uniformity Coefficient (Cu)	12.042
Coefficient of Curvature (Cc)	0.217



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB84-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB85A-1
Water Depth (m)	--

Grain Size Data

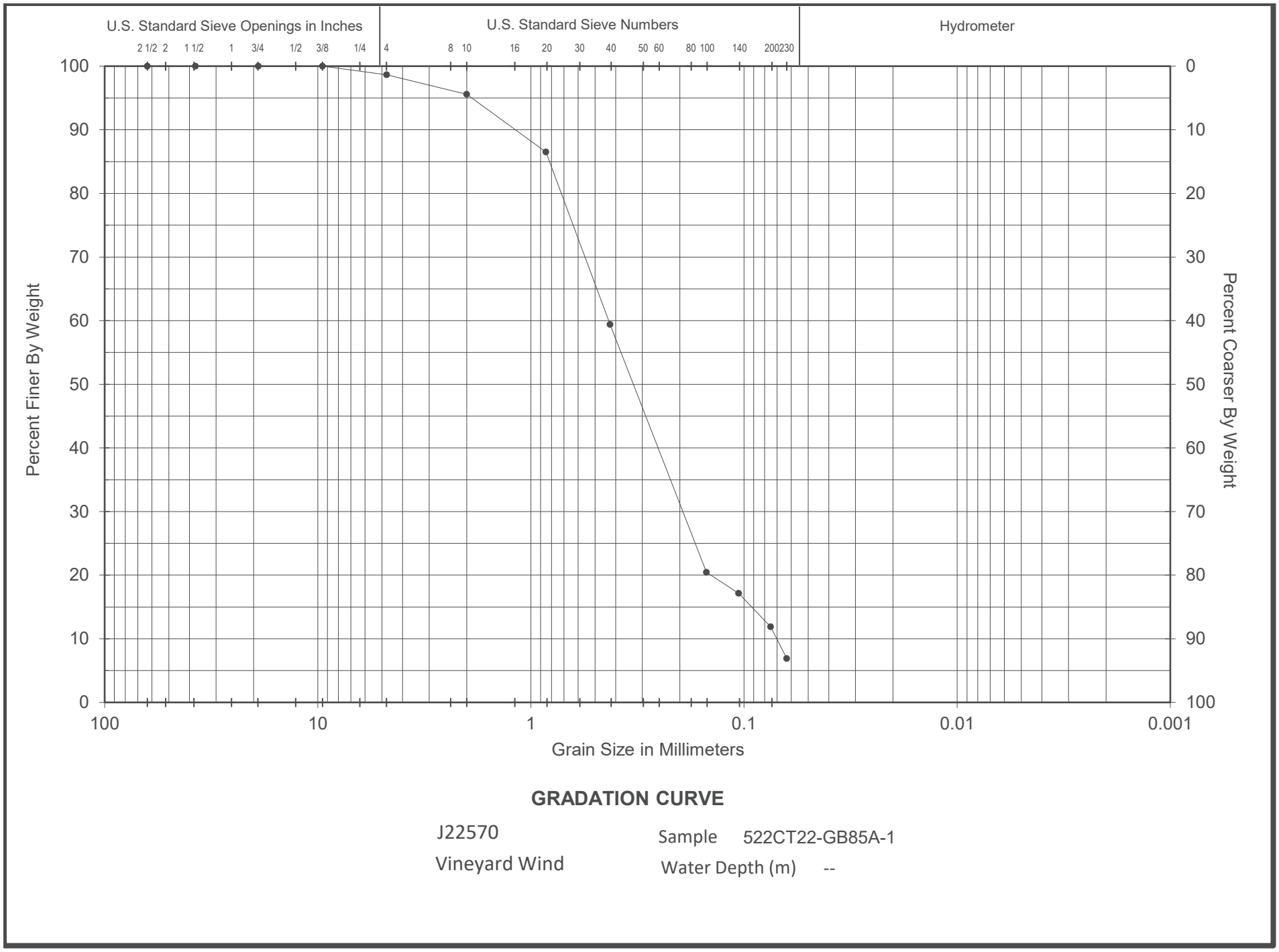
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.64	1.36	
2	10	95.57	4.43	0.00
0.85	20	86.49	13.51	
0.425	40	59.38	40.62	
0.15	100	20.45	79.55	
0.106	140	17.14	82.86	
0.075	200	11.88	88.12	
0.063	230	6.89	93.11	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.57
% Passing #230	6.89
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.43
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	88.67
% Silt and Clay	< 0.0625 mm	6.89
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	12.15
% Medium Sand	0.25 - 0.50 mm	27.11
% Fine Sand	0.0625 - 0.25 mm	52.49

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.88	0.075	6.89	0.063	0.070
D30	30	59.38	0.425	20.45	0.150	0.194
D50	50	59.38	0.425	20.45	0.150	0.331
D60	60	86.49	0.850	59.38	0.425	0.432

Uniformity Coefficient (Cu)	6.148
Coefficient of Curvature (Cc)	1.237



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB85A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB85B-1
Water Depth (m)	--

Grain Size Data

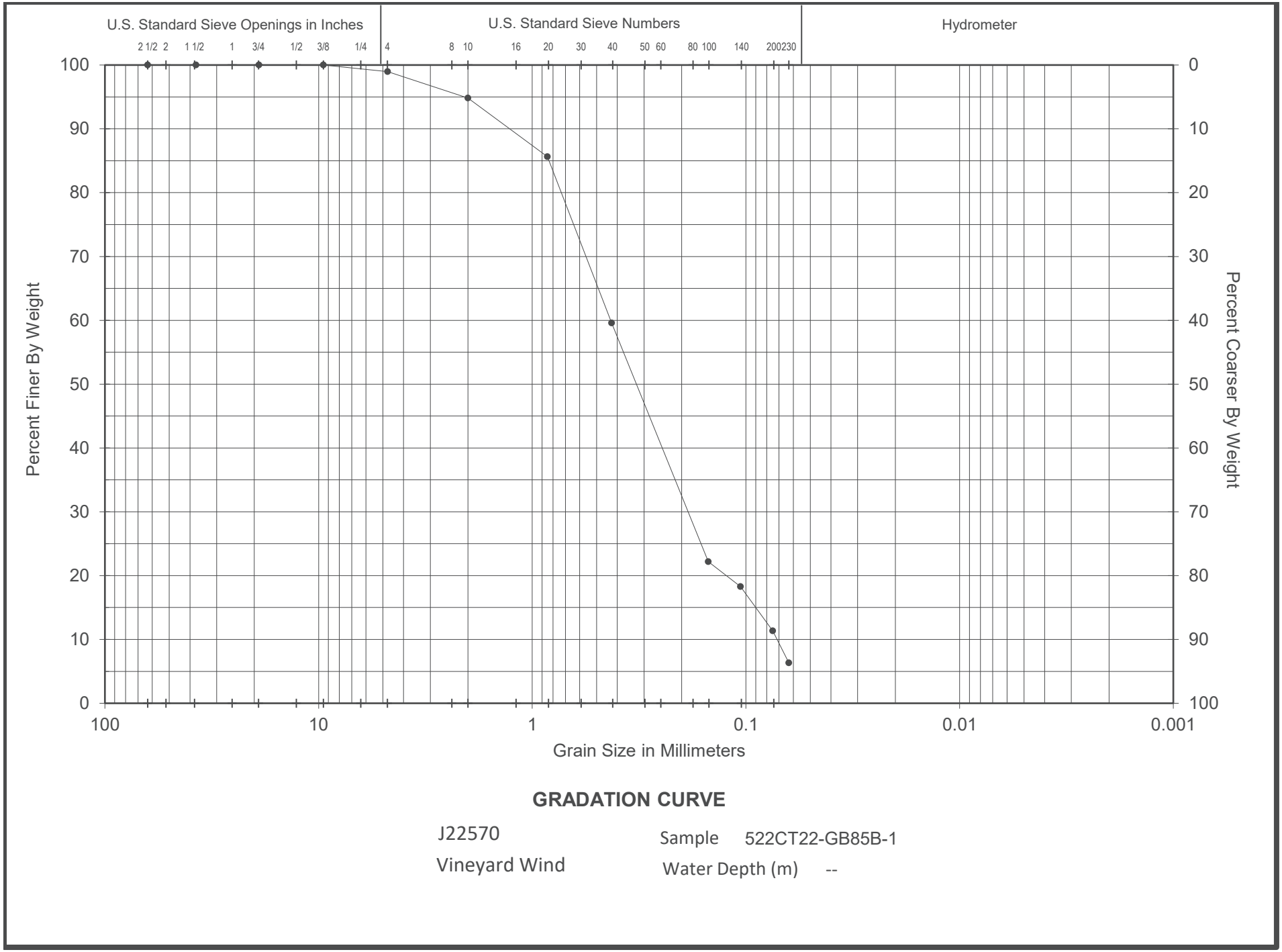
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.97	1.03	
2	10	94.84	5.16	0.00
0.85	20	85.64	14.36	
0.425	40	59.60	40.40	
0.15	100	22.18	77.82	
0.106	140	18.27	81.73	
0.075	200	11.36	88.64	
0.063	230	6.34	93.66	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.84
% Passing #230	6.34
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.16
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	88.50
% Silt and Clay	< 0.0625 mm	6.34
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	13.33
% Medium Sand	0.25 - 0.50 mm	26.05
% Fine Sand	0.0625 - 0.25 mm	53.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	11.36	0.075	6.34	0.063	0.072
D30	30	59.60	0.425	22.18	0.150	0.186
D50	50	59.60	0.425	22.18	0.150	0.325
D60	60	85.64	0.850	59.60	0.425	0.430

Uniformity Coefficient (Cu)	6.005
Coefficient of Curvature (Cc)	1.132



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB85B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB85C-1
Water Depth (m)	--

Grain Size Data

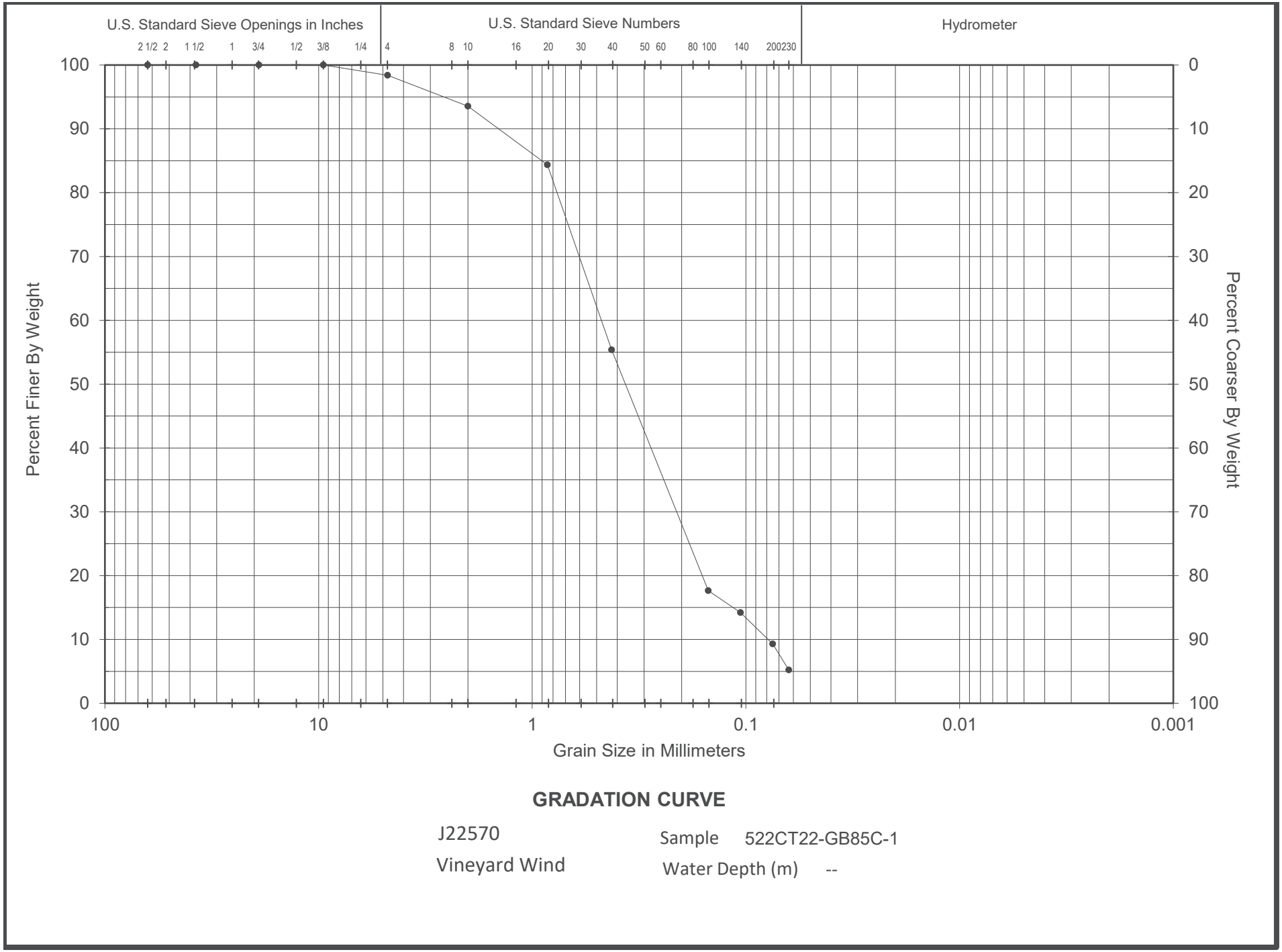
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.39	1.61	
2	10	93.56	6.44	0.00
0.85	20	84.35	15.65	
0.425	40	55.38	44.62	
0.15	100	17.64	82.36	
0.106	140	14.20	85.80	
0.075	200	9.31	90.69	
0.063	230	5.22	94.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.56
% Passing #230	5.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	6.44
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	88.34
% Silt and Clay	< 0.0625 mm	5.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.04
% Medium Sand	0.25 - 0.50 mm	28.96
% Fine Sand	0.0625 - 0.25 mm	50.16

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	14.20	0.106	9.31	0.075	0.079
D30	30	55.38	0.425	17.64	0.150	0.211
D50	50	55.38	0.425	17.64	0.150	0.366
D60	60	84.35	0.850	55.38	0.425	0.475

Uniformity Coefficient (Cu)	6.026
Coefficient of Curvature (Cc)	1.190



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB85C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB86A-2
Water Depth (m)	--

Grain Size Data

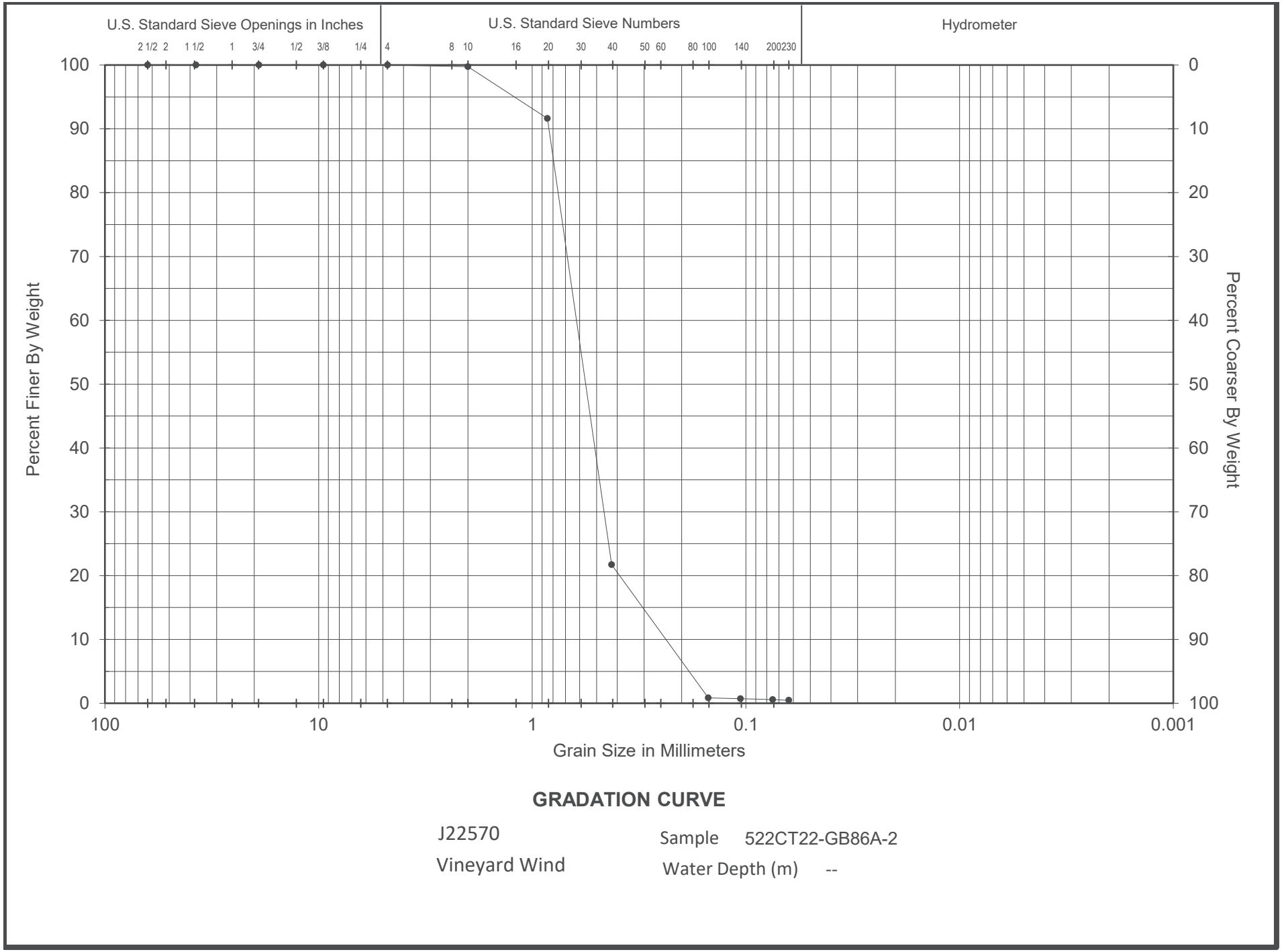
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.74	0.26	100.00
0.85	20	91.64	8.36	
0.425	40	21.70	78.30	
0.15	100	0.85	99.15	
0.106	140	0.71	99.29	
0.075	200	0.58	99.42	
0.063	230	0.47	99.53	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.74
% Passing #230	0.47
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.26
% Sand	0.0625 - 2.00 mm	99.27
% Silt and Clay	< 0.0625 mm	0.47
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	8.36
% Medium Sand	0.25 - 0.50 mm	69.94
% Fine Sand	0.0625 - 0.25 mm	21.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	21.70	0.425	0.85	0.150	0.237
D30	30	91.64	0.850	21.70	0.425	0.461
D50	50	91.64	0.850	21.70	0.425	0.563
D60	60	91.64	0.850	21.70	0.425	0.621

Uniformity Coefficient (Cu)	2.622
Coefficient of Curvature (Cc)	1.447



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB86A-2

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB86B-1
Water Depth (m)	--

Grain Size Data

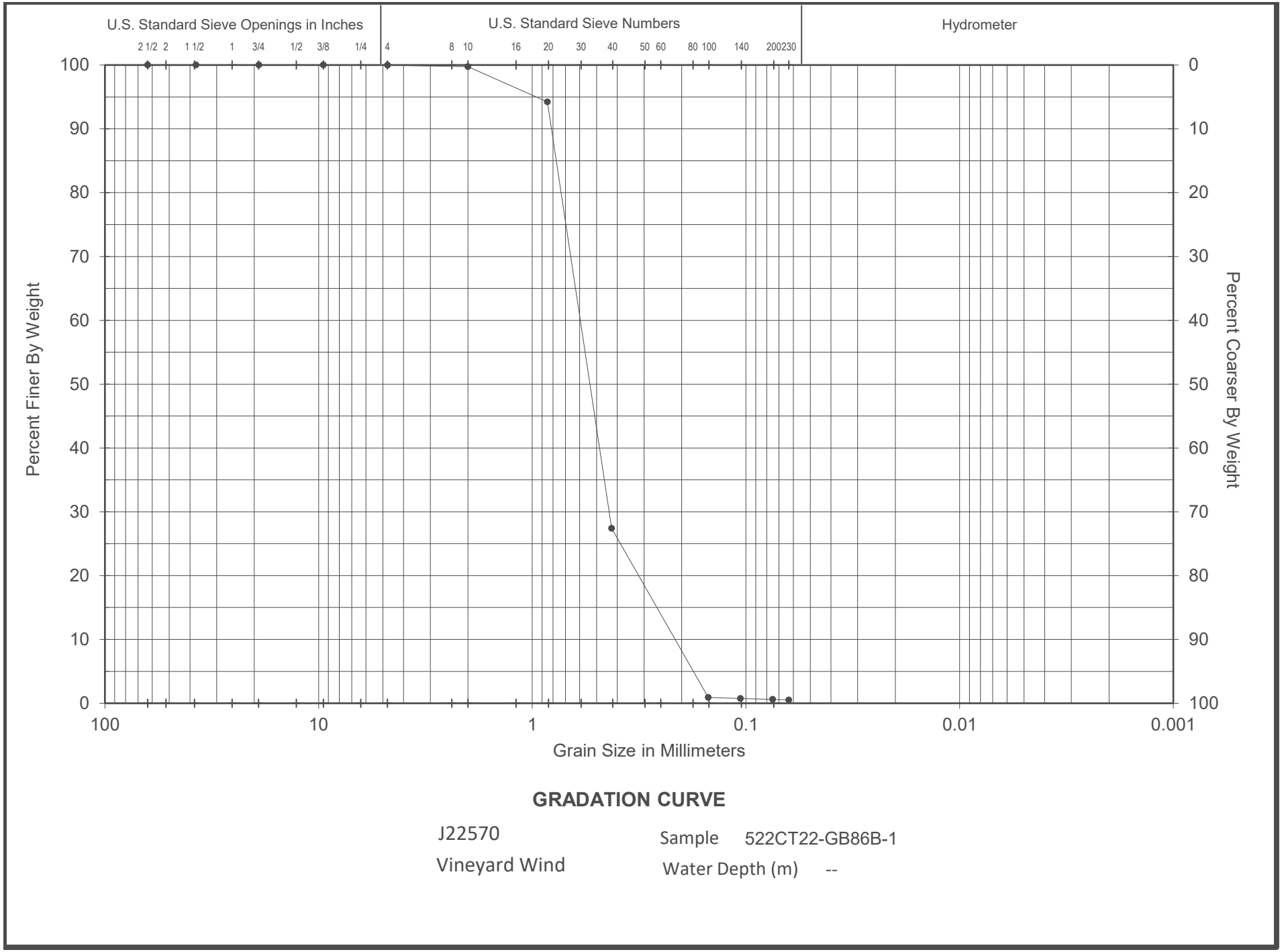
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.98	0.02	
2	10	99.74	0.26	54.23
0.85	20	94.21	5.79	
0.425	40	27.40	72.60	
0.15	100	0.90	99.10	
0.106	140	0.75	99.25	
0.075	200	0.62	99.38	
0.063	230	0.52	99.48	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.74
% Passing #230	0.52
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.12
% Gravel-Sized Shell	> 2.00 mm	0.14
% Sand	0.0625 - 2.00 mm	99.22
% Silt and Clay	< 0.0625 mm	0.52
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.77
% Medium Sand	0.25 - 0.50 mm	66.82
% Fine Sand	0.0625 - 0.25 mm	26.88

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	27.40	0.425	0.90	0.150	0.215
D30	30	94.21	0.850	27.40	0.425	0.437
D50	50	94.21	0.850	27.40	0.425	0.537
D60	60	94.21	0.850	27.40	0.425	0.596

Uniformity Coefficient (Cu)	2.779
Coefficient of Curvature (Cc)	1.491



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB86B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB86C-1
Water Depth (m)	--

Grain Size Data

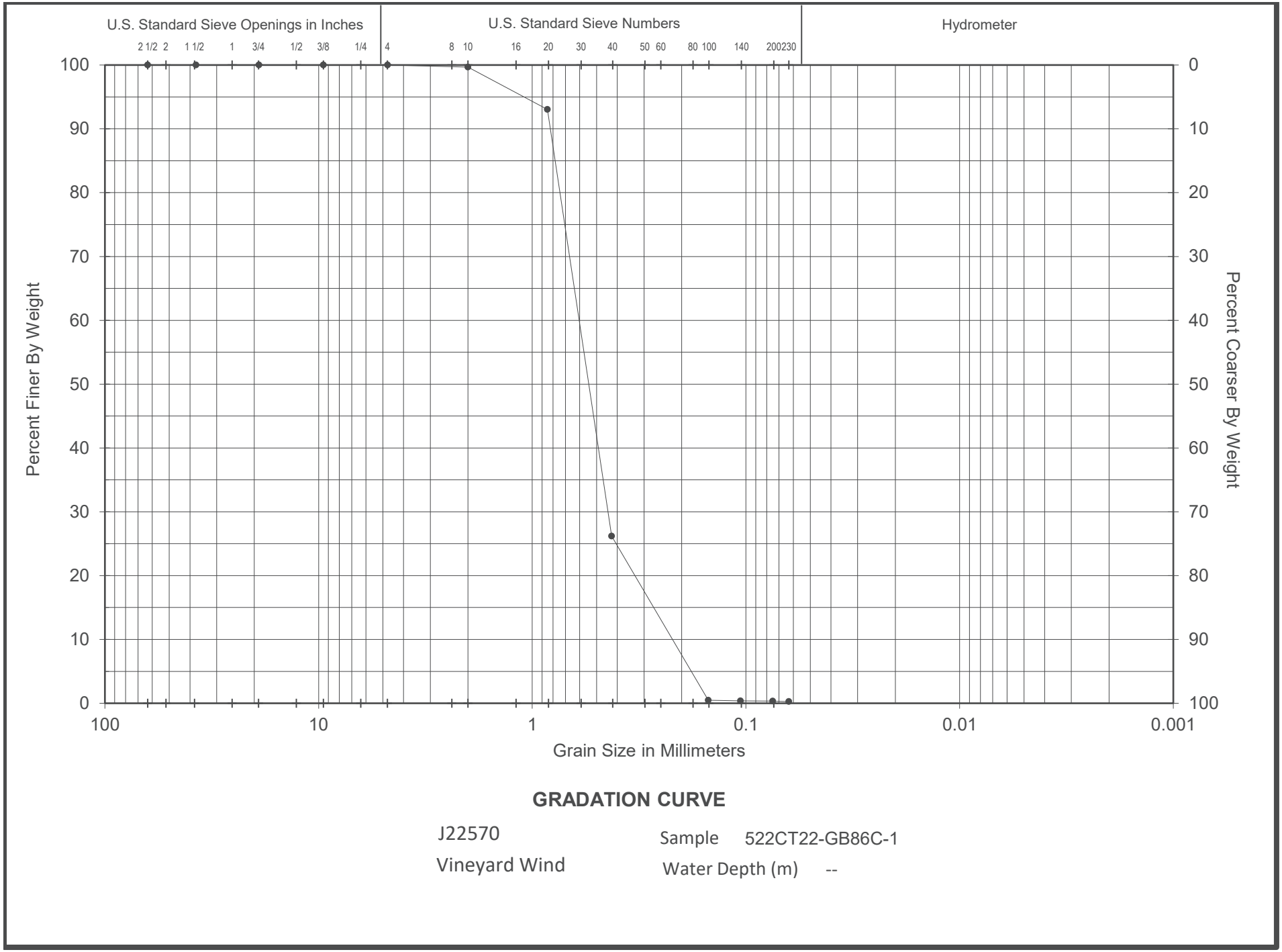
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.67	0.33	100.00
0.85	20	93.03	6.97	
0.425	40	26.20	73.80	
0.15	100	0.46	99.54	
0.106	140	0.39	99.61	
0.075	200	0.33	99.67	
0.063	230	0.27	99.73	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.67
% Passing #230	0.27
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.33
% Sand	0.0625 - 2.00 mm	99.40
% Silt and Clay	< 0.0625 mm	0.27
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.97
% Medium Sand	0.25 - 0.50 mm	66.83
% Fine Sand	0.0625 - 0.25 mm	25.93

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	26.20	0.425	0.46	0.150	0.221
D30	30	93.03	0.850	26.20	0.425	0.442
D50	50	93.03	0.850	26.20	0.425	0.544
D60	60	93.03	0.850	26.20	0.425	0.603

Uniformity Coefficient (Cu)	2.735
Coefficient of Curvature (Cc)	1.468



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB86C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB87A-1
Water Depth (m)	--

Grain Size Data

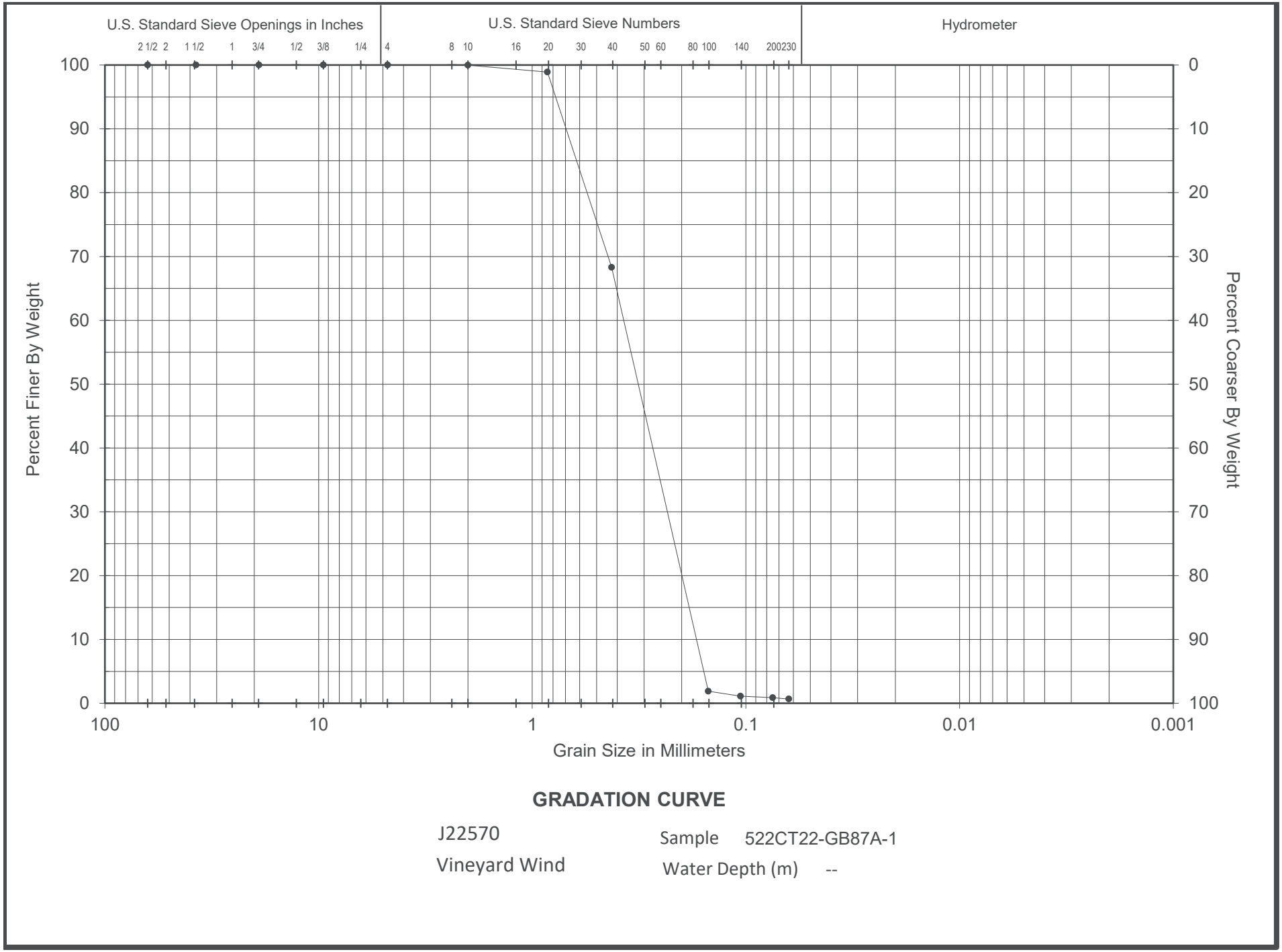
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	100.00
0.85	20	98.91	1.09	
0.425	40	68.31	31.69	
0.15	100	1.89	98.11	
0.106	140	1.13	98.87	
0.075	200	0.87	99.13	
0.063	230	0.66	99.34	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.66
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.30
% Silt and Clay	< 0.0625 mm	0.66
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.09
% Medium Sand	0.25 - 0.50 mm	30.60
% Fine Sand	0.0625 - 0.25 mm	67.65

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	68.31	0.425	1.89	0.150	0.170
D30	30	68.31	0.425	1.89	0.150	0.233
D50	50	68.31	0.425	1.89	0.150	0.319
D60	60	68.31	0.425	1.89	0.150	0.373

Uniformity Coefficient (Cu)	2.190
Coefficient of Curvature (Cc)	0.855



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB87A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB87B-1
Water Depth (m)	--

Grain Size Data

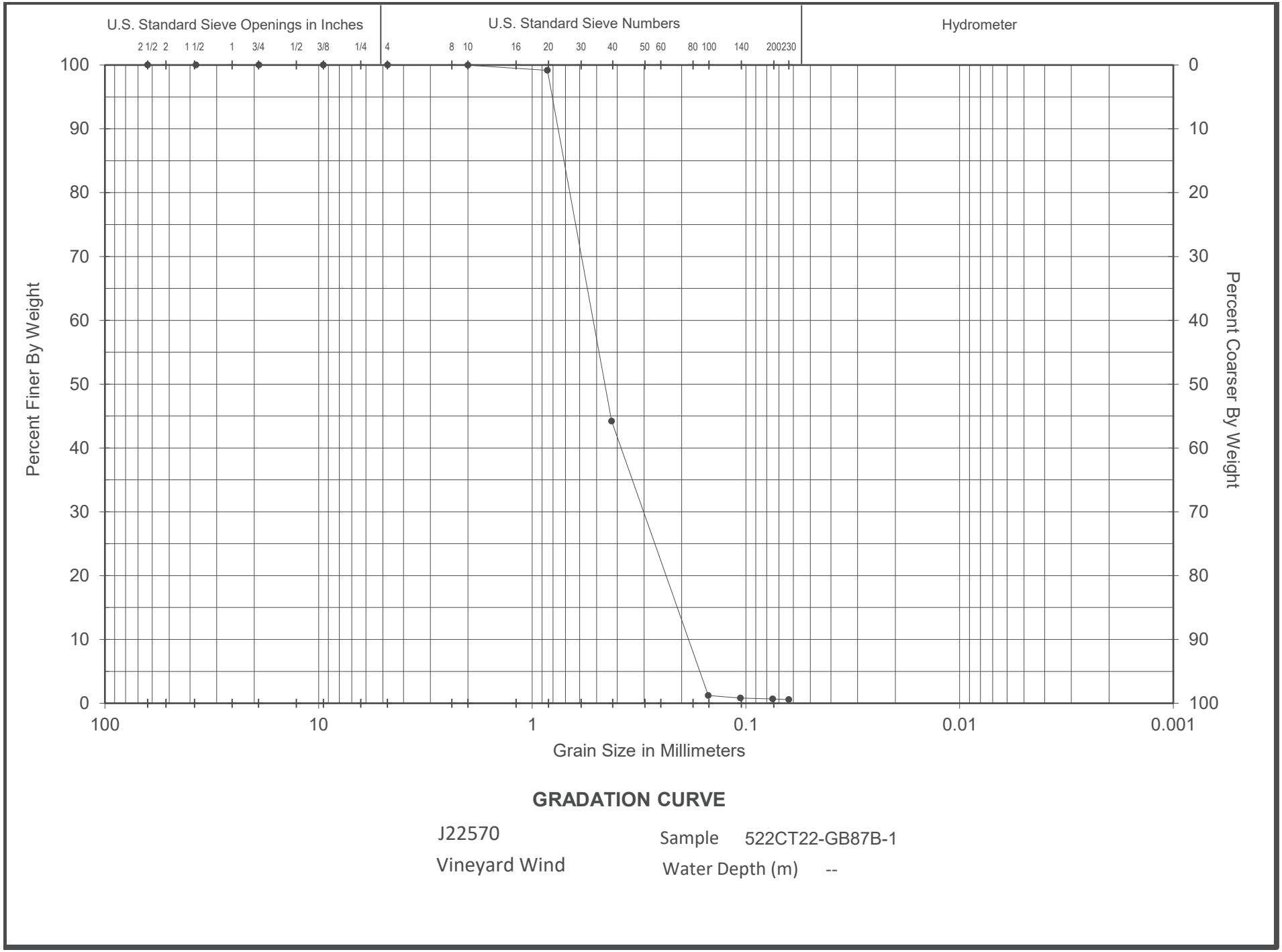
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	100.00
0.85	20	99.17	0.83	
0.425	40	44.19	55.81	
0.15	100	1.22	98.78	
0.106	140	0.80	99.20	
0.075	200	0.67	99.33	
0.063	230	0.57	99.43	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	0.57
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	99.40
% Silt and Clay	< 0.0625 mm	0.57
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.83
% Medium Sand	0.25 - 0.50 mm	54.98
% Fine Sand	0.0625 - 0.25 mm	43.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	44.19	0.425	1.22	0.150	0.186
D30	30	44.19	0.425	1.22	0.150	0.301
D50	50	99.17	0.850	44.19	0.425	0.457
D60	60	99.17	0.850	44.19	0.425	0.519

Uniformity Coefficient (Cu)	2.796
Coefficient of Curvature (Cc)	0.943



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB87B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB87C-1
Water Depth (m)	--

Grain Size Data

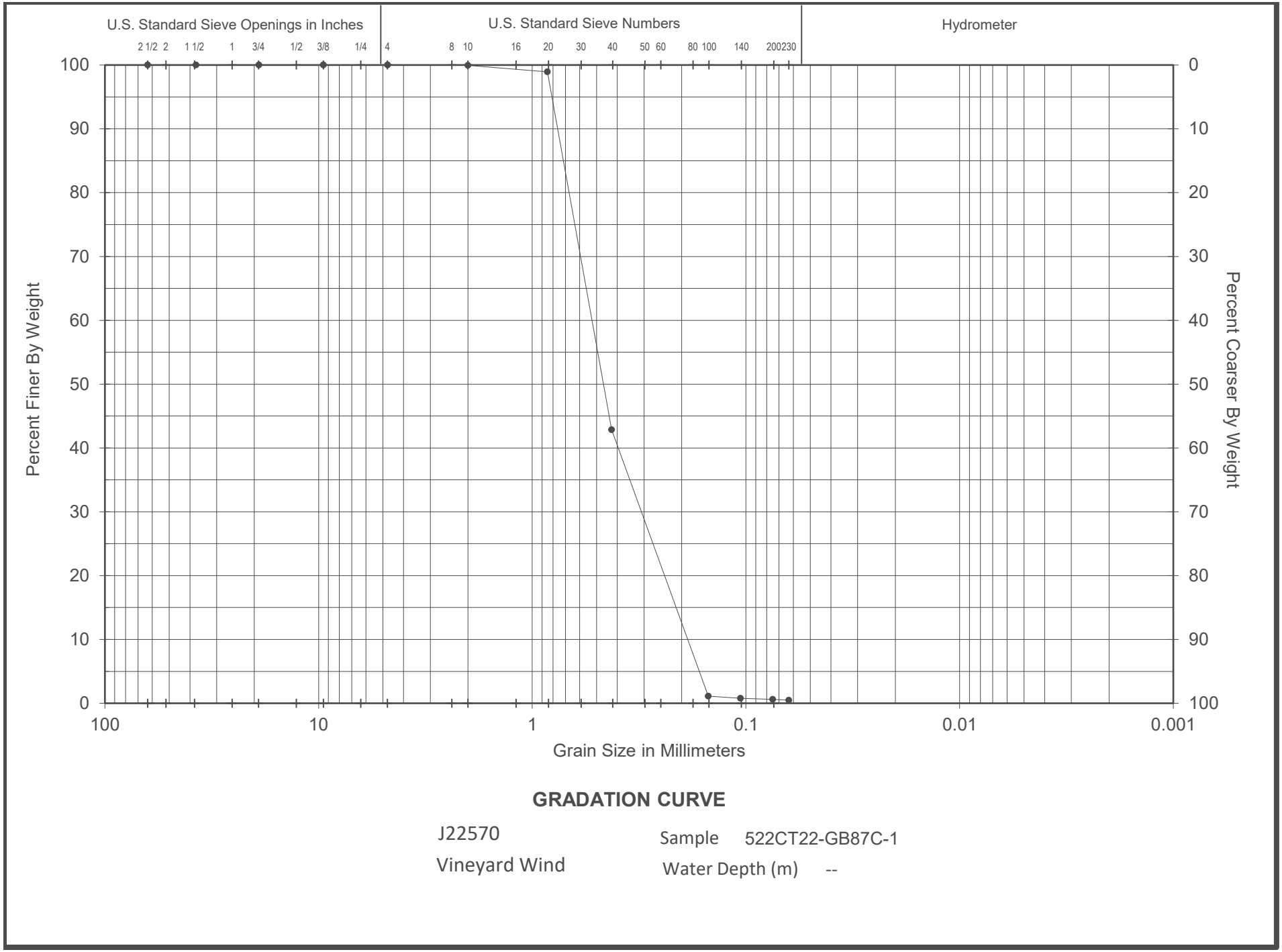
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.94	0.06	100.00
0.85	20	98.95	1.05	
0.425	40	42.87	57.13	
0.15	100	1.12	98.88	
0.106	140	0.79	99.21	
0.075	200	0.60	99.40	
0.063	230	0.49	99.51	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	0.49
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.06
% Sand	0.0625 - 2.00 mm	99.46
% Silt and Clay	< 0.0625 mm	0.49
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.05
% Medium Sand	0.25 - 0.50 mm	56.08
% Fine Sand	0.0625 - 0.25 mm	42.38

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	42.87	0.425	1.12	0.150	0.187
D30	30	42.87	0.425	1.12	0.150	0.308
D50	50	98.95	0.850	42.87	0.425	0.464
D60	60	98.95	0.850	42.87	0.425	0.525

Uniformity Coefficient (Cu)	2.806
Coefficient of Curvature (Cc)	0.967



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB87C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB88A-1
Water Depth (m)	--

Grain Size Data

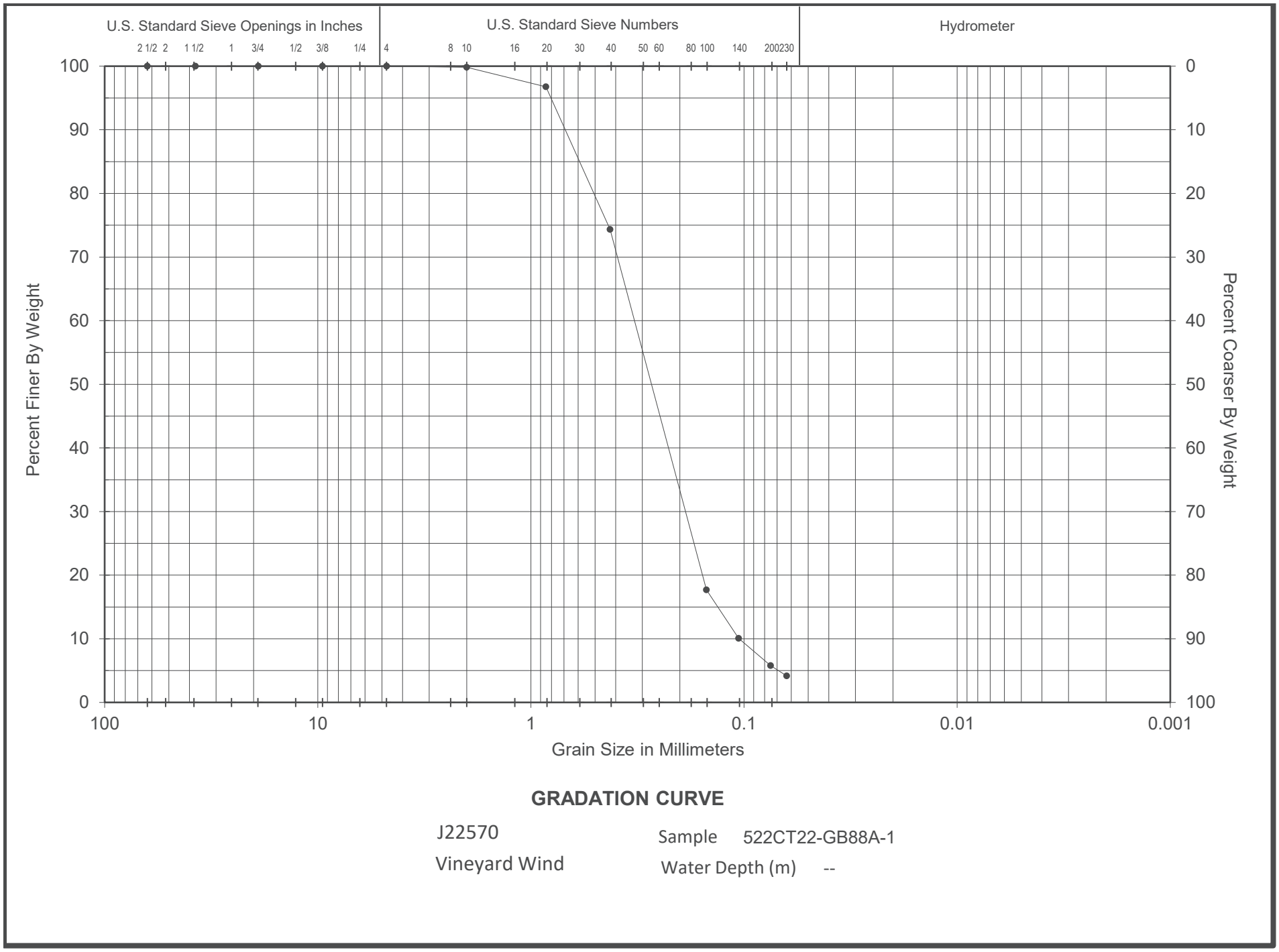
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.83	0.17	0.00
0.85	20	96.76	3.24	
0.425	40	74.34	25.66	
0.15	100	17.69	82.31	
0.106	140	10.06	89.94	
0.075	200	5.79	94.21	
0.063	230	4.16	95.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.83
% Passing #230	4.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.17
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	95.67
% Silt and Clay	< 0.0625 mm	4.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.24
% Medium Sand	0.25 - 0.50 mm	22.42
% Fine Sand	0.0625 - 0.25 mm	70.18

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	10.06	0.106	5.79	0.075	0.106
D30	30	74.34	0.425	17.69	0.150	0.188
D50	50	74.34	0.425	17.69	0.150	0.272
D60	60	74.34	0.425	17.69	0.150	0.327

Uniformity Coefficient (Cu)	3.095
Coefficient of Curvature (Cc)	1.027



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB88A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB88B-1
Water Depth (m)	--

Grain Size Data

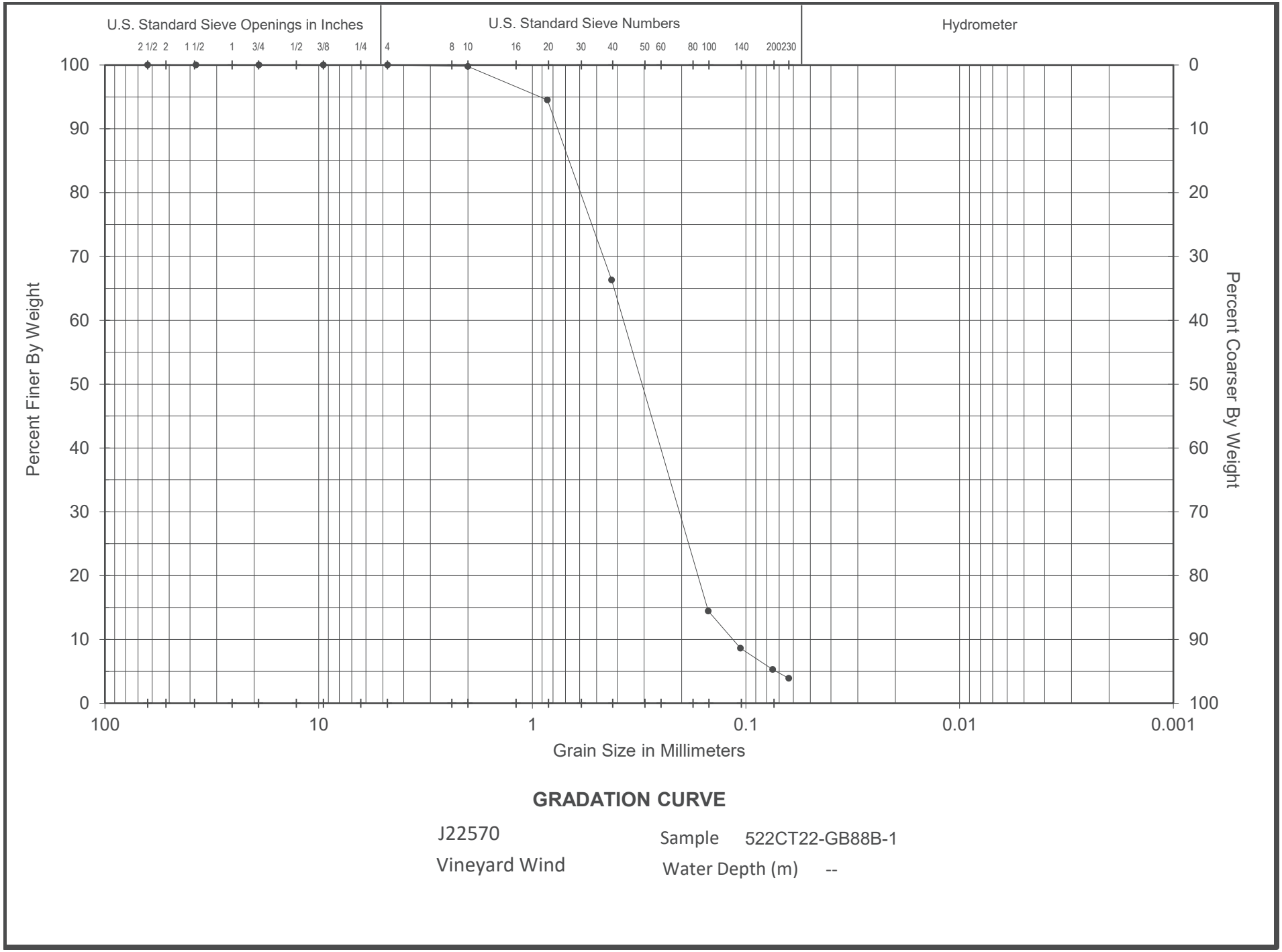
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.77	0.23	40.00
0.85	20	94.54	5.46	
0.425	40	66.32	33.68	
0.15	100	14.44	85.56	
0.106	140	8.60	91.40	
0.075	200	5.27	94.73	
0.063	230	3.91	96.09	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.77
% Passing #230	3.91
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.14
% Gravel-Sized Shell	> 2.00 mm	0.09
% Sand	0.0625 - 2.00 mm	95.86
% Silt and Clay	< 0.0625 mm	3.91
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	5.46
% Medium Sand	0.25 - 0.50 mm	28.22
% Fine Sand	0.0625 - 0.25 mm	62.40

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.44	0.150	8.60	0.106	0.115
D30	30	66.32	0.425	14.44	0.150	0.205
D50	50	66.32	0.425	14.44	0.150	0.306
D60	60	66.32	0.425	14.44	0.150	0.374

Uniformity Coefficient (Cu)	3.251
Coefficient of Curvature (Cc)	0.975



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB88B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB88C-1
Water Depth (m)	--

Grain Size Data

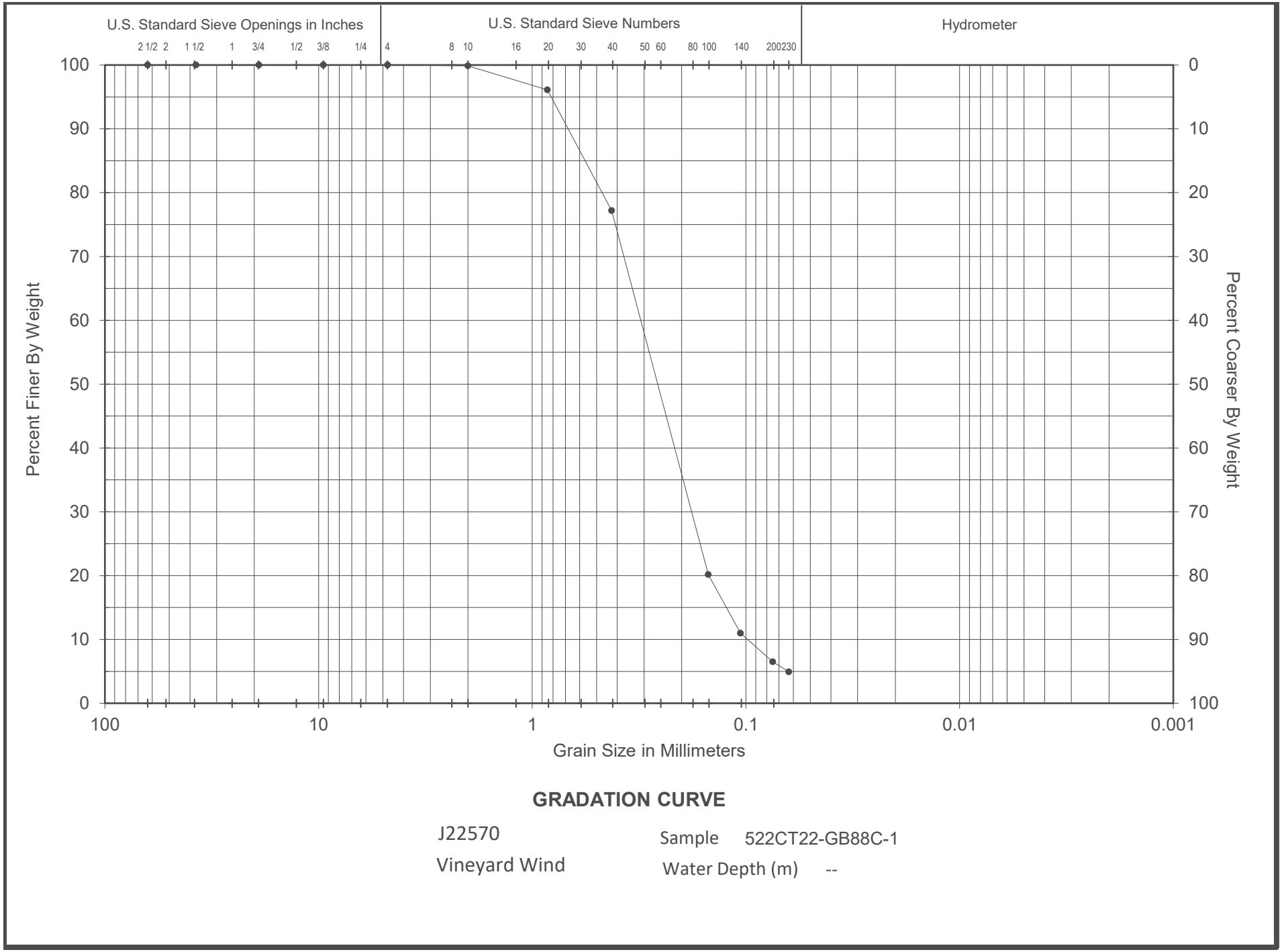
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.88	0.12	0.00
0.85	20	96.11	3.89	
0.425	40	77.20	22.80	
0.15	100	20.18	79.82	
0.106	140	10.97	89.03	
0.075	200	6.50	93.50	
0.063	230	4.93	95.07	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.88
% Passing #230	4.93
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.12
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	94.95
% Silt and Clay	< 0.0625 mm	4.93
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.89
% Medium Sand	0.25 - 0.50 mm	18.92
% Fine Sand	0.0625 - 0.25 mm	72.27

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	10.97	0.106	6.50	0.075	0.098
D30	30	77.20	0.425	20.18	0.150	0.179
D50	50	77.20	0.425	20.18	0.150	0.259
D60	60	77.20	0.425	20.18	0.150	0.310

Uniformity Coefficient (Cu)	3.156
Coefficient of Curvature (Cc)	1.055



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB88C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB89A-1
Water Depth (m)	--

Grain Size Data

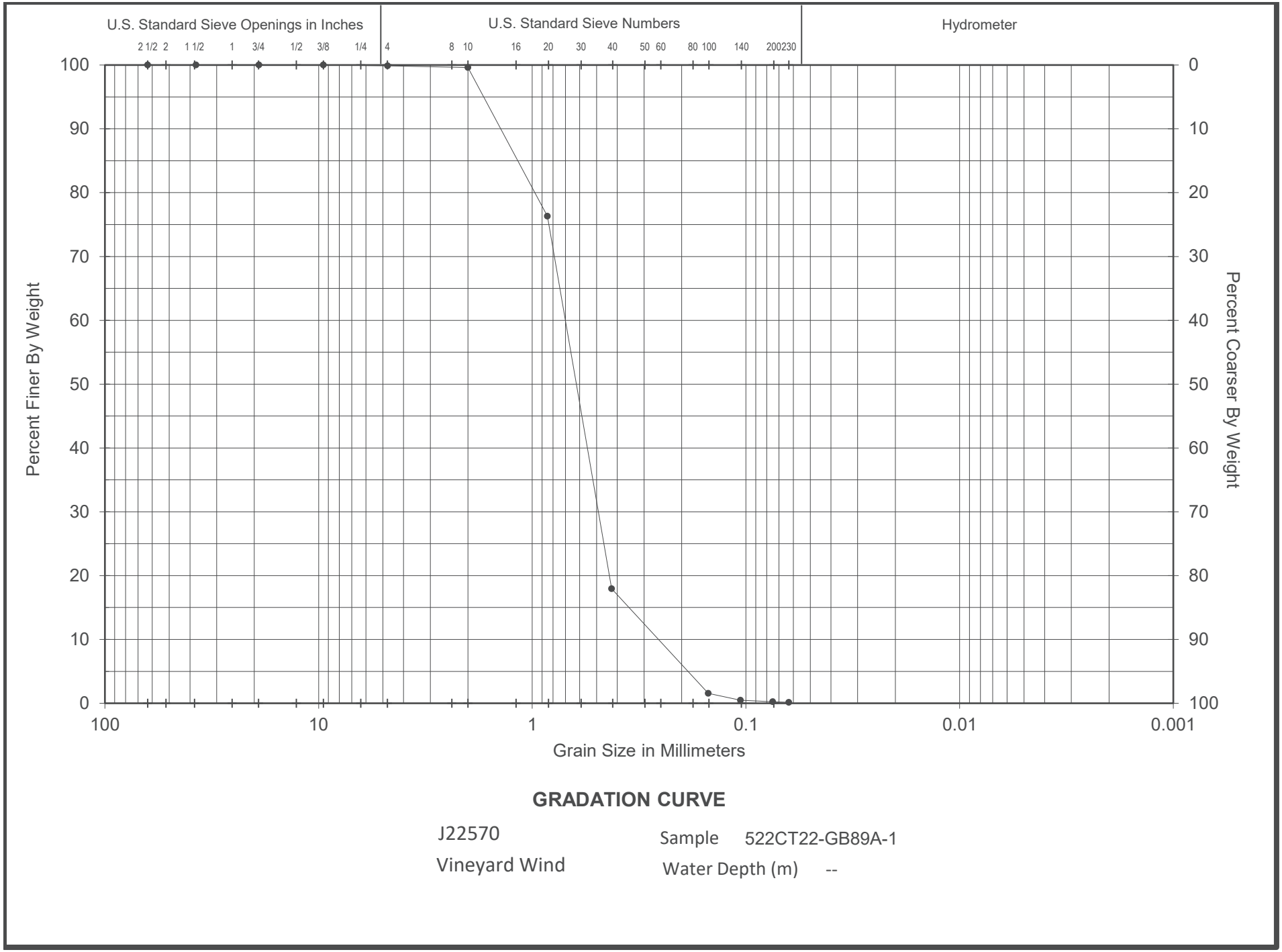
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.86	0.14	
2	10	99.61	0.39	41.98
0.85	20	76.32	23.68	
0.425	40	17.94	82.06	
0.15	100	1.54	98.46	
0.106	140	0.49	99.51	
0.075	200	0.22	99.78	
0.063	230	0.15	99.85	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.61
% Passing #230	0.15
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.23
% Gravel-Sized Shell	> 2.00 mm	0.16
% Sand	0.0625 - 2.00 mm	99.46
% Silt and Clay	< 0.0625 mm	0.15
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	23.54
% Medium Sand	0.25 - 0.50 mm	58.38
% Fine Sand	0.0625 - 0.25 mm	17.79

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.94	0.425	1.54	0.150	0.257
D30	30	76.32	0.850	17.94	0.425	0.490
D50	50	76.32	0.850	17.94	0.425	0.622
D60	60	76.32	0.850	17.94	0.425	0.700

Uniformity Coefficient (Cu)	2.728
Coefficient of Curvature (Cc)	1.338



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB89A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB89B-1
Water Depth (m)	--

Grain Size Data

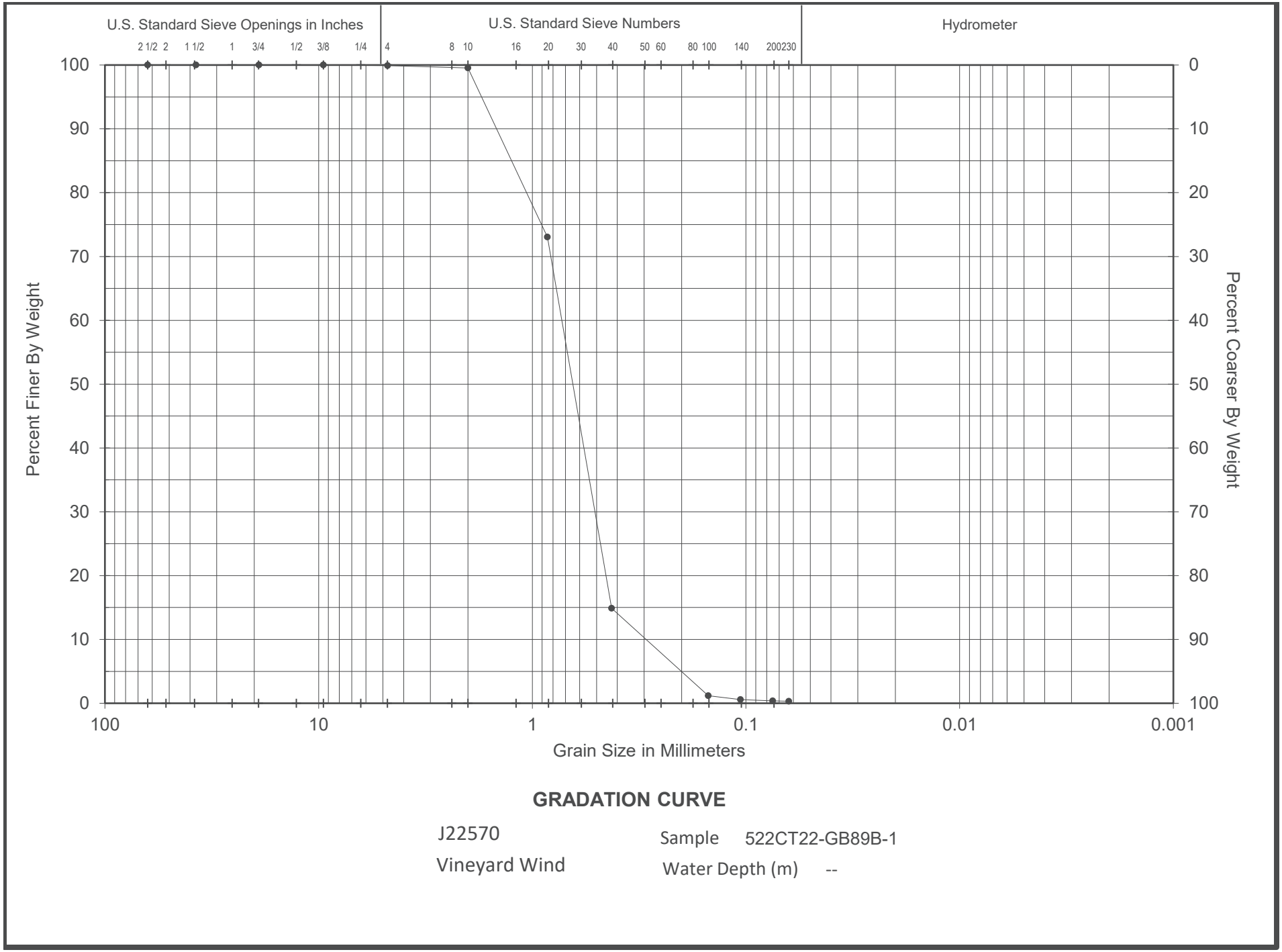
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.92	0.08	
2	10	99.54	0.46	5.19
0.85	20	73.04	26.96	
0.425	40	14.89	85.11	
0.15	100	1.20	98.80	
0.106	140	0.57	99.43	
0.075	200	0.37	99.63	
0.063	230	0.32	99.68	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.54
% Passing #230	0.32
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.44
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	99.22
% Silt and Clay	< 0.0625 mm	0.32
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	26.88
% Medium Sand	0.25 - 0.50 mm	58.15
% Fine Sand	0.0625 - 0.25 mm	14.57

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.89	0.425	1.20	0.150	0.293
D30	30	73.04	0.850	14.89	0.425	0.509
D50	50	73.04	0.850	14.89	0.425	0.646
D60	60	73.04	0.850	14.89	0.425	0.728

Uniformity Coefficient (Cu)	2.484
Coefficient of Curvature (Cc)	1.215



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB89B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB89C-1
Water Depth (m)	--

Grain Size Data

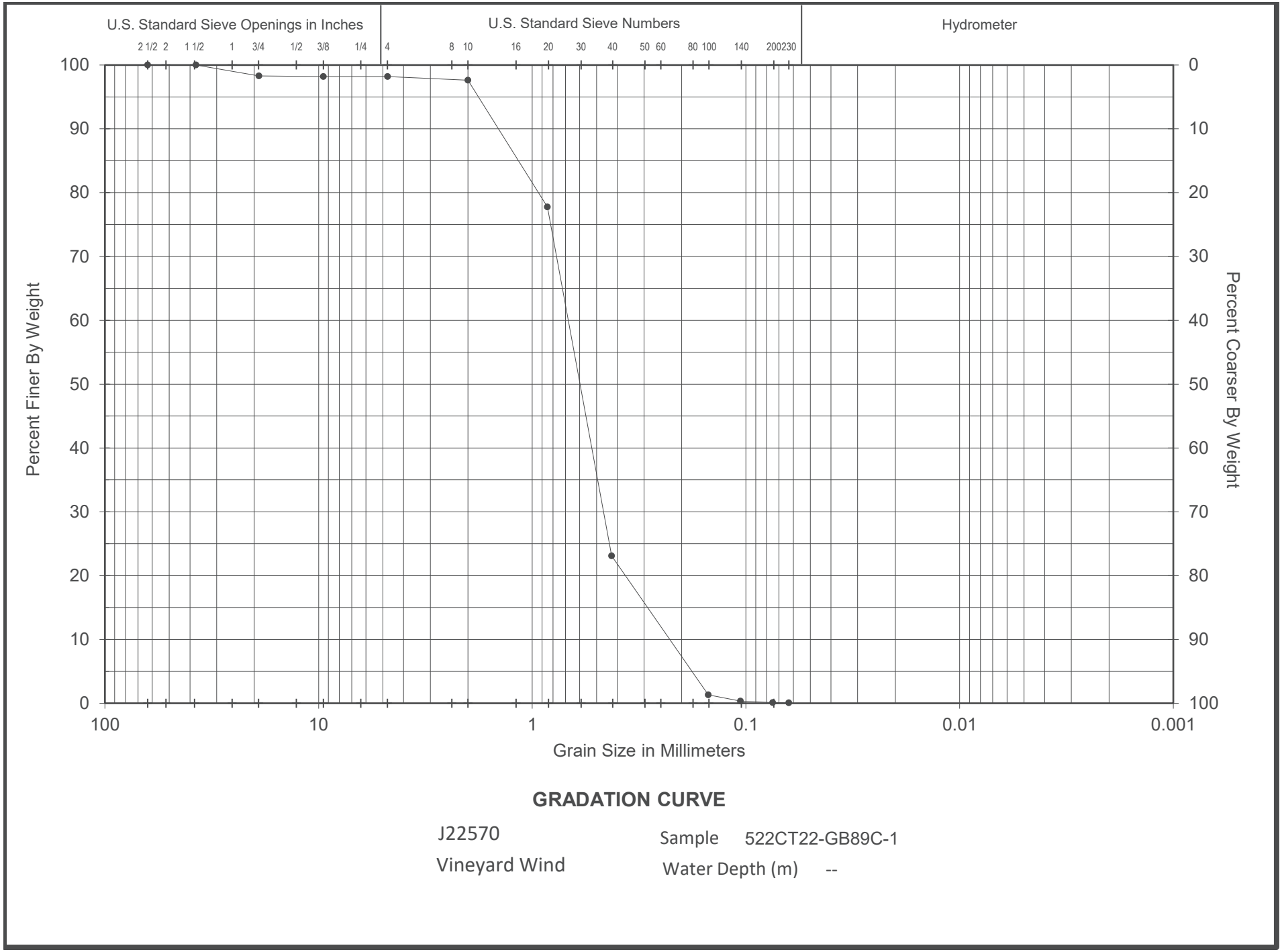
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	98.29	1.71	
9.5	3/8"	98.18	1.82	
4.75	4	98.18	1.82	
2	10	97.63	2.37	100.00
0.85	20	77.75	22.25	
0.425	40	23.10	76.90	
0.15	100	1.33	98.67	
0.106	140	0.33	99.67	
0.075	200	0.11	99.89	
0.063	230	0.06	99.94	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	97.63
% Passing #230	0.06
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	2.37
% Sand	0.0625 - 2.00 mm	97.57
% Silt and Clay	< 0.0625 mm	0.06
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	20.43
% Medium Sand	0.25 - 0.50 mm	54.65
% Fine Sand	0.0625 - 0.25 mm	23.04

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	23.10	0.425	1.33	0.150	0.227
D30	30	77.75	0.850	23.10	0.425	0.464
D50	50	77.75	0.850	23.10	0.425	0.598
D60	60	77.75	0.850	23.10	0.425	0.679

Uniformity Coefficient (Cu)	2.988
Coefficient of Curvature (Cc)	1.396



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB89C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB90A-1
Water Depth (m)	--

Grain Size Data

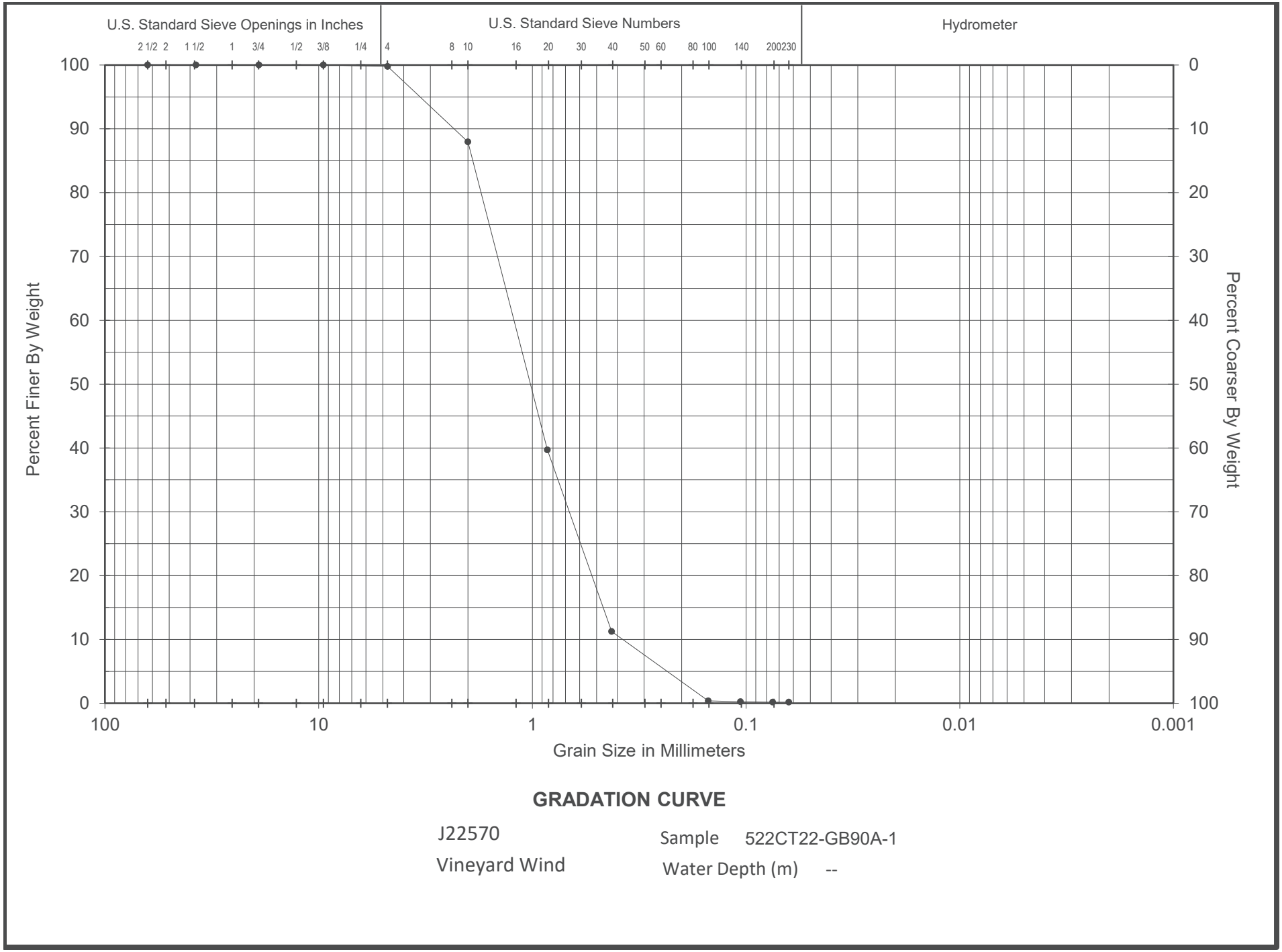
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.78	0.22	
2	10	87.97	12.03	41.09
0.85	20	39.70	60.30	
0.425	40	11.23	88.77	
0.15	100	0.38	99.62	
0.106	140	0.23	99.77	
0.075	200	0.19	99.81	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	87.97
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	7.09
% Gravel-Sized Shell	> 2.00 mm	4.94
% Sand	0.0625 - 2.00 mm	87.79
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	60.08
% Medium Sand	0.25 - 0.50 mm	28.47
% Fine Sand	0.0625 - 0.25 mm	11.06

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.23	0.425	0.38	0.150	0.378
D30	30	39.70	0.850	11.23	0.425	0.671
D50	50	87.97	2.000	39.70	0.850	1.020
D60	60	87.97	2.000	39.70	0.850	1.218

Uniformity Coefficient (Cu)	3.225
Coefficient of Curvature (Cc)	0.979



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB90A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB90B-1
Water Depth (m)	--

Grain Size Data

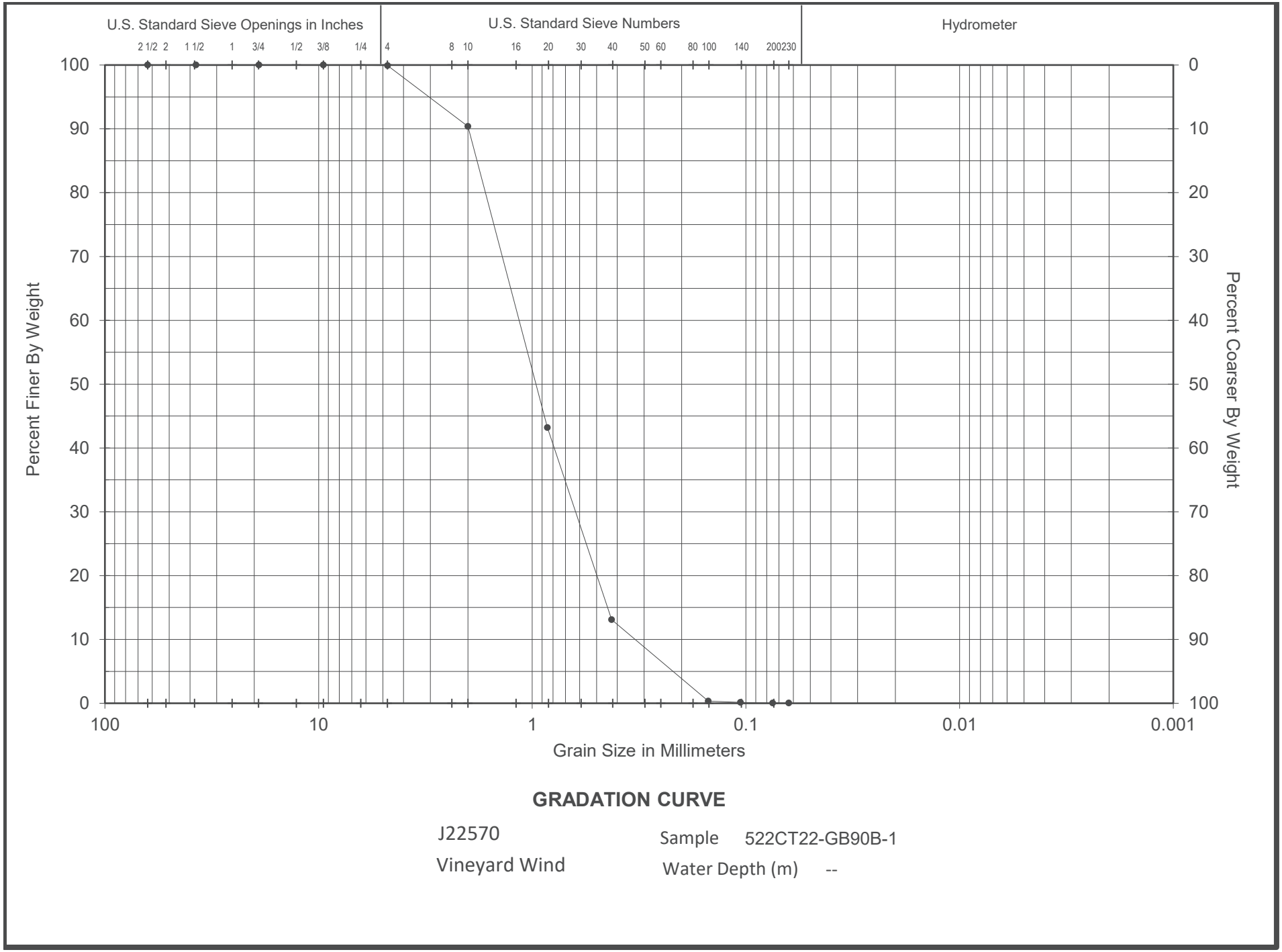
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.91	0.09	
2	10	90.39	9.61	40.58
0.85	20	43.18	56.82	
0.425	40	13.10	86.90	
0.15	100	0.33	99.67	
0.106	140	0.14	99.86	
0.075	200	0.05	99.95	
0.063	230	0.04	99.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	90.39
% Passing #230	0.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.71
% Gravel-Sized Shell	> 2.00 mm	3.90
% Sand	0.0625 - 2.00 mm	90.36
% Silt and Clay	< 0.0625 mm	0.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	56.73
% Medium Sand	0.25 - 0.50 mm	30.08
% Fine Sand	0.0625 - 0.25 mm	13.07

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.10	0.425	0.33	0.150	0.330
D30	30	43.18	0.850	13.10	0.425	0.627
D50	50	90.39	2.000	43.18	0.850	0.962
D60	60	90.39	2.000	43.18	0.850	1.153

Uniformity Coefficient (Cu)	3.494
Coefficient of Curvature (Cc)	1.034



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB90B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB90C-1
Water Depth (m)	--

Grain Size Data

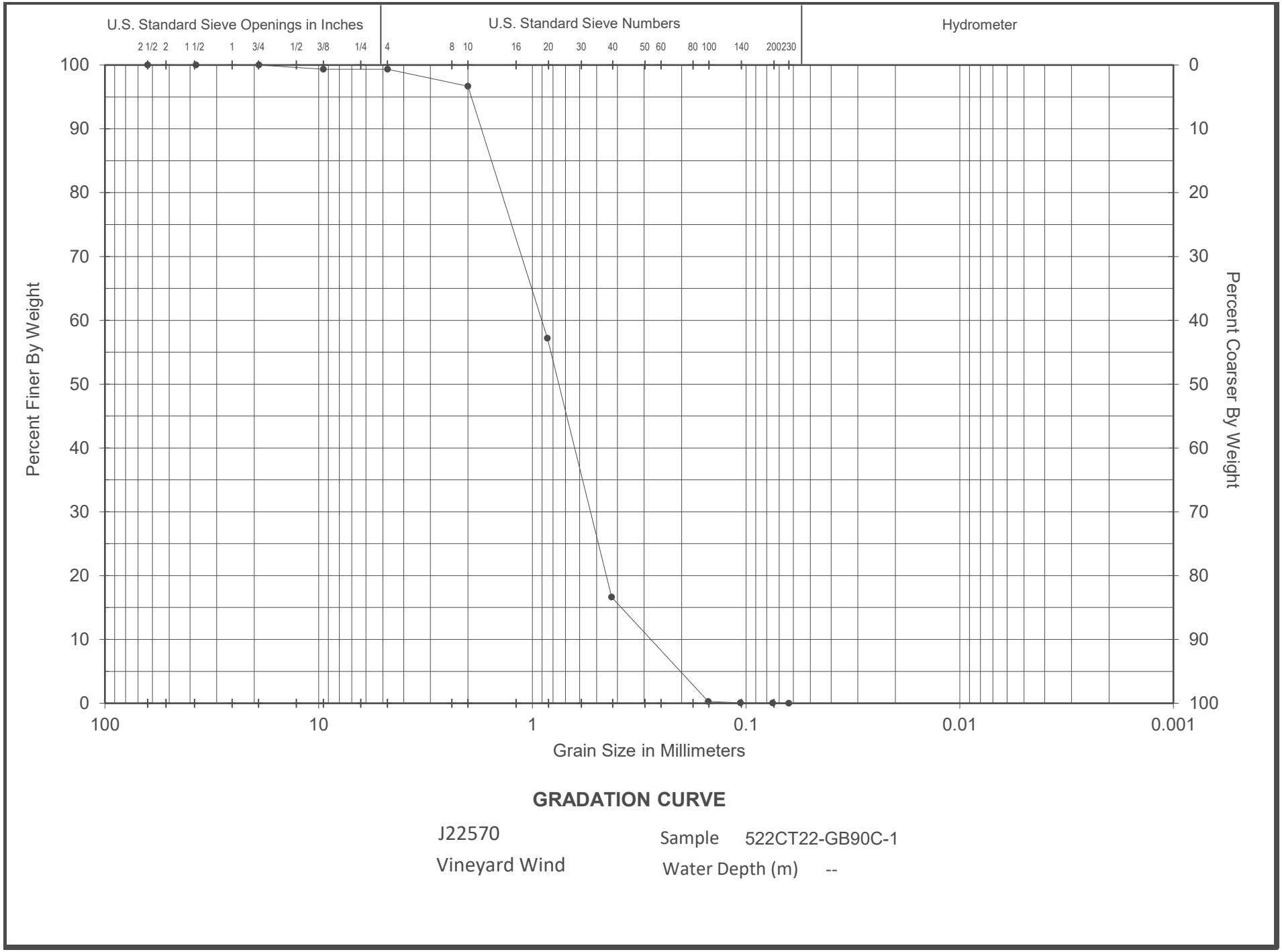
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.34	0.66	
4.75	4	99.34	0.66	
2	10	96.69	3.31	31.99
0.85	20	57.21	42.79	
0.425	40	16.62	83.38	
0.15	100	0.27	99.73	
0.106	140	0.08	99.92	
0.075	200	0.02	99.98	
0.063	230	0.01	99.99	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.69
% Passing #230	0.01
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.25
% Gravel-Sized Shell	> 2.00 mm	1.06
% Sand	0.0625 - 2.00 mm	96.68
% Silt and Clay	< 0.0625 mm	0.01
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	42.13
% Medium Sand	0.25 - 0.50 mm	40.59
% Fine Sand	0.0625 - 0.25 mm	16.61

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	16.62	0.425	0.27	0.150	0.279
D30	30	57.21	0.850	16.62	0.425	0.534
D50	50	57.21	0.850	16.62	0.425	0.752
D60	60	96.69	2.000	57.21	0.850	0.903

Uniformity Coefficient (Cu)	3.239
Coefficient of Curvature (Cc)	1.133



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB90C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB91A-1
Water Depth (m)	--

Grain Size Data

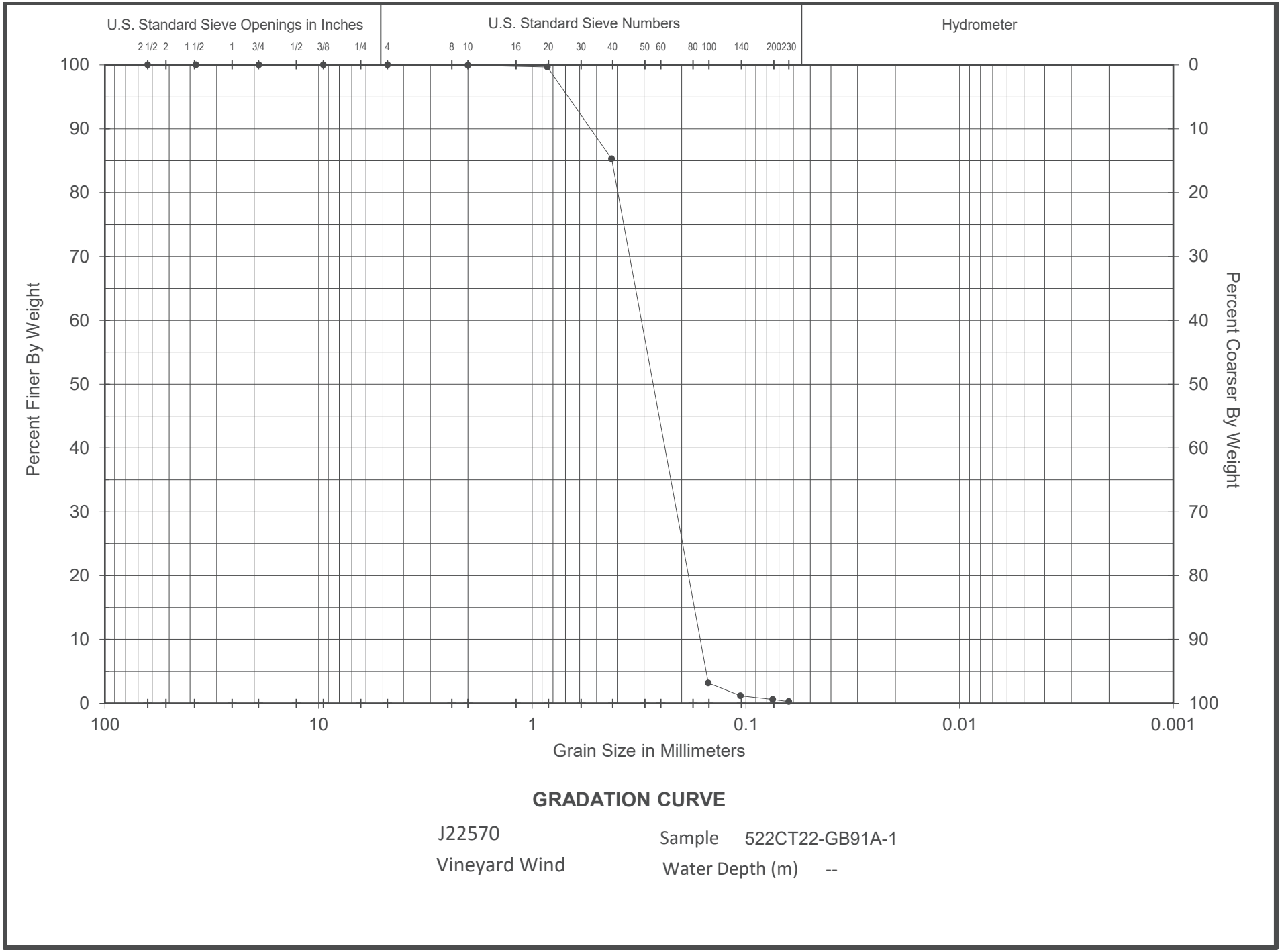
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.94	0.06	0.00
0.85	20	99.68	0.32	
0.425	40	85.31	14.69	
0.15	100	3.16	96.84	
0.106	140	1.18	98.82	
0.075	200	0.61	99.39	
0.063	230	0.27	99.73	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.94
% Passing #230	0.27
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	99.67
% Silt and Clay	< 0.0625 mm	0.27
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.32
% Medium Sand	0.25 - 0.50 mm	14.38
% Fine Sand	0.0625 - 0.25 mm	85.04

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	85.31	0.425	3.16	0.150	0.164
D30	30	85.31	0.425	3.16	0.150	0.211
D50	50	85.31	0.425	3.16	0.150	0.272
D60	60	85.31	0.425	3.16	0.150	0.308

Uniformity Coefficient (Cu)	1.885
Coefficient of Curvature (Cc)	0.881



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB91A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB91B-1
Water Depth (m)	--

Grain Size Data

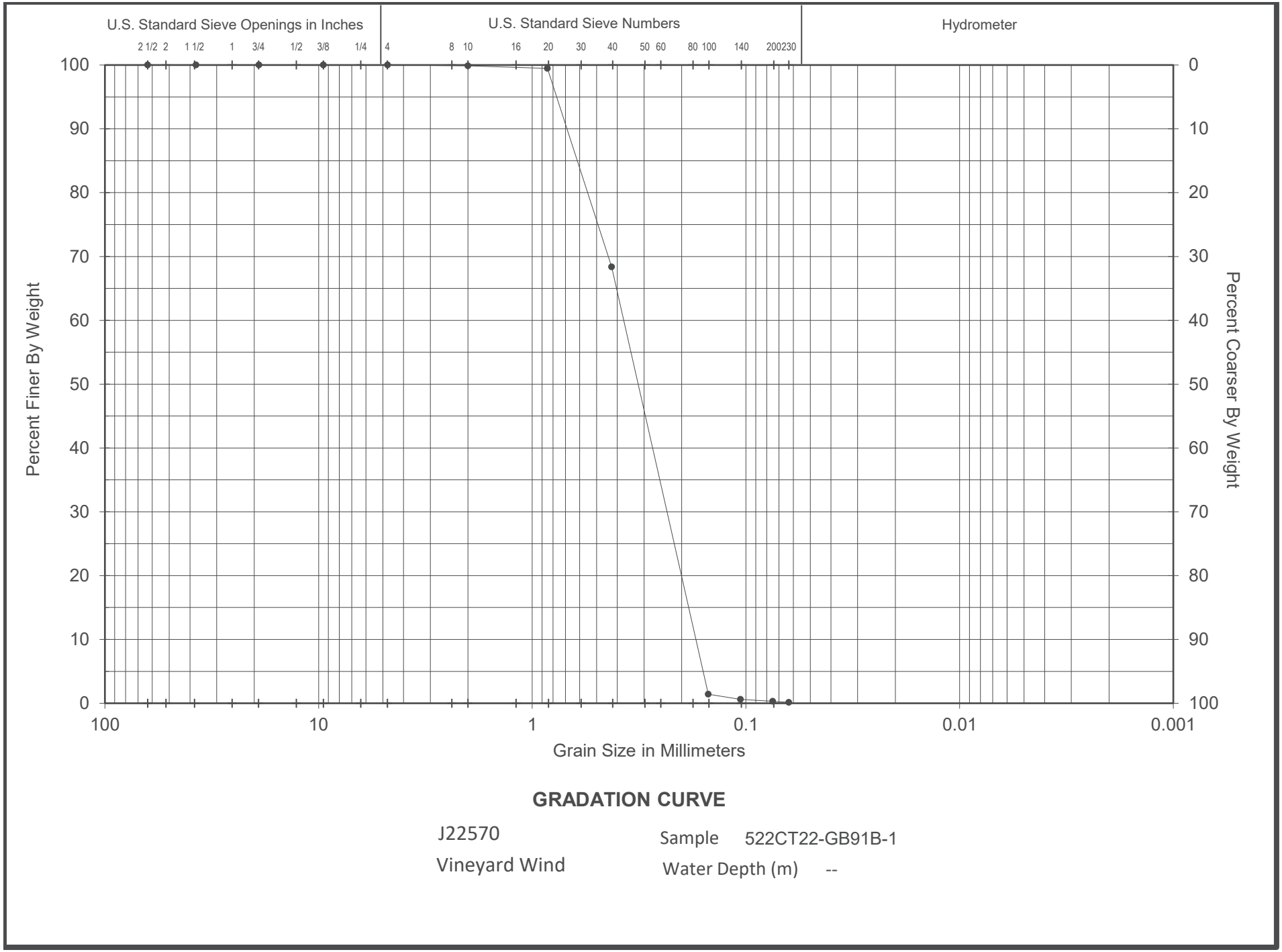
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.87	0.13	52.50
0.85	20	99.49	0.51	
0.425	40	68.38	31.62	
0.15	100	1.43	98.57	
0.106	140	0.61	99.39	
0.075	200	0.30	99.70	
0.063	230	0.15	99.85	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.87
% Passing #230	0.15
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.06
% Gravel-Sized Shell	> 2.00 mm	0.07
% Sand	0.0625 - 2.00 mm	99.72
% Silt and Clay	< 0.0625 mm	0.15
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.51
% Medium Sand	0.25 - 0.50 mm	31.11
% Fine Sand	0.0625 - 0.25 mm	68.23

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	68.38	0.425	1.43	0.150	0.171
D30	30	68.38	0.425	1.43	0.150	0.234
D50	50	68.38	0.425	1.43	0.150	0.319
D60	60	68.38	0.425	1.43	0.150	0.373

Uniformity Coefficient (Cu)	2.177
Coefficient of Curvature (Cc)	0.856



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB91B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB91C-1
Water Depth (m)	--

Grain Size Data

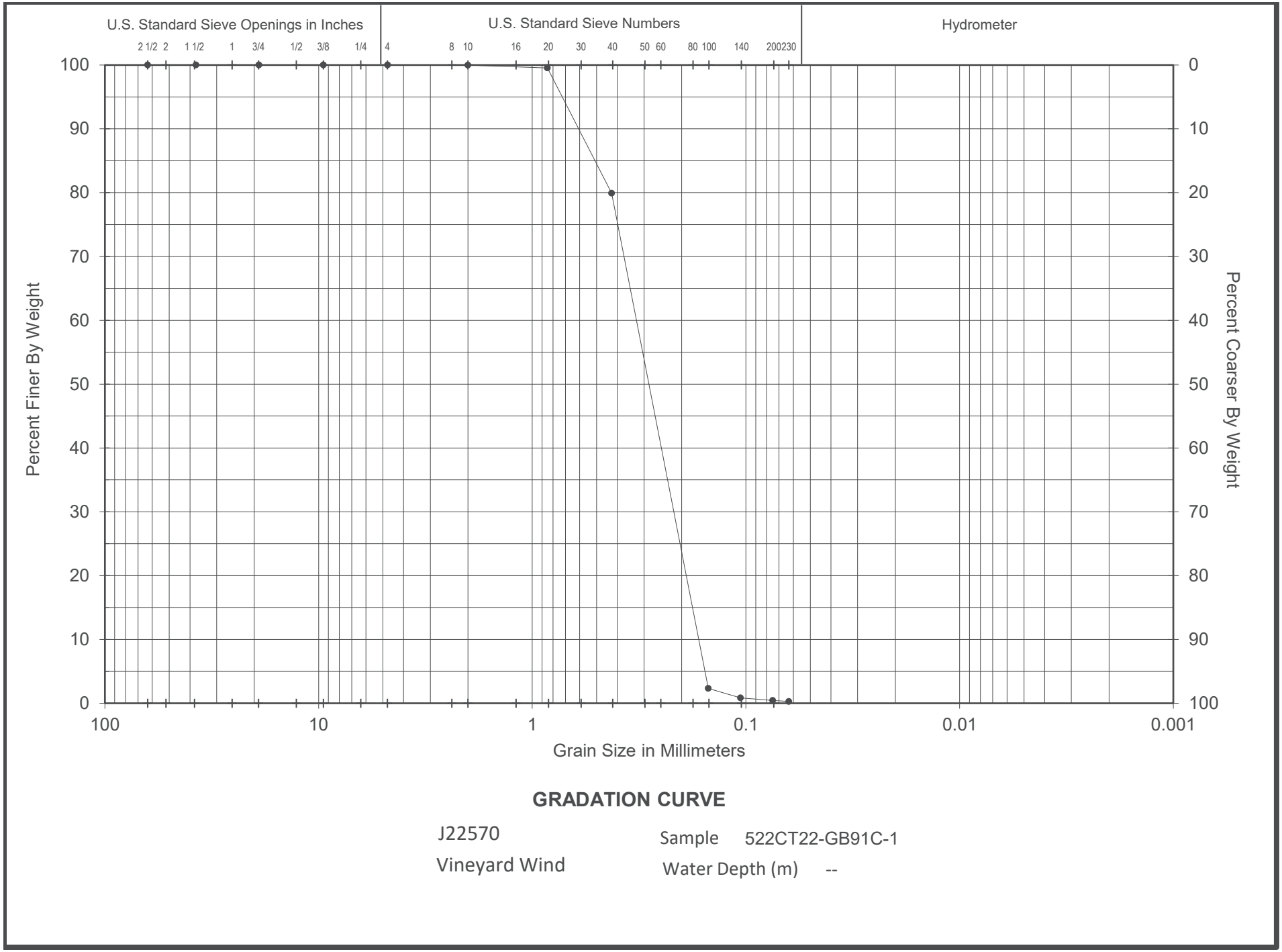
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.97	0.03	100.00
0.85	20	99.56	0.44	
0.425	40	79.93	20.07	
0.15	100	2.31	97.69	
0.106	140	0.84	99.16	
0.075	200	0.44	99.56	
0.063	230	0.29	99.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.97
% Passing #230	0.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.03
% Sand	0.0625 - 2.00 mm	99.68
% Silt and Clay	< 0.0625 mm	0.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.44
% Medium Sand	0.25 - 0.50 mm	19.63
% Fine Sand	0.0625 - 0.25 mm	79.64

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	79.93	0.425	2.31	0.150	0.166
D30	30	79.93	0.425	2.31	0.150	0.217
D50	50	79.93	0.425	2.31	0.150	0.284
D60	60	79.93	0.425	2.31	0.150	0.325

Uniformity Coefficient (Cu)	1.956
Coefficient of Curvature (Cc)	0.874



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB91C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB92A-1
Water Depth (m)	--

Grain Size Data

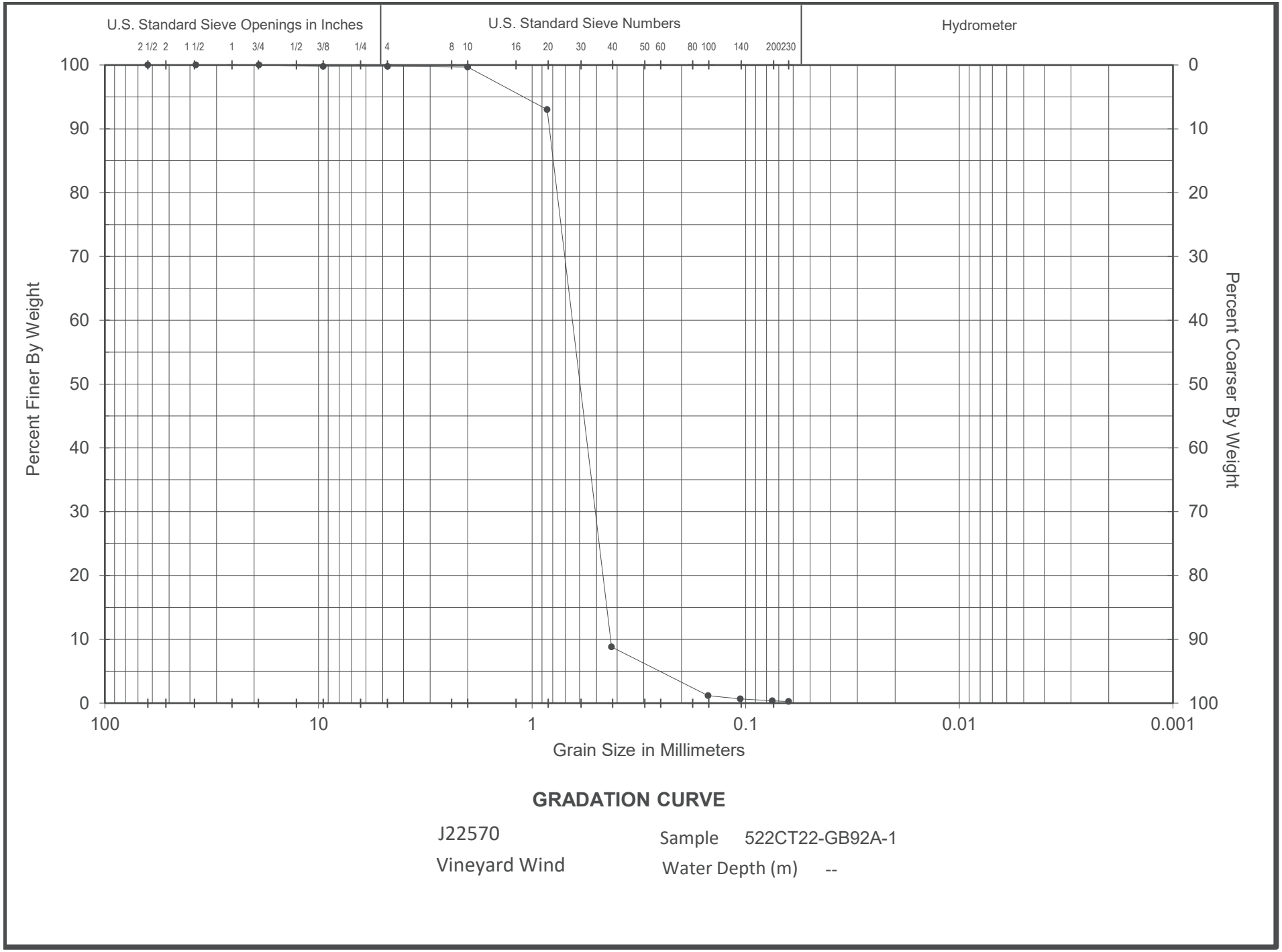
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.79	0.21	
4.75	4	99.79	0.21	
2	10	99.68	0.32	100.00
0.85	20	93.01	6.99	
0.425	40	8.80	91.20	
0.15	100	1.16	98.84	
0.106	140	0.66	99.34	
0.075	200	0.38	99.62	
0.063	230	0.26	99.74	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.68
% Passing #230	0.26
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.32
% Sand	0.0625 - 2.00 mm	99.42
% Silt and Clay	< 0.0625 mm	0.26
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.79
% Medium Sand	0.25 - 0.50 mm	84.21
% Fine Sand	0.0625 - 0.25 mm	8.54

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	93.01	0.850	8.80	0.425	0.429
D30	30	93.01	0.850	8.80	0.425	0.506
D50	50	93.01	0.850	8.80	0.425	0.597
D60	60	93.01	0.850	8.80	0.425	0.648

Uniformity Coefficient (Cu)	1.509
Coefficient of Curvature (Cc)	0.921



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB92A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB92B-1
Water Depth (m)	--

Grain Size Data

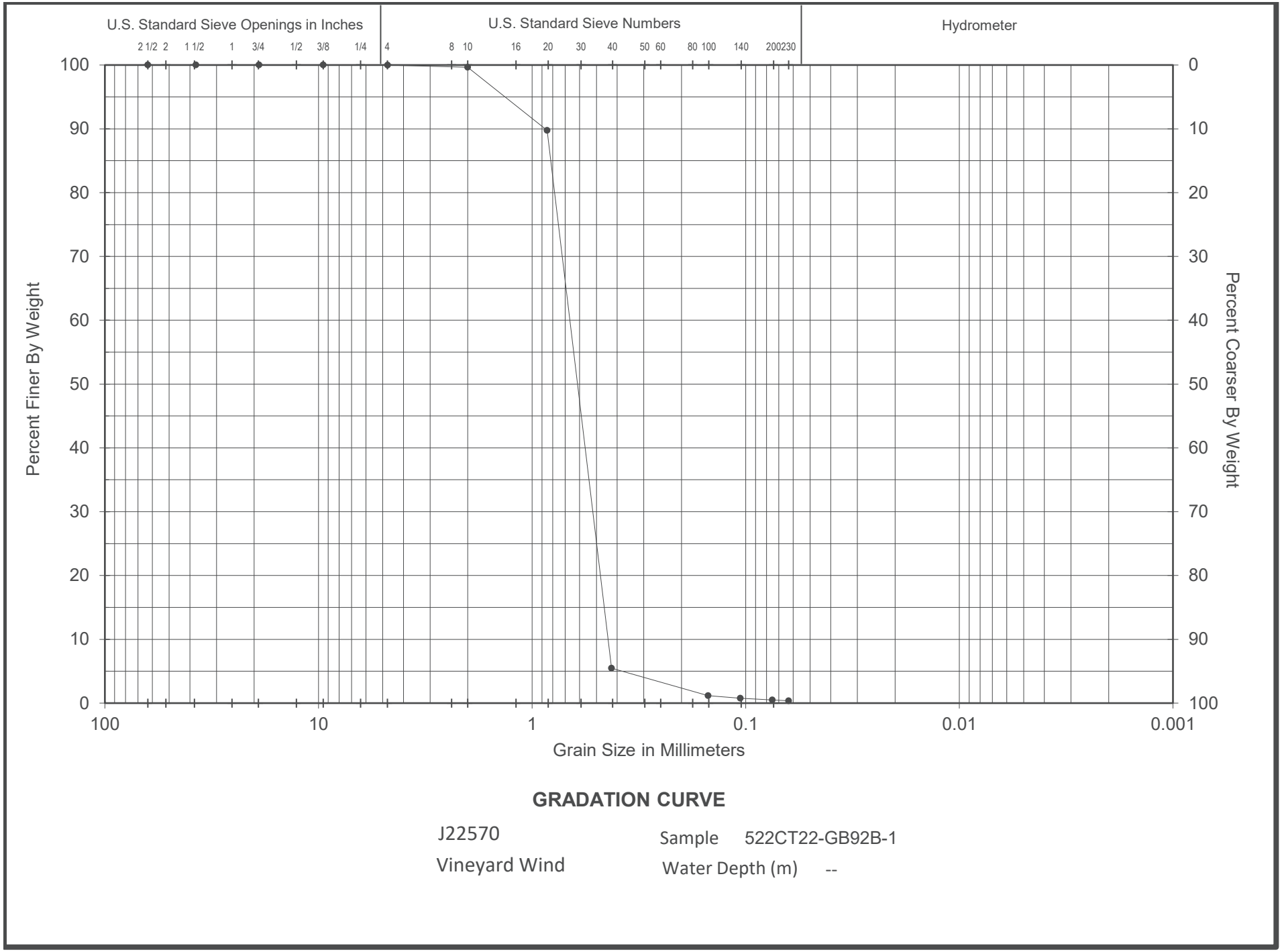
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.97	0.03	
2	10	99.65	0.35	100.00
0.85	20	89.75	10.25	
0.425	40	5.49	94.51	
0.15	100	1.18	98.82	
0.106	140	0.75	99.25	
0.075	200	0.48	99.52	
0.063	230	0.38	99.62	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.65
% Passing #230	0.38
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.35
% Sand	0.0625 - 2.00 mm	99.28
% Silt and Clay	< 0.0625 mm	0.38
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	10.22
% Medium Sand	0.25 - 0.50 mm	84.27
% Fine Sand	0.0625 - 0.25 mm	5.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	89.75	0.850	5.49	0.425	0.441
D30	30	89.75	0.850	5.49	0.425	0.520
D50	50	89.75	0.850	5.49	0.425	0.613
D60	60	89.75	0.850	5.49	0.425	0.665

Uniformity Coefficient (Cu)	1.509
Coefficient of Curvature (Cc)	0.921



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB92B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB92C-1
Water Depth (m)	--

Grain Size Data

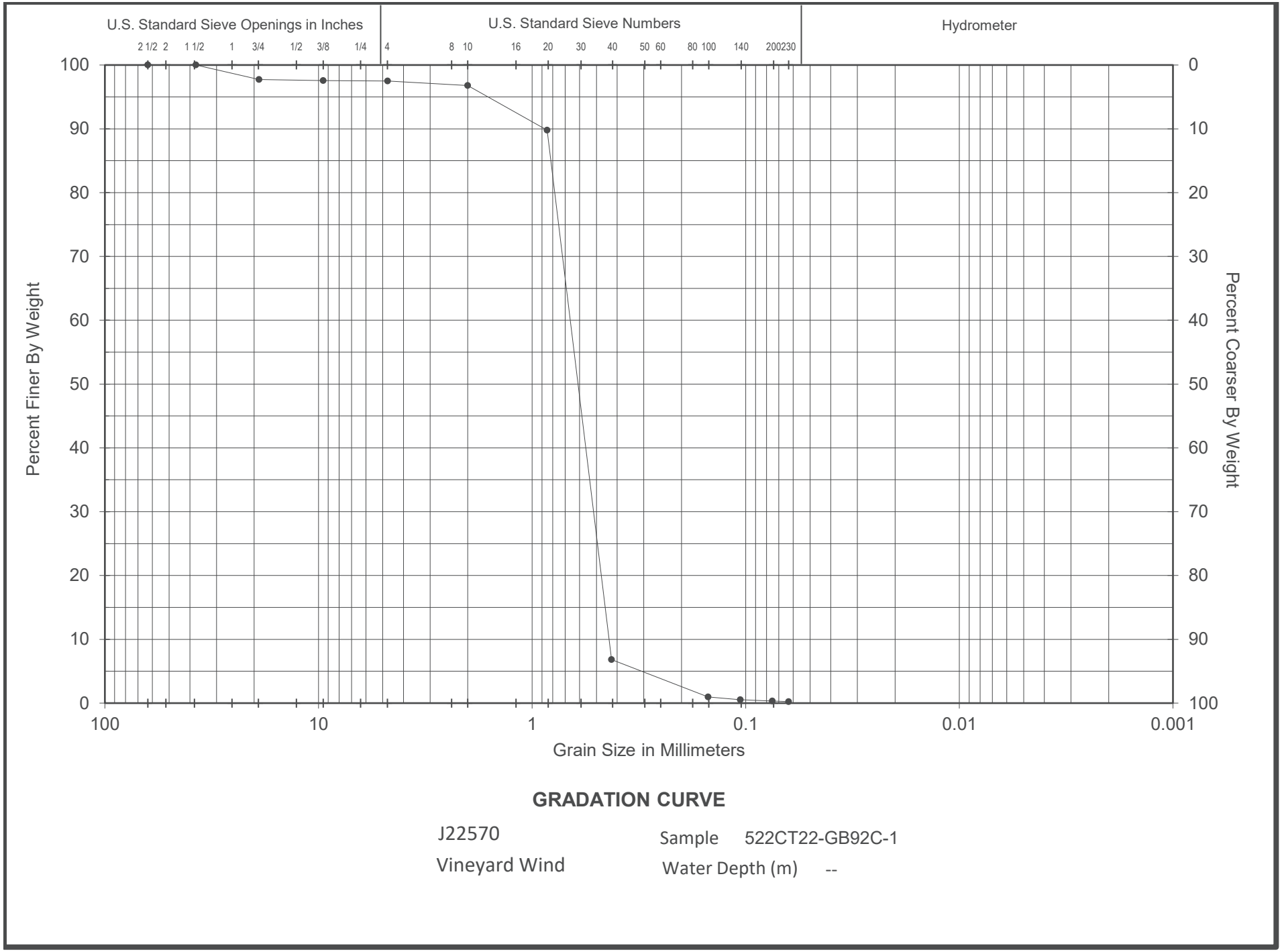
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.73	2.27	
9.5	3/8"	97.56	2.44	
4.75	4	97.48	2.52	
2	10	96.78	3.22	100.00
0.85	20	89.78	10.22	
0.425	40	6.81	93.19	
0.15	100	0.96	99.04	
0.106	140	0.54	99.46	
0.075	200	0.32	99.68	
0.063	230	0.24	99.76	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.78
% Passing #230	0.24
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	3.22
% Sand	0.0625 - 2.00 mm	96.54
% Silt and Clay	< 0.0625 mm	0.24
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.70
% Medium Sand	0.25 - 0.50 mm	82.96
% Fine Sand	0.0625 - 0.25 mm	6.58

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	89.78	0.850	6.81	0.425	0.436
D30	30	89.78	0.850	6.81	0.425	0.516
D50	50	89.78	0.850	6.81	0.425	0.610
D60	60	89.78	0.850	6.81	0.425	0.663

Uniformity Coefficient (Cu)	1.519
Coefficient of Curvature (Cc)	0.920



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB92C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB93A-1
Water Depth (m)	--

Grain Size Data

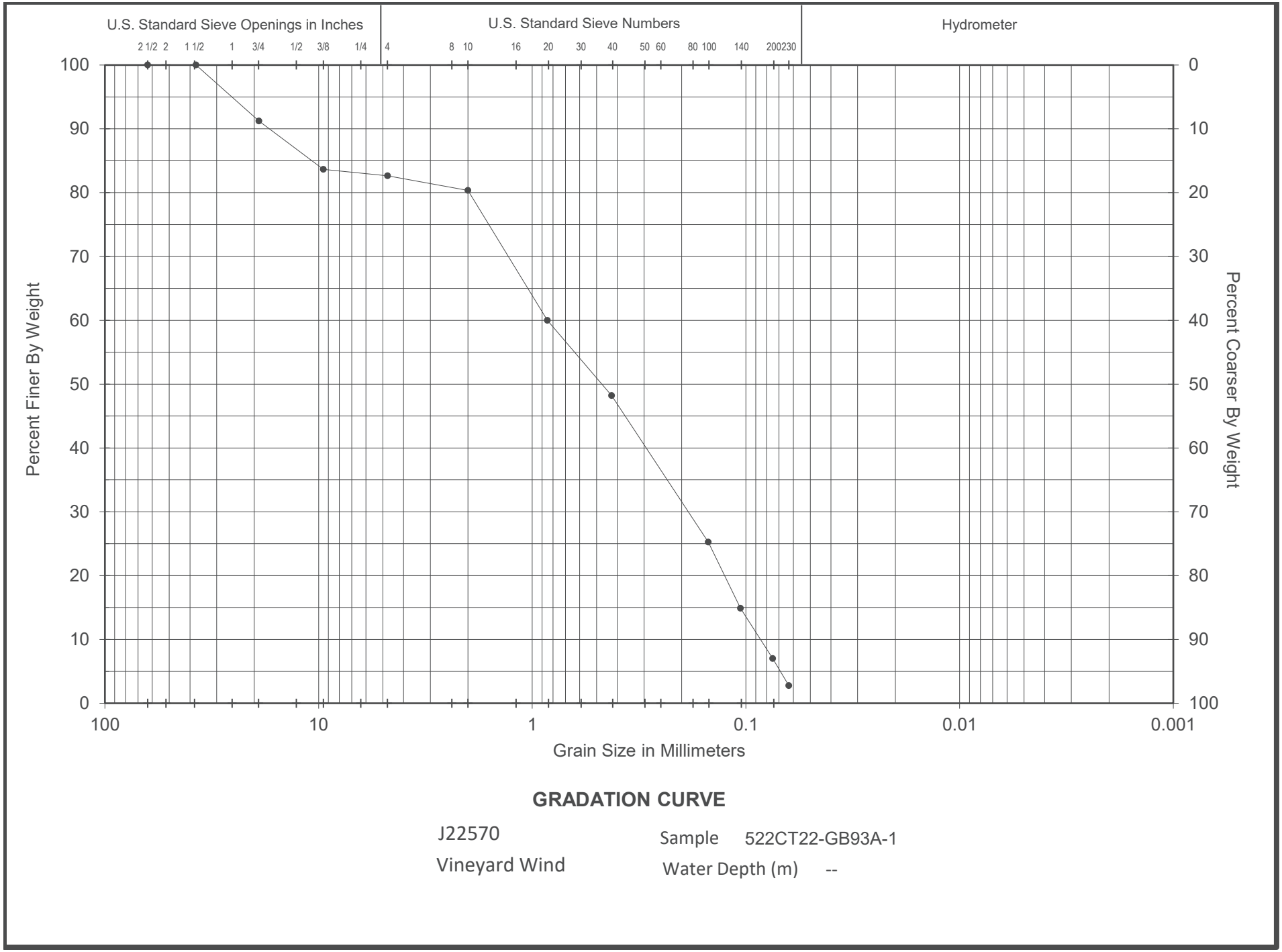
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	91.22	8.78	
9.5	3/8"	83.64	16.36	
4.75	4	82.64	17.36	
2	10	80.35	19.65	87.52
0.85	20	59.97	40.03	
0.425	40	48.20	51.80	
0.15	100	25.26	74.74	
0.106	140	14.88	85.12	
0.075	200	7.02	92.98	
0.063	230	2.77	97.23	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	80.35
% Passing #230	2.77
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.45
% Gravel-Sized Shell	> 2.00 mm	17.20
% Sand	0.0625 - 2.00 mm	77.58
% Silt and Clay	< 0.0625 mm	2.77
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	22.67
% Medium Sand	0.25 - 0.50 mm	11.77
% Fine Sand	0.0625 - 0.25 mm	45.43

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.88	0.106	7.02	0.075	0.086
D30	30	48.20	0.425	25.26	0.150	0.186
D50	50	59.97	0.850	48.20	0.425	0.472
D60	60	80.35	2.000	59.97	0.850	0.851

Uniformity Coefficient (Cu)	9.951
Coefficient of Curvature (Cc)	0.475



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB93A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB93B-1
Water Depth (m)	--

Grain Size Data

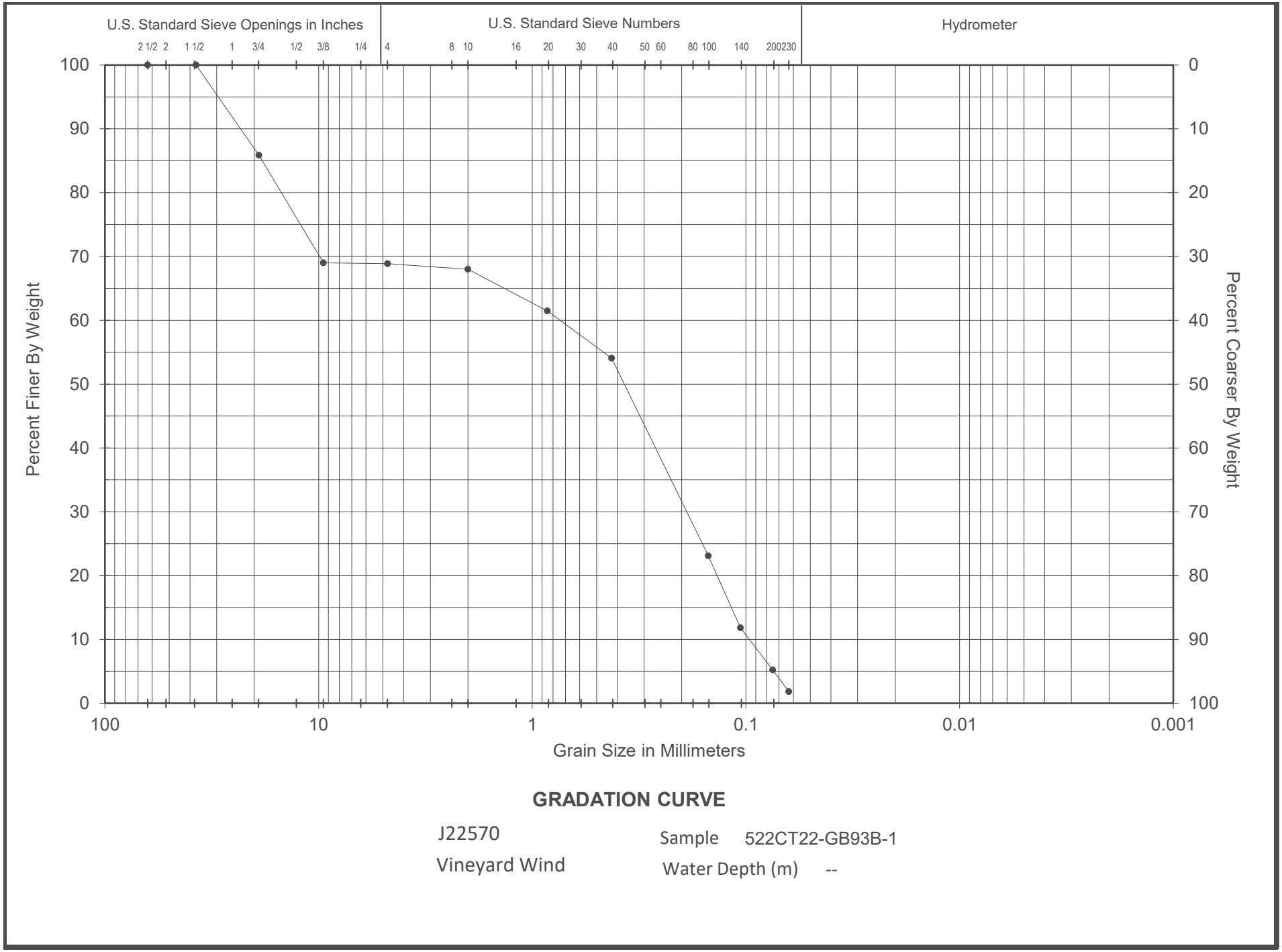
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	85.86	14.14	
9.5	3/8"	69.01	30.99	
4.75	4	68.89	31.11	
2	10	67.98	32.02	98.35
0.85	20	61.47	38.53	
0.425	40	54.08	45.92	
0.15	100	23.11	76.89	
0.106	140	11.81	88.19	
0.075	200	5.21	94.79	
0.063	230	1.82	98.18	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	67.98
% Passing #230	1.82
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.53
% Gravel-Sized Shell	> 2.00 mm	31.49
% Sand	0.0625 - 2.00 mm	66.16
% Silt and Clay	< 0.0625 mm	1.82
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.42
% Medium Sand	0.25 - 0.50 mm	7.39
% Fine Sand	0.0625 - 0.25 mm	52.26

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.81	0.106	5.21	0.075	0.096
D30	30	54.08	0.425	23.11	0.150	0.189
D50	50	54.08	0.425	23.11	0.150	0.371
D60	60	61.47	0.850	54.08	0.425	0.740

Uniformity Coefficient (Cu)	7.681
Coefficient of Curvature (Cc)	0.501



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB93B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB93C-1
Water Depth (m)	--

Grain Size Data

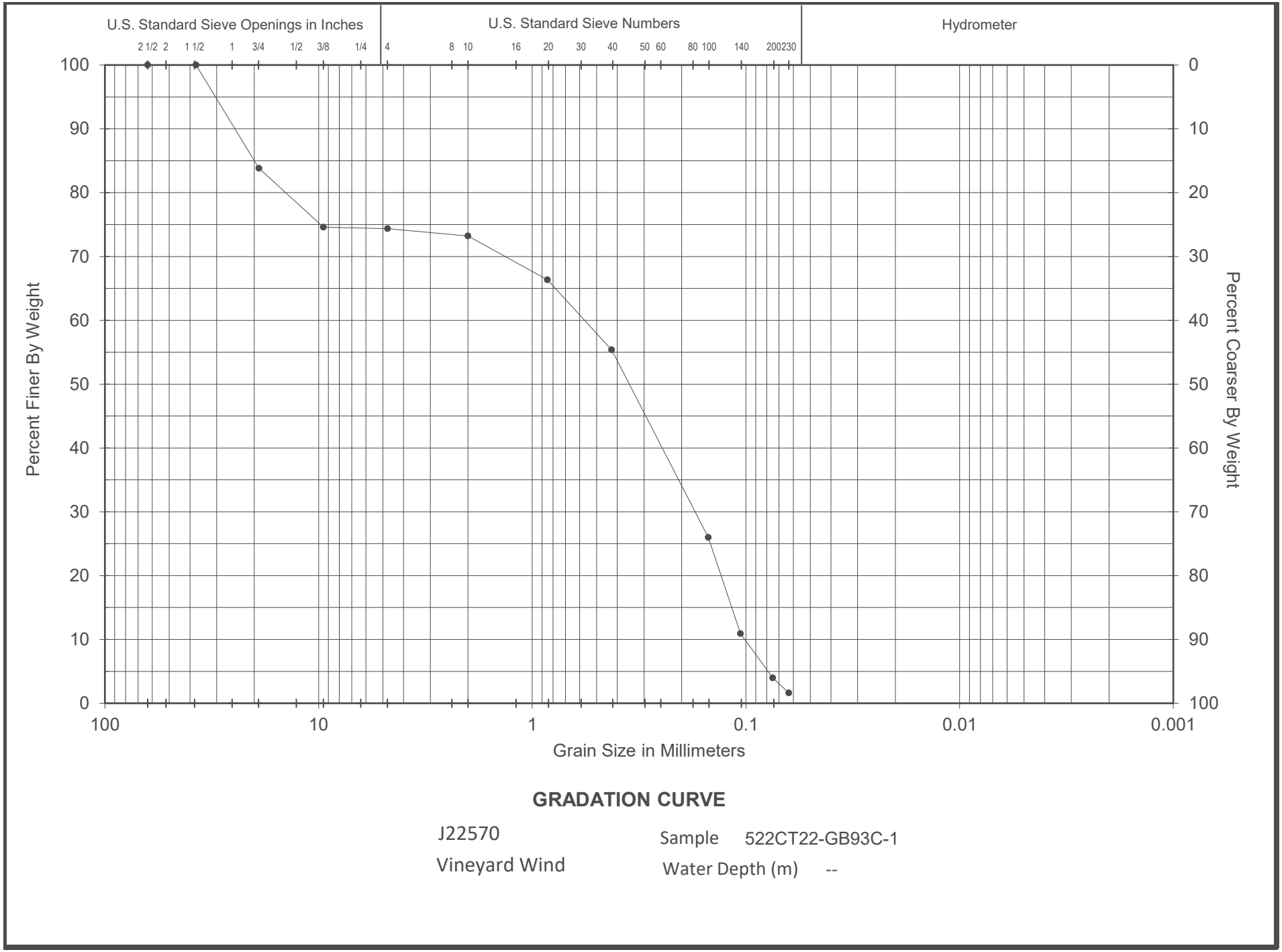
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	83.81	16.19	
9.5	3/8"	74.61	25.39	
4.75	4	74.35	25.65	
2	10	73.20	26.80	96.85
0.85	20	66.36	33.64	
0.425	40	55.37	44.63	
0.15	100	26.00	74.00	
0.106	140	10.92	89.08	
0.075	200	3.99	96.01	
0.063	230	1.63	98.37	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	73.20
% Passing #230	1.63
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.84
% Gravel-Sized Shell	> 2.00 mm	25.95
% Sand	0.0625 - 2.00 mm	71.57
% Silt and Clay	< 0.0625 mm	1.63
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	7.99
% Medium Sand	0.25 - 0.50 mm	10.99
% Fine Sand	0.0625 - 0.25 mm	53.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.92	0.106	3.99	0.075	0.101
D30	30	55.37	0.425	26.00	0.150	0.173
D50	50	55.37	0.425	26.00	0.150	0.351
D60	60	66.36	0.850	55.37	0.425	0.569

Uniformity Coefficient (Cu)	5.622
Coefficient of Curvature (Cc)	0.519



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB93C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB94A-1
Water Depth (m)	--

Grain Size Data

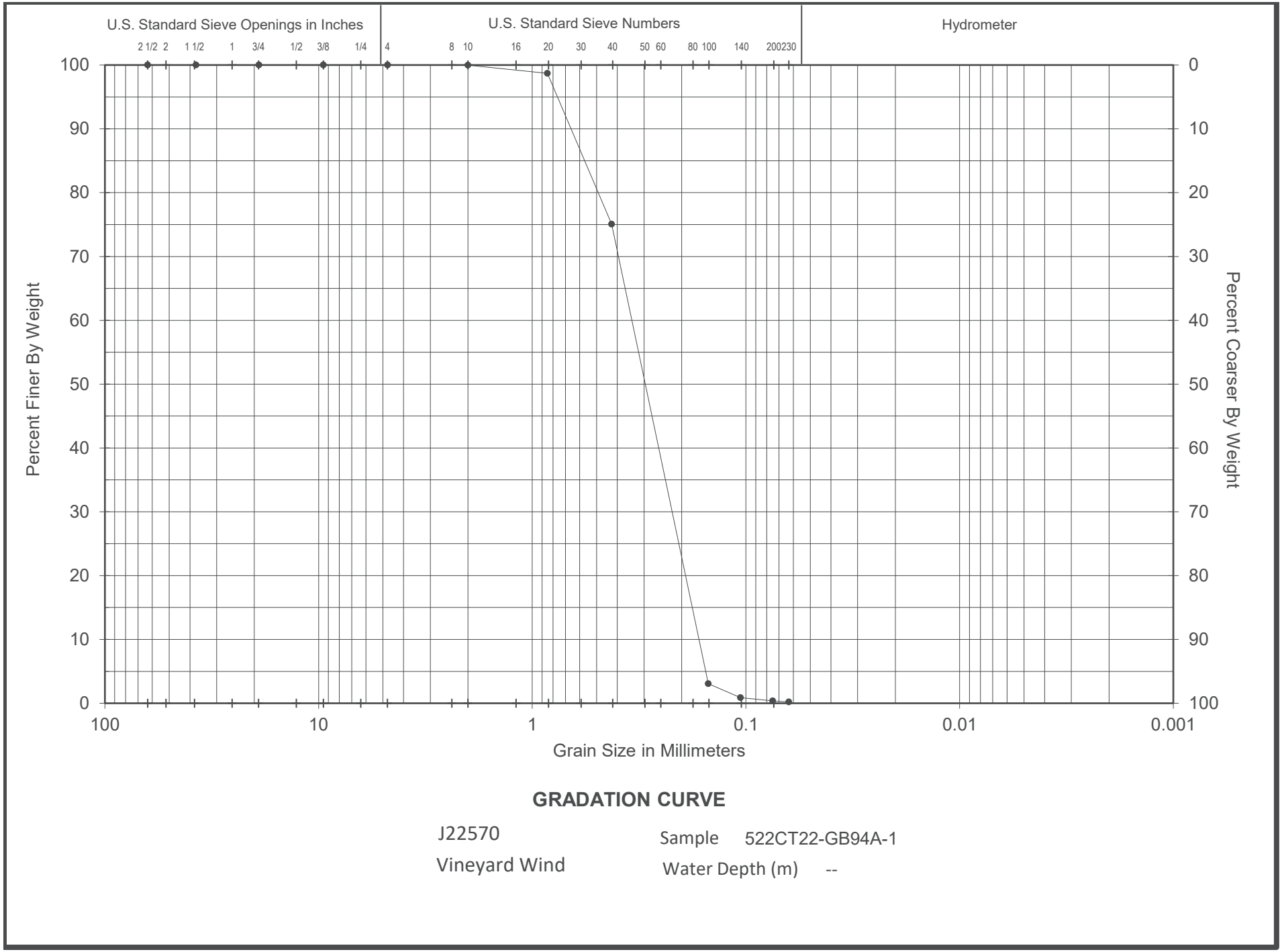
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	98.71	1.29	
0.425	40	75.06	24.94	
0.15	100	3.08	96.92	
0.106	140	0.87	99.13	
0.075	200	0.36	99.64	
0.063	230	0.22	99.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.77
% Silt and Clay	< 0.0625 mm	0.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.29
% Medium Sand	0.25 - 0.50 mm	23.65
% Fine Sand	0.0625 - 0.25 mm	74.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	75.06	0.425	3.08	0.150	0.166
D30	30	75.06	0.425	3.08	0.150	0.221
D50	50	75.06	0.425	3.08	0.150	0.296
D60	60	75.06	0.425	3.08	0.150	0.342

Uniformity Coefficient (Cu)	2.061
Coefficient of Curvature (Cc)	0.865



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB94A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB94B-1
Water Depth (m)	--

Grain Size Data

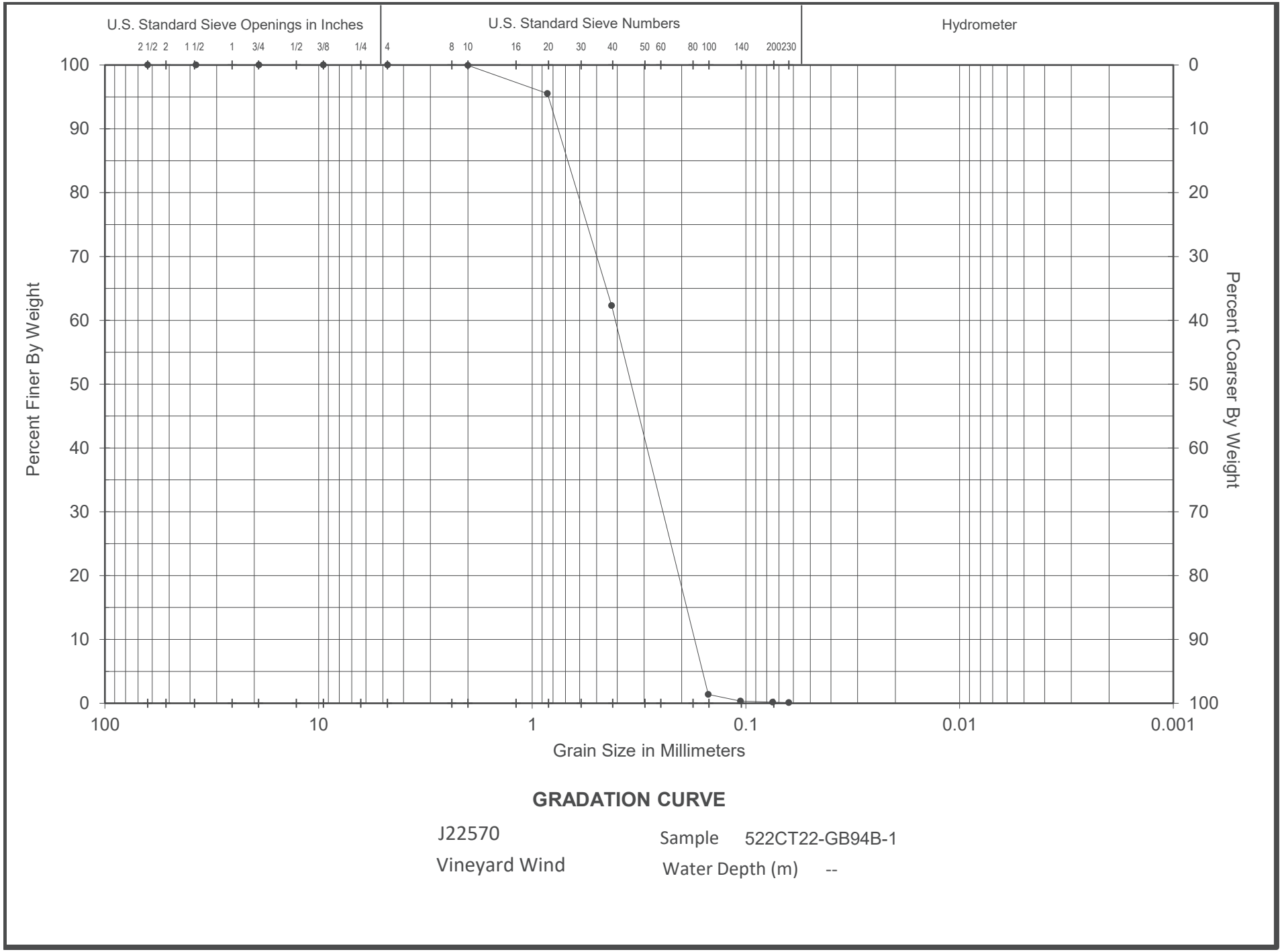
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	52.63
0.85	20	95.52	4.48	
0.425	40	62.31	37.69	
0.15	100	1.37	98.63	
0.106	140	0.35	99.65	
0.075	200	0.16	99.84	
0.063	230	0.11	99.89	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	0.11
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.02
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	99.84
% Silt and Clay	< 0.0625 mm	0.11
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.48
% Medium Sand	0.25 - 0.50 mm	33.21
% Fine Sand	0.0625 - 0.25 mm	62.20

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	62.31	0.425	1.37	0.150	0.174
D30	30	62.31	0.425	1.37	0.150	0.245
D50	50	62.31	0.425	1.37	0.150	0.344
D60	60	62.31	0.425	1.37	0.150	0.409

Uniformity Coefficient (Cu)	2.350
Coefficient of Curvature (Cc)	0.843



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB94B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB94C-1
Water Depth (m)	--

Grain Size Data

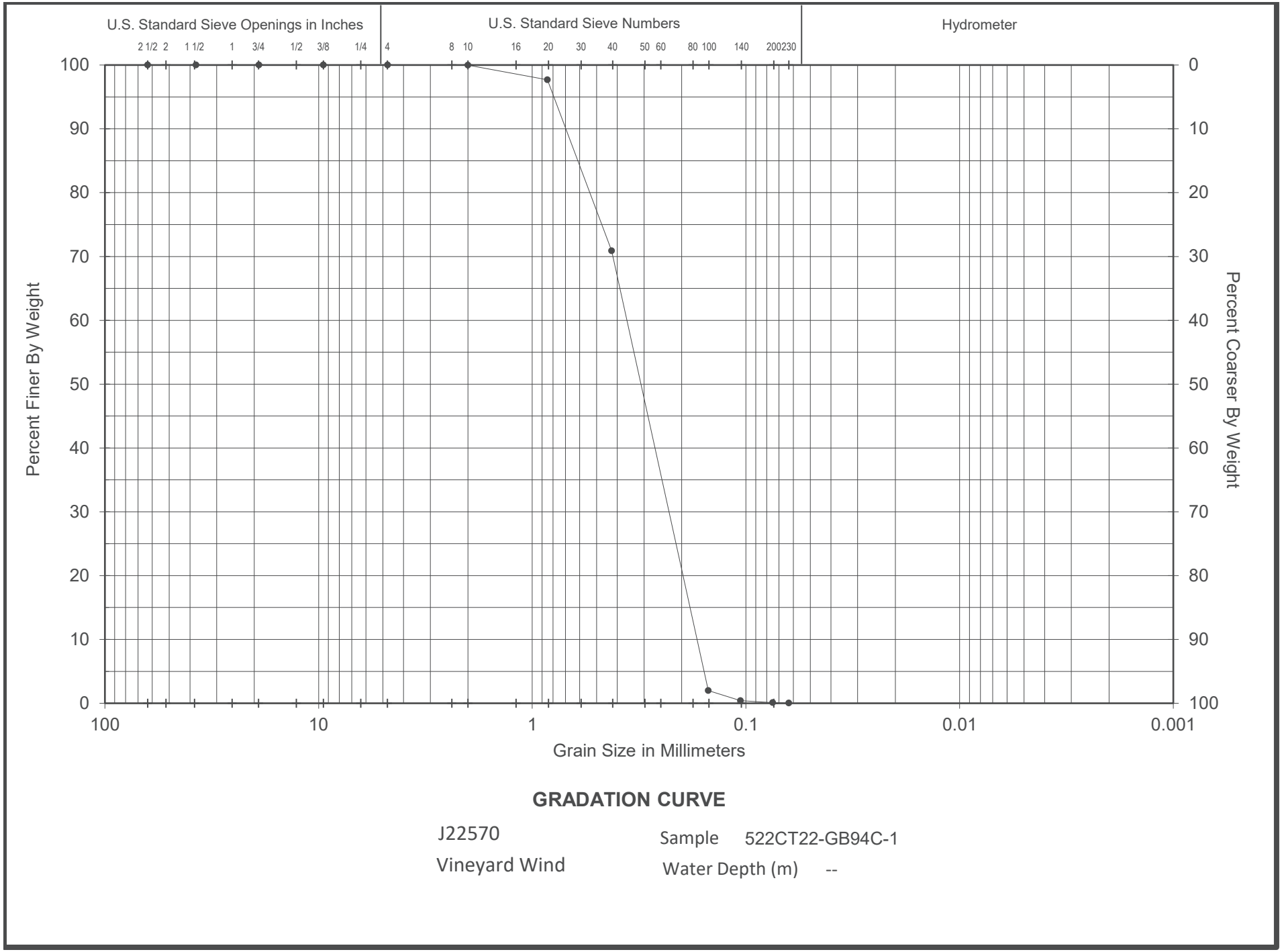
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	97.70	2.30	
0.425	40	70.88	29.12	
0.15	100	2.00	98.00	
0.106	140	0.39	99.61	
0.075	200	0.10	99.90	
0.063	230	0.04	99.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.94
% Silt and Clay	< 0.0625 mm	0.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	2.30
% Medium Sand	0.25 - 0.50 mm	26.82
% Fine Sand	0.0625 - 0.25 mm	70.84

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	70.88	0.425	2.00	0.150	0.169
D30	30	70.88	0.425	2.00	0.150	0.229
D50	50	70.88	0.425	2.00	0.150	0.310
D60	60	70.88	0.425	2.00	0.150	0.361

Uniformity Coefficient (Cu)	2.130
Coefficient of Curvature (Cc)	0.860



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB94C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB95A-1
Water Depth (m)	--

Grain Size Data

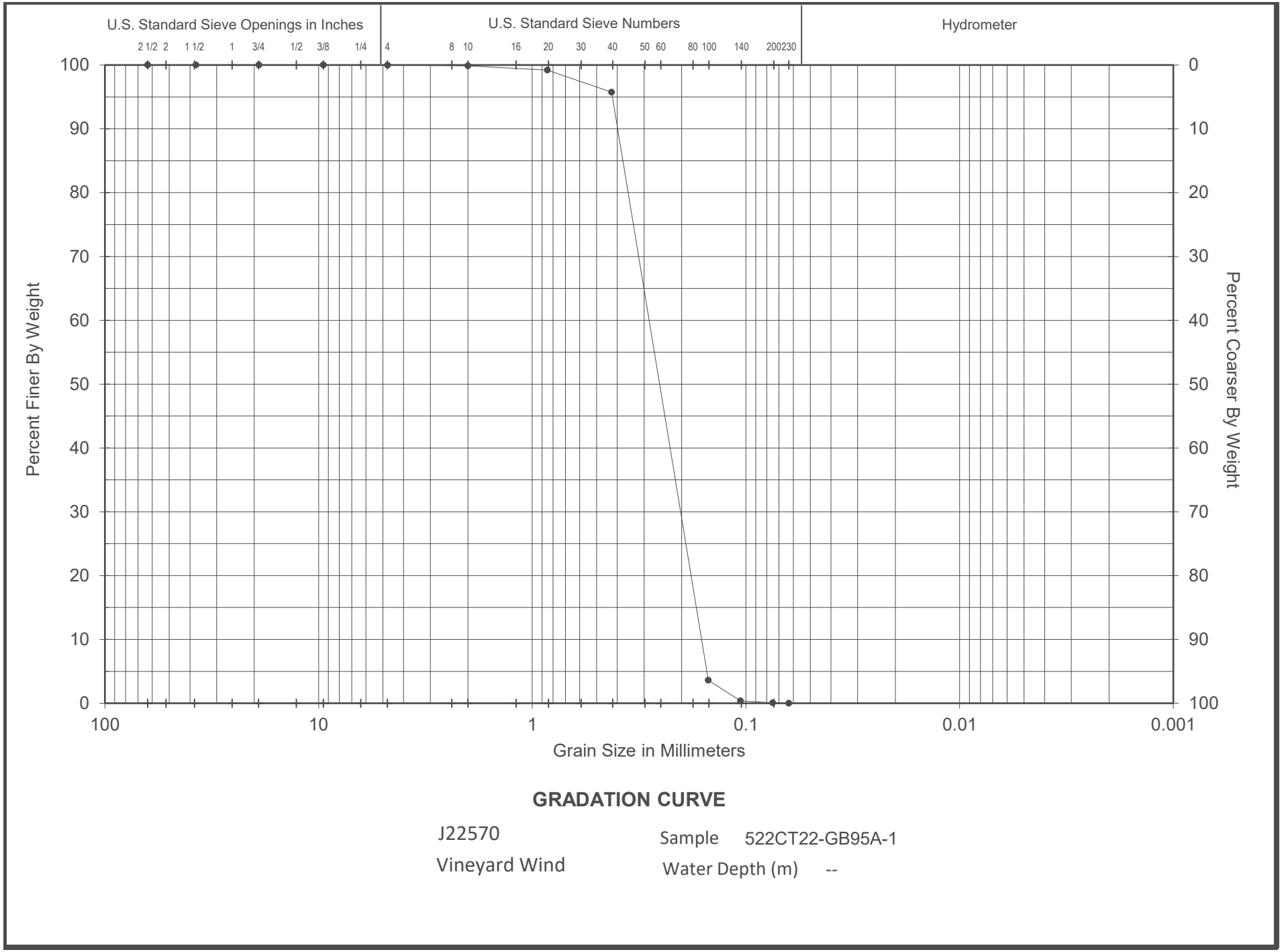
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.99	0.01	
2	10	99.88	0.12	100.00
0.85	20	99.21	0.79	
0.425	40	95.74	4.26	
0.15	100	3.59	96.41	
0.106	140	0.39	99.61	
0.075	200	0.06	99.94	
0.063	230	0.02	99.98	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.88
% Passing #230	0.02
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.12
% Sand	0.0625 - 2.00 mm	99.86
% Silt and Clay	< 0.0625 mm	0.02
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.78
% Medium Sand	0.25 - 0.50 mm	3.47
% Fine Sand	0.0625 - 0.25 mm	95.73

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	95.74	0.425	3.59	0.150	0.161
D30	30	95.74	0.425	3.59	0.150	0.202
D50	50	95.74	0.425	3.59	0.150	0.253
D60	60	95.74	0.425	3.59	0.150	0.284

Uniformity Coefficient (Cu)	1.760
Coefficient of Curvature (Cc)	0.893



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB95A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB95B-1
Water Depth (m)	--

Grain Size Data

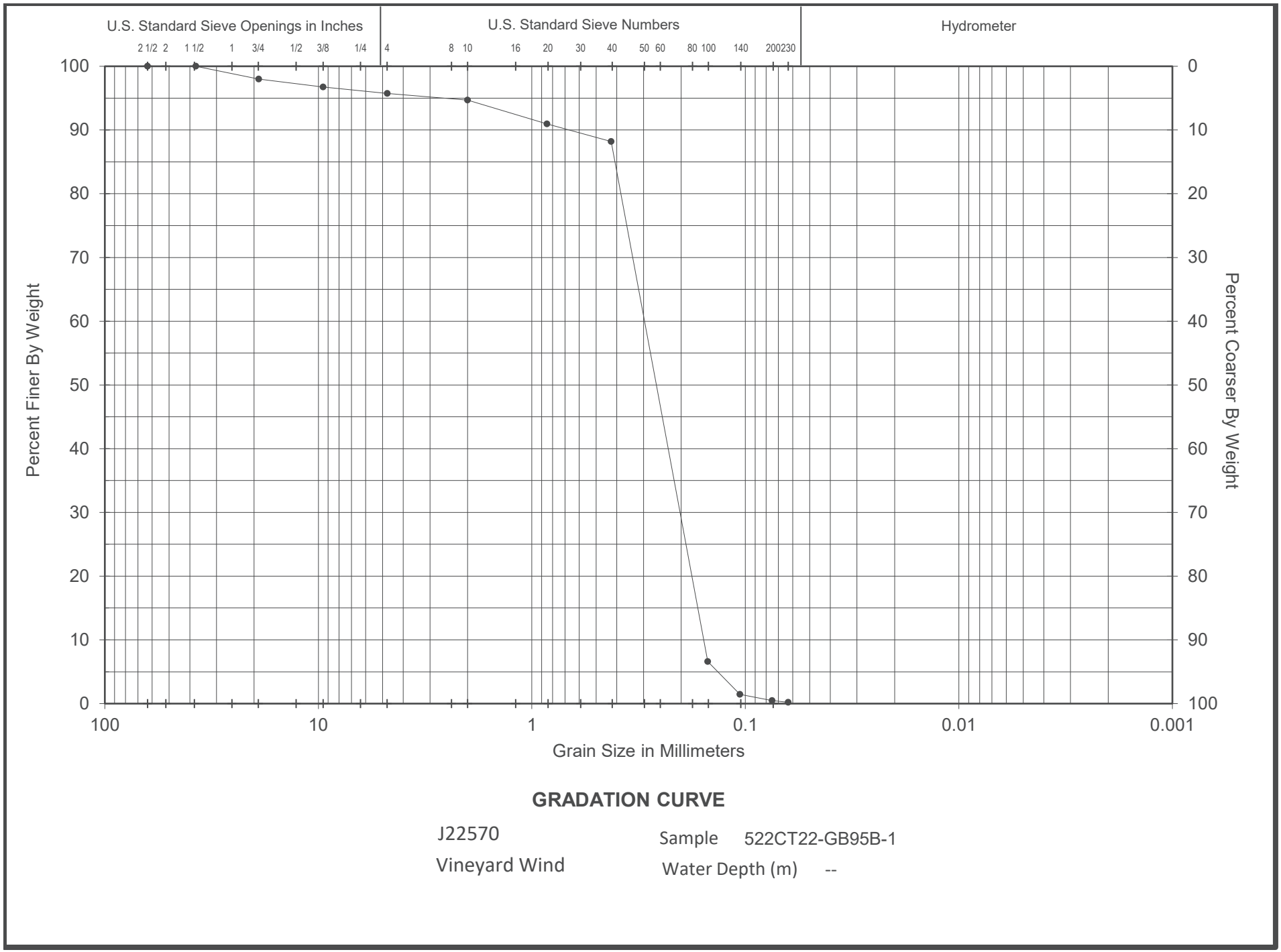
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.99	2.01	
9.5	3/8"	96.75	3.25	
4.75	4	95.73	4.27	
2	10	94.68	5.32	84.07
0.85	20	90.95	9.05	
0.425	40	88.19	11.81	
0.15	100	6.59	93.41	
0.106	140	1.45	98.55	
0.075	200	0.46	99.54	
0.063	230	0.22	99.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.68
% Passing #230	0.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.85
% Gravel-Sized Shell	> 2.00 mm	4.47
% Sand	0.0625 - 2.00 mm	94.47
% Silt and Clay	< 0.0625 mm	0.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	4.78
% Medium Sand	0.25 - 0.50 mm	2.76
% Fine Sand	0.0625 - 0.25 mm	87.97

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	88.19	0.425	6.59	0.150	0.157
D30	30	88.19	0.425	6.59	0.150	0.202
D50	50	88.19	0.425	6.59	0.150	0.261
D60	60	88.19	0.425	6.59	0.150	0.297

Uniformity Coefficient (Cu)	1.893
Coefficient of Curvature (Cc)	0.880



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB95B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB95C-1
Water Depth (m)	--

Grain Size Data

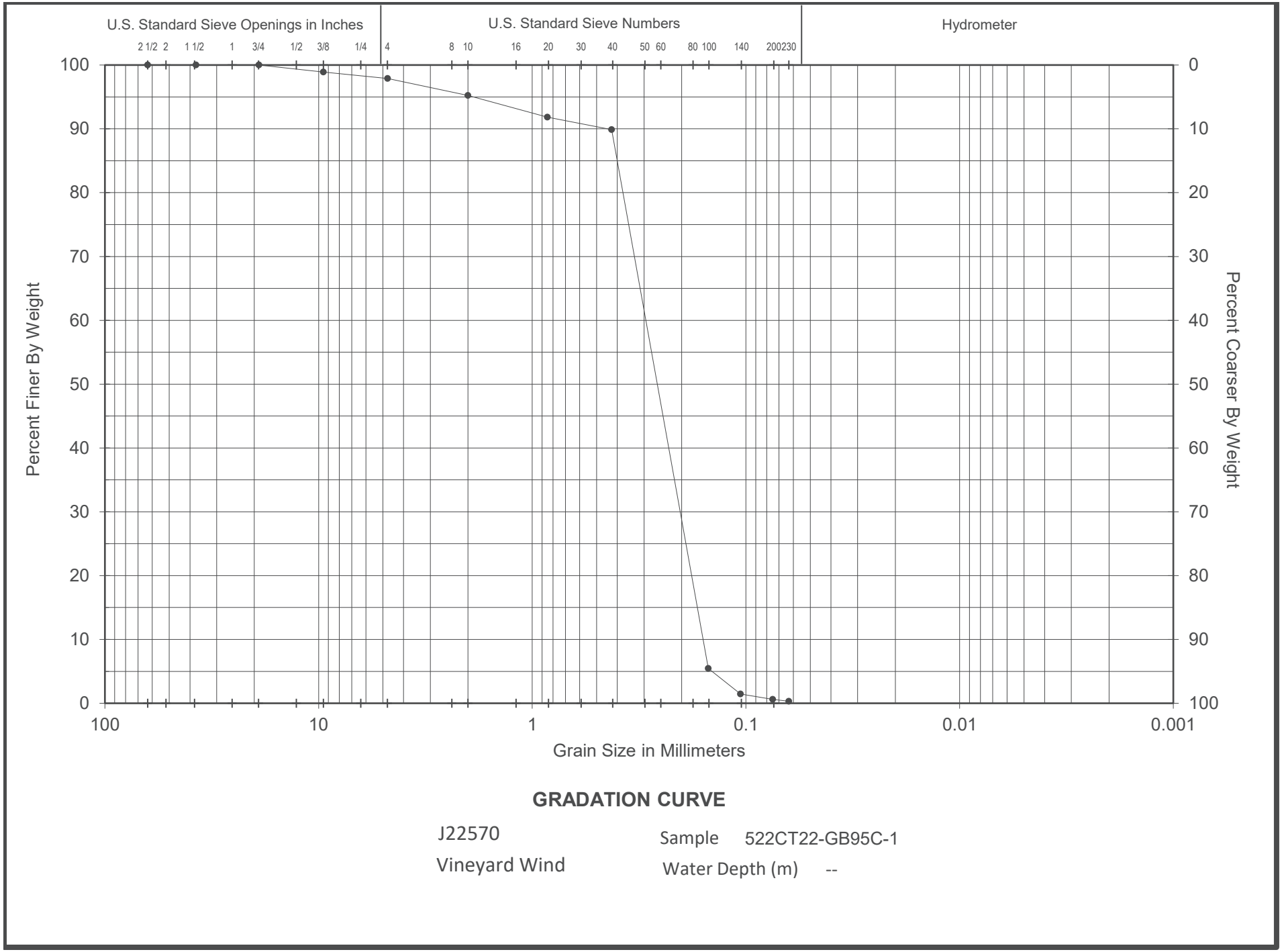
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.89	1.11	
4.75	4	97.88	2.12	
2	10	95.22	4.78	61.02
0.85	20	91.85	8.15	
0.425	40	89.86	10.14	
0.15	100	5.47	94.53	
0.106	140	1.44	98.56	
0.075	200	0.62	99.38	
0.063	230	0.32	99.68	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.22
% Passing #230	0.32
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.87
% Gravel-Sized Shell	> 2.00 mm	2.92
% Sand	0.0625 - 2.00 mm	94.90
% Silt and Clay	< 0.0625 mm	0.32
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.03
% Medium Sand	0.25 - 0.50 mm	1.98
% Fine Sand	0.0625 - 0.25 mm	89.55

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	89.86	0.425	5.47	0.150	0.159
D30	30	89.86	0.425	5.47	0.150	0.203
D50	50	89.86	0.425	5.47	0.150	0.260
D60	60	89.86	0.425	5.47	0.150	0.294

Uniformity Coefficient (Cu)	1.853
Coefficient of Curvature (Cc)	0.884



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB95C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB96A-1
Water Depth (m)	--

Grain Size Data

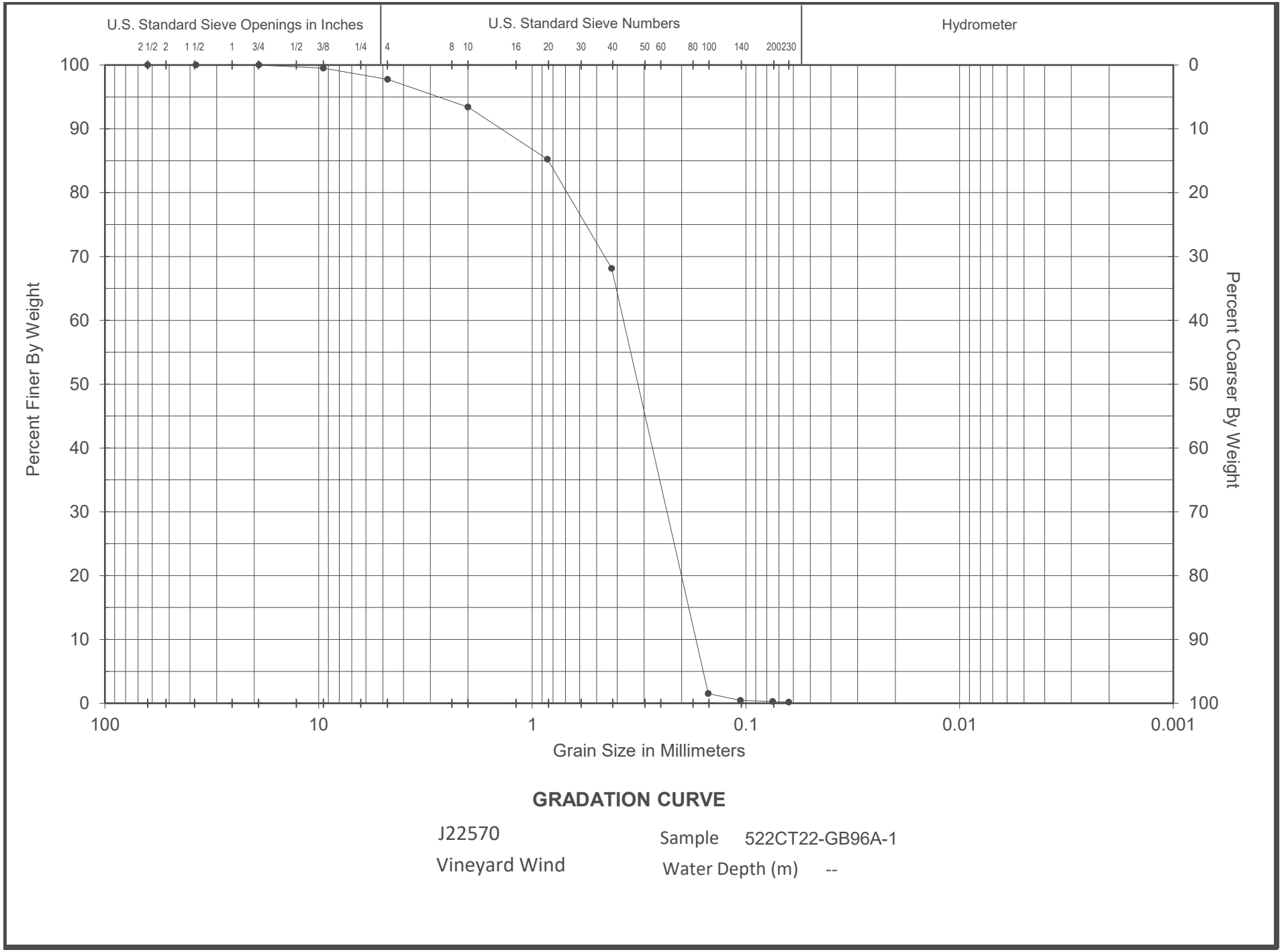
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.52	0.48	
4.75	4	97.75	2.25	
2	10	93.43	6.57	53.98
0.85	20	85.24	14.76	
0.425	40	68.13	31.87	
0.15	100	1.53	98.47	
0.106	140	0.45	99.55	
0.075	200	0.26	99.74	
0.063	230	0.17	99.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.43
% Passing #230	0.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	3.02
% Gravel-Sized Shell	> 2.00 mm	3.55
% Sand	0.0625 - 2.00 mm	93.25
% Silt and Clay	< 0.0625 mm	0.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	12.51
% Medium Sand	0.25 - 0.50 mm	17.11
% Fine Sand	0.0625 - 0.25 mm	67.96

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	68.13	0.425	1.53	0.150	0.171
D30	30	68.13	0.425	1.53	0.150	0.234
D50	50	68.13	0.425	1.53	0.150	0.320
D60	60	68.13	0.425	1.53	0.150	0.374

Uniformity Coefficient (Cu)	2.186
Coefficient of Curvature (Cc)	0.855



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB96A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB96B-1
Water Depth (m)	--

Grain Size Data

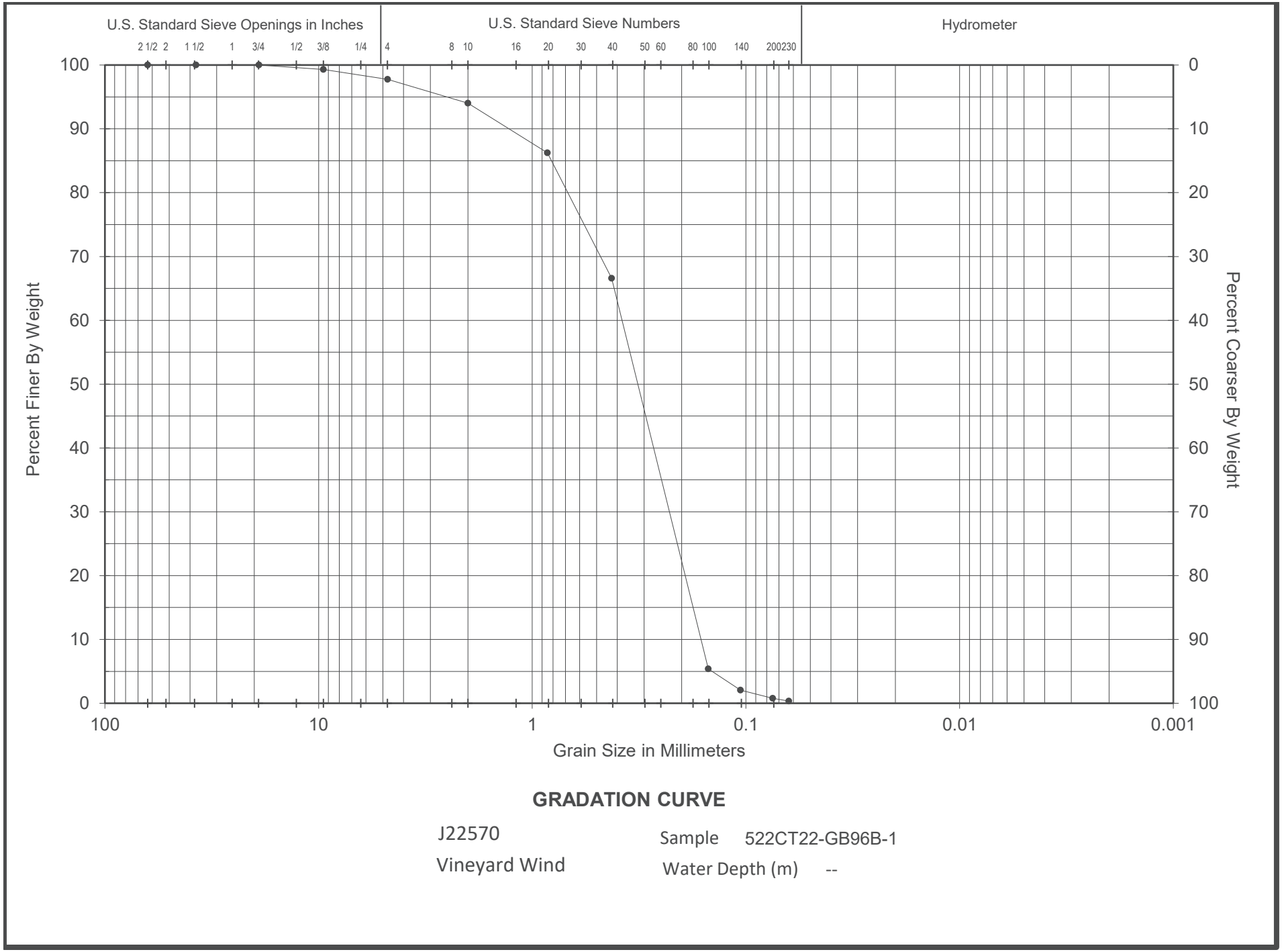
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.31	0.69	
4.75	4	97.75	2.25	
2	10	94.03	5.97	68.93
0.85	20	86.25	13.75	
0.425	40	66.59	33.41	
0.15	100	5.39	94.61	
0.106	140	2.06	97.94	
0.075	200	0.76	99.24	
0.063	230	0.34	99.66	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.03
% Passing #230	0.34
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.85
% Gravel-Sized Shell	> 2.00 mm	4.11
% Sand	0.0625 - 2.00 mm	93.69
% Silt and Clay	< 0.0625 mm	0.34
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	11.50
% Medium Sand	0.25 - 0.50 mm	19.66
% Fine Sand	0.0625 - 0.25 mm	66.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	66.59	0.425	5.39	0.150	0.162
D30	30	66.59	0.425	5.39	0.150	0.228
D50	50	66.59	0.425	5.39	0.150	0.320
D60	60	66.59	0.425	5.39	0.150	0.380

Uniformity Coefficient (Cu)	2.342
Coefficient of Curvature (Cc)	0.844



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB96B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB96C-1
Water Depth (m)	--

Grain Size Data

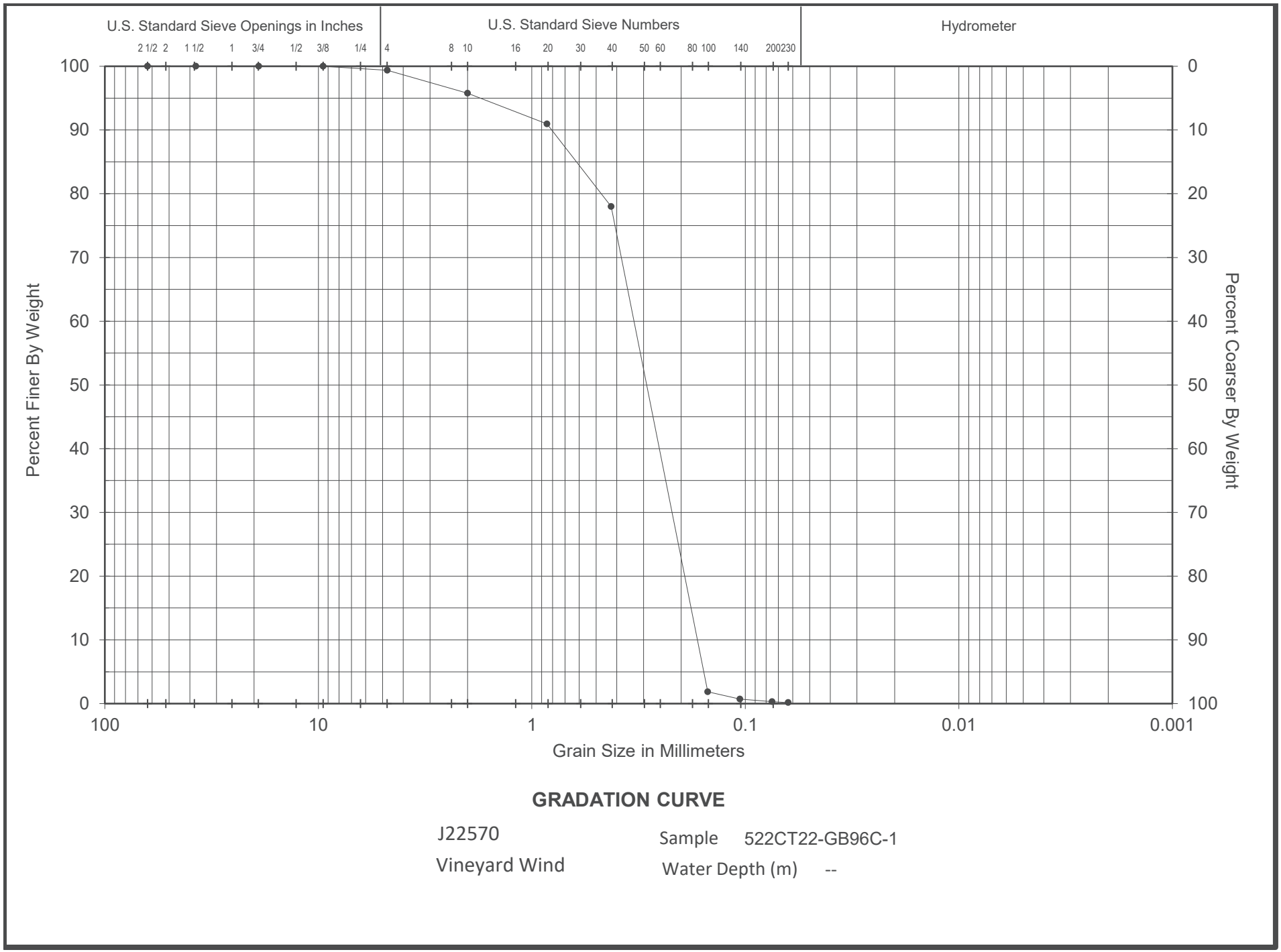
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.38	0.62	
2	10	95.76	4.24	48.70
0.85	20	90.94	9.06	
0.425	40	77.98	22.02	
0.15	100	1.85	98.15	
0.106	140	0.70	99.30	
0.075	200	0.29	99.71	
0.063	230	0.16	99.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	95.76
% Passing #230	0.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.18
% Gravel-Sized Shell	> 2.00 mm	2.07
% Sand	0.0625 - 2.00 mm	95.60
% Silt and Clay	< 0.0625 mm	0.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	8.44
% Medium Sand	0.25 - 0.50 mm	12.96
% Fine Sand	0.0625 - 0.25 mm	77.82

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	77.98	0.425	1.85	0.150	0.168
D30	30	77.98	0.425	1.85	0.150	0.220
D50	50	77.98	0.425	1.85	0.150	0.290
D60	60	77.98	0.425	1.85	0.150	0.332

Uniformity Coefficient (Cu)	1.982
Coefficient of Curvature (Cc)	0.872



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB96C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB97A-1
Water Depth (m)	--

Grain Size Data

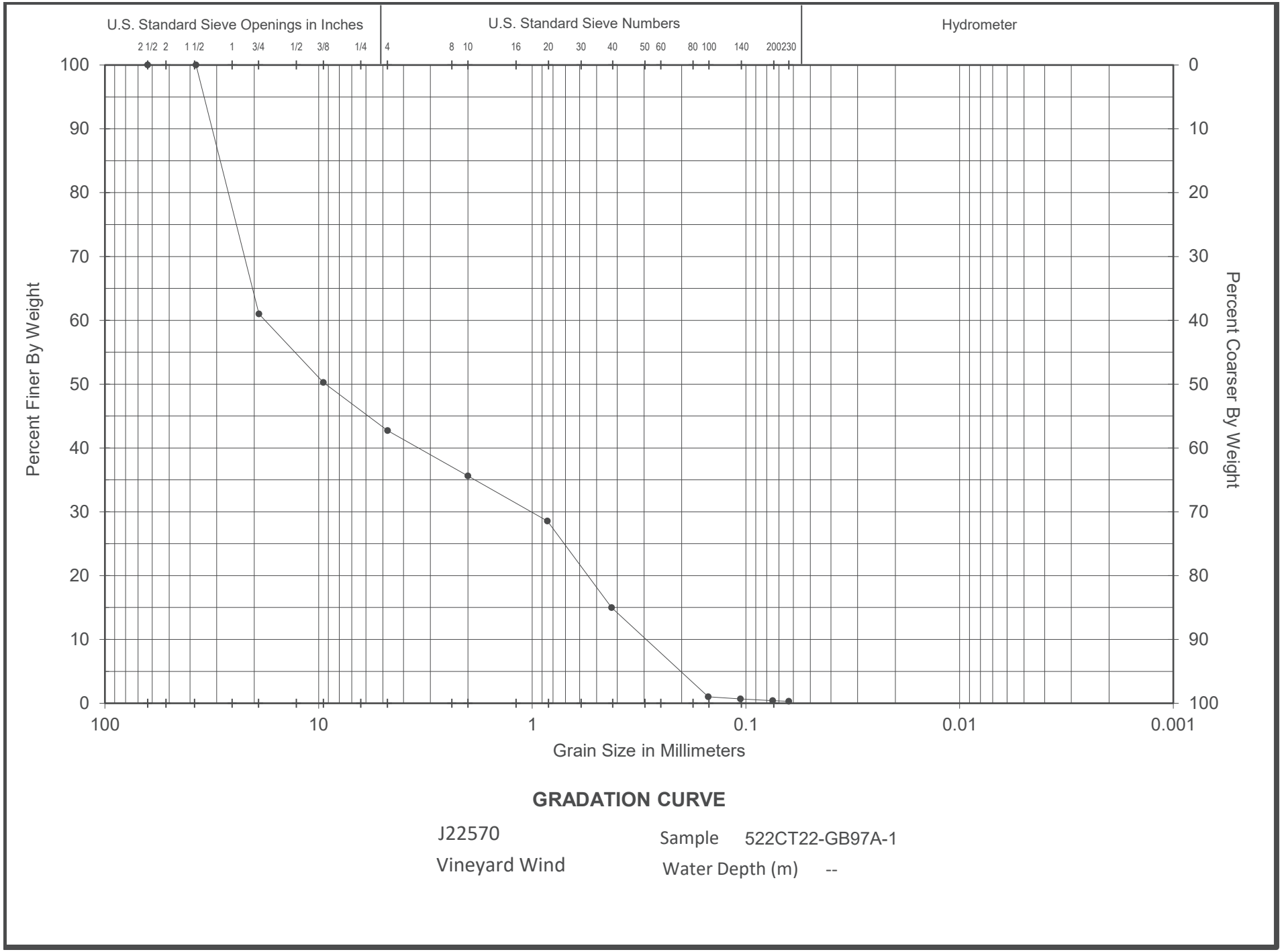
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	61.01	38.99	
9.5	3/8"	50.26	49.74	
4.75	4	42.71	57.29	
2	10	35.61	64.39	11.13
0.85	20	28.56	71.44	
0.425	40	14.97	85.03	
0.15	100	1.03	98.97	
0.106	140	0.67	99.33	
0.075	200	0.41	99.59	
0.063	230	0.30	99.70	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	35.61
% Passing #230	0.30
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	57.22
% Gravel-Sized Shell	> 2.00 mm	7.17
% Sand	0.0625 - 2.00 mm	35.31
% Silt and Clay	< 0.0625 mm	0.30
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.15
% Medium Sand	0.25 - 0.50 mm	13.59
% Fine Sand	0.0625 - 0.25 mm	14.67

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.97	0.425	1.03	0.150	0.293
D30	30	35.61	2.000	28.56	0.850	1.013
D50	50	50.26	9.500	42.71	4.750	9.278
D60	60	61.01	19.000	50.26	9.500	17.806

Uniformity Coefficient (Cu)	60.718
Coefficient of Curvature (Cc)	0.196



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB97A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB97B-1
Water Depth (m)	--

Grain Size Data

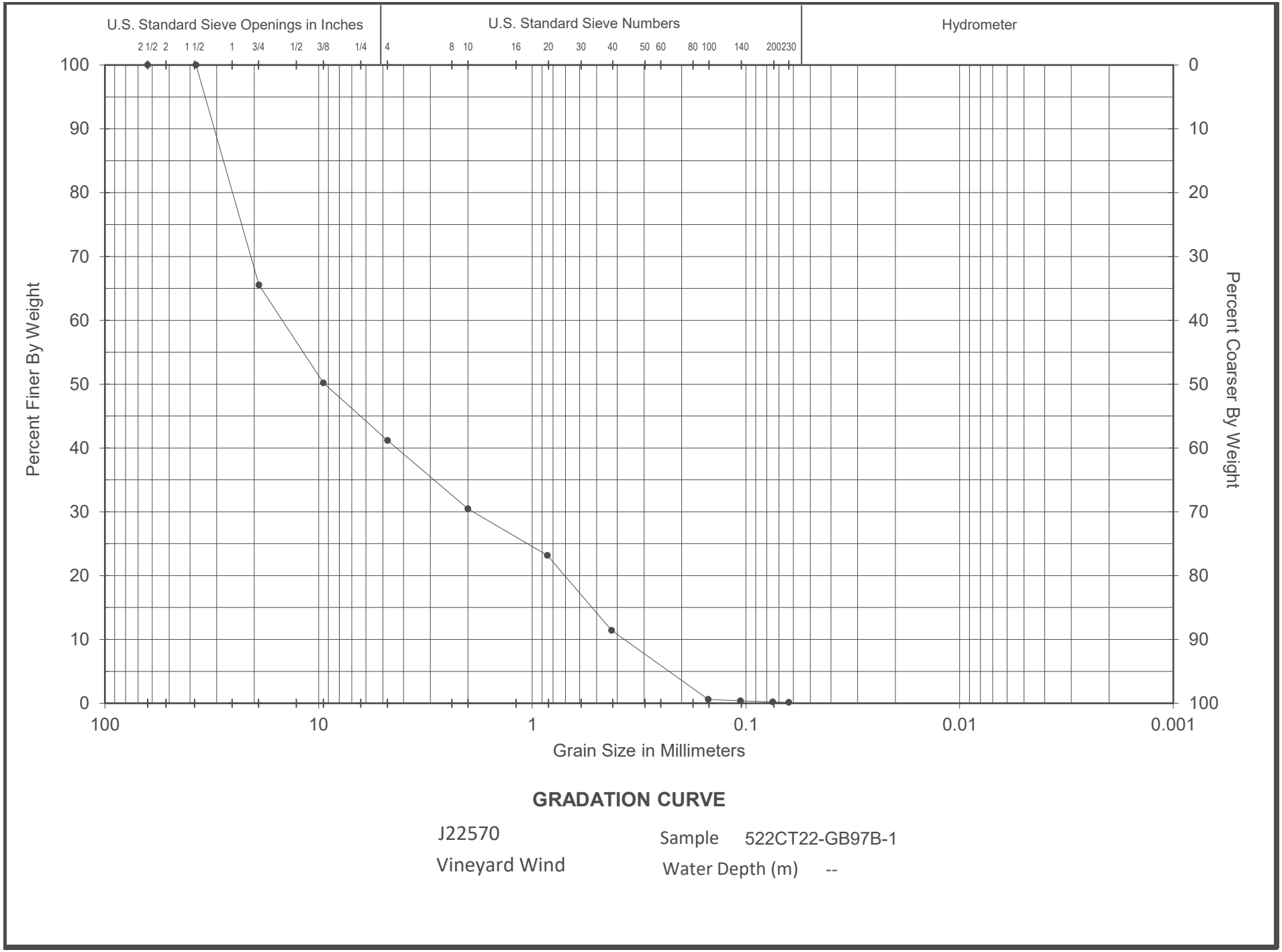
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	65.53	34.47	
9.5	3/8"	50.21	49.79	
4.75	4	41.16	58.84	
2	10	30.46	69.54	12.40
0.85	20	23.16	76.84	
0.425	40	11.40	88.60	
0.15	100	0.60	99.40	
0.106	140	0.39	99.61	
0.075	200	0.21	99.79	
0.063	230	0.15	99.85	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	30.46
% Passing #230	0.15
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	60.92
% Gravel-Sized Shell	> 2.00 mm	8.63
% Sand	0.0625 - 2.00 mm	30.31
% Silt and Clay	< 0.0625 mm	0.15
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	18.00
% Medium Sand	0.25 - 0.50 mm	11.76
% Fine Sand	0.0625 - 0.25 mm	11.25

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.40	0.425	0.60	0.150	0.371
D30	30	30.46	2.000	23.16	0.850	1.895
D50	50	50.21	9.500	41.16	4.750	9.350
D60	60	65.53	19.000	50.21	9.500	14.794

Uniformity Coefficient (Cu)	39.835
Coefficient of Curvature (Cc)	0.654



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB97B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB97C-1
Water Depth (m)	--

Grain Size Data

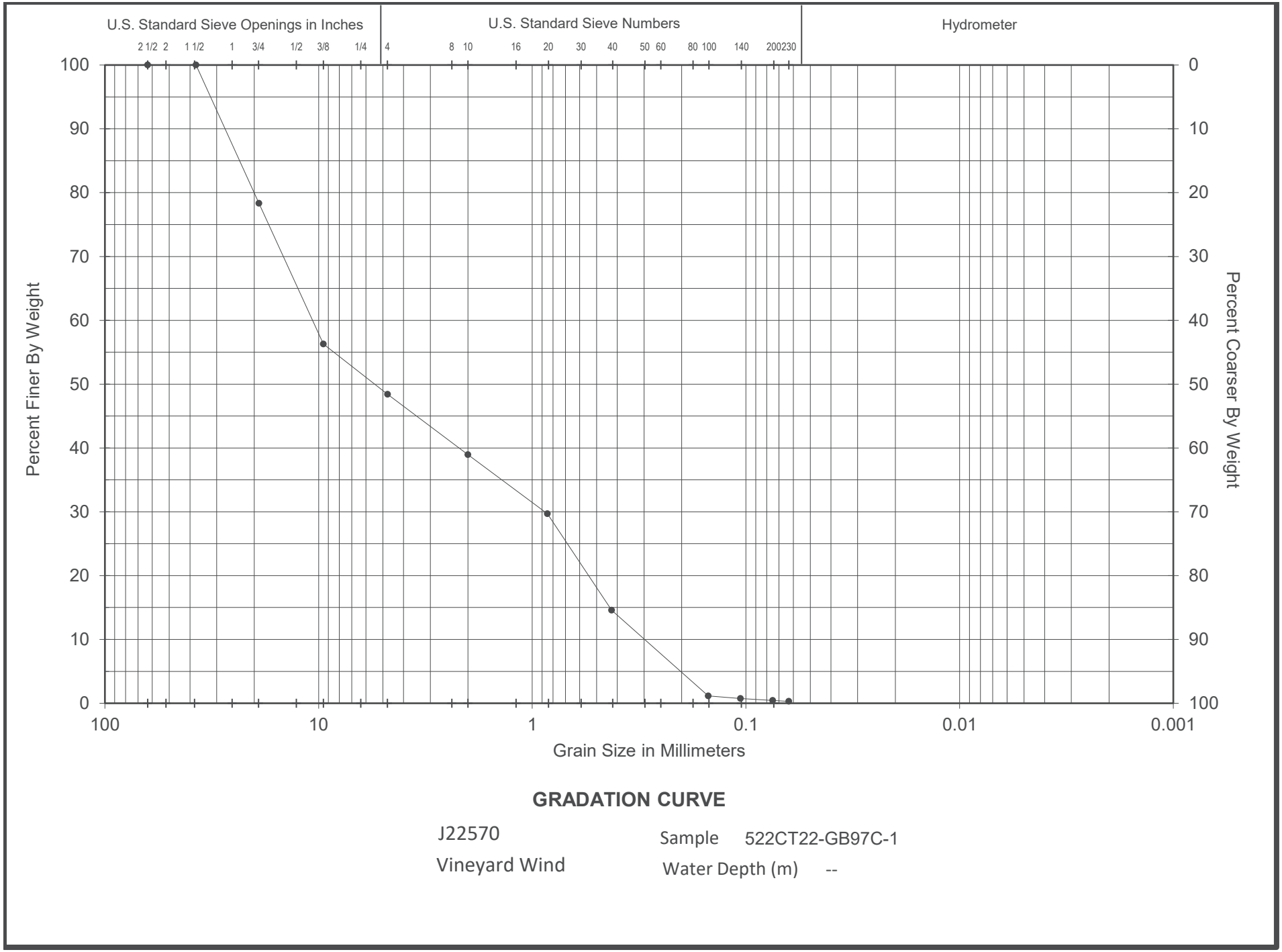
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	78.35	21.65	
9.5	3/8"	56.29	43.71	
4.75	4	48.40	51.60	
2	10	38.94	61.06	26.47
0.85	20	29.68	70.32	
0.425	40	14.58	85.42	
0.15	100	1.15	98.85	
0.106	140	0.74	99.26	
0.075	200	0.45	99.55	
0.063	230	0.29	99.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	38.94
% Passing #230	0.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	44.89
% Gravel-Sized Shell	> 2.00 mm	16.17
% Sand	0.0625 - 2.00 mm	38.65
% Silt and Clay	< 0.0625 mm	0.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	18.71
% Medium Sand	0.25 - 0.50 mm	15.10
% Fine Sand	0.0625 - 0.25 mm	14.29

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.58	0.425	1.15	0.150	0.298
D30	30	38.94	2.000	29.68	0.850	0.875
D50	50	56.29	9.500	48.40	4.750	5.468
D60	60	78.35	19.000	56.29	9.500	10.674

Uniformity Coefficient (Cu)	35.829
Coefficient of Curvature (Cc)	0.241



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB97C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB98A-3
Water Depth (m)	--

Grain Size Data

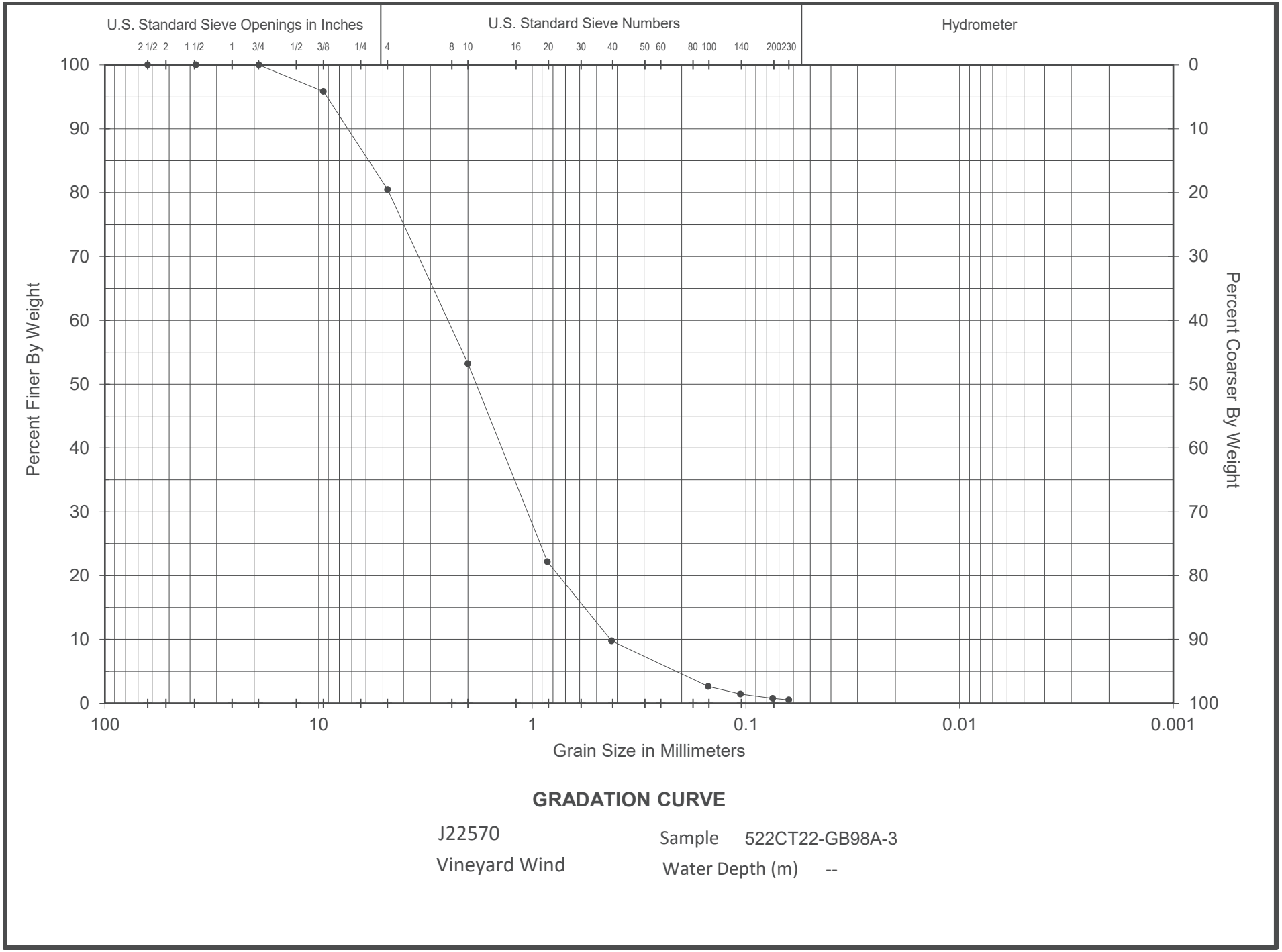
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	95.88	4.12	
4.75	4	80.48	19.52	
2	10	53.21	46.79	61.61
0.85	20	22.18	77.82	
0.425	40	9.76	90.24	
0.15	100	2.62	97.38	
0.106	140	1.44	98.56	
0.075	200	0.79	99.21	
0.063	230	0.53	99.47	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	53.21
% Passing #230	0.53
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	17.96
% Gravel-Sized Shell	> 2.00 mm	28.83
% Sand	0.0625 - 2.00 mm	52.68
% Silt and Clay	< 0.0625 mm	0.53
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	58.29
% Medium Sand	0.25 - 0.50 mm	12.42
% Fine Sand	0.0625 - 0.25 mm	9.23

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	22.18	0.850	9.76	0.425	0.431
D30	30	53.21	2.000	22.18	0.850	1.055
D50	50	53.21	2.000	22.18	0.850	1.831
D60	60	80.48	4.750	53.21	2.000	2.481

Uniformity Coefficient (Cu)	5.760
Coefficient of Curvature (Cc)	1.041



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB98A-3

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB098B
Water Depth (m)	--

Grain Size Data

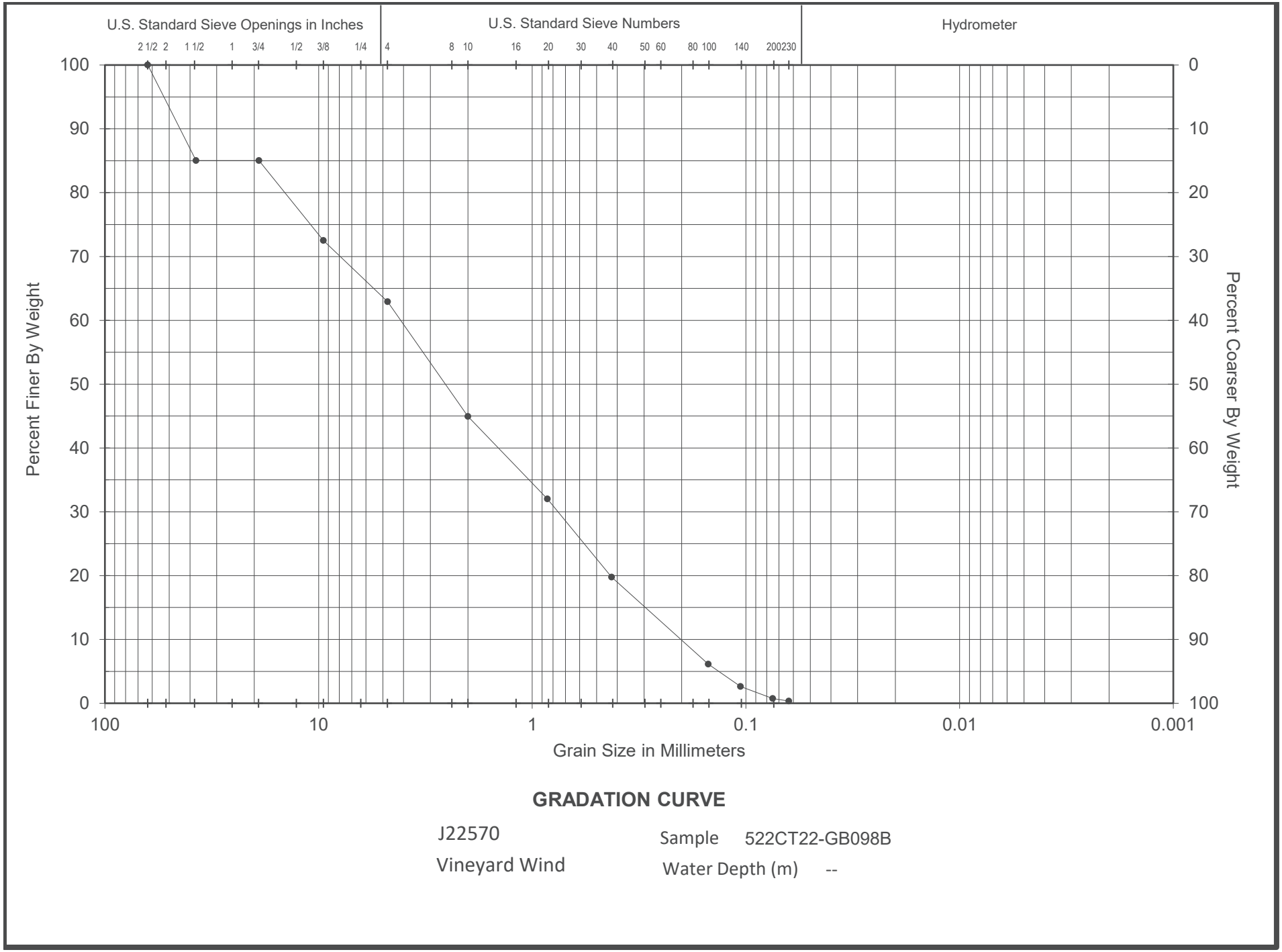
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	85.04	14.96	
19	3/4"	85.04	14.96	
9.5	3/8"	72.53	27.47	
4.75	4	62.91	37.09	
2	10	44.95	55.05	53.66
0.85	20	32.02	67.98	
0.425	40	19.77	80.23	
0.15	100	6.15	93.85	
0.106	140	2.63	97.37	
0.075	200	0.75	99.25	
0.063	230	0.35	99.65	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	44.95
% Passing #230	0.35
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	25.51
% Gravel-Sized Shell	> 2.00 mm	29.54
% Sand	0.0625 - 2.00 mm	44.61
% Silt and Clay	< 0.0625 mm	0.35
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	30.89
% Medium Sand	0.25 - 0.50 mm	12.25
% Fine Sand	0.0625 - 0.25 mm	19.42

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	19.77	0.425	6.15	0.150	0.201
D30	30	32.02	0.850	19.77	0.425	0.758
D50	50	62.91	4.750	44.95	2.000	2.550
D60	60	62.91	4.750	44.95	2.000	4.129

Uniformity Coefficient (Cu)	20.501
Coefficient of Curvature (Cc)	0.692



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB098B

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB98C-3
Water Depth (m)	--

Grain Size Data

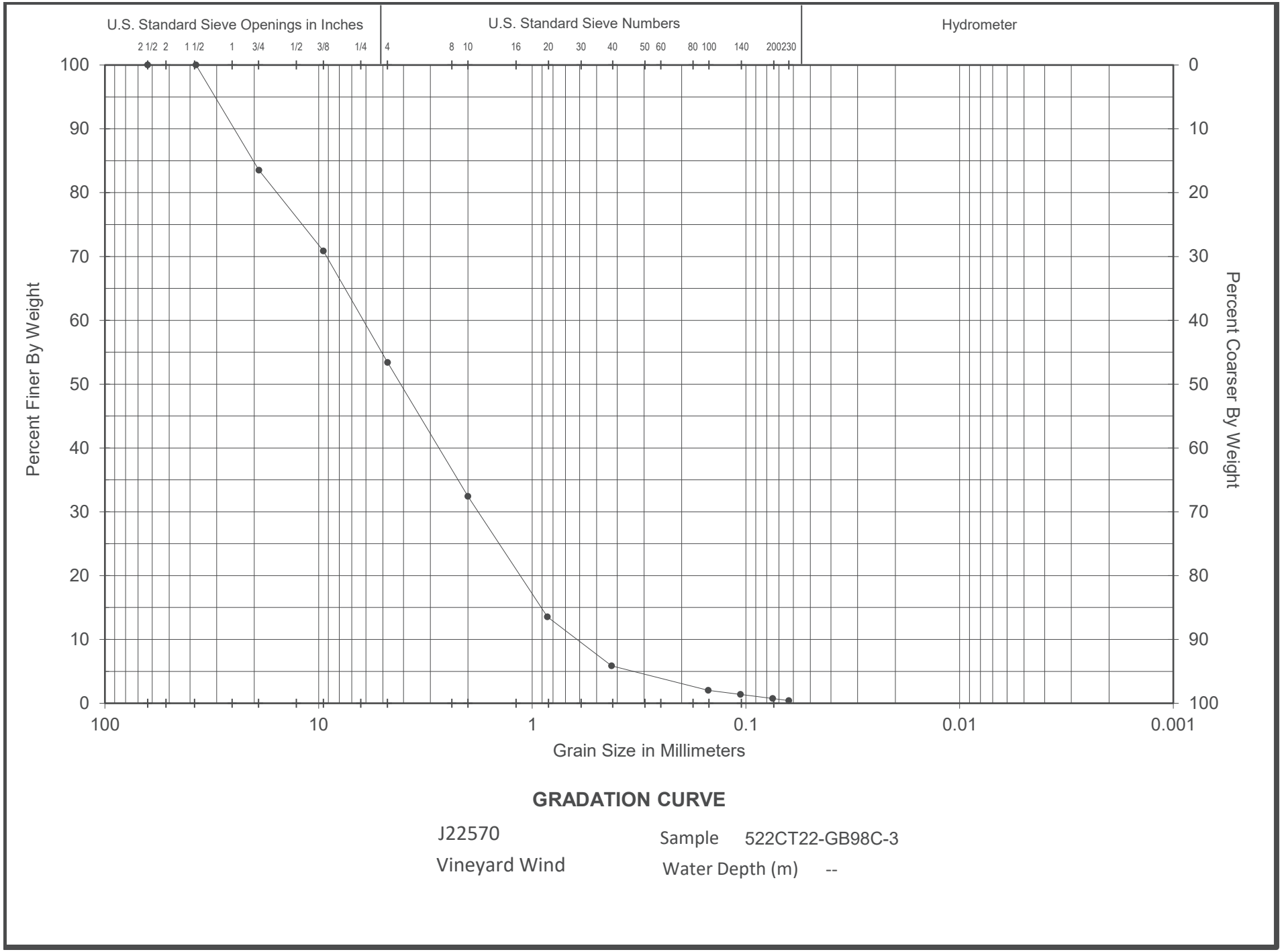
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	83.51	16.49	
9.5	3/8"	70.87	29.13	
4.75	4	53.40	46.60	
2	10	32.44	67.56	75.59
0.85	20	13.54	86.46	
0.425	40	5.86	94.14	
0.15	100	2.01	97.99	
0.106	140	1.39	98.61	
0.075	200	0.73	99.27	
0.063	230	0.42	99.58	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	32.44
% Passing #230	0.42
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	16.49
% Gravel-Sized Shell	> 2.00 mm	51.07
% Sand	0.0625 - 2.00 mm	32.02
% Silt and Clay	< 0.0625 mm	0.42
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	39.86
% Medium Sand	0.25 - 0.50 mm	7.68
% Fine Sand	0.0625 - 0.25 mm	5.45

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	13.54	0.850	5.86	0.425	0.617
D30	30	32.44	2.000	13.54	0.850	1.791
D50	50	53.40	4.750	32.44	2.000	4.128
D60	60	70.87	9.500	53.40	4.750	6.171

Uniformity Coefficient (Cu)	9.995
Coefficient of Curvature (Cc)	0.842



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB98C-3

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB99A-1
Water Depth (m)	--

Grain Size Data

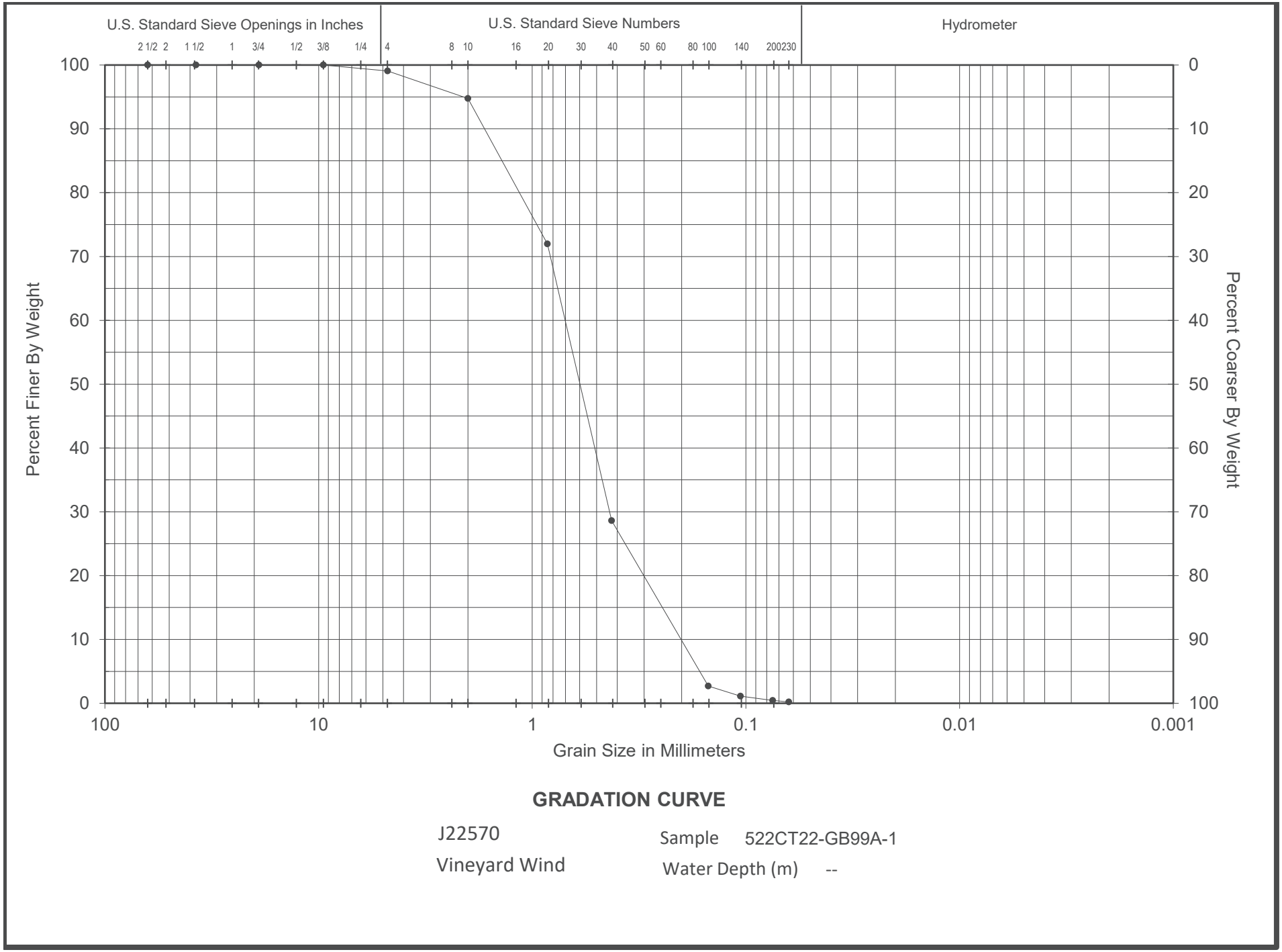
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.06	0.94	
2	10	94.77	5.23	13.50
0.85	20	71.96	28.04	
0.425	40	28.63	71.37	
0.15	100	2.69	97.31	
0.106	140	1.13	98.87	
0.075	200	0.43	99.57	
0.063	230	0.22	99.78	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.77
% Passing #230	0.22
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.52
% Gravel-Sized Shell	> 2.00 mm	0.71
% Sand	0.0625 - 2.00 mm	94.55
% Silt and Clay	< 0.0625 mm	0.22
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	27.10
% Medium Sand	0.25 - 0.50 mm	43.33
% Fine Sand	0.0625 - 0.25 mm	28.41

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	28.63	0.425	2.69	0.150	0.201
D30	30	71.96	0.850	28.63	0.425	0.434
D50	50	71.96	0.850	28.63	0.425	0.598
D60	60	71.96	0.850	28.63	0.425	0.702

Uniformity Coefficient (Cu)	3.489
Coefficient of Curvature (Cc)	1.336



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB99A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB99B-1
Water Depth (m)	--

Grain Size Data

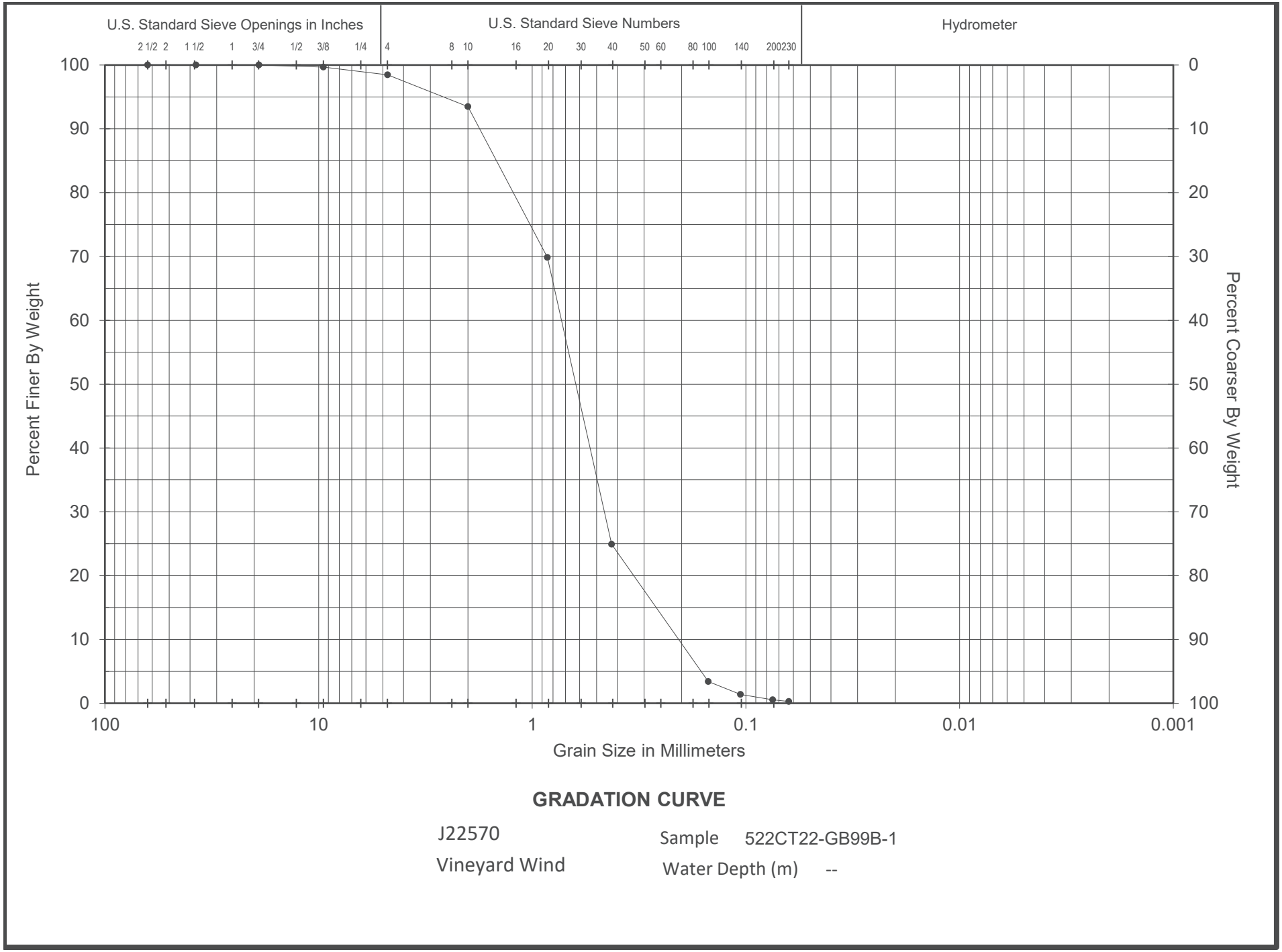
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.67	0.33	
4.75	4	98.45	1.55	
2	10	93.47	6.53	34.31
0.85	20	69.86	30.14	
0.425	40	24.90	75.10	
0.15	100	3.42	96.58	
0.106	140	1.40	98.60	
0.075	200	0.54	99.46	
0.063	230	0.28	99.72	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.47
% Passing #230	0.28
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.29
% Gravel-Sized Shell	> 2.00 mm	2.24
% Sand	0.0625 - 2.00 mm	93.18
% Silt and Clay	< 0.0625 mm	0.28
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.59
% Medium Sand	0.25 - 0.50 mm	44.96
% Fine Sand	0.0625 - 0.25 mm	24.62

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.90	0.425	3.42	0.150	0.206
D30	30	69.86	0.850	24.90	0.425	0.460
D50	50	69.86	0.850	24.90	0.425	0.626
D60	60	69.86	0.850	24.90	0.425	0.730

Uniformity Coefficient (Cu)	3.538
Coefficient of Curvature (Cc)	1.403



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB99B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB99C-1
Water Depth (m)	--

Grain Size Data

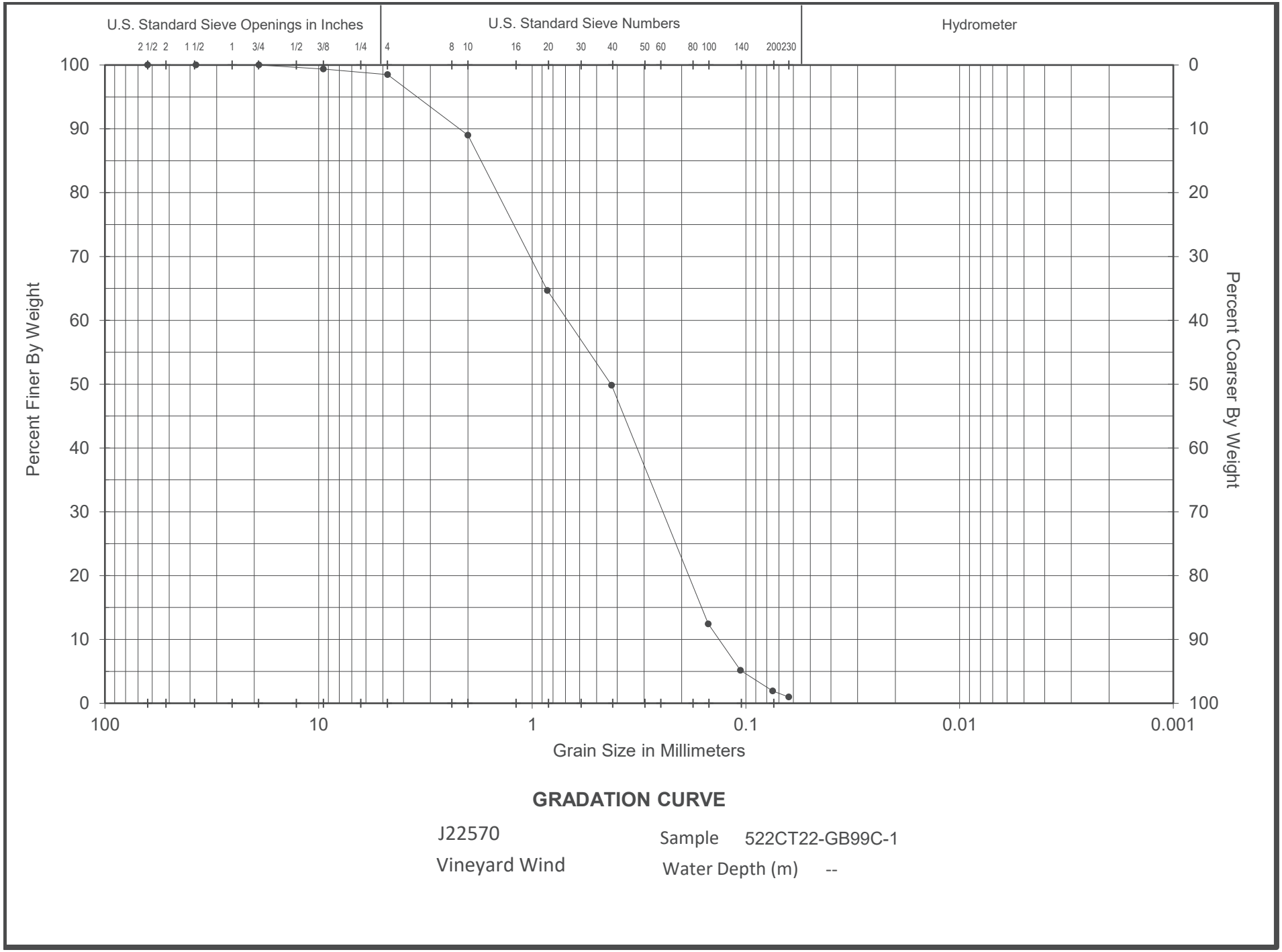
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.37	0.63	
4.75	4	98.51	1.49	
2	10	88.99	11.01	48.11
0.85	20	64.68	35.32	
0.425	40	49.81	50.19	
0.15	100	12.43	87.57	
0.106	140	5.15	94.85	
0.075	200	1.92	98.08	
0.063	230	0.98	99.02	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	88.99
% Passing #230	0.98
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.71
% Gravel-Sized Shell	> 2.00 mm	5.30
% Sand	0.0625 - 2.00 mm	88.02
% Silt and Clay	< 0.0625 mm	0.98
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	33.83
% Medium Sand	0.25 - 0.50 mm	14.88
% Fine Sand	0.0625 - 0.25 mm	48.83

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.43	0.150	5.15	0.106	0.134
D30	30	49.81	0.425	12.43	0.150	0.245
D50	50	64.68	0.850	49.81	0.425	0.429
D60	60	64.68	0.850	49.81	0.425	0.683

Uniformity Coefficient (Cu)	5.115
Coefficient of Curvature (Cc)	0.656



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB99C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB100A-1
Water Depth (m)	--

Grain Size Data

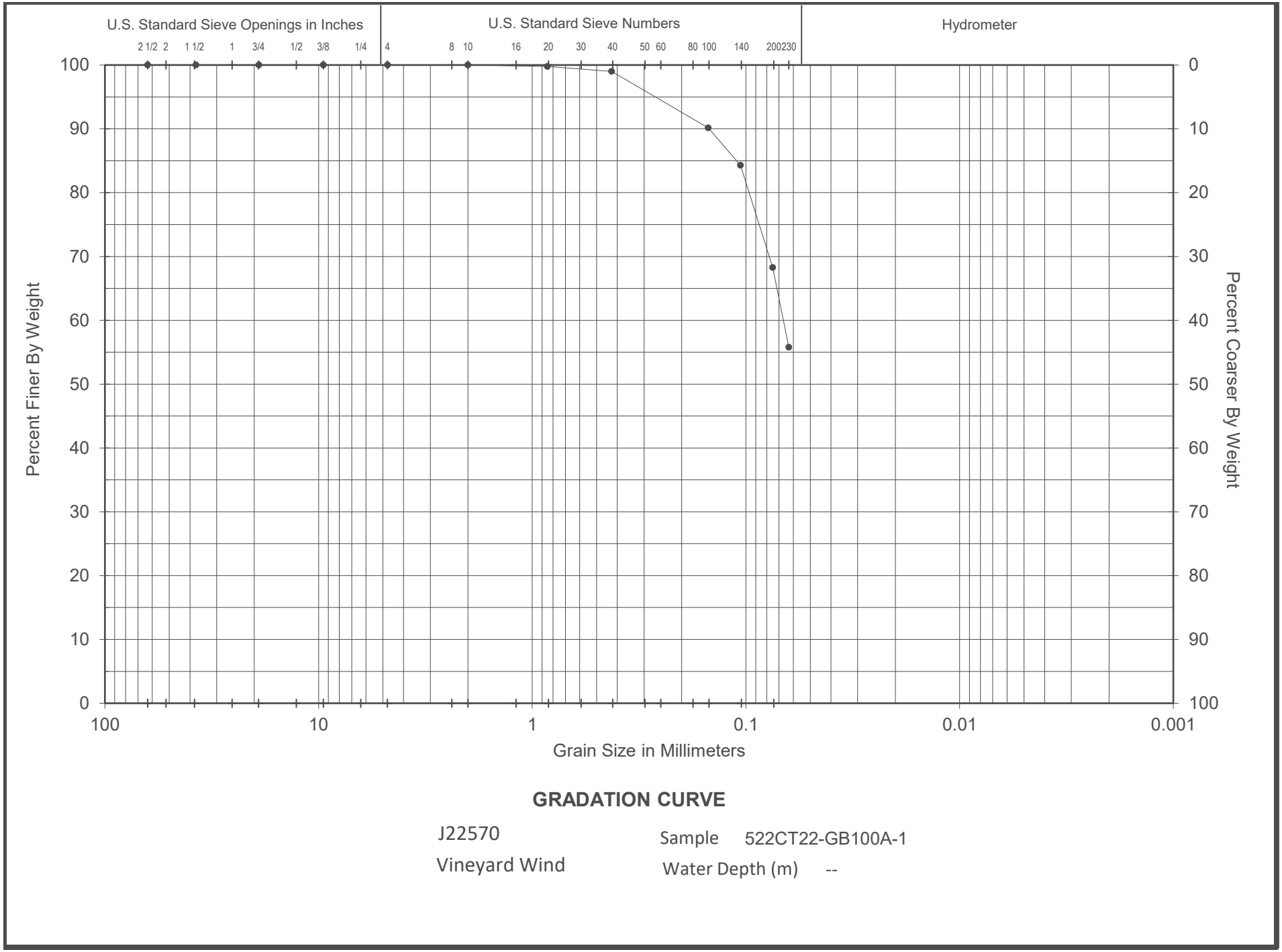
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.79	0.21	
0.425	40	99.01	0.99	
0.15	100	90.13	9.87	
0.106	140	84.30	15.70	
0.075	200	68.28	31.72	
0.063	230	55.78	44.22	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	55.78
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	44.22
% Silt and Clay	< 0.0625 mm	55.78
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.21
% Medium Sand	0.25 - 0.50 mm	0.78
% Fine Sand	0.0625 - 0.25 mm	43.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	55.78	0.063	#N/A	#N/A	#N/A
D30	30	55.78	0.063	#N/A	#N/A	#N/A
D50	50	55.78	0.063	#N/A	#N/A	#N/A
D60	60	68.28	0.075	55.78	0.063	0.067

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB100A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB100B-1
Water Depth (m)	--

Grain Size Data

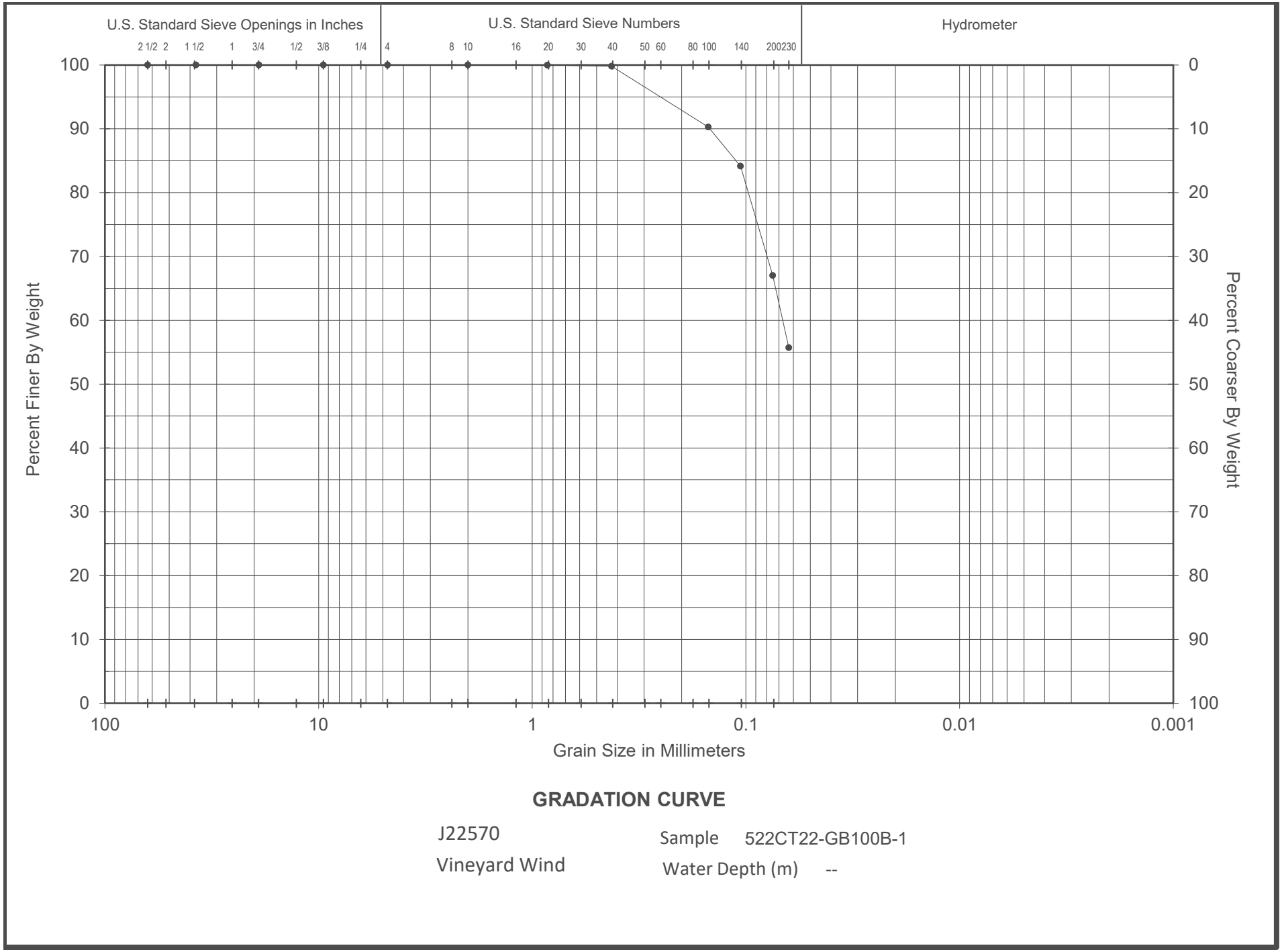
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.97	0.03	
0.425	40	99.82	0.18	
0.15	100	90.29	9.71	
0.106	140	84.15	15.85	
0.075	200	67.02	32.98	
0.063	230	55.71	44.29	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	55.71
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	44.29
% Silt and Clay	< 0.0625 mm	55.71
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.03
% Medium Sand	0.25 - 0.50 mm	0.15
% Fine Sand	0.0625 - 0.25 mm	44.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	55.71	0.063	#N/A	#N/A	#N/A
D30	30	55.71	0.063	#N/A	#N/A	#N/A
D50	50	55.71	0.063	#N/A	#N/A	#N/A
D60	60	67.02	0.075	55.71	0.063	0.067

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB100B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB100C-1
Water Depth (m)	--

Grain Size Data

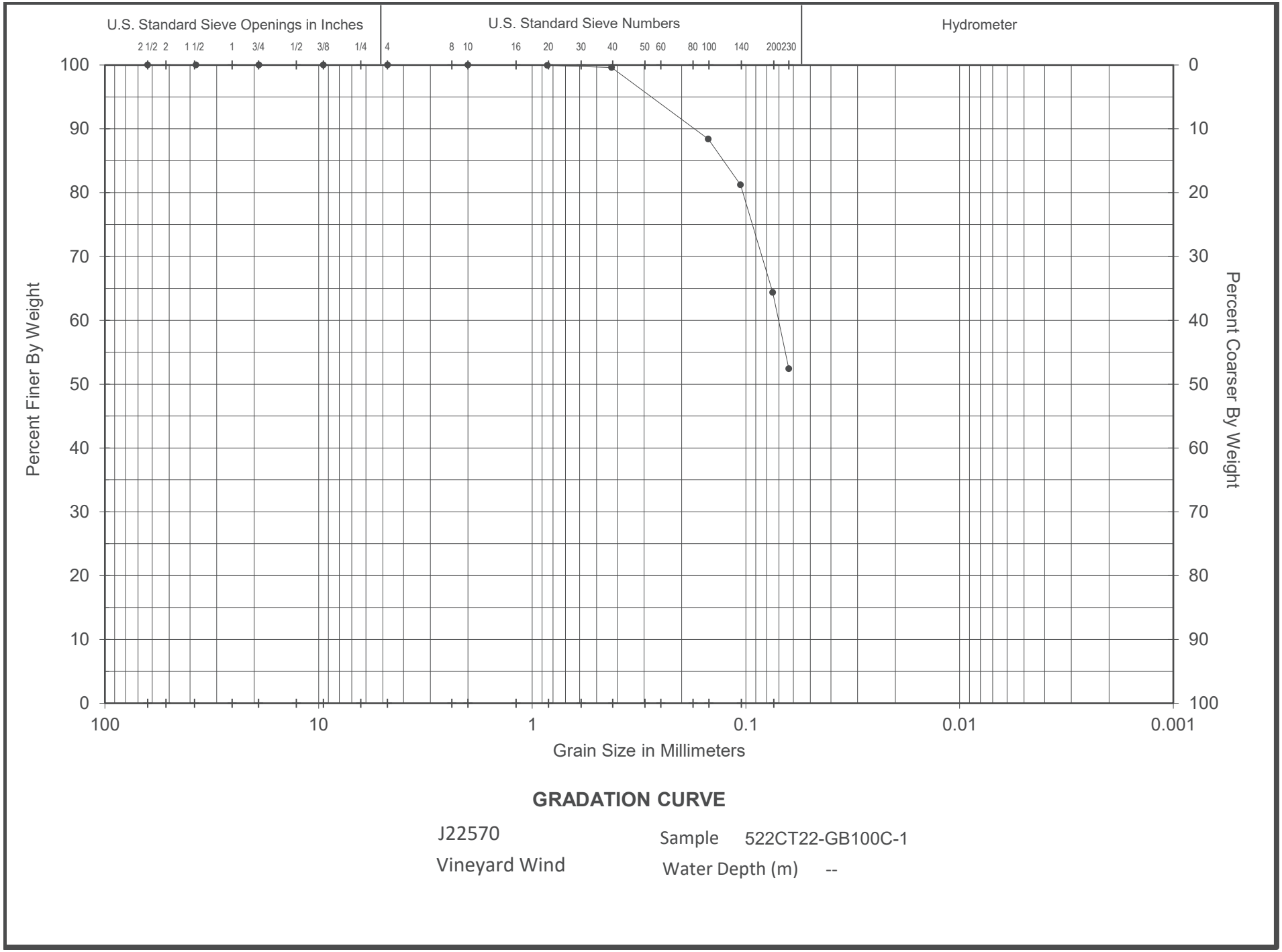
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.96	0.04	
0.425	40	99.59	0.41	
0.15	100	88.39	11.61	
0.106	140	81.24	18.76	
0.075	200	64.38	35.62	
0.063	230	52.40	47.60	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	52.40
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	47.60
% Silt and Clay	< 0.0625 mm	52.40
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.37
% Fine Sand	0.0625 - 0.25 mm	47.19

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	52.40	0.063	#N/A	#N/A	#N/A
D30	30	52.40	0.063	#N/A	#N/A	#N/A
D50	50	52.40	0.063	#N/A	#N/A	#N/A
D60	60	64.38	0.075	52.40	0.063	0.070

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB100C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB101A-1
Water Depth (m)	--

Grain Size Data

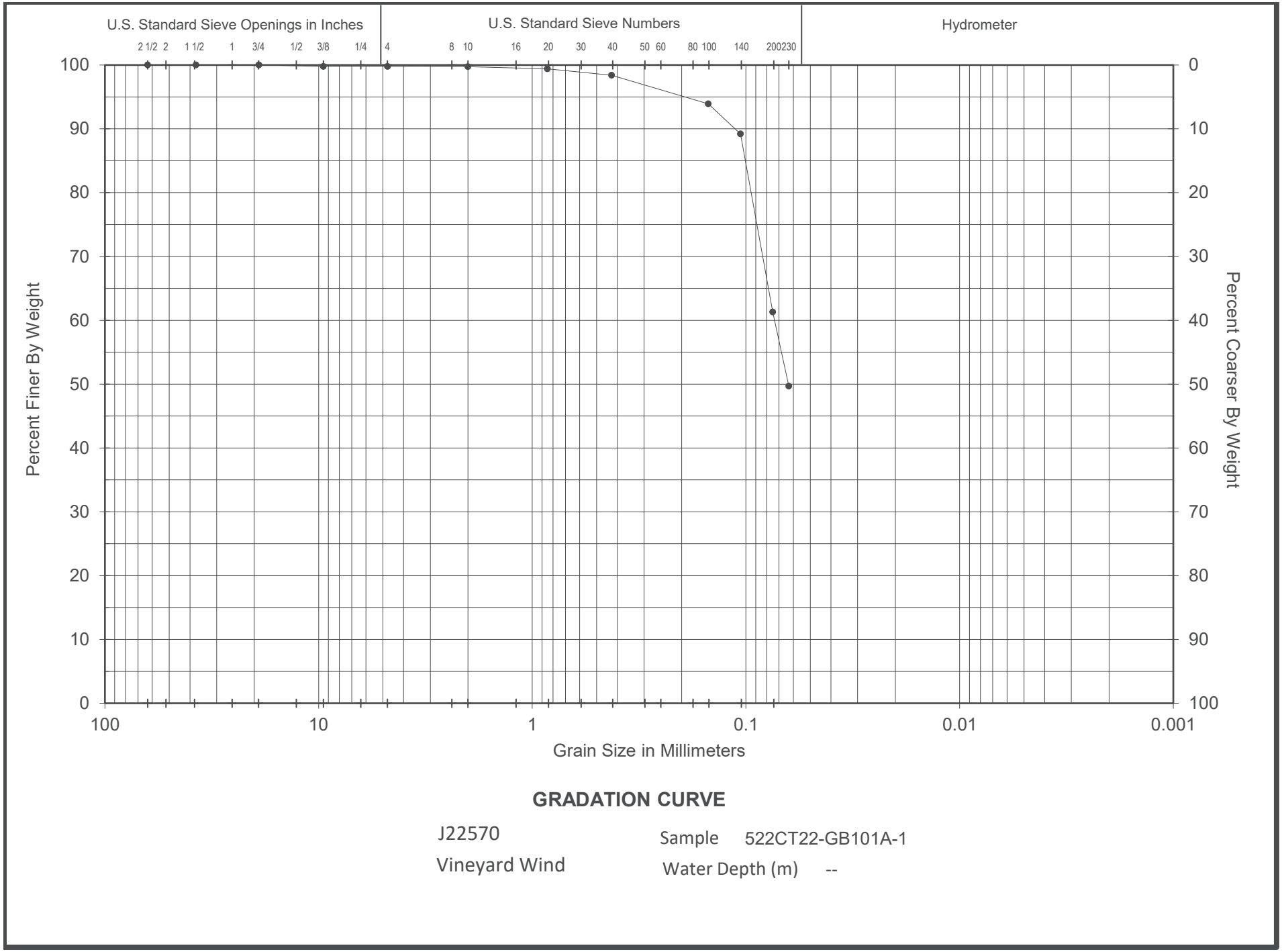
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.77	0.23	
4.75	4	99.77	0.23	
2	10	99.75	0.25	100.00
0.85	20	99.40	0.60	
0.425	40	98.40	1.60	
0.15	100	93.92	6.08	
0.106	140	89.20	10.80	
0.075	200	61.31	38.69	
0.063	230	49.68	50.32	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.75
% Passing #230	49.68
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.25
% Sand	0.0625 - 2.00 mm	50.06
% Silt and Clay	< 0.0625 mm	49.68
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.36
% Medium Sand	0.25 - 0.50 mm	1.01
% Fine Sand	0.0625 - 0.25 mm	48.71

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	49.68	0.063	#N/A	#N/A	#N/A
D30	30	49.68	0.063	#N/A	#N/A	#N/A
D50	50	61.31	0.075	49.68	0.063	0.063
D60	60	61.31	0.075	49.68	0.063	0.074

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB101A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB101B-1
Water Depth (m)	--

Grain Size Data

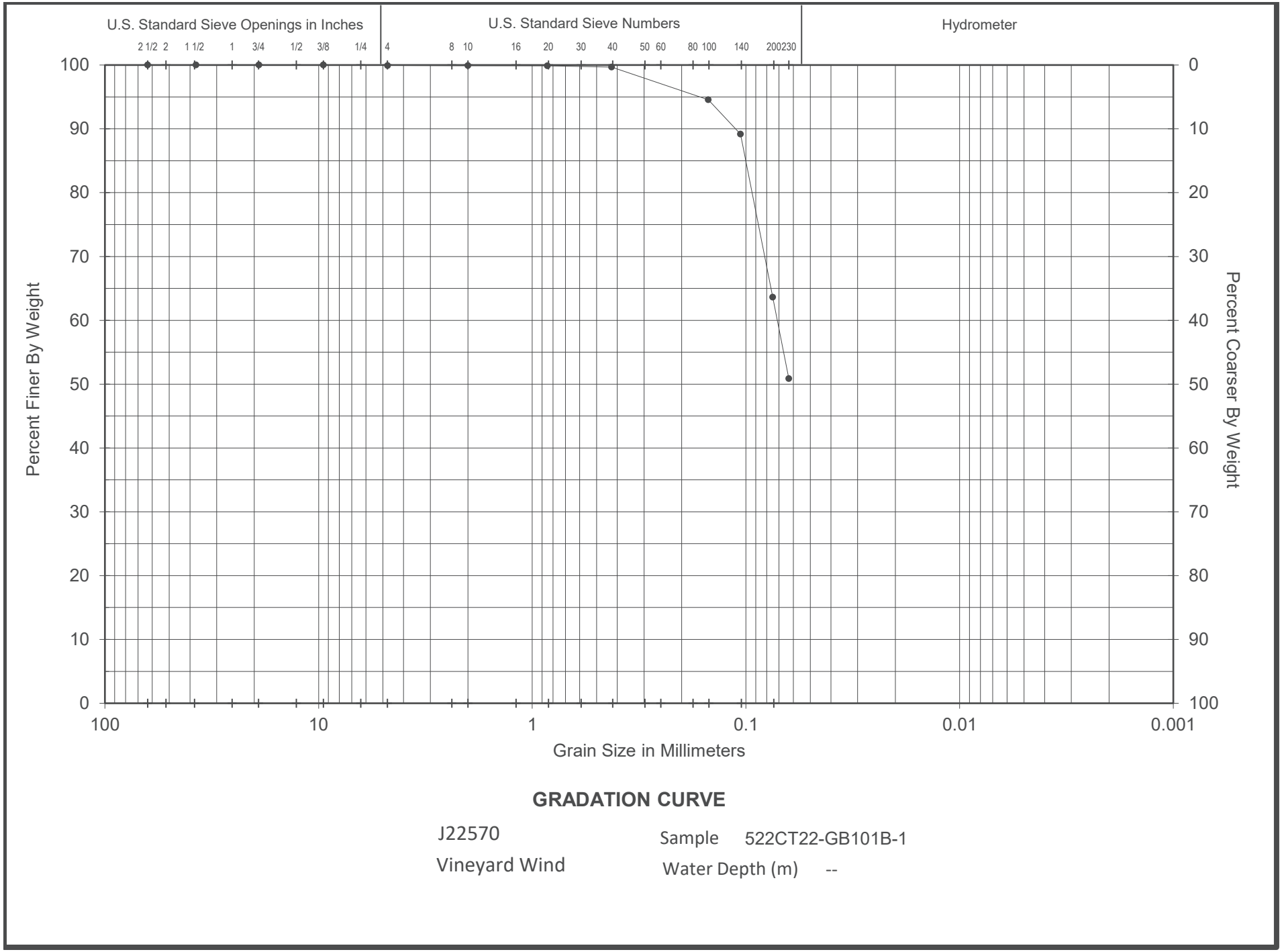
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.91	0.09	
2	10	99.91	0.09	100.00
0.85	20	99.87	0.13	
0.425	40	99.67	0.33	
0.15	100	94.57	5.43	
0.106	140	89.16	10.84	
0.075	200	63.62	36.38	
0.063	230	50.86	49.14	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.91
% Passing #230	50.86
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.09
% Sand	0.0625 - 2.00 mm	49.05
% Silt and Clay	< 0.0625 mm	50.86
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.20
% Fine Sand	0.0625 - 0.25 mm	48.81

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	50.86	0.063	#N/A	#N/A	#N/A
D30	30	50.86	0.063	#N/A	#N/A	#N/A
D50	50	50.86	0.063	#N/A	#N/A	#N/A
D60	60	63.62	0.075	50.86	0.063	0.071

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB101B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB101C-1
Water Depth (m)	--

Grain Size Data

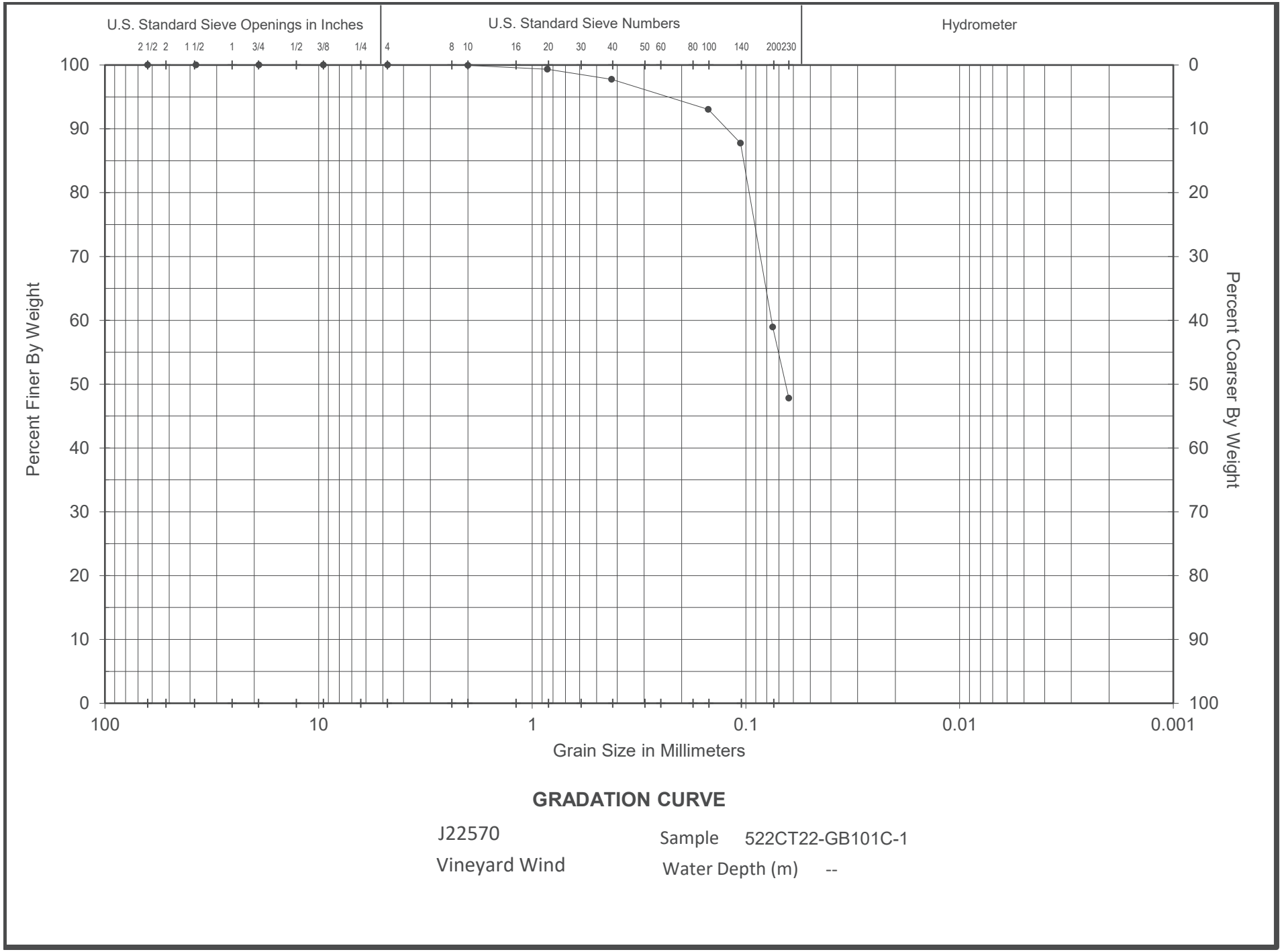
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.96	0.04	17.65
0.85	20	99.35	0.65	
0.425	40	97.75	2.25	
0.15	100	93.03	6.97	
0.106	140	87.75	12.25	
0.075	200	58.94	41.06	
0.063	230	47.81	52.19	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.96
% Passing #230	47.81
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.03
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	52.15
% Silt and Clay	< 0.0625 mm	47.81
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.65
% Medium Sand	0.25 - 0.50 mm	1.61
% Fine Sand	0.0625 - 0.25 mm	49.93

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	47.81	0.063	#N/A	#N/A	#N/A
D30	30	47.81	0.063	#N/A	#N/A	#N/A
D50	50	58.94	0.075	47.81	0.063	0.065
D60	60	87.75	0.106	58.94	0.075	0.076

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB101C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB102A-1
Water Depth (m)	--

Grain Size Data

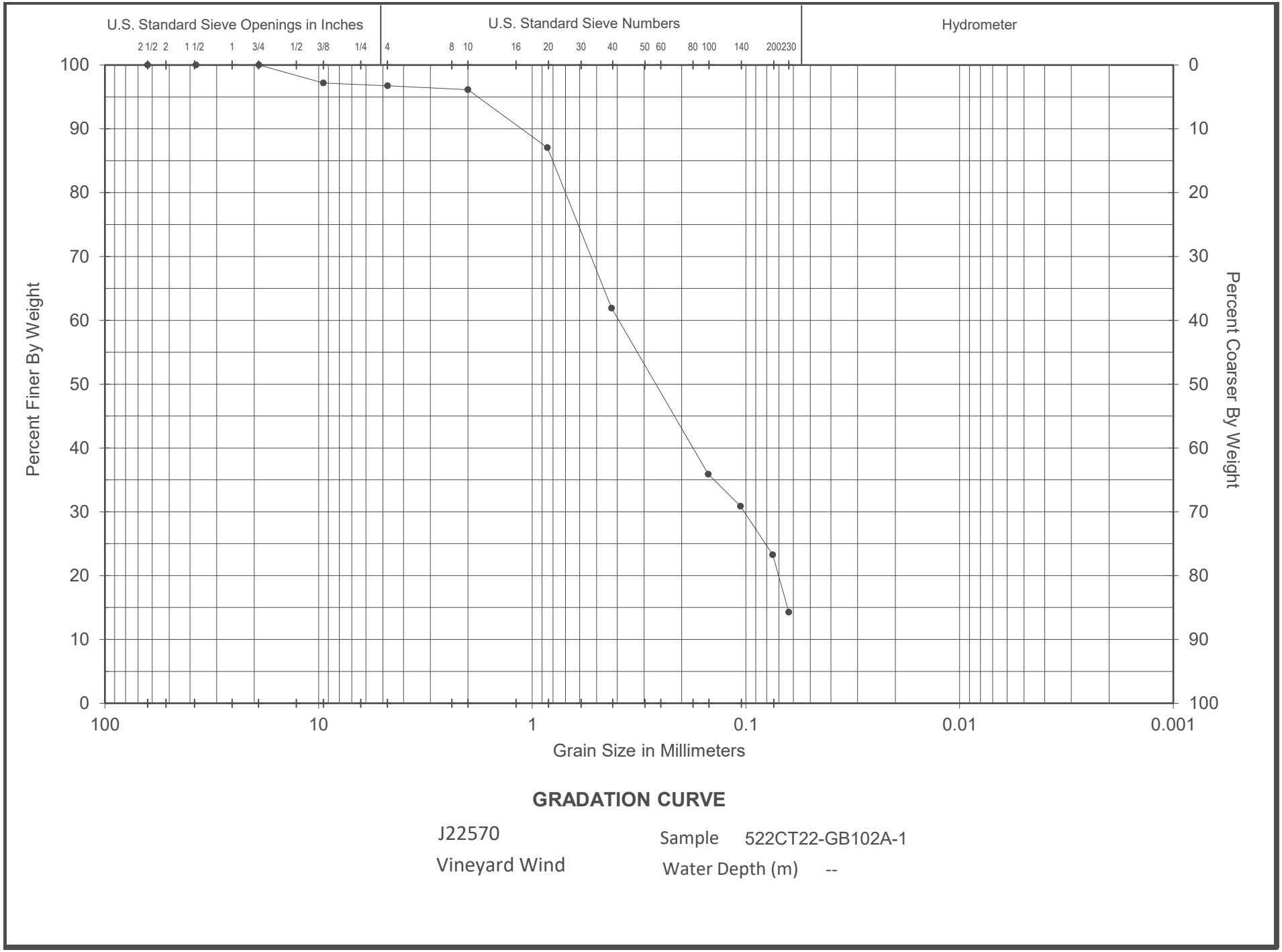
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	97.20	2.80	
4.75	4	96.76	3.24	
2	10	96.13	3.87	72.39
0.85	20	87.04	12.96	
0.425	40	61.91	38.09	
0.15	100	35.89	64.11	
0.106	140	30.88	69.12	
0.075	200	23.26	76.74	
0.063	230	14.27	85.73	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.13
% Passing #230	14.27
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	1.07
% Gravel-Sized Shell	> 2.00 mm	2.80
% Sand	0.0625 - 2.00 mm	81.85
% Silt and Clay	< 0.0625 mm	14.27
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.72
% Medium Sand	0.25 - 0.50 mm	25.13
% Fine Sand	0.0625 - 0.25 mm	47.64

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	14.27	0.063	#N/A	#N/A	#N/A
D30	30	30.88	0.106	23.26	0.075	0.102
D50	50	61.91	0.425	35.89	0.150	0.264
D60	60	61.91	0.425	35.89	0.150	0.394

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB102A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB102B-1
Water Depth (m)	--

Grain Size Data

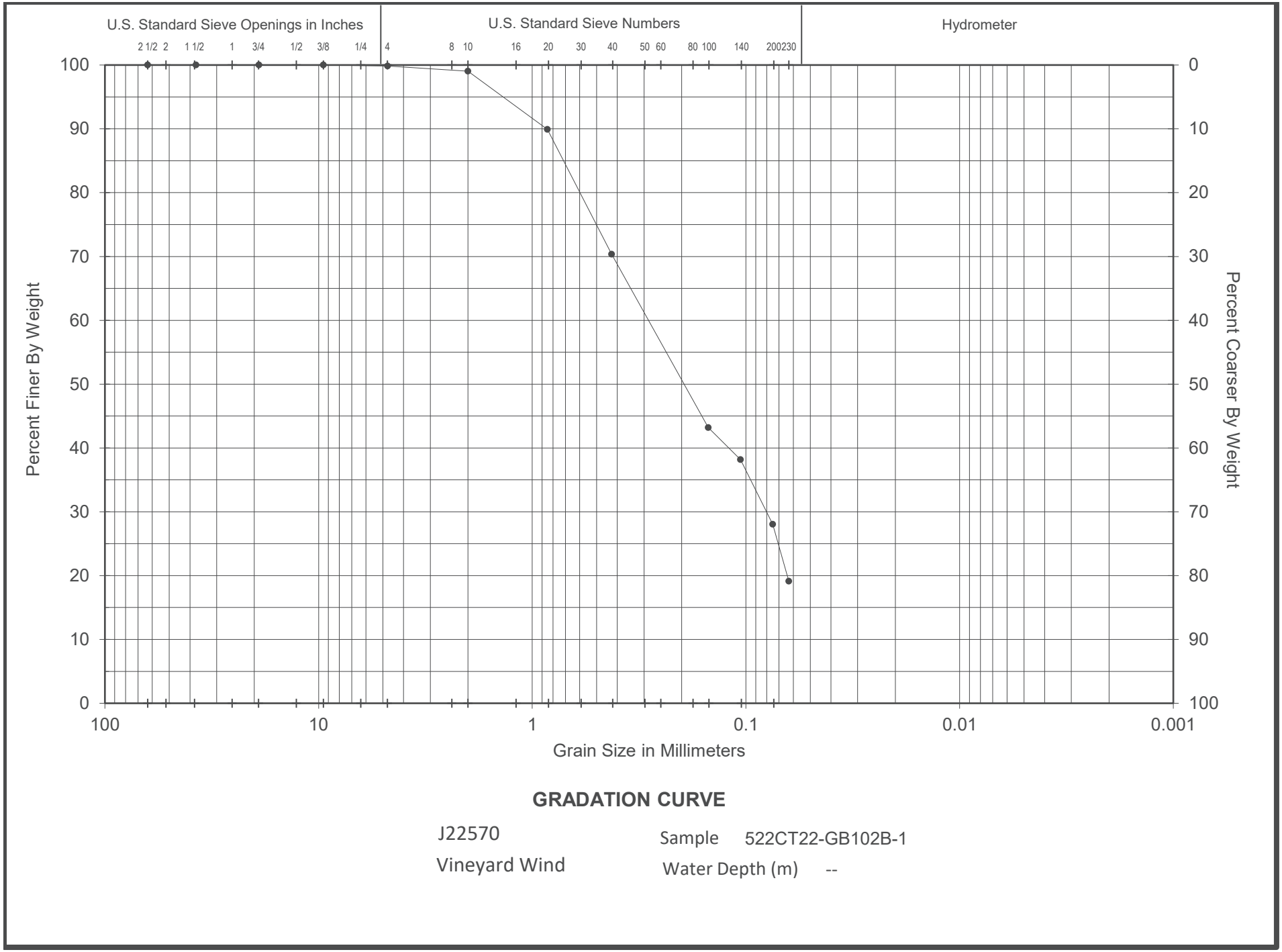
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.85	0.15	
2	10	99.03	0.97	10.10
0.85	20	89.92	10.08	
0.425	40	70.35	29.65	
0.15	100	43.18	56.82	
0.106	140	38.16	61.84	
0.075	200	28.06	71.94	
0.063	230	19.13	80.87	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.03
% Passing #230	19.13
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.87
% Gravel-Sized Shell	> 2.00 mm	0.10
% Sand	0.0625 - 2.00 mm	79.90
% Silt and Clay	< 0.0625 mm	19.13
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	9.93
% Medium Sand	0.25 - 0.50 mm	19.57
% Fine Sand	0.0625 - 0.25 mm	51.22

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.13	0.063	#N/A	#N/A	#N/A
D30	30	38.16	0.106	28.06	0.075	0.080
D50	50	70.35	0.425	43.18	0.150	0.195
D60	60	70.35	0.425	43.18	0.150	0.286

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB102B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB102C-1
Water Depth (m)	--

Grain Size Data

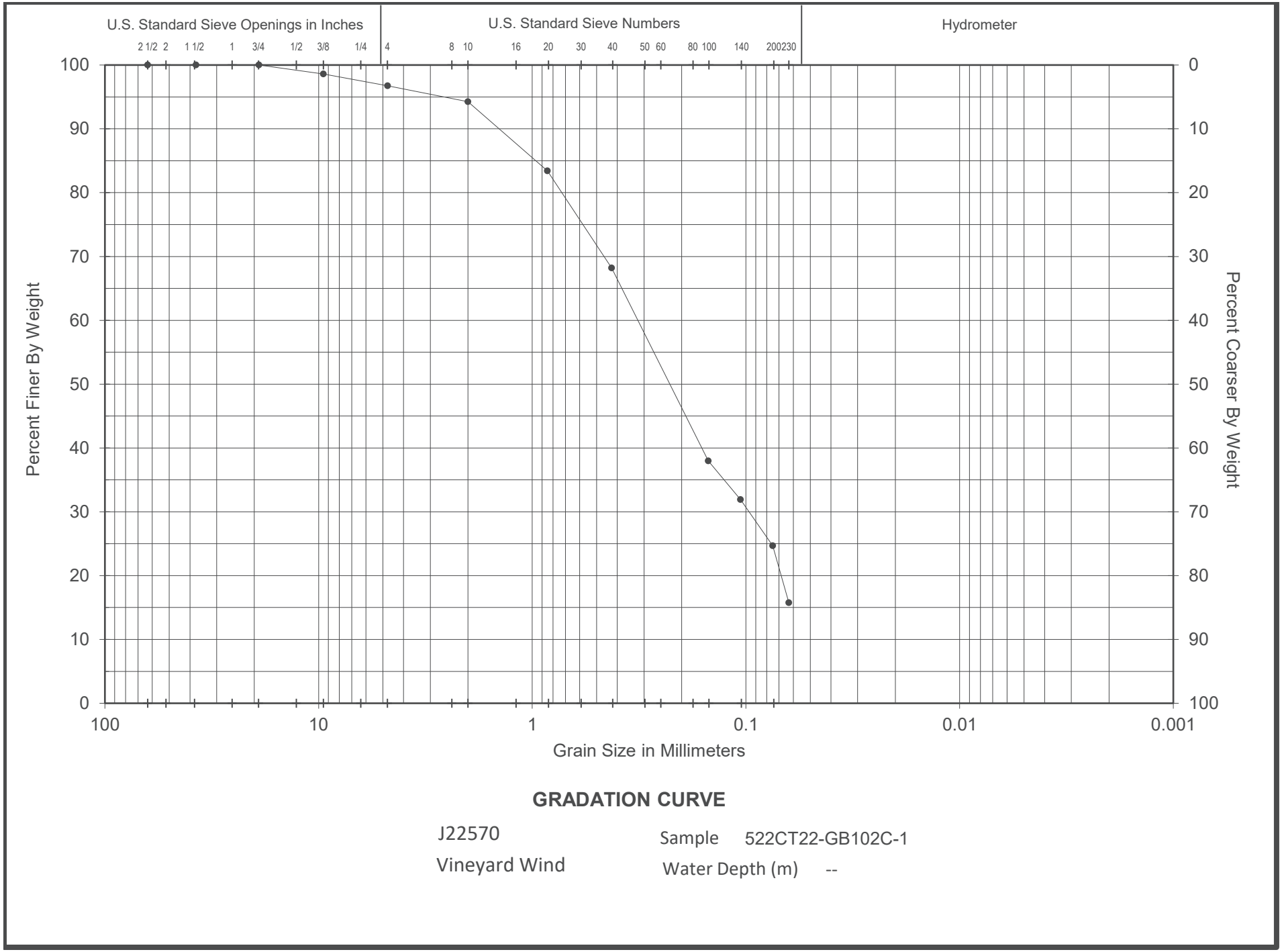
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.59	1.41	
4.75	4	96.74	3.26	
2	10	94.24	5.76	22.59
0.85	20	83.41	16.59	
0.425	40	68.20	31.80	
0.15	100	37.98	62.02	
0.106	140	31.90	68.10	
0.075	200	24.66	75.34	
0.063	230	15.77	84.23	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.24
% Passing #230	15.77
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.46
% Gravel-Sized Shell	> 2.00 mm	1.30
% Sand	0.0625 - 2.00 mm	78.47
% Silt and Clay	< 0.0625 mm	15.77
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	13.32
% Medium Sand	0.25 - 0.50 mm	15.22
% Fine Sand	0.0625 - 0.25 mm	52.42

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	15.77	0.063	#N/A	#N/A	#N/A
D30	30	31.90	0.106	24.66	0.075	0.097
D50	50	68.20	0.425	37.98	0.150	0.227
D60	60	68.20	0.425	37.98	0.150	0.320

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB102C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB103A-1
Water Depth (m)	--

Grain Size Data

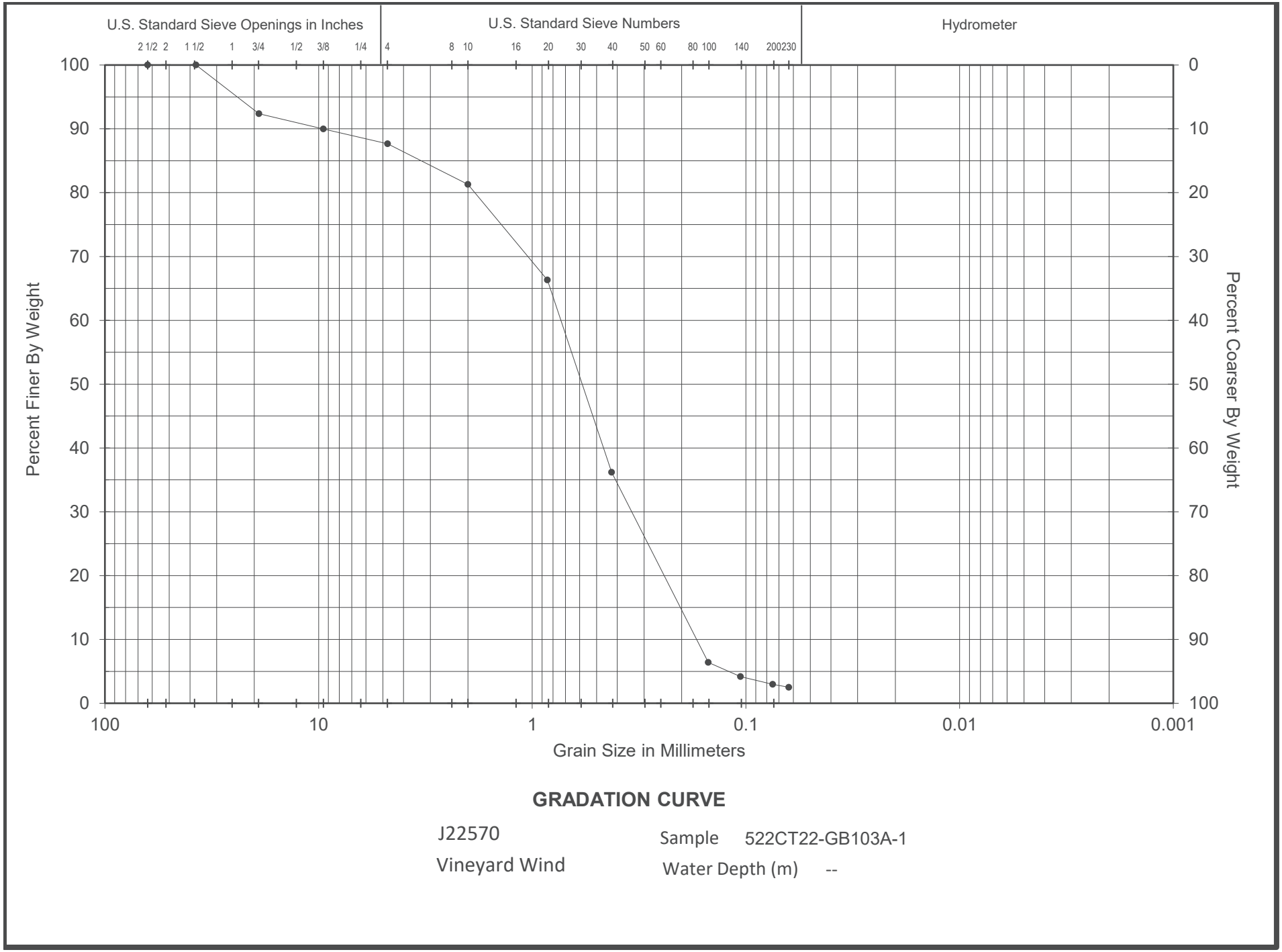
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	92.37	7.63	
9.5	3/8"	89.97	10.03	
4.75	4	87.67	12.33	
2	10	81.29	18.71	3.85
0.85	20	66.33	33.67	
0.425	40	36.19	63.81	
0.15	100	6.41	93.59	
0.106	140	4.18	95.82	
0.075	200	2.97	97.03	
0.063	230	2.51	97.49	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	81.29
% Passing #230	2.51
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	17.99
% Gravel-Sized Shell	> 2.00 mm	0.72
% Sand	0.0625 - 2.00 mm	78.78
% Silt and Clay	< 0.0625 mm	2.51
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	21.34
% Medium Sand	0.25 - 0.50 mm	30.14
% Fine Sand	0.0625 - 0.25 mm	33.68

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	36.19	0.425	6.41	0.150	0.170
D30	30	36.19	0.425	6.41	0.150	0.342
D50	50	66.33	0.850	36.19	0.425	0.584
D60	60	66.33	0.850	36.19	0.425	0.735

Uniformity Coefficient (Cu)	4.321
Coefficient of Curvature (Cc)	0.938



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB103A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB103B-1
Water Depth (m)	--

Grain Size Data

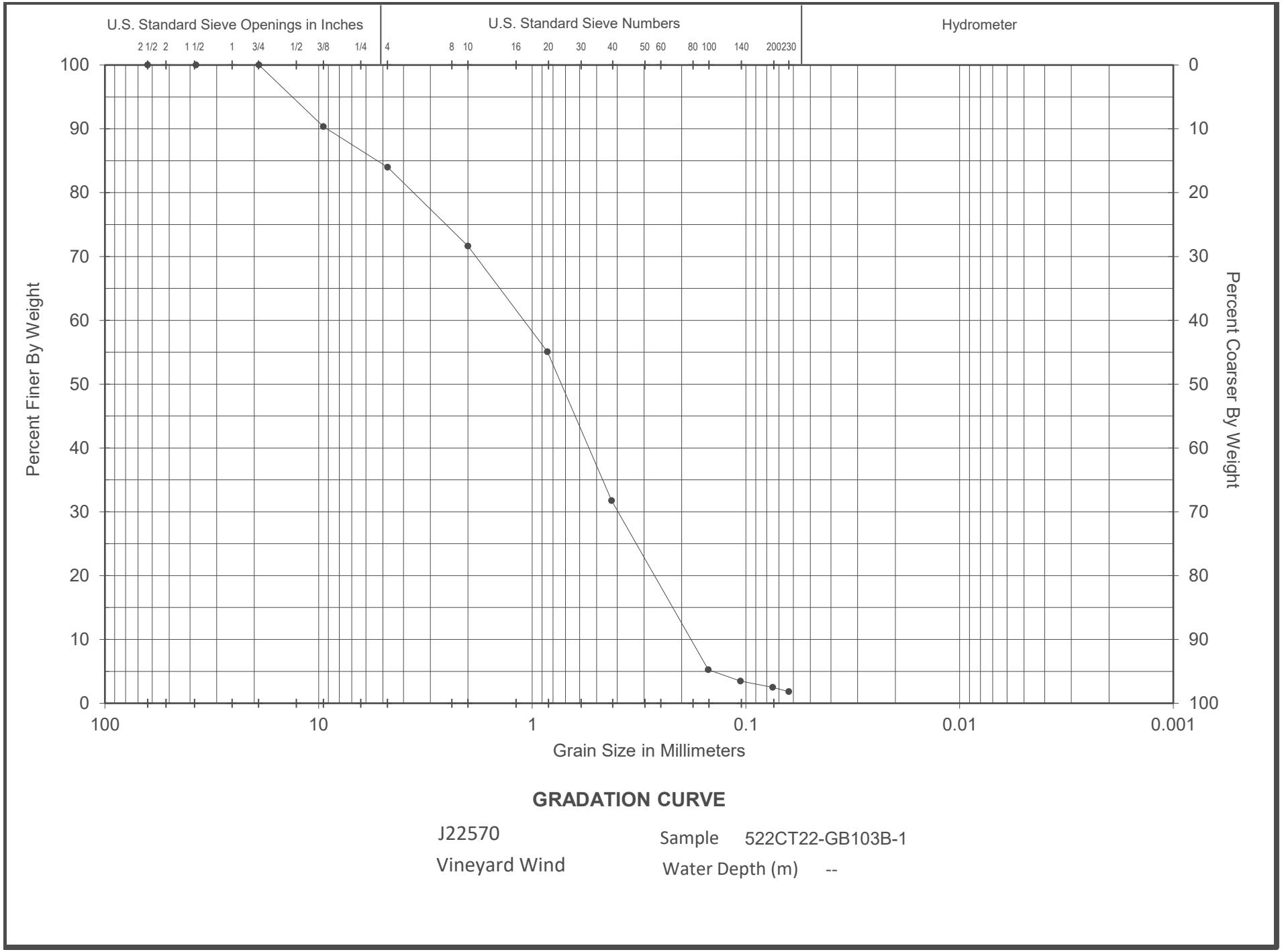
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	90.34	9.66	
4.75	4	84.00	16.00	
2	10	71.62	28.38	2.35
0.85	20	55.09	44.91	
0.425	40	31.74	68.26	
0.15	100	5.26	94.74	
0.106	140	3.47	96.53	
0.075	200	2.51	97.49	
0.063	230	1.82	98.18	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	71.62
% Passing #230	1.82
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	27.71
% Gravel-Sized Shell	> 2.00 mm	0.67
% Sand	0.0625 - 2.00 mm	69.81
% Silt and Clay	< 0.0625 mm	1.82
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	28.91
% Medium Sand	0.25 - 0.50 mm	23.35
% Fine Sand	0.0625 - 0.25 mm	29.93

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	31.74	0.425	5.26	0.150	0.181
D30	30	31.74	0.425	5.26	0.150	0.397
D50	50	55.09	0.850	31.74	0.425	0.731
D60	60	71.62	2.000	55.09	0.850	1.096

Uniformity Coefficient (Cu)	6.064
Coefficient of Curvature (Cc)	0.795



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB103B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB103C-1
Water Depth (m)	--

Grain Size Data

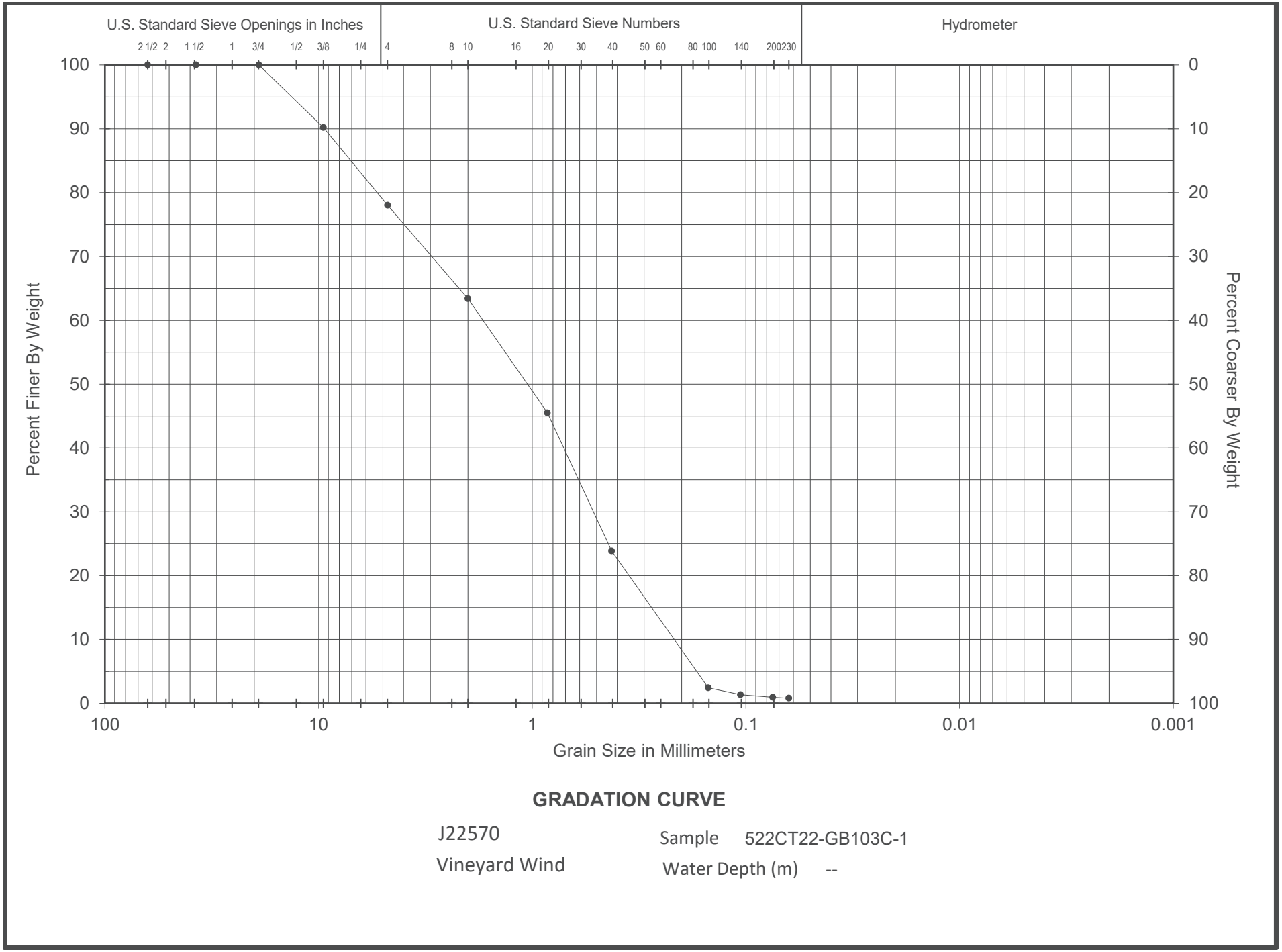
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	90.23	9.77	
4.75	4	78.04	21.96	
2	10	63.40	36.60	11.50
0.85	20	45.51	54.49	
0.425	40	23.87	76.13	
0.15	100	2.42	97.58	
0.106	140	1.36	98.64	
0.075	200	0.95	99.05	
0.063	230	0.80	99.20	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	63.40
% Passing #230	0.80
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	32.39
% Gravel-Sized Shell	> 2.00 mm	4.21
% Sand	0.0625 - 2.00 mm	62.60
% Silt and Clay	< 0.0625 mm	0.80
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	32.54
% Medium Sand	0.25 - 0.50 mm	21.64
% Fine Sand	0.0625 - 0.25 mm	23.07

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.87	0.425	2.42	0.150	0.217
D30	30	45.51	0.850	23.87	0.425	0.517
D50	50	63.40	2.000	45.51	0.850	1.054
D60	60	63.40	2.000	45.51	0.850	1.700

Uniformity Coefficient (Cu)	7.844
Coefficient of Curvature (Cc)	0.726



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB103C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB104A-1
Water Depth (m)	--

Grain Size Data

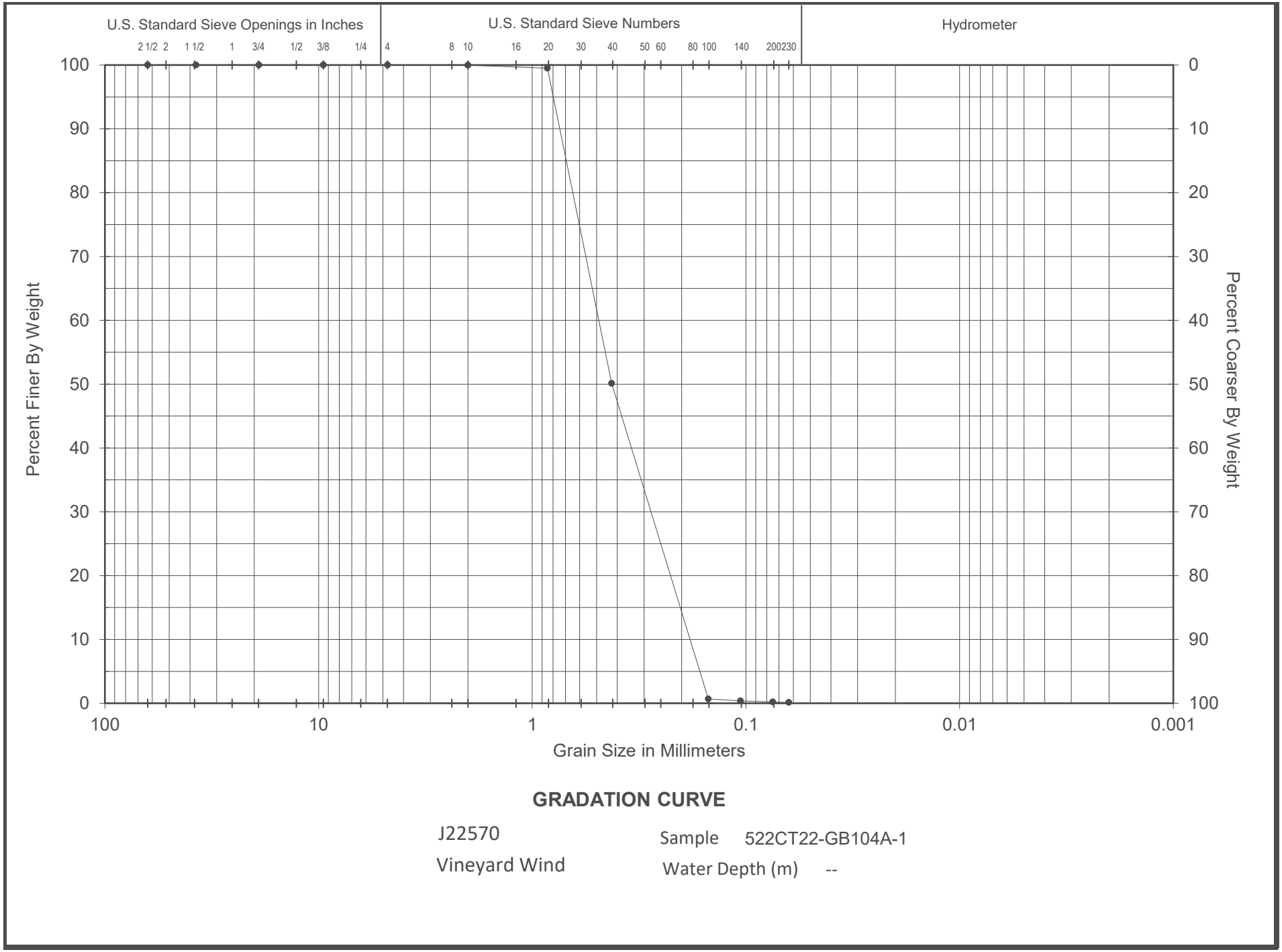
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.99	0.01	100.00
0.85	20	99.52	0.48	
0.425	40	50.12	49.88	
0.15	100	0.67	99.33	
0.106	140	0.37	99.63	
0.075	200	0.22	99.78	
0.063	230	0.14	99.86	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.99
% Passing #230	0.14
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.01
% Sand	0.0625 - 2.00 mm	99.85
% Silt and Clay	< 0.0625 mm	0.14
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.48
% Medium Sand	0.25 - 0.50 mm	49.40
% Fine Sand	0.0625 - 0.25 mm	49.99

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	50.12	0.425	0.67	0.150	0.183
D30	30	50.12	0.425	0.67	0.150	0.278
D50	50	50.12	0.425	0.67	0.150	0.424
D60	60	99.52	0.850	50.12	0.425	0.488

Uniformity Coefficient (Cu)	2.674
Coefficient of Curvature (Cc)	0.868



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB104A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB104-B1
Water Depth (m)	--

Grain Size Data

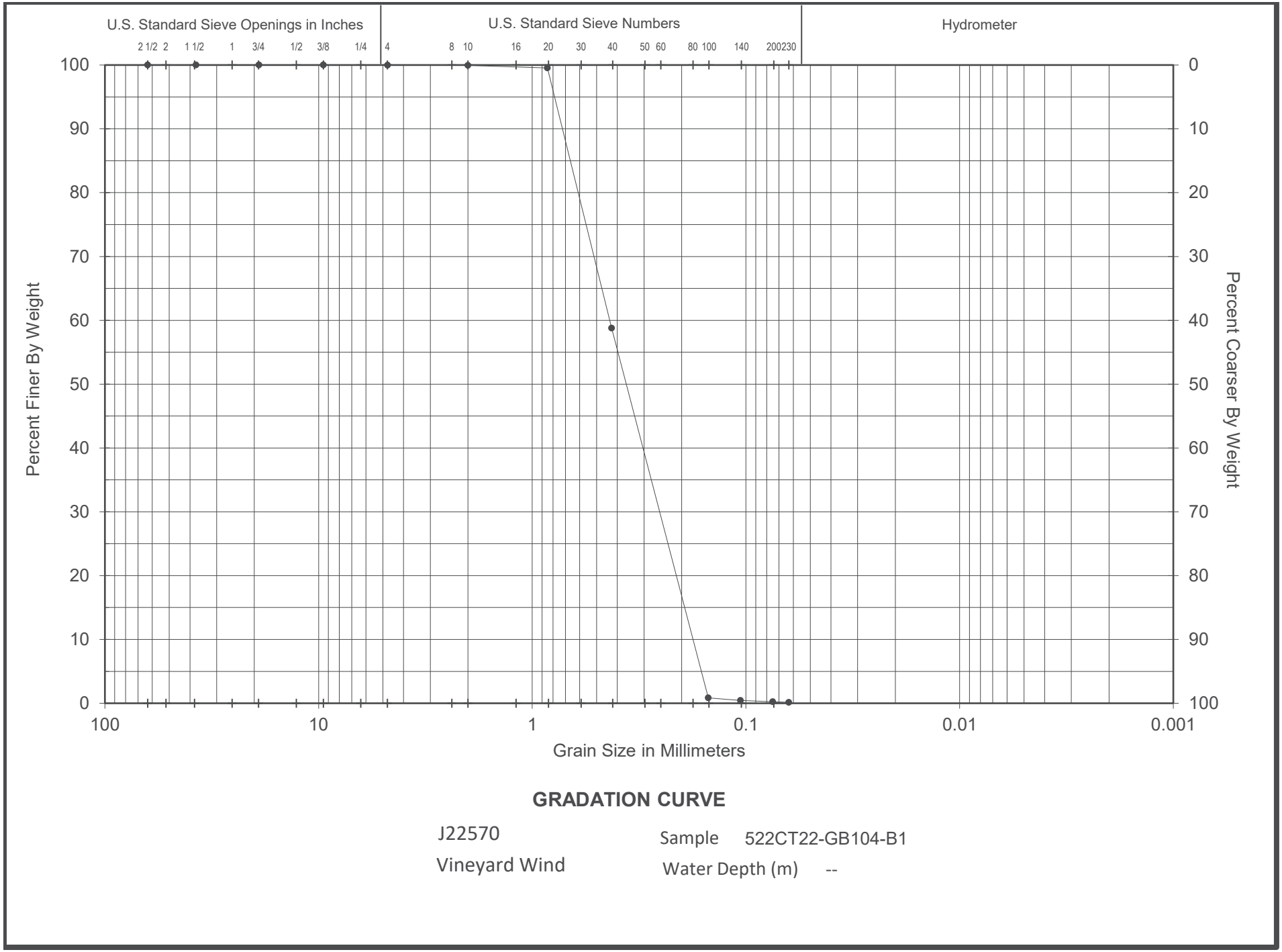
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.98	0.02	
2	10	99.95	0.05	90.91
0.85	20	99.54	0.46	
0.425	40	58.78	41.22	
0.15	100	0.85	99.15	
0.106	140	0.43	99.57	
0.075	200	0.24	99.76	
0.063	230	0.16	99.84	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.95
% Passing #230	0.16
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	99.80
% Silt and Clay	< 0.0625 mm	0.16
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.44
% Medium Sand	0.25 - 0.50 mm	40.77
% Fine Sand	0.0625 - 0.25 mm	58.62

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	58.78	0.425	0.85	0.150	0.177
D30	30	58.78	0.425	0.85	0.150	0.253
D50	50	58.78	0.425	0.85	0.150	0.363
D60	60	99.54	0.850	58.78	0.425	0.434

Uniformity Coefficient (Cu)	2.454
Coefficient of Curvature (Cc)	0.836



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB104-B1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB104C-1
Water Depth (m)	--

Grain Size Data

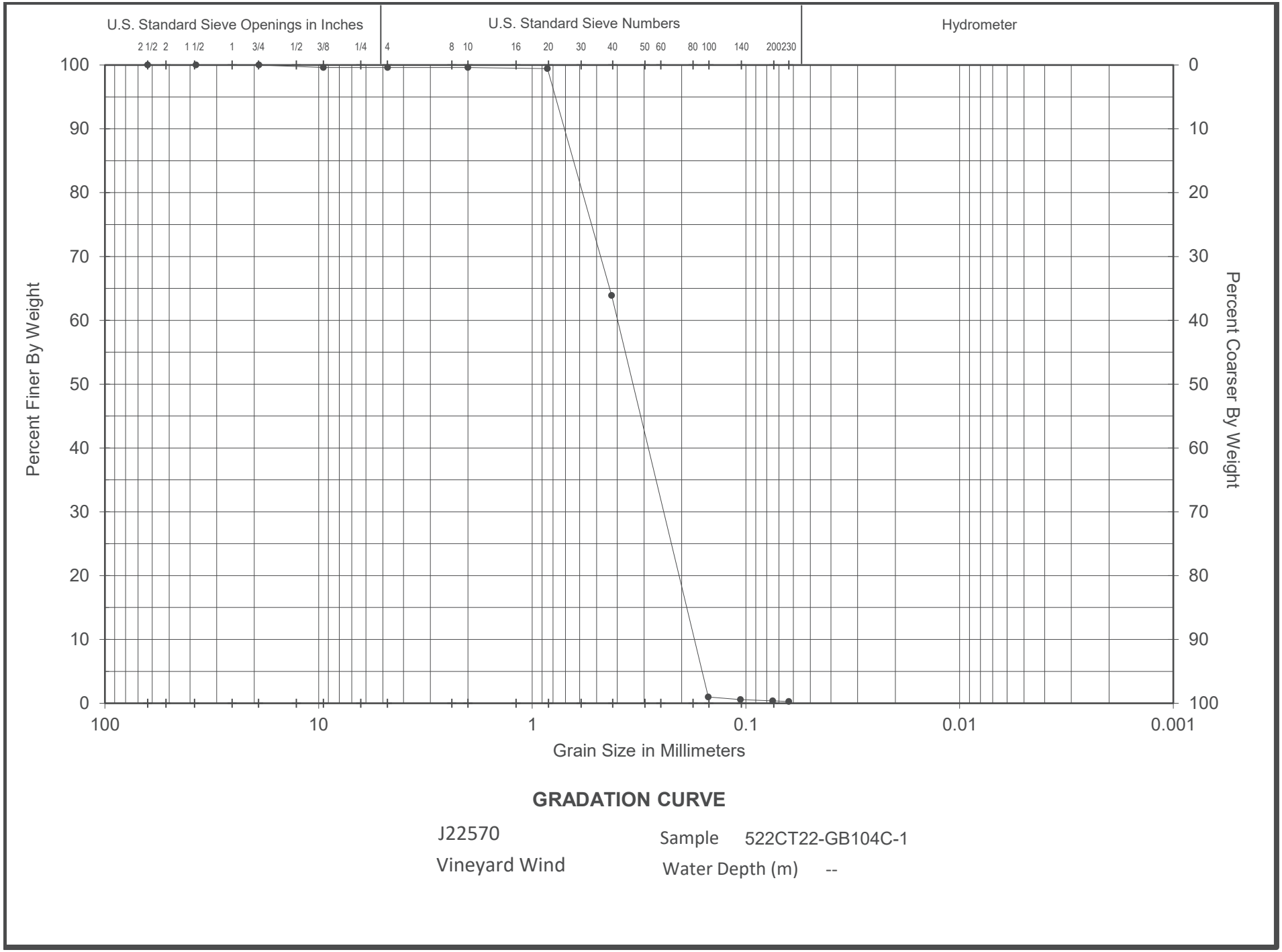
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.62	0.38	
4.75	4	99.60	0.40	
2	10	99.59	0.41	100.00
0.85	20	99.45	0.55	
0.425	40	63.88	36.12	
0.15	100	0.98	99.02	
0.106	140	0.56	99.44	
0.075	200	0.39	99.61	
0.063	230	0.28	99.72	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.59
% Passing #230	0.28
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.41
% Sand	0.0625 - 2.00 mm	99.31
% Silt and Clay	< 0.0625 mm	0.28
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.15
% Medium Sand	0.25 - 0.50 mm	35.57
% Fine Sand	0.0625 - 0.25 mm	63.60

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	63.88	0.425	0.98	0.150	0.174
D30	30	63.88	0.425	0.98	0.150	0.243
D50	50	63.88	0.425	0.98	0.150	0.338
D60	60	63.88	0.425	0.98	0.150	0.399

Uniformity Coefficient (Cu)	2.289
Coefficient of Curvature (Cc)	0.847



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB104C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB105A-1
Water Depth (m)	--

Grain Size Data

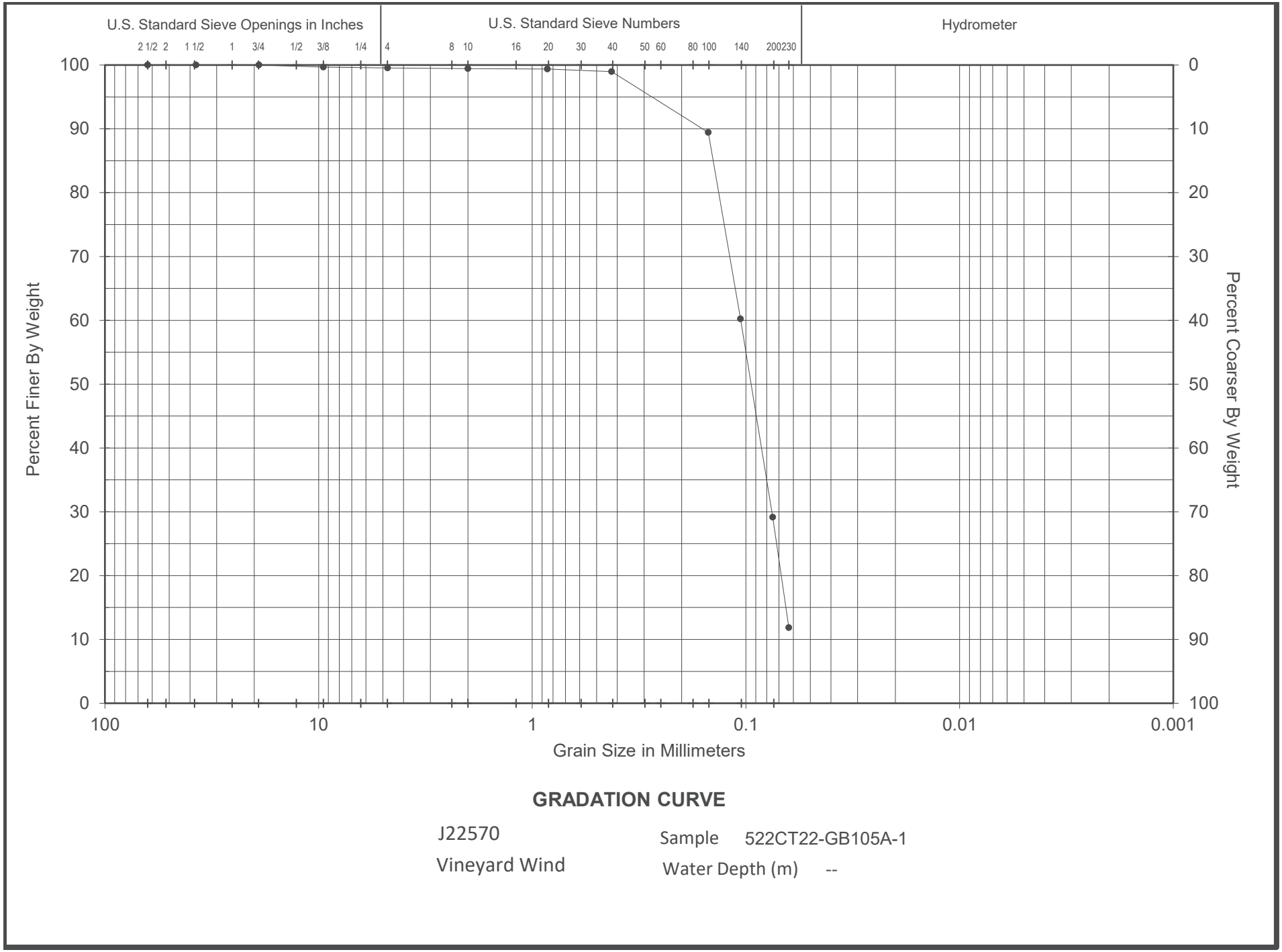
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	99.69	0.31	
4.75	4	99.54	0.46	
2	10	99.44	0.56	100.00
0.85	20	99.36	0.64	
0.425	40	98.98	1.02	
0.15	100	89.45	10.55	
0.106	140	60.23	39.77	
0.075	200	29.17	70.83	
0.063	230	11.85	88.15	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.44
% Passing #230	11.85
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.56
% Sand	0.0625 - 2.00 mm	87.59
% Silt and Clay	< 0.0625 mm	11.85
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.18
% Medium Sand	0.25 - 0.50 mm	0.38
% Fine Sand	0.0625 - 0.25 mm	87.13

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.85	0.063	#N/A	#N/A	#N/A
D30	30	60.23	0.106	29.17	0.075	0.076
D50	50	60.23	0.106	29.17	0.075	0.095
D60	60	60.23	0.106	29.17	0.075	0.106

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB105A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB105B-1
Water Depth (m)	--

Grain Size Data

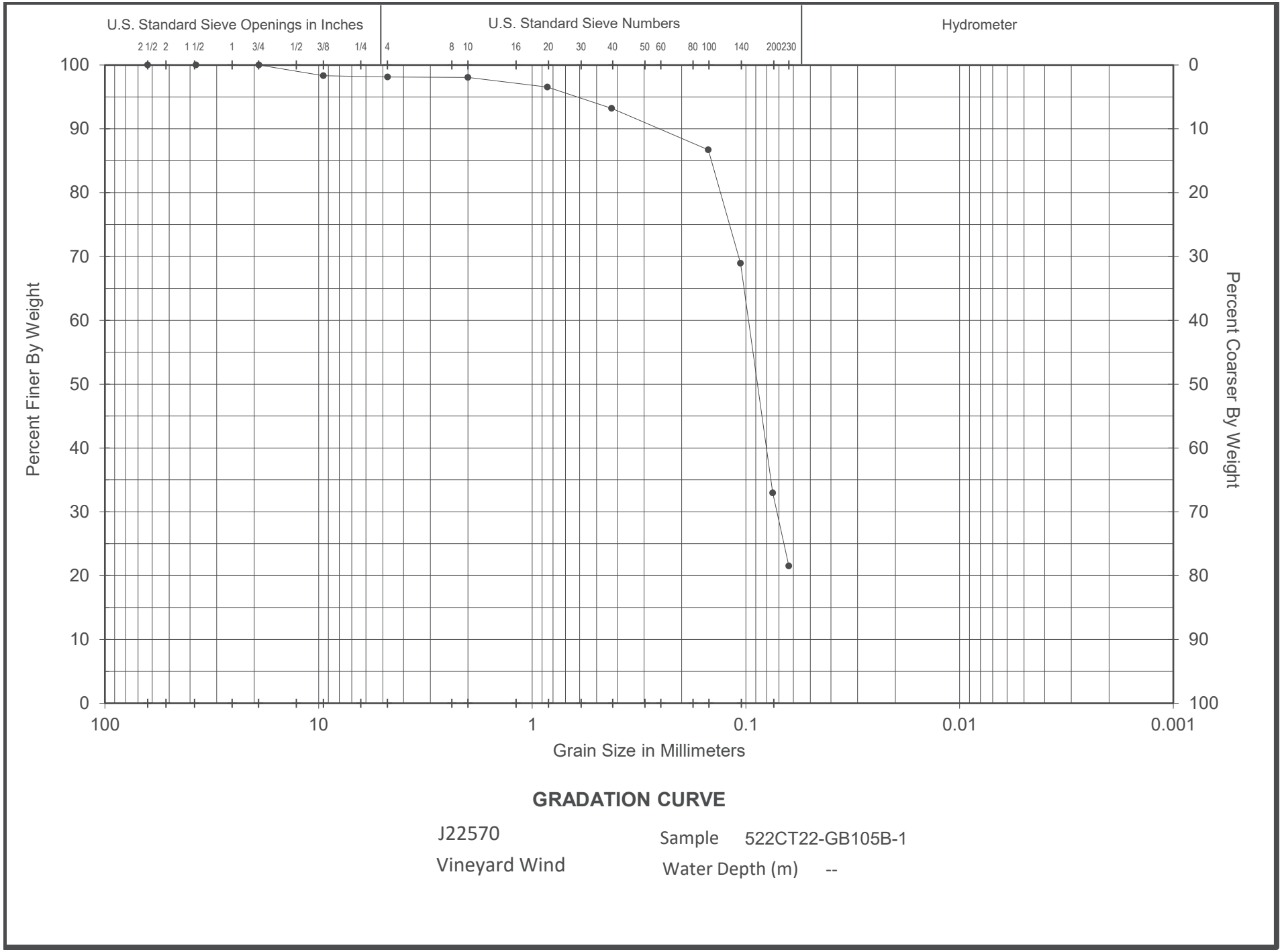
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.32	1.68	
4.75	4	98.12	1.88	
2	10	98.06	1.94	100.00
0.85	20	96.55	3.45	
0.425	40	93.21	6.79	
0.15	100	86.73	13.27	
0.106	140	68.94	31.06	
0.075	200	32.97	67.03	
0.063	230	21.53	78.47	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	98.06
% Passing #230	21.53
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	1.94
% Sand	0.0625 - 2.00 mm	76.53
% Silt and Clay	< 0.0625 mm	21.53
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.57
% Medium Sand	0.25 - 0.50 mm	3.33
% Fine Sand	0.0625 - 0.25 mm	71.69

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	21.53	0.063	#N/A	#N/A	#N/A
D30	30	32.97	0.075	21.53	0.063	0.072
D50	50	68.94	0.106	32.97	0.075	0.088
D60	60	68.94	0.106	32.97	0.075	0.097

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB105B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB105C-1
Water Depth (m)	--

Grain Size Data

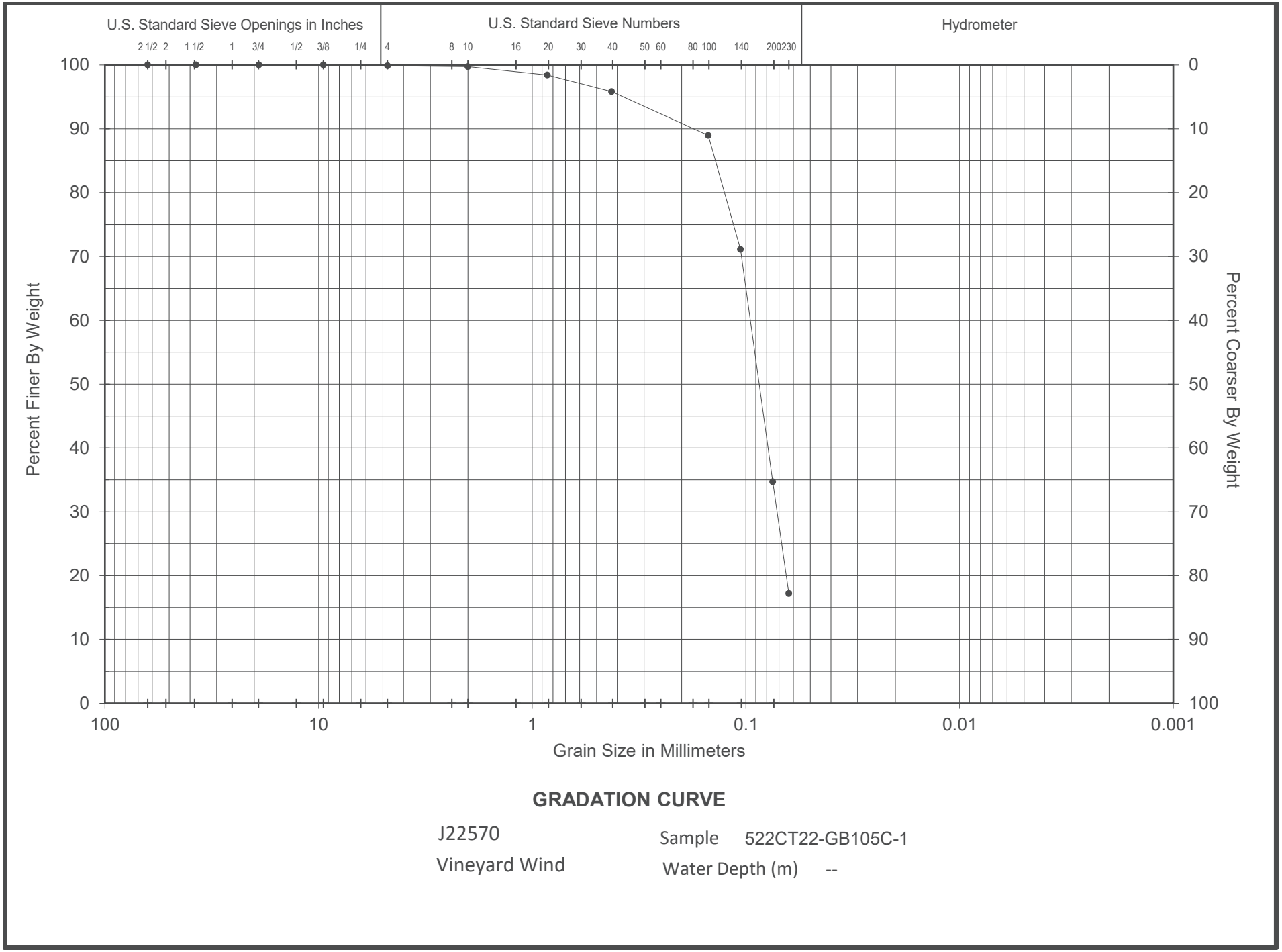
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.89	0.11	
2	10	99.75	0.25	47.66
0.85	20	98.42	1.58	
0.425	40	95.82	4.18	
0.15	100	88.96	11.04	
0.106	140	71.11	28.89	
0.075	200	34.71	65.29	
0.063	230	17.20	82.80	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.75
% Passing #230	17.20
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.13
% Gravel-Sized Shell	> 2.00 mm	0.12
% Sand	0.0625 - 2.00 mm	82.55
% Silt and Clay	< 0.0625 mm	17.20
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.47
% Medium Sand	0.25 - 0.50 mm	2.60
% Fine Sand	0.0625 - 0.25 mm	78.63

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	17.20	0.063	#N/A	#N/A	#N/A
D30	30	34.71	0.075	17.20	0.063	0.072
D50	50	71.11	0.106	34.71	0.075	0.087
D60	60	71.11	0.106	34.71	0.075	0.095

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB105C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB106A-1
Water Depth (m)	--

Grain Size Data

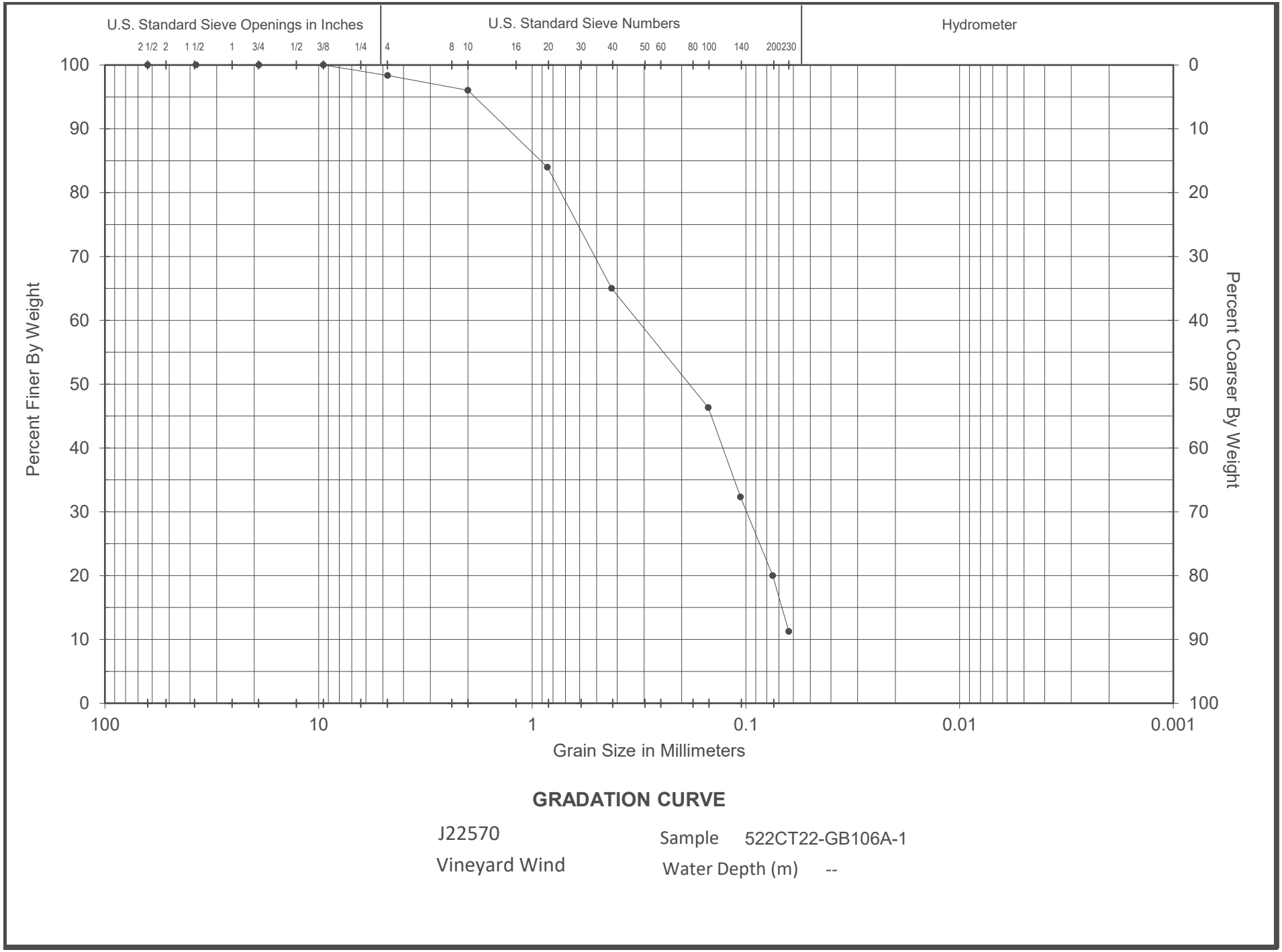
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.35	1.65	
2	10	96.04	3.96	2.13
0.85	20	83.98	16.02	
0.425	40	65.00	35.00	
0.15	100	46.31	53.69	
0.106	140	32.33	67.67	
0.075	200	19.99	80.01	
0.063	230	11.25	88.75	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.04
% Passing #230	11.25
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	3.88
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	84.79
% Silt and Clay	< 0.0625 mm	11.25
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.37
% Medium Sand	0.25 - 0.50 mm	18.98
% Fine Sand	0.0625 - 0.25 mm	53.76

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.25	0.063	#N/A	#N/A	#N/A
D30	30	32.33	0.106	19.99	0.075	0.099
D50	50	65.00	0.425	46.31	0.150	0.184
D60	60	65.00	0.425	46.31	0.150	0.322

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB106A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB106B-1
Water Depth (m)	--

Grain Size Data

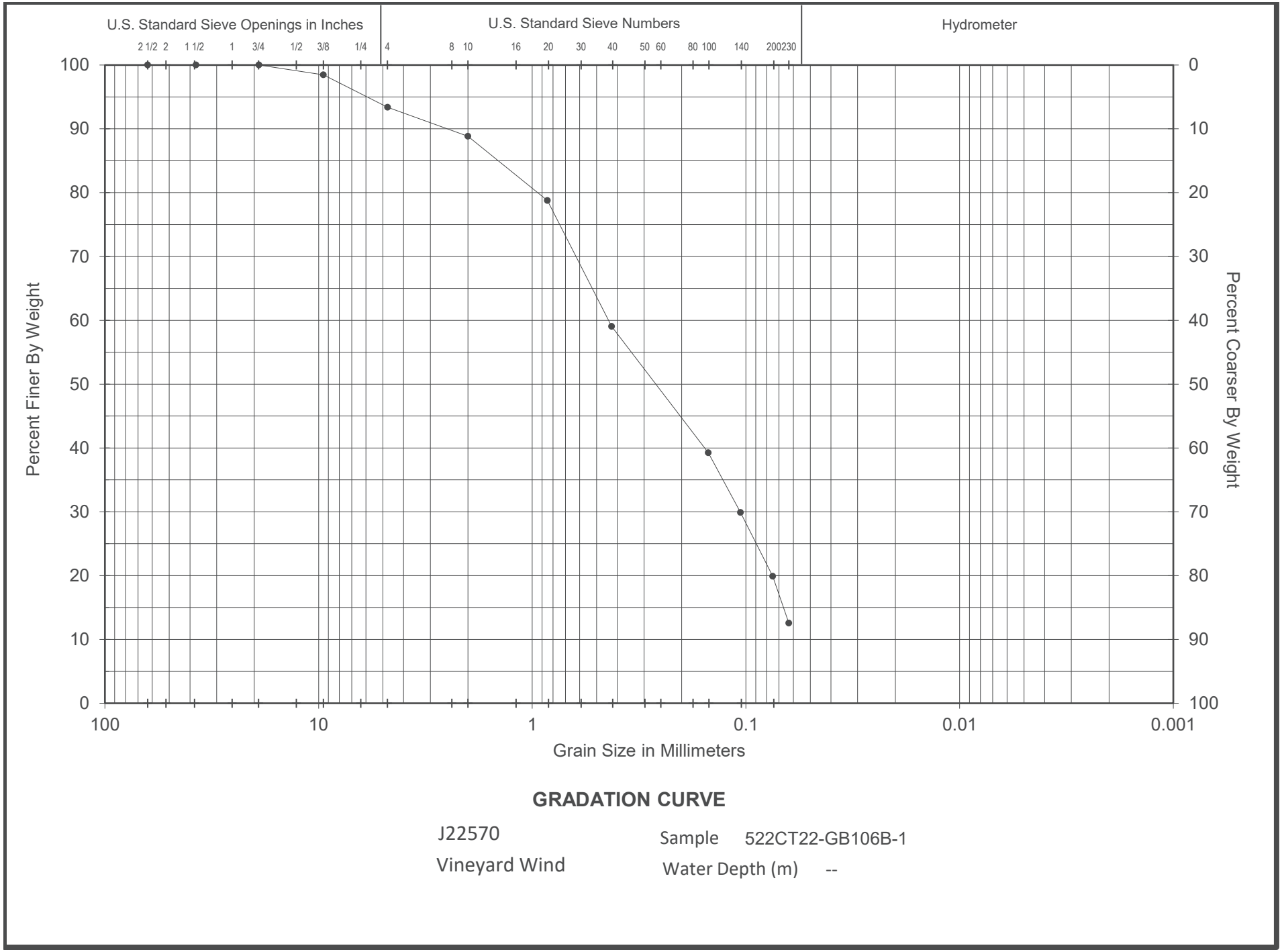
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.47	1.53	
4.75	4	93.38	6.62	
2	10	88.84	11.16	3.86
0.85	20	78.77	21.23	
0.425	40	59.04	40.96	
0.15	100	39.26	60.74	
0.106	140	29.89	70.11	
0.075	200	19.89	80.11	
0.063	230	12.57	87.43	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	88.84
% Passing #230	12.57
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	10.73
% Gravel-Sized Shell	> 2.00 mm	0.43
% Sand	0.0625 - 2.00 mm	76.27
% Silt and Clay	< 0.0625 mm	12.57
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.62
% Medium Sand	0.25 - 0.50 mm	19.72
% Fine Sand	0.0625 - 0.25 mm	46.47

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	12.57	0.063	#N/A	#N/A	#N/A
D30	30	39.26	0.150	29.89	0.106	0.106
D50	50	59.04	0.425	39.26	0.150	0.264
D60	60	78.77	0.850	59.04	0.425	0.440

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB106B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB106C-1
Water Depth (m)	--

Grain Size Data

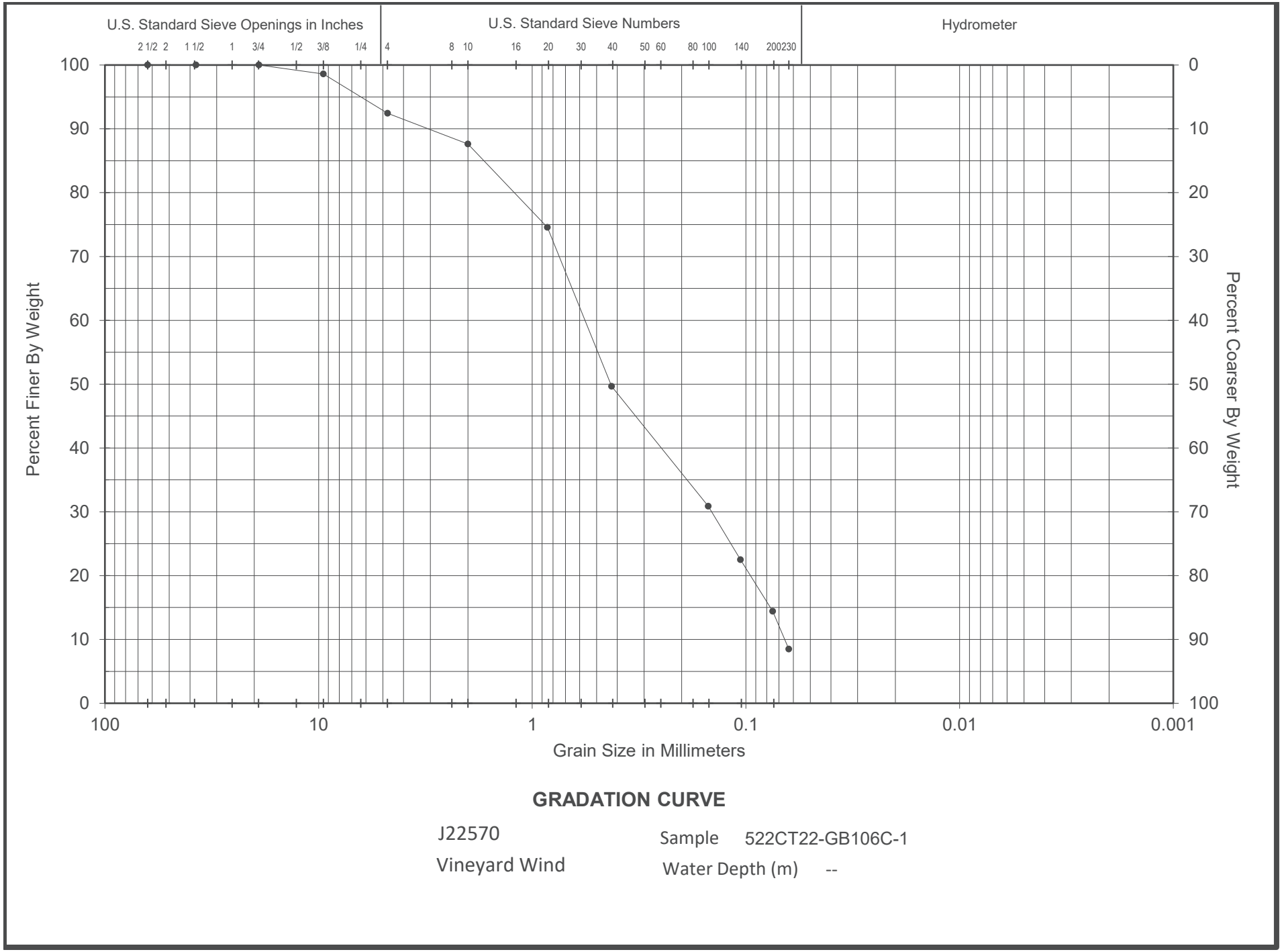
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.58	1.42	
4.75	4	92.45	7.55	
2	10	87.62	12.38	4.14
0.85	20	74.56	25.44	
0.425	40	49.66	50.34	
0.15	100	30.87	69.13	
0.106	140	22.49	77.51	
0.075	200	14.42	85.58	
0.063	230	8.48	91.52	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	87.62
% Passing #230	8.48
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	11.87
% Gravel-Sized Shell	> 2.00 mm	0.51
% Sand	0.0625 - 2.00 mm	79.14
% Silt and Clay	< 0.0625 mm	8.48
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	17.89
% Medium Sand	0.25 - 0.50 mm	24.90
% Fine Sand	0.0625 - 0.25 mm	41.18

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.42	0.075	8.48	0.063	0.066
D30	30	30.87	0.150	22.49	0.106	0.145
D50	50	74.56	0.850	49.66	0.425	0.429
D60	60	74.56	0.850	49.66	0.425	0.567

Uniformity Coefficient (Cu)	8.603
Coefficient of Curvature (Cc)	0.561



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB106C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB107A-1
Water Depth (m)	--

Grain Size Data

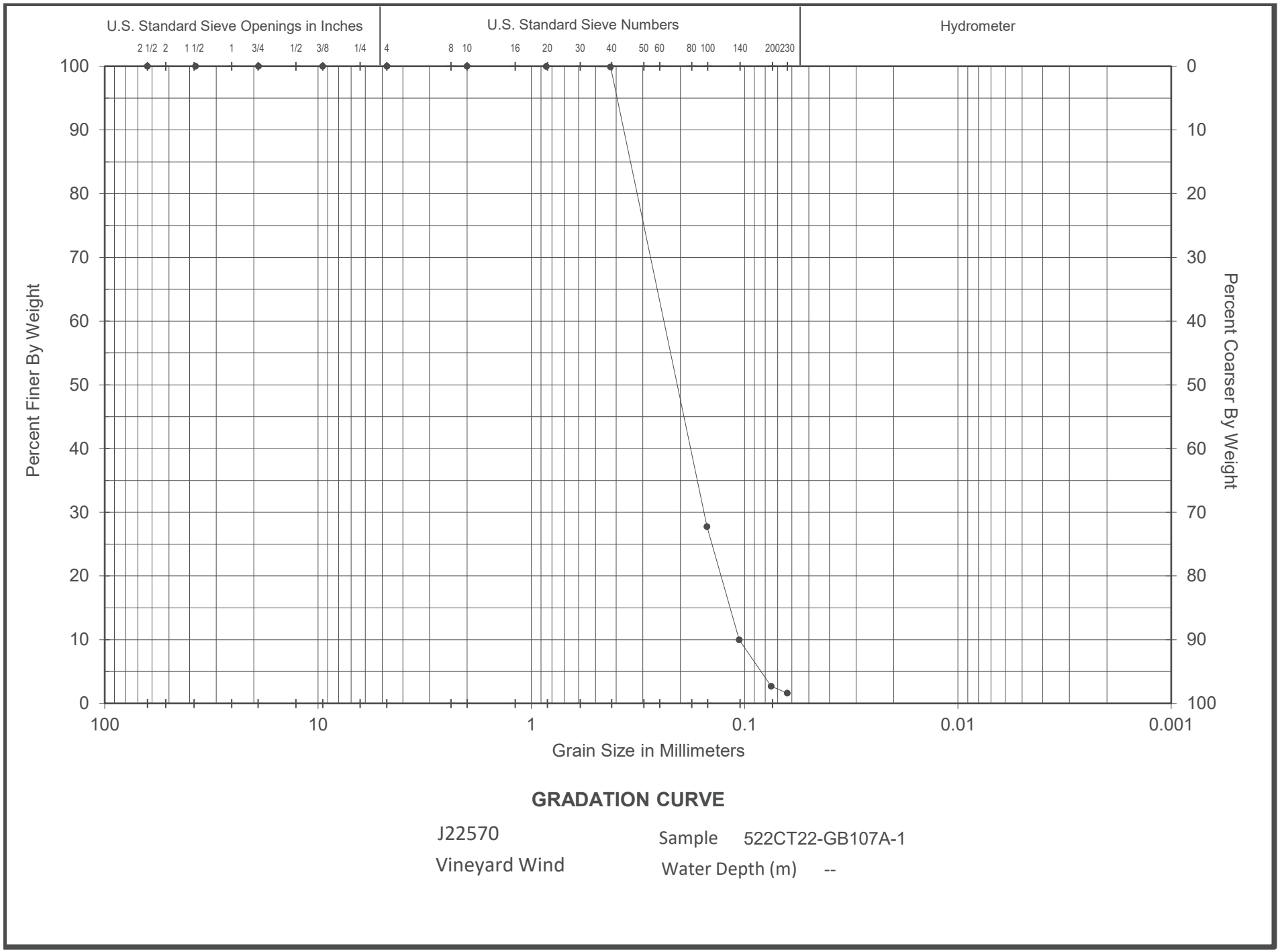
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.98	0.02	100.00
0.85	20	99.96	0.04	
0.425	40	99.88	0.12	
0.15	100	27.72	72.28	
0.106	140	9.98	90.02	
0.075	200	2.69	97.31	
0.063	230	1.60	98.40	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.98
% Passing #230	1.60
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.02
% Sand	0.0625 - 2.00 mm	98.38
% Silt and Clay	< 0.0625 mm	1.60
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.04
% Medium Sand	0.25 - 0.50 mm	0.09
% Fine Sand	0.0625 - 0.25 mm	98.28

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	27.72	0.150	9.98	0.106	0.106
D30	30	99.88	0.425	27.72	0.150	0.155
D50	50	99.88	0.425	27.72	0.150	0.207
D60	60	99.88	0.425	27.72	0.150	0.239

Uniformity Coefficient (Cu)	2.254
Coefficient of Curvature (Cc)	0.948



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB107A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB107B-1
Water Depth (m)	--

Grain Size Data

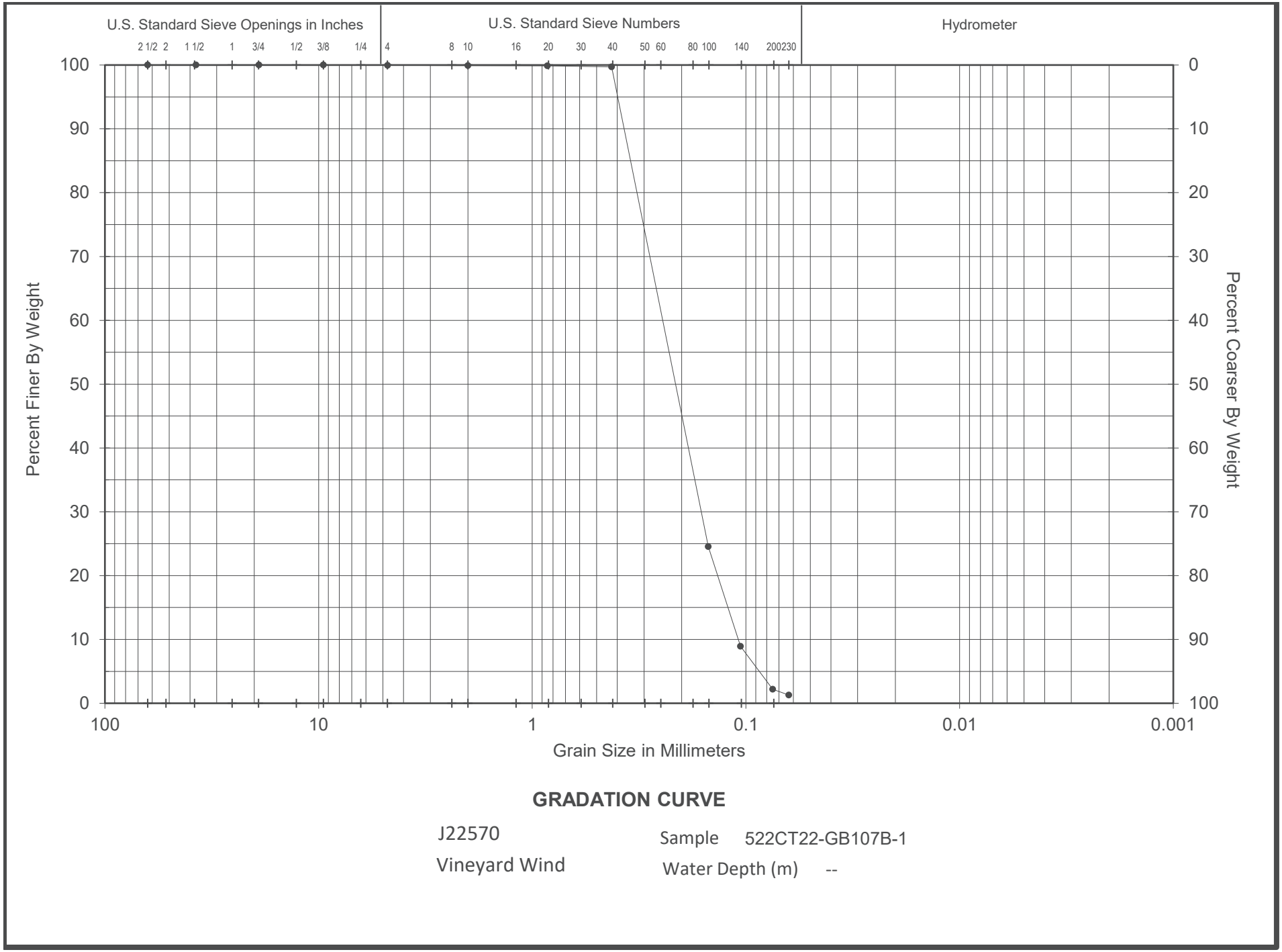
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	99.93	0.07	
2	10	99.91	0.09	100.00
0.85	20	99.87	0.13	
0.425	40	99.70	0.30	
0.15	100	24.55	75.45	
0.106	140	8.93	91.07	
0.075	200	2.20	97.80	
0.063	230	1.29	98.71	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.91
% Passing #230	1.29
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.09
% Sand	0.0625 - 2.00 mm	98.62
% Silt and Clay	< 0.0625 mm	1.29
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.06
% Medium Sand	0.25 - 0.50 mm	0.18
% Fine Sand	0.0625 - 0.25 mm	98.41

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	24.55	0.150	8.93	0.106	0.109
D30	30	99.70	0.425	24.55	0.150	0.162
D50	50	99.70	0.425	24.55	0.150	0.213
D60	60	99.70	0.425	24.55	0.150	0.245

Uniformity Coefficient (Cu)	2.258
Coefficient of Curvature (Cc)	0.983



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB107B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB107C-1
Water Depth (m)	--

Grain Size Data

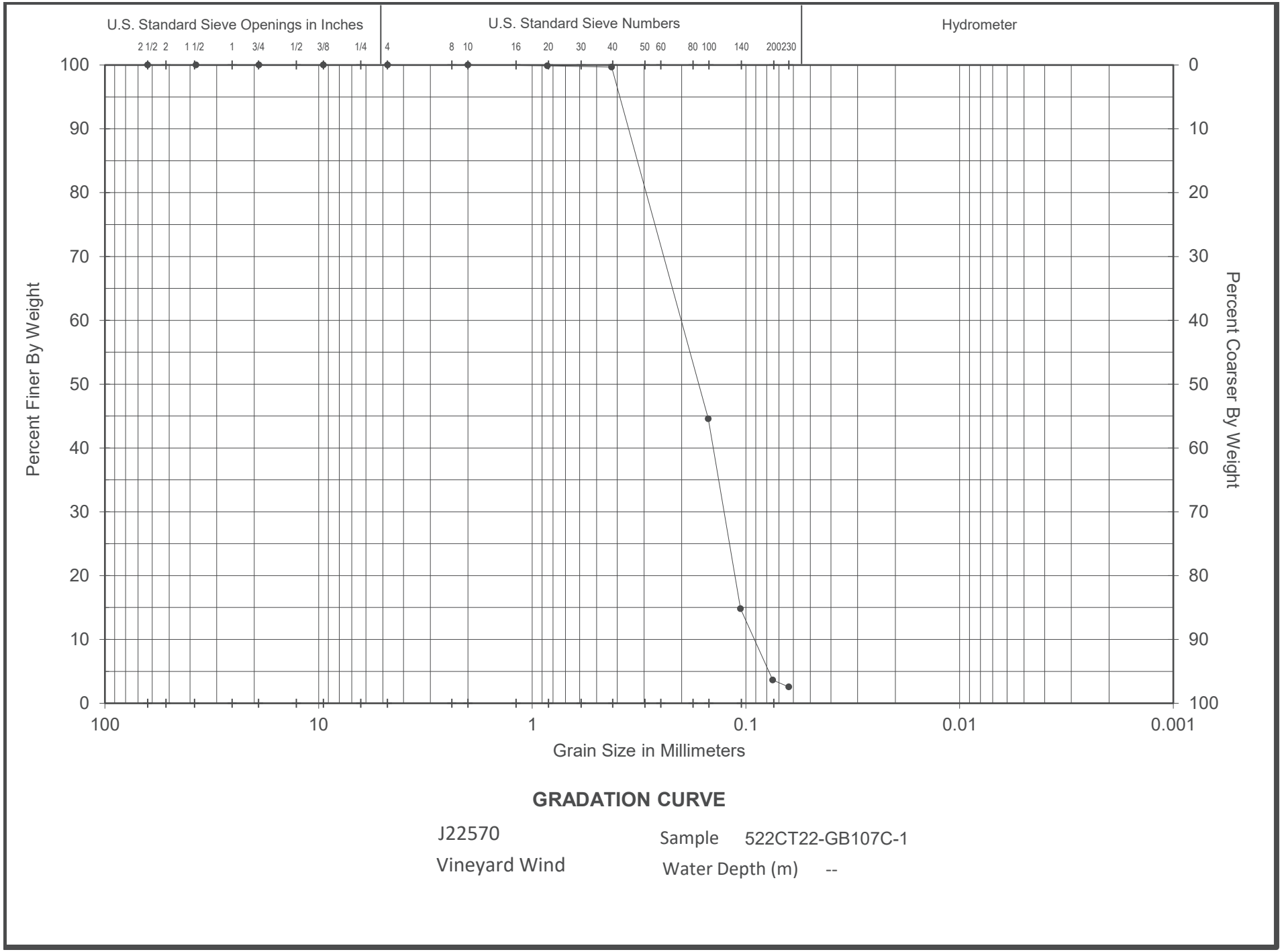
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	100.00	0.00	0.00
0.85	20	99.89	0.11	
0.425	40	99.67	0.33	
0.15	100	44.57	55.43	
0.106	140	14.82	85.18	
0.075	200	3.64	96.36	
0.063	230	2.56	97.44	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	100.00
% Passing #230	2.56
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	97.44
% Silt and Clay	< 0.0625 mm	2.56
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.11
% Medium Sand	0.25 - 0.50 mm	0.22
% Fine Sand	0.0625 - 0.25 mm	97.11

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	14.82	0.106	3.64	0.075	0.091
D30	30	44.57	0.150	14.82	0.106	0.127
D50	50	99.67	0.425	44.57	0.150	0.166
D60	60	99.67	0.425	44.57	0.150	0.201

Uniformity Coefficient (Cu)	2.199
Coefficient of Curvature (Cc)	0.873



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB107C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB108A-1
Water Depth (m)	--

Grain Size Data

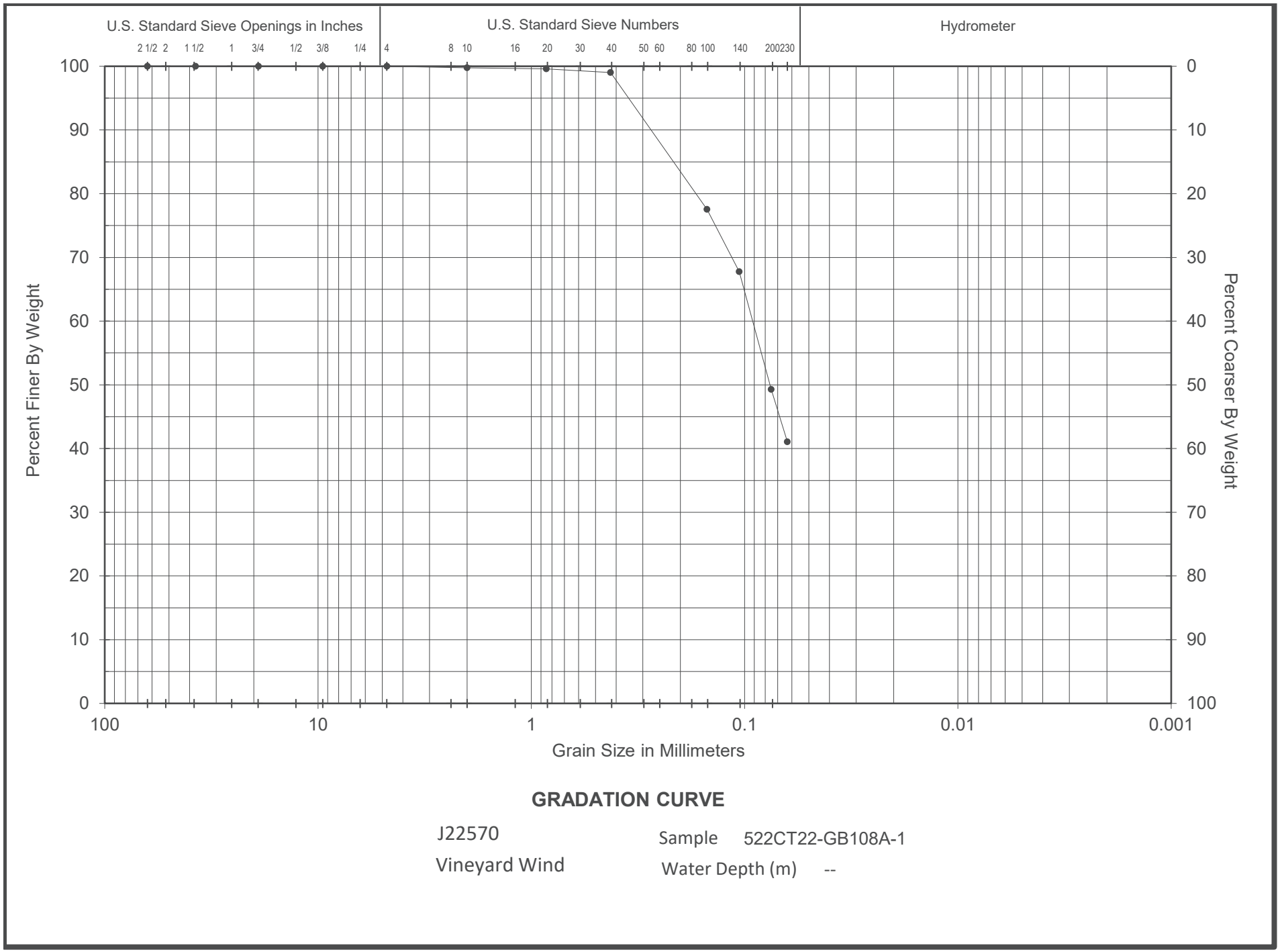
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	100.00	0.00	
2	10	99.75	0.25	100.00
0.85	20	99.60	0.40	
0.425	40	99.02	0.98	
0.15	100	77.55	22.45	
0.106	140	67.77	32.23	
0.075	200	49.30	50.70	
0.063	230	41.04	58.96	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	99.75
% Passing #230	41.04
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.00
% Gravel-Sized Shell	> 2.00 mm	0.25
% Sand	0.0625 - 2.00 mm	58.71
% Silt and Clay	< 0.0625 mm	41.04
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	0.40
% Medium Sand	0.25 - 0.50 mm	0.58
% Fine Sand	0.0625 - 0.25 mm	57.98

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	41.04	0.063	#N/A	#N/A	#N/A
D30	30	41.04	0.063	#N/A	#N/A	#N/A
D50	50	67.77	0.106	49.30	0.075	0.076
D60	60	67.77	0.106	49.30	0.075	0.092

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB108A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB108B-1
Water Depth (m)	--

Grain Size Data

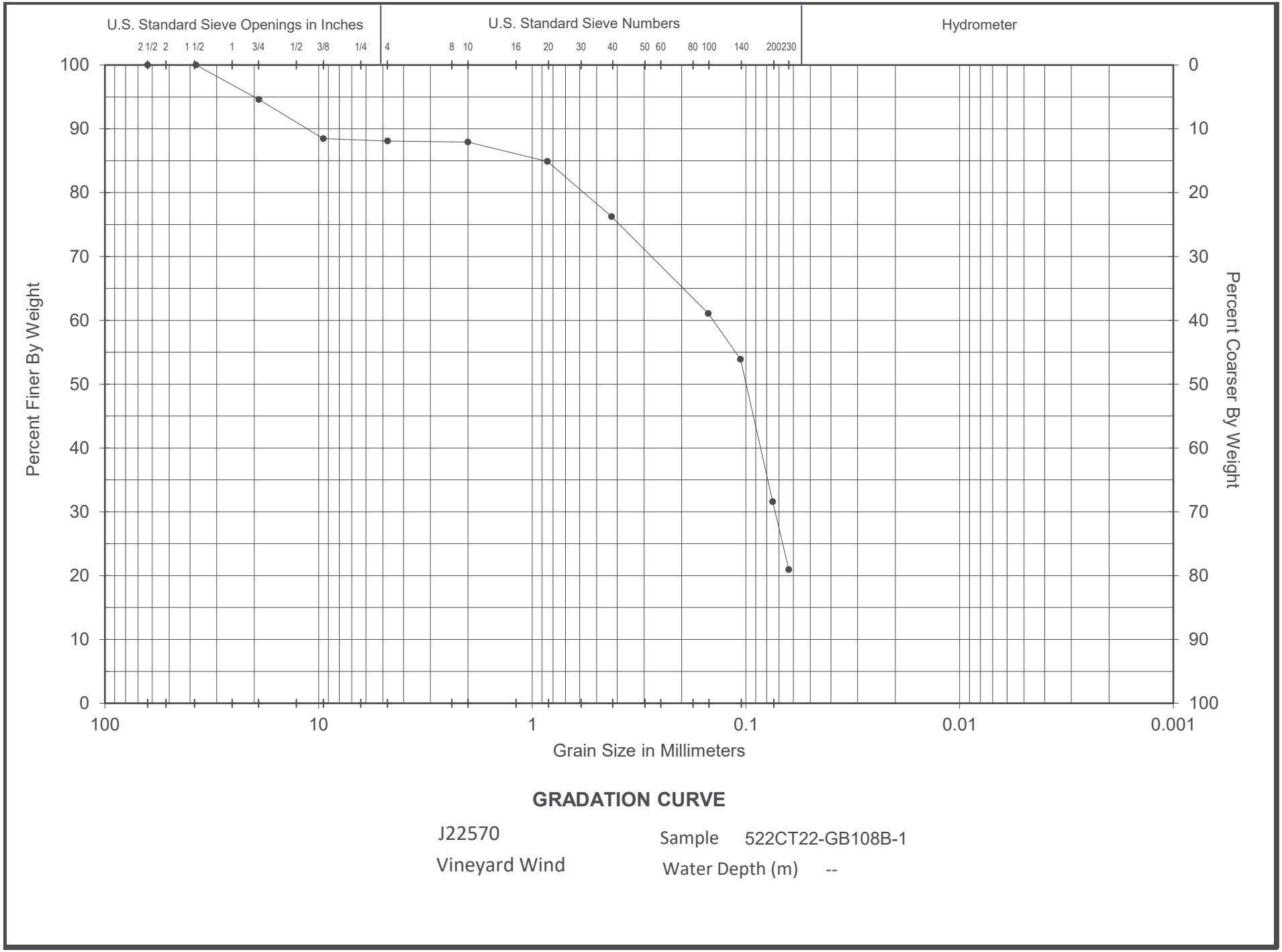
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.59	5.41	
9.5	3/8"	88.48	11.52	
4.75	4	88.10	11.90	
2	10	87.92	12.08	55.23
0.85	20	84.89	15.11	
0.425	40	76.26	23.74	
0.15	100	61.07	38.93	
0.106	140	53.90	46.10	
0.075	200	31.57	68.43	
0.063	230	20.95	79.05	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	87.92
% Passing #230	20.95
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.41
% Gravel-Sized Shell	> 2.00 mm	6.67
% Sand	0.0625 - 2.00 mm	66.97
% Silt and Clay	< 0.0625 mm	20.95
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	3.21
% Medium Sand	0.25 - 0.50 mm	8.63
% Fine Sand	0.0625 - 0.25 mm	55.31

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	20.95	0.063	#N/A	#N/A	#N/A
D30	30	31.57	0.075	20.95	0.063	0.073
D50	50	53.90	0.106	31.57	0.075	0.100
D60	60	61.07	0.150	53.90	0.106	0.142

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB108B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB108C-1
Water Depth (m)	--

Grain Size Data

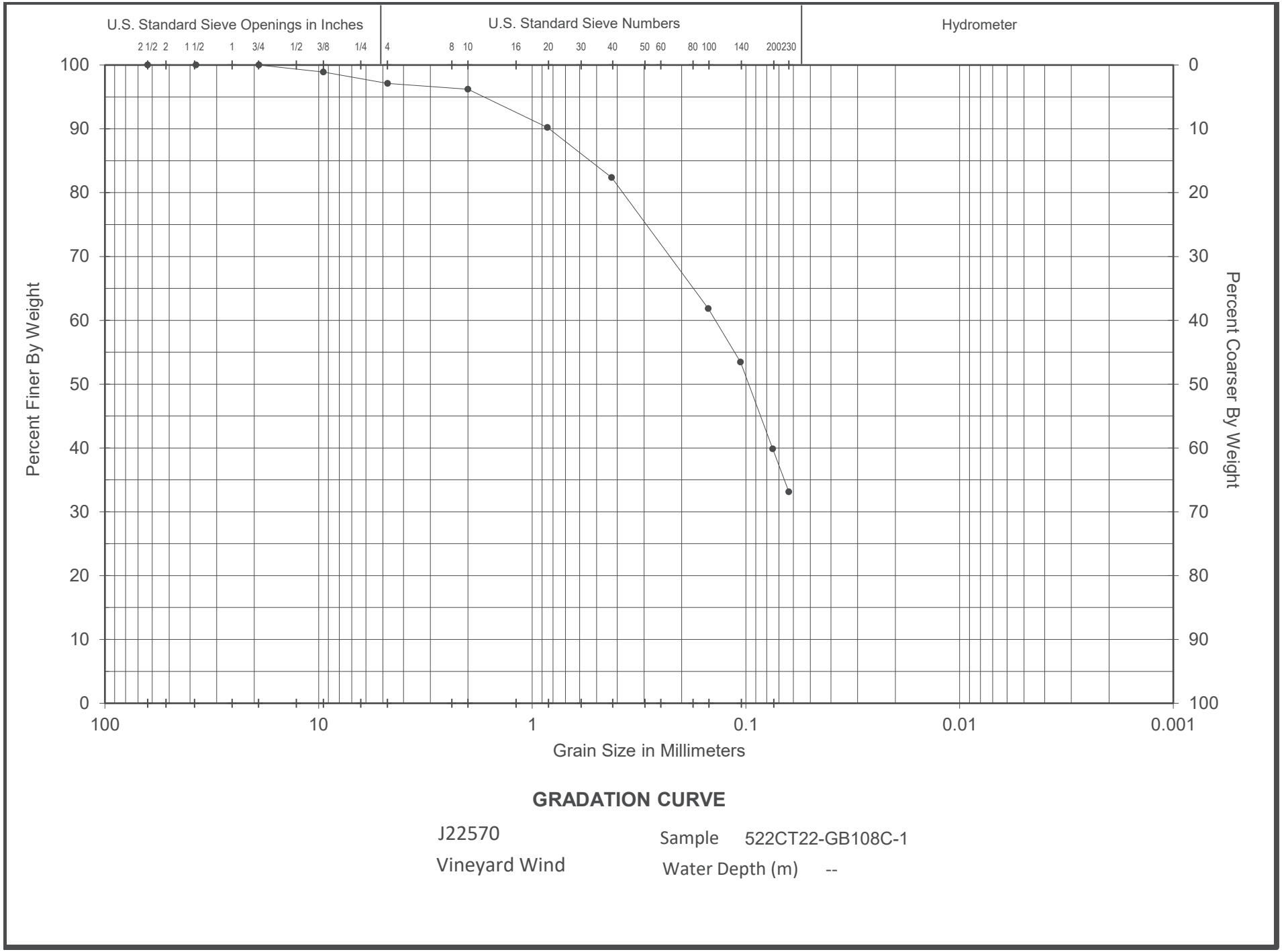
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	98.90	1.10	
4.75	4	97.13	2.87	
2	10	96.19	3.81	89.33
0.85	20	90.21	9.79	
0.425	40	82.38	17.62	
0.15	100	61.82	38.18	
0.106	140	53.46	46.54	
0.075	200	39.86	60.14	
0.063	230	33.14	66.86	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.19
% Passing #230	33.14
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.41
% Gravel-Sized Shell	> 2.00 mm	3.40
% Sand	0.0625 - 2.00 mm	63.05
% Silt and Clay	< 0.0625 mm	33.14
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.91
% Medium Sand	0.25 - 0.50 mm	7.83
% Fine Sand	0.0625 - 0.25 mm	49.24

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	33.14	0.063	#N/A	#N/A	#N/A
D30	30	33.14	0.063	#N/A	#N/A	#N/A
D50	50	53.46	0.106	39.86	0.075	0.097
D60	60	61.82	0.150	53.46	0.106	0.139

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB108C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB109A-1
Water Depth (m)	--

Grain Size Data

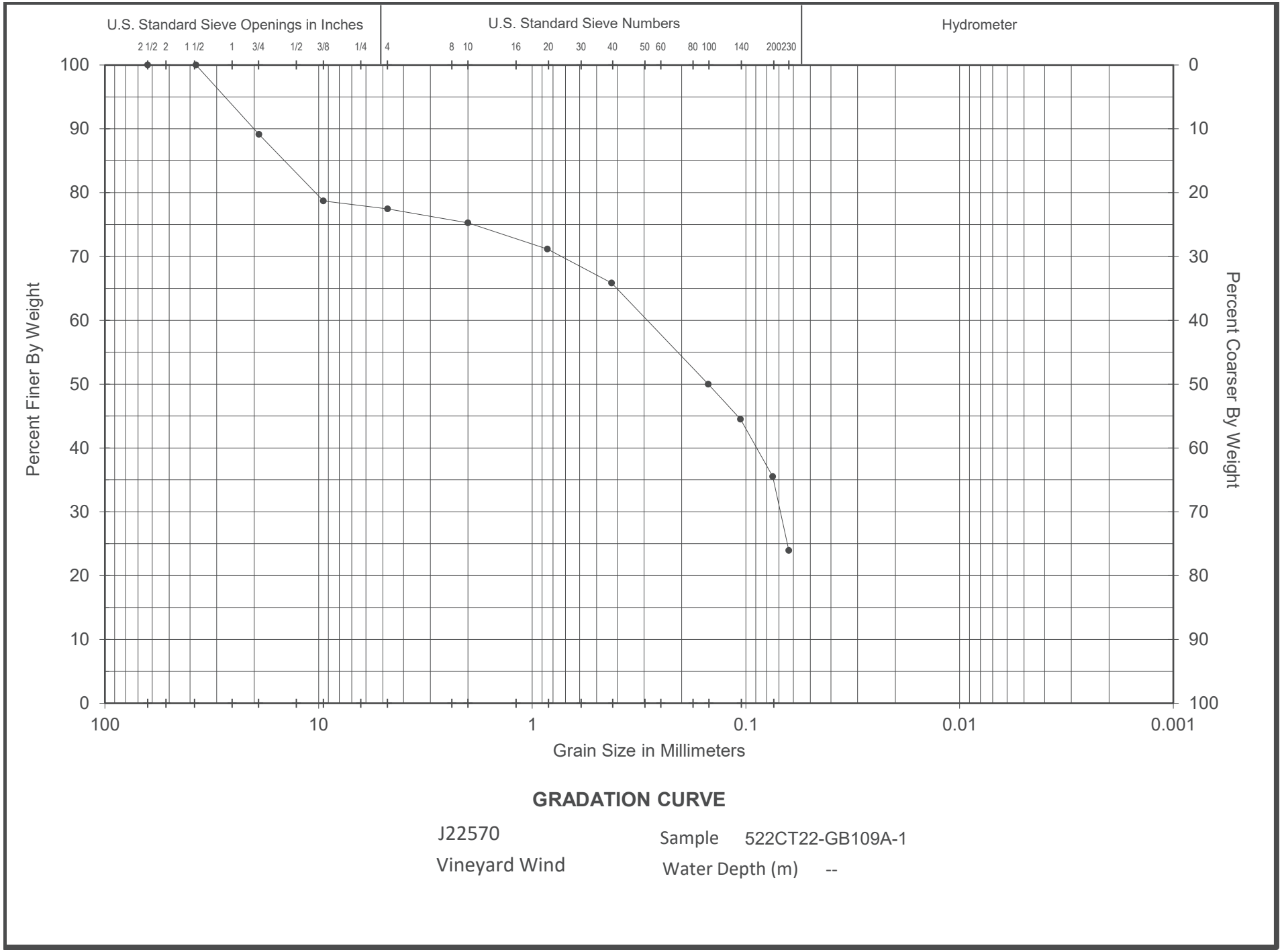
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	89.15	10.85	
9.5	3/8"	78.71	21.29	
4.75	4	77.44	22.56	
2	10	75.26	24.74	57.89
0.85	20	71.16	28.84	
0.425	40	65.85	34.15	
0.15	100	50.01	49.99	
0.106	140	44.51	55.49	
0.075	200	35.52	64.48	
0.063	230	23.93	76.07	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	75.26
% Passing #230	23.93
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	10.42
% Gravel-Sized Shell	> 2.00 mm	14.32
% Sand	0.0625 - 2.00 mm	51.33
% Silt and Clay	< 0.0625 mm	23.93
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.28
% Medium Sand	0.25 - 0.50 mm	5.31
% Fine Sand	0.0625 - 0.25 mm	41.92

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	23.93	0.063	#N/A	#N/A	#N/A
D30	30	35.52	0.075	23.93	0.063	0.069
D50	50	50.01	0.150	44.51	0.106	0.150
D60	60	65.85	0.425	50.01	0.150	0.289

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB109A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB109B-1
Water Depth (m)	--

Grain Size Data

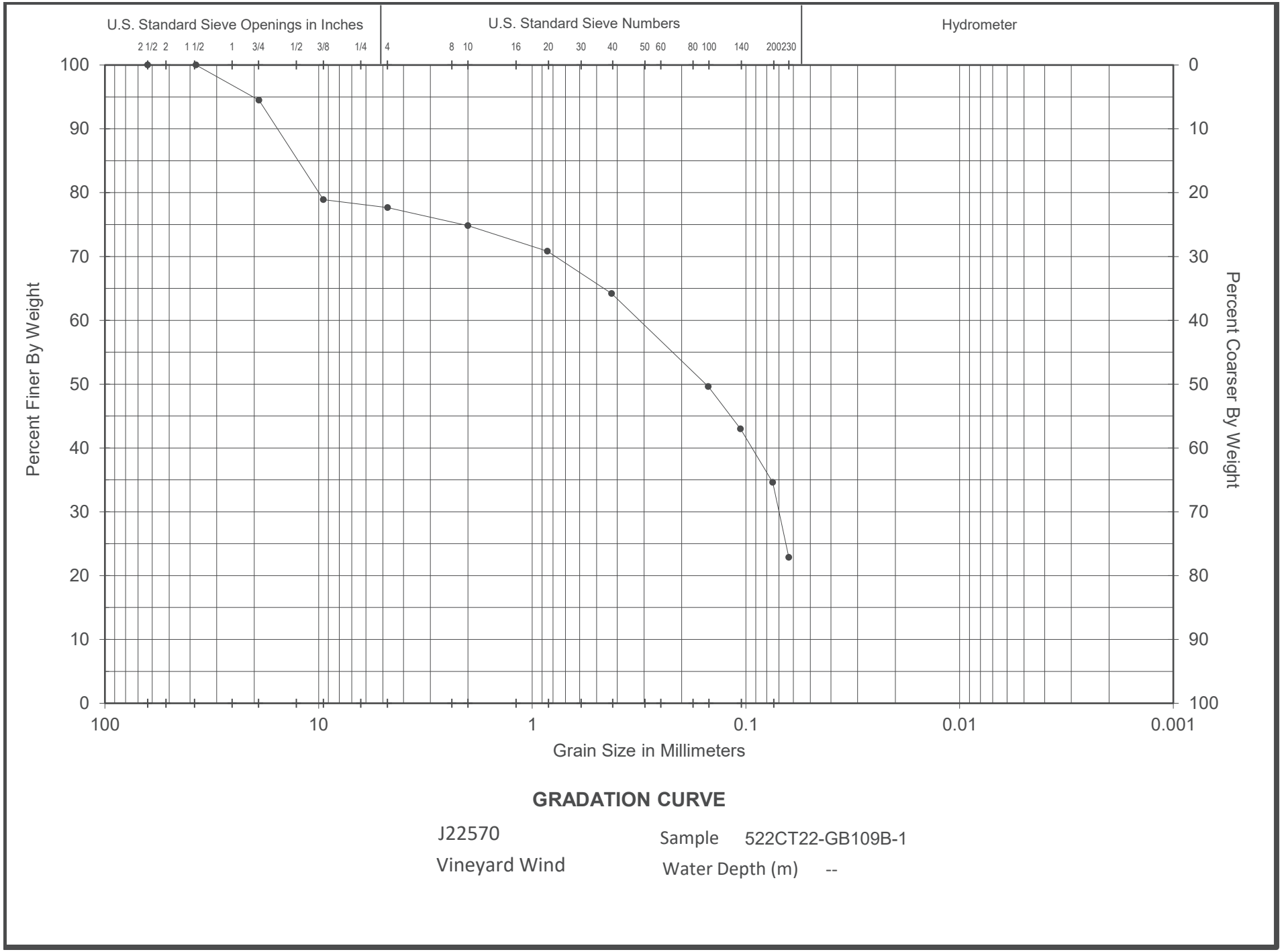
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	94.48	5.52	
9.5	3/8"	78.90	21.10	
4.75	4	77.66	22.34	
2	10	74.85	25.15	89.38
0.85	20	70.82	29.18	
0.425	40	64.18	35.82	
0.15	100	49.62	50.38	
0.106	140	42.97	57.03	
0.075	200	34.61	65.39	
0.063	230	22.84	77.16	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	74.85
% Passing #230	22.84
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	2.67
% Gravel-Sized Shell	> 2.00 mm	22.48
% Sand	0.0625 - 2.00 mm	52.00
% Silt and Clay	< 0.0625 mm	22.84
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	6.84
% Medium Sand	0.25 - 0.50 mm	6.64
% Fine Sand	0.0625 - 0.25 mm	41.34

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	22.84	0.063	#N/A	#N/A	#N/A
D30	30	34.61	0.075	22.84	0.063	0.070
D50	50	64.18	0.425	49.62	0.150	0.154
D60	60	64.18	0.425	49.62	0.150	0.315

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB109B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB109C-1
Water Depth (m)	--

Grain Size Data

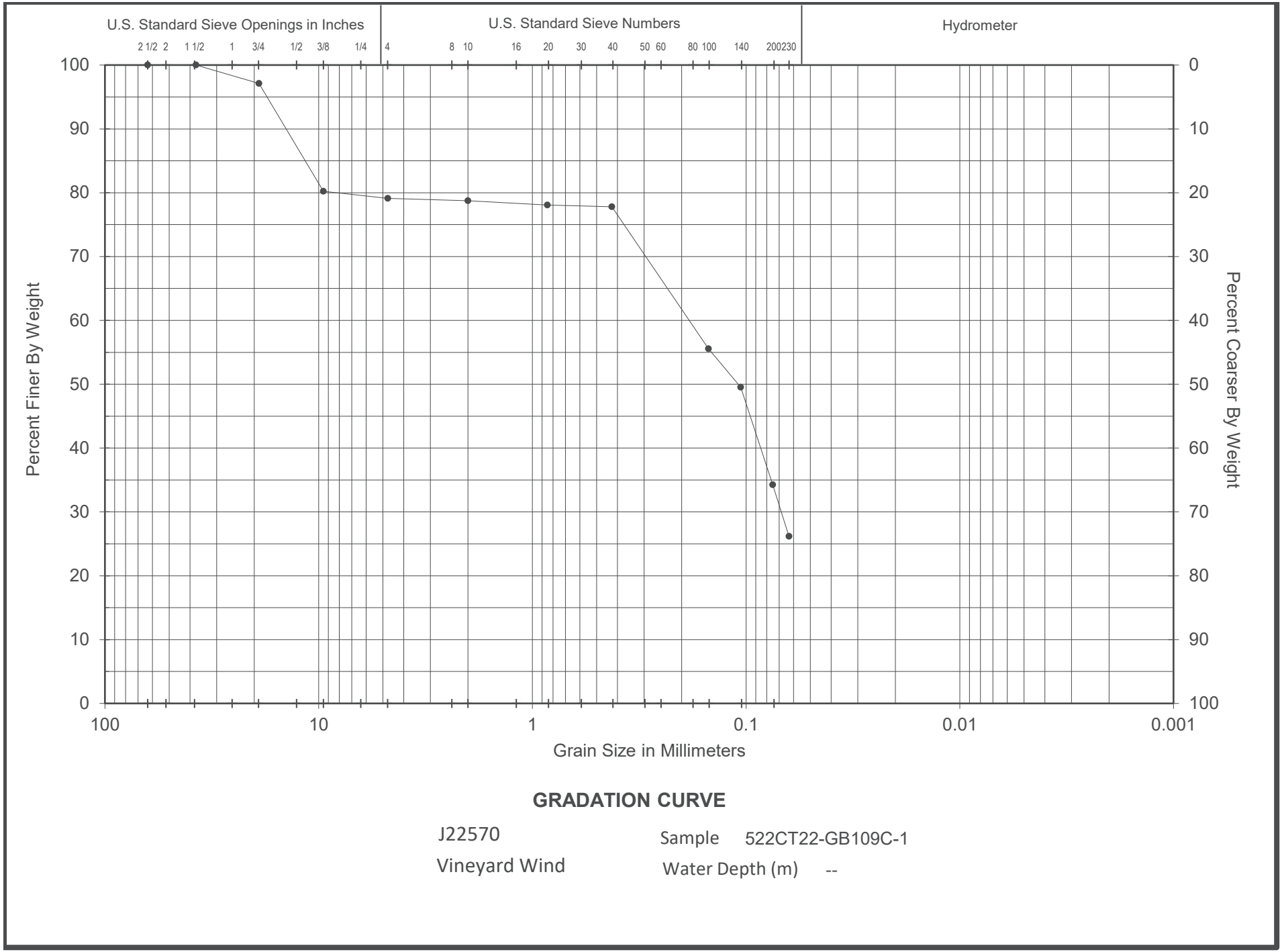
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	97.12	2.88	
9.5	3/8"	80.24	19.76	
4.75	4	79.13	20.87	
2	10	78.76	21.24	96.90
0.85	20	78.08	21.92	
0.425	40	77.79	22.21	
0.15	100	55.57	44.43	
0.106	140	49.52	50.48	
0.075	200	34.26	65.74	
0.063	230	26.17	73.83	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	78.76
% Passing #230	26.17
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	0.66
% Gravel-Sized Shell	> 2.00 mm	20.58
% Sand	0.0625 - 2.00 mm	52.59
% Silt and Clay	< 0.0625 mm	26.17
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	1.05
% Medium Sand	0.25 - 0.50 mm	0.29
% Fine Sand	0.0625 - 0.25 mm	51.62

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	26.17	0.063	#N/A	#N/A	#N/A
D30	30	34.26	0.075	26.17	0.063	0.068
D50	50	55.57	0.150	49.52	0.106	0.109
D60	60	77.79	0.425	55.57	0.150	0.185

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB109C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB110A-1
Water Depth (m)	--

Grain Size Data

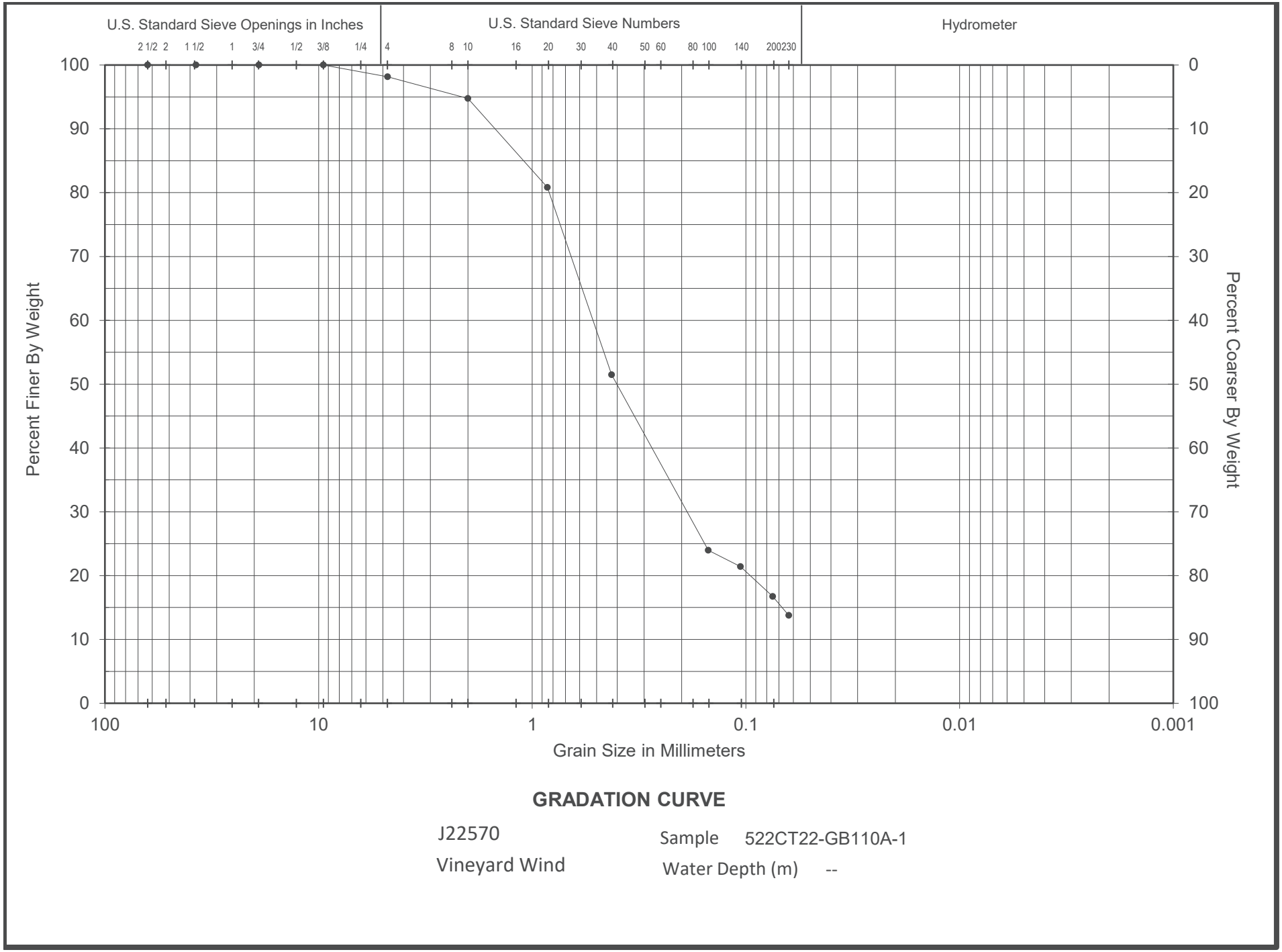
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.14	1.86	
2	10	94.77	5.23	0.83
0.85	20	80.84	19.16	
0.425	40	51.46	48.54	
0.15	100	23.97	76.03	
0.106	140	21.41	78.59	
0.075	200	16.74	83.26	
0.063	230	13.76	86.24	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.77
% Passing #230	13.76
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.18
% Gravel-Sized Shell	> 2.00 mm	0.04
% Sand	0.0625 - 2.00 mm	81.02
% Silt and Clay	< 0.0625 mm	13.76
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	17.31
% Medium Sand	0.25 - 0.50 mm	29.38
% Fine Sand	0.0625 - 0.25 mm	37.70

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	13.76	0.063	#N/A	#N/A	#N/A
D30	30	51.46	0.425	23.97	0.150	0.189
D50	50	51.46	0.425	23.97	0.150	0.402
D60	60	80.84	0.850	51.46	0.425	0.520

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB110A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB110B-1
Water Depth (m)	--

Grain Size Data

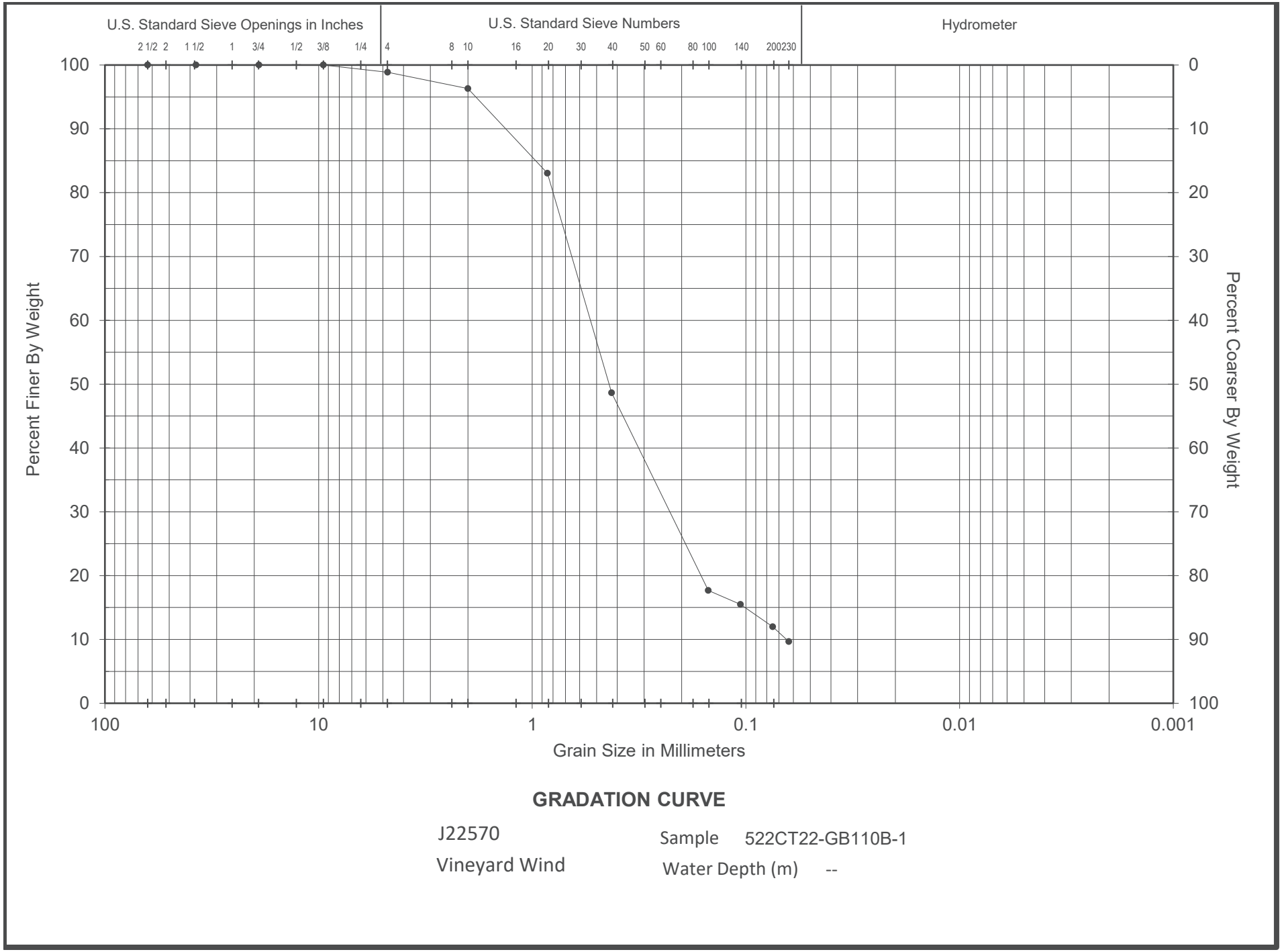
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.88	1.12	
2	10	96.31	3.69	0.00
0.85	20	83.03	16.97	
0.425	40	48.66	51.34	
0.15	100	17.69	82.31	
0.106	140	15.48	84.52	
0.075	200	11.97	88.03	
0.063	230	9.66	90.34	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.31
% Passing #230	9.66
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	3.69
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	86.65
% Silt and Clay	< 0.0625 mm	9.66
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	15.85
% Medium Sand	0.25 - 0.50 mm	34.38
% Fine Sand	0.0625 - 0.25 mm	39.00

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.97	0.075	9.66	0.063	0.065
D30	30	48.66	0.425	17.69	0.150	0.227
D50	50	83.03	0.850	48.66	0.425	0.437
D60	60	83.03	0.850	48.66	0.425	0.534

Uniformity Coefficient (Cu)	8.266
Coefficient of Curvature (Cc)	1.492



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB110B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB110C-1
Water Depth (m)	--

Grain Size Data

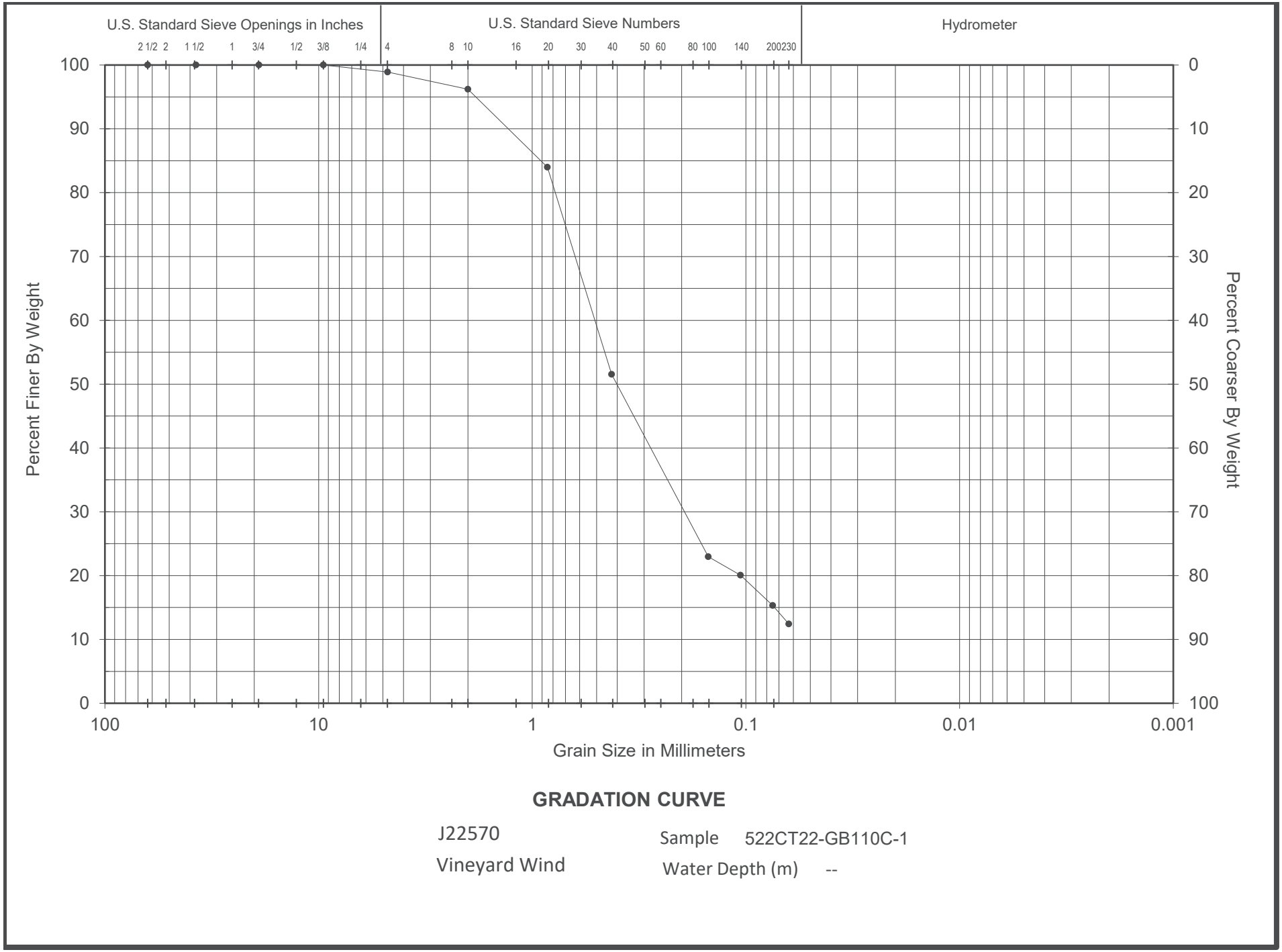
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.89	1.11	
2	10	96.19	3.81	0.00
0.85	20	83.98	16.02	
0.425	40	51.55	48.45	
0.15	100	22.95	77.05	
0.106	140	20.06	79.94	
0.075	200	15.33	84.67	
0.063	230	12.43	87.57	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	96.19
% Passing #230	12.43
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	3.81
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	83.76
% Silt and Clay	< 0.0625 mm	12.43
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	14.91
% Medium Sand	0.25 - 0.50 mm	32.43
% Fine Sand	0.0625 - 0.25 mm	39.13

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	12.43	0.063	#N/A	#N/A	#N/A
D30	30	51.55	0.425	22.95	0.150	0.194
D50	50	51.55	0.425	22.95	0.150	0.402
D60	60	83.98	0.850	51.55	0.425	0.509

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB110C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB111A-1
Water Depth (m)	--

Grain Size Data

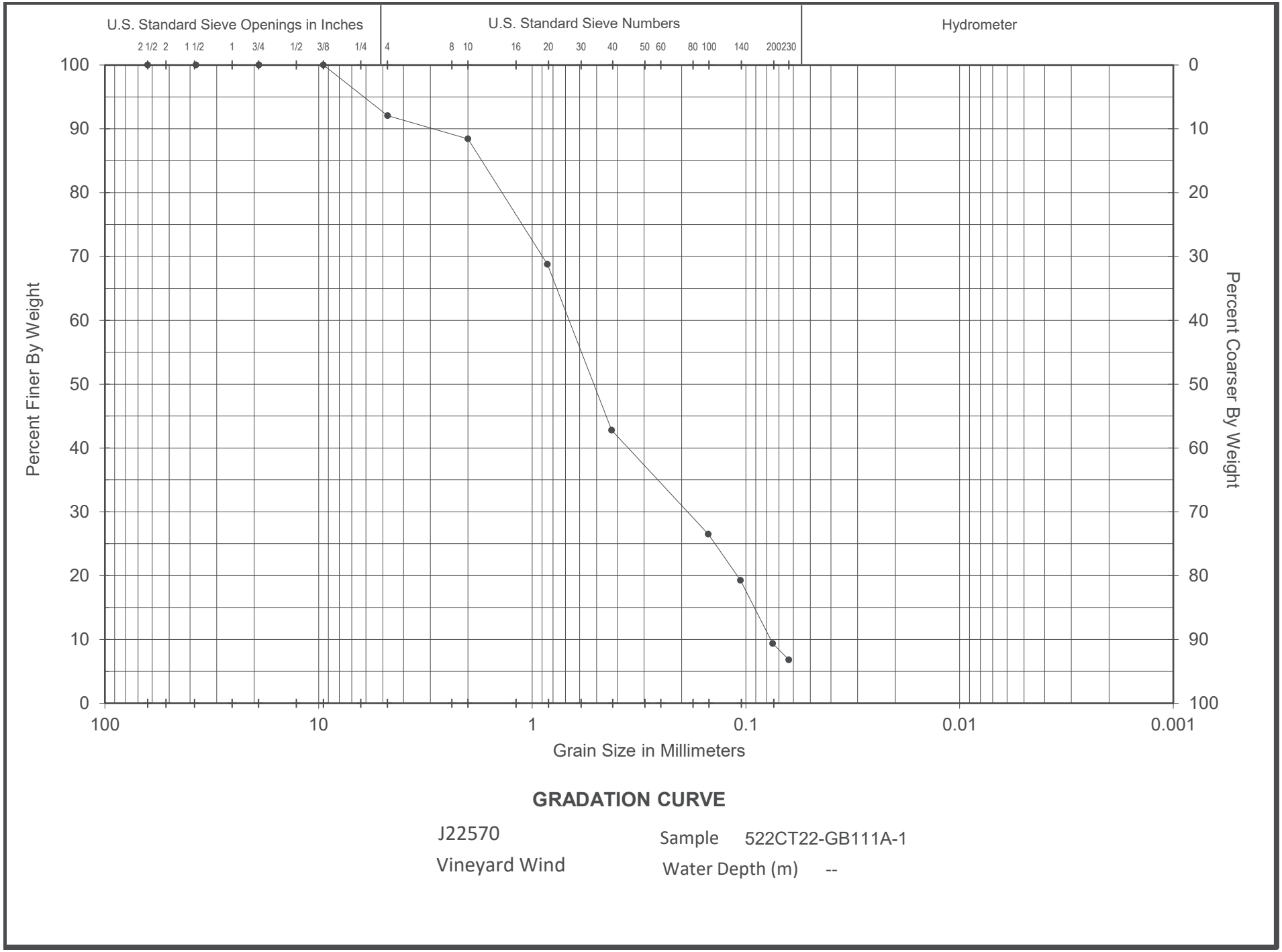
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	92.08	7.92	
2	10	88.42	11.58	23.31
0.85	20	68.77	31.23	
0.425	40	42.78	57.22	
0.15	100	26.51	73.49	
0.106	140	19.24	80.76	
0.075	200	9.37	90.63	
0.063	230	6.82	93.18	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	88.42
% Passing #230	6.82
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	8.88
% Gravel-Sized Shell	> 2.00 mm	2.70
% Sand	0.0625 - 2.00 mm	81.61
% Silt and Clay	< 0.0625 mm	6.82
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	23.31
% Medium Sand	0.25 - 0.50 mm	25.99
% Fine Sand	0.0625 - 0.25 mm	35.96

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	19.24	0.106	9.37	0.075	0.077
D30	30	42.78	0.425	26.51	0.150	0.188
D50	50	68.77	0.850	42.78	0.425	0.515
D60	60	68.77	0.850	42.78	0.425	0.673

Uniformity Coefficient (Cu)	8.774
Coefficient of Curvature (Cc)	0.682



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB111A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB111B-1
Water Depth (m)	--

Grain Size Data

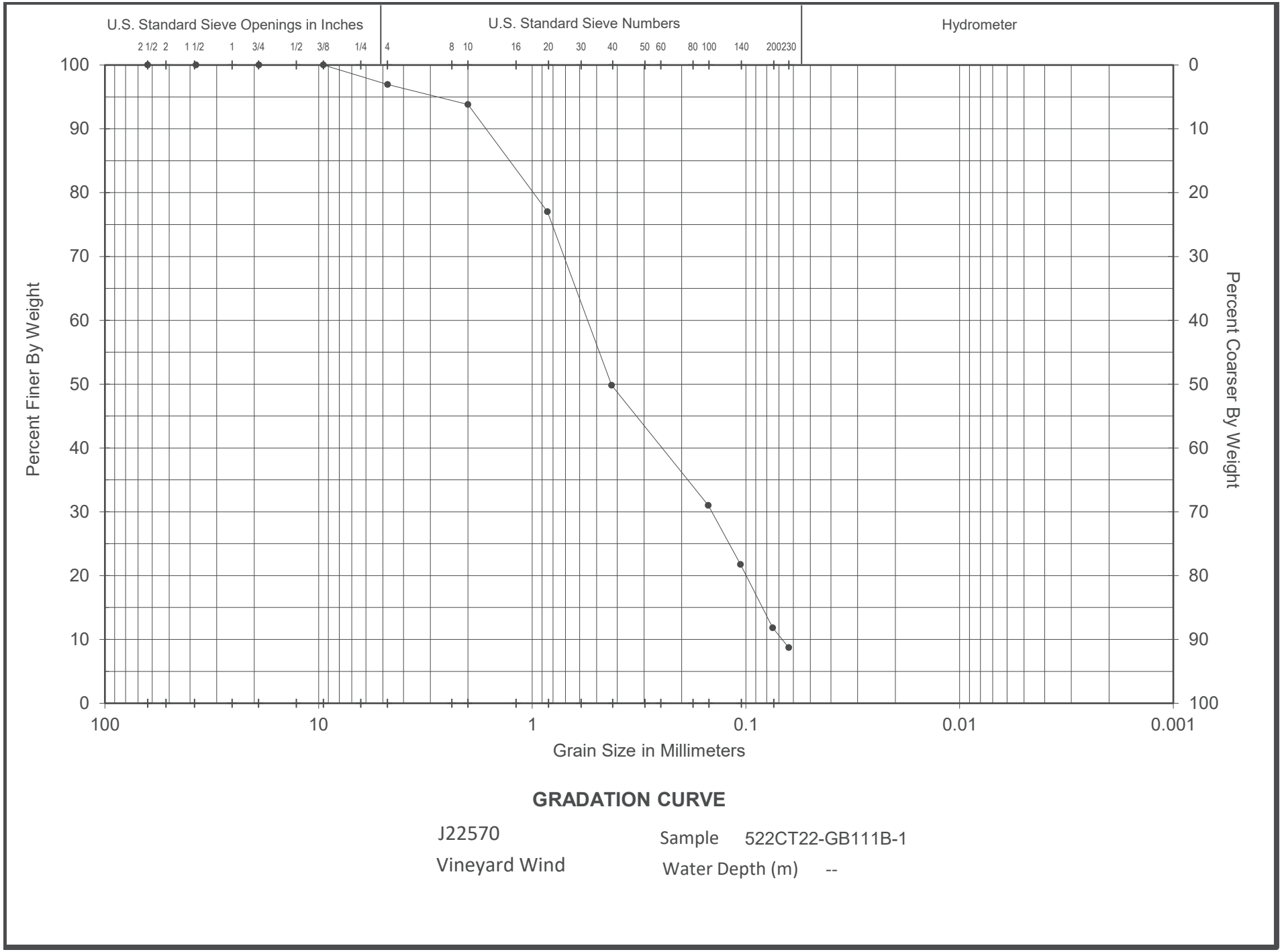
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	96.96	3.04	
2	10	93.83	6.17	11.39
0.85	20	77.03	22.97	
0.425	40	49.81	50.19	
0.15	100	31.00	69.00	
0.106	140	21.76	78.24	
0.075	200	11.83	88.17	
0.063	230	8.71	91.29	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	93.83
% Passing #230	8.71
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	5.47
% Gravel-Sized Shell	> 2.00 mm	0.70
% Sand	0.0625 - 2.00 mm	85.12
% Silt and Clay	< 0.0625 mm	8.71
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	19.93
% Medium Sand	0.25 - 0.50 mm	27.22
% Fine Sand	0.0625 - 0.25 mm	41.10

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.83	0.075	8.71	0.063	0.068
D30	30	31.00	0.150	21.76	0.106	0.144
D50	50	77.03	0.850	49.81	0.425	0.427
D60	60	77.03	0.850	49.81	0.425	0.551

Uniformity Coefficient (Cu)	8.137
Coefficient of Curvature (Cc)	0.560



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB111B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB111C-1
Water Depth (m)	--

Grain Size Data

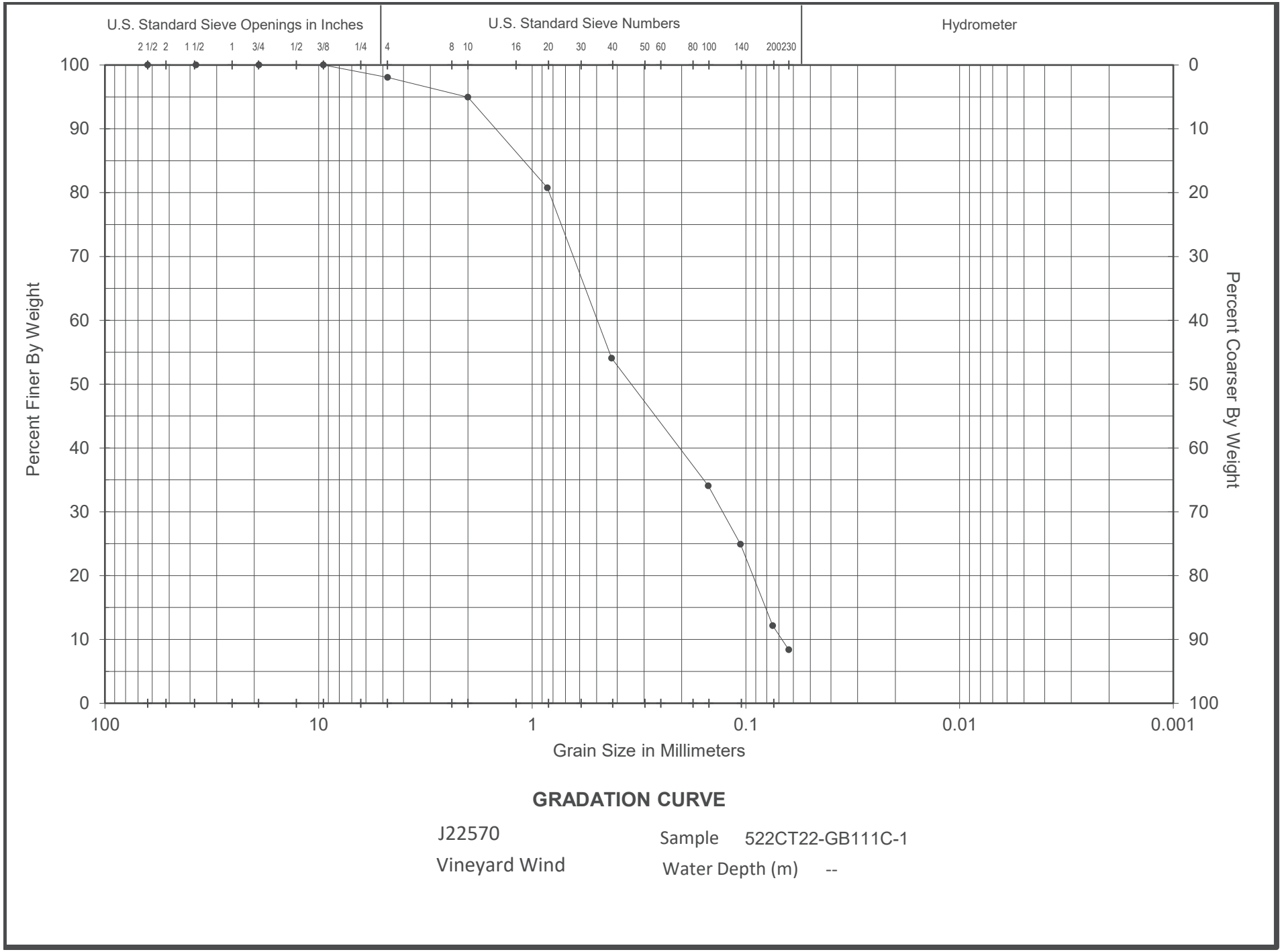
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	98.06	1.94	
2	10	94.97	5.03	4.21
0.85	20	80.75	19.25	
0.425	40	54.05	45.95	
0.15	100	34.07	65.93	
0.106	140	24.91	75.09	
0.075	200	12.16	87.84	
0.063	230	8.37	91.63	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	94.97
% Passing #230	8.37
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	4.82
% Gravel-Sized Shell	> 2.00 mm	0.21
% Sand	0.0625 - 2.00 mm	86.60
% Silt and Clay	< 0.0625 mm	8.37
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	17.31
% Medium Sand	0.25 - 0.50 mm	26.70
% Fine Sand	0.0625 - 0.25 mm	45.68

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(Next\ Larger\ \%Finer)}$ (mm)	Next Smaller %Finer	$D_{(Next\ Smaller\ \%Finer)}$ (mm)	Grain Size (mm)
D10	10	12.16	0.075	8.37	0.063	0.068
D30	30	34.07	0.150	24.91	0.106	0.129
D50	50	54.05	0.425	34.07	0.150	0.344
D60	60	80.75	0.850	54.05	0.425	0.496

Uniformity Coefficient (Cu)	7.304
Coefficient of Curvature (Cc)	0.491



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB111C-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB112A-1
Water Depth (m)	--

Grain Size Data

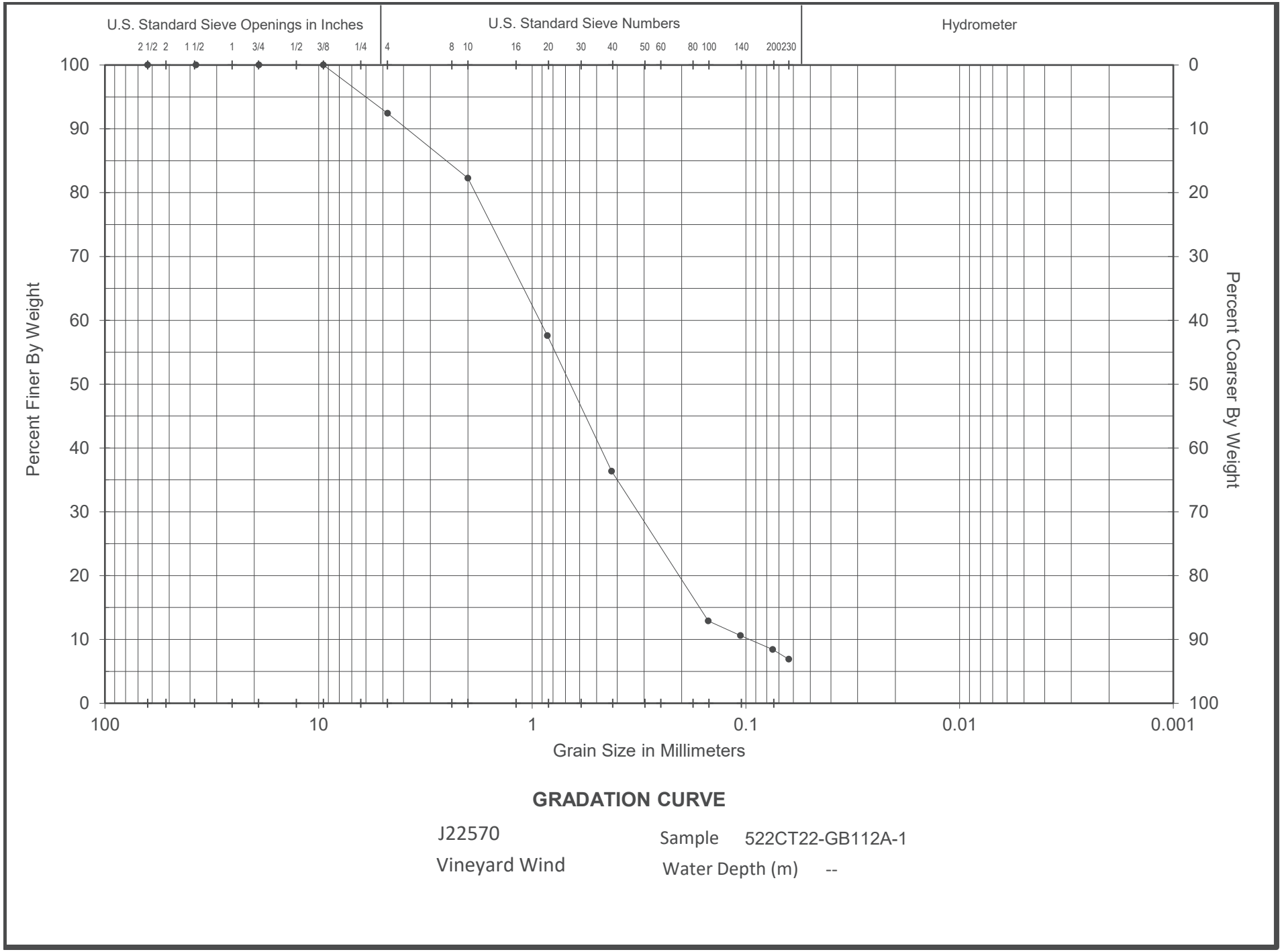
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	92.43	7.57	
2	10	82.26	17.74	0.45
0.85	20	57.61	42.39	
0.425	40	36.35	63.65	
0.15	100	12.90	87.10	
0.106	140	10.60	89.40	
0.075	200	8.42	91.58	
0.063	230	6.89	93.11	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	82.26
% Passing #230	6.89
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	17.66
% Gravel-Sized Shell	> 2.00 mm	0.08
% Sand	0.0625 - 2.00 mm	75.38
% Silt and Clay	< 0.0625 mm	6.89
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	34.81
% Medium Sand	0.25 - 0.50 mm	21.27
% Fine Sand	0.0625 - 0.25 mm	29.46

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.60	0.106	8.42	0.075	0.096
D30	30	36.35	0.425	12.90	0.150	0.321
D50	50	57.61	0.850	36.35	0.425	0.663
D60	60	82.26	2.000	57.61	0.850	0.923

Uniformity Coefficient (Cu)	9.582
Coefficient of Curvature (Cc)	1.155



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB112A-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB112B-1
Water Depth (m)	--

Grain Size Data

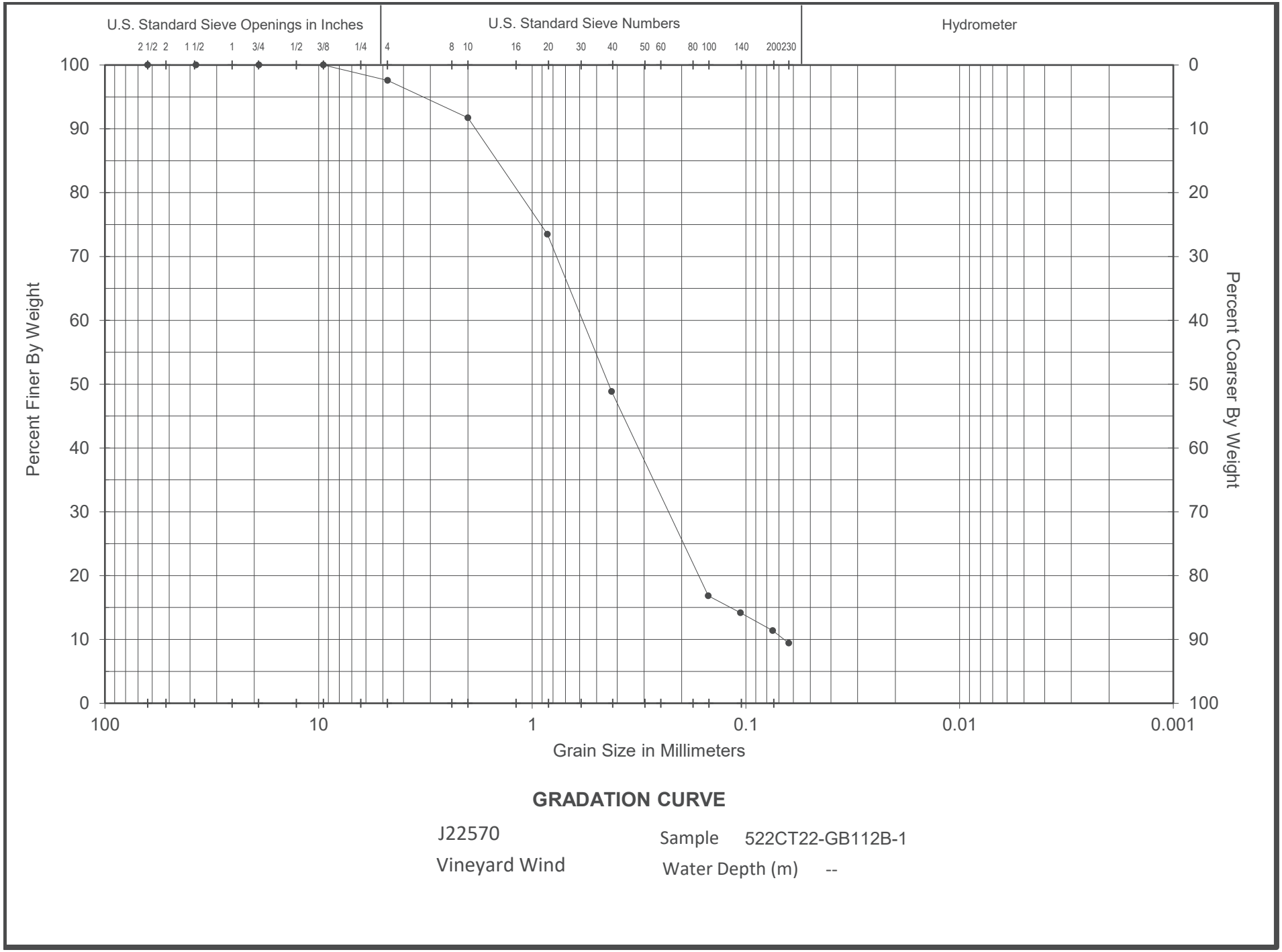
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	97.60	2.40	
2	10	91.72	8.28	0.00
0.85	20	73.47	26.53	
0.425	40	48.85	51.15	
0.15	100	16.84	83.16	
0.106	140	14.17	85.83	
0.075	200	11.40	88.60	
0.063	230	9.42	90.58	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	91.72
% Passing #230	9.42
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	8.28
% Gravel-Sized Shell	> 2.00 mm	0.00
% Sand	0.0625 - 2.00 mm	82.30
% Silt and Clay	< 0.0625 mm	9.42
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.12
% Medium Sand	0.25 - 0.50 mm	24.62
% Fine Sand	0.0625 - 0.25 mm	39.43

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	11.40	0.075	9.42	0.063	0.066
D30	30	48.85	0.425	16.84	0.150	0.230
D50	50	73.47	0.850	48.85	0.425	0.439
D60	60	73.47	0.850	48.85	0.425	0.582

Uniformity Coefficient (Cu)	8.772
Coefficient of Curvature (Cc)	1.373



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB112B-1

Water Depth (m) --

GRAIN SIZE DATA RESULTS

Job Number	J22570
Client	Vineyard Wind Northeast
Job Description	0
Sample ID	522CT22-GB112C-1
Water Depth (m)	--

Grain Size Data

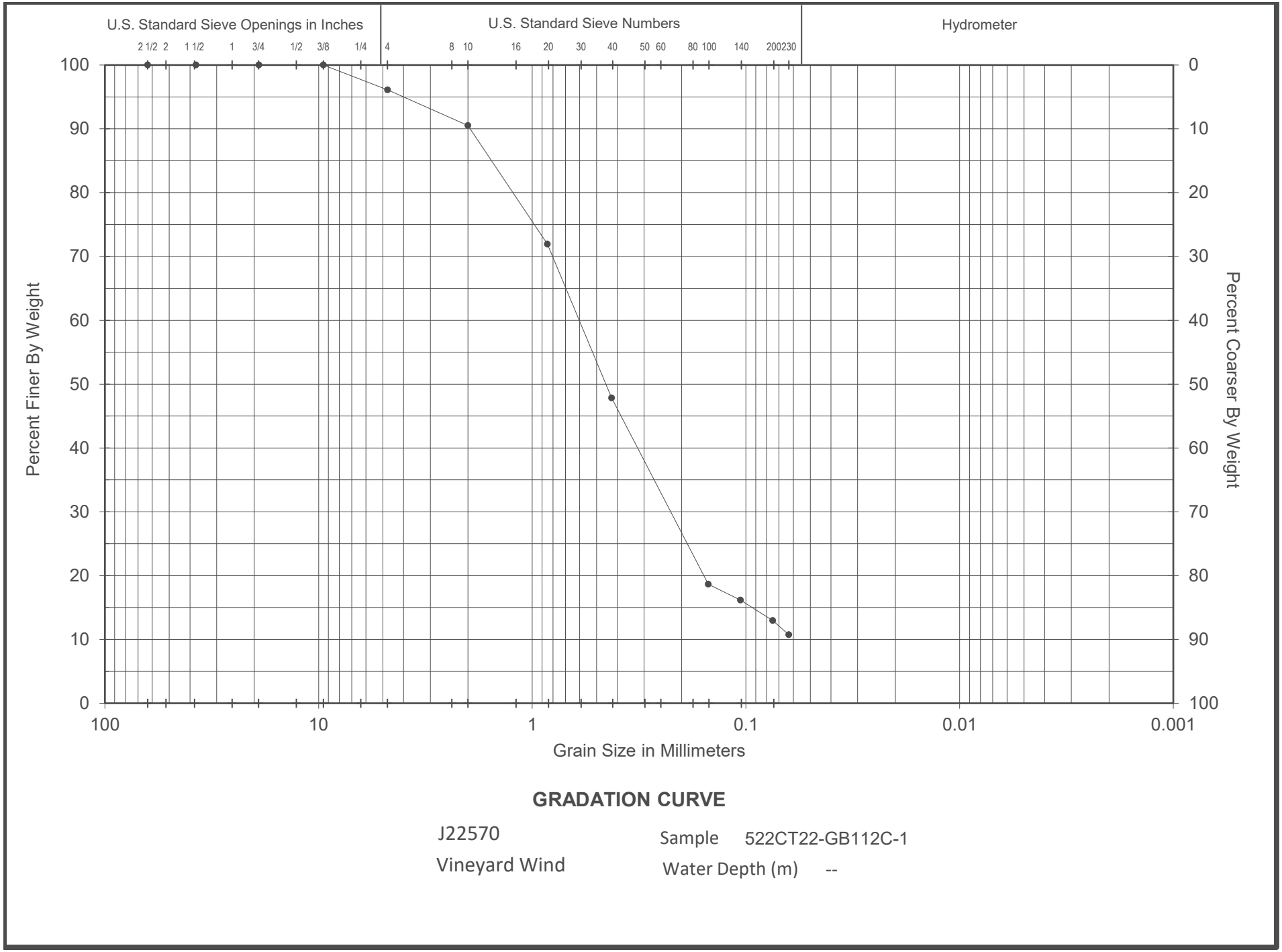
D (mm)	Sieve #	% Finer	% Greater	% Shell in Gravel
63	2.5"	100.00	0.00	
37.5	1.5"	100.00	0.00	
19	3/4"	100.00	0.00	
9.5	3/8"	100.00	0.00	
4.75	4	96.11	3.89	
2	10	90.51	9.49	0.52
0.85	20	71.93	28.07	
0.425	40	47.83	52.17	
0.15	100	18.65	81.35	
0.106	140	16.16	83.84	
0.075	200	12.98	87.02	
0.063	230	10.73	89.27	
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		
0.0000		#VALUE!		

% Passing #10	90.51
% Passing #230	10.73
% Pass 2µ	#VALUE!

Particle Size		
% Gravel	> 2.00 mm	9.44
% Gravel-Sized Shell	> 2.00 mm	0.05
% Sand	0.0625 - 2.00 mm	79.78
% Silt and Clay	< 0.0625 mm	10.73
% Silt	0.002 - 0.0625 mm	#VALUE!
% Clay	<0.002 mm	#VALUE!
% Coarse Sand	0.5 - 2.00 mm	24.18
% Medium Sand	0.25 - 0.50 mm	24.11
% Fine Sand	0.0625 - 0.25 mm	37.09

Grain Size Distribution	%Finer	Next Larger %Finer	$D_{(\text{Next Larger \%Finer})}$ (mm)	Next Smaller %Finer	$D_{(\text{Next Smaller \%Finer})}$ (mm)	Grain Size (mm)
D10	10	10.73	0.063	#N/A	#N/A	#N/A
D30	30	47.83	0.425	18.65	0.150	0.225
D50	50	71.93	0.850	47.83	0.425	0.452
D60	60	71.93	0.850	47.83	0.425	0.603

Uniformity Coefficient (Cu)	#N/A
Coefficient of Curvature (Cc)	#N/A



GRADATION CURVE

J22570

Vineyard Wind

Sample 522CT22-GB112C-1

Water Depth (m) --

Appendix L: Grab Summary Results

Appendix L: Grab Summary Results

Benthic Sample Taxonomy and Enumeration Results, Processed to Remove Taxonomic Ambiguity

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					
Ascidiacea																					
Perophora viridis																					
Molgulidae										1											
Cnidaria																					
Actiniaria							2														
Cerianthidae			1																		
Crustacea																					
Ampelisca sp.	31	62	8	10	1	101	58	16	2	77	79	1									
Byblis serrata															2					1	
Ampithoidae																					
Grandidierella japonica																					
Microdeutopus sp.																					
Batea sp.																					
Bathyporeia sp.																					
Caprellidae												1									
Casco bigelowi																					
Corophium sp.																					
Leptocheirus sp.							1			2	1										1
Dexaminidae																					
Acanthohaustorius sp.																					
Parahaustorius sp.																				2	4
Protohaustorius sp.																			3		
Pseudohaustorius sp.																					
Erichthonius sp.	5			1																	2
Idunella sp.																					
Lysianassidae																					
Melita sp.											2										
Synchelidium sp.																					
Photis sp.																					
Harpinia sp.								1		1	3										
Phoxocephalus sp.																					
Rhepoxynius epistomus																			1	3	
Orchomenella sp.																					
Unciola sp.										5	1			1							
Diastylis sp.			1				2	1		1	4	1	1								
Leptostylis sp.											1										
Oxyurostylis sp.																					
Eudorella sp.	3	1	5	3	2			2	1	1	3										1
Campylaspis sp.										1											
Gilvossius setimanus																					
Crangon septemspinosa																					

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Organisms/sample																					
Crustacea cont.																					
Pagurus sp.																					
Pinnixinae																					
Upogebia affinis																					
Xanthidae																					
Ancinus sp.																				1	
Ptilanthura tenuis											1										
Chiridotea sp.																					
Politolana sp.																					
Edotia montosa								2			1										
Tanaidacea																					4
Echinodermata																					
Echinarachnius parma																			1		
Amphioplus abditus	4	4	11	6	8	10	8	3													
Mollusca																					
Solenidae																					
Anadara transversa																					
Parvicardium pinnulatum											2	1									
Macoma sp.	1																				
Tellininae																				2	
Astarte castanea												1				1		2			
Astarte undata																					
Crassinella lunulata																					
Lucinoma sp.																					
Thyasira sp.											1										
Caryocorbula contracta																					
Crenella sp.											2										
Mytilus edulis																10					
Yoldia sp.										1											
Pectinidae		1																			
Petrasma borealis																					
Spisula solidissima																					
Lyonsia sp.										1											
Pandora sp.																					
Periploma papyratium								1		2	5										
Chaetoderma sp.								1													
Cephalaspidea																					
Crepidula fornicata																1					
Lacuna sp.																					
Naticidae																					
Skeneopsis planorbis																					
Astyris lunata																					
Columbellidae																					
Ilyanassa trivittata																	1			1	

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
	Organisms/sample																				
Mollusca cont.																					
Nucula proxima						1					2									2	
Pyramidellidae																					
Nemertea																					
Nemertea		1		1		2	3		1		1					1					
Oligochaeta																					
Enchytraeidae									1							3					
Naididae w/ hair chaetae										1									1		
Naididae w/out hair chaetae								1		3	3		3						3		
Polychaeta																					
Dorvilleidae														1		1					
Paucibranchia bellii																					
Lumbrinerides acuta													1	12	2	1					
Ninoe nigripes										7	2										
Scoletoma sp.		1								4	8				2						
Drilonereis sp.	1		2				1	1		1			1								
Onuphis sp.																					
Scoloplos sp.																					
Glycera sp.														2			1	1			
Goniadella gracilis									5				2	12	1	2					
Hesionidae																					
Nephtys sp.	1	2				1		1		1	1	1			1					3	
Nereididae																					
Eteone sp.																					
Phyllodoce arenae																					
Phyllodocidae Type A																					
Polynoidae					1											2		1			
Pisioninae														1							
Sigalion arenicola																2					
Sthenelais boa																					
Sthenelais limicola																					
Exogone sp.			1																		
Syllidae																4					
Syllis sp.					2	1															
Sabellidae											3										
Polydora sp.																					
Prionospio sp.																					
Scolelepis sp.																					1
Spio sp.																					
Spiophanes bombyx							1														

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					
Polychaeta cont.																					
Spiophanes wigleyi							2														
Streblospio benedicti																					
Ampharetidae						1			1												
Cirratulidae								2		1	2			2				1			
Brada sp.											2										
Pherusa sp.										1											
Pectinaria gouldii																					
Terebellidae																1					
Terebellides stroemii										2	5										
Amastigos caperatus																					
Mediomastus sp.																					
Spiochaetopterus sp.																					
Cossura longocirrata					2			9	1												
Magelona rosea																					
Clymenella torquata																					
Clymenella zonalis																					
Sabaco elongatus																					
Ophelia sp.										2											
Leitoscoloplos sp.																					
Orbinia sp.																					
Scoloplos sp.																		1			
Aricidea sp.											1							1	1		
Paraonidae					14			2	2	2	4										
Polygordius sp.									1	1	1	6	1		2						1
Sabellaria vulgaris																				1	
Scalibregma inflatum																				1	
Travisia carnea																					
Sipuncula																					
Sipuncula			1	2		2				1											
Total Organisms*	46	72	30	23	30	119	78	43	15	120	141	12	9	31	10	29	2	7	10	17	15
Taxa Richness*	7	7	8	6	7	8	9	14	9	24	27	7	6	7	6	12	2	6	6	10	8
Pielou's Evenness*	0.59	0.32	0.79	0.82	0.76	0.31	0.47	0.78	0.90	0.53	0.62	0.82	0.94	0.73	0.98	0.86	1.00	0.98	0.92	0.96	0.90
Shannon Diversity*	1.15	0.63	1.65	1.46	1.48	0.65	1.03	2.06	1.99	1.69	2.03	1.59	1.68	1.42	1.75	2.13	0.69	1.75	1.64	2.20	1.88

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset:*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Ascidiacea																						
Perophora viridis																						
Molgulidae																						
Cnidaria																						
Actiniaria																	1					
Cerianthidae																						
Crustacea																						
Ampelisca sp.										1				3	1	11	6	19	2	2	9	20
Byblis serrata				1												1						
Ampithoidae																						
Grandidierella japonica																						
Microdeutopus sp.													1									
Batea sp.														2								
Bathyporeia sp.																						
Caprellidae																						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.																						
Dexaminidae																						
Acanthohaustorius sp.																						
Parahaustorius sp.																						
Protohaustorius sp.																						
Pseudohaustorius sp.																						
Erichthonius sp.																						
Idunella sp.									1		1											
Lysianassidae																						
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus									1	1					1							
Orchomenella sp.																						
Unciola sp.					1			3	2											1		
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.																						
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus						1		1			1											
Crangon septemspinosa																						

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Crustacea cont.																						
Pagurus sp.								1		3					1	1	1					
Pinnixinae																	1			1		
Upogebia affinis												1										
Xanthidae					1	1								1								
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.	2								1													
Edotia montosa																						
Tanaidacea							1			1												
Echinodermata																						
Echinarachnius parma																						
Amphioplus abditus		1																				
Mollusca																						
Solenidae																						
Anadara transversa					1				1													
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae														1		1		2				2
Astarte castanea																						
Astarte undata															1							
Crassinella lunulata			1		5	1	4	28		6					1							
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta											1											
Crenella sp.																						
Mytilus edulis											1											
Yoldia sp.																						
Pectinidae																						
Petrasma borealis														1								
Spisula solidissima																						
Lyonsia sp.										1								1				
Pandora sp.					2				1													
Periploma papyratium	1																					
Chaetoderma sp.																						
Cephalaspidea																				1		
Crepidula fornicata					10		2		78					7								
Lacuna sp.																						
Naticidae																						
Skeneopsis planorbis																						
Astyris lunata																					1	
Columbellidae					1			1														
Ilyanassa trivittata											1					1	2	1	2		1	1

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Mollusca cont.																						
Nucula proxima																						
Pyramidellidae																						
Nemertea																						
Nemertea	1						1	1		1												
Oligochaeta																						
Enchytraeidae								2	12				1									
Naididae w/ hair chaetae														1								
Naididae w/out hair chaetae								2	10		1	4		5		8	1				1	
Polychaeta																						
Dorvilleidae																						
Paucibranchia bellii																						
Lumbrinerides acuta																						
Ninoe nigripes																					2	
Scoletoma sp.									1				3				2					1
Drilonereis sp.														1								
Onuphis sp.																						
Scoloplos sp.																						1
Glycera sp.						1					1									1	1	
Goniadella gracilis						1																
Hesionidae																						
Nephtys sp.									1		2	1	1		3		1				2	
Nereididae											1	1		3								
Eteone sp.																						
Phyllodoce arenae																		1				1
Phyllodocidae Type A																						
Polynoidae							1		2					1					1			
Pisioninae																						
Sigalion arenicola																				1		
Sthenelais boa																						
Sthenelais limicola																						
Exogone sp.																			1			
Syllidae					1		1		7	1	1			1								
Syllis sp.												1										
Sabellidae																						
Polydora sp.		1							3													
Prionospio sp.																	5				2	1
Scolelepis sp.																						
Spio sp.																						
Spiophanes bombyx																						1

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																						
Ampharetidae					2	2	2	2	2		1											
Cirratulidae	1	1			57			1	3			1		2		4	1					
Brada sp.																						
Pherusa sp.																						
Pectinaria gouldii																						
Terebellidae		1							1								1		1			
Terebellides stroemii																						
Amastigos caperatus																						
Mediomastus sp.							1		1			1	1	1		2	2			1	3	
Spiochaetopterus sp.																						
Cossura longocirrata																						
Magelona rosea							1															
Clymenella torquata							1				1		1	2								
Clymenella zonalis												4	3	7			2		2			
Sabaco elongatus													2						1	1		
Ophelia sp.																						
Leitoscoloplos sp.														4			2					1
Orbinia sp.																						
Scoloplos sp.																				1		
Aricidea sp.	1				1			2	5						2	19	1					
Paraonidae																						
Polygordius sp.	1				1				5	1							2				1	
Sabellaria vulgaris							1			1												
Scalibregma inflatum				1							1					1	1		3			2
Travisia carnea																						
Sipuncula																						
Sipuncula																						
Total Organisms*	7	4	1	2	83	7	16	44	138	17	14	14	13	43	10	49	32	24	13	10	23	31
Taxa Richness*	6	4	1	2	12	6	11	11	20	10	13	8	8	17	7	10	17	5	8	9	10	10
Pielou's Evenness*	0.98	1.00	**	1.00	0.50	0.98	0.94	0.61	0.60	0.87	0.99	0.89	0.94	0.90	0.94	0.75	0.92	0.49	0.96	0.98	0.85	0.61
Shannon Diversity*	1.75	1.39	0.00	0.69	1.24	1.75	2.25	1.46	1.79	2.01	2.54	1.85	1.95	2.56	1.83	1.73	2.62	0.79	1.99	2.16	1.95	1.41

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset:*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Ascidiacea																						
Perophora viridis							1															
Molgulidae																						
Cnidaria																						
Actiniaria																						
Cerianthidae																						
Crustacea																						
Ampelisca sp.	3	13			1					1	4				33	1						
Byblis serrata					2																	
Ampithoidae													2									
Grandidierella japonica																					1	
Microdeutopus sp.																				3		
Batea sp.																						
Bathyporeia sp.							1															
Caprellidae															2	2						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.											1				5				1			
Dexaminidae																						3
Acanthohaustorius sp.							2															
Parahaustorius sp.																						
Protohaustorius sp.							15	1														
Pseudohaustorius sp.																						
Erichthonius sp.	1																					
Idunella sp.																						
Lysianassidae									1									1				
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus														1			4					
Orchomenella sp.																						
Unciola sp.				2					1													
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.										1												
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus																						
Crangon septemspinosa															1							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Crustacea cont.																						
Pagurus sp.	1		1						2										5		3	
Pinnixinae																						
Upogebia affinis																						
Xanthidae			1																1			
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.				1																		
Edotia montosa																						
Tanaidacea									2													
Echinodermata																						
Echinarachnius parma						1																
Amphioplus abditus																						
Mollusca																						
Solenidae																						
Anadara transversa																						
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae	1									1	4			1			1				1	
Astarte castanea								1														
Astarte undata																						
Crassinella lunulata									19													
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta																						
Crenella sp.																						
Mytilus edulis			4																2			
Yoldia sp.																						
Pectinidae																						
Petrasma borealis										2												
Spisula solidissima																						
Lyonsia sp.																2						
Pandora sp.																						
Periploma papyratium																						
Chaetoderma sp.																						
Cephalaspidea																						
Crepidula fornicata			17																13			
Lacuna sp.																						2
Naticidae																						
Skeneopsis planorbis		1																				
Astyris lunata									1							1						
Columbellidae										1											1	2
Ilyanassa trivittata	1	1	1							1	1				1							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Mollusca cont.																						
Nucula proxima										1	4											
Pyramidellidae			8								8				2		1					
Nemertea																						
Nemertea							1	2							1	2						
Oligochaeta																						
Enchytraeidae						1						1	11								1	
Naididae w/ hair chaetae			1																			
Naididae w/out hair chaetae	2			8			1	6				6	1	2				1		3	3	1
Polychaeta																						
Dorvilleidae									3												1	
Paucibranchia bellii																						
Lumbrinerides acuta				8																		
Ninoe nigripes															1							
Scoletoma sp.			3	1	3			2			2	8				1		2	3	2	1	7
Drilonereis sp.																						
Onuphis sp.																						
Scoloplos sp.																						
Glycera sp.	1			1		1										1						
Goniadella gracilis				2																		
Hesionidae									1													
Nephtys sp.	1	1			3			1			2			2							1	
Nereididae											1		1									
Eteone sp.																						1
Phyllodoce arenae																						
Phyllodocidae Type A									1													
Polynoidae			1						1							1			2			
Pisioninae									2													
Sigalion arenicola				1	1		2															
Sthenelais boa																						1
Sthenelais limicola																						
Exogone sp.					1							1									1	
Syllidae	1				2	1			3				2								3	1
Syllis sp.																						
Sabellidae																						
Polydora sp.				2						2					1	6						1
Prionospio sp.	2	1									1				2		2					
Scolelepis sp.																						
Spio sp.																						3
Spiophanes bombyx							1														2	

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																					1	
Ampharetidae			1		1							1							1			
Cirratulidae	1		3	6	3			1			2	5				3		4	6	2	3	
Brada sp.																						
Pherusa sp.																						
Pectinaria gouldii										1						1						
Terebellidae									23			1	1			1				2	8	4
Terebellides stroemii																						
Amastigos caperatus																						
Mediomastus sp.	5		1									2									1	
Spiochaetopterus sp.												1										
Cossura longocirrata																						
Magelona rosea							1															
Clymenella torquata							1			1	6	3			4		7				8	1
Clymenella zonalis		4							1		2	1						1	2			
Sabaco elongatus											1	1										
Ophelia sp.																						
Leitoscoloplos sp.	1												1		2							
Orbinia sp.																						
Scoloplos sp.																						
Aricidea sp.						1	5	3	1			1		1								
Paraonidae				1	1	1	3															
Polygordius sp.				5	7	53	1	3				1								2		
Sabellaria vulgaris																						
Scalibregma inflatum					1							1			1	3				2	1	
Travisia carnea					1																	
Sipuncula																						
Sipuncula																						
Total Organisms*	21	21	42	38	27	59	35	20	62	12	39	34	19	7	56	25	15	9	36	16	41	27
Taxa Richness*	13	6	12	12	13	7	13	9	15	10	14	15	7	5	13	13	5	5	10	7	18	12
Pielou's Evenness*	0.92	0.67	0.77	0.87	0.91	0.26	0.78	0.91	0.70	0.98	0.91	0.87	0.72	0.96	0.63	0.92	0.83	0.89	0.84	0.99	0.88	0.90
Shannon Diversity*	2.37	1.19	1.91	2.16	2.32	0.51	1.99	1.99	1.89	2.25	2.39	2.35	1.41	1.55	1.62	2.36	1.34	1.43	1.93	1.93	2.55	2.24

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Ascidiacea														
Perophora viridis														
Molgulidae														
Cnidaria														
Actiniaria														
Cerianthidae														
Crustacea														
Ampelisca sp.	2	13	6	4	53	1		156	19	39	48	99	37	97
Byblis serrata			3							1				
Ampithoidae														
Grandidierella japonica														
Microdeutopus sp.														
Batea sp.														
Bathyporeia sp.														
Caprellidae							1				1			
Casco bigelowi									1					1
Corophium sp.		1						2	2	2	7			
Leptocheirus sp.								6	1		3	2		2
Dexaminidae														
Acanthohaustorius sp.														
Parahaustorius sp.														
Protohaustorius sp.														
Pseudohaustorius sp.							1							
Erichthonius sp.		9	8	2	26			124	70	47	71	5	16	21
Idunella sp.														
Lysianassidae														1
Melita sp.														
Synchelidium sp.														
Photis sp.														1
Harpinia sp.														
Phoxocephalus sp.		1	1		2			3	2	2	6			
Rhepoxynius epistomus			2	4		1	2							
Orchomenella sp.					1									
Unciola sp.		1	3		10			3	2		5	1		
Diastylis sp.	8	22	1	1	1		2	1	2	2	2		2	2
Leptostylis sp.														1
Oxyurostylis sp.														
Eudorella sp.	2	1	1	1	2			4	1	3	3	1		1
Campylaspis sp.														
Gilvossius setimanus														
Crangon septemspinosa														

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Crustacea cont.														
Pagurus sp.														
Pinnixinae														
Upogebia affinis														
Xanthidae														
Ancinus sp.														
Ptilanthura tenuis					1							1		
Chiridotea sp.						1								
Politolana sp.														
Edotia montosa														
Tanaidacea							1							
Echinodermata														
Echinarachnius parma		1				1	4							
Amphioplus abditus													11	1
Mollusca														
Solenidae			1											
Anadara transversa														
Parvicardium pinnulatum					1					1				
Macoma sp.														
Tellininae			1							1				
Astarte castanea														
Astarte undata														
Crassinella lunulata														
Lucinoma sp.										3	1	1		1
Thyasira sp.					1			4	1			3	3	4
Caryocorbula contracta														
Crenella sp.														
Mytilus edulis														
Yoldia sp.		3						1						
Pectinidae														
Petrasma borealis														
Spisula solidissima														
Lyonsia sp.														
Pandora sp.														
Periploma papyratium					4				1			1	2	
Chaetoderma sp.														
Cephalaspidea														
Crepidula fornicata														
Lacuna sp.														
Naticidae					1									
Skeneopsis planorbis														
Astyris lunata														
Columbellidae														
Ilyanassa trivittata										1				

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Mollusca cont.														
Nucula proxima	218	9		4	19	6	1	18		21	4	9	2	23
Pyramidellidae														
Nemertea														
Nemertea	1	2	5	1			1	5		1		1		
Oligochaeta														
Enchytraeidae														
Naididae w/ hair chaetae													1	
Naididae w/out hair chaetae	1	20	3		1		2		2	1	4			1
Polychaeta														
Dorvilleidae														
Paucibranchia bellii														
Lumbrinerides acuta														
Ninoe nigripes									3	3	1	2	3	5
Scoletoma sp.	2							1		1	2	1	8	3
Drilonereis sp.					1				2			1	1	
Onuphis sp.														
Scoloplos sp.														
Glycera sp.		2		1		1	1			1				
Goniadella gracilis														
Hesionidae														
Nephtys sp.	1	4	6		1		2	2	2		1	4	3	1
Nereididae														
Eteone sp.														
Phyllodoce arenae														1
Phyllodocidae Type A														
Polynoidae					1								1	1
Pisioninae														
Sigalion arenicola								1						
Sthenelais boa														
Sthenelais limicola		1				1			1					
Exogone sp.						1								
Syllidae														
Syllis sp.														
Sabellidae														
Polydora sp.														
Prionospio sp.									1					
Scolelepis sp.														
Spio sp.														
Spiophanes bombyx					3			3		1			1	

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Polychaeta cont.														
Spiophanes wigleyi														
Streblospio benedicti														
Ampharetidae							1			1				
Cirratulidae	3												2	
Brada sp.					1									1
Pherusa sp.										1		2		1
Pectinaria gouldii														
Terebellidae														
Terebellides stroemii												4	16	3
Amastigos caperatus														
Mediomastus sp.														
Spiochaetopterus sp.														
Cossura longocirrata												1	3	1
Magelona rosea														
Clymenella torquata					1			3	3	8	7	1	1	2
Clymenella zonalis														
Sabaco elongatus														
Ophelia sp.														
Leitoscoloplos sp.		4		3							1			
Orbinia sp.														
Scoloplos sp.														
Aricidea sp.			1						1	1				
Paraonidae		10		1	4			8	10	35	36	12	9	1
Polygordius sp.	1	28	2	1		3			1					
Sabellaria vulgaris														
Scalibregma inflatum														
Travisia carnea														
Sipuncula														
Sipuncula														
Total Organisms*	239	132	44	23	135	16	19	345	128	177	203	152	122	177
Taxa Richness*	10	18	15	11	21	9	12	18	21	23	18	20	19	25
Pielou's Evenness*	0.59	0.32	0.79	0.92	0.66	0.86	0.95	0.52	0.59	0.67	0.67	0.51	0.79	0.55
Shannon Diversity*	1.15	0.63	1.65	2.21	2.01	1.90	2.36	1.50	1.78	2.11	1.94	1.53	2.31	1.76

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae, *Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Ascidiacea																											
Perophora viridis																											
Molgulidae																											
Cnidaria																											
Actiniaria																							1	2			
Cerianthidae																											
Crustacea																											
Ampelisca sp.		1		25	5																	2				16
Byblis serrata				1	1	15	5									1											
Ampithoidae																											
Grandidierella japonica																											
Microdeutopus sp.																											
Batea sp.																											
Bathyporeia sp.																											
Caprellidae																											
Casco bigelowi																											
Corophium sp.																											
Leptocheirus sp.																											1
Dexaminidae																											
Acanthohaustorius sp.																											
Parahaustorius sp.																											
Protohaustorius sp.	4																										
Pseudohaustorius sp.																						1					
Erichthonius sp.																											
Idunella sp.																											
Lysianassidae																											
Melita sp.																											
Synchelidium sp.						1																					
Photis sp.																											
Harpinia sp.																											
Phoxocephalus sp.																							5				1
Rhepoxynius epistomus	1																					1					
Orchomenella sp.																											
Unciola sp.																							2			1	4
Diastylis sp.							1								1					1			1				1
Leptostylis sp.																											
Oxyurostylis sp.																											
Eudorella sp.								2	7																		
Campylaspis sp.																											
Gilvossius setimanus																											
Crangon septemspinosa																											

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Crustacea cont.																											
Pagurus sp.																											
Pinnixinae																											
Upogebia affinis																											
Xanthidae																											
Ancinus sp.																											
Ptilanthura tenuis																											
Chiridotea sp.											1																
Politolana sp.																											
Edotia montosa							1															1					
Tanaidacea																											
Echinodermata																											
Echinarachnius parma																					2						
Amphioplus abditus																											
Mollusca																											
Solenidae				1																							
Anadara transversa																											
Parvicardium pinnulatum																											
Macoma sp.									2																		
Tellininae		1		4	3	3	1		1											5		5		2			
Astarte castanea							2																				
Astarte undata																											
Crassinella lunulata																											
Lucinoma sp.																											
Thyasira sp.								1																			
Caryocorbula contracta																											
Crenella sp.																											
Mytilus edulis																											
Yoldia sp.									6	1															1		
Pectinidae																											
Petrasma borealis																											
Spisula solidissima																	1										
Lyonsia sp.																											
Pandora sp.																											
Periploma papyratium								2																			
Chaetoderma sp.																											
Cephalaspidea				1																							
Crepidula fornicata											1																
Lacuna sp.																											
Naticidae																											
Skeneopsis planorbis																											
Astyris lunata																											1
Columbellidae																											
Ilyanassa trivittata											1								1			1				1	1

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Mollusca cont.																											
Nucula proxima		39	1		1		108	25	144	8						1				87		2	45	12	36		62
Pyramidellidae																											
Nemertea																											
Nemertea	1	1							1				1		1				1	2		1	1	1	2		
Oligochaeta																											
Enchytraeidae						36						1		1		1											
Naididae w/ hair chaetae														1	2			4	4							1	
Naididae w/out hair chaetae	1		11		1	1		2			1	3	4		1	4	1	1	1	8		3	9		1	3	
Polychaeta																											
Dorvilleidae			2									1															
Paucibranchia bellii														1													
Lumbrinerides acuta												5	4	3	4									2			
Ninoe nigripes									1																		1
Scoletoma sp.								2	1									1	1	1		1	3	1	3		2
Drilonereis sp.		2						2										1									1
Onuphis sp.		1																									
Scoloplos sp.																											
Glycera sp.	1	1									5			1							1						
Goniadella gracilis												1	3	3	13	1	6	27	6		2	1					
Hesionidae																											
Nephtys sp.		4	1			3	1	2	2	1							1				1	1		2	6	1	1
Nereididae																											
Eteone sp.																											
Phyllodoce arenae				1																							
Phyllodocidae Type A																											
Polynoidae																									1		1
Pisioninae											10	1															
Sigalion arenicola																											
Sthenelais boa																											
Sthenelais limicola																					1	1					
Exogone sp.						11			1	1			6			1		4									
Syllidae			4								7	2	12		3											1	1
Syllis sp.																											
Sabellidae																											
Polydora sp.																											
Prionospio sp.		3		11																							
Scolelepis sp.																											
Spio sp.																								1			
Spiophanes bombyx	2	1		2																							

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Polychaeta cont.																											
Spiophanes wigleyi																											
Streblospio benedicti																											
Ampharetidae	1																	1					3	7		2	
Cirratulidae		3	2	4				1	6			1	3	2									23	8		2	7
Brada sp.																									1		
Pherusa sp.																								2	3		
Pectinaria gouldii																											
Terebellidae			2		1																					1	
Terebellides stroemii																											
Amastigos caperatus	4	51		2	16															2						13	
Mediomastus sp.																										4	
Spiochaetopterus sp.																											
Cossura longocirrata																											
Magelona rosea	3	2																									
Clymenella torquata																								2			
Clymenella zonalis																										1	
Sabaco elongatus																											
Ophelia sp.															1												
Leitoscoloplos sp.	3																			2		1					
Orbinia sp.	2														1												
Scoloplos sp.				1	1				2																		
Aricidea sp.				2									1	1	2			1	1	1			1				2
Paraonidae						1		2	2																1		1
Polygordius sp.			22	1					2		12		13	30	27	1	7	12	30	2	1	4	4				2
Sabellaria vulgaris																											
Scalibregma inflatum																											
Travisia carnea	1				1						1							1									
Sipuncula																											
Sipuncula																			1			1					
Total Organisms*	24	110	45	56	30	71	119	41	178	11	39	15	47	43	56	10	16	53	46	111	8	25	96	37	64	29	108
Taxa Richness*	12	13	8	13	9	8	7	10	14	4	9	8	9	9	11	7	5	10	9	10	6	15	11	12	12	11	19
Pielou's Evenness*	0.59	0.32	0.79	0.72	0.70	0.68	0.23	0.66	0.35	0.64	0.80	0.89	0.87	0.55	0.68	0.90	0.78	0.66	0.57	0.41	0.97	0.92	0.67	0.84	0.65	0.78	0.57
Shannon Diversity*	1.15	0.63	1.65	1.85	1.54	1.41	0.45	1.51	0.93	0.89	1.75	1.86	1.90	1.20	1.63	1.75	1.25	1.52	1.26	0.94	1.73	2.49	1.62	2.08	1.62	1.87	1.67

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Ophelidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Appendix L: Grab Summary Results

Benthic Sample Taxonomy and Enumeration Results, Not Processed to Remove Taxonomic Ambiguity

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					
Ascidiacea																					
Perophora viridis																					
Molgulidae										1											
Cnidaria																					
Actiniaria[3]							2														
Cerianthidae			1																		
Crustacea																					
Ampelisca sp.	31	62	8	10	1	101	58	16	2	77	79	1									
Byblis serrata															2					1	
Ampithoidae																					
Aoridae[1]																					
Grandidierella japonica																					
Microdeutopus sp.																					
Batea sp.																					
Bathyporeia sp.																					
Caprellidae												1									
Casco bigelowi																					
Corophium sp.																					
Leptocheirus sp.							1			2	1										1
Dexaminidae																					
Acanthohaustorius sp.																					
Parahaustorius sp.																				2	4
Protohaustorius sp.																			3		
Pseudohaustorius sp.																					
Erichthonius sp.	5			1																	2
Idunella sp.																					
Lysianassidae																					
Melita sp.											2										
Synchelidium sp.																					
Photis sp.																					
Harpinia sp.								1		1	3										
Phoxocephalus sp.																					
Rhepoxynius epistomus																			1	3	
Orchomenella sp.																					
Unciola sp.										5	1			1							
Amphipoda[1]		1					1	1			1	4									2
Diastylis sp.			1				2	1		1	4	1	1								
Leptostylis sp.											1										
Oxyurostylis sp.																					
Eudorella sp.	3	1	5	3	2			2	1	1	3										1
Campylaspis sp.										1											
Gilvossius setimanus																					
Crangon septemspinosa																					
Pagurus sp.																					

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					
Crustacea cont.																					
Pinnixinae																					
Upogebia affinis																					
Xanthidae																					
Ancinus sp.																				1	
Ptilanthura tenuis											1										
Chiridotea sp.																					
Politolana sp.																					
Edotia montosa								2			1										
Tanaidacea																					4
Echinodermata																					
Echinarachnius parma																			1		1
Amphioplus abditus	4	4	11	6	8	10	8	3													
Mollusca																					
Solenidae																					
Anadara transversa																					
Parvicardium pinnulatum											2	1									
Macoma sp.	1																				
Tellininae																				2	
Astarte castanea												1				1		2			
Astarte undata																					
Crassinella lunulata																					
Lucinoma sp.																					
Thyasira sp.											1										
Caryocorbula contracta																					
Crenella sp.											2										
Mytilus edulis																10					
Yoldia sp.										1											
Pectinidae		1																			
Petrasma borealis																					
Spisula solidissima																					
Lyonsia sp.										1											
Pandora sp.																					
Periploma papyratium								1		2	5										
Bivalvia[1]					1					1	8	2		1							
Chaetoderma sp.								1													
Cephalaspidea																					
Crepidula fornicata																1					
Lacuna sp.																					
Naticidae																					
Skeneopsis planorbis																					
Astyris lunata																					
Columbellidae[3]																					
Ilyanassa trivittata																	1			1	

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					
Mollusca cont,																					
Nucula proxima						1					2									2	
Pyramidellidae																					
Turbonilla sp. [2]																					
Nemertea																					
Nemertea		1		1		2	3		1		1					1					
Oligochaeta																					
Enchytraeidae									1							3					
Naididae w/ hair chaetae										1									1		
Naididae w/out hair chaetae								1		3	3		3						3		
Polychaeta																					
Dorvilleidae														1		1					
Paucibranchia bellii																					
Lumbrinerides acuta													1	12	2	1					
Ninoe nigripes										7	2										
Scoletoma sp.		1								4	8				2						
Drilonereis sp.	1		2				1	1		1			1								
Onuphis sp.																					
Scoloplos sp.																					
Glycera sp.														2			1	1			
Goniadella gracilis									5				2	12	1	2					
Hesionidae																					
Nephtys sp.	1	2				1		1		1	1	1			1					3	
Nereididae																					
Eteone sp.																					
Phyllodoce arenae																					
Phyllodocidae[1]																					
Phyllodocidae Type 1[3]																					
Polynoidae					1											2		1			
Pisioninae														1							
Sigalion arenicola																2					
Sthenelais boa																					
Sthenelais limicola																					
Exogone sp. [3]			1																		
Syllidae																4					
Syllis sp. [3]					2	1															
Sabellidae											3										
Polydora sp.																					
Prionospio sp.																					
Scolelepis sp.																					1
Spio sp.																					
Spionidae[1]								1												1	
Spiophanes bombyx							1														

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					
Polychaeta cont.																					
Spiophanes wigleyi							2														
Streblospio benedicti																					
Ampharetidae						1			1												
Cirratulidae								2		1	2			2				1			
Brada sp.											2										
Flabelligeridae[1]																					
Pherusa sp.										1											
Pectinaria gouldii																					
Terebellidae																1					
Terebellides stroemii[3]										2	5										
Amastigos caperatus																					
Capitellidae[1]																					
Mediomastus sp.																					
Spiochaetopterus sp.																					
Cossura longocirrata					2			9	1												
Magelona rosea																					
Clymenella sp.[1]																					
Clymenella torquata																					
Clymenella zonalis																					
Maldanidae[1]							1	16													
Sabaco elongatus																					
Ophelia sp.										2											
Opheliidae[1]																1					
Leitoscoloplos sp.																					
Orbinia sp.																					
Orbiniidae[1]																					
Scoloplos sp.																		1			
Aricidea sp.											1							1	1		
Paraonidae					14			2	2	2	4										
Polygordius sp.									1	1	1	6	1		2						1
Sabellaria vulgaris																				1	
Scalibregma inflatum																				1	
Travisia carnea																					
Polychaeta[1]															1						
Sipuncula																					
Sipuncula			1	2		2				1											
Total Organisms*	46	72	30	23	30	119	78	43	15	120	141	12	9	31	10	29	2	7	10	17	15
Taxa Richness*	7	7	8	6	7	8	9	14	9	24	27	7	6	7	6	12	2	6	6	10	8
Pielou's Evenness*	0.59	0.32	0.79	0.82	0.76	0.31	0.47	0.78	0.90	0.53	0.62	0.82	0.94	0.73	0.98	0.86	1.00	0.98	0.92	0.96	0.90
Shannon Diversity*	1.15	0.63	1.65	1.46	1.48	0.65	1.03	2.06	1.99	1.69	2.03	1.59	1.68	1.42	1.75	2.13	0.69	1.75	1.64	2.20	1.88

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/sample																					

*All metrics were calculated after taxonomic ambiguity in the dataset presented above was resolved using the RPMC-G method described in Cuffney et al. (2007). The RPMC-G method was applied to the raw dataset as detailed below.
[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.
[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)
[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Ascidiacea																						
Perophora viridis																						
Molgulidae																						
Cnidaria																						
Actiniaria[3]																	1					
Cerianthidae																						
Crustacea																						
Ampelisca sp.										1				3	1	11	6	19	2	2	9	20
Byblis serrata				1												1						
Ampithoidae																						
Aoridae[1]																						
Grandidierella japonica																						
Microdeutopus sp.													1									
Batea sp.														2								
Bathyporeia sp.																						
Caprellidae																						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.																						
Dexaminidae																						
Acanthohaustorius sp.																						
Parahaustorius sp.																						
Protohaustorius sp.																						
Pseudohaustorius sp.																						
Erichthonius sp.																						
Idunella sp.									1		1											
Lysianassidae																						
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus									1	1					1							
Orchomenella sp.																						
Unciola sp.					1			3	2											1		
Amphipoda[1]							1							1								
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.																						
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus						1		1			1											
Crangon septemspinosa																						
Pagurus sp.								1		3					1	1	1					

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Crustacea cont.																						
Pinnixinae																	1			1		
Upogebia affinis												1										
Xanthidae					1	1								1								
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.	2								1													
Edotia montosa																						
Tanaidacea							1			1												
Echinodermata																						
Echinarachnius parma																						
Amphioplus abditus		1																				
Mollusca																						
Solenidae																						
Anadara transversa					1				1													
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae														1		1		2				2
Astarte castanea																						
Astarte undata															1							
Crassinella lunulata			1		5	1	4	28		6					1							
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta											1											
Crenella sp.																						
Mytilus edulis											1											
Yoldia sp.																						
Pectinidae																						
Petrasma borealis														1								
Spisula solidissima																						
Lyonsia sp.										1								1				
Pandora sp.					2				1													
Periploma papyratium	1																					
Bivalvia[1]																	2					
Chaetoderma sp.																						
Cephalaspidea																				1		
Crepidula fornicata					10		2		78					7								
Lacuna sp.																						
Naticidae																						
Skeneopsis planorbis																						
Astyris lunata																					1	
Columbellidae[3]					1			1														
Ilyanassa trivittata											1					1	2	1	2		1	1

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Mollusca cont,																						
Nucula proxima																						
Pyramidellidae																						
Turbonilla sp. [2]																						
Nemertea																						
Nemertea	1						1	1		1												
Oligochaeta																						
Enchytraeidae								2	12				1									
Naididae w/ hair chaetae														1								
Naididae w/out hair chaetae								2	10		1	4		5		8	1				1	
Polychaeta																						
Dorvilleidae																						
Paucibranchia bellii																						
Lumbrinerides acuta																						
Ninoe nigripes																					2	
Scoletoma sp.									1				3				2					1
Drilonereis sp.														1								
Onuphis sp.																						
Scoloplos sp.																						1
Glycera sp.						1					1									1	1	
Goniadella gracilis						1																
Hesionidae																						
Nephtys sp.									1		2	1	1		3		1				2	
Nereididae											1	1		3								
Eteone sp.																						
Phyllodoce arenae																		1				1
Phyllodocidae[1]																						
Phyllodocidae Type 1[3]																						
Polynoidae							1		2					1					1			
Pisioninae																						
Sigalion arenicola																				1		
Sthenelais boa																						
Sthenelais limicola																						
Exogone sp. [3]																			1			
Syllidae					1		1		7	1	1			1								
Syllis sp. [3]												1										
Sabellidae																						
Polydora sp.		1							3													
Prionospio sp.																	5				2	1
Scolelepis sp.																						
Spio sp.																						
Spionidae[1]									2													
Spiophanes bombyx																						1

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																						
Ampharetidae					2	2	2	2	2		1											
Cirratulidae	1	1			57			1	3			1		2		4	1					
Brada sp.																						
Flabelligeridae[1]																						
Pherusa sp.																						
Pectinaria gouldii																						
Terebellidae		1							1								1		1			
Terebellides stroemii[3]																						
Amastigos caperatus																						
Capitellidae[1]																						
Mediomastus sp.							1		1			1	1	1		2	2			1	3	
Spiochaetopterus sp.																						
Cossura longocirrata																						
Magelona rosea							1															
Clymenella sp.[1]																						
Clymenella torquata							1				1		1	2								
Clymenella zonalis												4	3	7			2		2			
Maldanidae[1]																				1	1	
Sabaco elongatus													2						1	1		
Ophelia sp.																						
Opheliidae[1]																						
Leitoscoloplos sp.														4			2					1
Orbinia sp.																						
Orbiniidae[1]																					1	
Scoloplos sp.																				1		
Aricidea sp.	1				1			2	5						2	19	1					
Paraonidae																						
Polygordius sp.	1				1				5	1							2				1	
Sabellaria vulgaris							1			1												
Scalibregma inflatum				1							1					1	1		3			2
Travisia carnea																						
Polychaeta[1]				1																1		
Sipuncula																						
Sipuncula																						
Total Organisms*	7	4	1	2	83	7	16	44	138	17	14	14	13	43	10	49	32	24	13	10	23	31
Taxa Richness*	6	4	1	2	12	6	11	11	20	10	13	8	8	17	7	10	17	5	8	9	10	10
Pielou's Evenness*	0.98	1.00	**	1.00	0.50	0.98	0.94	0.61	0.60	0.87	0.99	0.89	0.94	0.90	0.94	0.75	0.92	0.49	0.96	0.98	0.85	0.61
Shannon Diversity*	1.75	1.39	0.00	0.69	1.24	1.75	2.25	1.46	1.79	2.01	2.54	1.85	1.95	2.56	1.83	1.73	2.62	0.79	1.99	2.16	1.95	1.41

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/sample																						

*All metrics were calculated after taxonomic ambiguity in the dataset presented above was resolved using the RPMC-G method described in Cuffney et al. (2007). The RPMC-G method was applied to the raw dataset as detailed below.
[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.
[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)
[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Ascidiacea																						
Perophora viridis							1															
Molgulidae																						
Cnidaria																						
Actiniaria[3]																						
Cerianthidae																						
Crustacea																						
Ampelisca sp.	3	13			1					1	4				33	1						
Byblis serrata					2								2									
Ampithoidae																1						
Aoridae[1]																				1		
Grandidierella japonica																					1	
Microdeutopus sp.																				3		
Batea sp.																						
Bathyporeia sp.							1															
Caprellidae															2	2						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.											1				5				1			
Dexaminidae																						3
Acanthohaustorius sp.							2															
Parahaustorius sp.																						
Protohaustorius sp.							15	1														
Pseudohaustorius sp.																						
Erichthonius sp.	1																					
Idunella sp.																						
Lysianassidae									1									1				
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus														1			4					
Orchomenella sp.																						
Unciola sp.				2					1													
Amphipoda[1]																			1			1
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.										1												
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus																						
Crangon septemspinosa															1							
Pagurus sp.	1		1						2										5		3	

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Crustacea cont.																						
Pinnixinae																						
Upogebia affinis																						
Xanthidae			1																1			
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.				1																		
Edotia montosa																						
Tanaidacea									2													
Echinodermata																						
Echinarachnius parma						1																
Amphioplus abditus																						
Mollusca																						
Solenidae																						
Anadara transversa																						
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae	1									1	4			1			1				1	
Astarte castanea								1														
Astarte undata																						
Crassinella lunulata									19													
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta																						
Crenella sp.																						
Mytilus edulis			4																2			
Yoldia sp.																						
Pectinidae																						
Petrasma borealis										2												
Spisula solidissima																						
Lyonsia sp.																2						
Pandora sp.																						
Periploma papyratium																						
Bivalvia[1]			1		1	3																
Chaetoderma sp.																						
Cephalaspidea																						
Crepidula fornicata			17																13			
Lacuna sp.																						2
Naticidae																						
Skeneopsis planorbis		1																				
Astyris lunata									1							1						
Columbellidae[3]										1											1	2
Ilyanassa trivittata	1	1	1							1	1				1							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Mollusca cont,																						
Nucula proxima										1	4											
Pyramidellidae			8												2		1					
Turbonilla sp. [2]											8											
Nemertea																						
Nemertea							1	2							1	2						
Oligochaeta																						
Enchytraeidae						1						1	11								1	
Naididae w/ hair chaetae			1																			
Naididae w/out hair chaetae	2			8			1	6				6	1	2				1		3	3	1
Polychaeta																						
Dorvilleidae									3												1	
Paucibranchia bellii																						
Lumbrinerides acuta				8																		
Ninoe nigripes															1							
Scoletoma sp.			3	1	3			2			2	8				1		2	3	2	1	7
Drilonereis sp.																						
Onuphis sp.																						
Scoloplos sp.																						
Glycera sp.	1			1		1										1						
Goniadella gracilis				2																		
Hesionidae									1													
Nephtys sp.	1	1			3			1			2			2							1	
Nereididae											1		1									
Eteone sp.																						1
Phyllodoce arenae																						
Phyllodocidae[1]			2																			
Phyllodocidae Type 1[3]									1													
Polynoidae			1						1							1			2			
Pisioninae									2													
Sigalion arenicola				1	1		2															
Sthenelais boa																						1
Sthenelais limicola																						
Exogone sp. [3]					1							1									1	
Syllidae	1				2	1			3				2								3	1
Syllis sp. [3]																						
Sabellidae																						
Polydora sp.				2						2					1	6						1
Prionospio sp.	2	1									1				2		2					
Scolelepis sp.																						
Spio sp.																						3
Spionidae[1]																						
Spiophanes bombyx							1														2	

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																					1	
Ampharetidae			1		1							1							1			
Cirratulidae	1		3	6	3			1			2	5				3		4	6	2	3	
Brada sp.																						
Flabelligeridae[1]																						
Pherusa sp.																						
Pectinaria gouldii										1						1						
Terebellidae									23			1	1			1				2	8	4
Terebellides stroemii[3]																						
Amastigos caperatus																						
Capitellidae[1]			1							4			2									
Mediomastus sp.	5		1									2									1	
Spiochaetopterus sp.												1										
Cossura longocirrata																						
Magelona rosea							1															
Clymenella sp.[1]																						
Clymenella torquata							1			1	6	3			4		7				8	1
Clymenella zonalis		4							1		2	1						1	2			
Maldanidae[1]								1			2										3	
Sabaco elongatus											1	1										
Ophelia sp.																						
Opheliidae[1]																						
Leitoscoloplos sp.	1												1		2							
Orbinia sp.																						
Orbiniidae[1]																						
Scoloplos sp.																						
Aricidea sp.						1	5	3	1			1		1								
Paraonidae				1	1	1	3															
Polygordius sp.				5	7	53	1	3				1								2		
Sabellaria vulgaris																						
Scalibregma inflatum					1							1			1	3				2	1	
Travisia carnea					1																	
Polychaeta[1]								1														
Sipuncula																						
Sipuncula																						
Total Organisms*	21	21	42	38	27	59	35	20	62	12	39	34	19	7	56	25	15	9	36	16	41	27
Taxa Richness*	13	6	12	12	13	7	13	9	15	10	14	15	7	5	13	13	5	5	10	7	18	12
Pielou's Evenness*	0.92	0.67	0.77	0.87	0.91	0.26	0.78	0.91	0.70	0.98	0.91	0.87	0.72	0.96	0.63	0.92	0.83	0.89	0.84	0.99	0.88	0.90
Shannon Diversity*	2.37	1.19	1.91	2.16	2.32	0.51	1.99	1.99	1.89	2.25	2.39	2.35	1.41	1.55	1.62	2.36	1.34	1.43	1.93	1.93	2.55	2.24

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/sample																						

*All metrics were calculated after taxonomic ambiguity in the dataset presented above was resolved using the RPMC-G method described in Cuffney et al. (2007). The RPMC-G method was applied to the raw dataset as detailed below.
[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.
[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)
[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Ascidiacea														
Perophora viridis														
Molgulidae														
Cnidaria														
Actiniaria[3]														
Cerianthidae														
Crustacea														
Ampelisca sp.	2	13	6	4	53	1		156	19	39	48	99	37	97
Byblis serrata			3							1				
Ampithoidae														
Aoridae[1]														
Grandidierella japonica														
Microdeutopus sp.														
Batea sp.														
Bathyporeia sp.														
Caprellidae							1				1			
Casco bigelowi									1					1
Corophium sp.		1						2	2	2	7			
Leptocheirus sp.								6	1		3	2		2
Dexaminidae														
Acanthohaustorius sp.														
Parahaustorius sp.														
Protohaustorius sp.														
Pseudohaustorius sp.							1							
Erichthonius sp.		9	8	2	26			124	70	47	71	5	16	21
Idunella sp.														
Lysianassidae														1
Melita sp.														
Synchelidium sp.														
Photis sp.														1
Harpinia sp.														
Phoxocephalus sp.		1	1		2			3	2	2	6			
Rhepoxynius epistomus			2	4		1	2							
Orchomenella sp.					1									
Unciola sp.		1	3		10			3	2		5	1		
Amphipoda[1]					4			2			5	4		
Diastylis sp.	8	22	1	1	1		2	1	2	2	2		2	2
Leptostylis sp.														1
Oxyurostylis sp.														
Eudorella sp.	2	1	1	1	2			4	1	3	3	1		1
Campylaspis sp.														
Gilvossius setimanus														
Crangon septemspinosa														
Pagurus sp.														

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Crustacea cont.														
Pinnixinae														
Upogebia affinis														
Xanthidae														
Ancinus sp.														
Ptilanthura tenuis					1							1		
Chiridotea sp.						1								
Politolana sp.														
Edotia montosa														
Tanaidacea							1							
Echinodermata														
Echinarachnius parma		1				1	4							
Amphioplus abditus													11	1
Mollusca														
Solenidae			1											
Anadara transversa														
Parvicardium pinnulatum					1					1				
Macoma sp.														
Tellininae			1							1				
Astarte castanea														
Astarte undata														
Crassinella lunulata														
Lucinoma sp.										3	1	1		1
Thyasira sp.					1			4	1			3	3	4
Caryocorbula contracta														
Crenella sp.														
Mytilus edulis														
Yoldia sp.		3						1						
Pectinidae														
Petrasma borealis														
Spisula solidissima														
Lyonsia sp.														
Pandora sp.														
Periploma papyratium					4				1			1	2	
Bivalvia[1]			3							1				
Chaetoderma sp.														
Cephalaspidea														
Crepidula fornicata														
Lacuna sp.														
Naticidae					1									
Skeneopsis planorbis														
Astyris lunata														
Columbellidae[3]														
Ilyanassa trivittata										1				

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Mollusca cont,														
Nucula proxima	218	9		4	19	6	1	18		21	4	9	2	23
Pyramidellidae														
Turbonilla sp. [2]														
Nemertea														
Nemertea	1	2	5	1			1	5		1		1		
Oligochaeta														
Enchytraeidae														
Naididae w/ hair chaetae													1	
Naididae w/out hair chaetae	1	20	3		1		2		2	1	4			1
Polychaeta														
Dorvilleidae														
Paucibranchia bellii														
Lumbrinerides acuta														
Ninoe nigripes									3	3	1	2	3	5
Scoletoma sp.	2							1		1	2	1	8	3
Drilonereis sp.					1				2			1	1	
Onuphis sp.														
Scoloplos sp.														
Glycera sp.		2		1		1	1			1				
Goniadella gracilis														
Hesionidae														
Nephtys sp.	1	4	6		1		2	2	2		1	4	3	1
Nereididae														
Eteone sp.														
Phyllodoce arenae														1
Phyllodocidae[1]														
Phyllodocidae Type 1[3]														
Polynoidae					1								1	1
Pisioninae														
Sigalion arenicola								1						
Sthenelais boa														
Sthenelais limicola		1				1			1					
Exogone sp. [3]						1								
Syllidae														
Syllis sp. [3]														
Sabellidae														
Polydora sp.														
Prionospio sp.									1					
Scolelepis sp.														
Spio sp.														
Spionidae[1]		1												
Spiophanes bombyx					3			3		1			1	

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														
Polychaeta cont.														
Spiophanes wigleyi														
Streblospio benedicti														
Ampharetidae							1			1				
Cirratulidae	3												2	
Brada sp.					1									1
Flabelligeridae[1]													1	
Pherusa sp.										1		2		1
Pectinaria gouldii														
Terebellidae														
Terebellides stroemii[3]												4	16	3
Amastigos caperatus														
Capitellidae[1]														
Mediomastus sp.														
Spiochaetopterus sp.														
Cossura longocirrata												1	3	1
Magelona rosea														
Clymenella sp.[1]								2						
Clymenella torquata					1			3	3	8	7	1	1	2
Clymenella zonalis														
Maldanidae[1]			1						2					
Sabaco elongatus														
Ophelia sp.														
Opheliidae[1]														
Leitoscoloplos sp.		4		3							1			
Orbinia sp.														
Orbiniidae[1]	1													
Scoloplos sp.														
Aricidea sp.			1						1	1				
Paraonidae		10		1	4			8	10	35	36	12	9	1
Polygordius sp.	1	28	2	1		3			1					
Sabellaria vulgaris														
Scalibregma inflatum														
Travisia carnea														
Polychaeta[1]					1		1							
Sipuncula														
Sipuncula														
Total Organisms*	239	132	44	23	135	16	19	345	128	177	203	152	122	177
Taxa Richness*	10	18	15	11	21	9	12	18	21	23	18	20	19	25
Pielou's Evenness*	0.59	0.32	0.79	0.92	0.66	0.86	0.95	0.52	0.59	0.67	0.67	0.51	0.79	0.55
Shannon Diversity*	1.15	0.63	1.65	2.21	2.01	1.90	2.36	1.50	1.78	2.11	1.94	1.53	2.31	1.76

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/sample														

*All metrics were calculated after taxonomic ambiguity in the dataset presented above was resolved using the RPMC-G method described in Cuffney et al. (2007). The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Ascidiacea																											
Perophora viridis																											
Molgulidae																											
Cnidaria																											
Actiniaria[3]																							1	2			
Cerianthidae																											
Crustacea																											
Ampelisca sp.		1		25	5																		2				16
Byblis serrata				1	1	15	5									1											
Ampithoidae																											
Aoridae[1]																											
Grandidierella japonica																											
Microdeutopus sp.																											
Batea sp.																											
Bathyporeia sp.																											
Caprellidae																											
Casco bigelowi																											
Corophium sp.																											
Leptocheirus sp.																											1
Dexaminidae																											
Acanthohaustorius sp.																											
Parahaustorius sp.																											
Protohaustorius sp.	4																										
Pseudohaustorius sp.																						1					
Erichthonius sp.																											
Idunella sp.																											
Lysianassidae																											
Melita sp.																											
Synchelidium sp.						1																					
Photis sp.																											
Harpinia sp.																											
Phoxocephalus sp.																							5				1
Rhepoxynius epistomus	1																					1					
Orchomenella sp.																											
Unciola sp.																							2			1	4
Amphipoda[1]			1																					1	2		1
Diastylis sp.							1								1					1			1				1
Leptostylis sp.																											
Oxyurostylis sp.																											
Eudorella sp.								2	7																		
Campylaspis sp.																											
Gilvossius setimanus																											
Crangon septemspinosa																											
Pagurus sp.																											

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Crustacea cont.																											
Pinnixinae																											
Upogebia affinis																											
Xanthidae																											
Ancinus sp.																											
Ptilanthura tenuis																											
Chiridotea sp.											1																
Politolana sp.																											
Edotia montosa							1															1					
Tanaidacea																											
Echinodermata																											
Echinarachnius parma																					2						
Amphioplus abditus																											
Mollusca																											
Solenidae				1																							
Anadara transversa																											
Parvicardium pinnulatum																											
Macoma sp.									2																		
Tellininae		1		4	3	3	1		1											5		5		2			
Astarte castanea							2																				
Astarte undata																											
Crassinella lunulata																											
Lucinoma sp.																											
Thyasira sp.								1																			
Caryocorbula contracta																											
Crenella sp.																											
Mytilus edulis																											
Yoldia sp.									6	1															1		
Pectinidae																											
Petrasma borealis																											
Spisula solidissima																	1										
Lyonsia sp.																											
Pandora sp.																											
Periploma papyratium								2																			
Bivalvia[1]					1	2	2	2	15		1		1							2				3			
Chaetoderma sp.																											
Cephalaspidea				1																							
Crepidula fornicata											1																
Lacuna sp.																											
Naticidae																											
Skeneopsis planorbis																											
Astyris lunata																											1
Columbellidae[3]																											
Ilyanassa trivittata											1								1			1				1	1

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Mollusca cont,																											
Nucula proxima		39	1		1		108	25	144	8						1				87		2	45	12	36		62
Pyramidellidae																											
Turbonilla sp. [2]																											
Nemertea																											
Nemertea	1	1							1				1		1				1	2		1	1	1	2		
Oligochaeta																											
Enchytraeidae						36						1		1		1											
Naididae w/ hair chaetae														1	2			4	4							1	
Naididae w/out hair chaetae	1		11		1	1		2			1	3	4		1	4	1	1	1	8		3	9		1	3	
Polychaeta																											
Dorvilleidae			2									1															
Paucibranchia bellii														1													
Lumbrinerides acuta												5	4	3	4									2			
Ninoe nigripes									1																		1
Scoletoma sp.								2	1									1	1	1		1	3	1	3		2
Drilonereis sp.		2						2										1									1
Onuphis sp.		1																									
Scoloplos sp.																											
Glycera sp.	1	1									5			1							1						
Goniadella gracilis												1	3	3	13	1	6	27	6		2	1					
Hesionidae																											
Nephtys sp.		4	1			3	1	2	2	1							1				1	1		2	6	1	1
Nereididae																											
Eteone sp.																											
Phyllodoce arenae				1																							
Phyllodocidae[1]												1															
Phyllodocidae Type 1[3]																											
Polynoidae																								1			1
Pisioninae											10	1															
Sigalion arenicola																											
Sthenelais boa																											
Sthenelais limicola																					1	1					
Exogone sp. [3]						11			1	1			6			1		4									
Syllidae			4								7	2	12		3											1	1
Syllis sp. [3]																											
Sabellidae																											
Polydora sp.																											
Prionospio sp.		3		11																							
Scolelepis sp.																											
Spio sp.																								1			
Spionidae[1]																								1			
Spiophanes bombyx	2	1		2																							

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											
Polychaeta cont.																											
Spiophanes wigleyi																											
Streblospio benedicti																											
Ampharetidae	1																	1						3	7		2
Cirratulidae		3	2	4				1	6			1	3	2									23	8		2	7
Brada sp.																									1		
Flabelligeridae[1]																											
Pherusa sp.																								2	3		
Pectinaria gouldii																											
Terebellidae			2		1																					1	
Terebellides stroemii[3]																											
Amastigos caperatus	4	51		2	16															2						13	
Capitellidae[1]																											
Mediomastus sp.																										4	
Spiochaetopterus sp.																											
Cossura longocirrata																											
Magelona rosea	3	2																									
Clymenella sp.[1]																											
Clymenella torquata																								2			
Clymenella zonalis																										1	
Maldanidae[1]							1																				
Sabaco elongatus																											
Ophelia sp.															1												
Opheliidae[1]																											
Leitoscoloplos sp.	3																			2		1					
Orbinia sp.	2														1												
Orbiniidae[1]																											
Scoloplos sp.				1	1				2																		
Aricidea sp.				2									1	1	2			1	1	1			1				2
Paraonidae						1		2	2																1		1
Polygordius sp.			22	1					2		12		13	30	27	1	7	12	30	2	1	4	4				2
Sabellaria vulgaris																											
Scalibregma inflatum																											
Travisia carnea	1				1						1							1									
Polychaeta[1]			1					1																			
Sipuncula																											
Sipuncula																			1			1					
Total Organisms*	24	110	45	56	30	71	119	41	178	11	39	15	47	43	56	10	16	53	46	111	8	25	96	37	64	29	108
Taxa Richness*	12	13	8	13	9	8	7	10	14	4	9	8	9	9	11	7	5	10	9	10	6	15	11	12	12	11	19
Pielou's Evenness*	0.59	0.32	0.79	0.72	0.70	0.68	0.23	0.66	0.35	0.64	0.80	0.89	0.87	0.55	0.68	0.90	0.78	0.66	0.57	0.41	0.97	0.92	0.67	0.84	0.65	0.78	0.57
Shannon Diversity*	1.15	0.63	1.65	1.85	1.54	1.41	0.45	1.51	0.93	0.89	1.75	1.86	1.90	1.20	1.63	1.75	1.25	1.52	1.26	0.94	1.73	2.49	1.62	2.08	1.62	1.87	1.67

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/sample																											

*All metrics were calculated after taxonomic ambiguity in the dataset presented above was resolved using the RPMC-G method described in Cuffney et al. (2007). The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Appendix L: Grab Summary Results

Benthic Sample Taxonomy and Density Results, Processed to Remove Taxonomic Ambiguity

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Ascidiacea																					
Perophora viridis																					
Molgulidae										195.7											
Cnidaria																					
Actiniaria							521.9														
Cerianthidae			130.5																		
Crustacea																					
Ampelisca sp.	24269.8	8090	1044	3914	130.5	13179	15136	4175.4	521.9	15071	15462	391.4									
Byblis serrata															521.9					130.5	
Ampithoidae																					
Grandidierella japonica																					
Microdeutopus sp.																					
Batea sp.																					
Bathyporeia sp.																					
Caprellidae												391.4									
Casco bigelowi																					
Corophium sp.																					
Leptocheirus sp.							261.0			391.4	195.7										130.5
Dexaminidae																					
Acanthohaustorius sp.																					
Parahaustorius sp.																				261.0	521.9
Protohaustorius sp.																			391.4		
Pseudohaustorius sp.																					
Erichthonius sp.	3914.5			391.4																	261.0
Idunella sp.																					
Lysianassidae																					
Melita sp.											391.4										
Synchelidium sp.																					
Photis sp.																					
Harpinia sp.								261.0		195.7	587.2										
Phoxocephalus sp.																					
Rhepoxynius epistomus																			130.5	391.4	
Orchomenella sp.																					
Unciola sp.										978.6	195.7			261.0							
Diastylis sp.			130.5				521.9	261.0		195.7	782.9	391.4	261.0								
Leptostylis sp.											195.7										
Oxyurostylis sp.																					
Eudorella sp.	2348.7	130.5	652.4	1174	261.0			521.9	261.0	195.7	587.2										130.5
Campylaspis sp.										195.7											
Gilvossius setimanus																					
Crangon septemspinosa																					

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Crustacea cont.																					
Pagurus sp.																					
Pinnixinae																					
Upogebia affinis																					
Xanthidae																					
Ancinus sp.																				130.5	
Ptilanthura tenuis											195.7										
Chiridotea sp.																					
Politolana sp.																					
Edotia montosa								521.9			195.7										
Tanaidacea																					521.9
Echinodermata																					
Echinarachnius parma																			130.5		130.5
Amphioplus abditus	3131.6	521.9	1435	2349	1044	1304.8	2088	782.9													
Mollusca																					
Solenidae																					
Anadara transversa																					
Parvicardium pinnulatum											391.4	391.4									
Macoma sp.	782.9																				
Tellininae																				261.0	
Astarte castanea												391.4				261.0		261.0			
Astarte undata																					
Crassinella lunulata																					
Lucinoma sp.																					
Thyasira sp.											195.7										
Caryocorbula contracta																					
Crenella sp.											391.4										
Mytilus edulis																2610					
Yoldia sp.										195.7											
Pectinidae		130.5																			
Petrasma borealis																					
Spisula solidissima																					
Lyonsia sp.										195.7											
Pandora sp.																					
Periploma papyratium								261.0		391.4	978.6										
Chaetoderma sp.								261.0													
Cephalaspidea																					
Crepidula fornicata																261.0					
Lacuna sp.																					
Naticidae																					
Skeneopsis planorbis																					
Astyris lunata																					
Columbellidae																					
Ilyanassa trivittata																	130.5			130.5	

Sample ID	S22CT22-GB002-1	S22CT22-GB004-1	S22CT22-GB006-1	S22CT22-GB008-1	S22CT22-GB010-1	S22CT22-GB012-1	S22CT22-GB014-1	S22CT22-GB016-1	S22CT22-GB018-1	S22CT22-GB020-1	S22CT22-GB022-1	S22CT22-GB024-1	S22CT22-GB026-3	S22CT22-GB028-1	S22CT22-GB030-1	S22CT22-GB032-1	S22CT22-GB034-1	S22CT22-GB036-1	S22CT22-GB038-1	S22CT22-GB040-1	S22CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Mollusca cont.																					
Nucula proxima						130.5					391.4									261.0	
Pyramidellidae																					
Nemertea																					
Nemertea		130.5		391.4		261.0	782.9		261.0		195.7					261.0					
Oligochaeta																					
Enchytraeidae									261.0							782.9					
Naididae w/ hair chaetae										195.7									130.5		
Naididae w/out hair chaetae								261.0		587.2	587.2		782.9						391.4		
Polychaeta																					
Dorvilleidae														261.0		261.0					
Paucibranchia bellii																					
Lumbrinerides acuta													261.0	3132	521.9	261.0					
Ninoe nigripes										1370	391.4										
Scoletoma sp.		130.5								782.9	1566				521.9						
Drilonereis sp.	782.9		261.0				261.0	261.0		195.7			261.0								
Onuphis sp.																					
Scoloplos sp.																					
Glycera sp.														521.9			130.5	130.5			
Goniadella gracilis									1305				521.9	3132	261.0	521.9					
Hesionidae																					
Nephtys sp.	782.9	261.0				130.5		261.0		195.7	195.7	391.4			261.0					391.4	
Nereididae																					
Eteone sp.																					
Phyllodoce arenae																					
Phyllodocidae Type 1																					
Polynoidae					130.5											521.9		130.5			
Pisioninae														261.0							
Sigalion arenicola																521.9					
Sthenelais boa																					
Sthenelais limicola																					
Exogone sp.			130.5																		
Syllidae																1044					
Syllis sp.					261.0	130.5															
Sabellidae											587.2										
Polydora sp.																					
Prionospio sp.																					
Scolelepis sp.																					130.5
Spio sp.																					
Spiophanes bombyx							261.0														

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Polychaeta cont.																					
Spiophanes wigleyi							521.9														
Streblospio benedicti																					
Ampharetidae						130.5			261.0												
Cirratulidae								521.9		195.7	391.4			521.9				130.5			
Brada sp.											391.4										
Pherusa sp.										195.7											
Pectinaria gouldii																					
Terebellidae																261.0					
Terebellides stroemii										391.4	978.6										
Amastigos caperatus																					
Mediomastus sp.																					
Spiochaetopterus sp.																					
Cossura longocirrata					261.0			2348.7	261.0												
Magelona rosea																					
Clymenella torquata																					
Clymenella zonalis																					
Sabaco elongatus																					
Ophelia sp.										391.4											
Leitoscoloplos sp.																					
Orbinia sp.																					
Scoloplos sp.																		130.5			
Aricidea sp.											195.7							130.5	130.5		
Paraonidae					1827			521.9	521.9	391.4	782.9										
Polygordius sp.									261.0	195.7	195.7	2349	261.0		521.9						130.5
Sabellaria vulgaris																				130.5	
Scalibregma inflatum																				130.5	
Travisia carnea																					
Sipuncula																					
Sipuncula			130.5	782.9		261.0				195.7											
Total Organisms*	36013	9395	3914	9003	3914	15527	20355	11222	3914	23487	27597	4697	2349	8090	2610	7568	261	913	1305	2218	1957
Taxa Richness*	7	7	8	6	7	8	9	14	9	24	27	7	6	7	6	12	2	6	6	10	8
Pielou's Evenness*	0.59	0.32	0.79	0.82	0.76	0.31	0.47	0.78	0.90	0.53	0.62	0.82	0.94	0.73	0.98	0.86	1.00	0.98	0.92	0.96	0.90
Shannon Diversity*	1.15	0.63	1.65	1.46	1.48	0.65	1.03	2.06	1.99	1.69	2.03	1.59	1.68	1.42	1.75	2.13	0.69	1.75	1.64	2.20	1.88

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Ascidiacea																						
Perophora viridis																						
Molgulidae																						
Cnidaria																						
Actiniaria																	195.7					
Cerianthidae																						
Crustacea																						
Ampelisca sp.										293.6				782.9	261.0	2153.0	1174	2479	391.4	261.0	1174	2610
Byblis serrata				130.5												195.7						
Ampithoidae																						
Grandidierella japonica																						
Microdeutopus sp.													130.5									
Batea sp.														521.9								
Bathyporeia sp.																						
Caprellidae																						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.																						
Dexaminidae																						
Acanthohaustorius sp.																						
Parahaustorius sp.																						
Protohaustorius sp.																						
Pseudohaustorius sp.																						
Erichthonius sp.																						
Idunella sp.									130.5		130.5											
Lysianassidae																						
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus									130.5	293.6					261.0							
Orchomenella sp.																						
Unciola sp.					261.0			391.4	261.0											130.5		
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.																						
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus						130.5		130.5			130.5											
Crangon septemspinosa																						

Sample ID	S22CT22-GB044-2	S22CT22-GB046-1	S22CT22-GB048-1	S22CT22-GB050-1	S22CT22-GB052-2	S22CT22-GB054-1	S22CT22-GB056-1	S22CT22-GB058-1	S22CT22-GB060-1	S22CT22-GB062-1	S22CT22-GB064-1	S22CT22-GB066-1	S22CT22-GB067-1	S22CT22-GB068-1	S22CT22-GB072-2	S22CT22-GB072-3A-1	S22CT22-GB074-2	S22CT22-GB074-3A-1	S22CT22-GB076-2	S22CT22-GB078-1	S22CT22-GB080-2	S22CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Crustacea cont.																						
Pagurus sp.								130.5		880.8					261.0	195.7	195.7					
Pinnixinae																	195.7			130.5		
Upogebia affinis												130.5										
Xanthidae					261.0	130.5								261.0								
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.	626.3								130.5													
Edotia montosa																						
Tanaidacea							130.5			293.6												
Echinodermata																						
Echinarachnius parma																						
Amphioplus abditus		130.5																				
Mollusca																						
Solenidae																						
Anadara transversa					261.0				130.5													
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae														261.0		195.7		261.0				261.0
Astarte castanea																						
Astarte undata															261.0							
Crassinella lunulata			130.5		1305	130.5	521.9	3654		1762					261.0							
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta											130.5											
Crenella sp.																						
Mytilus edulis											130.5											
Yoldia sp.																						
Pectinidae																						
Petrasma borealis														261.0								
Spisula solidissima																						
Lyonsia sp.										293.6								130.5				
Pandora sp.					521.9				130.5													
Periploma papyratium	313.2																					
Chaetoderma sp.																						
Cephalaspidea																			130.5			
Crepidula fornicata					2610		261.0		10178					1827								
Lacuna sp.																						
Naticidae																						
Skeneopsis planorbis																						
Astyris lunata																					130.5	
Columbellidae					261.0			130.5														
Ilyanassa trivittata											130.5					195.7	391.4	130.5	391.4		130.5	130.5

Sample ID	S22CT22-GB044-2	S22CT22-GB046-1	S22CT22-GB048-1	S22CT22-GB050-1	S22CT22-GB052-2	S22CT22-GB054-1	S22CT22-GB056-1	S22CT22-GB058-1	S22CT22-GB060-1	S22CT22-GB062-1	S22CT22-GB064-1	S22CT22-GB066-1	S22CT22-GB067-1	S22CT22-GB068-1	S22CT22-GB072-2	S22CT22-GB072-3A-1	S22CT22-GB074-2	S22CT22-GB074-3A-1	S22CT22-GB076-2	S22CT22-GB078-1	S22CT22-GB080-2	S22CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
	Organisms/m^2																					
Mollusca cont.																						
Nucula proxima																						
Pyramidellidae																						
Nemertea																						
Nemertea	313.2						130.5	130.5		293.6												
Oligochaeta																						
Enchytraeidae								261.0	1565.8				130.5									
Naididae w/ hair chaetae														261.0								
Naididae w/out hair chaetae								261.0	1304.8		130.5	521.9		1305		1565.8	195.7				130.5	
Polychaeta																						
Dorvilleidae																						
Paucibranchia bellii																						
Lumbrinerides acuta																						
Ninoe nigripes																					261.0	
Scoletoma sp.									130.5				391.4				391.4					130.5
Drilonereis sp.														261.0								
Onuphis sp.																						
Scoloplos sp.																						130.5
Glycera sp.						130.5					130.5									130.5	130.5	
Goniadella gracilis						130.5																
Hesionidae																						
Nephtys sp.									130.5		261.0	130.5	130.5		782.9		195.7				261.0	
Nereididae											130.5	130.5		782.9								
Eteone sp.																						
Phyllodoce arenae																		130.5				130.5
Phyllodocidae Type 1																						
Polynoidae							130.5		261.0					261.0					195.7			
Pisioninae																						
Sigalion arenicola																				130.5		
Sthenelais boa																						
Sthenelais limicola																						
Exogone sp.																			195.7			
Syllidae					261.0		130.5		913.4	293.6	130.5			261.0								
Syllis sp.												130.5										
Sabellidae																						
Polydora sp.		130.5							391.4													
Prionospio sp.																	978.6				261.0	130.5
Scolelepis sp.																						
Spio sp.																						
Spiophanes bombyx																						130.5

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																						
Ampharetidae					521.9	261.0	261.0	261.0	261.0		130.5											
Cirratulidae	313.2	130.5			14875			130.5	391.4			130.5		521.9		782.9	195.7					
Brada sp.																						
Pherusa sp.																						
Pectinaria gouldii																						
Terebellidae		130.5							130.5								195.7		195.7			
Terebellides stroemii																						
Amastigos caperatus																						
Mediomastus sp.							130.5		130.5			130.5	130.5	261.0		391.4	391.4			130.5	391.4	
Spiochaetopterus sp.																						
Cossura longocirrata																						
Magelona rosea							130.5															
Clymenella torquata							130.5				130.5		130.5	521.9								
Clymenella zonalis												521.9	391.4	1827			391.4		391.4			
Sabaco elongatus													261.0						195.7	130.5		
Ophelia sp.																						
Leitoscoloplos sp.														1044			391.4					130.5
Orbinia sp.																						
Scoloplos sp.																				130.5		
Aricidea sp.	313.2				261.0			261.0	652.4						521.9	3718.8	195.7					
Paraonidae																						
Polygordius sp.	313.2				261.0				652.4	293.6							391.4				130.5	
Sabellaria vulgaris							130.5			293.6												
Scalibregma inflatum				130.5							130.5					195.7	195.7		587.2			261.0
Travisia carnea																						
Sipuncula																						
Sipuncula																						
Total Organism Density*	2192	522	130	261	21660	913	2088	5741	18007	4991	1827	1827	1696	11222	2610	9590.47	6263	3132	2544	1305	3001	4045
Taxa Richness*	6	4	1	2	12	6	11	11	20	10	13	8	8	17	7	10	17	5	8	9	10	10
Pielou's Evenness*	0.98	1.00	**	1.00	0.50	0.98	0.94	0.61	0.60	0.87	0.99	0.89	0.94	0.90	0.94	0.75	0.92	0.49	0.96	0.98	0.85	0.61
Shannon Diversity*	1.75	1.39	0.00	0.69	1.24	1.75	2.25	1.46	1.79	2.01	2.54	1.85	1.95	2.56	1.83	1.73	2.62	0.79	1.99	2.16	1.95	1.41

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset:*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						
Ascidiacea																						
Perophora viridis							130.5															
Molgulidae																						
Cnidaria																						
Actiniaria																						
Cerianthidae																						
Crustacea																						
Ampelisca sp.	391.4	1696			130.5					130.5	521.9				4306	130.5						
Byblis serrata					261.0																	
Ampithoidae													652.4									
Grandidierella japonica																					261.0	
Microdeutopus sp.																				2088		
Batea sp.																						
Bathyporeia sp.							130.5															
Caprellidae															261.0	261.0						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.											130.5				652.4				130.5			
Dexaminidae																						939.5
Acanthohaustorius sp.							261.0															
Parahaustorius sp.																						
Protohaustorius sp.							1957	261.0														
Pseudohaustorius sp.																						
Erichthonius sp.	130.5																					
Idunella sp.																						
Lysianassidae									521.9									130.5				
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus														2610			521.9					
Orchomenella sp.																						
Unciola sp.				434.9					521.9													
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.										130.5												
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus																						
Crangon septemspinosa															130.5							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						
Crustacea cont.																						
Pagurus sp.	130.5		130.5						1043.9										652.4		782.9	
Pinnixinae																						
Upogebia affinis																						
Xanthidae			130.5																130.5			
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.				217.5																		
Edotia montosa																						
Tanaidacea									1043.9													
Echinodermata																						
Echinarachnius parma						1391.8																
Amphioplus abditus																						
Mollusca																						
Solenidae																						
Anadara transversa																						
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae	130.5									130.5	521.9			2610			130.5				261.0	
Astarte castanea								261.0														
Astarte undata																						
Crassinella lunulata									9916.7													
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta																						
Crenella sp.																						
Mytilus edulis			521.9																261.0			
Yoldia sp.																						
Pectinidae																						
Petrasma borealis										261.0												
Spisula solidissima																						
Lyonsia sp.																261.0						
Pandora sp.																						
Periploma papyratium																						
Chaetoderma sp.																						
Cephalaspidea																						
Crepidula fornicata			2218																1696			
Lacuna sp.																						626.3
Naticidae																						
Skeneopsis planorbis		130.5																				
Astyris lunata									521.9							130.5						
Columbellidae										130.5											261.0	626.3
Ilyanassa trivittata	130.5	130.5	130.5							130.5	130.5				130.5							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
	Organisms/m^2																					
Mollusca cont.																						
Nucula proxima										130.5	521.9											
Pyramidellidae			1044								1044				261.0		130.5					
Nemertea																						
Nemertea							130.5	521.9							130.5	261.0						
Oligochaeta																						
Enchytraeidae						1391.8						304.5	3588								261.0	
Naididae w/ hair chaetae			130.5																			
Naididae w/out hair chaetae	261.0			1740			130.5	1566				1826.8	326.2	5219				130.5		2088	782.9	313.2
Polychaeta																						
Dorvilleidae									1565.8												261.0	
Paucibranchia bellii																						
Lumbrinerides acuta				1740																		
Ninoe nigripes															130.5							
Scoletoma sp.			391.4	217.5	391.4			521.9			261.0	2435.7				130.5		261.0	391.4	1392	261.0	2192
Drilonereis sp.																						
Onuphis sp.																						
Scoloplos sp.																						
Glycera sp.	130.5			217.5		1391.8										130.5						
Goniadella gracilis				434.9																		
Hesionidae									521.9													
Nephtys sp.	130.5	130.5			391.4			261.0			261.0			5219							261.0	
Nereididae											130.5		326.2									
Eteone sp.																						313.2
Phyllodoce arenae																						
Phyllodocidae Type 1									521.9													
Polynoidae			130.5						521.9							130.5			261.0			
Pisioninae									1043.9													
Sigalion arenicola				217.5	130.5		261.0															
Sthenelais boa																						313.2
Sthenelais limicola																						
Exogone sp.					130.5							304.5									261.0	
Syllidae	130.5				261.0	1391.8			1565.8				652.4								782.9	313.2
Syllis sp.																						
Sabellidae																						
Polydora sp.				434.9						261.0					130.5	782.9						313.2
Prionospio sp.	261.0	130.5									130.5				261.0		261.0					
Scolelepis sp.																						
Spio sp.																						939.5
Spiophanes bombyx							130.5														521.9	

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																					261.0	
Ampharetidae			130.5		130.5							304.5							130.5			
Cirratulidae	130.5		391.4	1305	391.4			261.0			261.0	1522.3				391.4		521.9	782.9	1392	782.9	
Brada sp.																						
Pherusa sp.																						
Pectinaria gouldii										130.5						130.5						
Terebellidae									12004			304.5	326.2			130.5				1392	2087.7	1253
Terebellides stroemii																						
Amastigos caperatus																						
Mediomastus sp.	652.4		130.5									608.9									261.0	
Spiochaetopterus sp.												304.5										
Cossura longocirrata																						
Magelona rosea							130.5															
Clymenella torquata							130.5			130.5	782.9	913.4			521.9		913.4				2087.7	313.2
Clymenella zonalis		521.9							521.9		261.0	304.5						130.5	261.0			
Sabaco elongatus											130.5	304.5										
Ophelia sp.																						
Leitoscoloplos sp.	130.5												326.2		261.0							
Orbinia sp.																						
Scoloplos sp.																						
Aricidea sp.						1391.8	652.4	782.9	521.9			304.5		2610								
Paraonidae				217.5	130.5	1391.8	391.4															
Polygordius sp.				1087	913.4	73766	130.5	782.9				304.5								1392		
Sabellaria vulgaris																						
Scalibregma inflatum					130.5							304.5			130.5	391.4				1392	261.0	
Travisia carnea					130.5																	
Sipuncula																						
Sipuncula																						
Total Organism Density*	2740	2740	5480	8264	3523	82117	4567	5219	32360	1566	5089	10352	6198	18268	7307	3262	1957	1174	4697	11135	10700	8455
Taxa Richness*	13	6	12	12	13	7	13	9	15	10	14	15	7	5	13	13	5	5	10	7	18	12
Pielou's Evenness*	0.92	0.67	0.77	0.87	0.91	0.26	0.78	0.91	0.70	0.98	0.91	0.87	0.72	0.96	0.63	0.92	0.83	0.89	0.84	0.99	0.88	0.90
Shannon Diversity*	2.37	1.19	1.91	2.16	2.32	0.51	1.99	1.99	1.89	2.25	2.39	2.35	1.41	1.55	1.62	2.36	1.34	1.43	1.93	1.93	2.55	2.24

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset:*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Ascidiacea														
Perophora viridis														
Molgulidae														
Cnidaria														
Actiniaria														
Cerianthidae														
Crustacea														
Ampelisca sp.	2087.7	1696.3	782.9	521.9	9220.8	130.5		20355	9916.7	5088.8	12526	34447	4827.9	12657
Byblis serrata			391.4							130.5				
Ampithoidae														
Grandidierella japonica														
Microdeutopus sp.														
Batea sp.														
Bathyporeia sp.														
Caprellidae							130.5				261.0			
Casco bigelowi									521.9					130.5
Corophium sp.		130.5						261.0	1043.9	261.0	1826.8			
Leptocheirus sp.								782.9	521.9		782.9	695.9		261.0
Dexaminidae														
Acanthohaustorius sp.														
Parahaustorius sp.														
Protohaustorius sp.														
Pseudohaustorius sp.							130.5							
Erichthonius sp.		1174.3	1043.9	261.0	4523.4			16180	36535	6132.7	18529	1739.8	2087.7	2740.1
Idunella sp.														
Lysianassidae														130.5
Melita sp.														
Synchelidium sp.														
Photis sp.														130.5
Harpinia sp.														
Phoxocephalus sp.		130.5	130.5		348.0			391.4	1043.9	261.0	1565.8			
Rhepoxynius epistomus			261.0	521.9		130.5	261.0							
Orchomenella sp.					174.0									
Unciola sp.		130.5	391.4		1739.8			391.4	1043.9		1304.8	348.0		
Diastylis sp.	8350.9	2870.6	130.5	130.5	174.0		261.0	130.5	1043.9	261.0	521.9		261.0	261.0
Leptostylis sp.														130.5
Oxyurostylis sp.														
Eudorella sp.	2087.7	130.5	130.5	130.5	348.0			521.9	521.9	391.4	782.9	348.0		130.5
Campylaspis sp.														
Gilvossius setimanus														
Crangon septemspinosa														

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Crustacea cont.														
Pagurus sp.														
Pinnixinae														
Upogebia affinis														
Xanthidae														
Ancinus sp.														
Ptilanthura tenuis					174.0							348.0		
Chiridotea sp.						130.5								
Politolana sp.														
Edotia montosa														
Tanaidacea							130.5							
Echinodermata														
Echinarachnius parma		130.5				130.5	521.9							
Amphioplus abditus													1435.3	130.5
Mollusca														
Solenidae			130.5											
Anadara transversa														
Parvicardium pinnulatum					174.0					130.5				
Macoma sp.														
Tellininae			130.5							130.5				
Astarte castanea														
Astarte undata														
Crassinella lunulata														
Lucinoma sp.										391.4	261.0	348.0		130.5
Thyasira sp.					174.0			521.9	521.9			1043.9	391.4	521.9
Caryocorbula contracta														
Crenella sp.														
Mytilus edulis														
Yoldia sp.		391.4						130.5						
Pectinidae														
Petrasma borealis														
Spisula solidissima														
Lyonsia sp.														
Pandora sp.														
Periploma papyratium					695.9				521.9			348.0	261.0	
Chaetoderma sp.														
Cephalaspidea														
Crepidula fornicata														
Lacuna sp.														
Naticidae					174.0									
Skeneopsis planorbis														
Astyris lunata														
Columbellidae														
Ilyanassa trivittata										130.5				

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
	Organisms/m^2													
Mollusca cont.														
Nucula proxima	227562	1174.3		521.9	3305.6	782.9	130.5	2348.7		2740.1	1043.9	3131.6	261.0	3001.1
Pyramidellidae														
Nemertea														
Nemertea	1043.9	261.0	652.4	130.5			130.5	652.4		130.5		348.0		
Oligochaeta														
Enchytraeidae														
Naididae w/ hair chaetae													130.5	
Naididae w/out hair chaetae	1043.9	2609.7	391.4		174.0		261.0		1043.9	130.5	1043.9			130.5
Polychaeta														
Dorvilleidae														
Paucibranchia bellii														
Lumbrinerides acuta														
Ninoe nigripes									1565.8	391.4	261.0	695.9	391.4	652.4
Scoletoma sp.	2087.7							130.5		130.5	521.9	348.0	1043.9	391.4
Drilonereis sp.					174.0				1043.9			348.0	130.5	
Onuphis sp.														
Scoloplos sp.														
Glycera sp.		261.0		130.5		130.5	130.5			130.5				
Goniadella gracilis														
Hesionidae														
Nephtys sp.	1043.9	521.9	782.9		174.0		261.0	261.0	1043.9		261.0	1391.8	391.4	130.5
Nereididae														
Eteone sp.														
Phyllodoce arenae														130.5
Phyllodocidae Type 1														
Polynoidae					174.0								130.5	130.5
Pisioninae														
Sigalion arenicola								130.5						
Sthenelais boa														
Sthenelais limicola		130.5				130.5			521.9					
Exogone sp.						130.5								
Syllidae														
Syllis sp.														
Sabellidae														
Polydora sp.														
Prionospio sp.									521.9					
Scolelepis sp.														
Spio sp.														
Spiophanes bombyx					521.9			391.4		130.5			130.5	

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Polychaeta cont.														
Spiophanes wigleyi														
Streblospio benedicti														
Ampharetidae							130.5			130.5				
Cirratulidae	3131.6												261.0	
Brada sp.					174.0									130.5
Pherusa sp.										130.5		695.9		130.5
Pectinaria gouldii														
Terebellidae														
Terebellides stroemii												1391.8	2087.7	391.4
Amastigos caperatus														
Mediomastus sp.														
Spiochaetopterus sp.														
Cossura longocirrata												348.0	391.4	130.5
Magelona rosea														
Clymenella torquata					174.0			391.4	1565.8	1043.9	1826.8	348.0	130.5	261.0
Clymenella zonalis														
Sabaco elongatus														
Ophelia sp.														
Leitoscoloplos sp.		521.9		391.4							261.0			
Orbinia sp.														
Scoloplos sp.														
Aricidea sp.			130.5						521.9	130.5				
Paraonidae		1304.8		130.5	695.9			1043.9	5219.3	4566.9	9394.7	4175.4	1174.3	130.5
Polygordius sp.	1043.9	3653.5	261.0	130.5		391.4			521.9					
Sabellaria vulgaris														
Scalibregma inflatum														
Travisia carnea														
Sipuncula														
Sipuncula														
Total Organism Density*	249483	17224	5741	3001	23487	2088	2479	45017	66807	23095	52976	52889	15919	23095
Taxa Richness*	10	18	15	11	21	9	12	18	21	23	18	20	19	25
Pielou's Evenness*	0.59	0.32	0.79	0.92	0.66	0.86	0.95	0.52	0.59	0.67	0.67	0.51	0.79	0.55
Shannon Diversity*	1.15	0.63	1.65	2.21	2.01	1.90	2.36	1.50	1.78	2.11	1.94	1.53	2.31	1.76

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/m^2																											
Ascidiacea																											
Perophora viridis																											
Molgulidae																											
Cnidaria																											
Actiniaria																							130.5	261.0			
Cerianthidae																											
Crustacea																											
Ampelisca sp.		130.5		3262.1	652.4																		521.9				5567.3
Byblis serrata				130.5	130.5	3914.5	1304.8									261.0											
Ampithoidae																											
Grandidierella japonica																											
Microdeutopus sp.																											
Batea sp.																											
Bathyporeia sp.																											
Caprellidae																											
Casco bigelowi																											
Corophium sp.																											
Leptocheirus sp.																											348.0
Dexaminidae																											
Acanthohaustorius sp.																											
Parahaustorius sp.																											
Protohaustorius sp.	521.9																										
Pseudohaustorius sp.																						130.5					
Erichthonius sp.																											
Idunella sp.																											
Lysianassidae																											
Melita sp.																											
Synchelidium sp.						261.0																					
Photis sp.																											
Harpinia sp.																											
Phoxocephalus sp.																							1304.8				348.0
Rhepoxynius epistomus	130.5																					130.5					
Orchomenella sp.																											
Unciola sp.																							521.9			261.0	1391.8
Diastylis sp.							261.0								261.0					391.4			261.0				348.0
Leptostylis sp.																											
Oxyurostylis sp.																											
Eudorella sp.								521.9	1141.7																		
Campylaspis sp.																											
Gilvossius setimanus																											
Crangon septemspinosa																											

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
	Organisms/m^2																										
Crustacea cont.																											
Pagurus sp.																											
Pinnixinae																											
Upogebia affinis																											
Xanthidae																											
Ancinus sp.																											
Ptilanthura tenuis																											
Chiridotea sp.											261.0																
Politolana sp.																											
Edotia montosa							261.0															130.5					
Tanaidacea																											
Echinodermata																											
Echinarachnius parma																					261.0						
Amphioplus abditus																											
Mollusca																											
Solenidae				130.5																							
Anadara transversa																											
Parvicardium pinnulatum																											
Macoma sp.									326.2																		
Tellininae		130.5		521.9	391.4	782.9	261.0		163.1											1957.2		652.4		261.0			
Astarte castanea							521.9																				
Astarte undata																											
Crassinella lunulata																											
Lucinoma sp.																											
Thyasira sp.								261.0																			
Caryocorbula contracta																											
Crenella sp.																											
Mytilus edulis																											
Yoldia sp.									978.6	261.0															130.5		
Pectinidae																											
Petrasma borealis																											
Spisula solidissima																	261.0										
Lyonsia sp.																											
Pandora sp.																											
Periploma papyratium								521.9																			
Chaetoderma sp.																											
Cephalaspidea				130.5																							
Crepidula fornicata											261.0																
Lacuna sp.																											
Naticidae																											
Skeneopsis planorbis																											
Astyris lunata																											348.0
Columbellidae																											
Ilyanassa trivittata											261.0								261.0			130.5				261.0	348.0

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/m^2																											
Mollusca cont.																											
Nucula proxima		5088.8	261.0		130.5		28184	6524.1	23487	2087.7						261.0				34056		261.0	11743	1565.8	4697.4		21573
Pyramidellidae																											
Nemertea																											
Nemertea	130.5	130.5							163.1				652.4		261.0				261.0	782.9		130.5	261.0	130.5	261.0		
Oligochaeta																											
Enchytraeidae						9394.7						261.0		261.0		261.0											
Naididae w/ hair chaetae														261.0	521.9			521.9	1043.9							261.0	
Naididae w/out hair chaetae	130.5		2870.6		130.5	261.0		521.9			261.0	782.9	2609.7		261.0	1043.9	261.0	130.5	261.0	3131.6		391.4	2348.7		130.5	782.9	
Polychaeta																											
Dorvilleidae			521.9									261.0															
Paucibranchia bellii														261.0													
Lumbrinerides acuta												1304.8	2609.7	782.9	1043.9									261.0			
Ninoe nigripes									163.1																		348.0
Scoletoma sp.								521.9	163.1									130.5	261.0	391.4		130.5	782.9	130.5	391.4		695.9
Drilonereis sp.		261.0						521.9										130.5									348.0
Onuphis sp.		130.5																									
Scoloplos sp.																											
Glycera sp.	130.5	130.5									1304.8			261.0							130.5						
Goniadella gracilis												261.0	1957.2	782.9	3392.5	261.0	1565.8	3523.0	1565.8		261.0	130.5					
Hesionidae																											
Nephtys sp.		521.9	261.0			782.9	261.0	521.9	326.2	261.0							261.0				130.5	130.5		261.0	782.9	261.0	348.0
Nereididae																											
Eteone sp.																											
Phyllodoce arenae				130.5																							
Phyllodocidae Type 1																											
Polynoidae																									130.5		348.0
Pisioninae											2609.7	261.0															
Sigalion arenicola																											
Sthenelais boa																											
Sthenelais limicola																					130.5	130.5					
Exogone sp.						2870.6			163.1	261.0			3914.5			261.0		521.9									
Syllidae			1043.9								1826.8	521.9	7829.0		782.9											261.0	348.0
Syllis sp.																											
Sabellidae																											
Polydora sp.																											
Prionospio sp.		391.4		1435.3																							
Scolelepis sp.																											
Spio sp.																								130.5			
Spiophanes bombyx	261.0	130.5		261.0																							

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/m^2																											
Polychaeta cont.																											
Spiophanes wigleyi																											
Streblospio benedicti																											
Ampharetidae	130.5																	130.5					391.4	913.4		695.9
Cirratulidae		391.4	521.9	521.9				261.0	978.6			261.0	1957.2	521.9								6002.2	1043.9		521.9	2435.7
Brada sp.																								130.5			
Pherusa sp.																							261.0	391.4			
Pectinaria gouldii																											
Terebellidae			521.9		130.5																					261.0	
Terebellides stroemii																											
Amastigos caperatus	521.9	6654.6		261.0	2087.7															782.9						3392.5	
Mediomastus sp.																										1043.9	
Spiochaetopterus sp.																											
Cossura longocirrata																											
Magelona rosea	391.4	261.0																									
Clymenella torquata																							261.0				
Clymenella zonalis																										261.0	
Sabaco elongatus																											
Ophelia sp.															261.0												
Leitoscoloplos sp.	391.4																			782.9		130.5					
Orbinia sp.	261.0														261.0												
Scoloplos sp.				130.5	130.5				326.2																		
Aricidea sp.				261.0									652.4	261.0	521.9			130.5	261.0	391.4			261.0				695.9
Paraonidae						261.0		521.9	326.2																130.5		348.0
Polygordius sp.			5741.2	130.5					326.2		3131.6		8481.4	7829.0	7046.1	261.0	1826.8	1565.8	7829.0	782.9	130.5	521.9	1043.9				695.9
Sabellaria vulgaris																											
Scalibregma inflatum																											
Travisia carnea	130.5				130.5						261.0							130.5									
Sipuncula																											
Sipuncula																			261.0			130.5					
Total Organism Density*	3132	14353	11743	7307	3914	18529	31055	10700	29032	2871	10178	3914	30663	11222	14614	2610	4175	6916	12004	43451	1044	3262	25053	4828	8351	7568	37579
Taxa Richness*	12	13	8	13	9	8	7	10	14	4	9	8	9	9	11	7	5	10	9	10	6	15	11	12	12	11	19
Pielou's Evenness*	0.59	0.32	0.79	0.72	0.70	0.68	0.23	0.66	0.35	0.64	0.80	0.89	0.87	0.55	0.68	0.90	0.78	0.66	0.57	0.41	0.97	0.92	0.67	0.84	0.65	0.78	0.57
Shannon Diversity*	1.15	0.63	1.65	1.85	1.54	1.41	0.45	1.51	0.93	0.89	1.75	1.86	1.90	1.20	1.63	1.75	1.25	1.52	1.26	0.94	1.73	2.49	1.62	2.08	1.62	1.87	1.67

*All metrics were calculated using the corrected dataset presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.
Parent taxa with lower abundances than their taxonomic children were removed from the dataset. The following taxa were removed: Aoridae, Amphipoda, Bivalvia, Phyllodocidae, Spionidae, Flabelligeridae, Capitellidae*Clymenella* sp., Maldanidae, Opheliidae, Orbiniidae, Polychaeta.
Child taxa with lower abundance than their parent taxa were merged with the parent taxa. The following corrections were made to the dataset*Turbonilla* sp. merged with Pyramidellidae.
Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses. The following taxa were retianed for analyses: Actiniaria, Columbellidae, Phyllodocidae Type A, Syllidae, Terebellidae.
**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Appendix L: Grab Summary Results

Benthic Sample Taxonomy and Density Results, Not Processed to Remove Taxonomic Ambiguity

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Ascidiacea																					
Perophora viridis																					
Molgulidae										195.7											
Cnidaria																					
Actiniaria[3]							521.9														
Cerianthidae			130.5																		
Crustacea																					
Ampelisca sp.	24270	8089.9	1043.9	3914.5	130.5	13179	15136	4175.4	521.9	15071	15462	391.4									
Byblis serrata															521.9					130.5	
Ampithoidae																					
Aoridae[1]																					
Grandidierella japonica																					
Microdeutopus sp.																					
Batea sp.																					
Bathyporeia sp.																					
Caprellidae												391.4									
Casco bigelowi																					
Corophium sp.																					
Leptocheirus sp.							261.0			391.4	195.7										130.5
Dexaminidae																					
Acanthohaustorius sp.																					
Parahaustorius sp.																				261.0	521.9
Protohaustorius sp.																			391.4		
Pseudohaustorius sp.																					
Erichthonius sp.	3914.5			391.4																	261.0
Idunella sp.																					
Lysianassidae																					
Melita sp.											391.4										
Synchelidium sp.																					
Photis sp.																					
Harpinia sp.								261.0		195.7	587.2										
Phoxocephalus sp.																					
Rhepoxynius epistomus																			130.5	391.4	
Orchomenella sp.																					
Unciola sp.										978.6	195.7			261.0							
Amphipoda[1]		130.5					261.0	261.0			195.7	1565.8									261.0
Diastylis sp.			130.5				521.9	261.0		195.7	782.9	391.4	261.0								
Leptostylis sp.											195.7										
Oxyurostylis sp.																					
Eudorella sp.	2348.7	130.5	652.4	1174.3	261.0			521.9	261.0	195.7	587.2										130.5
Campylaspis sp.										195.7											
Gilvossius setimanus																					
Crangon septemspinosa																					

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
	Organisms/m^2																				
Crustacea cont.																					
Pagurus sp.																					
Pinnixinae																					
Upogebia affinis																					
Xanthidae																					
Ancinus sp.																				130.5	
Ptilanthura tenuis											195.7										
Chiridotea sp.																					
Politolana sp.																					
Edotia montosa								521.9			195.7										
Tanaidacea																					521.9
Echinodermata																					
Echinarachnius parma																			130.5		130.5
Amphioplus abditus	3131.6	521.9	1435.3	2348.7	1043.9	1304.8	2087.7	782.9													
Mollusca																					
Solenidae																					
Anadara transversa																					
Parvicardium pinnulatum											391.4	391.4									
Macoma sp.	782.9																				
Tellininae																				261.0	
Astarte castanea												391.4				261.0		261.0			
Astarte undata																					
Crassinella lunulata																					
Lucinoma sp.																					
Thyasira sp.											195.7										
Caryocorbula contracta																					
Crenella sp.											391.4										
Mytilus edulis																2609.7					
Yoldia sp.										195.7											
Pectinidae		130.5																			
Petrasma borealis																					
Spisula solidissima																					
Lyonsia sp.										195.7											
Pandora sp.																					
Periploma papyratium								261.0		391.4	978.6										
Bivalvia[1]					130.5					195.7	1565.8	782.9		261.0							
Chaetoderma sp.								261.0													
Cephalaspidea																					
Crepidula fornicata																261.0					
Lacuna sp.																					
Naticidae																					
Skeneopsis planorbis																					
Astyris lunata																					
Columbellidae[3]																					
Ilyanassa trivittata																	130.5			130.5	

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Mollusca cont.																					
Nucula proxima						130.5					391.4									261.0	
Pyramidellidae																					
Turbonilla sp. [2]																					
Nemertea																					
Nemertea		130.5		391.4		261.0	782.9		261.0		195.7					261.0					
Oligochaeta																					
Enchytraeidae									261.0							782.9					
Naididae w/ hair chaetae										195.7									130.5		
Naididae w/out hair chaetae								261.0		587.2	587.2		782.9						391.4		
Polychaeta																					
Dorvilleidae														261.0		261.0					
Paucibranchia bellii																					
Lumbrinerides acuta													261.0	3131.6	521.9	261.0					
Ninoe nigripes										1370.1	391.4										
Scoletoma sp.		130.5								782.9	1565.8				521.9						
Drilonereis sp.	782.9		261.0				261.0	261.0		195.7			261.0								
Onuphis sp.																					
Scoloplos sp.																					
Glycera sp.														521.9			130.5	130.5			
Goniadella gracilis									1304.8				521.9	3131.6	261.0	521.9					
Hesionidae																					
Nephtys sp.	782.9	261.0				130.5		261.0		195.7	195.7	391.4			261.0					391.4	
Nereididae																					
Eteone sp.																					
Phyllodoce arenae																					
Phyllodocidae[1]																					
Phyllodocidae Type 1[3]																					
Polynoidae					130.5											521.9		130.5			
Pisioninae														261.0							
Sigalion arenicola																521.9					
Sthenelais boa																					
Sthenelais limicola																					
Exogone sp. [3]			130.5																		
Syllidae																1043.9					
Syllis sp. [3]					261.0	130.5															
Sabellidae											587.2										
Polydora sp.																					
Prionospio sp.																					
Scolelepis sp.																					130.5
Spio sp.																					
Spionidae[1]								261.0												130.5	
Spiophanes bombyx							261.0														

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					
Polychaeta cont.																					
Spiophanes wigleyi							521.9														
Streblospio benedicti																					
Ampharetidae						130.5			261.0												
Cirratulidae								521.9		195.7	391.4			521.9				130.5			
Brada sp.											391.4										
Flabelligeridae[1]																					
Pherusa sp.										195.7											
Pectinaria gouldii																					
Terebellidae																261.0					
Terebellides stroemii[3]										391.4	978.6										
Amastigos caperatus																					
Capitellidae[1]																					
Mediomastus sp.																					
Spiochaetopterus sp.																					
Cossura longocirrata					261.0			2348.7	261.0												
Magelona rosea																					
Clymenella sp.[1]																					
Clymenella torquata																					
Clymenella zonalis																					
Maldanidae[1]							261.0	4175.4													
Sabaco elongatus																					
Ophelia sp.										391.4											
Opheliidae[1]																261.0					
Leitoscoloplos sp.																					
Orbinia sp.																					
Orbiniidae[1]																					
Scoloplos sp.																		130.5			
Aricidea sp.											195.7							130.5	130.5		
Paraonidae					1826.8			521.9	521.9	391.4	782.9										
Polygordius sp.									261.0	195.7	195.7	2348.7	261.0		521.9						130.5
Sabellaria vulgaris																				130.5	
Scalibregma inflatum																				130.5	
Travisia carnea																					
Polychaeta[1]															261.0						
Sipuncula																					
Sipuncula			130.5	782.9		261.0				195.7											
Total Organism Density*	36013	9395	3914	9003	3914	15527	20355	11222	3914	23487	27597	4697	2349	8090	2610	7568	261	913	1305	2218	1957
Taxa Richness*	7	7	8	6	7	8	9	14	9	24	27	7	6	7	6	12	2	6	6	10	8
Pielou's Evenness*	0.59	0.32	0.79	0.82	0.76	0.31	0.47	0.78	0.90	0.53	0.62	0.82	0.94	0.73	0.98	0.86	1.00	0.98	0.92	0.96	0.90
Shannon Diversity*	1.15	0.63	1.65	1.46	1.48	0.65	1.03	2.06	1.99	1.69	2.03	1.59	1.68	1.42	1.75	2.13	0.69	1.75	1.64	2.20	1.88

Sample ID	522CT22-GB002-1	522CT22-GB004-1	522CT22-GB006-1	522CT22-GB008-1	522CT22-GB010-1	522CT22-GB012-1	522CT22-GB014-1	522CT22-GB016-1	522CT22-GB018-1	522CT22-GB020-1	522CT22-GB022-1	522CT22-GB024-1	522CT22-GB026-3	522CT22-GB028-1	522CT22-GB030-1	522CT22-GB032-1	522CT22-GB034-1	522CT22-GB036-1	522CT22-GB038-1	522CT22-GB040-1	522CT22-GB042-1
Location Category	CT OECC																				
Area of Subsample (cm^2)	12.77	76.64	76.64	25.55	76.64	76.64	38.32	38.32	38.32	51.09	51.09	25.55	38.32	38.32	38.32	38.32	76.64	76.64	76.64	76.64	76.64
Organisms/m^2																					

*The raw dataset is presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Ascidiacea																						
Perophora viridis																						
Molgulidae																						
Cnidaria																						
Actiniaria[3]																	195.7					
Cerianthidae																						
Crustacea																						
Ampelisca sp.										293.6				782.9	261.0	2153.0	1174.3	2479.2	391.4	261.0	1174.3	2609.7
Byblis serrata				130.5												195.7						
Ampithoidae																						
Aoridae[1]																						
Grandidierella japonica																						
Microdeutopus sp.													130.5									
Batea sp.														521.9								
Bathyporeia sp.																						
Caprellidae																						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.																						
Dexaminidae																						
Acanthohaustorius sp.																						
Parahaustorius sp.																						
Protohaustorius sp.																						
Pseudohaustorius sp.																						
Erichthonius sp.																						
Idunella sp.									130.5		130.5											
Lysianassidae																						
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus									130.5	293.6					261.0							
Orchomenella sp.																						
Unciola sp.					261.0			391.4	261.0											130.5		
Amphipoda[1]							130.5							261.0								
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.																						
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus						130.5		130.5			130.5											
Crangon septemspinosa																						

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Crustacea cont.																						
Pagurus sp.								130.5		880.8					261.0	195.7	195.7					
Pinnixinae																	195.7			130.5		
Upogebia affinis												130.5										
Xanthidae					261.0	130.5								261.0								
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.	626.3								130.5													
Edotia montosa																						
Tanaidacea							130.5			293.6												
Echinodermata																						
Echinarachnius parma																						
Amphioplus abditus		130.5																				
Mollusca																						
Solenidae																						
Anadara transversa					261.0				130.5													
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae														261.0		195.7		261.0				261.0
Astarte castanea																						
Astarte undata															261.0							
Crassinella lunulata			130.5		1304.8	130.5	521.9	3653.5		1761.5					261.0							
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta											130.5											
Crenella sp.																						
Mytilus edulis											130.5											
Yoldia sp.																						
Pectinidae																						
Petrasma borealis														261.0								
Spisula solidissima																						
Lyonsia sp.										293.6								130.5				
Pandora sp.					521.9				130.5													
Periploma papyratium	313.2																					
Bivalvia[1]																	391.4					
Chaetoderma sp.																						
Cephalaspidea																				130.5		
Crepidula fornicata					2609.7		261.0		10178					1826.8								
Lacuna sp.																						
Naticidae																						
Skeneopsis planorbis																						
Astyris lunata																					130.5	
Columbellidae[3]					261.0			130.5														
Ilyanassa trivittata											130.5					195.7	391.4	130.5	391.4		130.5	130.5

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Mollusca cont.																						
Nucula proxima																						
Pyramidellidae																						
Turbonilla sp. [2]																						
Nemertea																						
Nemertea	313.2						130.5	130.5		293.6												
Oligochaeta																						
Enchytraeidae								261.0	1565.8				130.5									
Naididae w/ hair chaetae														261.0								
Naididae w/out hair chaetae								261.0	1304.8		130.5	521.9		1304.8		1565.8	195.7				130.5	
Polychaeta																						
Dorvilleidae																						
Paucibranchia bellii																						
Lumbrinerides acuta																						
Ninoe nigripes																					261.0	
Scoletoma sp.									130.5				391.4				391.4					130.5
Drilonereis sp.														261.0								
Onuphis sp.																						
Scoloplos sp.																						130.5
Glycera sp.						130.5					130.5									130.5	130.5	
Goniadella gracilis						130.5																
Hesionidae																						
Nephtys sp.									130.5		261.0	130.5	130.5		782.9		195.7				261.0	
Nereididae											130.5	130.5		782.9								
Eteone sp.																						
Phyllodoce arenae																		130.5				130.5
Phyllodocidae[1]																						
Phyllodocidae Type 1[3]																						
Polynoidae							130.5		261.0					261.0					195.7			
Pisioninae																						
Sigalion arenicola																				130.5		
Sthenelais boa																						
Sthenelais limicola																						
Exogone sp. [3]																			195.7			
Syllidae					261.0		130.5		913.4	293.6	130.5			261.0								
Syllis sp. [3]												130.5										
Sabellidae																						
Polydora sp.		130.5							391.4													
Prionospio sp.																	978.6				261.0	130.5
Scolelepis sp.																						
Spio sp.																						
Spionidae[1]									261.0													
Spiophanes bombyx																						130.5

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						
Polychaeta cont.																						
Spiophanes wigleyi																						
Streblospio benedicti																						
Ampharetidae					521.9	261.0	261.0	261.0	261.0		130.5											
Cirratulidae	313.2	130.5			14875			130.5	391.4			130.5		521.9		782.9	195.7					
Brada sp.																						
Flabelligeridae[1]																						
Pherusa sp.																						
Pectinaria gouldii																						
Terebellidae		130.5							130.5								195.7		195.7			
Terebellides stroemii[3]																						
Amastigos caperatus																						
Capitellidae[1]																						
Mediomastus sp.							130.5		130.5			130.5	130.5	261.0		391.4	391.4			130.5	391.4	
Spiochaetopterus sp.																						
Cossura longocirrata																						
Magelona rosea							130.5															
Clymenella sp.[1]																						
Clymenella torquata							130.5				130.5		130.5	521.9								
Clymenella zonalis												521.9	391.4	1826.8			391.4		391.4			
Maldanidae[1]																				130.5	130.5	
Sabaco elongatus													261.0						195.7	130.5		
Ophelia sp.																						
Opheliidae[1]																						
Leitoscoloplos sp.														1043.9			391.4					130.5
Orbinia sp.																						
Orbiniidae[1]																					130.5	
Scoloplos sp.																				130.5		
Aricidea sp.	313.2				261.0			261.0	652.4						521.9	3718.8	195.7					
Paraonidae																						
Polygordius sp.	313.2				261.0				652.4	293.6							391.4				130.5	
Sabellaria vulgaris							130.5			293.6												
Scalibregma inflatum				130.5							130.5					195.7	195.7		587.2			261.0
Travisia carnea																						
Polychaeta[1]				130.5																130.5		
Sipuncula																						
Sipuncula																						
Total Organism Density*	2192	522	130	261	21660	913	2088	5741	18007	4991	1827	1827	1696	11222	2610	9590	6263	3132	2544	1305	3001	4045
Taxa Richness*	6	4	1	2	12	6	11	11	20	10	13	8	8	17	7	10	17	5	8	9	10	10
Pielou's Evenness*	0.98	1.00	**	1.00	0.50	0.98	0.94	0.61	0.60	0.87	0.99	0.89	0.94	0.90	0.94	0.75	0.92	0.49	0.96	0.98	0.85	0.61
Shannon Diversity*	1.75	1.39	0.00	0.69	1.24	1.75	2.25	1.46	1.79	2.01	2.54	1.85	1.95	2.56	1.83	1.73	2.62	0.79	1.99	2.16	1.95	1.41

Sample ID	522CT22-GB044-2	522CT22-GB046-1	522CT22-GB048-1	522CT22-GB050-1	522CT22-GB052-2	522CT22-GB054-1	522CT22-GB056-1	522CT22-GB058-1	522CT22-GB060-1	522CT22-GB062-1	522CT22-GB064-1	522CT22-GB066-1	522CT22-GB067-1	522CT22-GB068-1	522CT22-GB072-2	522CT22-GB072-3A-1	522CT22-GB074-2	522CT22-GB074-3A-1	522CT22-GB076-2	522CT22-GB078-1	522CT22-GB080-2	522CT22-GB080-3A-1
Location Category	CT OECC																					
Area of Sample (cm^2)	31.93	76.64	76.64	76.64	38.32	76.64	76.64	76.64	76.64	34.06	76.64	76.64	76.64	38.32	38.32	51.09	51.09	76.64	51.09	76.64	76.64	76.64
Organisms/m^2																						

*The raw dataset is presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						
Ascidiacea																						
Perophora viridis							130.5															
Molgulidae																						
Cnidaria																						
Actiniaria[3]																						
Cerianthidae																						
Crustacea																						
Ampelisca sp.	391.4	1696.3			130.5					130.5	521.9				4305.9	130.5						
Byblis serrata					261.0																	
Ampithoidae													652.4									
Aoridae[1]																130.5						
Grandidierella japonica																					261.0	
Microdeutopus sp.																				2087.7		
Batea sp.																						
Bathyporeia sp.							130.5															
Caprellidae															261.0	261.0						
Casco bigelowi																						
Corophium sp.																						
Leptocheirus sp.											130.5				652.4				130.5			
Dexaminidae																						939.5
Acanthohaustorius sp.							261.0															
Parahaustorius sp.																						
Protohaustorius sp.							1957.2	261.0														
Pseudohaustorius sp.																						
Erichthonius sp.	130.5																					
Idunella sp.																						
Lysianassidae									521.9									130.5				
Melita sp.																						
Synchelidium sp.																						
Photis sp.																						
Harpinia sp.																						
Phoxocephalus sp.																						
Rhepoxynius epistomus														2609.7			521.9					
Orchomenella sp.																						
Unciola sp.				434.9					521.9													
Amphipoda[1]																			130.5			313.2
Diastylis sp.																						
Leptostylis sp.																						
Oxyurostylis sp.										130.5												
Eudorella sp.																						
Campylaspis sp.																						
Gilvossius setimanus																						
Crangon septemspinosa															130.5							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						
Crustacea cont.																						
Pagurus sp.	130.5		130.5						1043.9										652.4		782.9	
Pinnixinae																						
Upogebia affinis																						
Xanthidae			130.5																130.5			
Ancinus sp.																						
Ptilanthura tenuis																						
Chiridotea sp.																						
Politolana sp.				217.5																		
Edotia montosa																						
Tanaidacea									1043.9													
Echinodermata																						
Echinarachnius parma						1391.8																
Amphioplus abditus																						
Mollusca																						
Solenidae																						
Anadara transversa																						
Parvicardium pinnulatum																						
Macoma sp.																						
Tellininae	130.5									130.5	521.9			2609.7			130.5				261.0	
Astarte castanea								261.0														
Astarte undata																						
Crassinella lunulata									9916.7													
Lucinoma sp.																						
Thyasira sp.																						
Caryocorbula contracta																						
Crenella sp.																						
Mytilus edulis			521.9																261.0			
Yoldia sp.																						
Pectinidae																						
Petrasma borealis										261.0												
Spisula solidissima																						
Lyonsia sp.																261.0						
Pandora sp.																						
Periploma papyratium																						
Bivalvia[1]			130.5		130.5	4175.4																
Chaetoderma sp.																						
Cephalaspidea																						
Crepidula fornicata			2218.2																1696.3			
Lacuna sp.																						626.3
Naticidae																						
Skeneopsis planorbis		130.5																				
Astyris lunata									521.9							130.5						
Columbellidae[3]										130.5											261.0	626.3
Ilyanassa trivittata	130.5	130.5	130.5							130.5	130.5				130.5							

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						
Mollusca cont.																						
Nucula proxima										130.5	521.9											
Pyramidellidae			1043.9												261.0		130.5					
Turbonilla sp. [2]											1043.9											
Nemertea																						
Nemertea							130.5	521.9							130.5	261.0						
Oligochaeta																						
Enchytraeidae						1391.8						304.5	3588.3								261.0	
Naididae w/ hair chaetae			130.5																			
Naididae w/out hair chaetae	261.0			1739.8			130.5	1565.8				1826.8	326.2	5219.3				130.5		2087.7	782.9	313.2
Polychaeta																						
Dorvilleidae									1565.8												261.0	
Paucibranchia bellii																						
Lumbrinerides acuta				1739.8																		
Ninoe nigripes															130.5							
Scoletoma sp.			391.4	217.5	391.4			521.9			261.0	2435.7				130.5		261.0	391.4	1391.8	261.0	2192.1
Drilonereis sp.																						
Onuphis sp.																						
Scoloplos sp.																						
Glycera sp.	130.5			217.5		1391.8										130.5						
Goniadella gracilis				434.9																		
Hesionidae									521.9													
Nephtys sp.	130.5	130.5			391.4			261.0			261.0			5219.3							261.0	
Nereididae											130.5		326.2									
Eteone sp.																						313.2
Phyllodoce arenae																						
Phyllodocidae[1]			261.0																			
Phyllodocidae Type 1[3]									521.9													
Polynoidae			130.5						521.9							130.5			261.0			
Pisioninae									1043.9													
Sigalion arenicola				217.5	130.5		261.0															
Sthenelais boa																						313.2
Sthenelais limicola																						
Exogone sp. [3]					130.5							304.5									261.0	
Syllidae	130.5				261.0	1391.8			1565.8				652.4								782.9	313.2
Syllis sp. [3]																						
Sabellidae																						
Polydora sp.				434.9						261.0					130.5	782.9						313.2
Prionospio sp.	261.0	130.5									130.5				261.0		261.0					
Scolelepis sp.																						
Spio sp.																						939.5
Spionidae[1]																						
Spiophanes bombyx							130.5														521.9	

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
	Organisms/m^2																					
Polychaeta cont.																						
Spiophanes wigleyi																					261.0	
Streblospio benedicti																						
Ampharetidae			130.5		130.5							304.5							130.5			
Cirratulidae	130.5		391.4	1304.8	391.4			261.0			261.0	1522.3				391.4		521.9	782.9	1391.8	782.9	
Brada sp.																						
Flabelligeridae[1]																						
Pherusa sp.																						
Pectinaria gouldii										130.5						130.5						
Terebellidae									12004			304.5	326.2			130.5				1391.8	2087.7	1252.6
Terebellides stroemii[3]																						
Amastigos caperatus																						
Capitellidae[1]			130.5							521.9			652.4									
Mediomastus sp.	652.4		130.5									608.9									261.0	
Spiochaetopterus sp.												304.5										
Cossura longocirrata																						
Magelona rosea							130.5															
Clymenella sp.[1]																						
Clymenella torquata							130.5			130.5	782.9	913.4			521.9		913.4				2087.7	313.2
Clymenella zonalis		521.9							521.9		261.0	304.5						130.5	261.0			
Maldanidae[1]								261.0			261.0										782.9	
Sabaco elongatus											130.5	304.5										
Ophelia sp.																						
Opheliidae[1]																						
Leitoscoloplos sp.	130.5												326.2		261.0							
Orbinia sp.																						
Orbiniidae[1]																						
Scoloplos sp.																						
Aricidea sp.						1391.8	652.4	782.9	521.9			304.5		2609.7								
Paraonidae				217.5	130.5	1391.8	391.4															
Polygordius sp.				1087.4	913.4	73766	130.5	782.9				304.5								1391.8		
Sabellaria vulgaris																						
Scalibregma inflatum					130.5							304.5			130.5	391.4				1391.8	261.0	
Travisia carnea					130.5																	
Polychaeta[1]								261.0														
Sipuncula																						
Sipuncula																						
Total Organism Density*	2740	2740	5480	8264	3523	82117	4567	5219	32360	1566	5089	10352	6198	18268	7307	3262	1957	1174	4697	11135	10700	8455
Taxa Richness*	13	6	12	12	13	7	13	9	15	10	14	15	7	5	13	13	5	5	10	7	18	12
Pielou's Evenness*	0.92	0.67	0.77	0.87	0.91	0.26	0.78	0.91	0.70	0.98	0.91	0.87	0.72	0.96	0.63	0.92	0.83	0.89	0.84	0.99	0.88	0.90
Shannon Diversity*	2.37	1.19	1.91	2.16	2.32	0.51	1.99	1.99	1.89	2.25	2.39	2.35	1.41	1.55	1.62	2.36	1.34	1.43	1.93	1.93	2.55	2.24

Sample ID	522CT22-GB082-2	522CT22-GB082-3B-1	522CT22-GB084-1	522CT22-GB090A-1	522CT22-GB091A-1	522CT22-GB092A-1	522CT22-GB095A-1	522CT22-GB096A-2	522CT22-GB098-3B-1	522CT22-GB100-1	522CT22-GB101-1	522CT22-GB102-1	522CT22-GB103-1	522CT22-GB104-1	522CT22-GB105-1	522CT22-GB106-1	522CT22-GB107-1	522CT22-GB108-1	522CT22-GB109-1	522CT22-GB110-1	522CT22-GB111A-1	522CT22-GB112-1
Location Category	CT OECC																					
Area of Sample (cm^2)	76.64	76.64	76.64	45.98	76.64	7.18	76.64	38.32	19.16	76.64	76.64	32.85	30.66	3.83	76.64	76.64	76.64	76.64	76.64	14.37	38.32	31.93
Organisms/m^2																						

*The raw dataset is presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Ascidiacea														
Perophora viridis														
Molgulidae														
Cnidaria														
Actiniaria[3]														
Cerianthidae														
Crustacea														
Ampelisca sp.	2087.7	1696.3	782.9	521.9	9220.8	130.5		20355	9916.7	5088.8	12526	34447	4827.9	12657
Byblis serrata			391.4							130.5				
Ampithoidae														
Aoridae[1]														
Grandidierella japonica														
Microdeutopus sp.														
Batea sp.														
Bathyporeia sp.														
Caprellidae							130.5				261.0			
Casco bigelowi									521.9					130.5
Corophium sp.		130.5						261.0	1043.9	261.0	1826.8			
Leptocheirus sp.								782.9	521.9		782.9	695.9		261.0
Dexaminidae														
Acanthohaustorius sp.														
Parahaustorius sp.														
Protohaustorius sp.														
Pseudohaustorius sp.							130.5							
Erichthonius sp.		1174.3	1043.9	261.0	4523.4			16180	36535	6132.7	18529	1739.8	2087.7	2740.1
Idunella sp.														
Lysianassidae														130.5
Melita sp.														
Synchelidium sp.														
Photis sp.														130.5
Harpinia sp.														
Phoxocephalus sp.		130.5	130.5		348.0			391.4	1043.9	261.0	1565.8			
Rhepoxynius epistomus			261.0	521.9		130.5	261.0							
Orchomenella sp.					174.0									
Unciola sp.		130.5	391.4		1739.8			391.4	1043.9		1304.8	348.0		
Amphipoda[1]					695.9			261.0			1304.8	1391.8		
Diastylis sp.	8350.9	2870.6	130.5	130.5	174.0		261.0	130.5	1043.9	261.0	521.9		261.0	261.0
Leptostylis sp.														130.5
Oxyurostylis sp.														
Eudorella sp.	2087.7	130.5	130.5	130.5	348.0			521.9	521.9	391.4	782.9	348.0		130.5
Campylaspis sp.														
Gilvossius setimanus														
Crangon septemspinosa														

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Crustacea cont.														
Pagurus sp.														
Pinnixinae														
Upogebia affinis														
Xanthidae														
Ancinus sp.														
Ptilanthura tenuis					174.0							348.0		
Chiridotea sp.						130.5								
Politolana sp.														
Edotia montosa														
Tanaidacea							130.5							
Echinodermata														
Echinarachnius parma		130.5				130.5	521.9							
Amphioplus abditus													1435.3	130.5
Mollusca														
Solenidae			130.5											
Anadara transversa														
Parvicardium pinnulatum					174.0					130.5				
Macoma sp.														
Tellininae			130.5							130.5				
Astarte castanea														
Astarte undata														
Crassinella lunulata														
Lucinoma sp.										391.4	261.0	348.0		130.5
Thyasira sp.					174.0			521.9	521.9			1043.9	391.4	521.9
Caryocorbula contracta														
Crenella sp.														
Mytilus edulis														
Yoldia sp.		391.4						130.5						
Pectinidae														
Petrasma borealis														
Spisula solidissima														
Lyonsia sp.														
Pandora sp.														
Periploma papyratium					695.9				521.9			348.0	261.0	
Bivalvia[1]			391.4							130.5				
Chaetoderma sp.														
Cephalaspidea														
Crepidula fornicata														
Lacuna sp.														
Naticidae					174.0									
Skeneopsis planorbis														
Astyris lunata														
Columbellidae[3]														
Ilyanassa trivittata										130.5				

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Mollusca cont.														
Nucula proxima	227562	1174.3		521.9	3305.6	782.9	130.5	2348.7		2740.1	1043.9	3131.6	261.0	3001.1
Pyramidellidae														
Turbonilla sp. [2]														
Nemertea														
Nemertea	1043.9	261.0	652.4	130.5			130.5	652.4		130.5		348.0		
Oligochaeta														
Enchytraeidae														
Naididae w/ hair chaetae													130.5	
Naididae w/out hair chaetae	1043.9	2609.7	391.4		174.0		261.0		1043.9	130.5	1043.9			130.5
Polychaeta														
Dorvilleidae														
Paucibranchia bellii														
Lumbrinerides acuta														
Ninoe nigripes									1565.8	391.4	261.0	695.9	391.4	652.4
Scoletoma sp.	2087.7							130.5		130.5	521.9	348.0	1043.9	391.4
Drilonereis sp.					174.0				1043.9			348.0	130.5	
Onuphis sp.														
Scoloplos sp.														
Glycera sp.		261.0		130.5		130.5	130.5			130.5				
Goniadella gracilis														
Hesionidae														
Nephtys sp.	1043.9	521.9	782.9		174.0		261.0	261.0	1043.9		261.0	1391.8	391.4	130.5
Nereididae														
Eteone sp.														
Phyllodoce arenae														130.5
Phyllodocidae[1]														
Phyllodocidae Type 1[3]														
Polynoidae					174.0								130.5	130.5
Pisioninae														
Sigalion arenicola								130.5						
Sthenelais boa														
Sthenelais limicola		130.5				130.5			521.9					
Exogone sp. [3]						130.5								
Syllidae														
Syllis sp. [3]														
Sabellidae														
Polydora sp.														
Prionospio sp.									521.9					
Scolelepis sp.														
Spio sp.														
Spionidae[1]		130.5												
Spiophanes bombyx					521.9			391.4		130.5			130.5	

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														
Polychaeta cont.														
Spiophanes wigleyi														
Streblospio benedicti														
Ampharetidae							130.5			130.5				
Cirratulidae	3131.6												261.0	
Brada sp.					174.0									130.5
Flabelligeridae[1]													130.5	
Pherusa sp.										130.5		695.9		130.5
Pectinaria gouldii														
Terebellidae														
Terebellides stroemii[3]												1391.8	2087.7	391.4
Amastigos caperatus														
Capitellidae[1]														
Mediomastus sp.														
Spiochaetopterus sp.														
Cossura longocirrata												348.0	391.4	130.5
Magelona rosea														
Clymenella sp.[1]								261.0						
Clymenella torquata					174.0			391.4	1565.8	1043.9	1826.8	348.0	130.5	261.0
Clymenella zonalis														
Maldanidae[1]			130.5						1043.9					
Sabaco elongatus														
Ophelia sp.														
Opheliidae[1]														
Leitoscoloplos sp.		521.9		391.4							261.0			
Orbinia sp.														
Orbiniidae[1]	1043.9													
Scoloplos sp.														
Aricidea sp.			130.5						521.9	130.5				
Paraonidae		1304.8		130.5	695.9			1043.9	5219.3	4566.9	9394.7	4175.4	1174.3	130.5
Polygordius sp.	1043.9	3653.5	261.0	130.5		391.4			521.9					
Sabellaria vulgaris														
Scalibregma inflatum														
Travisia carnea														
Polychaeta[1]					174.0		130.5							
Sipuncula														
Sipuncula														
Total Organism Density*	249483	17224	5741	3001	23487	2088	2479	45017	66807	23095	52976	52889	15919	23095
Taxa Richness*	10	18	15	11	21	9	12	18	21	23	18	20	19	25
Pielou's Evenness*	0.59	0.32	0.79	0.92	0.66	0.86	0.95	0.52	0.59	0.67	0.67	0.51	0.79	0.55
Shannon Diversity*	1.15	0.63	1.65	2.21	2.01	1.90	2.36	1.50	1.78	2.11	1.94	1.53	2.31	1.76

Sample ID	522LA22-GB001-1	522LA22-GB004-1	522LA22-GB006-1	522LA22-GB007-1	522LA22-GB009-1	522LA22-GB010-1	522LA22-GB012-1	522LA22-GB016-1	522LA22-GB017-1	522LA22-GB018-1	522LA22-GB019-1	522LA22-GB020-1	522LA22-GB021-1	522LA22-GB022-1
Location Category	Lease Area													
Area of Sample (cm^2)	9.58	76.64	76.64	76.64	57.48	76.64	76.64	76.64	19.16	76.64	38.32	28.74	76.64	76.64
Organisms/m^2														

*The raw dataset is presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
	Organisms/m^2																										
Ascidiacea																											
Perophora viridis																											
Molgulidae																											
Cnidaria																											
Actiniaria[3]																							130.5	261.0			
Cerianthidae																											
Crustacea																											
Ampelisca sp.		130.5		3262.1	652.4																		521.9				5567.3
Byblis serrata				130.5	130.5	3914.5	1304.8									261.0											
Ampithoidae																											
Aoridae[1]																											
Grandidierella japonica																											
Microdeutopus sp.																											
Batea sp.																											
Bathyporeia sp.																											
Caprellidae																											
Casco bigelowi																											
Corophium sp.																											
Leptocheirus sp.																											348.0
Dexaminidae																											
Acanthohaustorius sp.																											
Parahaustorius sp.																											
Protohaustorius sp.	521.9																										
Pseudohaustorius sp.																						130.5					
Erichthonius sp.																											
Idunella sp.																											
Lysianassidae																											
Melita sp.																											
Synchelidium sp.						261.0																					
Photis sp.																											
Harpinia sp.																											
Phoxocephalus sp.																							1304.8				348.0
Rhepoxynius epistomus	130.5																					130.5					
Orchomenella sp.																											
Unciola sp.																							521.9			261.0	1391.8
Amphipoda[1]			261.0																					130.5	261.0		348.0
Diastylis sp.							261.0								261.0					391.4			261.0				348.0
Leptostylis sp.																											
Oxyurostylis sp.																											
Eudorella sp.								521.9	1141.7																		
Campylaspis sp.																											
Gilvossius setimanus																											
Crangon septemspinosa																											

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522NMA22-GB049A-1	522NMA22-GB051A-1	522NMA22-GB052A-1	522NMA22-GB055A-2	522NMA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
	Organisms/m^2																										
Crustacea cont.																											
Pagurus sp.																											
Pinnixinae																											
Upogebia affinis																											
Xanthidae																											
Ancinus sp.																											
Ptilanthura tenuis																											
Chiridotea sp.											261.0																
Politolana sp.																											
Edotia montosa							261.0															130.5					
Tanaidacea																											
Echinodermata																											
Echinarachnius parma																					261.0						
Amphioplus abditus																											
Mollusca																											
Solenidae				130.5																							
Anadara transversa																											
Parvicardium pinnulatum																											
Macoma sp.									326.2																		
Tellininae		130.5		521.9	391.4	782.9	261.0		163.1											1957.2		652.4		261.0			
Astarte castanea							521.9																				
Astarte undata																											
Crassinella lunulata																											
Lucinoma sp.																											
Thyasira sp.								261.0																			
Caryocorbula contracta																											
Crenella sp.																											
Mytilus edulis																											
Yoldia sp.									978.6	261.0															130.5		
Pectinidae																											
Petrasma borealis																											
Spisula solidissima																	261.0										
Lyonsia sp.																											
Pandora sp.																											
Periploma papyratium								521.9																			
Bivalvia[1]					130.5	521.9	521.9	521.9	2446.5		261.0		652.4							782.9				391.4			
Chaetoderma sp.																											
Cephalaspidea				130.5																							
Crepidula fornicata											261.0																
Lacuna sp.																											
Naticidae																											
Skeneopsis planorbis																											
Astyris lunata																											348.0
Columbellidae[3]																											
Ilyanassa trivittata											261.0								261.0			130.5				261.0	348.0

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
	Organisms/m^2																										
Mollusca cont.																											
Nucula proxima		5088.8	261.0		130.5		28184	6524.1	23487	2087.7						261.0				34056		261.0	11743	1565.8	4697.4		21573
Pyramidellidae																											
Turbonilla sp. [2]																											
Nemertea																											
Nemertea	130.5	130.5							163.1				652.4		261.0				261.0	782.9		130.5	261.0	130.5	261.0		
Oligochaeta																											
Enchytraeidae						9394.7						261.0		261.0		261.0										261.0	
Naididae w/ hair chaetae														261.0	521.9			521.9	1043.9							261.0	
Naididae w/out hair chaetae	130.5		2870.6		130.5	261.0		521.9			261.0	782.9	2609.7		261.0	1043.9	261.0	130.5	261.0	3131.6		391.4	2348.7		130.5	782.9	
Polychaeta																											
Dorvilleidae			521.9									261.0															
Paucibranchia bellii														261.0													
Lumbrinerides acuta												1304.8	2609.7	782.9	1043.9									261.0			
Ninoe nigripes									163.1																		348.0
Scoletoma sp.								521.9	163.1									130.5	261.0	391.4		130.5	782.9	130.5	391.4		695.9
Drilonereis sp.		261.0						521.9										130.5									348.0
Onuphis sp.		130.5																									
Scoloplos sp.																											
Glycera sp.	130.5	130.5									1304.8			261.0							130.5						
Goniadella gracilis												261.0	1957.2	782.9	3392.5	261.0	1565.8	3523.0	1565.8		261.0	130.5					
Hesionidae																											
Nephtys sp.		521.9	261.0			782.9	261.0	521.9	326.2	261.0							261.0				130.5	130.5		261.0	782.9	261.0	348.0
Nereididae																											
Eteone sp.																											
Phyllodoce arenae				130.5																							
Phyllodocidae[1]												261.0															
Phyllodocidae Type 1[3]																											
Polynoidae																									130.5		348.0
Pisioninae											2609.7	261.0															
Sigalion arenicola																											
Sthenelais boa																											
Sthenelais limicola																					130.5	130.5					
Exogone sp. [3]						2870.6			163.1	261.0			3914.5			261.0		521.9									
Syllidae			1043.9								1826.8	521.9	7829.0		782.9											261.0	348.0
Syllis sp. [3]																											
Sabellidae																											
Polydora sp.																											
Prionospio sp.		391.4		1435.3																							
Scolelepis sp.																											
Spio sp.																								130.5			
Spionidae[1]																								130.5			
Spiophanes bombyx	261.0	130.5		261.0																							

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522MA22-GB049A-1	522MA22-GB051A-1	522MA22-GB052A-1	522MA22-GB055A-2	522MA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
	Organisms/m^2																										
Polychaeta cont.																											
Spiophanes wigleyi																											
Streblospio benedicti																											
Ampharetidae	130.5																	130.5					391.4	913.4		695.9
Cirratulidae		391.4	521.9	521.9				261.0	978.6			261.0	1957.2	521.9								6002.2	1043.9		521.9	2435.7
Brada sp.																								130.5			
Flabelligeridae[1]																											
Pherusa sp.																							261.0	391.4			
Pectinaria gouldii																											
Terebellidae			521.9		130.5																					261.0	
Terebellides stroemii[3]																											
Amastigos caperatus	521.9	6654.6		261.0	2087.7															782.9						3392.5	
Capitellidae[1]																											
Mediomastus sp.																										1043.9	
Spiochaetopterus sp.																											
Cossura longocirrata																											
Magelona rosea	391.4	261.0																									
Clymenella sp.[1]																											
Clymenella torquata																							261.0				
Clymenella zonalis																										261.0	
Maldanidae[1]							261.0																				
Sabaco elongatus																											
Ophelia sp.															261.0												
Opheliidae[1]																											
Leitoscoloplos sp.	391.4																			782.9		130.5					
Orbinia sp.	261.0														261.0												
Orbiniidae[1]																											
Scoloplos sp.				130.5	130.5				326.2																		
Aricidea sp.				261.0									652.4	261.0	521.9			130.5	261.0	391.4			261.0				695.9
Paraonidae						261.0		521.9	326.2																130.5		348.0
Polygordius sp.			5741.2	130.5					326.2		3131.6		8481.4	7829.0	7046.1	261.0	1826.8	1565.8	7829.0	782.9	130.5	521.9	1043.9				695.9
Sabellaria vulgaris																											
Scalibregma inflatum																											
Travisia carnea	130.5				130.5						261.0							130.5									
Polychaeta[1]			261.0					261.0																			
Sipuncula																											
Sipuncula																			261.0			130.5					
Total Organism Density*	3132	14353	11743	7307	3914	18529	31055	10700	29032	2871	10178	3914	30663	11222	14614	2610	4175	6916	12004	43451	1044	3262	25053	4828	8351	7568	37579
Taxa Richness*	12	13	8	13	9	8	7	10	14	4	9	8	9	9	11	7	5	10	9	10	6	15	11	12	12	11	19
Pielou's Evenness*	0.59	0.32	0.79	0.72	0.70	0.68	0.23	0.66	0.35	0.64	0.80	0.89	0.87	0.55	0.68	0.90	0.78	0.66	0.57	0.41	0.97	0.92	0.67	0.84	0.65	0.78	0.57
Shannon Diversity*	1.15	0.63	1.65	1.85	1.54	1.41	0.45	1.51	0.93	0.89	1.75	1.86	1.90	1.20	1.63	1.75	1.25	1.52	1.26	0.94	1.73	2.49	1.62	2.08	1.62	1.87	1.67

Sample ID	522MA22-GB001-1	522MA22-GB003-3	522MA22-GB007-1	522MA22-GB009-1	522MA22-GB011-1	522MA22-GB013-1	522MA22-GB015-1	522MA22-GB017-1	522MA22-GB019-4	522MA22-GB021-1	522MA22-GB023-1	522MA22-GB027-1	522MA22-GB029-4	522MA22-GB031-2	522MA22-GB033-1	522MA22-GB035-2	522MA22-GB037-1	522MA22-GB039-4	522MA22-GB041-1	522MA22-GB043-4	522MA22-GB045-4	522MA22-GB047-4	522NMA22-GB049A-1	522NMA22-GB051A-1	522NMA22-GB052A-1	522NMA22-GB055A-2	522NMA22-GB057A-1
Location Category	MA OECC																										
Area of Sample (cm^2)	76.64	76.64	38.32	76.64	76.64	38.32	38.32	38.32	61.31	38.32	38.32	38.32	15.33	38.32	38.32	38.32	38.32	76.64	38.32	25.55	76.64	76.64	38.32	76.64	76.64	38.32	28.74
Organisms/m^2																											

*The raw dataset is presented above. Taxonomic ambiguity in the raw dataset was resolved using the RPMC-G method described in Cuffney et al. (2007) prior to calculation of metrics. The RPMC-G method was applied to the raw dataset as detailed below.

[1]Parent taxa with lower abundances than their taxonomic children were removed from the dataset.

[2]Child taxa with lower abundance than their parent taxa were merged with the parent taxa (*Turbonilla* sp. merged with Pyramidellidae)

[3]Parent taxa with taxonomic children present in the dataset, but which were unique taxa (not any of the identified children taxa), were retained for analyses.

**Calculation of Pielou's evenness not possible, one taxa present in sample. Note that this outlier sample (522CT22-GB048-1) was excluded from univariate and multivariate analyses.

Appendix M: Statistical Analysis Results

Univariate Statistical Analysis Results

Project Area

Taxa Richness

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Lease Area	14	240	17.14286	25.05495
CT OECC	64	634	9.90625	22.30853
MA OECC	27	271	10.03704	10.26781

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	628.93287	2	314.4664	16.05292	8.69E-07	3.085465
Within Groups	1998.11475	102	19.58936			
Total	2627.04762	104				

Post Hoc Tukey HSD

Pairwise Comparisons		$HSD_{.05} = 3.0278$ $HSD_{.01} = 3.7935$	$Q_{.05} = 3.3636$ $Q_{.01} = 4.2143$
T_1:T_2	$M_1 = 17.14$ $M_2 = 9.91$	7.24	$Q = 8.04$ ($p = .00000$)
T_1:T_3	$M_1 = 17.14$ $M_3 = 10.04$	7.11	$Q = 7.89$ ($p = .00000$)
T_2:T_3	$M_2 = 9.91$ $M_3 = 10.04$	0.13	$Q = 0.15$ ($p = .99421$)

Log-transformed Total Density

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Lease Area	14	59.80886	4.272061	0.363817

CT OECC	64	234.1669	3.658858	0.240095
MA OECC	27	106.7757	3.954657	0.169285

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	5.01133	2	2.505665	10.53626	6.92E-05	3.085465
Within Groups	24.25698	102	0.237814			
Total	29.26831	104				

Post Hoc Tukey HSD

Pairwise Comparisons		$HSD_{.05} = 0.3336$ $HSD_{.01} = 0.4180$	$Q_{.05} = 3.3636$ $Q_{.01} = 4.2143$
T_1:T_2	$M_1 = 4.27$ $M_2 = 3.66$	0.61	$Q = 6.18$ ($p = .00009$)
T_1:T_3	$M_1 = 4.27$ $M_3 = 3.95$	0.32	$Q = 3.20$ ($p = .06576$)
T_2:T_3	$M_2 = 3.66$ $M_3 = 3.95$	0.30	$Q = 2.98$ ($p = .09304$)

Peilou's Evenness

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Lease Area	14	9.6036	0.685971	0.042569
CT OECC	64	51.7498	0.808591	0.033349
MA OECC	27	18.6876	0.692133	0.032038

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0.351636	2	0.175818	5.142408	0.007451	3.085465
Within Groups	3.487362	102	0.03419			
Total	3.838998	104				

Post Hoc Tukey HSD

Pairwise Comparisons		$HSD_{.05} = 0.1265$ $HSD_{.01} = 0.1585$	$Q_{.05} = 3.3636$ $Q_{.01} = 4.2143$
$T_1:T_2$	$M_1 = 0.69$ $M_2 = 0.81$	0.12	$Q = 3.26$ ($p = .05956$)
$T_1:T_3$	$M_1 = 0.69$ $M_3 = 0.69$	0.01	$Q = 0.16$ ($p = .99277$)
$T_2:T_3$	$M_2 = 0.81$ $M_3 = 0.69$	0.12	$Q = 3.10$ ($p = .07762$)

Shannon Diversity

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	14	26.6733	1.905236	0.263953
Column 2	64	111.9143	1.748661	0.259969
Column 3	27	41.966	1.554296	0.194702

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1.274282	2	0.637141	2.612951	0.078221	3.085465
Within Groups	24.87165	102	0.24384			
Total	26.14593	104				

Sample Depth (shallow:<40m, deep:>40m)

Taxa Richness

t-Test: Two-Sample Assuming Equal Variances

	Shallow	*Deep*
Mean	9.80597	12.84211
Variance	12.76481	42.19061
Observations	67	38
Pooled Variance	23.33525	
Hypothesized Mean Difference	0	

df	103
t Stat	-3.09492
P(T<=t) one-tail	0.001268
t Critical one-tail	1.659782
P(T<=t) two-tail	0.002535
t Critical two-tail	1.983264

Log-transformed Total Density

t-Test: Two-Sample Assuming Equal Variances

	Shallow	*Deep*
Mean	3.737747	3.955854
Variance	0.262901	0.290901
Observations	67	38
Pooled Variance	0.27296	
Hypothesized Mean Difference	0	
df	103	
t Stat	-2.05568	
P(T<=t) one-tail	0.021171	
t Critical one-tail	1.659782	
P(T<=t) two-tail	0.042343	
t Critical two-tail	1.983264	

Peilou's Evenness

t-Test: Two-Sample Assuming Equal Variances

	Shallow	*Deep*
Mean	0.78429	0.723516
Variance	0.03777	0.033962
Observations	67	38
Pooled Variance	0.036402	
Hypothesized Mean Difference	0	
df	103	
t Stat	1.568505	
P(T<=t) one-tail	0.059915	
t Critical one-tail	1.659782	
P(T<=t) two-tail	0.11983	
t Critical two-tail	1.983264	

Shannon Diversity

t-Test: Two-Sample Assuming Equal Variances

	Shallow	*Deep*
Mean	1.725578	1.708945
Variance	0.276043	0.214064
Observations	67	38
Pooled Variance	0.253779	
Hypothesized Mean Difference	0	
df	103	
t Stat	0.162583	
P(T<=t) one-tail	0.435583	
t Critical one-tail	1.659782	
P(T<=t) two-tail	0.871166	
t Critical two-tail	1.983264	

Nearshore Offshore (state/federal boundary)

Taxa Richness

t-Test: Two-Sample Assuming Equal Variances

	Nearshore	*Offshore*
Mean	9.9	11.81818
Variance	16.37755	32.00337
Observations	50	55
Pooled Variance	24.56973	
Hypothesized Mean Difference	0	
df	103	
t Stat	-1.98044	
P(T<=t) one-tail	0.025161	
t Critical one-tail	1.659782	
P(T<=t) two-tail	0.050321	
t Critical two-tail	1.983264	

Log-transformed Total Density

t-Test: Two-Sample Assuming Equal Variances

	Nearshore	*Offshore*
Mean	3.567682	4.043043

Variance	0.211315	0.24066
Observations	50	55
Pooled Variance	0.2267	
Hypothesized Mean Difference	0	
df	103	
t Stat	-5.1094	
P(T<=t) one-tail	7.46E-07	
t Critical one-tail	1.659782	
P(T<=t) two-tail	1.49E-06	
t Critical two-tail	1.983264	

Peilou's Evenness

t-Test: Two-Sample Assuming Equal Variances

	Nearshore	*Offshore*
Mean	0.844416	0.68764
Variance	0.020226	0.040818
Observations	50	55
Pooled Variance	0.031022	
Hypothesized Mean Difference	0	
df	103	
t Stat	4.555291	
P(T<=t) one-tail	7.2E-06	
t Critical one-tail	1.659782	
P(T<=t) two-tail	1.44E-05	
t Critical two-tail	1.983264	

Shannon Diversity

t-Test: Two-Sample Assuming Equal Variances

	Nearshore	*Offshore*
Mean	1.83059	1.61862
Variance	0.214072	0.268142
Observations	50	55
Pooled Variance	0.242419	
Hypothesized Mean Difference	0	
df	103	
t Stat	2.203245	

P(T<=t) one-tail	0.014903
t Critical one-tail	1.659782
P(T<=t) two-tail	0.029805
t Critical two-tail	1.983264

CMECS Substrate Group

Taxa Richness

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Muddy Sand	25	282	11.28	28.96
Sand	56	625	11.16071429	28.10097403
Gravelly	19	190	10	18.55555556
Gravel Mixes	4	38	9.5	7

104

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	30.62758242	3	10.20919414	0.393327917	0.758067	2.695534
Within Groups	2595.593571	100	25.95593571			
Total	2626.221154	103				

Log-transformed Total Density

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Muddy Sand	25	138.2755	5.531021	0.44879
Sand	56	307.7558	5.495639	0.673014
Gravelly	19	101.8221	5.35906	0.461572
Gravel Mixes	4	20.92169	5.230422	0.806604

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*

Between Groups	0.593233	3	0.197744	0.337939	0.79793	2.695534
Within Groups	58.51482	100	0.585148			
Total	59.10805	103				

Peilou's Evenness

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Muddy Sand	25	17.8608	0.714432	0.036349356
Sand	56	42.3608	0.756442857	0.041481021
Gravelly	19	15.631	0.822684211	0.020066503
Gravel Mixes	4	3.2096	0.8024	0.047390847

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0.134462844	3	0.044820948	1.2255502	0.304462	2.695534
Within Groups	3.657210297	100	0.036572103			
Total	3.791673141	103				

Shannon Diversity

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Muddy Sand	25	41.3774	1.655096	0.296481186
Sand	56	96.0851	1.715805357	0.26782633
Gravelly	19	33.8481	1.781478947	0.184194503
Gravel Mixes	4	6.989	1.74725	0.172738917

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0.177843282	3	0.059281094	0.230847949	0.87471	2.695534
Within Groups	25.6797144	100	0.256797144			

Total	25.85755768	103

Multivariate Statistical Analysis Results

Project Area

ANOSIM
Analysis of Similarities

One-Way Analysis

Resemblance worksheet
Name: BrayCurtis
Data type: Similarity
Selection: All

Factor Values
Factor: Project Area
CT OECC
Lease Area
MA OECC

Factor Groups

Sample	Project Area
522CT22-GB002-1	CT OECC
522CT22-GB004-1	CT OECC
522CT22-GB006-1	CT OECC
522CT22-GB008-1	CT OECC
522CT22-GB010-1	CT OECC
522CT22-GB012-1	CT OECC
522CT22-GB014-1	CT OECC
522CT22-GB016-1	CT OECC
522CT22-GB018-1	CT OECC
522CT22-GB020-1	CT OECC
522CT22-GB022-1	CT OECC
522CT22-GB024-1	CT OECC
522CT22-GB026-3	CT OECC
522CT22-GB028-1	CT OECC
522CT22-GB030-1	CT OECC
522CT22-GB032-1	CT OECC
522CT22-GB034-1	CT OECC
522CT22-GB036-1	CT OECC
522CT22-GB038-1	CT OECC
522CT22-GB040-1	CT OECC

522CT22-GB042-1	CT OECC
522CT22-GB044-2	CT OECC
522CT22-GB046-1	CT OECC
522CT22-GB050-1	CT OECC
522CT22-GB052-2	CT OECC
522CT22-GB054-1	CT OECC
522CT22-GB056-1	CT OECC
522CT22-GB058-1	CT OECC
522CT22-GB060-1	CT OECC
522CT22-GB062-1	CT OECC
522CT22-GB064-1	CT OECC
522CT22-GB066-1	CT OECC
522CT22-GB067-1	CT OECC
522CT22-GB068-1	CT OECC
522CT22-GB072-2	CT OECC
522CT22-GB072-3A-1	CT OECC
522CT22-GB074-2	CT OECC
522CT22-GB074-3A-1	CT OECC
522CT22-GB076-2	CT OECC
522CT22-GB078-1	CT OECC
522CT22-GB080-2	CT OECC
522CT22-GB080-3A-1	CT OECC
522CT22-GB082-2	CT OECC
522CT22-GB082-3B-1	CT OECC
522CT22-GB084-1	CT OECC
522CT22-GB090A-1	CT OECC
522CT22-GB091A-1	CT OECC
522CT22-GB092A-1	CT OECC
522CT22-GB095A-1	CT OECC
522CT22-GB096A-2	CT OECC
522CT22-GB098-3B-1	CT OECC
522CT22-GB100-1	CT OECC
522CT22-GB101-1	CT OECC
522CT22-GB102-1	CT OECC
522CT22-GB103-1	CT OECC
522CT22-GB104-1	CT OECC
522CT22-GB105-1	CT OECC
522CT22-GB106-1	CT OECC
522CT22-GB107-1	CT OECC
522CT22-GB108-1	CT OECC
522CT22-GB109-1	CT OECC
522CT22-GB110-1	CT OECC
522CT22-GB111A-1	CT OECC
522CT22-GB112-1	CT OECC
522LA22-GB001-1	Lease Area
522LA22-GB004-1	Lease Area

522LA22-GB006-1	Lease Area
522LA22-GB007-1	Lease Area
522LA22-GB009-1	Lease Area
522LA22-GB010-1	Lease Area
522LA22-GB012-1	Lease Area
522LA22-GB016-1	Lease Area
522LA22-GB017-1	Lease Area
522LA22-GB018-1	Lease Area
522LA22-GB019-1	Lease Area
522LA22-GB020-1	Lease Area
522LA22-GB021-1	Lease Area
522LA22-GB022-1	Lease Area
522MA22-GB001-1	MA OECC
522MA22-GB003-3	MA OECC
522MA22-GB007-1	MA OECC
522MA22-GB009-1	MA OECC
522MA22-GB011-1	MA OECC
522MA22-GB013-1	MA OECC
522MA22-GB015-1	MA OECC
522MA22-GB017-1	MA OECC
522MA22-GB019-4	MA OECC
522MA22-GB021-1	MA OECC
522MA22-GB023-1	MA OECC
522MA22-GB027-1	MA OECC
522MA22-GB029-4	MA OECC
522MA22-GB031-2	MA OECC
522MA22-GB033-1	MA OECC
522MA22-GB035-2	MA OECC
522MA22-GB037-1	MA OECC
522MA22-GB039-4	MA OECC
522MA22-GB041-1	MA OECC
522MA22-GB043-4	MA OECC
522MA22-GB045-4	MA OECC
522MA22-GB047-4	MA OECC
522MA22-GB049A-1	MA OECC
522MA22-GB051A-1	MA OECC
522MA22-GB052A-1	MA OECC
522MA22-GB055A-2	MA OECC
522MA22-GB057A-1	MA OECC

Global Test
Sample statistic (Global R): -0.018
Significance level of sample statistic: 68%
Number of permutations: 999 (Random sample from a large number)
Number of permuted statistics greater than or equal to Global R: 679

Pairwise Tests

Groups	R Statistic	Significance Level %	Possible Permutations	Actual Permutations	Number >= Observed
CT OECC, Lease Area	-0.096	93.7	Very large	999	936
CT OECC, MA OECC	0.004	42.8	Very large	999	427
Lease Area, MA OECC	0.25	0.2	Very large	999	1

Outputs
Plot: Graph14

Sample Depth (shallow:<40m, deep:>40m)

ANOSIM
Analysis of Similarities

One-Way Analysis

Resemblance worksheet
Name: BrayCurtis
Data type: Similarity
Selection: All

Factor Values
Factor: Depth
Deep
Shallow

Factor Groups

Sample	Depth
522CT22-GB002-1	Deep
522CT22-GB004-1	Deep
522CT22-GB006-1	Deep
522CT22-GB008-1	Deep
522CT22-GB010-1	Deep
522CT22-GB012-1	Deep
522CT22-GB014-1	Deep
522CT22-GB016-1	Deep
522CT22-GB018-1	Deep
522CT22-GB020-1	Deep

522CT22-GB022-1	Deep
522CT22-GB024-1	Deep
522CT22-GB026-3	Deep
522CT22-GB028-1	Deep
522CT22-GB030-1	Deep
522CT22-GB050-1	Deep
522CT22-GB052-2	Deep
522CT22-GB054-1	Deep
522CT22-GB056-1	Deep
522CT22-GB058-1	Deep
522CT22-GB060-1	Deep
522CT22-GB090A-1	Deep
522CT22-GB098-3B-1	Deep
522LA22-GB004-1	Deep
522LA22-GB006-1	Deep
522LA22-GB007-1	Deep
522LA22-GB009-1	Deep
522LA22-GB010-1	Deep
522LA22-GB012-1	Deep
522LA22-GB016-1	Deep
522LA22-GB017-1	Deep
522LA22-GB018-1	Deep
522LA22-GB019-1	Deep
522LA22-GB020-1	Deep
522LA22-GB021-1	Deep
522LA22-GB022-1	Deep
522MA22-GB017-1	Deep
522MA22-GB035-2	Deep
522CT22-GB032-1	Shallow
522CT22-GB034-1	Shallow
522CT22-GB036-1	Shallow
522CT22-GB038-1	Shallow
522CT22-GB040-1	Shallow
522CT22-GB042-1	Shallow
522CT22-GB044-2	Shallow
522CT22-GB046-1	Shallow
522CT22-GB062-1	Shallow
522CT22-GB064-1	Shallow
522CT22-GB066-1	Shallow
522CT22-GB067-1	Shallow
522CT22-GB068-1	Shallow
522CT22-GB072-2	Shallow
522CT22-GB072-3A-1	Shallow
522CT22-GB074-2	Shallow
522CT22-GB074-3A-1	Shallow
522CT22-GB076-2	Shallow

522CT22-GB078-1	Shallow
522CT22-GB080-2	Shallow
522CT22-GB080-3A-1	Shallow
522CT22-GB082-2	Shallow
522CT22-GB082-3B-1	Shallow
522CT22-GB084-1	Shallow
522CT22-GB091A-1	Shallow
522CT22-GB092A-1	Shallow
522CT22-GB095A-1	Shallow
522CT22-GB096A-2	Shallow
522CT22-GB100-1	Shallow
522CT22-GB101-1	Shallow
522CT22-GB102-1	Shallow
522CT22-GB103-1	Shallow
522CT22-GB104-1	Shallow
522CT22-GB105-1	Shallow
522CT22-GB106-1	Shallow
522CT22-GB107-1	Shallow
522CT22-GB108-1	Shallow
522CT22-GB109-1	Shallow
522CT22-GB110-1	Shallow
522CT22-GB111A-1	Shallow
522CT22-GB112-1	Shallow
522LA22-GB001-1	Shallow
522MA22-GB001-1	Shallow
522MA22-GB003-3	Shallow
522MA22-GB007-1	Shallow
522MA22-GB009-1	Shallow
522MA22-GB011-1	Shallow
522MA22-GB013-1	Shallow
522MA22-GB015-1	Shallow
522MA22-GB019-4	Shallow
522MA22-GB021-1	Shallow
522MA22-GB023-1	Shallow
522MA22-GB027-1	Shallow
522MA22-GB029-4	Shallow
522MA22-GB031-2	Shallow
522MA22-GB033-1	Shallow
522MA22-GB037-1	Shallow
522MA22-GB039-4	Shallow
522MA22-GB041-1	Shallow
522MA22-GB043-4	Shallow
522MA22-GB045-4	Shallow
522MA22-GB047-4	Shallow
522MA22-GB049A-1	Shallow
522MA22-GB051A-1	Shallow

522MA22-GB052A-1	Shallow
522MA22-GB055A-2	Shallow
522MA22-GB057A-1	Shallow

Global Test
Sample statistic (Global R): 0.129
Significance level of sample statistic: 0.1%
Number of permutations: 999 (Random sample from a large number)
Number of permuted statistics greater than or equal to Global R: 0

Outputs
Plot: Graph14

SIMPER
Similarity Percentages - species contributions

One-Way Analysis

Data worksheet
Name: FourthRootTransform
Data type: Abundance
Sample selection: All
Variable selection: All

Parameters
Resemblance: S17 Bray Curtis similarity
Cut off for low contributions: 90.00%

Factor Groups

Sample	Depth
522CT22-GB002-1	Deep
522CT22-GB004-1	Deep
522CT22-GB006-1	Deep
522CT22-GB008-1	Deep
522CT22-GB010-1	Deep
522CT22-GB012-1	Deep
522CT22-GB014-1	Deep
522CT22-GB016-1	Deep
522CT22-GB018-1	Deep
522CT22-GB020-1	Deep

522CT22-GB022-1	Deep
522CT22-GB024-1	Deep
522CT22-GB026-3	Deep
522CT22-GB028-1	Deep
522CT22-GB030-1	Deep
522CT22-GB050-1	Deep
522CT22-GB052-2	Deep
522CT22-GB054-1	Deep
522CT22-GB056-1	Deep
522CT22-GB058-1	Deep
522CT22-GB060-1	Deep
522CT22-GB090A-1	Deep
522CT22-GB098-3B-1	Deep
522LA22-GB004-1	Deep
522LA22-GB006-1	Deep
522LA22-GB007-1	Deep
522LA22-GB009-1	Deep
522LA22-GB010-1	Deep
522LA22-GB012-1	Deep
522LA22-GB016-1	Deep
522LA22-GB017-1	Deep
522LA22-GB018-1	Deep
522LA22-GB019-1	Deep
522LA22-GB020-1	Deep
522LA22-GB021-1	Deep
522LA22-GB022-1	Deep
522MA22-GB017-1	Deep
522MA22-GB035-2	Deep
522CT22-GB032-1	Shallow
522CT22-GB034-1	Shallow
522CT22-GB036-1	Shallow
522CT22-GB038-1	Shallow
522CT22-GB040-1	Shallow
522CT22-GB042-1	Shallow
522CT22-GB044-2	Shallow
522CT22-GB046-1	Shallow
522CT22-GB062-1	Shallow
522CT22-GB064-1	Shallow
522CT22-GB066-1	Shallow
522CT22-GB067-1	Shallow
522CT22-GB068-1	Shallow
522CT22-GB072-2	Shallow
522CT22-GB072-3A-1	Shallow
522CT22-GB074-2	Shallow
522CT22-GB074-3A-1	Shallow
522CT22-GB076-2	Shallow

522CT22-GB078-1	Shallow
522CT22-GB080-2	Shallow
522CT22-GB080-3A-1	Shallow
522CT22-GB082-2	Shallow
522CT22-GB082-3B-1	Shallow
522CT22-GB084-1	Shallow
522CT22-GB091A-1	Shallow
522CT22-GB092A-1	Shallow
522CT22-GB095A-1	Shallow
522CT22-GB096A-2	Shallow
522CT22-GB100-1	Shallow
522CT22-GB101-1	Shallow
522CT22-GB102-1	Shallow
522CT22-GB103-1	Shallow
522CT22-GB104-1	Shallow
522CT22-GB105-1	Shallow
522CT22-GB106-1	Shallow
522CT22-GB107-1	Shallow
522CT22-GB108-1	Shallow
522CT22-GB109-1	Shallow
522CT22-GB110-1	Shallow
522CT22-GB111A-1	Shallow
522CT22-GB112-1	Shallow
522LA22-GB001-1	Shallow
522MA22-GB001-1	Shallow
522MA22-GB003-3	Shallow
522MA22-GB007-1	Shallow
522MA22-GB009-1	Shallow
522MA22-GB011-1	Shallow
522MA22-GB013-1	Shallow
522MA22-GB015-1	Shallow
522MA22-GB019-4	Shallow
522MA22-GB021-1	Shallow
522MA22-GB023-1	Shallow
522MA22-GB027-1	Shallow
522MA22-GB029-4	Shallow
522MA22-GB031-2	Shallow
522MA22-GB033-1	Shallow
522MA22-GB037-1	Shallow
522MA22-GB039-4	Shallow
522MA22-GB041-1	Shallow
522MA22-GB043-4	Shallow
522MA22-GB045-4	Shallow
522MA22-GB047-4	Shallow
522MA22-GB049A-1	Shallow
522MA22-GB051A-1	Shallow

522MA22-GB052A-1	Shallow
522MA22-GB055A-2	Shallow
522MA22-GB057A-1	Shallow

Group Deep
Average similarity: 20.78

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Ampelisca sp.	5.35	3.86	0.72	18.59	18.59
Eudorella sp.	2.34	1.55	0.55	7.46	26.05
Nephtys sp.	2.27	1.49	0.55	7.16	33.20
Naididae w/out hair chaetae	2.20	1.16	0.44	5.56	38.77
Diastylis sp.	2.03	1.15	0.49	5.51	44.28
Paraonidae	2.59	1.12	0.46	5.40	49.68
Polygordius sp.	1.86	1.10	0.38	5.30	54.98
Nucula sp.	2.28	0.96	0.40	4.62	59.60
Nemertea	1.59	0.94	0.39	4.54	64.14
Erichthonius sp.	2.69	0.80	0.34	3.86	68.00
Unciola sp.	1.84	0.75	0.40	3.60	71.60
Amphioplus abditus	1.54	0.70	0.24	3.37	74.97
Scoletoma sp.	1.52	0.54	0.33	2.62	77.59
Drilonereis sp.	1.23	0.46	0.27	2.19	79.79
Ampharetidae	0.92	0.38	0.22	1.85	81.64
Cirratulidae	1.33	0.38	0.25	1.82	83.46
Goniadella gracilis	0.90	0.37	0.17	1.78	85.23
Glycera sp.	0.78	0.28	0.19	1.37	86.60
Clymenella torquata	1.10	0.21	0.23	0.99	87.59
Periploma papyratium	0.98	0.18	0.20	0.87	88.46
Aricidea sp.	0.87	0.18	0.20	0.85	89.31
Thyasira sp.	0.94	0.16	0.20	0.79	90.10

Group Shallow
Average similarity: 16.35

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Naididae w/out hair chaetae	2.51	2.17	0.56	13.28	13.28
Cirratulidae	2.23	1.69	0.47	10.34	23.62
Polygordius sp.	2.46	1.47	0.40	8.99	32.61
Nephtys sp.	1.80	1.46	0.43	8.92	41.53
Ampelisca sp.	1.86	1.08	0.34	6.60	48.13
Scoletoma sp.	1.64	0.93	0.36	5.66	53.79
Aricidea sp.	1.40	0.72	0.30	4.43	58.22
Ilyanassa trivittata	1.09	0.71	0.29	4.32	62.53
Tellininae	1.30	0.70	0.30	4.28	66.81
Nucula sp.	2.04	0.58	0.22	3.53	70.33

Nemertea	1.15	0.53	0.28	3.27	73.60
Syllidae	1.27	0.48	0.25	2.94	76.54
Glycera sp.	0.75	0.33	0.18	2.03	78.58
Terebellidae	0.86	0.28	0.18	1.74	80.31
Clymenella zonalis	0.73	0.24	0.15	1.44	81.75
Clymenella torquata	0.81	0.23	0.17	1.39	83.14
Mediomastus sp.	0.76	0.22	0.17	1.36	84.50
Goniadella gracilis	0.84	0.22	0.14	1.34	85.84
Scalibregma inflatum	0.73	0.21	0.17	1.31	87.15
Prionospio sp.	0.63	0.17	0.14	1.03	88.18
Enchytraeidae	0.73	0.14	0.12	0.86	89.04
Ampharetidae	0.59	0.13	0.14	0.81	89.85
Rhepoxynius epistomus	0.52	0.13	0.11	0.80	90.65

Groups Deep & Shallow
Average dissimilarity = 85.96

Species	Group Deep Av.Abund	Group Shallow Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Ampelisca sp.	5.35	1.86	4.76	1.16	5.54	5.54
Nucula sp.	2.28	2.04	3.09	0.79	3.59	9.13
Polygordius sp.	1.86	2.46	3.04	0.88	3.54	12.67
Naididae w/out hair chaetae	2.20	2.51	2.85	1.00	3.31	15.98
Cirratulidae	1.33	2.23	2.54	0.89	2.96	18.94
Nephtys sp.	2.27	1.80	2.41	0.96	2.80	21.75
Eudorella sp.	2.34	0.24	2.23	0.90	2.59	24.34
Paraonidae	2.59	0.45	2.22	0.85	2.58	26.92
Erichthonius sp.	2.69	0.11	2.13	0.70	2.48	29.40
Scoletoma sp.	1.52	1.64	2.07	0.87	2.40	31.81
Nemertea	1.59	1.15	1.95	0.87	2.26	34.07
Diastylis sp.	2.03	0.45	1.93	0.87	2.24	36.31
Amphioplus abditus	1.54	0.05	1.79	0.56	2.08	38.39
Goniadella gracilis	0.90	0.84	1.77	0.58	2.05	40.45
Aricidea sp.	0.87	1.40	1.72	0.71	2.00	42.45
Unciola sp.	1.84	0.27	1.58	0.79	1.83	44.28
Syllidae	0.50	1.27	1.45	0.62	1.69	45.97
Glycera sp.	0.78	0.75	1.38	0.63	1.61	47.58
Tellininae	0.18	1.30	1.37	0.61	1.60	49.18
Clymenella torquata	1.10	0.81	1.34	0.66	1.55	50.73
Ampharetidae	0.92	0.59	1.33	0.63	1.55	52.28
Drilonereis sp.	1.23	0.23	1.25	0.62	1.46	53.74
Ilyanassa trivittata	0.09	1.09	1.18	0.59	1.38	55.11
Enchytraeidae	0.48	0.73	1.13	0.47	1.32	56.43
Lumbrinerides acuta	0.60	0.48	1.13	0.43	1.31	57.74
Terebellidae	0.36	0.86	1.08	0.49	1.25	58.99
Byblis serrata	0.53	0.47	1.07	0.45	1.24	60.24

Rhepoxynius epistomus	0.52	0.52	1.02	0.48	1.19	61.43
Crassinella lunulata	0.84	0.16	1.02	0.41	1.19	62.62
Polynoidae	0.68	0.51	0.96	0.57	1.11	63.73
Exogone sp.	0.28	0.64	0.92	0.45	1.07	64.80
Leptocheirus sp.	0.97	0.29	0.87	0.56	1.01	65.81
Scalibregma inflatum	0.09	0.73	0.85	0.43	0.99	66.80
Mediomastus sp.	0.18	0.76	0.85	0.49	0.99	67.79
Crepidula fornicata	0.56	0.42	0.85	0.39	0.99	68.77
Clymenella zonalis	0.13	0.73	0.84	0.43	0.97	69.75
Ninoe nigripes	1.05	0.23	0.83	0.56	0.96	70.71
Periploma papyratium	0.98	0.06	0.78	0.50	0.91	71.61
Leitoscoloplos sp.	0.35	0.57	0.77	0.46	0.90	72.51
Prionospio sp.	0.13	0.63	0.70	0.42	0.82	73.32
Phoxocephalus sp.	0.83	0.15	0.68	0.49	0.79	74.11
Thyasira sp.	0.94	0.00	0.67	0.50	0.78	74.89
Spiophanes bombyx	0.53	0.34	0.67	0.48	0.78	75.67
Pagurus sp.	0.24	0.51	0.67	0.41	0.78	76.45
Cossura longocirrata	0.71	0.00	0.67	0.39	0.77	77.23
Naididae w/ hair chaetae	0.19	0.51	0.61	0.40	0.71	77.94
Echinarachnius parma	0.30	0.25	0.59	0.36	0.69	78.63
Sipuncula	0.43	0.11	0.58	0.35	0.68	79.31
Amastigos caperatus	0.00	0.56	0.54	0.29	0.63	79.93
Polydora sp.	0.24	0.30	0.51	0.34	0.60	80.53
Dorvilleidae	0.27	0.25	0.48	0.33	0.56	81.09
Terebellides stroemii	0.72	0.00	0.48	0.38	0.56	81.65
Tanaidacea	0.33	0.13	0.46	0.33	0.53	82.18
Caprellidae	0.31	0.12	0.43	0.32	0.50	82.68
Astarte castanea	0.12	0.25	0.42	0.28	0.49	83.17
Corophium sp.	0.62	0.00	0.42	0.38	0.48	83.65
Pisioninae	0.26	0.17	0.41	0.28	0.48	84.13
Yoldia sp.	0.30	0.19	0.41	0.33	0.47	84.60
Sigalion arenicola	0.19	0.23	0.38	0.33	0.44	85.05
Pherusa sp.	0.41	0.13	0.38	0.36	0.44	85.49
Xanthidae	0.19	0.16	0.38	0.30	0.44	85.92
Sthenelais limicola	0.30	0.10	0.36	0.32	0.42	86.35
Columbellidae	0.19	0.19	0.36	0.31	0.42	86.76
Parvicardium pinnulatum	0.42	0.00	0.35	0.30	0.41	87.17
Protohaustorius sp.	0.00	0.30	0.32	0.23	0.38	87.55
Syllis sp.	0.19	0.05	0.31	0.25	0.36	87.91
Sabaco elongatus	0.00	0.28	0.30	0.26	0.35	88.26
Gilvossius setimanus	0.18	0.05	0.29	0.25	0.34	88.60
Nereididae	0.00	0.29	0.29	0.27	0.34	88.94
Scoloplos sp.	0.00	0.27	0.29	0.26	0.34	89.28
Pyramidellidae	0.00	0.28	0.29	0.24	0.33	89.61
Mytilus edulis	0.00	0.29	0.28	0.23	0.33	89.94
Lucinoma sp.	0.43	0.00	0.28	0.34	0.33	90.27

Nearshore Offshore (state/federal boundary)

ANOSIM
Analysis of Similarities

One-Way Analysis

Resemblance worksheet
Name: BrayCurtis
Data type: Similarity
Selection: All

Factor Values
Factor: Nearshore Offshore
Offshore
Nearshore

Factor Groups

Sample	Nearshore Offshore
522CT22-GB002-1	Offshore
522CT22-GB004-1	Offshore
522CT22-GB006-1	Offshore
522CT22-GB008-1	Offshore
522CT22-GB010-1	Offshore
522CT22-GB012-1	Offshore
522CT22-GB014-1	Offshore
522CT22-GB016-1	Offshore
522CT22-GB018-1	Offshore
522CT22-GB020-1	Offshore
522CT22-GB022-1	Offshore
522CT22-GB024-1	Offshore
522CT22-GB026-3	Offshore
522CT22-GB028-1	Offshore
522CT22-GB030-1	Offshore
522CT22-GB032-1	Offshore
522CT22-GB090A-1	Offshore
522CT22-GB091A-1	Offshore
522CT22-GB092A-1	Offshore

522LA22-GB001-1	Offshore
522LA22-GB004-1	Offshore
522LA22-GB006-1	Offshore
522LA22-GB007-1	Offshore
522LA22-GB009-1	Offshore
522LA22-GB010-1	Offshore
522LA22-GB012-1	Offshore
522LA22-GB016-1	Offshore
522LA22-GB017-1	Offshore
522LA22-GB018-1	Offshore
522LA22-GB019-1	Offshore
522LA22-GB020-1	Offshore
522LA22-GB021-1	Offshore
522LA22-GB022-1	Offshore
522MA22-GB011-1	Offshore
522MA22-GB013-1	Offshore
522MA22-GB015-1	Offshore
522MA22-GB017-1	Offshore
522MA22-GB019-4	Offshore
522MA22-GB021-1	Offshore
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522MA22-GB027-1	Offshore
522MA22-GB029-4	Offshore
522MA22-GB031-2	Offshore
522MA22-GB033-1	Offshore
522MA22-GB035-2	Offshore
522MA22-GB037-1	Offshore
522MA22-GB039-4	Offshore
522MA22-GB041-1	Offshore
522MA22-GB043-4	Offshore
522MA22-GB045-4	Offshore
522MA22-GB047-4	Offshore
522MA22-GB049A-1	Offshore
522MA22-GB051A-1	Offshore
522MA22-GB052A-1	Offshore
522MA22-GB057A-1	Offshore
522CT22-GB034-1	Nearshore
522CT22-GB036-1	Nearshore
522CT22-GB038-1	Nearshore
522CT22-GB040-1	Nearshore
522CT22-GB042-1	Nearshore
522CT22-GB044-2	Nearshore
522CT22-GB046-1	Nearshore
522CT22-GB050-1	Nearshore
522CT22-GB052-2	Nearshore
522CT22-GB054-1	Nearshore

522CT22-GB056-1	Nearshore
522CT22-GB058-1	Nearshore
522CT22-GB060-1	Nearshore
522CT22-GB062-1	Nearshore
522CT22-GB064-1	Nearshore
522CT22-GB066-1	Nearshore
522CT22-GB067-1	Nearshore
522CT22-GB068-1	Nearshore
522CT22-GB072-2	Nearshore
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522CT22-GB076-2	Nearshore
522CT22-GB078-1	Nearshore
522CT22-GB080-2	Nearshore
522CT22-GB080-3A-1	Nearshore
522CT22-GB082-2	Nearshore
522CT22-GB082-3B-1	Nearshore
522CT22-GB084-1	Nearshore
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522CT22-GB096A-2	Nearshore
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522CT22-GB105-1	Nearshore
522CT22-GB106-1	Nearshore
522CT22-GB107-1	Nearshore
522CT22-GB108-1	Nearshore
522CT22-GB109-1	Nearshore
522CT22-GB110-1	Nearshore
522CT22-GB111A-1	Nearshore
522CT22-GB112-1	Nearshore
522MA22-GB001-1	Nearshore
522MA22-GB003-3	Nearshore
522MA22-GB007-1	Nearshore
522MA22-GB009-1	Nearshore
522MA22-GB055A-2	Nearshore

Global Test
Sample statistic (Global R): 0.25
Significance level of sample statistic: 0.1%
Number of permutations: 999 (Random sample from a large number)

Number of permuted statistics greater than or equal to Global R: 0

Outputs
Plot: Graph14

SIMPER
Similarity Percentages - species contributions

One-Way Analysis

Data worksheet
Name: FourthRootTransform
Data type: Abundance
Sample selection: All
Variable selection: All

Parameters
Resemblance: S17 Bray Curtis similarity
Cut off for low contributions: 90.00%

Factor Groups

Sample	Nearshore Offshore
522CT22-GB002-1	Offshore
522CT22-GB004-1	Offshore
522CT22-GB006-1	Offshore
522CT22-GB008-1	Offshore
522CT22-GB010-1	Offshore
522CT22-GB012-1	Offshore
522CT22-GB014-1	Offshore
522CT22-GB016-1	Offshore
522CT22-GB018-1	Offshore
522CT22-GB020-1	Offshore
522CT22-GB022-1	Offshore
522CT22-GB024-1	Offshore
522CT22-GB026-3	Offshore
522CT22-GB028-1	Offshore
522CT22-GB030-1	Offshore
522CT22-GB032-1	Offshore
522CT22-GB090A-1	Offshore
522CT22-GB091A-1	Offshore
522CT22-GB092A-1	Offshore

522LA22-GB001-1	Offshore
522LA22-GB004-1	Offshore
522LA22-GB006-1	Offshore
522LA22-GB007-1	Offshore
522LA22-GB009-1	Offshore
522LA22-GB010-1	Offshore
522LA22-GB012-1	Offshore
522LA22-GB016-1	Offshore
522LA22-GB017-1	Offshore
522LA22-GB018-1	Offshore
522LA22-GB019-1	Offshore
522LA22-GB020-1	Offshore
522LA22-GB021-1	Offshore
522LA22-GB022-1	Offshore
522MA22-GB011-1	Offshore
522MA22-GB013-1	Offshore
522MA22-GB015-1	Offshore
522MA22-GB017-1	Offshore
522MA22-GB019-4	Offshore
522MA22-GB021-1	Offshore
522MA22-GB023-1	Offshore
522MA22-GB027-1	Offshore
522MA22-GB029-4	Offshore
522MA22-GB031-2	Offshore
522MA22-GB033-1	Offshore
522MA22-GB035-2	Offshore
522MA22-GB037-1	Offshore
522MA22-GB039-4	Offshore
522MA22-GB041-1	Offshore
522MA22-GB043-4	Offshore
522MA22-GB045-4	Offshore
522MA22-GB047-4	Offshore
522MA22-GB049A-1	Offshore
522MA22-GB051A-1	Offshore
522MA22-GB052A-1	Offshore
522MA22-GB057A-1	Offshore
522CT22-GB034-1	Nearshore
522CT22-GB036-1	Nearshore
522CT22-GB038-1	Nearshore
522CT22-GB040-1	Nearshore
522CT22-GB042-1	Nearshore
522CT22-GB044-2	Nearshore
522CT22-GB046-1	Nearshore
522CT22-GB050-1	Nearshore
522CT22-GB052-2	Nearshore
522CT22-GB054-1	Nearshore

522CT22-GB056-1	Nearshore
522CT22-GB058-1	Nearshore
522CT22-GB060-1	Nearshore
522CT22-GB062-1	Nearshore
522CT22-GB064-1	Nearshore
522CT22-GB066-1	Nearshore
522CT22-GB067-1	Nearshore
522CT22-GB068-1	Nearshore
522CT22-GB072-2	Nearshore
522CT22-GB072-3A-1	Nearshore
522CT22-GB074-2	Nearshore
522CT22-GB074-3A-1	Nearshore
522CT22-GB076-2	Nearshore
522CT22-GB078-1	Nearshore
522CT22-GB080-2	Nearshore
522CT22-GB080-3A-1	Nearshore
522CT22-GB082-2	Nearshore
522CT22-GB082-3B-1	Nearshore
522CT22-GB084-1	Nearshore
522CT22-GB095A-1	Nearshore
522CT22-GB096A-2	Nearshore
522CT22-GB098-3B-1	Nearshore
522CT22-GB100-1	Nearshore
522CT22-GB101-1	Nearshore
522CT22-GB102-1	Nearshore
522CT22-GB103-1	Nearshore
522CT22-GB104-1	Nearshore
522CT22-GB105-1	Nearshore
522CT22-GB106-1	Nearshore
522CT22-GB107-1	Nearshore
522CT22-GB108-1	Nearshore
522CT22-GB109-1	Nearshore
522CT22-GB110-1	Nearshore
522CT22-GB111A-1	Nearshore
522CT22-GB112-1	Nearshore
522MA22-GB001-1	Nearshore
522MA22-GB003-3	Nearshore
522MA22-GB007-1	Nearshore
522MA22-GB009-1	Nearshore
522MA22-GB055A-2	Nearshore

Group Offshore
Average similarity: 21.99

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Ampelisca sp.	4.22	2.51	0.56	11.43	11.43

Polygordius sp.	3.19	2.44	0.55	11.09	22.52
Nephtys sp.	2.45	2.08	0.61	9.47	31.99
Naididae w/out hair chaetae	2.56	1.86	0.56	8.48	40.47
Nucula sp.	3.61	1.84	0.47	8.38	48.85
Nemertea	1.82	1.17	0.46	5.32	54.17
Diastylis sp.	1.96	1.03	0.45	4.66	58.83
Paraonidae	2.25	0.99	0.43	4.50	63.33
Scoletoma sp.	1.87	0.97	0.43	4.40	67.72
Goniadella gracilis	1.58	0.93	0.29	4.21	71.93
Eudorella sp.	1.85	0.91	0.40	4.12	76.05
Cirratulidae	1.57	0.57	0.28	2.60	78.65
Erichthonius sp.	1.86	0.38	0.23	1.73	80.38
Amphioplus abditus	1.07	0.33	0.16	1.51	81.89
Lumbrinerides acuta	1.00	0.32	0.17	1.47	83.35
Drilonereis sp.	0.99	0.30	0.22	1.36	84.72
Aricidea sp.	1.02	0.29	0.23	1.33	86.05
Glycera sp.	0.83	0.28	0.19	1.26	87.31
Unciola sp.	1.16	0.26	0.23	1.17	88.48
Exogone sp.	0.76	0.22	0.15	0.99	89.47
Tellininae	0.72	0.17	0.15	0.76	90.23

Group Nearshore
Average similarity: 15.32

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cirratulidae	2.28	1.93	0.51	12.57	12.57
Naididae w/out hair chaetae	2.21	1.65	0.46	10.74	23.32
Ampelisca sp.	1.92	1.27	0.35	8.32	31.63
Nephtys sp.	1.44	0.90	0.34	5.89	37.52
Ilyanassa trivittata	1.14	0.87	0.31	5.67	43.19
Aricidea sp.	1.42	0.73	0.29	4.79	47.99
Scoletoma sp.	1.29	0.59	0.27	3.83	51.82
Mediomastus sp.	1.15	0.53	0.27	3.43	55.25
Tellininae	1.08	0.52	0.25	3.38	58.64
Polygordius sp.	1.19	0.49	0.25	3.22	61.85
Clymenella zonalis	1.08	0.48	0.23	3.15	65.00
Terebellidae	1.28	0.47	0.25	3.09	68.09
Syllidae	1.17	0.44	0.25	2.85	70.93
Scalibregma inflatum	0.97	0.43	0.23	2.83	73.77
Clymenella torquata	1.07	0.41	0.23	2.69	76.46
Glycera sp.	0.68	0.38	0.18	2.45	78.91
Prionospio sp.	0.85	0.30	0.19	1.98	80.89
Nemertea	0.75	0.28	0.19	1.85	82.74
Ampharetidae	0.77	0.27	0.19	1.77	84.51
Pagurus sp.	0.86	0.26	0.19	1.69	86.20
Rhepoxynius epistomus	0.69	0.23	0.14	1.47	87.67

Polynoidae	0.68	0.20	0.17	1.33	89.00
Crassinella lunulata	0.85	0.17	0.13	1.14	90.13

Groups Offshore & Nearshore
Average dissimilarity = 87.24

Species	Group Offshore Av.Abund	Group Nearshore Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Ampelisca sp.	4.22	1.92	4.22	1.05	4.84	4.84
Nucula sp.	3.61	0.49	3.60	0.77	4.13	8.97
Polygordius sp.	3.19	1.19	3.58	0.88	4.11	13.08
Naididae w/out hair chaetae	2.56	2.21	3.00	1.04	3.44	16.52
Cirratulidae	1.57	2.28	2.72	0.96	3.11	19.64
Nephtys sp.	2.45	1.44	2.60	0.99	2.98	22.61
Scoletoma sp.	1.87	1.29	2.21	0.90	2.53	25.14
Goniadella gracilis	1.58	0.07	2.04	0.60	2.34	27.48
Nemertea	1.82	0.75	2.02	0.88	2.31	29.79
Paraonidae	2.25	0.09	1.98	0.77	2.27	32.06
Aricidea sp.	1.02	1.42	1.90	0.75	2.18	34.24
Diastylis sp.	1.96	0.00	1.79	0.78	2.06	36.30
Eudorella sp.	1.85	0.07	1.77	0.72	2.03	38.33
Syllidae	0.84	1.17	1.66	0.65	1.90	40.23
Tellininae	0.72	1.08	1.57	0.66	1.80	42.03
Erichthonius sp.	1.86	0.15	1.57	0.56	1.80	43.83
Glycera sp.	0.83	0.68	1.43	0.63	1.64	45.47
Ilyanassa trivittata	0.35	1.14	1.41	0.68	1.61	47.09
Clymenella torquata	0.77	1.07	1.39	0.66	1.59	48.68
Amphioplus abditus	1.07	0.07	1.32	0.45	1.51	50.19
Terebellidae	0.13	1.28	1.28	0.57	1.47	51.66
Enchytraeidae	0.68	0.59	1.24	0.47	1.43	53.09
Ampharetidae	0.65	0.77	1.24	0.62	1.42	54.50
Lumbrinerides acuta	1.00	0.00	1.21	0.44	1.38	55.88
Unciola sp.	1.16	0.49	1.20	0.63	1.38	57.26
Mediomastus sp.	0.00	1.15	1.10	0.58	1.26	58.52
Clymenella zonalis	0.00	1.08	1.10	0.52	1.26	59.78
Exogone sp.	0.76	0.24	1.08	0.46	1.24	61.01
Rhepoxynius epistomus	0.36	0.69	1.08	0.49	1.23	62.25
Byblis serrata	0.69	0.28	1.06	0.45	1.22	63.47
Scalibregma inflatum	0.06	0.97	1.05	0.53	1.20	64.67
Drilonereis sp.	0.99	0.16	1.03	0.54	1.18	65.85
Polynoidae	0.48	0.68	0.96	0.56	1.10	66.96
Prionospio sp.	0.09	0.85	0.90	0.49	1.03	67.99
Leitoscoloplos sp.	0.40	0.59	0.85	0.49	0.98	68.97
Crepidula fornicata	0.15	0.82	0.85	0.40	0.97	69.94
Crassinella lunulata	0.00	0.85	0.84	0.38	0.96	70.90
Pagurus sp.	0.00	0.86	0.81	0.47	0.93	71.83

Leptocheirus sp.	0.75	0.30	0.78	0.51	0.89	72.72
Naididae w/ hair chaetae	0.48	0.30	0.74	0.42	0.84	73.56
Ninoe nigripes	0.87	0.15	0.71	0.50	0.82	74.38
Amastigos caperatus	0.22	0.51	0.71	0.33	0.81	75.19
Spiophanes bombyx	0.36	0.46	0.66	0.47	0.76	75.95
Echinarachnius parma	0.39	0.14	0.62	0.35	0.72	76.67
Periploma papyratium	0.67	0.08	0.60	0.41	0.68	77.35
Polydora sp.	0.08	0.49	0.57	0.37	0.66	78.01
Phoxocephalus sp.	0.76	0.00	0.57	0.42	0.66	78.67
Sipuncula	0.43	0.00	0.51	0.32	0.58	79.25
Dorvilleidae	0.22	0.30	0.50	0.33	0.57	79.82
Astarte castanea	0.24	0.16	0.47	0.30	0.54	80.36
Thyasira sp.	0.65	0.00	0.47	0.40	0.54	80.90
Cossura longocirrata	0.49	0.00	0.47	0.32	0.54	81.45
Yoldia sp.	0.45	0.00	0.45	0.31	0.51	81.96
Protohaustorius sp.	0.00	0.40	0.43	0.28	0.50	82.46
Tanaidacea	0.06	0.36	0.42	0.31	0.48	82.94
Pisioninae	0.28	0.11	0.42	0.26	0.48	83.42
Sigalion arenicola	0.28	0.15	0.42	0.33	0.48	83.90
Sabaco elongatus	0.00	0.37	0.40	0.32	0.46	84.35
Nereididae	0.00	0.39	0.39	0.32	0.45	84.80
Pyramidellidae	0.00	0.38	0.38	0.28	0.44	85.24
Scoloplos sp.	0.14	0.20	0.38	0.30	0.43	85.67
Mytilus edulis	0.13	0.24	0.38	0.27	0.43	86.10
Caprellidae	0.22	0.16	0.37	0.29	0.43	86.53
Travisia carnea	0.26	0.07	0.37	0.30	0.42	86.95
Columbellidae	0.00	0.40	0.37	0.32	0.42	87.37
Xanthidae	0.00	0.36	0.36	0.32	0.41	87.79
Pherusa sp.	0.44	0.00	0.36	0.33	0.41	88.20
Sthenelais limicola	0.33	0.00	0.36	0.29	0.41	88.61
Terebellides stroemii	0.50	0.00	0.34	0.31	0.39	89.00
Magelona rosea	0.00	0.30	0.30	0.28	0.35	89.34
Actiniaria	0.22	0.07	0.30	0.27	0.34	89.69
Lyonsia sp.	0.07	0.23	0.30	0.27	0.34	90.03

CMECS Substrate Group

ANOSIM

Analysis of Similarities

One-Way Analysis

Resemblance worksheet
Name: BrayCurtis
Data type: Similarity
Selection: All

Factor Values
Factor: CMECS Substrate Group
muddy sand
sand
gravelly
gravel mixes
sandy mud

Factor Groups

Sample	CMECS Substrate Group
522CT22-GB002-1	muddy sand
522CT22-GB004-1	muddy sand
522CT22-GB006-1	muddy sand
522CT22-GB008-1	muddy sand
522CT22-GB010-1	muddy sand
522CT22-GB012-1	muddy sand
522CT22-GB014-1	muddy sand
522CT22-GB016-1	muddy sand
522CT22-GB066-1	muddy sand
522CT22-GB067-1	muddy sand
522CT22-GB068-1	muddy sand
522CT22-GB078-1	muddy sand
522CT22-GB082-3B-1	muddy sand
522CT22-GB084-1	muddy sand
522CT22-GB101-1	muddy sand
522CT22-GB102-1	muddy sand
522CT22-GB105-1	muddy sand
522CT22-GB106-1	muddy sand
522CT22-GB108-1	muddy sand
522LA22-GB016-1	muddy sand
522LA22-GB020-1	muddy sand
522LA22-GB021-1	muddy sand
522LA22-GB022-1	muddy sand
522MA22-GB017-1	muddy sand
522MA22-GB021-1	muddy sand
522CT22-GB018-1	sand
522CT22-GB020-1	sand
522CT22-GB022-1	sand
522CT22-GB024-1	sand

522CT22-GB026-3	sand
522CT22-GB030-1	sand
522CT22-GB038-1	sand
522CT22-GB042-1	sand
522CT22-GB046-1	sand
522CT22-GB050-1	sand
522CT22-GB064-1	sand
522CT22-GB072-2	sand
522CT22-GB072-3A-1	sand
522CT22-GB074-2	sand
522CT22-GB074-3A-1	sand
522CT22-GB076-2	sand
522CT22-GB080-2	sand
522CT22-GB080-3A-1	sand
522CT22-GB082-2	sand
522CT22-GB091A-1	sand
522CT22-GB092A-1	sand
522CT22-GB095A-1	sand
522CT22-GB096A-2	sand
522CT22-GB104-1	sand
522CT22-GB107-1	sand
522LA22-GB001-1	sand
522LA22-GB004-1	sand
522LA22-GB006-1	sand
522LA22-GB007-1	sand
522LA22-GB009-1	sand
522LA22-GB010-1	sand
522LA22-GB012-1	sand
522LA22-GB017-1	sand
522LA22-GB018-1	sand
522LA22-GB019-1	sand
522MA22-GB001-1	sand
522MA22-GB003-3	sand
522MA22-GB009-1	sand
522MA22-GB011-1	sand
522MA22-GB013-1	sand
522MA22-GB015-1	sand
522MA22-GB019-4	sand
522MA22-GB029-4	sand
522MA22-GB033-1	sand
522MA22-GB035-2	sand
522MA22-GB037-1	sand
522MA22-GB039-4	sand
522MA22-GB041-1	sand
522MA22-GB043-4	sand
522MA22-GB045-4	sand

522MA22-GB047-4	sand
522MA22-GB049A-1	sand
522MA22-GB051A-1	sand
522MA22-GB052A-1	sand
522MA22-GB055A-2	sand
522MA22-GB057A-1	sand
522CT22-GB028-1	gravelly
522CT22-GB032-1	gravelly
522CT22-GB034-1	gravelly
522CT22-GB036-1	gravelly
522CT22-GB040-1	gravelly
522CT22-GB044-2	gravelly
522CT22-GB058-1	gravelly
522CT22-GB060-1	gravelly
522CT22-GB062-1	gravelly
522CT22-GB090A-1	gravelly
522CT22-GB098-3B-1	gravelly
522CT22-GB103-1	gravelly
522CT22-GB109-1	gravelly
522CT22-GB110-1	gravelly
522CT22-GB111A-1	gravelly
522CT22-GB112-1	gravelly
522MA22-GB007-1	gravelly
522MA22-GB027-1	gravelly
522MA22-GB031-2	gravelly
522CT22-GB052-2	gravel mixes
522CT22-GB054-1	gravel mixes
522CT22-GB056-1	gravel mixes
522MA22-GB023-1	gravel mixes
522CT22-GB100-1	sandy mud

Global Test

Sample statistic (Global R): 0.269
Significance level of sample statistic: 0.1%
Number of permutations: 999 (Random sample from a large number)
Number of permuted statistics greater than or equal to Global R: 0

Pairwise Tests

Groups	R Statistic	Significance Level %	Possible Permutations	Actual Permutations	Number >= Observed
muddy sand, sand	0.177	0.1	Very large	999	0
muddy sand, gravelly	0.437	0.1	Very large	999	0
muddy sand, gravel mixes	0.643	0.1	23751	999	0
muddy sand, sandy mud	0.317	15.4	26	26	4
sand, gravelly	0.238	0.1	Very large	999	0

sand, gravel mixes	0.423	1	487635	999	9
sand, sandy mud	0.36	10.5	57	57	6
gravelly, gravel mixes	0.08	28.6	8855	999	285
gravelly, sandy mud	0.513	15	20	20	3
gravel mixes, sandy mud	1	20	5	5	1

Outputs
Plot: Graph14

SIMPER
Similarity Percentages - species contributions

One-Way Analysis

Data worksheet
Name: FourthRootTransform
Data type: Abundance
Sample selection: All
Variable selection: All

Parameters
Resemblance: S17 Bray Curtis similarity
Cut off for low contributions: 90.00%

Factor Groups

Sample	CMECS Substrate Group
522CT22-GB002-1	muddy sand
522CT22-GB004-1	muddy sand
522CT22-GB006-1	muddy sand
522CT22-GB008-1	muddy sand
522CT22-GB010-1	muddy sand
522CT22-GB012-1	muddy sand
522CT22-GB014-1	muddy sand
522CT22-GB016-1	muddy sand
522CT22-GB066-1	muddy sand
522CT22-GB067-1	muddy sand
522CT22-GB068-1	muddy sand
522CT22-GB078-1	muddy sand
522CT22-GB082-3B-1	muddy sand
522CT22-GB084-1	muddy sand
522CT22-GB101-1	muddy sand

522CT22-GB102-1	muddy sand
522CT22-GB105-1	muddy sand
522CT22-GB106-1	muddy sand
522CT22-GB108-1	muddy sand
522LA22-GB016-1	muddy sand
522LA22-GB020-1	muddy sand
522LA22-GB021-1	muddy sand
522LA22-GB022-1	muddy sand
522MA22-GB017-1	muddy sand
522MA22-GB021-1	muddy sand
522CT22-GB018-1	sand
522CT22-GB020-1	sand
522CT22-GB022-1	sand
522CT22-GB024-1	sand
522CT22-GB026-3	sand
522CT22-GB030-1	sand
522CT22-GB038-1	sand
522CT22-GB042-1	sand
522CT22-GB046-1	sand
522CT22-GB050-1	sand
522CT22-GB064-1	sand
522CT22-GB072-2	sand
522CT22-GB072-3A-1	sand
522CT22-GB074-2	sand
522CT22-GB074-3A-1	sand
522CT22-GB076-2	sand
522CT22-GB080-2	sand
522CT22-GB080-3A-1	sand
522CT22-GB082-2	sand
522CT22-GB091A-1	sand
522CT22-GB092A-1	sand
522CT22-GB095A-1	sand
522CT22-GB096A-2	sand
522CT22-GB104-1	sand
522CT22-GB107-1	sand
522LA22-GB001-1	sand
522LA22-GB004-1	sand
522LA22-GB006-1	sand
522LA22-GB007-1	sand
522LA22-GB009-1	sand
522LA22-GB010-1	sand
522LA22-GB012-1	sand
522LA22-GB017-1	sand
522LA22-GB018-1	sand
522LA22-GB019-1	sand
522MA22-GB001-1	sand

522MA22-GB003-3	sand
522MA22-GB009-1	sand
522MA22-GB011-1	sand
522MA22-GB013-1	sand
522MA22-GB015-1	sand
522MA22-GB019-4	sand
522MA22-GB029-4	sand
522MA22-GB033-1	sand
522MA22-GB035-2	sand
522MA22-GB037-1	sand
522MA22-GB039-4	sand
522MA22-GB041-1	sand
522MA22-GB043-4	sand
522MA22-GB045-4	sand
522MA22-GB047-4	sand
522MA22-GB049A-1	sand
522MA22-GB051A-1	sand
522MA22-GB052A-1	sand
522MA22-GB055A-2	sand
522MA22-GB057A-1	sand
522CT22-GB028-1	gravelly
522CT22-GB032-1	gravelly
522CT22-GB034-1	gravelly
522CT22-GB036-1	gravelly
522CT22-GB040-1	gravelly
522CT22-GB044-2	gravelly
522CT22-GB058-1	gravelly
522CT22-GB060-1	gravelly
522CT22-GB062-1	gravelly
522CT22-GB090A-1	gravelly
522CT22-GB098-3B-1	gravelly
522CT22-GB103-1	gravelly
522CT22-GB109-1	gravelly
522CT22-GB110-1	gravelly
522CT22-GB111A-1	gravelly
522CT22-GB112-1	gravelly
522MA22-GB007-1	gravelly
522MA22-GB027-1	gravelly
522MA22-GB031-2	gravelly
522CT22-GB052-2	gravel mixes
522CT22-GB054-1	gravel mixes
522CT22-GB056-1	gravel mixes
522MA22-GB023-1	gravel mixes
522CT22-GB100-1	sandy mud

Group muddy sand

Average similarity: 21.14

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Ampelisca sp.	5.81	5.77	0.87	27.31	27.31
Nephtys sp.	2.30	2.22	0.60	10.51	37.82
Amphioplus abditus	2.35	1.64	0.39	7.76	45.58
Scoletoma sp.	2.13	1.49	0.49	7.06	52.64
Cirratulidae	1.80	1.14	0.40	5.41	58.05
Eudorella sp.	1.89	1.13	0.39	5.34	63.39
Nucula sp.	1.99	0.72	0.29	3.42	66.81
Clymenella zonalis	1.28	0.70	0.26	3.32	70.13
Nemertea	1.36	0.66	0.31	3.14	73.27
Clymenella torquata	1.60	0.64	0.36	3.04	76.31
Drilonereis sp.	1.35	0.58	0.31	2.74	79.06
Naididae w/out hair chaetae	1.32	0.50	0.26	2.37	81.43
Paraonidae	1.56	0.45	0.26	2.11	83.54
Erichthonius sp.	1.76	0.38	0.22	1.80	85.34
Mediomastus sp.	0.90	0.38	0.22	1.78	87.12
Polynoidae	0.84	0.26	0.22	1.25	88.37
Leptocheirus sp.	1.08	0.26	0.22	1.24	89.61
Diastylis sp.	0.94	0.26	0.22	1.22	90.83

Group sand
Average similarity: 19.47

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Naididae w/out hair chaetae	2.94	2.66	0.69	13.66	13.66
Polygordius sp.	3.14	2.64	0.62	13.55	27.21
Nephtys sp.	2.38	2.03	0.58	10.40	37.61
Ampelisca sp.	3.13	1.91	0.51	9.82	47.43
Nucula sp.	2.89	1.08	0.34	5.54	52.97
Aricidea sp.	1.67	0.85	0.35	4.37	57.34
Nemertea	1.51	0.83	0.39	4.25	61.59
Tellininae	1.32	0.70	0.30	3.59	65.17
Scoletoma sp.	1.52	0.68	0.34	3.49	68.67
Cirratulidae	1.57	0.62	0.30	3.17	71.84
Diastylis sp.	1.50	0.56	0.31	2.86	74.70
Paraonidae	1.53	0.44	0.28	2.25	76.95
Goniadella gracilis	1.09	0.43	0.19	2.23	79.18
Ilyanassa trivittata	0.87	0.35	0.22	1.82	81.00
Byblis serrata	0.87	0.32	0.18	1.65	82.64
Glycera sp.	0.78	0.30	0.20	1.54	84.18
Rhepoxynius epistomus	0.76	0.28	0.17	1.44	85.63
Eudorella sp.	1.03	0.24	0.22	1.26	86.89
Ampharetidae	0.70	0.19	0.17	0.96	87.85

Erichthonius sp.	1.17	0.15	0.15	0.78	88.63
Exogone sp.	0.68	0.15	0.13	0.78	89.41
Leitoscoloplos sp.	0.67	0.15	0.15	0.76	90.17

Group gravelly
Average similarity: 18.05

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cirratulidae	2.97	3.59	0.76	19.86	19.86
Naididae w/out hair chaetae	2.61	1.91	0.50	10.60	30.47
Syllidae	2.45	1.76	0.50	9.74	40.21
Polygordius sp.	2.28	1.27	0.36	7.04	47.25
Terebellidae	2.41	1.23	0.42	6.79	54.04
Enchytraeidae	1.86	0.98	0.36	5.45	59.49
Aricidea sp.	1.34	0.72	0.29	3.98	63.47
Glycera sp.	1.02	0.70	0.23	3.88	67.35
Dorvilleidae	1.43	0.66	0.30	3.63	70.99
Lumbrinerides acuta	1.54	0.65	0.24	3.62	74.60
Scoletoma sp.	1.51	0.58	0.29	3.22	77.82
Goniadella gracilis	1.38	0.57	0.25	3.16	80.98
Pagurus sp.	1.31	0.44	0.24	2.43	83.41
Unciola sp.	1.15	0.40	0.24	2.23	85.64
Polynoidae	1.10	0.40	0.24	2.22	87.86
Nemertea	0.83	0.31	0.19	1.71	89.57
Nephtys sp.	0.84	0.22	0.18	1.20	90.77

Group gravel mixes
Average similarity: 21.87

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Ampharetidae	3.20	5.14	0.87	23.50	23.50
Crassinella lunulata	3.54	4.78	0.90	21.86	45.36
Crepidula fornicata	3.80	4.08	0.90	18.66	64.02
Syllidae	3.48	3.63	0.91	16.59	80.61
Glycera sp.	2.35	1.65	0.41	7.56	88.17
Xanthidae	1.85	1.36	0.41	6.22	94.39

Group sandy mud
Less than 2 samples in group

Groups muddy sand & sand
Average dissimilarity = 84.23

	Group muddy sand	Group sand

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Ampelisca sp.	5.81	3.13	5.18	1.21	6.15	6.15
Nucula sp.	1.99	2.89	3.47	0.80	4.12	10.26
Polygordius sp.	0.17	3.14	3.20	0.87	3.79	14.06
Naididae w/out hair chaetae	1.32	2.94	2.93	1.05	3.48	17.54
Amphioplus abditus	2.35	0.06	2.56	0.74	3.03	20.57
Nephtys sp.	2.30	2.38	2.55	1.02	3.03	23.60
Cirratulidae	1.80	1.57	2.37	0.90	2.81	26.42
Scoletoma sp.	2.13	1.52	2.36	0.96	2.81	29.22
Eudorella sp.	1.89	1.03	2.17	0.82	2.58	31.80
Paraonidae	1.56	1.53	2.05	0.78	2.43	34.23
Erichthonius sp.	1.76	1.17	2.01	0.68	2.39	36.62
Nemertea	1.36	1.51	1.98	0.88	2.35	38.97
Aricidea sp.	0.17	1.67	1.67	0.67	1.99	40.96
Diastylis sp.	0.94	1.50	1.67	0.77	1.99	42.94
Clymenella torquata	1.60	0.69	1.64	0.75	1.95	44.89
Clymenella zonalis	1.28	0.23	1.58	0.60	1.88	46.78
Tellininae	0.35	1.32	1.55	0.64	1.85	48.62
Drilonereis sp.	1.35	0.51	1.46	0.70	1.73	50.35
Goniadella gracilis	0.00	1.09	1.28	0.46	1.52	51.87
Mediomastus sp.	0.90	0.43	1.25	0.61	1.48	53.36
Ilyanassa trivittata	0.54	0.87	1.23	0.64	1.47	54.82
Exogone sp.	0.46	0.68	1.15	0.50	1.36	56.18
Leptocheirus sp.	1.08	0.46	1.08	0.62	1.29	57.47
Glycera sp.	0.27	0.78	1.01	0.55	1.20	58.67
Prionospio sp.	0.43	0.65	1.01	0.51	1.20	59.87
Byblis serrata	0.00	0.87	1.00	0.44	1.19	61.05
Ampharetidae	0.44	0.70	0.99	0.56	1.18	62.23
Unciola sp.	0.49	0.90	0.95	0.57	1.13	63.36
Scalibregma inflatum	0.48	0.47	0.92	0.48	1.09	64.46
Polynoidae	0.84	0.27	0.92	0.58	1.09	65.54
Rhepoxynius epistomus	0.00	0.76	0.91	0.42	1.08	66.62
Ninoe nigripes	0.72	0.66	0.89	0.58	1.05	67.67
Leitoscoloplos sp.	0.39	0.67	0.88	0.51	1.05	68.72
Cossura longocirrata	0.93	0.07	0.84	0.46	0.99	69.71
Thyasira sp.	0.95	0.22	0.78	0.54	0.93	70.64
Naididae w/ hair chaetae	0.43	0.47	0.78	0.46	0.93	71.57
Syllidae	0.16	0.71	0.77	0.41	0.92	72.49
Sipuncula	0.51	0.20	0.76	0.40	0.90	73.39
Enchytraeidae	0.30	0.43	0.75	0.36	0.89	74.27
Spiophanes bombyx	0.47	0.47	0.74	0.50	0.88	75.16
Periploma papyratium	0.69	0.36	0.73	0.49	0.86	76.02
Sabaco elongatus	0.60	0.07	0.72	0.43	0.85	76.88
Amastigos caperatus	0.00	0.67	0.69	0.32	0.81	77.69
Pyramidellidae	0.62	0.06	0.68	0.38	0.81	78.50
Terebellidae	0.30	0.33	0.62	0.40	0.74	79.24

Echinarachnius parma	0.00	0.51	0.60	0.35	0.72	79.96
Phoxocephalus sp.	0.18	0.67	0.57	0.44	0.68	80.64
Yoldia sp.	0.30	0.31	0.57	0.35	0.67	81.31
Syllis sp.	0.43	0.00	0.55	0.35	0.66	81.97
Terebellides stroemii	0.69	0.18	0.55	0.40	0.65	82.62
Nereididae	0.48	0.06	0.52	0.38	0.62	83.24
Caprellidae	0.32	0.21	0.51	0.36	0.60	83.85
Lumbrinerides acuta	0.00	0.46	0.51	0.30	0.60	84.45
Crepidula fornicata	0.54	0.00	0.49	0.28	0.58	85.03
Polydora sp.	0.35	0.06	0.44	0.30	0.53	85.55
Pherusa sp.	0.34	0.28	0.43	0.38	0.51	86.06
Protohaustorius sp.	0.00	0.36	0.41	0.26	0.49	86.55
Pagurus sp.	0.14	0.27	0.41	0.33	0.48	87.03
Sigalion arenicola	0.27	0.13	0.39	0.33	0.46	87.50
Actiniaria	0.19	0.20	0.38	0.30	0.45	87.94
Scoloplos sp.	0.14	0.20	0.36	0.30	0.43	88.37
Edotia montosa	0.19	0.20	0.34	0.30	0.40	88.77
Corophium sp.	0.16	0.35	0.32	0.34	0.38	89.15
Sthenelais limicola	0.00	0.33	0.32	0.29	0.38	89.53
Lysianassidae	0.27	0.00	0.30	0.25	0.36	89.89
Phyllodoce arenae	0.14	0.18	0.30	0.28	0.36	90.24

Groups muddy sand & gravelly
Average dissimilarity = 90.32

	Group muddy sand	Group gravelly				
Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Ampelisca sp.	5.81	0.22	5.83	1.21	6.46	6.46
Cirratulidae	1.80	2.97	2.98	1.07	3.30	9.76
Naididae w/out hair chaetae	1.32	2.61	2.91	0.96	3.23	12.98
Amphioplus abditus	2.35	0.00	2.63	0.72	2.91	15.89
Scoletoma sp.	2.13	1.51	2.55	0.94	2.82	18.71
Polygordius sp.	0.17	2.28	2.48	0.69	2.75	21.46
Nephtys sp.	2.30	0.84	2.47	0.97	2.73	24.19
Syllidae	0.16	2.45	2.39	0.89	2.64	26.83
Terebellidae	0.30	2.41	2.30	0.81	2.54	29.38
Nucula sp.	1.99	0.42	2.13	0.64	2.36	31.74
Enchytraeidae	0.30	1.86	2.01	0.71	2.23	33.97
Eudorella sp.	1.89	0.00	1.98	0.71	2.20	36.16
Nemertea	1.36	0.83	1.82	0.76	2.01	38.18
Clymenella zonalis	1.28	0.46	1.73	0.63	1.91	40.09
Lumbrinerides acuta	0.00	1.54	1.70	0.55	1.88	41.98
Clymenella torquata	1.60	0.58	1.64	0.76	1.81	43.79
Goniadella gracilis	0.00	1.38	1.52	0.54	1.68	45.47
Polynoidae	0.84	1.10	1.51	0.74	1.67	47.14
Aricidea sp.	0.17	1.34	1.49	0.65	1.65	48.78

Glycera sp.	0.27	1.02	1.49	0.60	1.65	50.43
Paraonidae	1.56	0.20	1.48	0.59	1.63	52.06
Erichthonius sp.	1.76	0.00	1.45	0.52	1.60	53.67
Dorvilleidae	0.00	1.43	1.40	0.64	1.55	55.22
Crepidula fornicata	0.54	1.08	1.35	0.50	1.50	56.72
Unciola sp.	0.49	1.15	1.32	0.65	1.46	58.17
Pagurus sp.	0.14	1.31	1.32	0.60	1.46	59.63
Drilonereis sp.	1.35	0.00	1.30	0.63	1.44	61.07
Crassinella lunulata	0.00	1.28	1.21	0.42	1.34	62.40
Mediomastus sp.	0.90	0.39	1.17	0.61	1.29	63.70
Scalibregma inflatum	0.48	0.71	1.08	0.52	1.19	64.89
Leptocheirus sp.	1.08	0.18	1.03	0.58	1.14	66.03
Ilyanassa trivittata	0.54	0.36	1.01	0.49	1.12	67.15
Ampharetidae	0.44	0.60	0.92	0.54	1.02	68.16
Polydora sp.	0.35	0.70	0.89	0.50	0.99	69.15
Diastylis sp.	0.94	0.00	0.85	0.52	0.94	70.10
Periploma papyratium	0.69	0.22	0.82	0.45	0.91	71.01
Cossura longocirrata	0.93	0.00	0.80	0.44	0.89	71.90
Mytilus edulis	0.19	0.59	0.77	0.38	0.85	72.75
Pisioninae	0.00	0.72	0.73	0.42	0.81	73.56
Nereididae	0.48	0.22	0.72	0.42	0.79	74.35
Exogone sp.	0.46	0.21	0.71	0.39	0.79	75.14
Thyasira sp.	0.95	0.00	0.71	0.49	0.79	75.93
Politolana sp.	0.00	0.64	0.69	0.37	0.77	76.70
Sabaco elongatus	0.60	0.00	0.69	0.41	0.76	77.46
Tellininae	0.35	0.42	0.68	0.43	0.75	78.21
Sigalion arenicola	0.27	0.45	0.67	0.43	0.74	78.95
Sipuncula	0.51	0.00	0.65	0.35	0.72	79.67
Rhepoxynius epistomus	0.00	0.63	0.65	0.40	0.72	80.39
Pyramidellidae	0.62	0.00	0.63	0.35	0.70	81.09
Columbellidae	0.00	0.65	0.60	0.41	0.67	81.76
Leitoscoloplos sp.	0.39	0.22	0.59	0.36	0.65	82.41
Syllis sp.	0.43	0.00	0.58	0.35	0.64	83.05
Naididae w/ hair chaetae	0.43	0.21	0.57	0.42	0.63	83.68
Microdeutopus sp.	0.14	0.36	0.56	0.30	0.62	84.31
Spiophanes bombyx	0.47	0.25	0.56	0.42	0.62	84.93
Ninoe nigripes	0.72	0.00	0.54	0.43	0.59	85.52
Astarte castanea	0.00	0.42	0.53	0.32	0.59	86.11
Prionospio sp.	0.43	0.00	0.50	0.35	0.56	86.66
Lysianassidae	0.27	0.25	0.48	0.34	0.53	87.20
Terebellides stroemii	0.69	0.00	0.47	0.36	0.53	87.72
Tanaidacea	0.00	0.52	0.46	0.33	0.51	88.23
Sabellaria vulgaris	0.00	0.40	0.45	0.33	0.50	88.73
Xanthidae	0.30	0.18	0.45	0.37	0.49	89.22
Scoloplos sp.	0.14	0.18	0.43	0.29	0.48	89.70
Lyonsia sp.	0.16	0.22	0.39	0.30	0.44	90.13

Groups sand & gravelly
Average dissimilarity = 85.96

Species	Group sand Av.Abund	Group gravelly Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Polygordius sp.	3.14	2.28	3.82	0.98	4.44	4.44
Naididae w/out hair chaetae	2.94	2.61	3.31	1.07	3.85	8.30
Cirratulidae	1.57	2.97	3.21	1.13	3.73	12.03
Ampelisca sp.	3.13	0.22	2.96	0.88	3.44	15.47
Nucula sp.	2.89	0.42	2.87	0.66	3.34	18.81
Syllidae	0.71	2.45	2.57	0.92	2.99	21.80
Nephtys sp.	2.38	0.84	2.50	0.92	2.91	24.71
Terebellidae	0.33	2.41	2.35	0.82	2.73	27.44
Goniadella gracilis	1.09	1.38	2.29	0.69	2.66	30.11
Aricidea sp.	1.67	1.34	2.26	0.84	2.63	32.74
Scoletoma sp.	1.52	1.51	2.16	0.85	2.52	35.26
Enchytraeidae	0.43	1.86	2.15	0.69	2.50	37.76
Lumbrinerides acuta	0.46	1.54	1.98	0.62	2.30	40.06
Nemertea	1.51	0.83	1.84	0.81	2.15	42.21
Glycera sp.	0.78	1.02	1.73	0.67	2.01	44.22
Tellininae	1.32	0.42	1.65	0.66	1.92	46.14
Unciola sp.	0.90	1.15	1.49	0.71	1.73	47.87
Dorvilleidae	0.00	1.43	1.41	0.64	1.63	49.50
Pagurus sp.	0.27	1.31	1.40	0.62	1.63	51.14
Rhepoxynius epistomus	0.76	0.63	1.37	0.56	1.59	52.73
Paraonidae	1.53	0.20	1.36	0.63	1.58	54.31
Diastylis sp.	1.50	0.00	1.31	0.62	1.53	55.84
Crassinella lunulata	0.07	1.28	1.28	0.44	1.49	57.33
Ilyanassa trivittata	0.87	0.36	1.27	0.55	1.48	58.81
Polynoidae	0.27	1.10	1.23	0.61	1.43	60.24
Scalibregma inflatum	0.47	0.71	1.18	0.50	1.37	61.61
Byblis serrata	0.87	0.18	1.17	0.47	1.37	62.97
Ampharetidae	0.70	0.60	1.12	0.59	1.31	64.28
Clymenella torquata	0.69	0.58	1.01	0.49	1.18	65.45
Crepidula fornicata	0.00	1.08	0.97	0.41	1.13	66.58
Erichthonius sp.	1.17	0.00	0.91	0.42	1.06	67.64
Exogone sp.	0.68	0.21	0.88	0.43	1.03	68.66
Leitoscoloplos sp.	0.67	0.22	0.86	0.47	1.00	69.66
Eudorella sp.	1.03	0.00	0.84	0.51	0.98	70.65
Astarte castanea	0.24	0.42	0.76	0.39	0.89	71.53
Pisioninae	0.00	0.72	0.74	0.42	0.86	72.39
Amastigos caperatus	0.67	0.00	0.71	0.32	0.83	73.22
Naididae w/ hair chaetae	0.47	0.21	0.70	0.39	0.81	74.03
Polydora sp.	0.06	0.70	0.70	0.42	0.81	74.85
Mediomastus sp.	0.43	0.39	0.70	0.42	0.81	75.66

Politolana sp.	0.00	0.64	0.70	0.37	0.81	76.47
Prionospio sp.	0.65	0.00	0.68	0.38	0.79	77.27
Mytilus edulis	0.06	0.59	0.66	0.35	0.76	78.03
Echinarachnius parma	0.51	0.00	0.63	0.35	0.73	78.76
Clymenella zonalis	0.23	0.46	0.63	0.40	0.73	79.50
Tanaidacea	0.15	0.52	0.62	0.37	0.72	80.21
Spiophanes bombyx	0.47	0.25	0.61	0.43	0.71	80.92
Columbellidae	0.00	0.65	0.60	0.41	0.70	81.62
Sigalion arenicola	0.13	0.45	0.55	0.38	0.64	82.27
Periploma papyratium	0.36	0.22	0.51	0.33	0.60	82.86
Leptocheirus sp.	0.46	0.18	0.51	0.40	0.59	83.46
Phoxocephalus sp.	0.67	0.00	0.49	0.39	0.57	84.02
Ninoe nigripes	0.66	0.00	0.48	0.39	0.56	84.58
Scoloplos sp.	0.20	0.18	0.45	0.31	0.53	85.11
Sabellaria vulgaris	0.00	0.40	0.45	0.33	0.53	85.64
Drilonereis sp.	0.51	0.00	0.45	0.35	0.52	86.16
Protohaustorius sp.	0.36	0.00	0.43	0.26	0.50	86.66
Microdeutopus sp.	0.00	0.36	0.40	0.23	0.46	87.12
Lyonsia sp.	0.13	0.22	0.37	0.28	0.43	87.54
Parahaustorius sp.	0.09	0.21	0.36	0.26	0.42	87.96
Nereididae	0.06	0.22	0.34	0.26	0.40	88.36
Spio sp.	0.06	0.29	0.33	0.26	0.39	88.75
Sthenelais limicola	0.33	0.00	0.33	0.29	0.39	89.14
Ampithoidae	0.00	0.27	0.33	0.23	0.39	89.52
Astyris lunata	0.14	0.25	0.30	0.30	0.35	89.87
Travisia carnea	0.24	0.00	0.28	0.27	0.32	90.20

Groups muddy sand & gravel mixes
Average dissimilarity = 93.96

	Group muddy sand	Group gravel mixes				
Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Ampelisca sp.	5.81	0.00	6.09	1.24	6.49	6.49
Crassinella lunulata	0.00	3.54	4.07	1.52	4.33	10.81
Crepidula fornicata	0.54	3.80	3.89	1.44	4.14	14.95
Cirratulidae	1.80	2.76	3.70	0.92	3.94	18.89
Syllidae	0.16	3.48	3.61	1.33	3.84	22.73
Ampharetidae	0.44	3.20	3.56	1.33	3.79	26.52
Polygordius sp.	0.17	2.87	2.94	0.85	3.13	29.64
Glycera sp.	0.27	2.35	2.86	0.93	3.04	32.69
Amphioplus abditus	2.35	0.00	2.72	0.73	2.89	35.58
Nephtys sp.	2.30	0.00	2.55	1.00	2.71	38.29
Xanthidae	0.30	1.85	2.22	0.90	2.36	40.65
Scoletoma sp.	2.13	0.00	2.21	0.85	2.35	43.00
Eudorella sp.	1.89	0.00	2.05	0.72	2.18	45.18
Nucula sp.	1.99	0.00	1.96	0.58	2.09	47.26

Naididae w/out hair chaetae	1.32	1.00	1.93	0.77	2.06	49.32
Pisioninae	0.00	1.79	1.91	0.55	2.03	51.35
Clymenella torquata	1.60	0.84	1.86	0.87	1.98	53.33
Nemertea	1.36	0.84	1.85	0.81	1.97	55.30
Clymenella zonalis	1.28	0.00	1.60	0.58	1.70	57.00
Mediomastus sp.	0.90	0.84	1.55	0.73	1.65	58.64
Erichthonius sp.	1.76	0.00	1.49	0.53	1.59	60.23
Ilyanassa trivittata	0.54	1.00	1.42	0.68	1.51	61.74
Paraonidae	1.56	0.00	1.41	0.55	1.50	63.24
Polynoidae	0.84	0.84	1.40	0.72	1.49	64.74
Drilonereis sp.	1.35	0.00	1.34	0.63	1.42	66.16
Gilvossius setimanus	0.00	0.84	1.29	0.54	1.38	67.54
Goniadella gracilis	0.00	0.84	1.29	0.54	1.38	68.92
Unciola sp.	0.49	1.00	1.19	0.65	1.26	70.18
Pandora sp.	0.00	1.19	1.10	0.56	1.17	71.35
Chiridotea sp.	0.00	1.00	1.07	0.55	1.14	72.49
Travisia carnea	0.00	1.00	1.07	0.55	1.14	73.63
Aricidea sp.	0.17	1.00	1.01	0.59	1.08	74.70
Tanaidacea	0.00	0.84	0.98	0.55	1.05	75.75
Magelona rosea	0.00	0.84	0.98	0.55	1.05	76.80
Sabellaria vulgaris	0.00	0.84	0.98	0.55	1.05	77.85
Leptocheirus sp.	1.08	0.00	0.93	0.53	0.99	78.84
Anadara transversa	0.00	1.00	0.92	0.56	0.98	79.82
Columbellidae	0.00	1.00	0.92	0.56	0.98	80.80
Diastylis sp.	0.94	0.00	0.88	0.52	0.93	81.73
Cossura longocirrata	0.93	0.00	0.83	0.45	0.88	82.61
Thyasira sp.	0.95	0.00	0.73	0.49	0.78	83.39
Sabaco elongatus	0.60	0.00	0.71	0.41	0.76	84.15
Sipuncula	0.51	0.00	0.67	0.35	0.72	84.87
Pyramidellidae	0.62	0.00	0.65	0.36	0.70	85.56
Exogone sp.	0.46	0.00	0.61	0.34	0.65	86.21
Syllis sp.	0.43	0.00	0.60	0.36	0.64	86.85
Periploma papyratium	0.69	0.00	0.60	0.41	0.63	87.48
Ninoe nigripes	0.72	0.00	0.55	0.43	0.59	88.07
Prionospio sp.	0.43	0.00	0.52	0.35	0.55	88.62
Nereididae	0.48	0.00	0.51	0.36	0.54	89.16
Scalibregma inflatum	0.48	0.00	0.49	0.36	0.52	89.68
Terebellides stroemii	0.69	0.00	0.49	0.36	0.52	90.20

Groups sand & gravel mixes
Average dissimilarity = 89.47

	Group sand	Group gravel mixes				
Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Crassinella lunulata	0.07	3.54	4.03	1.49	4.51	4.51
Polygordius sp.	3.14	2.87	3.94	1.03	4.40	8.91

Crepidula fornicata	0.00	3.80	3.89	1.47	4.35	13.26
Syllidae	0.71	3.48	3.59	1.29	4.01	17.27
Ampharetidae	0.70	3.20	3.49	1.28	3.90	21.17
Cirratulidae	1.57	2.76	3.45	0.81	3.86	25.03
Naididae w/out hair chaetae	2.94	1.00	3.03	1.04	3.38	28.41
Ampelisca sp.	3.13	0.00	3.01	0.88	3.36	31.77
Glycera sp.	0.78	2.35	2.86	0.96	3.19	34.96
Nucula sp.	2.89	0.00	2.76	0.61	3.08	38.05
Nephtys sp.	2.38	0.00	2.53	0.92	2.83	40.88
Xanthidae	0.00	1.85	2.23	0.89	2.49	43.37
Goniadella gracilis	1.09	0.84	2.11	0.73	2.36	45.72
Aricidea sp.	1.67	1.00	2.09	0.80	2.33	48.05
Pisioninae	0.00	1.79	1.91	0.55	2.14	50.19
Nemertea	1.51	0.84	1.86	0.86	2.08	52.27
Ilyanassa trivittata	0.87	1.00	1.61	0.73	1.80	54.07
Tellininae	1.32	0.00	1.52	0.60	1.70	55.77
Scoletoma sp.	1.52	0.00	1.46	0.67	1.63	57.39
Clymenella torquata	0.69	0.84	1.40	0.65	1.56	58.96
Unciola sp.	0.90	1.00	1.37	0.72	1.53	60.49
Diastylis sp.	1.50	0.00	1.35	0.62	1.51	62.00
Gilvossius setimanus	0.06	0.84	1.33	0.54	1.49	63.49
Mediomastus sp.	0.43	0.84	1.29	0.63	1.45	64.93
Paraonidae	1.53	0.00	1.29	0.60	1.44	66.37
Travisia carnea	0.24	1.00	1.23	0.61	1.38	67.75
Polynoidae	0.27	0.84	1.13	0.60	1.26	69.01
Chiridotea sp.	0.06	1.00	1.12	0.57	1.25	70.26
Magelona rosea	0.21	0.84	1.12	0.59	1.25	71.51
Tanaidacea	0.15	0.84	1.10	0.57	1.23	72.74
Pandora sp.	0.00	1.19	1.10	0.56	1.23	73.97
Byblis serrata	0.87	0.00	1.08	0.44	1.21	75.18
Sabellaria vulgaris	0.00	0.84	0.99	0.55	1.10	76.28
Rhepoxynius epistomus	0.76	0.00	0.98	0.43	1.10	77.38
Erichthonius sp.	1.17	0.00	0.94	0.42	1.05	78.42
Anadara transversa	0.00	1.00	0.92	0.56	1.03	79.46
Columbellidae	0.00	1.00	0.92	0.56	1.03	80.49
Eudorella sp.	1.03	0.00	0.87	0.52	0.97	81.46
Exogone sp.	0.68	0.00	0.79	0.38	0.88	82.34
Amastigos caperatus	0.67	0.00	0.73	0.33	0.82	83.16
Prionospio sp.	0.65	0.00	0.70	0.39	0.79	83.95
Leitoscoloplos sp.	0.67	0.00	0.67	0.42	0.75	84.70
Echinarachnius parma	0.51	0.00	0.65	0.36	0.73	85.43
Scalibregma inflatum	0.47	0.00	0.62	0.35	0.69	86.12
Lumbrinerides acuta	0.46	0.00	0.54	0.30	0.61	86.73
Naididae w/ hair chaetae	0.47	0.00	0.53	0.33	0.59	87.33
Enchytraeidae	0.43	0.00	0.51	0.26	0.57	87.90
Phoxocephalus sp.	0.67	0.00	0.50	0.39	0.56	88.46

Ninoe nigripes	0.66	0.00	0.49	0.39	0.55	89.01
Spiophanes bombyx	0.47	0.00	0.46	0.36	0.52	89.53
Drilonereis sp.	0.51	0.00	0.46	0.35	0.51	90.04

Groups gravelly & gravel mixes
Average dissimilarity = 83.72

Species	Group gravelly Av.Abund	Group gravel mixes Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cirratulidae	2.97	2.76	4.74	1.33	5.67	5.67
Crassinella lunulata	1.28	3.54	4.40	1.54	5.25	10.92
Crepidula fornicata	1.08	3.80	4.08	1.43	4.87	15.79
Polygordius sp.	2.28	2.87	3.86	0.99	4.61	20.40
Ampharetidae	0.60	3.20	3.66	1.25	4.37	24.77
Syllidae	2.45	3.48	3.51	1.20	4.20	28.97
Naididae w/out hair chaetae	2.61	1.00	2.99	0.96	3.58	32.54
Glycera sp.	1.02	2.35	2.94	1.06	3.51	36.05
Pisioninae	0.72	1.79	2.41	0.69	2.88	38.93
Terebellidae	2.41	0.00	2.37	0.78	2.83	41.76
Goniadella gracilis	1.38	0.84	2.33	0.77	2.78	44.54
Xanthidae	0.18	1.85	2.32	0.88	2.77	47.31
Enchytraeidae	1.86	0.00	2.04	0.67	2.43	49.75
Aricidea sp.	1.34	1.00	1.92	0.79	2.30	52.05
Lumbrinerides acuta	1.54	0.00	1.83	0.55	2.19	54.23
Polynoidae	1.10	0.84	1.71	0.77	2.05	56.28
Unciola sp.	1.15	1.00	1.68	0.76	2.00	58.28
Nemertea	0.83	0.84	1.62	0.71	1.93	60.21
Scoletoma sp.	1.51	0.00	1.54	0.61	1.84	62.05
Dorvilleidae	1.43	0.00	1.50	0.65	1.79	63.85
Ilyanassa trivittata	0.36	1.00	1.48	0.61	1.77	65.61
Gilvossius setimanus	0.18	0.84	1.45	0.56	1.73	67.34
Clymenella torquata	0.58	0.84	1.37	0.65	1.64	68.99
Columbellidae	0.65	1.00	1.36	0.69	1.62	70.60
Tanaidacea	0.52	0.84	1.34	0.65	1.60	72.21
Pagurus sp.	1.31	0.00	1.32	0.57	1.58	73.79
Sabellaria vulgaris	0.40	0.84	1.30	0.63	1.55	75.33
Pandora sp.	0.18	1.19	1.21	0.60	1.45	76.78
Mediomastus sp.	0.39	0.84	1.19	0.63	1.43	78.21
Chiridotea sp.	0.00	1.00	1.12	0.55	1.33	79.54
Travisia carnea	0.00	1.00	1.12	0.55	1.33	80.87
Anadara transversa	0.18	1.00	1.03	0.60	1.23	82.11
Magelona rosea	0.00	0.84	1.03	0.55	1.23	83.33
Nephtys sp.	0.84	0.00	0.86	0.48	1.03	84.36
Scalibregma inflatum	0.71	0.00	0.78	0.40	0.94	85.30
Politolana sp.	0.64	0.00	0.75	0.38	0.89	86.19
Rhepoxynius epistomus	0.63	0.00	0.70	0.40	0.83	87.02

Polydora sp.	0.70	0.00	0.65	0.42	0.77	87.80
Mytilus edulis	0.59	0.00	0.64	0.33	0.77	88.57
Astarte castanea	0.42	0.00	0.57	0.32	0.69	89.25
Nucula sp.	0.42	0.00	0.53	0.33	0.63	89.88
Sigalion arenicola	0.45	0.00	0.47	0.33	0.56	90.44

Groups muddy sand & sandy mud
Average dissimilarity = 86.62

	Group muddy sand	Group sandy mud				
Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Ampelisca sp.	5.81	3.38	4.97	1.71	5.74	5.74
Petrasma borealis	0.16	4.02	4.84	2.89	5.59	11.33
Polydora sp.	0.35	4.02	4.70	2.68	5.43	16.76
Oxyurostylis sp.	0.00	3.38	4.19	3.62	4.84	21.59
Columbellidae	0.00	3.38	4.19	3.62	4.84	26.43
Pectinaria gouldii	0.14	3.38	4.03	2.82	4.65	31.08
Tellininae	0.35	3.38	4.01	2.78	4.63	35.71
Nucula sp.	1.99	3.38	3.98	2.35	4.60	40.30
Ilyanassa trivittata	0.54	3.38	3.51	1.83	4.05	44.35
Clymenella torquata	1.60	3.38	3.39	1.67	3.92	48.27
Amphioplus abditus	2.35	0.00	2.88	0.74	3.32	51.59
Nephtys sp.	2.30	0.00	2.69	1.02	3.11	54.70
Scoletoma sp.	2.13	0.00	2.33	0.86	2.69	57.38
Eudorella sp.	1.89	0.00	2.16	0.72	2.50	59.88
Cirratulidae	1.80	0.00	2.05	0.75	2.37	62.25
Clymenella zonalis	1.28	0.00	1.69	0.59	1.95	64.20
Erichthonius sp.	1.76	0.00	1.56	0.52	1.81	66.01
Nemertea	1.36	0.00	1.54	0.65	1.78	67.79
Paraonidae	1.56	0.00	1.48	0.55	1.71	69.50
Naididae w/out hair chaetae	1.32	0.00	1.47	0.58	1.70	71.19
Drilonereis sp.	1.35	0.00	1.41	0.63	1.63	72.82
Mediomastus sp.	0.90	0.00	1.10	0.54	1.27	74.10
Leptocheirus sp.	1.08	0.00	0.98	0.53	1.13	75.22
Diastylis sp.	0.94	0.00	0.92	0.52	1.07	76.29
Cossura longocirrata	0.93	0.00	0.87	0.45	1.00	77.29
Polynoidae	0.84	0.00	0.86	0.53	1.00	78.29
Thyasira sp.	0.95	0.00	0.77	0.49	0.88	79.17
Sabaco elongatus	0.60	0.00	0.75	0.42	0.87	80.04
Sipuncula	0.51	0.00	0.72	0.35	0.83	80.87
Pyramidellidae	0.62	0.00	0.69	0.36	0.80	81.67
Exogone sp.	0.46	0.00	0.65	0.35	0.75	82.41
Syllis sp.	0.43	0.00	0.64	0.36	0.73	83.15
Periploma papyratium	0.69	0.00	0.63	0.41	0.72	83.87
Ninoe nigripes	0.72	0.00	0.58	0.43	0.66	84.53
Prionospio sp.	0.43	0.00	0.55	0.36	0.64	85.17

Crepidula fornicata	0.54	0.00	0.55	0.28	0.63	85.80
Nereididae	0.48	0.00	0.53	0.36	0.62	86.42
Scalibregma inflatum	0.48	0.00	0.52	0.36	0.60	87.01
Terebellides stroemii	0.69	0.00	0.51	0.35	0.59	87.60
Ampharetidae	0.44	0.00	0.50	0.36	0.58	88.18
Unciola sp.	0.49	0.00	0.46	0.35	0.53	88.71
Spiophanes bombyx	0.47	0.00	0.43	0.35	0.50	89.21
Naididae w/ hair chaetae	0.43	0.00	0.40	0.36	0.47	89.67
Yoldia sp.	0.30	0.00	0.40	0.26	0.46	90.14

Groups sand & sandy mud
Average dissimilarity = 88.31

	Group sand	Group sandy mud				
Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Petrasma borealis	0.00	4.02	5.00	3.47	5.66	5.66
Polydora sp.	0.06	4.02	4.87	3.35	5.52	11.18
Nucula sp.	2.89	3.38	4.58	1.65	5.19	16.37
Oxyurostylis sp.	0.00	3.38	4.20	3.47	4.76	21.13
Columbellidae	0.00	3.38	4.20	3.47	4.76	25.89
Pectinaria gouldii	0.00	3.38	4.20	3.47	4.76	30.65
Clymenella torquata	0.69	3.38	3.90	2.46	4.41	35.06
Ampelisca sp.	3.13	3.38	3.80	2.19	4.31	39.37
Polygordius sp.	3.14	0.00	3.64	0.90	4.12	43.48
Ilyanassa trivittata	0.87	3.38	3.36	1.68	3.81	47.29
Tellininae	1.32	3.38	3.30	1.69	3.74	51.03
Naididae w/out hair chaetae	2.94	0.00	3.27	1.06	3.71	54.74
Nephtys sp.	2.38	0.00	2.68	0.94	3.03	57.77
Aricidea sp.	1.67	0.00	1.83	0.66	2.08	59.85
Cirratulidae	1.57	0.00	1.63	0.62	1.84	61.69
Nemertea	1.51	0.00	1.59	0.74	1.81	63.50
Scoletoma sp.	1.52	0.00	1.54	0.68	1.74	65.23
Goniadella gracilis	1.09	0.00	1.47	0.47	1.66	66.90
Diastylis sp.	1.50	0.00	1.42	0.63	1.61	68.51
Paraonidae	1.53	0.00	1.35	0.60	1.53	70.04
Byblis serrata	0.87	0.00	1.14	0.45	1.30	71.34
Rhepoxynius epistomus	0.76	0.00	1.04	0.44	1.18	72.52
Erichthonius sp.	1.17	0.00	0.98	0.42	1.11	73.63
Glycera sp.	0.78	0.00	0.94	0.50	1.06	74.69
Eudorella sp.	1.03	0.00	0.91	0.52	1.03	75.72
Exogone sp.	0.68	0.00	0.84	0.39	0.95	76.67
Ampharetidae	0.70	0.00	0.78	0.45	0.89	77.56
Amastigos caperatus	0.67	0.00	0.78	0.33	0.88	78.44
Syllidae	0.71	0.00	0.77	0.38	0.87	79.30
Prionospio sp.	0.65	0.00	0.74	0.39	0.84	80.15
Unciola sp.	0.90	0.00	0.71	0.45	0.81	80.95

Leitoscoloplos sp.	0.67	0.00	0.71	0.42	0.80	81.76
Echinarachnius parma	0.51	0.00	0.69	0.36	0.78	82.54
Scalibregma inflatum	0.47	0.00	0.66	0.36	0.75	83.28
Lumbrinerides acuta	0.46	0.00	0.58	0.31	0.65	83.94
Naididae w/ hair chaetae	0.47	0.00	0.56	0.33	0.64	84.57
Enchytraeidae	0.43	0.00	0.54	0.26	0.61	85.19
Phoxocephalus sp.	0.67	0.00	0.52	0.39	0.59	85.78
Ninoe nigripes	0.66	0.00	0.52	0.39	0.58	86.36
Mediomastus sp.	0.43	0.00	0.50	0.31	0.57	86.93
Spiophanes bombyx	0.47	0.00	0.49	0.37	0.55	87.48
Drilonereis sp.	0.51	0.00	0.48	0.35	0.55	88.03
Protohaustorius sp.	0.36	0.00	0.47	0.27	0.54	88.57
Terebellidae	0.33	0.00	0.45	0.30	0.51	89.08
Leptocheirus sp.	0.46	0.00	0.36	0.33	0.41	89.49
Sthenelais limicola	0.33	0.00	0.36	0.30	0.41	89.90
Pagurus sp.	0.27	0.00	0.32	0.27	0.37	90.27

Groups gravelly & sandy mud
Average dissimilarity = 93.45

	Group gravelly	Group sandy mud				
Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Petrasma borealis	0.00	4.02	5.21	3.53	5.58	5.58
Polydora sp.	0.70	4.02	4.65	1.99	4.98	10.56
Oxyurostylis sp.	0.00	3.38	4.38	3.53	4.69	15.25
Pectinaria gouldii	0.00	3.38	4.38	3.53	4.69	19.94
Clymenella torquata	0.58	3.38	4.24	2.88	4.54	24.48
Ampelisca sp.	0.22	3.38	4.21	2.86	4.51	28.99
Tellininae	0.42	3.38	4.07	2.43	4.35	33.34
Nucula sp.	0.42	3.38	4.00	2.40	4.29	37.62
Columbellidae	0.65	3.38	3.94	2.12	4.22	41.84
Ilyanassa trivittata	0.36	3.38	3.72	2.37	3.98	45.82
Cirratulidae	2.97	0.00	3.71	1.21	3.97	49.78
Naididae w/out hair chaetae	2.61	0.00	3.00	0.87	3.21	52.99
Polygordius sp.	2.28	0.00	2.78	0.68	2.97	55.97
Syllidae	2.45	0.00	2.68	0.89	2.87	58.84
Terebellidae	2.41	0.00	2.50	0.78	2.67	61.51
Enchytraeidae	1.86	0.00	2.16	0.67	2.31	63.81
Lumbrinerides acuta	1.54	0.00	1.94	0.55	2.08	65.89
Goniadella gracilis	1.38	0.00	1.73	0.55	1.85	67.74
Scoletoma sp.	1.51	0.00	1.63	0.60	1.74	69.48
Aricidea sp.	1.34	0.00	1.63	0.64	1.74	71.22
Dorvilleidae	1.43	0.00	1.59	0.65	1.70	72.92
Glycera sp.	1.02	0.00	1.58	0.56	1.69	74.60
Pagurus sp.	1.31	0.00	1.40	0.57	1.49	76.10
Crassinella lunulata	1.28	0.00	1.36	0.42	1.46	77.55

Polynoidae	1.10	0.00	1.24	0.56	1.32	78.88
Unciola sp.	1.15	0.00	1.22	0.57	1.31	80.18
Nemertea	0.83	0.00	1.09	0.49	1.16	81.34
Crepidula fornicata	1.08	0.00	1.09	0.41	1.16	82.51
Nephtys sp.	0.84	0.00	0.91	0.47	0.97	83.48
Pisioninae	0.72	0.00	0.83	0.42	0.89	84.37
Scalibregma inflatum	0.71	0.00	0.83	0.39	0.89	85.26
Politolana sp.	0.64	0.00	0.79	0.38	0.85	86.11
Rhepoxynius epistomus	0.63	0.00	0.74	0.40	0.79	86.89
Mytilus edulis	0.59	0.00	0.68	0.33	0.73	87.62
Ampharetidae	0.60	0.00	0.66	0.41	0.71	88.33
Astarte castanea	0.42	0.00	0.61	0.32	0.65	88.98
Sabellaria vulgaris	0.40	0.00	0.52	0.33	0.55	89.53
Tanaidacea	0.52	0.00	0.51	0.33	0.55	90.08

Groups gravel mixes & sandy mud
Average dissimilarity = 93.95

Species	Group gravel mixes Av.Abund	Group sandy mud Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Petrasma borealis	0.00	4.02	5.39	4.17	5.74	5.74
Polydora sp.	0.00	4.02	5.39	4.17	5.74	11.48
Crassinella lunulata	3.54	0.00	4.65	1.50	4.95	16.43
Ampelisca sp.	0.00	3.38	4.53	4.17	4.83	21.26
Oxyurostylis sp.	0.00	3.38	4.53	4.17	4.83	26.08
Tellininae	0.00	3.38	4.53	4.17	4.83	30.91
Nucula sp.	0.00	3.38	4.53	4.17	4.83	35.73
Pectinaria gouldii	0.00	3.38	4.53	4.17	4.83	40.56
Crepidula fornicata	3.80	0.00	4.40	1.41	4.69	45.25
Ampharetidae	3.20	0.00	4.37	1.42	4.65	49.90
Syllidae	3.48	0.00	4.15	1.28	4.42	54.31
Columbellidae	1.00	3.38	3.83	1.69	4.07	58.39
Ilyanassa trivittata	1.00	3.38	3.70	1.67	3.94	62.33
Clymenella torquata	0.84	3.38	3.41	1.35	3.63	65.95
Glycera sp.	2.35	0.00	3.33	0.86	3.55	69.50
Polygordius sp.	2.87	0.00	3.31	0.77	3.52	73.02
Cirratulidae	2.76	0.00	2.85	0.50	3.03	76.05
Xanthidae	1.85	0.00	2.55	0.84	2.71	78.76
Pisioninae	1.79	0.00	2.17	0.50	2.31	81.07
Gilvossius setimanus	0.84	0.00	1.51	0.50	1.61	82.68
Goniadella gracilis	0.84	0.00	1.51	0.50	1.61	84.28
Pandora sp.	1.19	0.00	1.23	0.50	1.31	85.59
Chiridotea sp.	1.00	0.00	1.22	0.50	1.30	86.89
Naididae w/out hair chaetae	1.00	0.00	1.22	0.50	1.30	88.19
Travisia carnea	1.00	0.00	1.22	0.50	1.30	89.49
Tanaidacea	0.84	0.00	1.13	0.50	1.20	90.69

Appendix N: Underwater Video Summary Results

Transect ID	Project Area	Dominant Substrate	Vertebrate Taxa	Invertebrate Taxa
522LA22-VT001	Lease Area	Muddy Sand	6	6
522LA22-VT002		Muddy Sand	5	6
522LA22-VT003		Muddy Sand	7	6
522LA22-VT004		Muddy Sand	9	5
522LA22-VT005		Muddy Sand	7	5
522LA22-VT006		Sand	4	7
522LA22-VT007		Sand	7	7
522LA22-VT008		Sandy Mud	3	5
522LA22-VT009		Sandy Mud	5	4
522LA22-VT010		Sandy Mud	4	9
522LA22-VT011		Sandy Mud	4	8
522LA22-VT012		Sandy Mud	2	10
522LA22-VT013		Sandy Mud	3	7
522LA22-VT014		Muddy Sand	7	7
522LA22-VT015		Muddy Sand	5	7
522LA22-VT016		Muddy Sand	8	5
522LA22-VT017		Sand	3	6
522LA22-VT018		Muddy Sand	7	6
522LA22-VT019		Muddy Sand	6	6

Transect ID	Project Area	Dominant Substrate	Vertebrate Taxa	Invertebrate Taxa
522MA22-VT001	MA OECC	Sand	1	2
522MA22-VT002		Sand	0	4
522MA22-VT003		Sand	1	6
522MA22-VT004		Gravel Mixes	1	6
522MA22-VT005		Sand	3	6
522MA22-VT006		Sand	1	2
522MA22-VT007		Sand	2	2
522MA22-VT008		Muddy Sand	3	7
522MA22-VT009		Sand	2	4
522MA22-VT010		Sand	3	5
522MA22-VT011		Muddy Sand	3	3
522MA22-VT012		Sand	1	4
522MA22-VT013		Sand	3	7
522MA22-VT014		Muddy Sand	3	7
522MA22-VT015		Muddy Sand	1	2
522MA22-VT016		Muddy Sand	4	3
522MA22-VT017		Muddy Sand	4	4
522MA22-VT018		Muddy Sand	3	5
522MA22-VT019		Muddy Sand	4	3
522MA22-VT020		Muddy Sand	3	7
522MA22-VT021		Gravel Mixes	2	7
522MA22-VT022-ALT		Gravel Mixes	2	7
522MA22-VT023		Gravel	4	9
522MA22-VT024		Gravelly	1	7
522MA22-VT025		Sand	1	3
522MA22-VT026		Gravelly	3	3
522MA22-VT027		Sand	2	3
522MA22-VT028		Muddy Sand	6	3
522MA22-VT029		Gravelly	1	4
522MA22-VT030		Gravelly	4	6
522MA22-VT031		Muddy Sand	6	7
522MA22-VT032		Muddy Sand	4	6
522MA22-VT033		Muddy Sand	5	5
522MA22-VT034		Sandy Mud	3	9
522MA22-VT035		Sand	4	4
522MA22-VT036		Muddy Sand	3	5
522MA22-VT037		Muddy Sand	5	7
522MA22-VT038		Sand	4	4
522MA22-VT039		Muddy Sand	4	6
522MA22-VT040		Muddy Sand	3	4
522MA22-VT041-ALT1		Muddy Sand	5	5
522MA22-VT042		Sand	3	1
522MA22-VT043		Sand	0	1
522MA22-VT044		Muddy Sand	1	5

Transect ID	Project Area	Dominant Substrate	Vertebrate Taxa	Invertebrate Taxa
522MA22-VT045	MA OECC	Muddy Sand	2	2
522MA22-VT046		Muddy Sand	2	6
522MA22-VT047		Muddy Sand	4	3
522MA22-VT048		Gravelly	4	5
522MA22-VT049		Sand	5	5
522MA22-VT050		Sand	6	10
522MA22-VT051		Muddy Sand	3	9
522MA22-VT052		Muddy Sand	3	10
522MA22-VT053		Gravelly	5	9
522MA22-VT054		Gravel Mixes	2	10
522MA22-VT055		Sandy Mud	4	8
522MA22-VT056		Gravel Mixes	2	9
522MA22-VT057		Gravel	4	6
522MA22-VT058		Sand	3	4
522MA22-VT059		Sandy Mud	6	8

Transect ID	Project Area	Dominant Substrate	Vertebrate Taxa	Invertebrate Taxa
522CT22-VT001	CT OECC	Sandy Mud	2	1
522CT22-VT002		Sandy Mud	6	8
522CT22-VT003		Muddy Sand	3	3
522CT22-VT004		Sandy Mud	6	7
522CT22-VT005		Muddy Sand	5	8
522CT22-VT006		Muddy Sand	8	4
522CT22-VT007		Muddy Sand	4	1
522CT22-VT008		Muddy Sand	6	7
522CT22-VT009		Muddy Sand	2	4
522CT22-VT010		Sand	4	5
522CT22-VT011		Sandy Mud	3	4
522CT22-VT012		Muddy Sand	6	6
522CT22-VT013		Muddy Sand	3	2
522CT22-VT014		Sand	4	7
522CT22-VT015		Muddy Sand	6	6
522CT22-VT016		Sand	4	7
522CT22-VT017		Sand	1	1
522CT22-VT018		Sand	5	5
522CT22-VT019		Muddy Sand	4	8
522CT22-VT020		Sand	4	4
522CT22-VT021		Muddy Sand	1	2
522CT22-VT022		Sand	7	7
522CT22-VT023		Muddy Sand	5	4
522CT22-VT024		Muddy Sand	7	7
522CT22-VT025		Muddy Sand	2	2
522CT22-VT026		Muddy Sand	3	8
522CT22-VT027		Muddy Sand	9	11
522CT22-VT028		Sand	6	5
522CT22-VT029		Sand	6	10
522CT22-VT030		Sand	4	3
522CT22-VT031		Sand	2	7
522CT22-VT032		Gravelly	1	4
522CT22-VT033		Shell	3	3
522CT22-VT034		Gravelly	0	3
522CT22-VT035		Gravel	5	8
522CT22-VT036		Gravelly	1	2
522CT22-VT037		Gravelly	3	12
522CT22-VT038		Sand	1	8
522CT22-VT039		Sand	3	5
522CT22-VT040		Sand	0	4
522CT22-VT041		Shell	3	8
522CT22-VT042		Sand	0	6
522CT22-VT043		Sand	1	4
522CT22-VT044		Sand	4	8

Transect ID	Project Area	Dominant Substrate	Vertebrate Taxa	Invertebrate Taxa
522CT22-VT045	CT OECC	Sand	2	8
522CT22-VT046		Gravel	0	8
522CT22-VT047		Gravel Mixes	2	4
522CT22-VT048		Sand	1	2
522CT22-VT049		Gravel	2	7
522CT22-VT050		Gravel Mixes	3	8
522CT22-VT051		Gravelly	0	8
522CT22-VT052		Shell	3	7
522CT22-VT053		Gravel	1	7
522CT22-VT054		Gravel	4	4
522CT22-VT055		Gravel Mixes	4	7
522CT22-VT056		Gravel Mixes	1	2
522CT22-VT057		Gravel Mixes	0	0
522CT22-VT058		Sandy Mud	0	3
522CT22-VT059		Sandy Mud	0	3
522CT22-VT060		Gravelly	2	4
522CT22-VT061		Gravel	7	8
522CT22-VT062		Shell	3	8
522CT22-VT064		Sand	0	4
522CT22-VT065		Muddy Sand	4	2
522CT22-VT066		Sand	1	3
522CT22-VT067		Shell	1	0
522CT22-VT068		Shell	1	3
522CT22-VT069		Sand	1	5
522CT22-VT070		Sand	1	8
522CT22-VT072		Sand	0	2
522CT22-VT073		Muddy Sand	1	4
522CT22-VT074		Muddy Sand	4	9
522CT22-VT075		Sand	2	1
522CT22-VT076		Sand	0	4
522CT22-VT077		Sand	1	4
522CT22-VT078		Sand	1	3
522CT22-VT079		Muddy Sand	2	5
522CT22-VT080		Muddy Sand	1	5
522CT22-VT081		Sand	2	1
522CT22-VT082		Muddy Sand	3	5
522CT22-VT083		Sand	0	2
522CT22-VT084		Gravelly	4	1
522CT22-VT085		Sand	2	0
522CT22-VT086		Gravelly	1	1
522CT22-VT087		Gravelly	7	2
522CT22-VT088		Sand	3	7
522CT22-VT089		Sand	3	8
522CT22-VT090		Sand	4	10

Transect ID	Project Area	Dominant Substrate	Vertebrate Taxa	Invertebrate Taxa
522CT22-VT091	CT OECC	Muddy Sand	3	11
522CT22-VT092		Gravelly	2	8
522CT22-VT093		Sand	1	5
522CT22-VT094		Gravel	5	8
522CT22-VT095		Sandy Mud	3	10
522CT22-VT096		Shell	1	4
522CT22-VT097		Sand	3	4
522CT22-VT098		Sand	2	9
522CT22-VT100		Sand	2	8
522CT22-VT101		Muddy Sand	2	4
522CT22-VT102		Sand	2	10
522CT22-VT104		Muddy Sand	5	4
522CT22-VT105		Sand	4	5
522CT22-VT106		Muddy Sand	2	6
522CT22-VT107		Sand	2	4
522CT22-VT108		Muddy Sand	2	4
522CT22-VT109		Sand	1	3
522CT22-VT110		Muddy Sand	1	1
522CT22-VT111		Muddy Sand	1	0
522CT22-VT112		Sand	2	4
522CT22-VT113		Sand	2	2
522CT22-VT114		Sand	3	1
522CT22-VT115		Sand	1	2
522CT22-VT116		Gravelly	4	3
522CT22-VT117		Sand	1	1
522CT22-VT118		Sand	2	1

Appendix O: CMECS Classifications Maps for Grabs and Video Surveys

COORDINATE SYSTEM: NAD 1983 2011 UTM ZONE 19N; MAP ROTATION: 0
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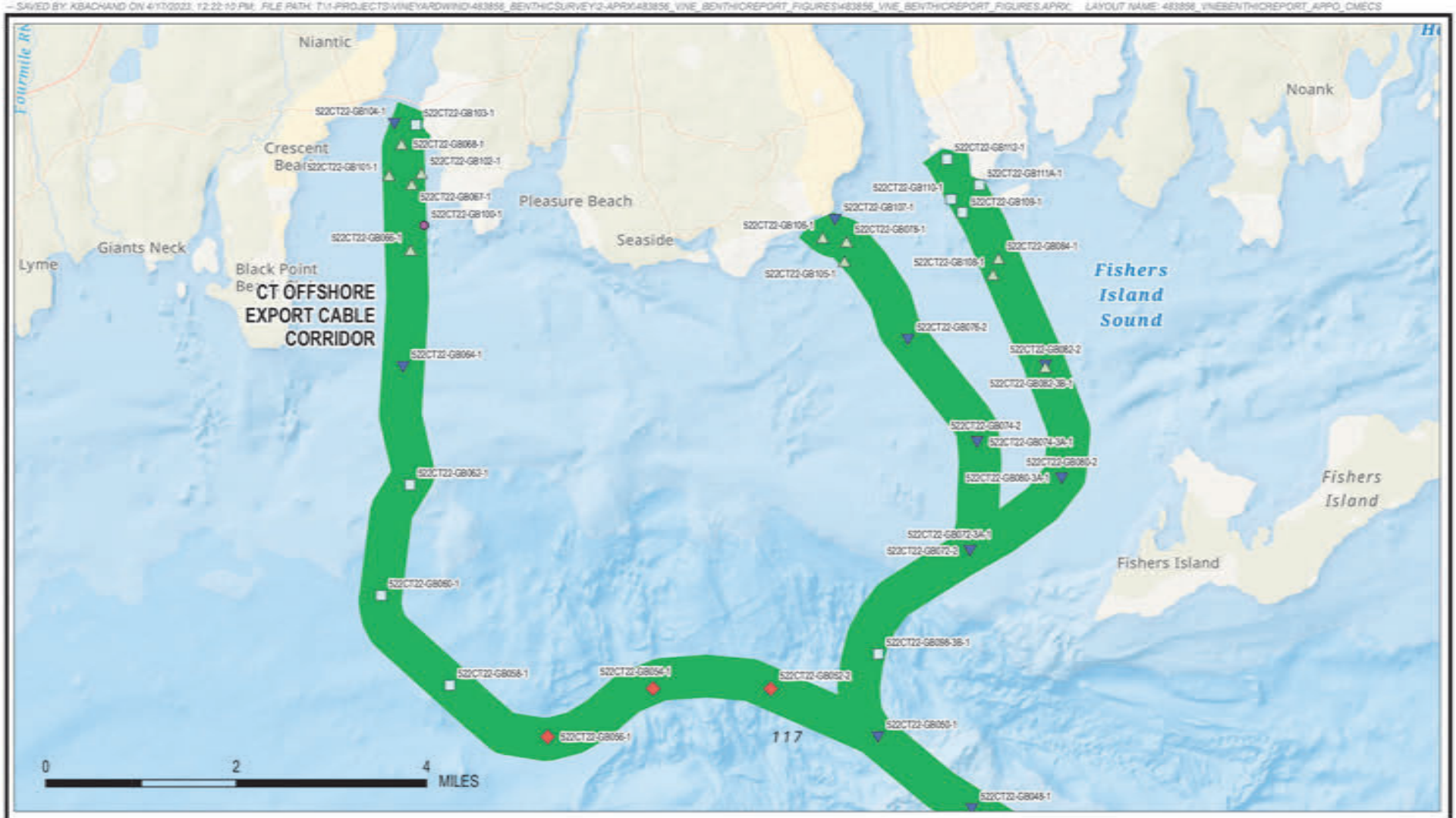

BENTHIC INFAUNAL SAMPLE LOCATION

- SANDY MUD
- MUDDY SAND
- SAND
- GRAVELLY
- GRAVEL MIXES

- MA OFFSHORE EXPORT CABLE CORRIDOR
- CT OFFSHORE EXPORT CABLE CORRIDOR
- OCS-A 0522

BASE MAP: ESRI, WORLD OCEAN BASE
DATA SOURCES: TRC, GPS, 2022

0 50 100 MILES
1:97,000 1" = 8,083'

PROJECT: VINEYARD NORTHEAST

TITLE: BENTHIC SAMPLING LOCATIONS BY CMECS SUBSTRATE GROUP

DRAWN BY:	K. BACHAND	PROJ. NO.:	483856
CHECKED BY:	S. DEHAINAUT		
APPROVED BY:	A. CHASE		
DATE:	APRIL 2023		

Appendix O
Sheet 1 of 4

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_VNE_BENTHICREPORT_FIGURES

COORDINATE SYSTEM: NAD 1983 2011 UTM ZONE 19N; MAP ROTATION: 0
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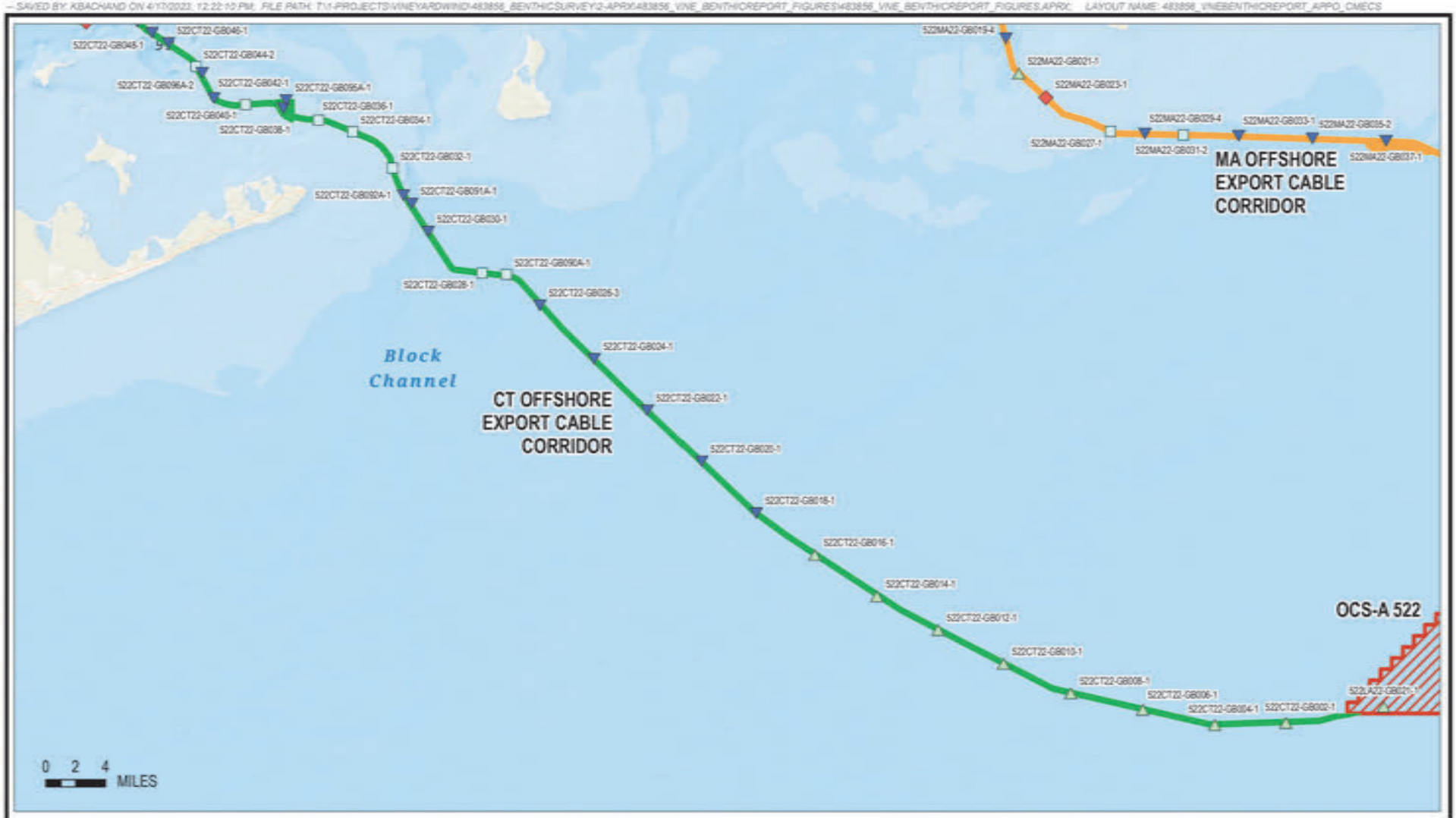
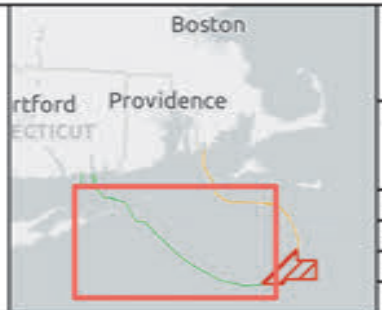


BENTHIC INFAUNAL SAMPLE LOCATION

- SANDY MUD
- MUDDY SAND
- SAND
- GRAVELLY
- GRAVEL MIXES

- MA OFFSHORE EXPORT CABLE CORRIDOR
- CT OFFSHORE EXPORT CABLE CORRIDOR
- OCS-A 0522



BASE MAP: ESRI, WORLD OCEAN BASE
DATA SOURCES: TRC, GPS, 2022

0 50 100 MILES
1:622,000 1" = 51,833'

PROJECT: VINEYARD NORTHEAST

TITLE: BENTHIC SAMPLING LOCATIONS BY CMECS SUBSTRATE GROUP

DRAWN BY:	K. BACHAND	PROJ. NO.:	483856
CHECKED BY:	S. DEHAINAUT		
APPROVED BY:	A. CHASE		
DATE:	APRIL 2023		

Appendix O
Sheet 2 of 4

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_VNE_BENTHICREPORT_FIGURES

COORDINATE SYSTEM: NAD 1983 2011 UTM ZONE 19N; MAP ROTATION: 0
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BENTHIC INFAUNAL SAMPLE LOCATION

- SANDY MUD
- MUDDY SAND
- SAND
- GRAVELLY
- GRAVEL MIXES

- MA OFFSHORE EXPORT CABLE CORRIDOR
- CT OFFSHORE EXPORT CABLE CORRIDOR
- OCS-A 0522

BASE MAP: ESRI, WORLD OCEAN BASE
DATA SOURCES: TRC, GPS, 2022

0 50 100 MILES
1:585,000 1" = 48,750'

PROJECT: VINEYARD NORTHEAST

TITLE: BENTHIC SAMPLING LOCATIONS BY CMECS SUBSTRATE GROUP

DRAWN BY:	K. BACHAND	PROJ. NO.:	483856
CHECKED BY:	S. DEHAINAUT		
APPROVED BY:	A. CHASE		
DATE:	APRIL 2023		

Appendix O
Sheet 3 of 4

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_VNE_BENTHICREPORT_FIGURES

COORDINATE SYSTEM: NAD 1983 2011 UTM ZONE 19N; MAP ROTATION: 0
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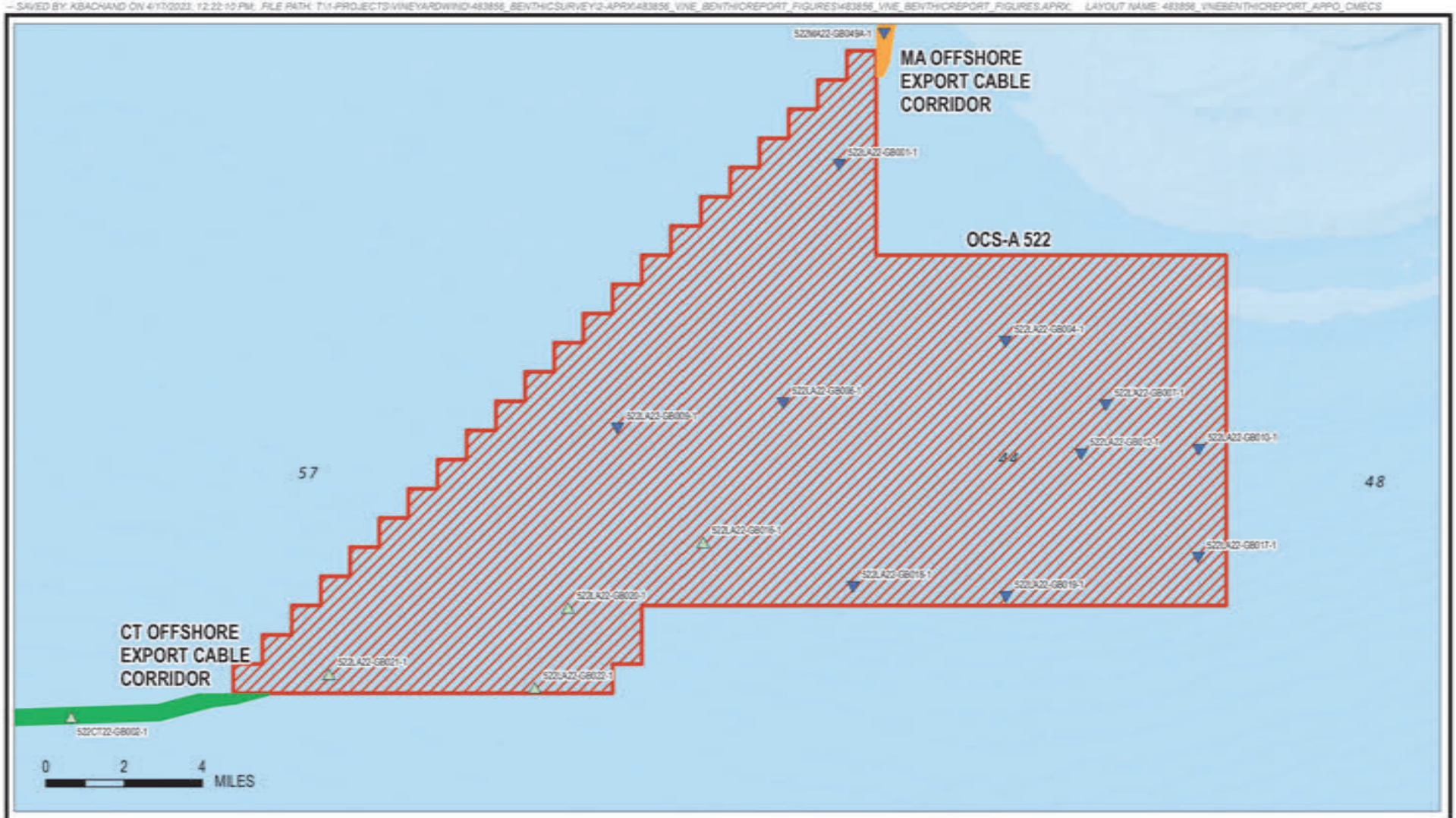


BENTHIC INFAUNAL SAMPLE LOCATION

- SANDY MUD
- MUDDY SAND
- SAND
- GRAVELLY
- GRAVEL MIXES

- MA OFFSHORE EXPORT CABLE CORRIDOR
- CT OFFSHORE EXPORT CABLE CORRIDOR
- OCS-A 0522

BASE MAP: ESRI, WORLD OCEAN BASE
DATA SOURCES: TRC, GPS, 2022

0 50 100 MILES
1:236,000 1" = 19,667'

PROJECT: VINEYARD NORTHEAST

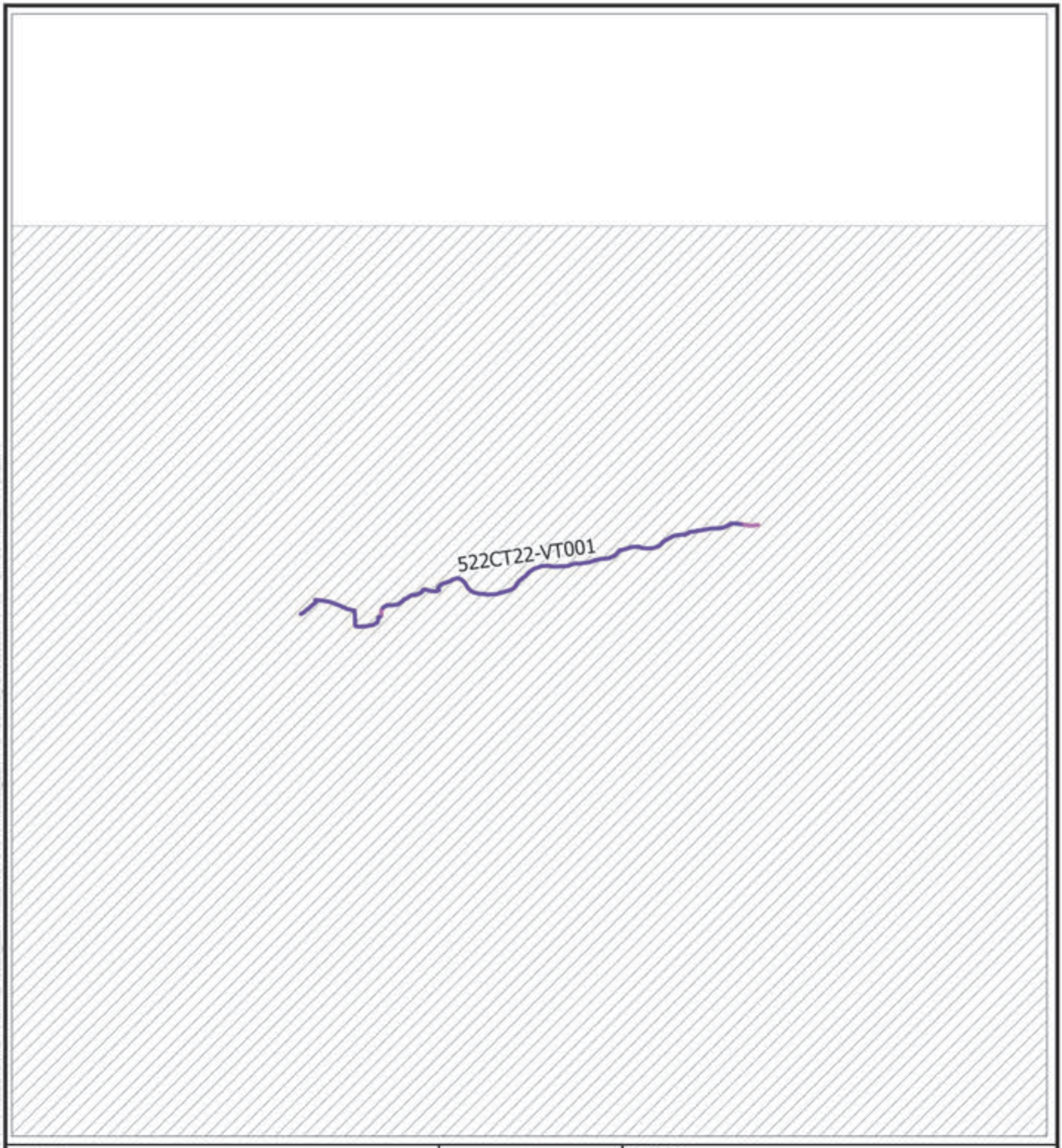
TITLE: BENTHIC SAMPLING LOCATIONS BY CMECS SUBSTRATE GROUP

DRAWN BY:	K. BACHAND	PROJ. NO.:	483856
CHECKED BY:	S. DEHAINAUT		
APPROVED BY:	A. CHASE		
DATE:	APRIL 2023		

Appendix O
Sheet 4 of 4

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_VNE_BENTHICREPORT_FIGURES



CT Offshore Export Cable Corridor
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

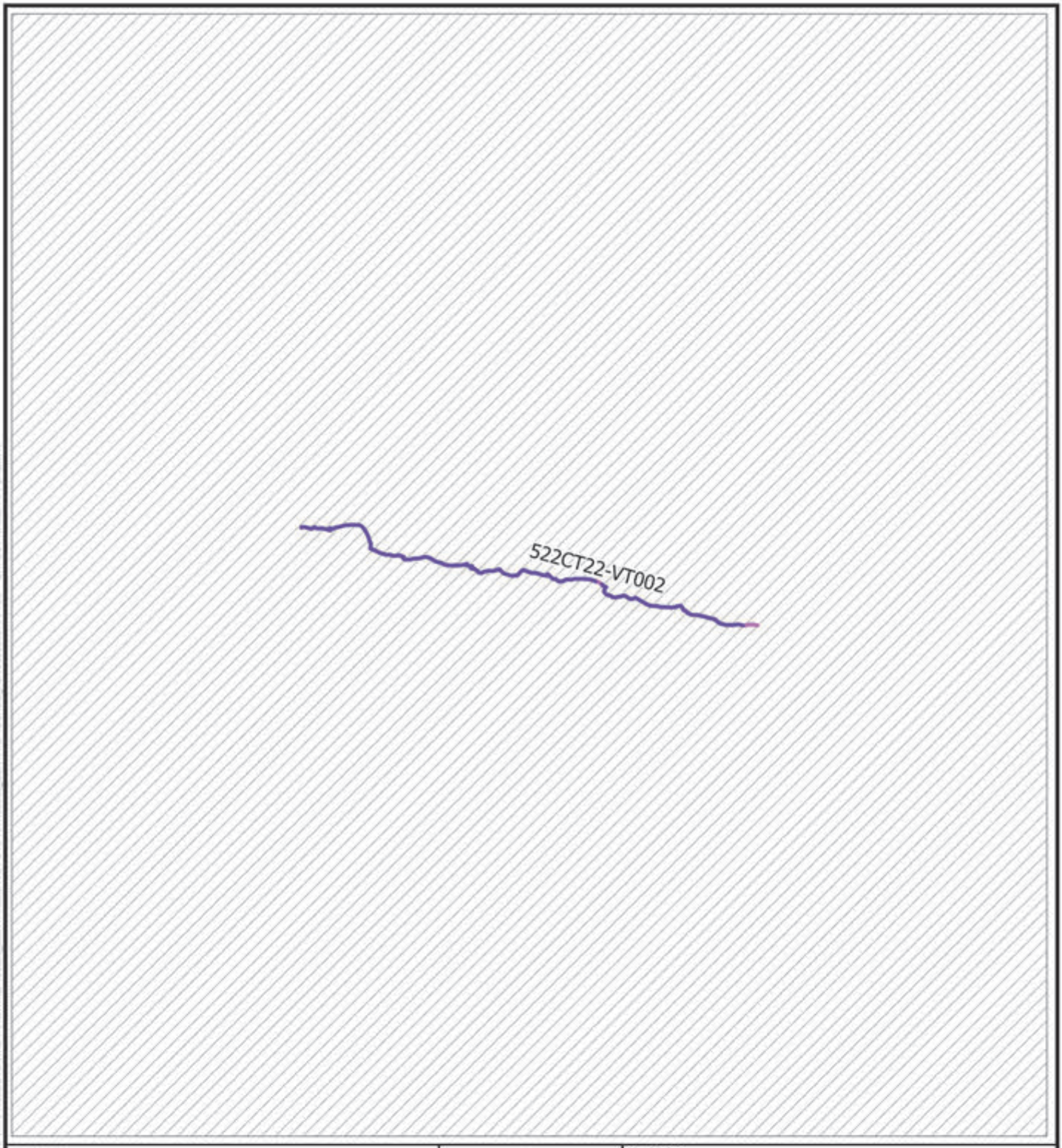
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

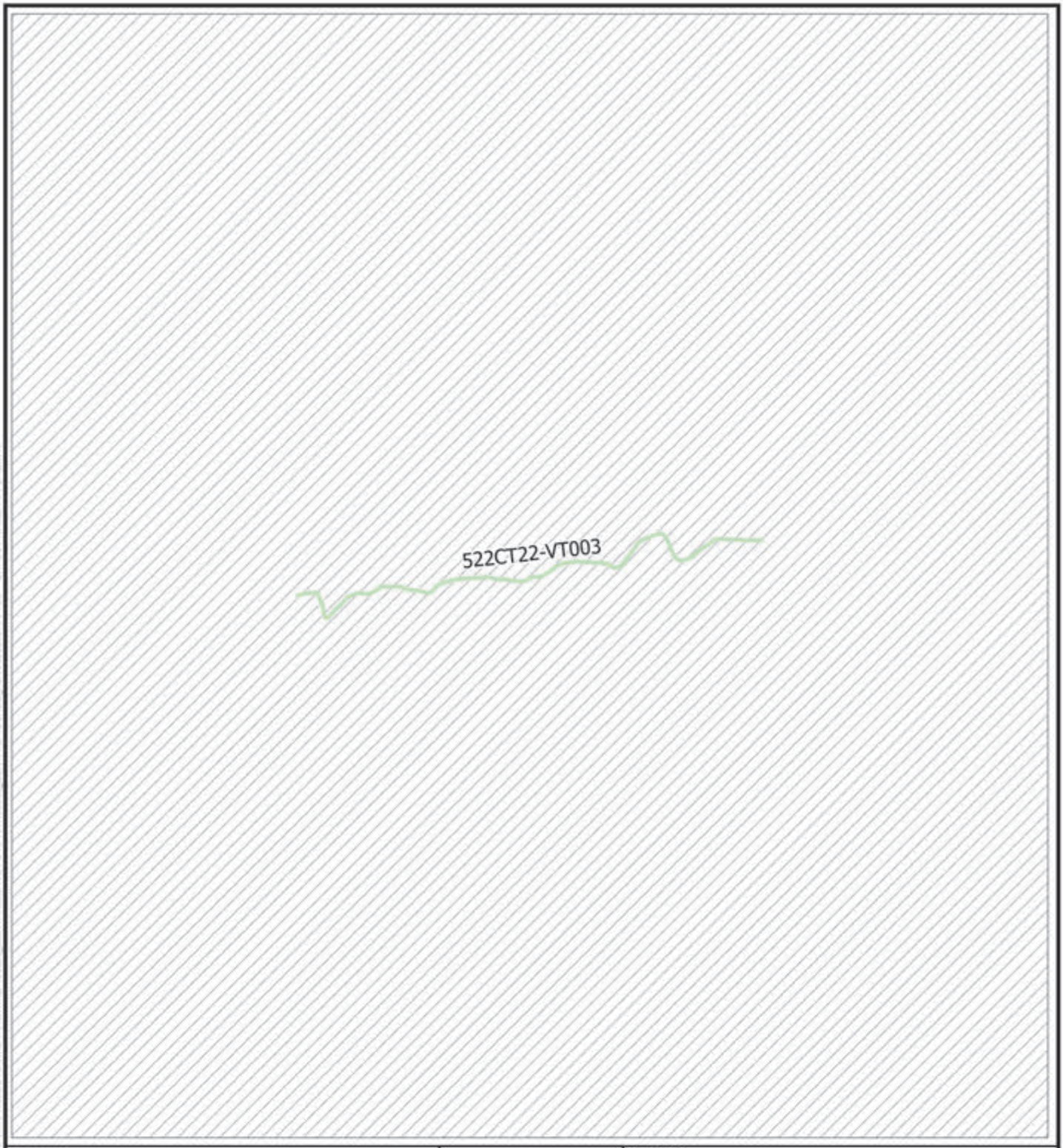
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT002

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

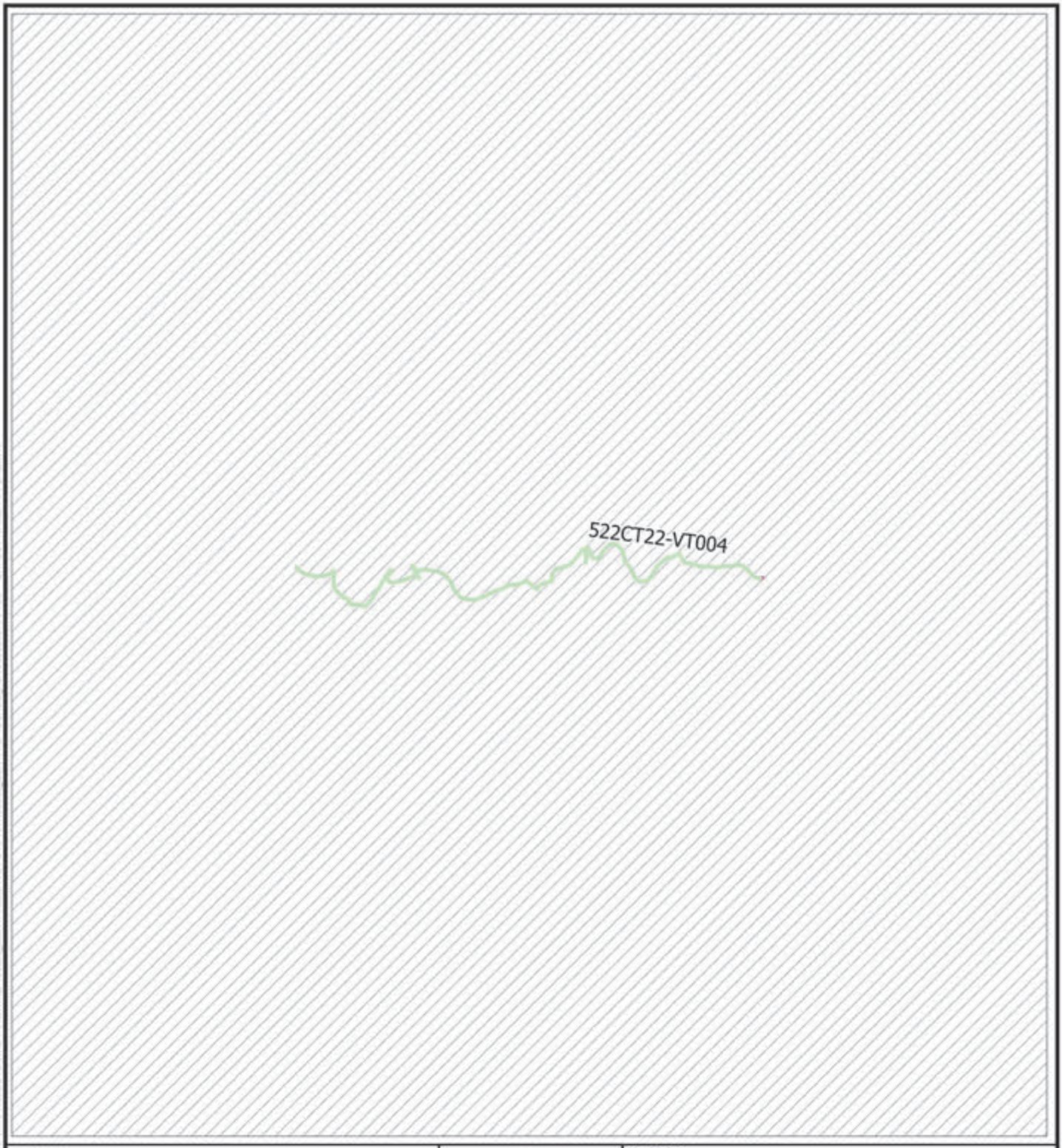
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

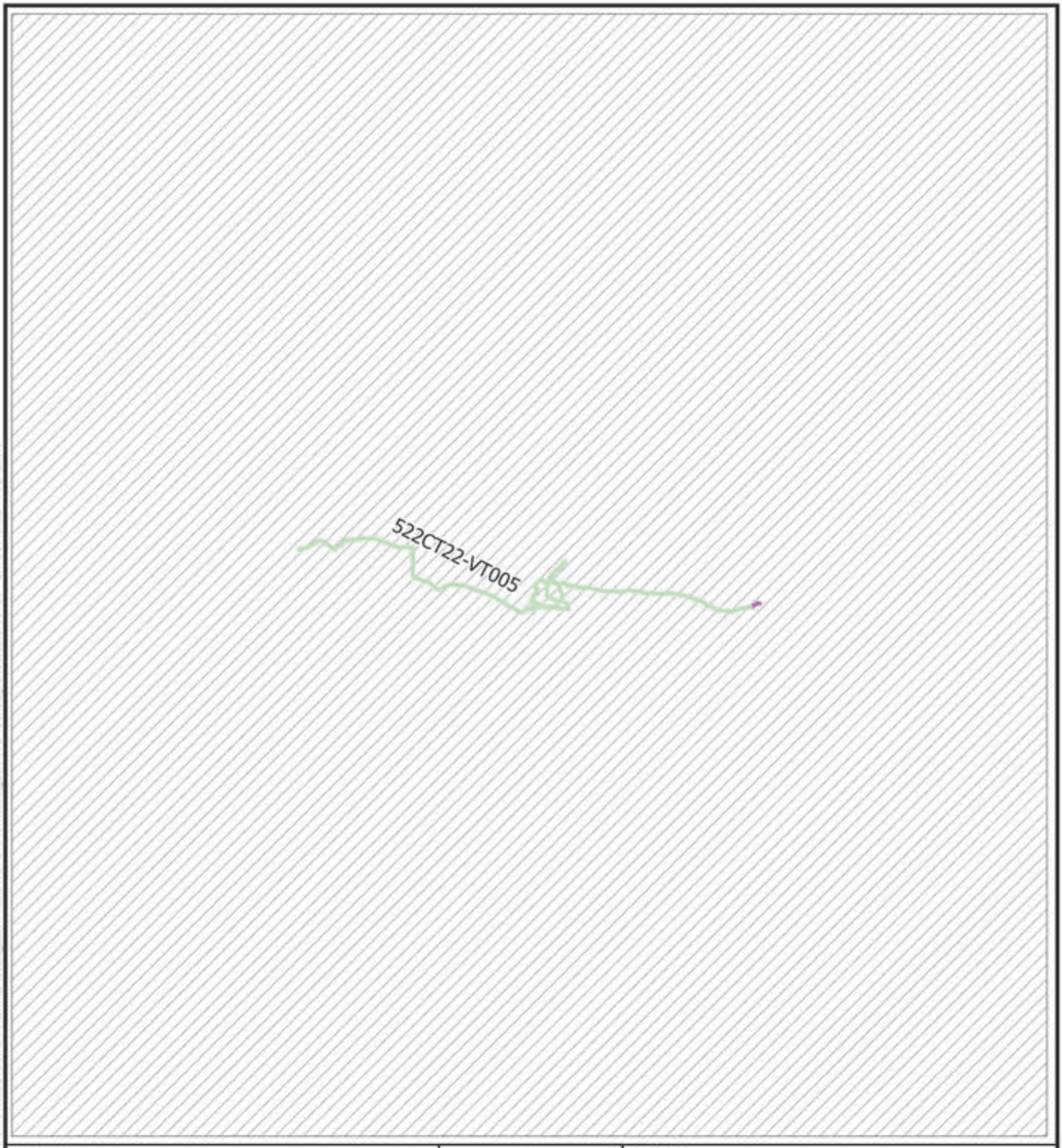
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\REVIEW\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

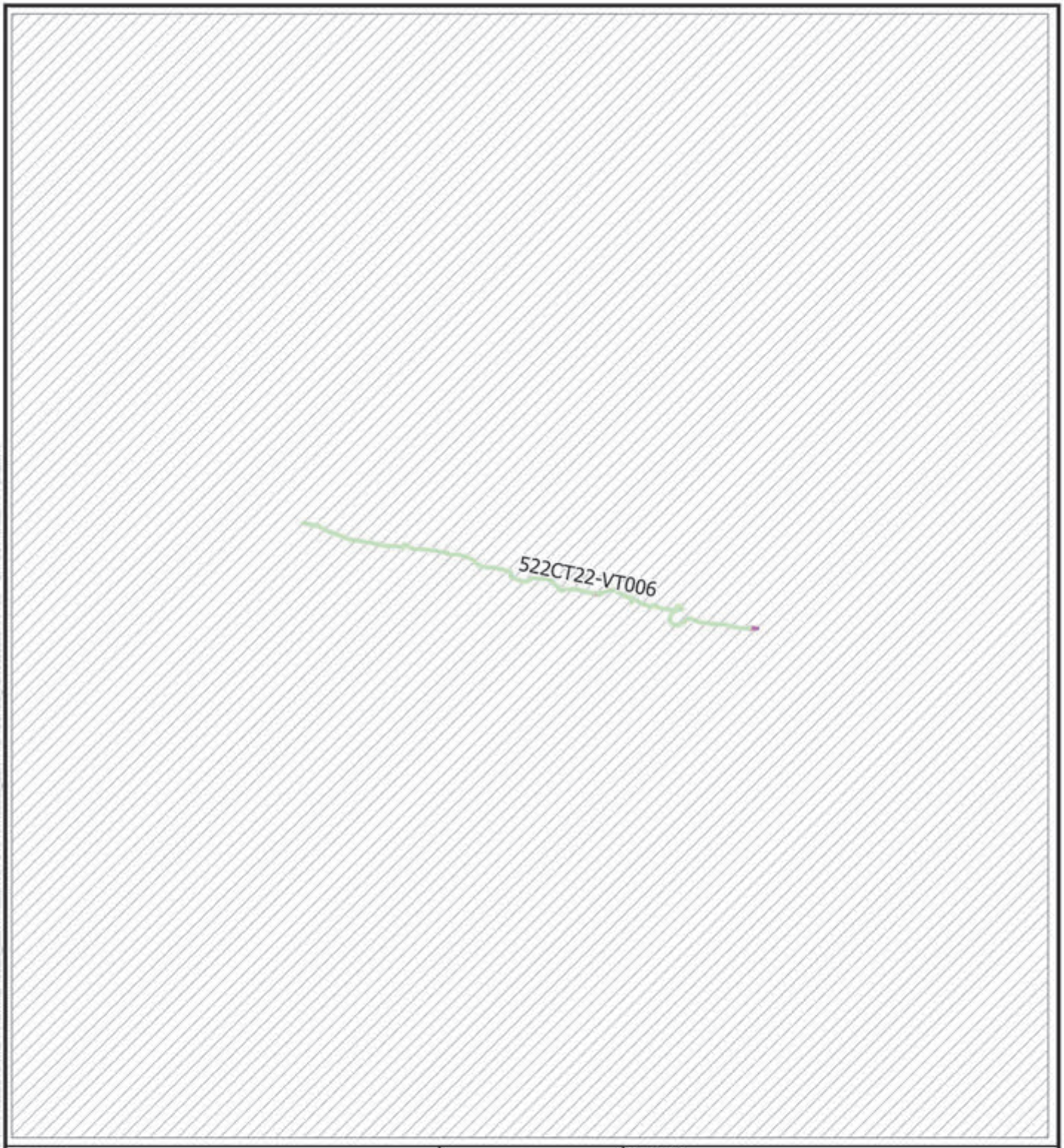
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

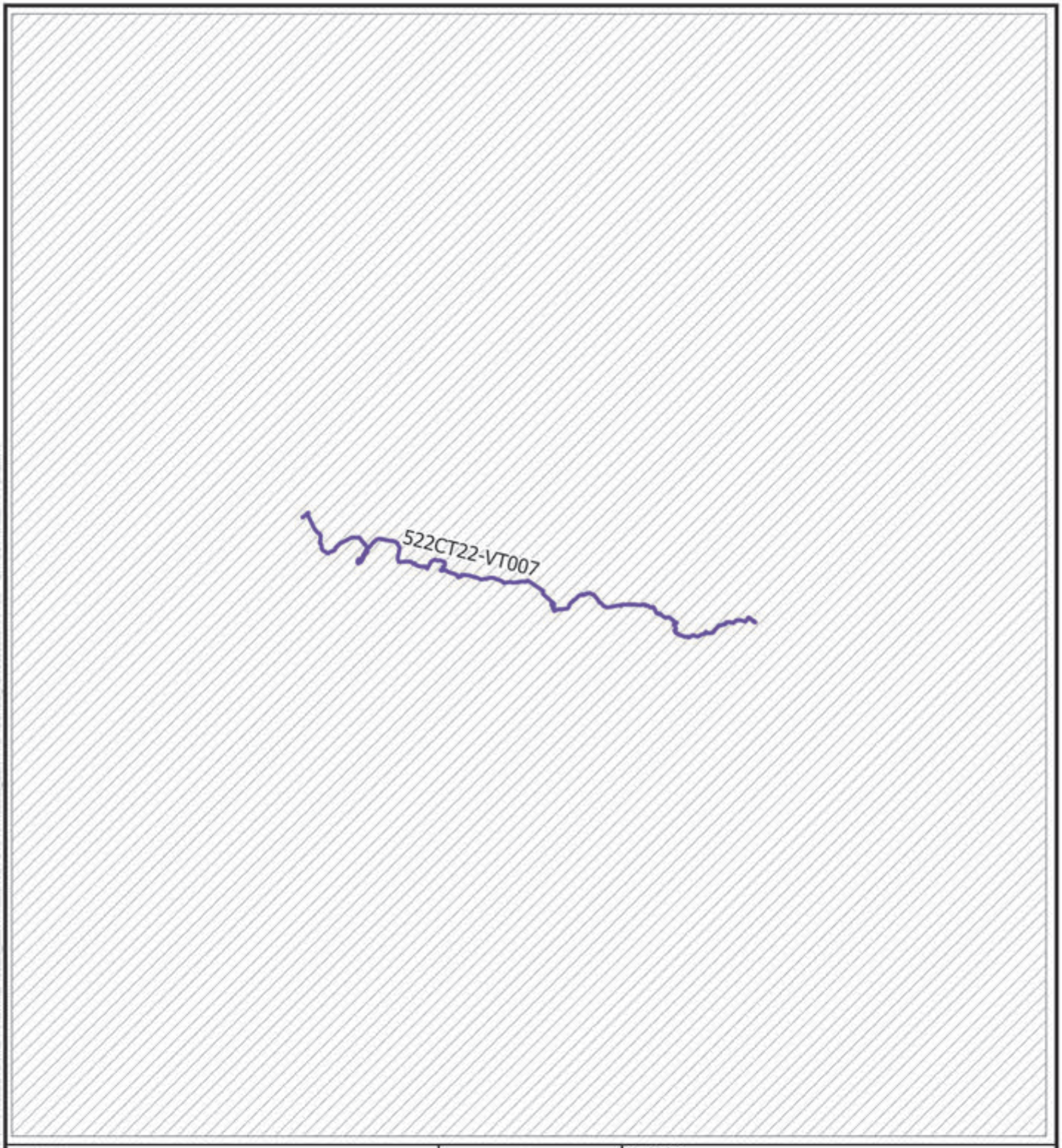
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT006	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sandy Mud

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

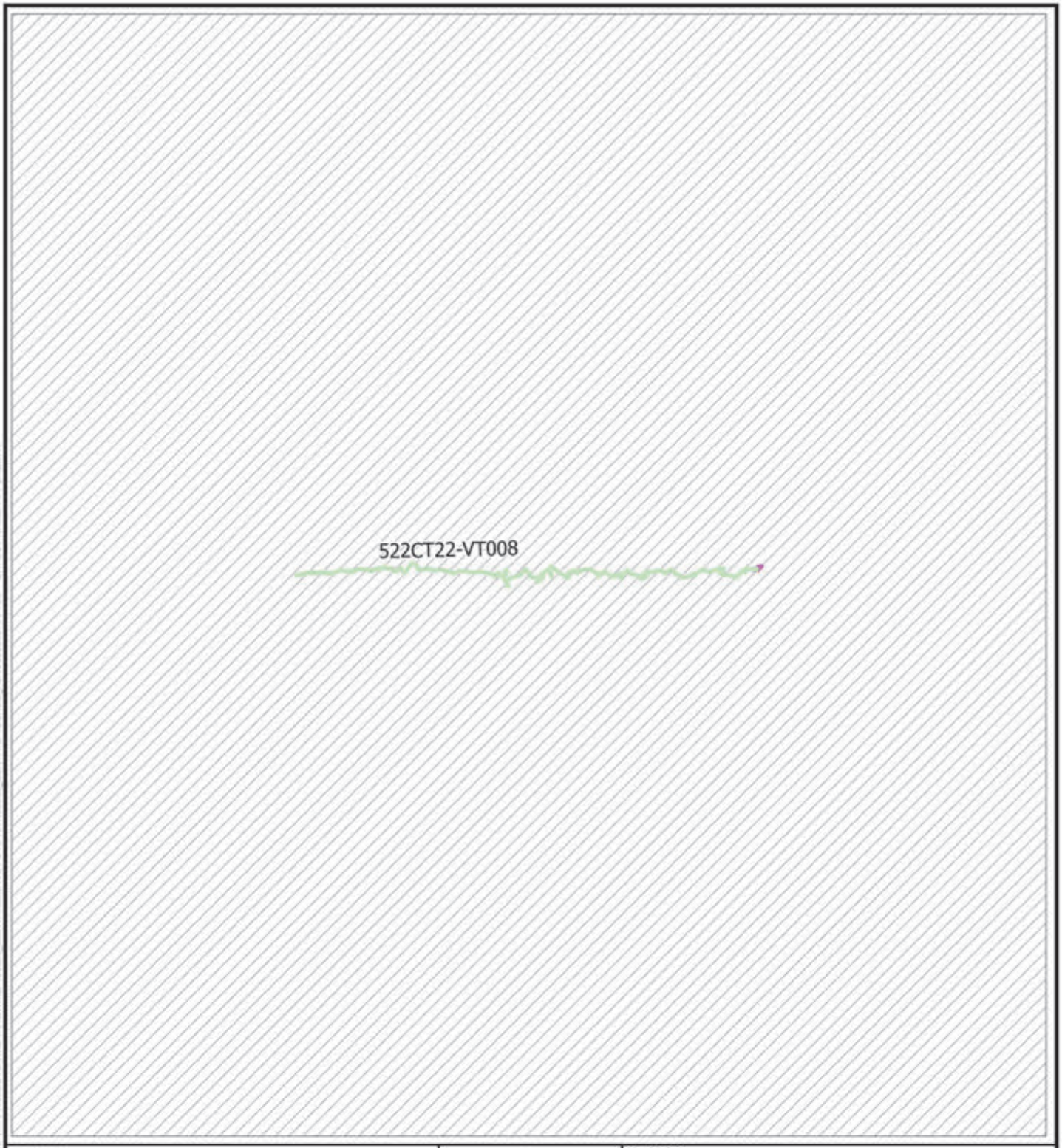
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

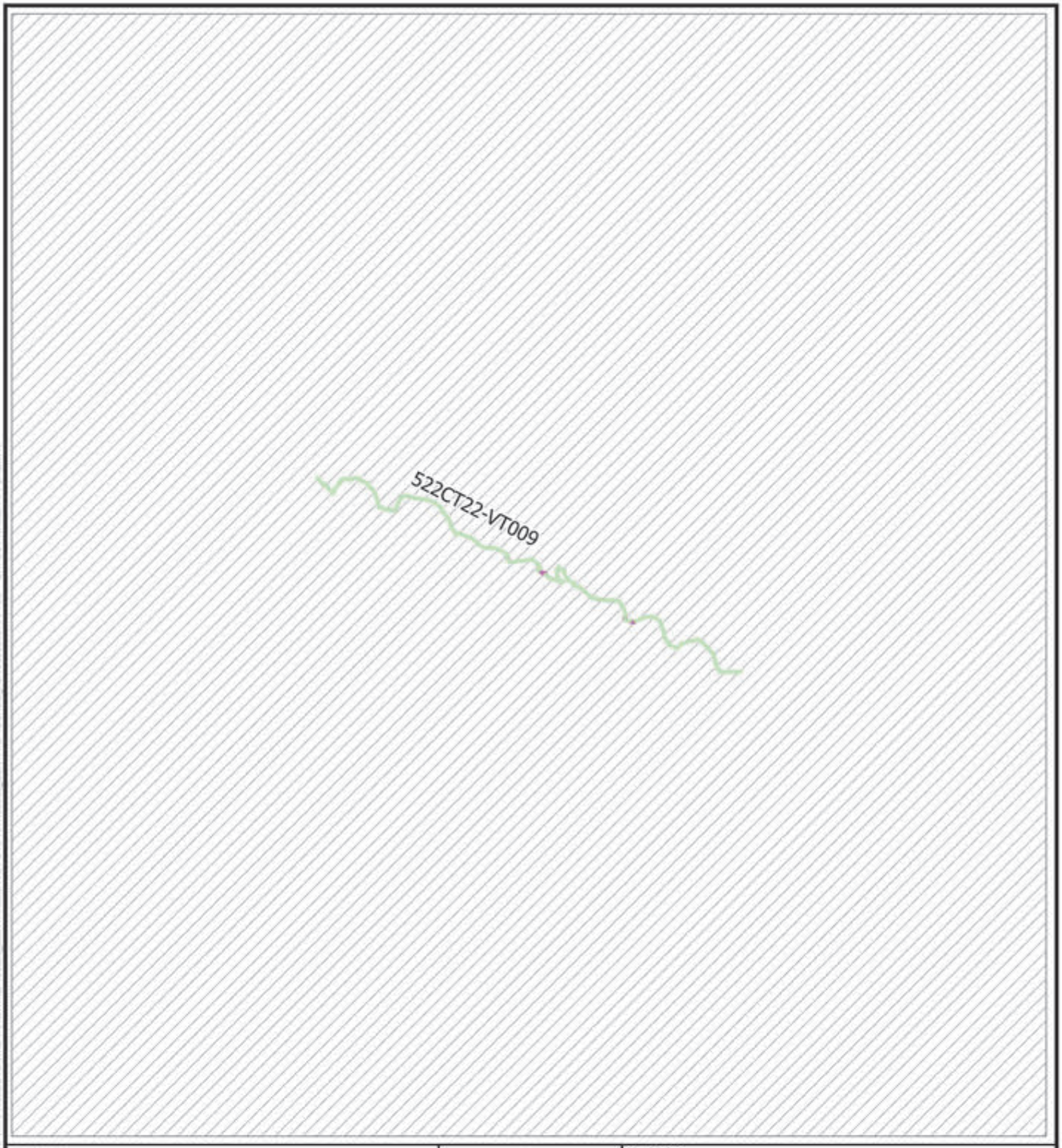
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

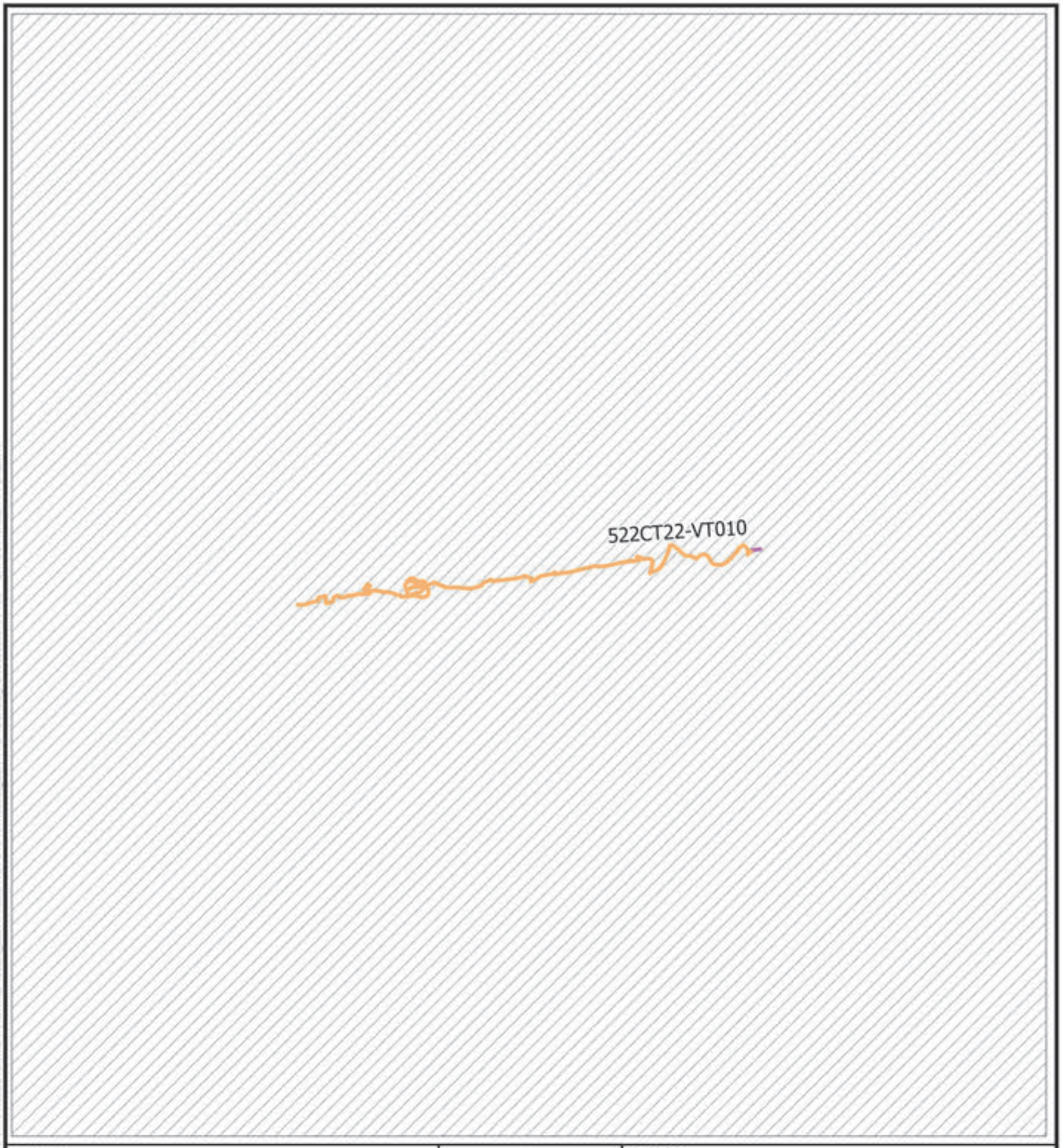
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

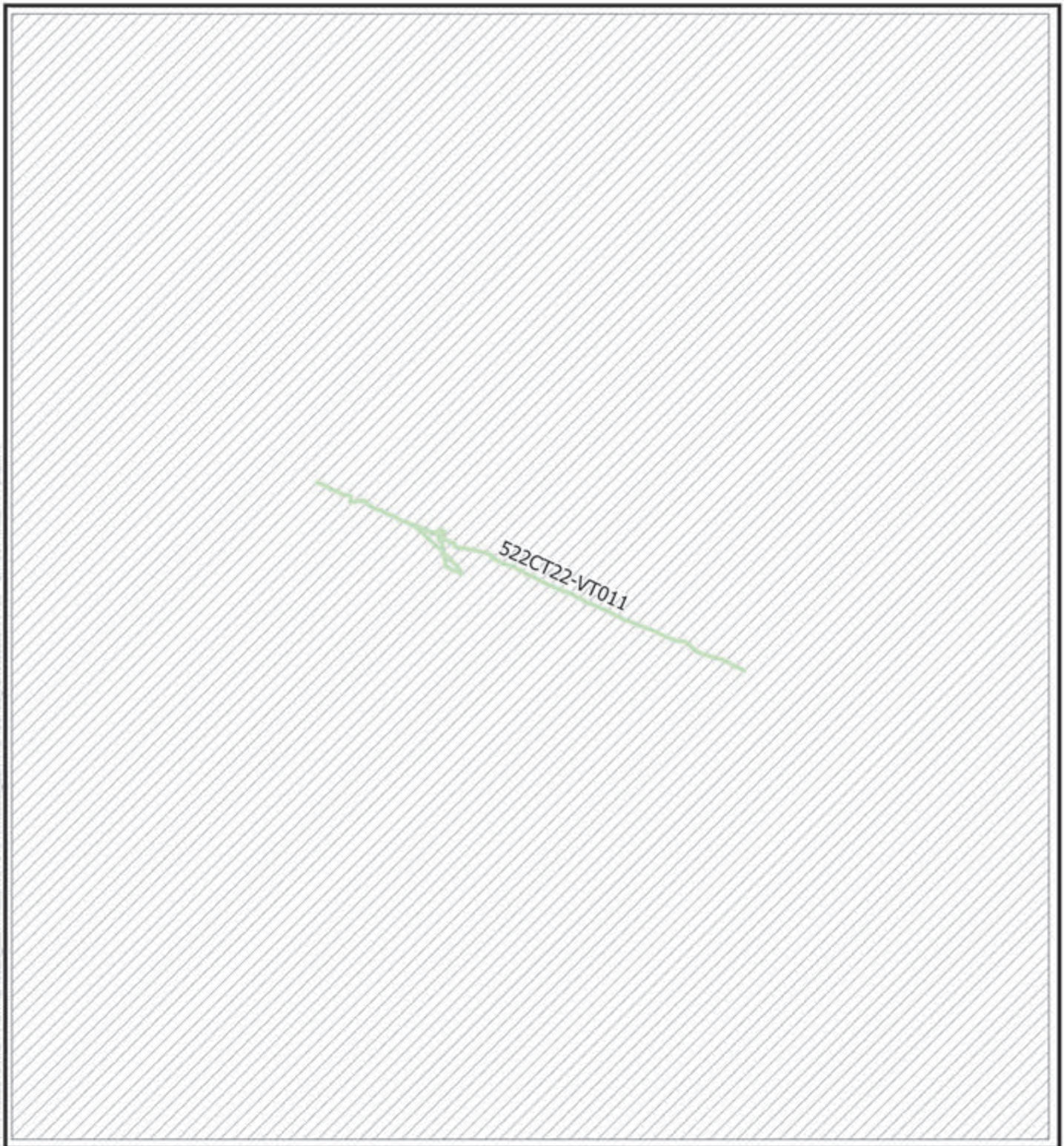
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

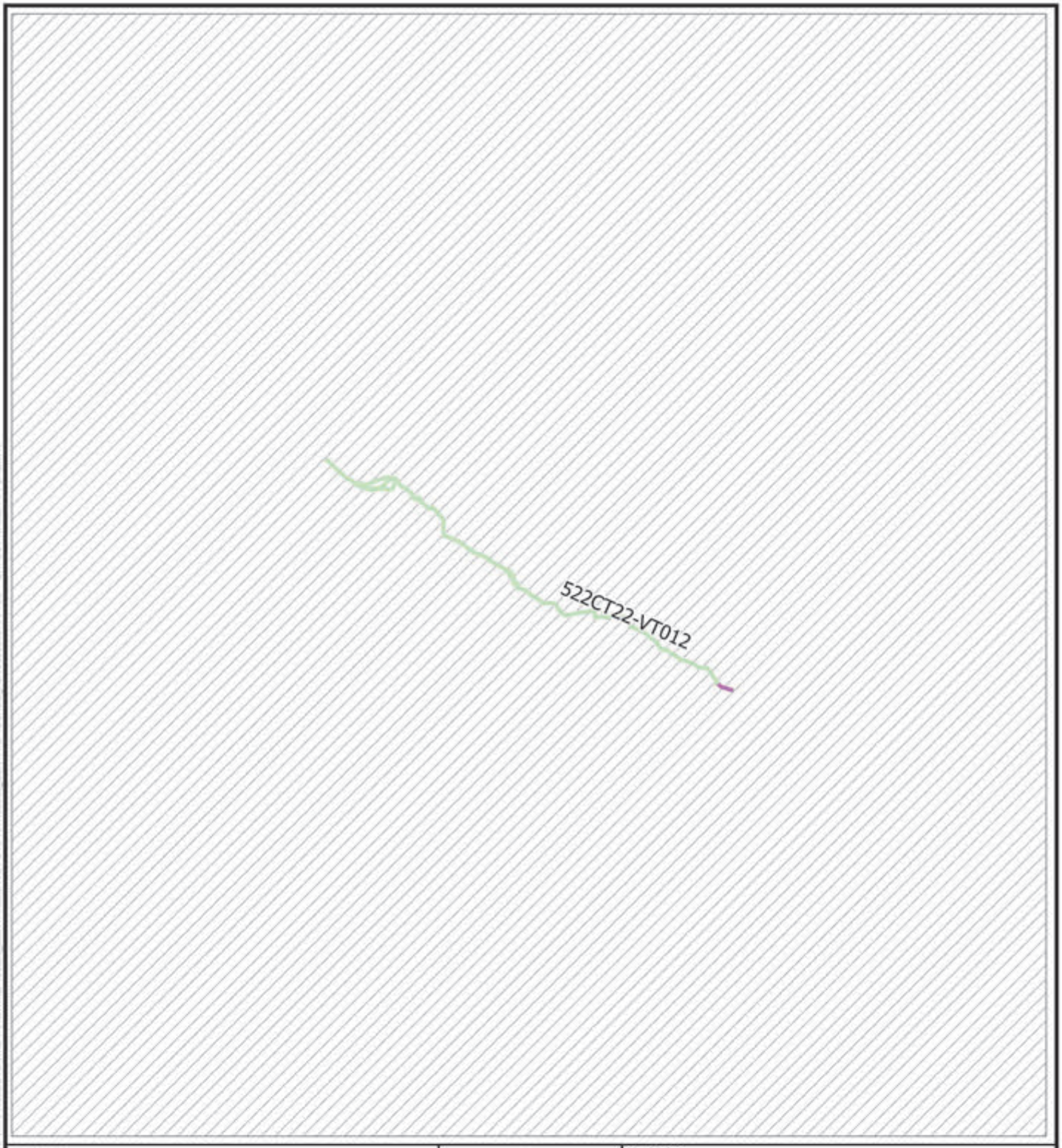
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\REVIEW\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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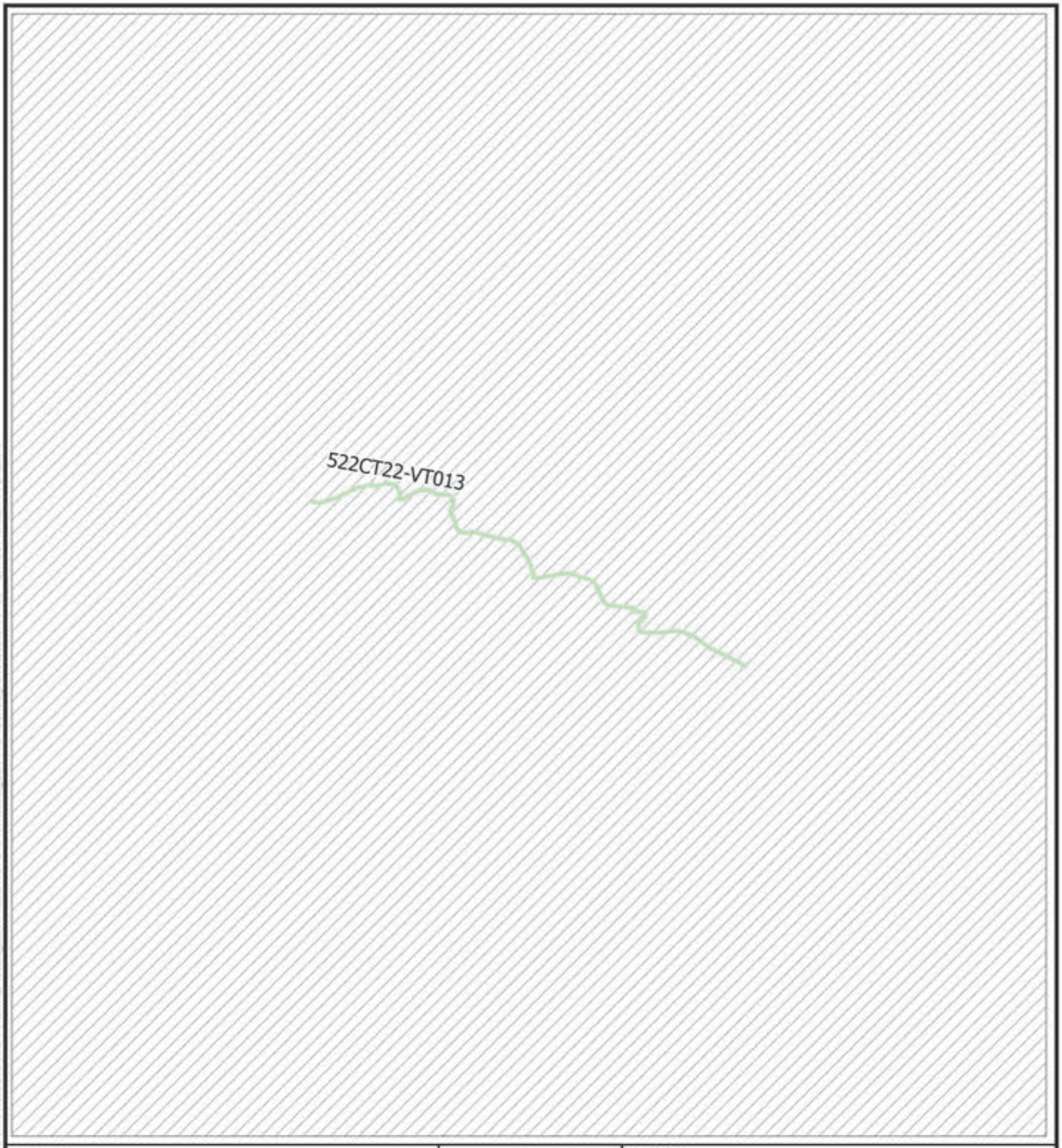


CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

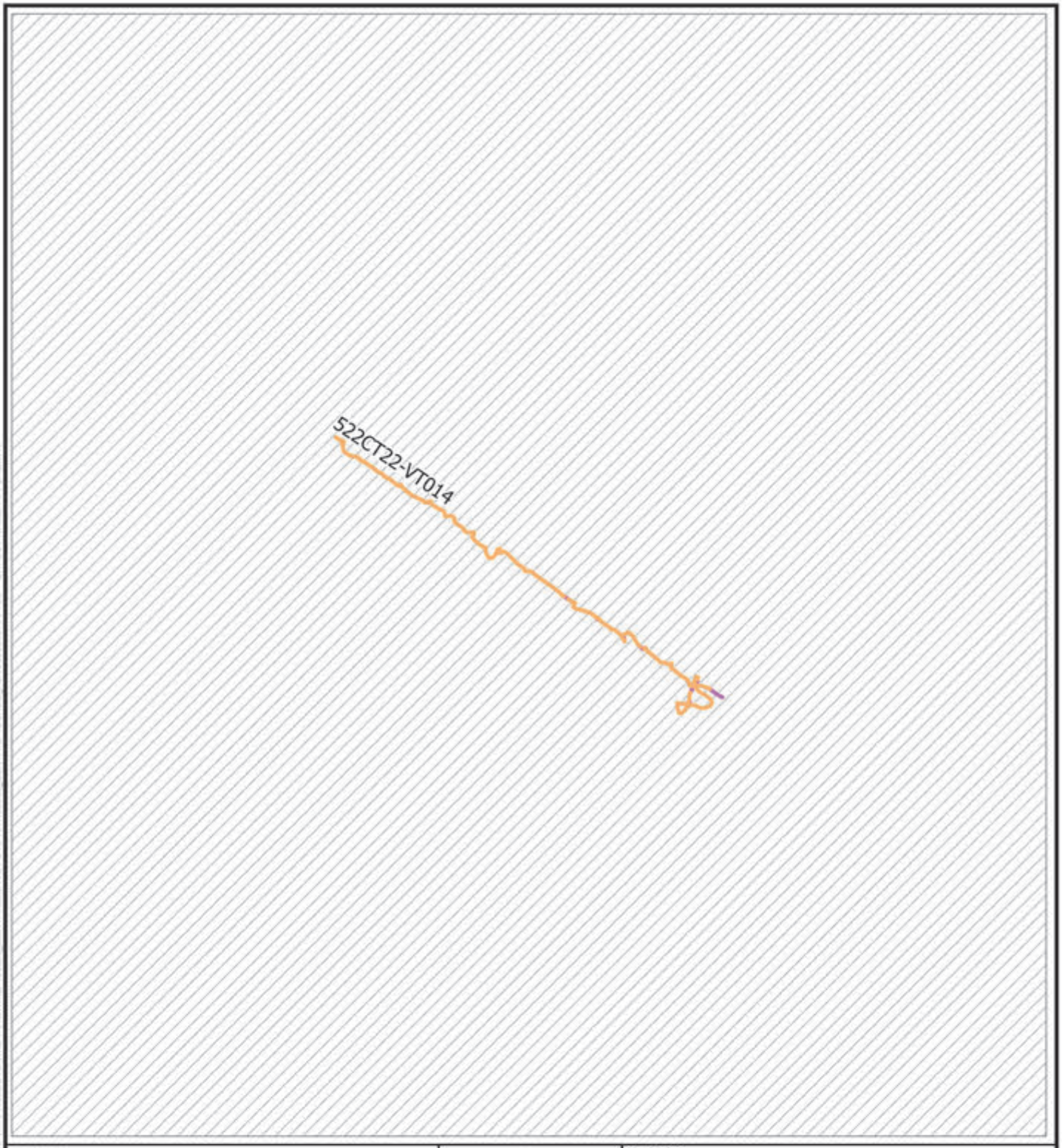
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

Uncharacterized - Visibility Compromised

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

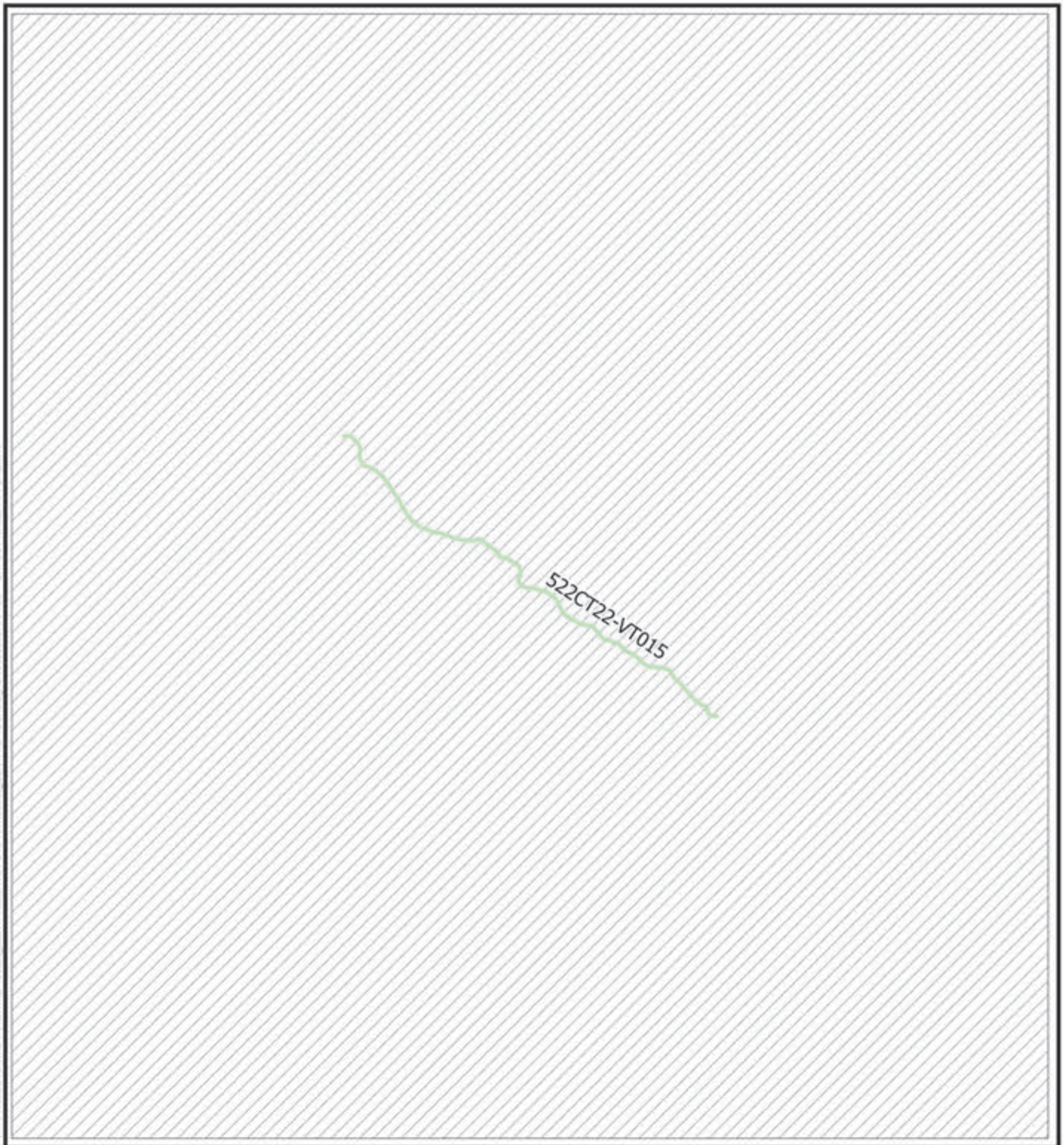
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

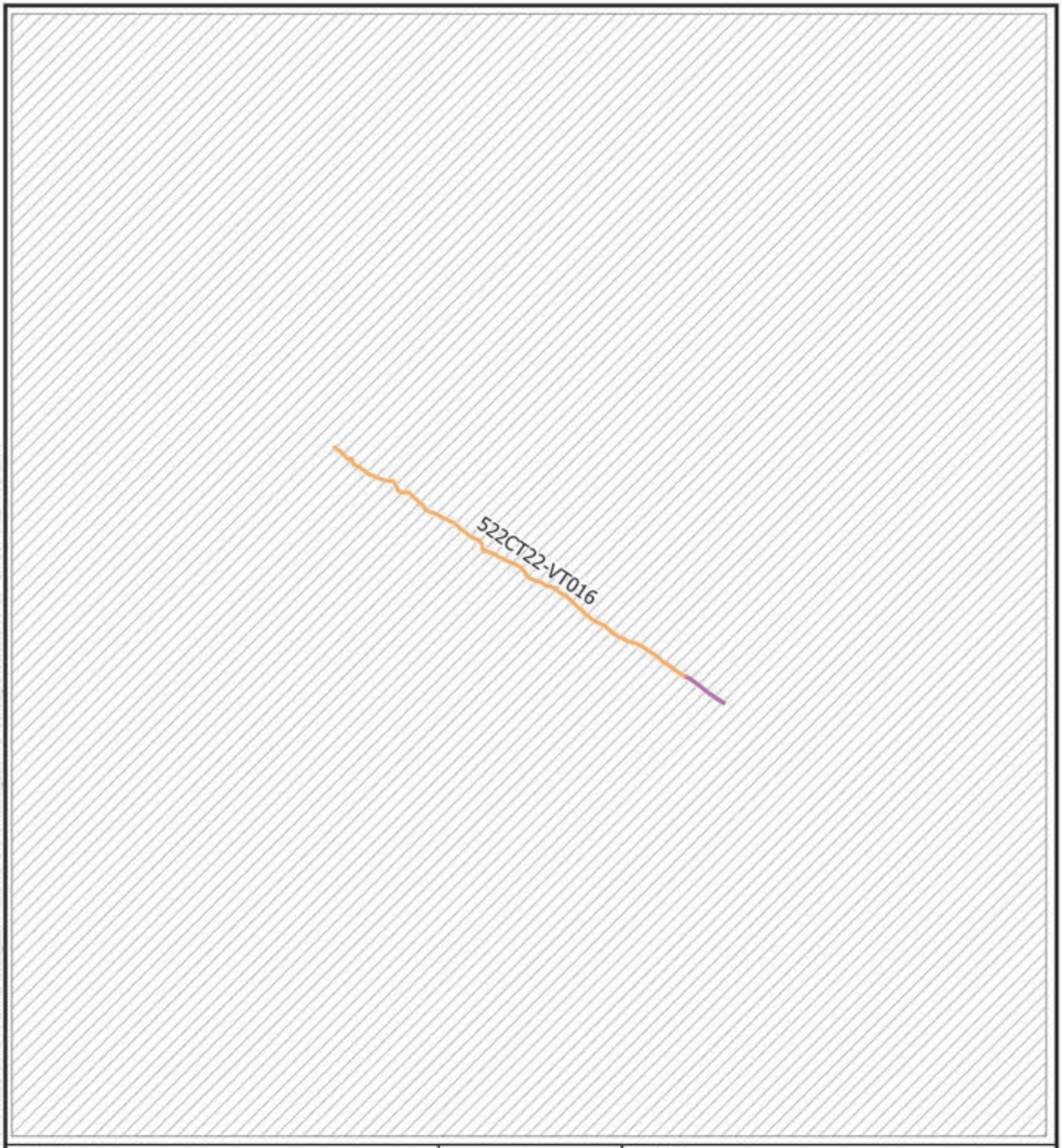
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT015

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

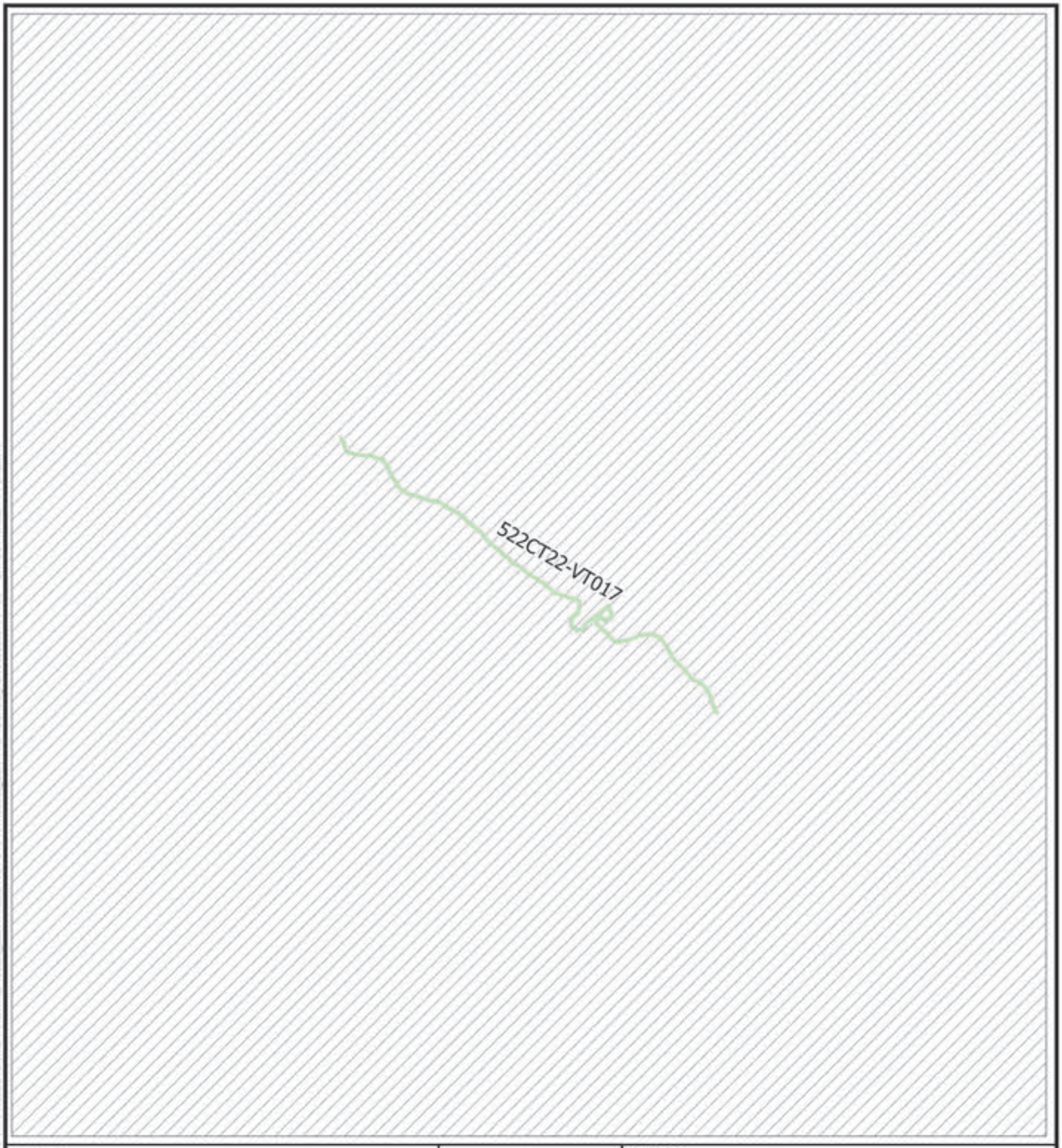
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

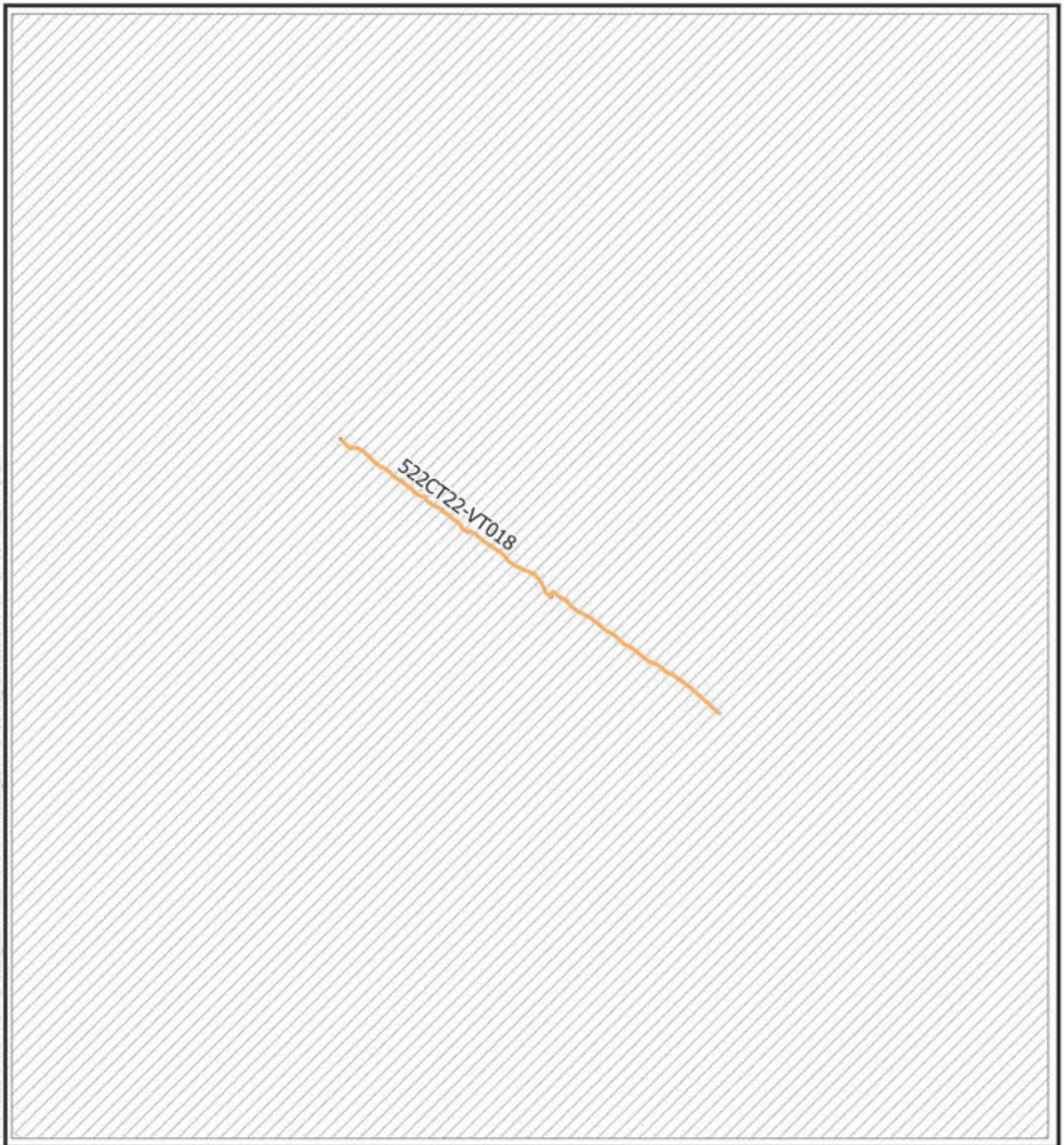
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT017	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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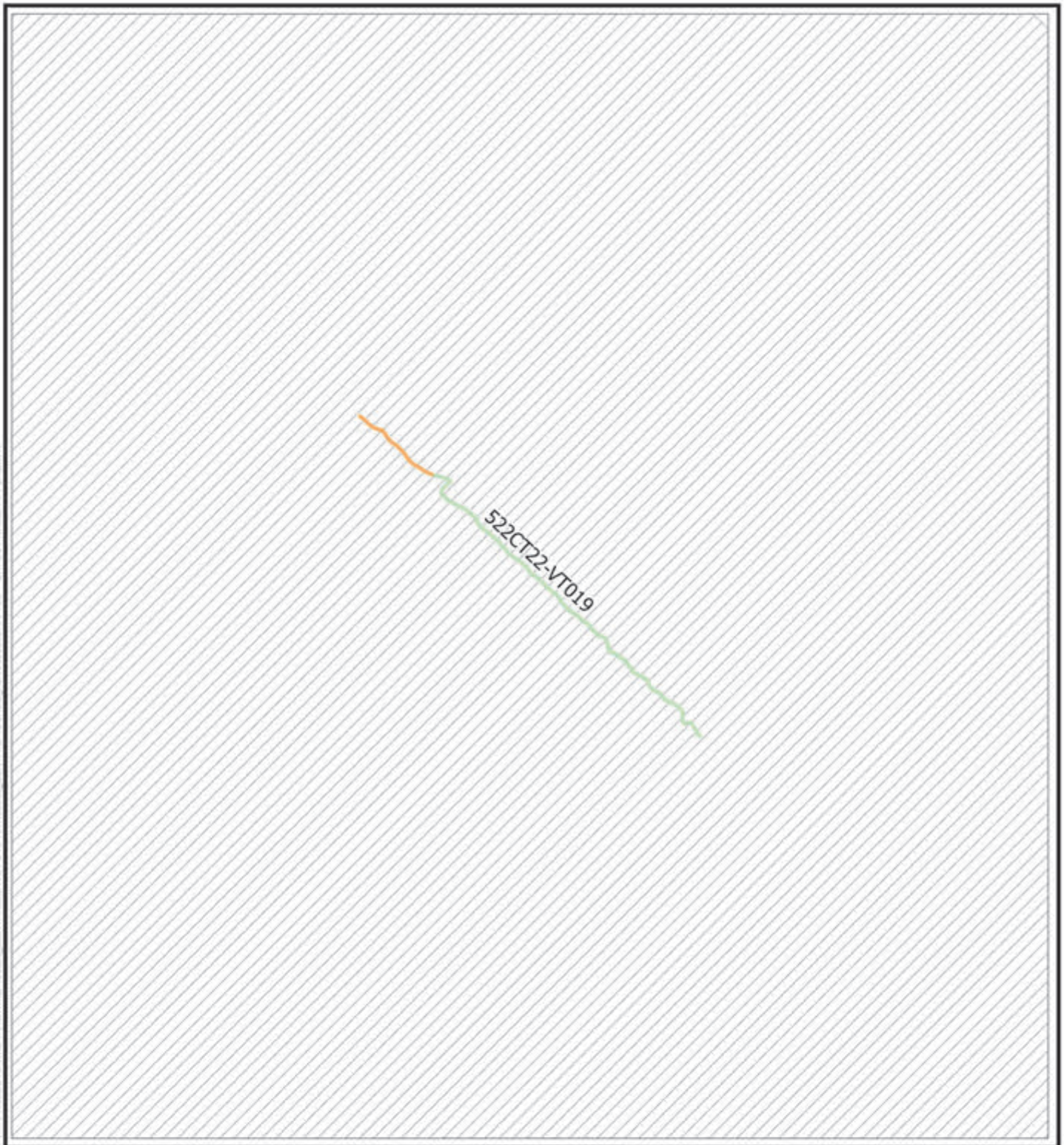


CT Offshore Export Cable Corridor
Muddy Sand
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

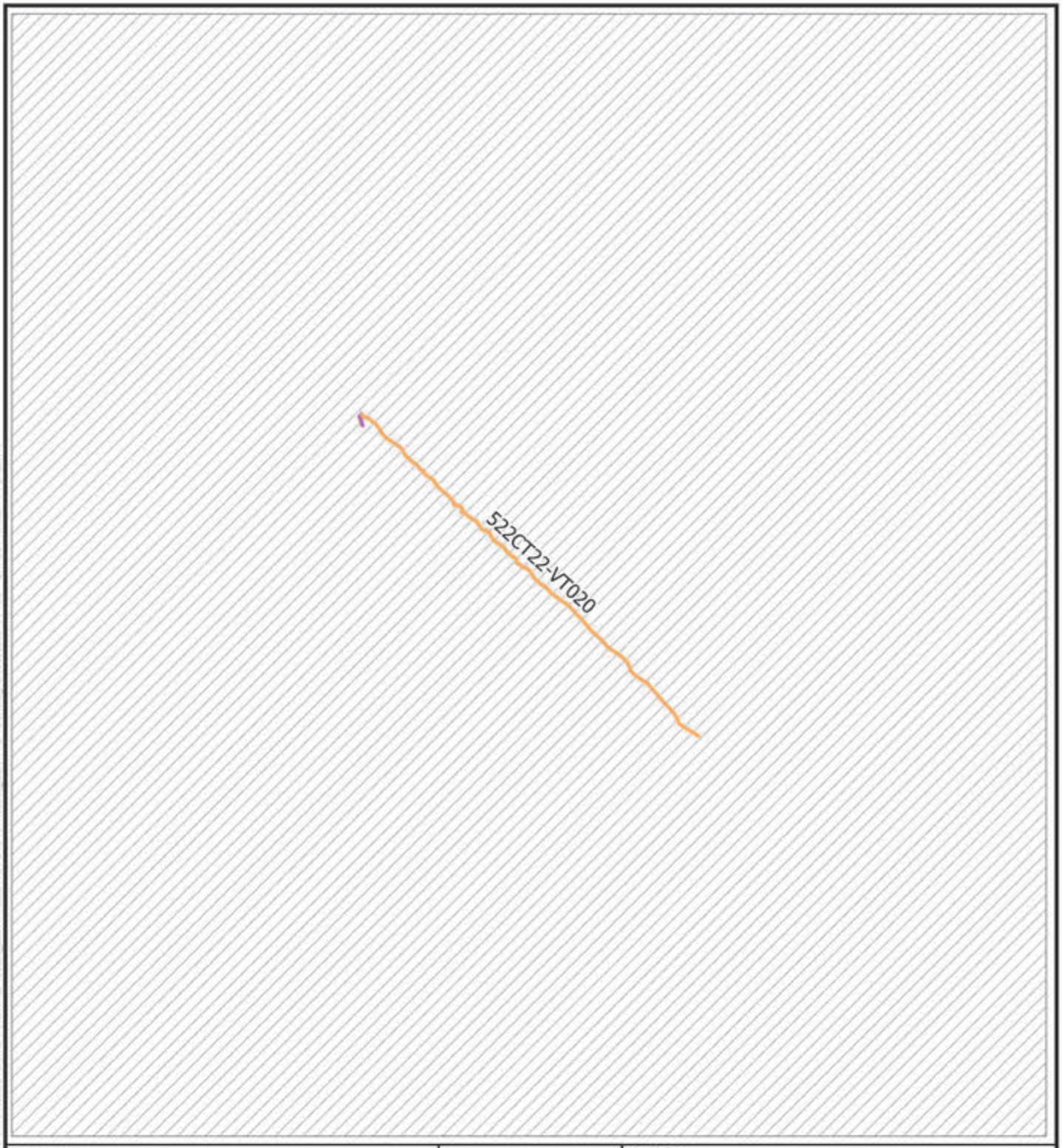
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT019	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

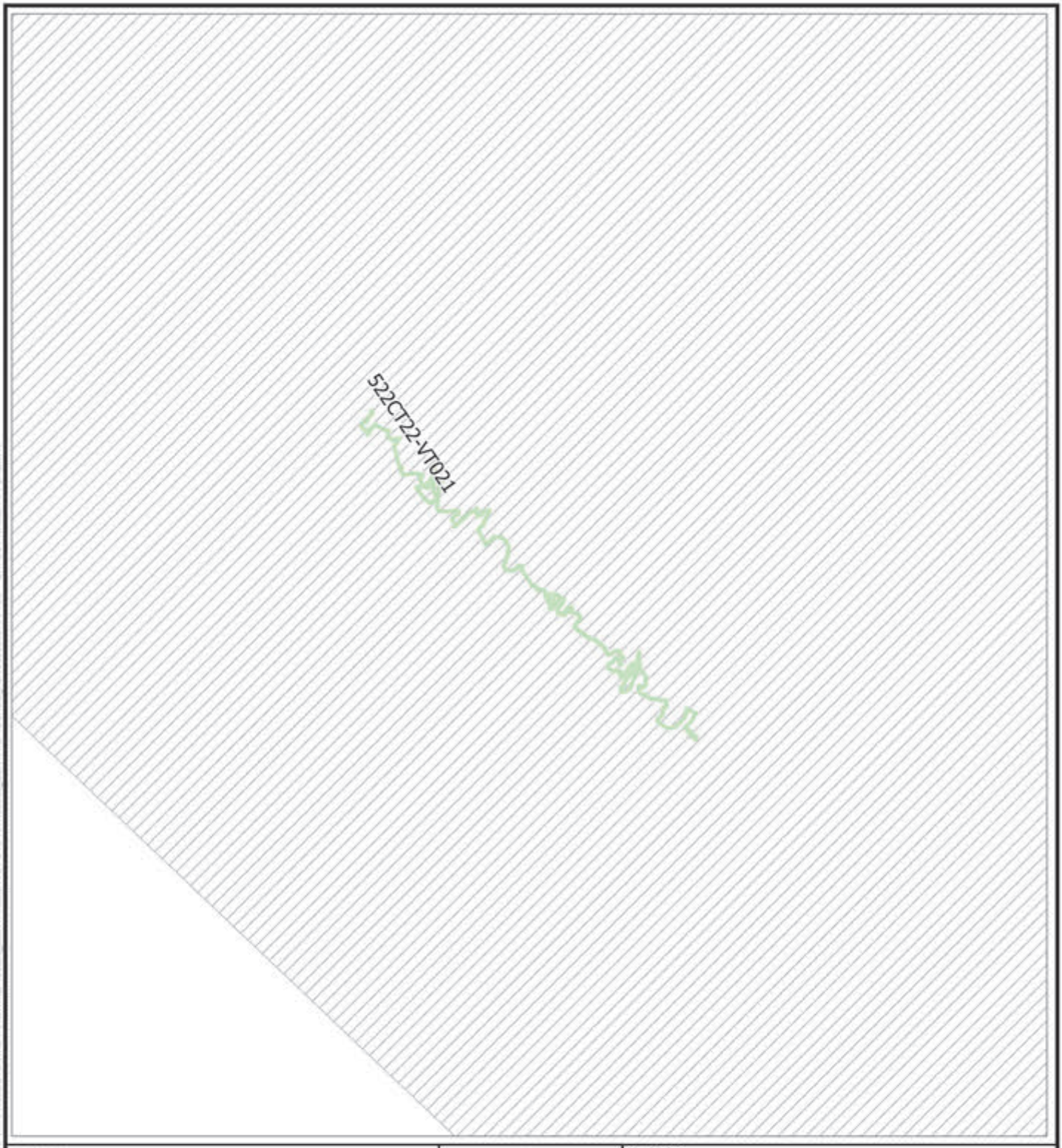
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT020	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEG\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

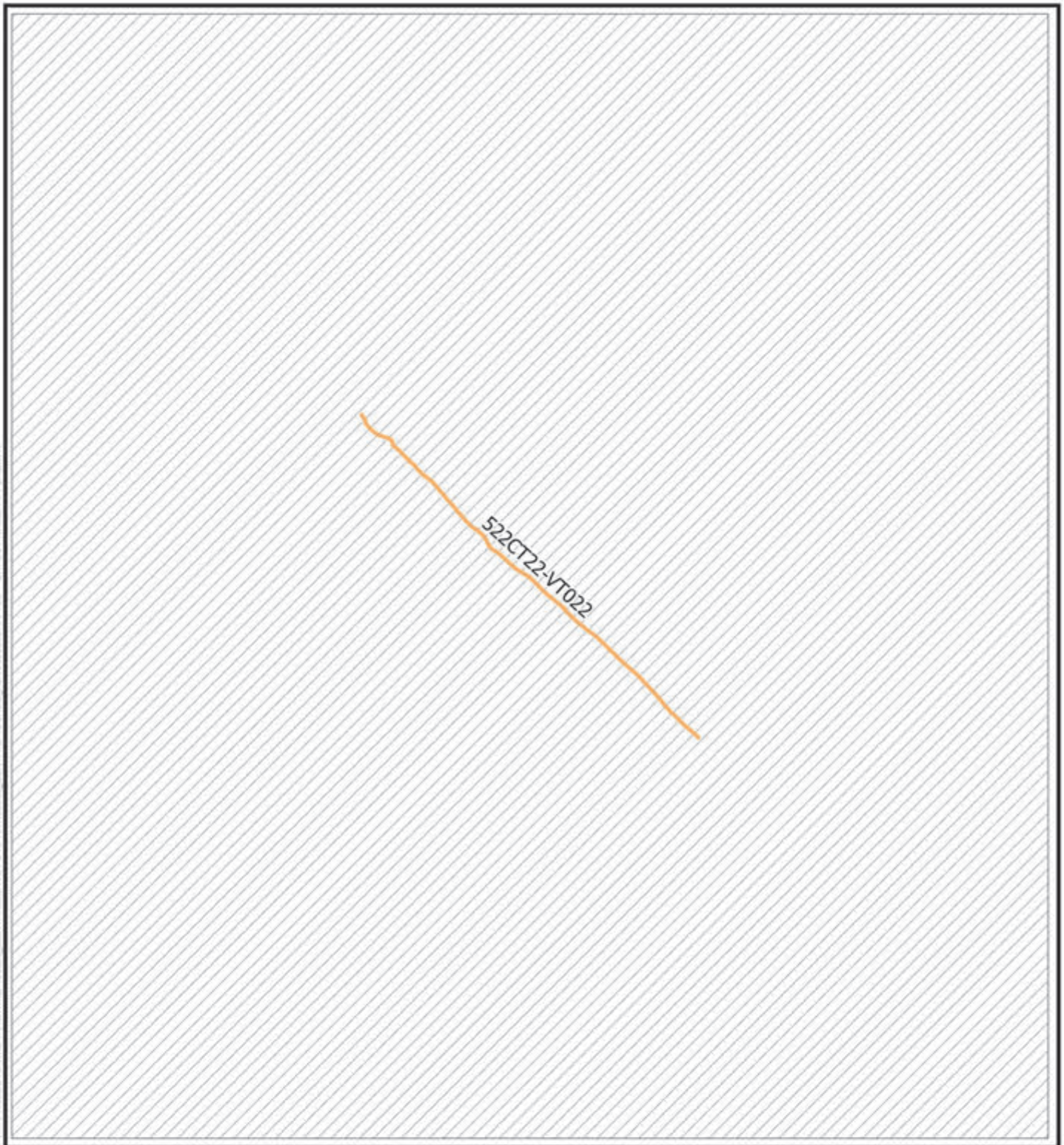
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT021

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT022

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

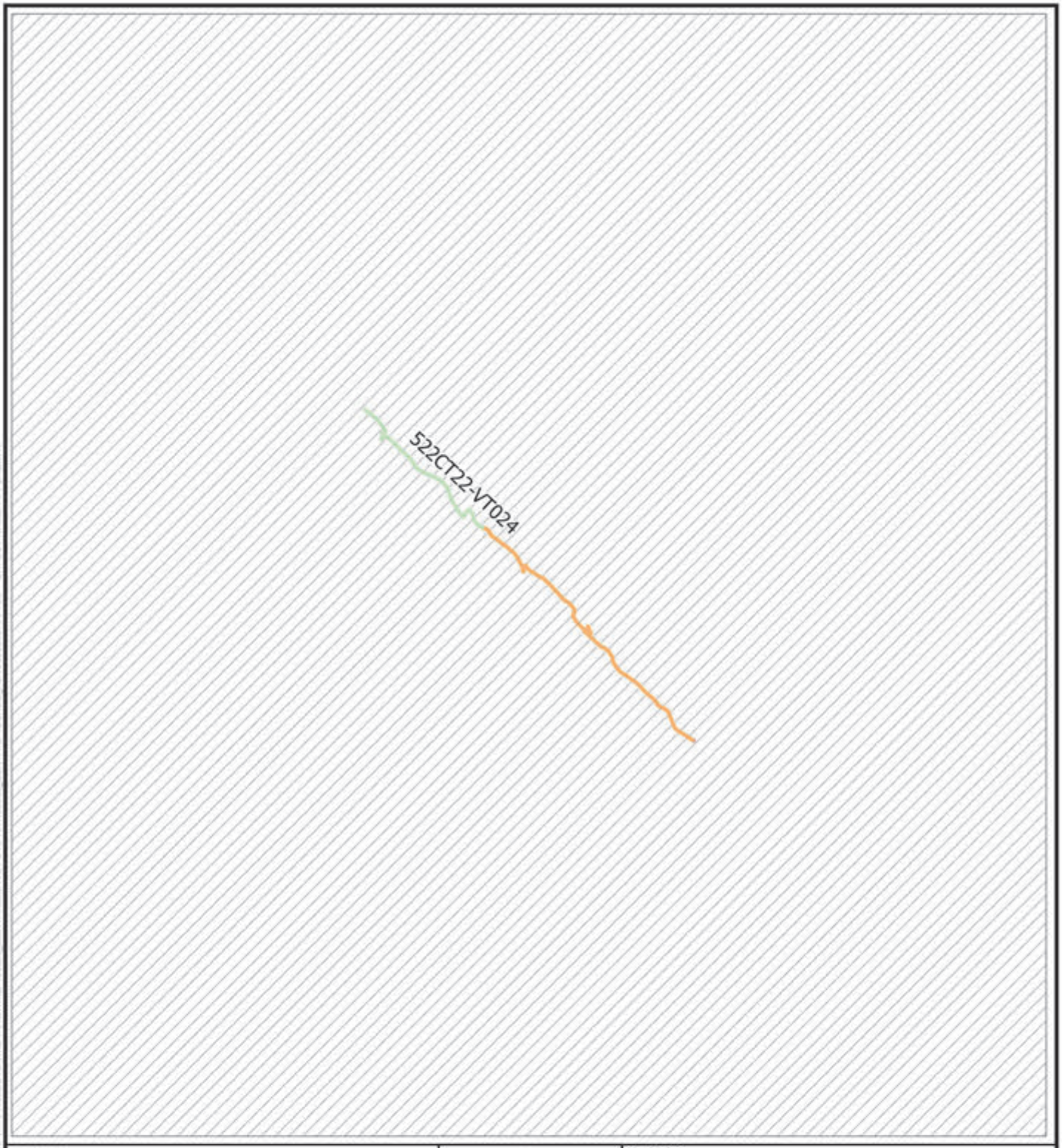
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT023

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

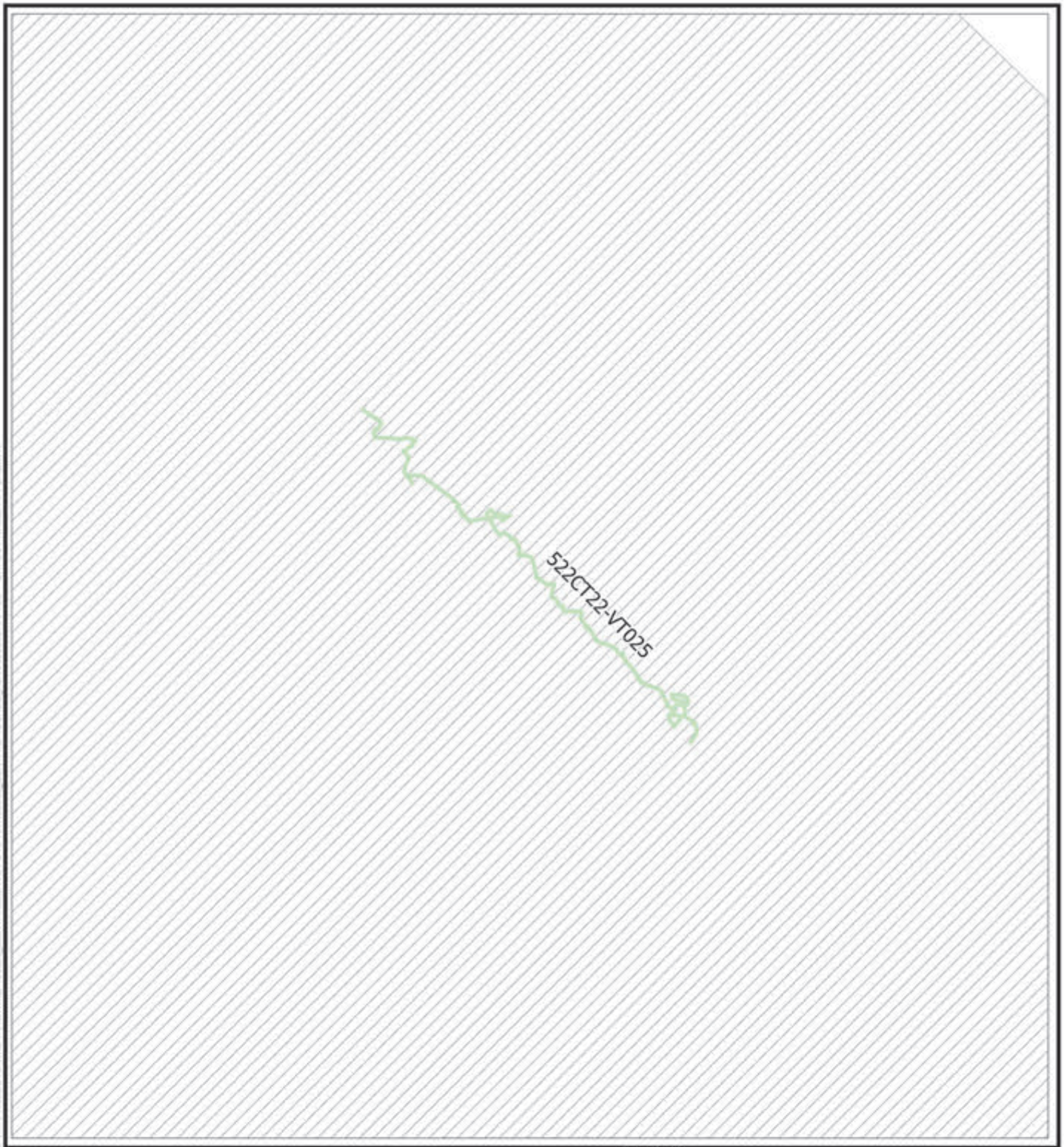
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT024

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

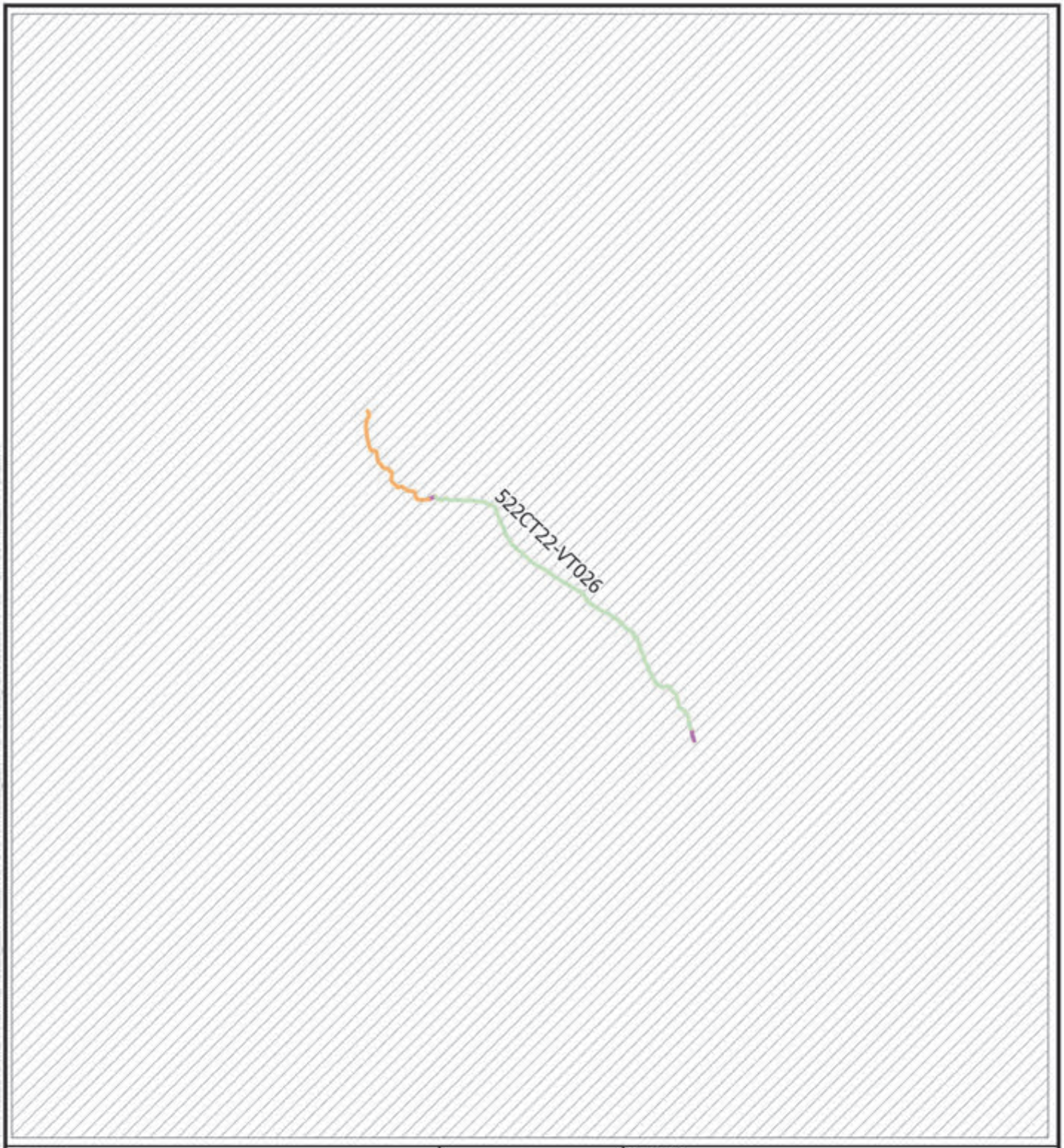
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT025

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

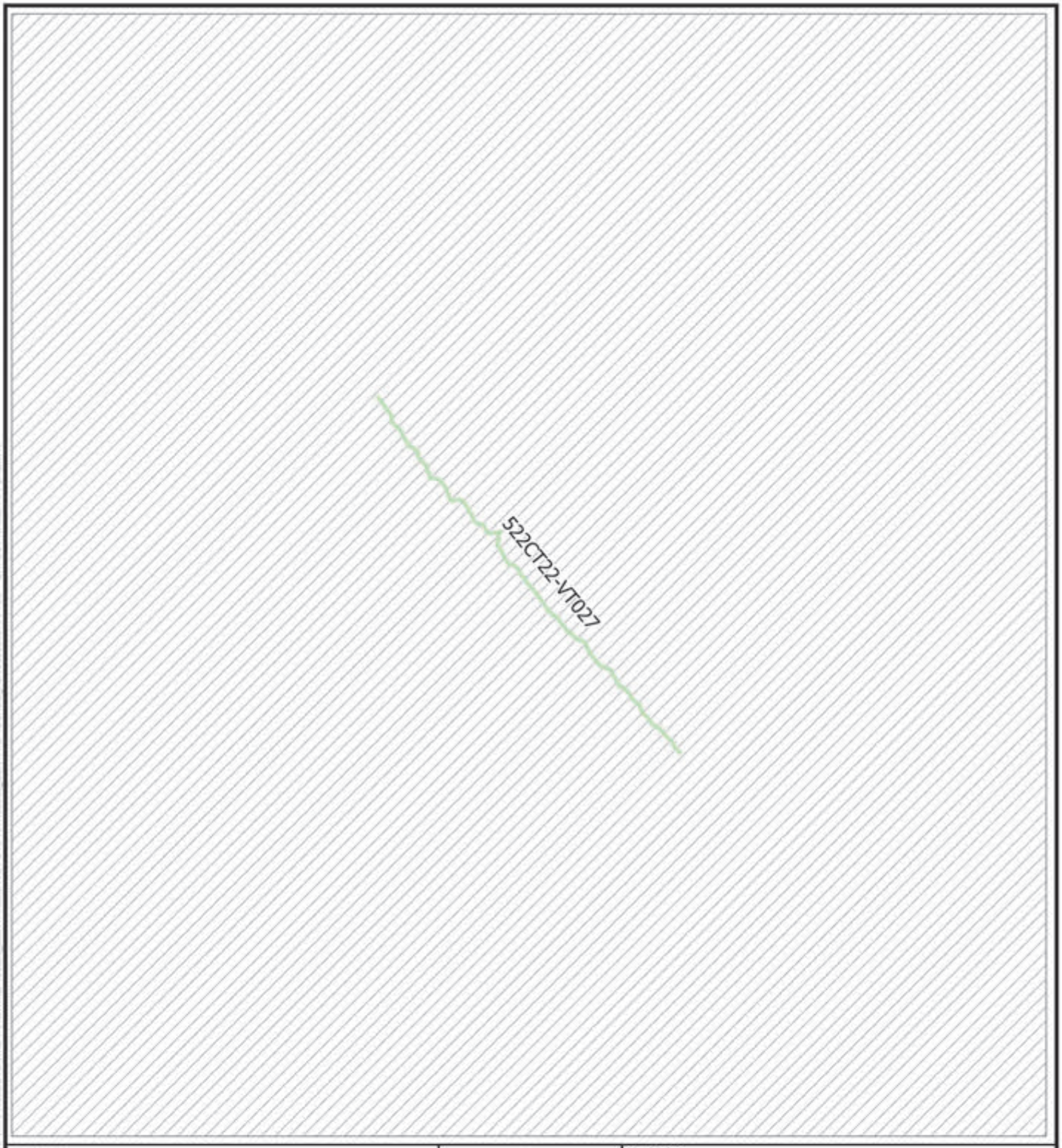
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT026

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

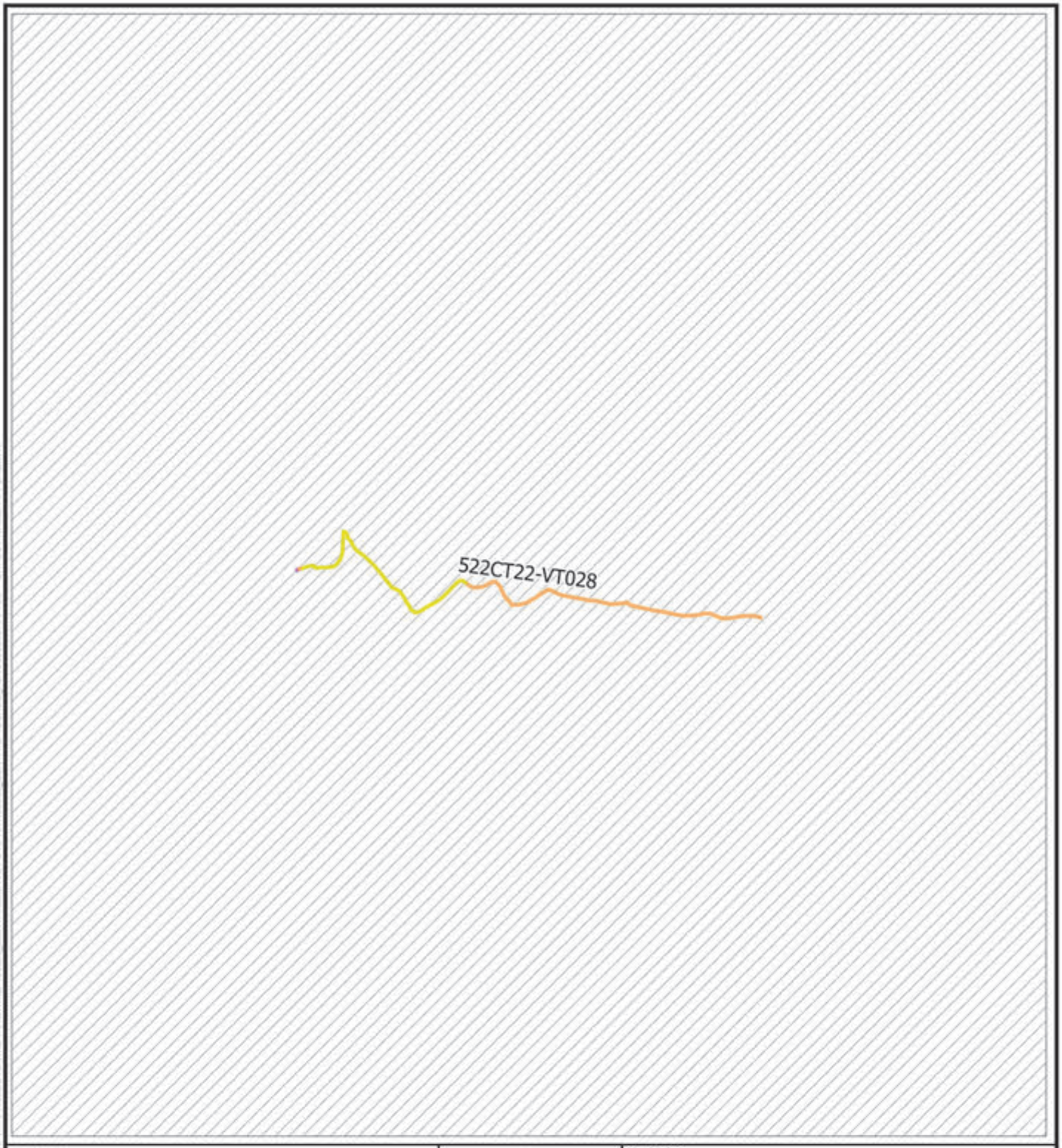
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT027

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

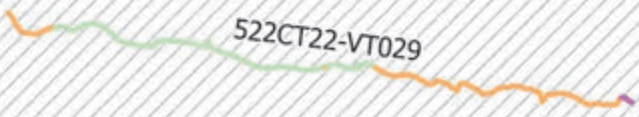
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT028

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

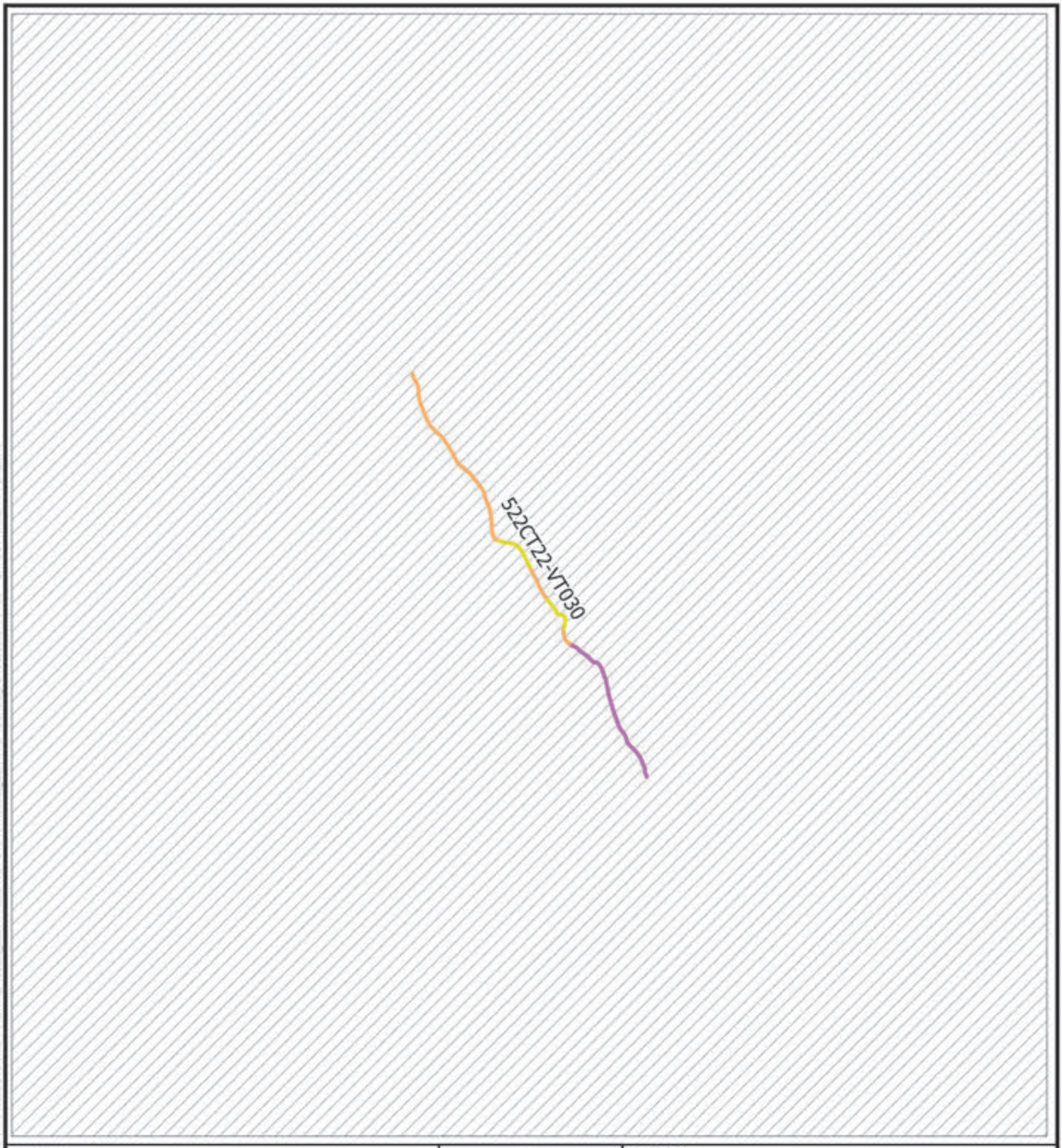
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT029

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

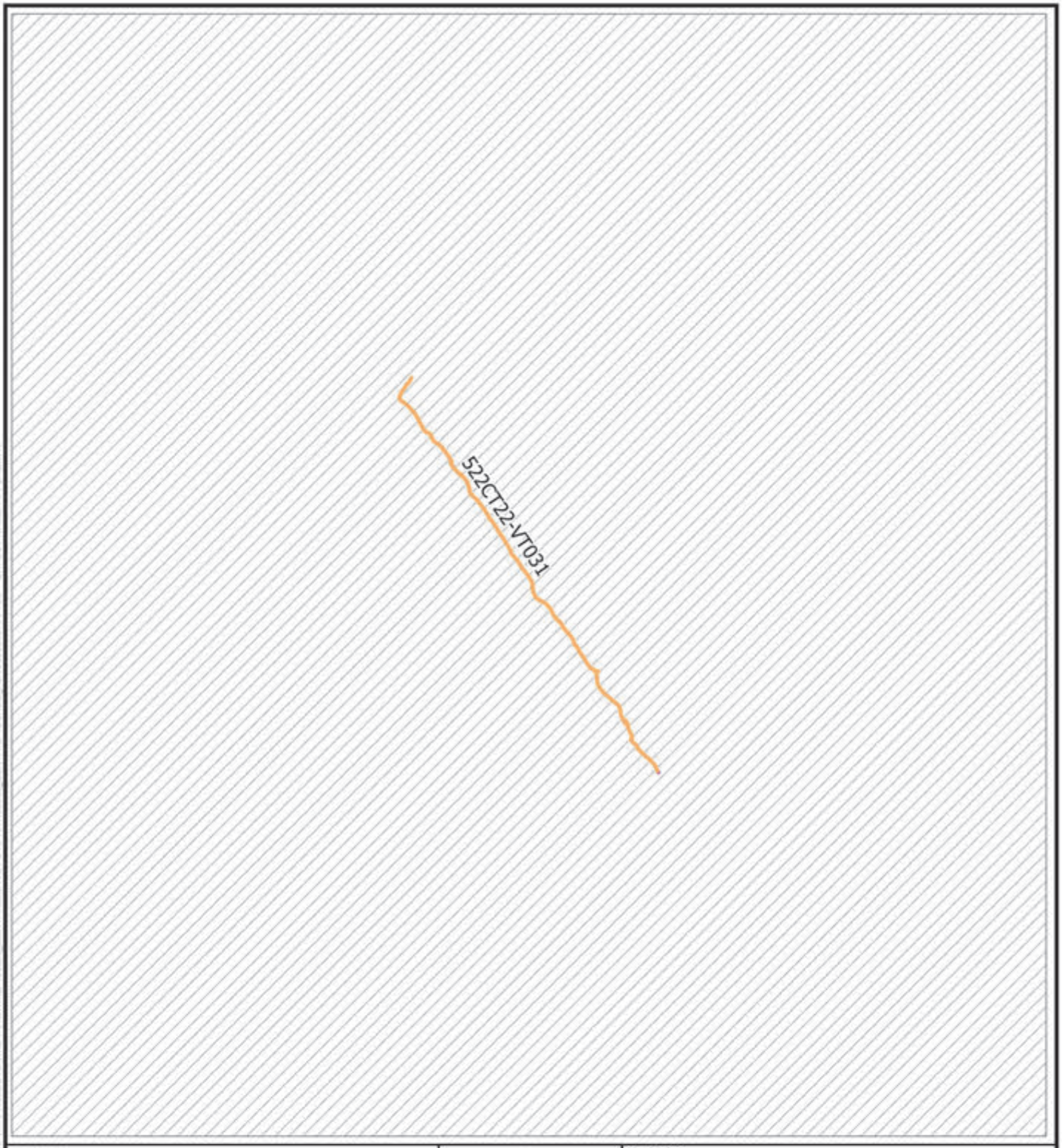
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT030	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

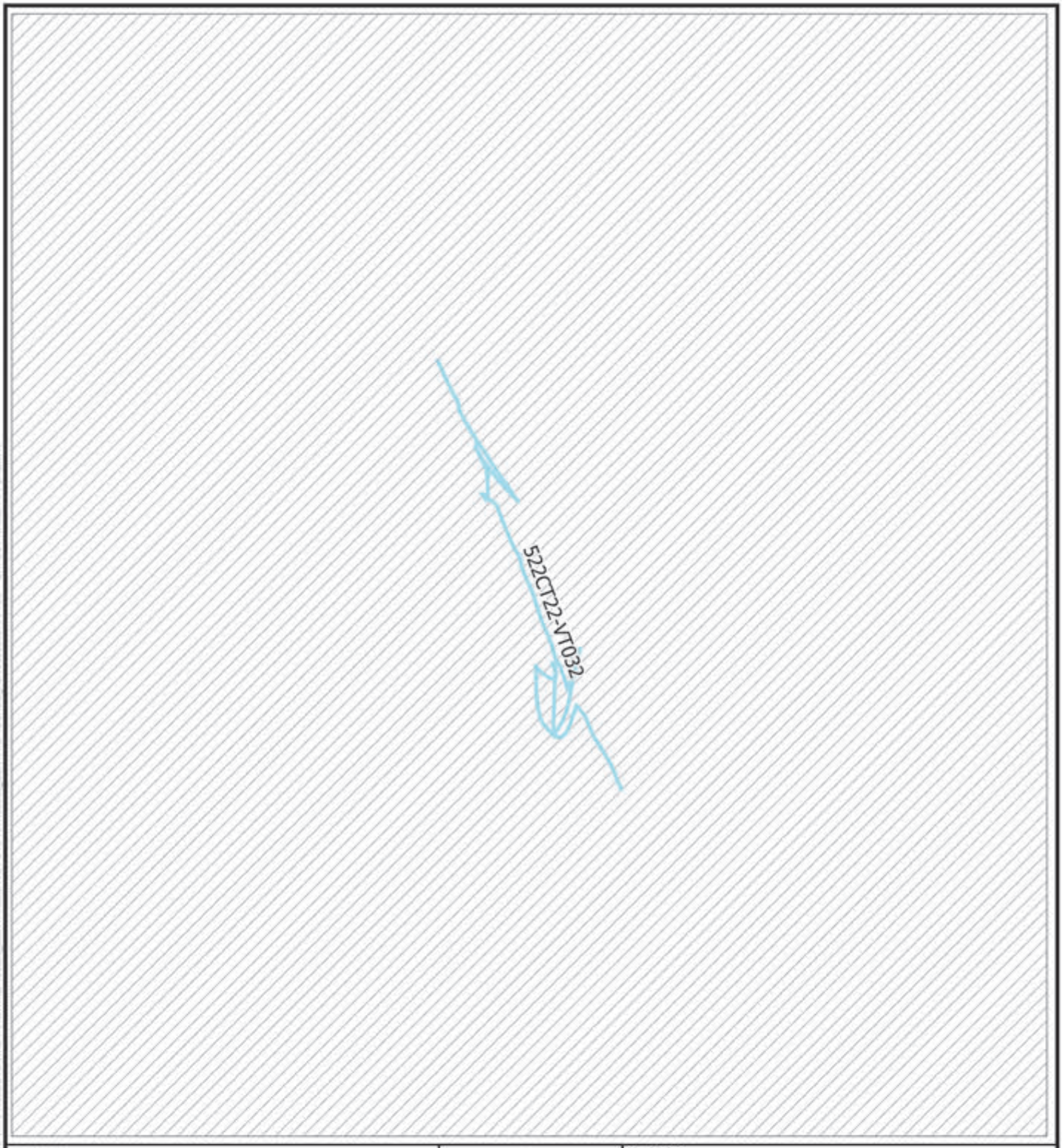
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT031	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Gravelly

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT032

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

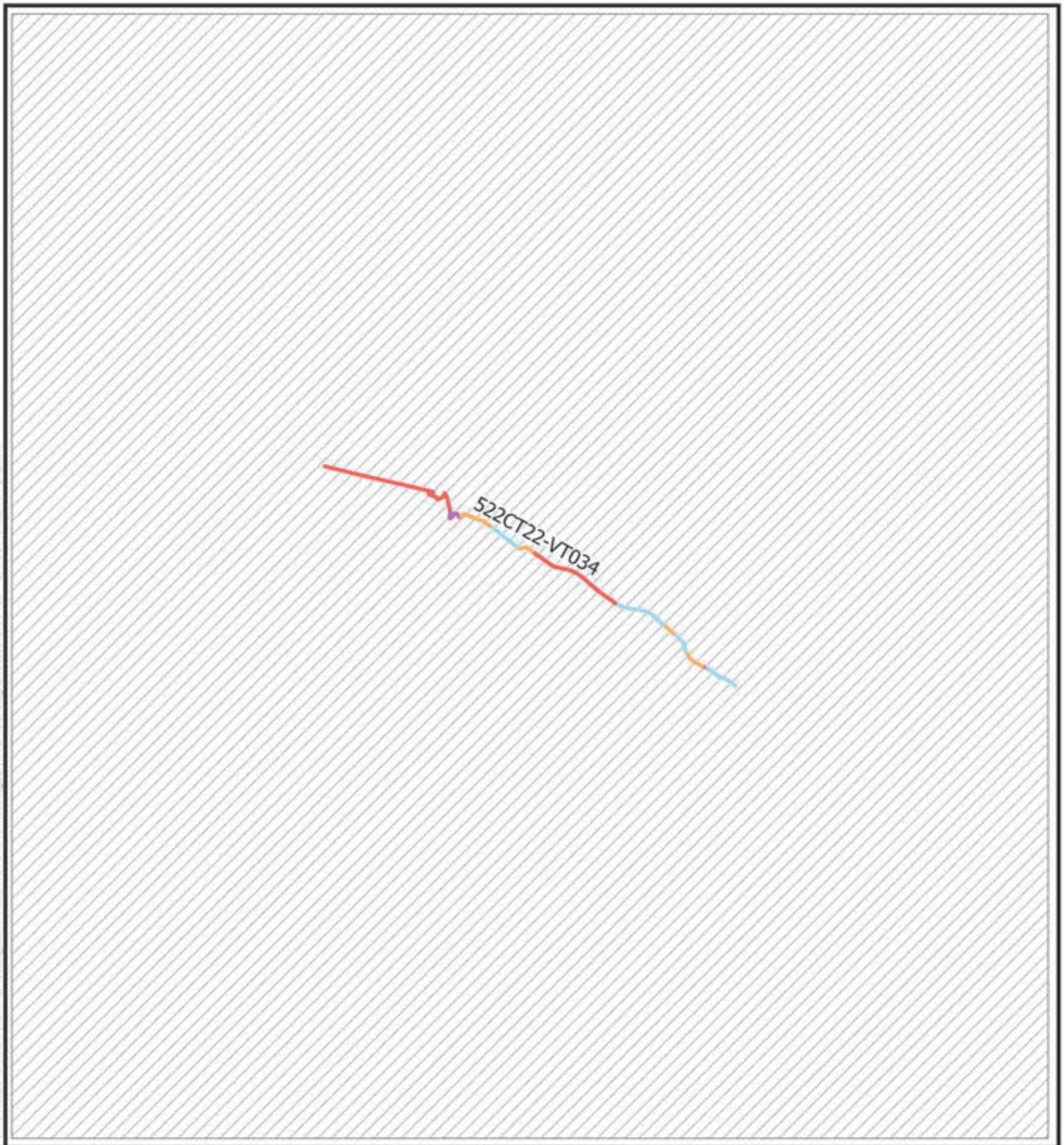
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT033	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

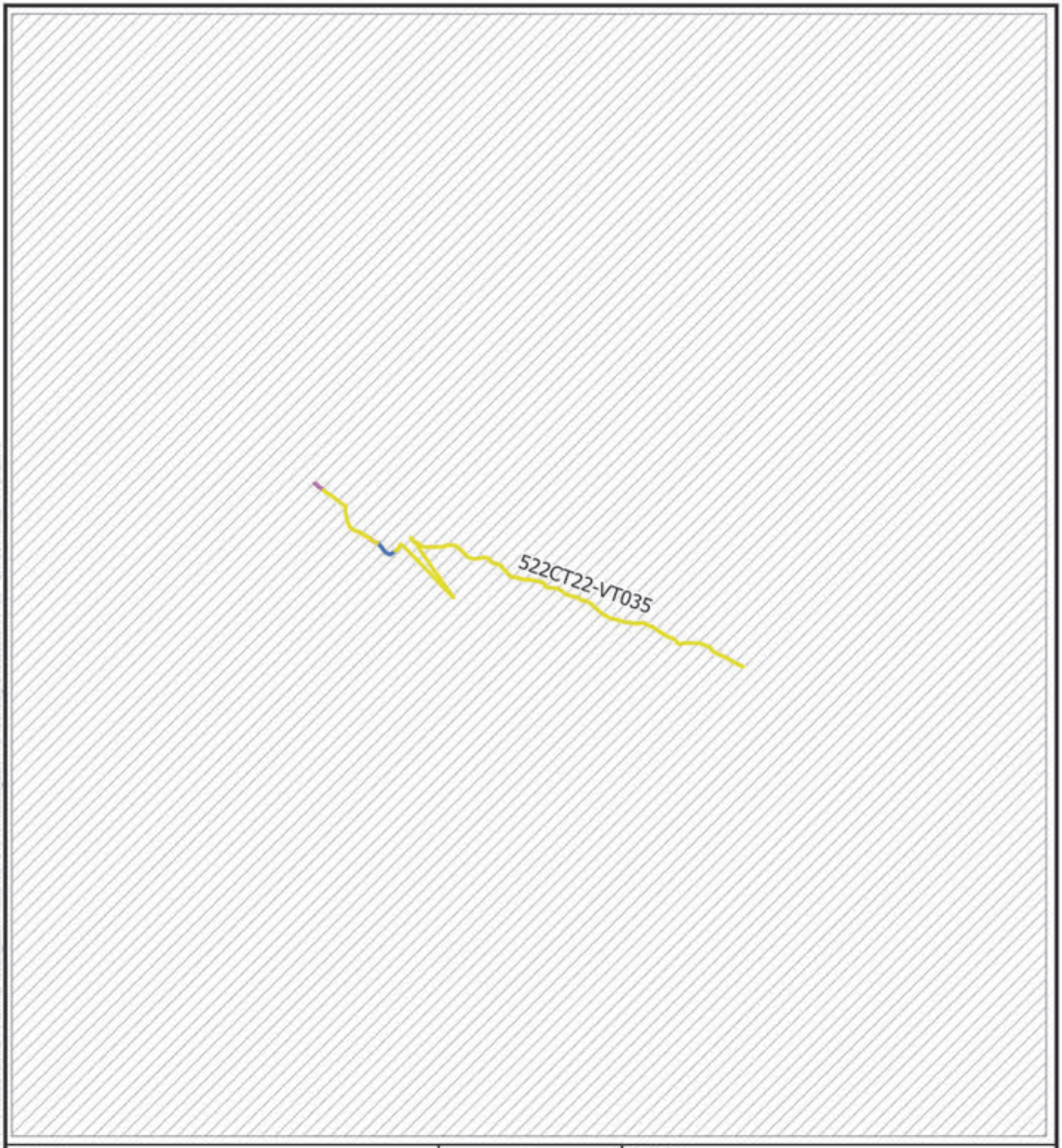
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT034

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT035

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravelly
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

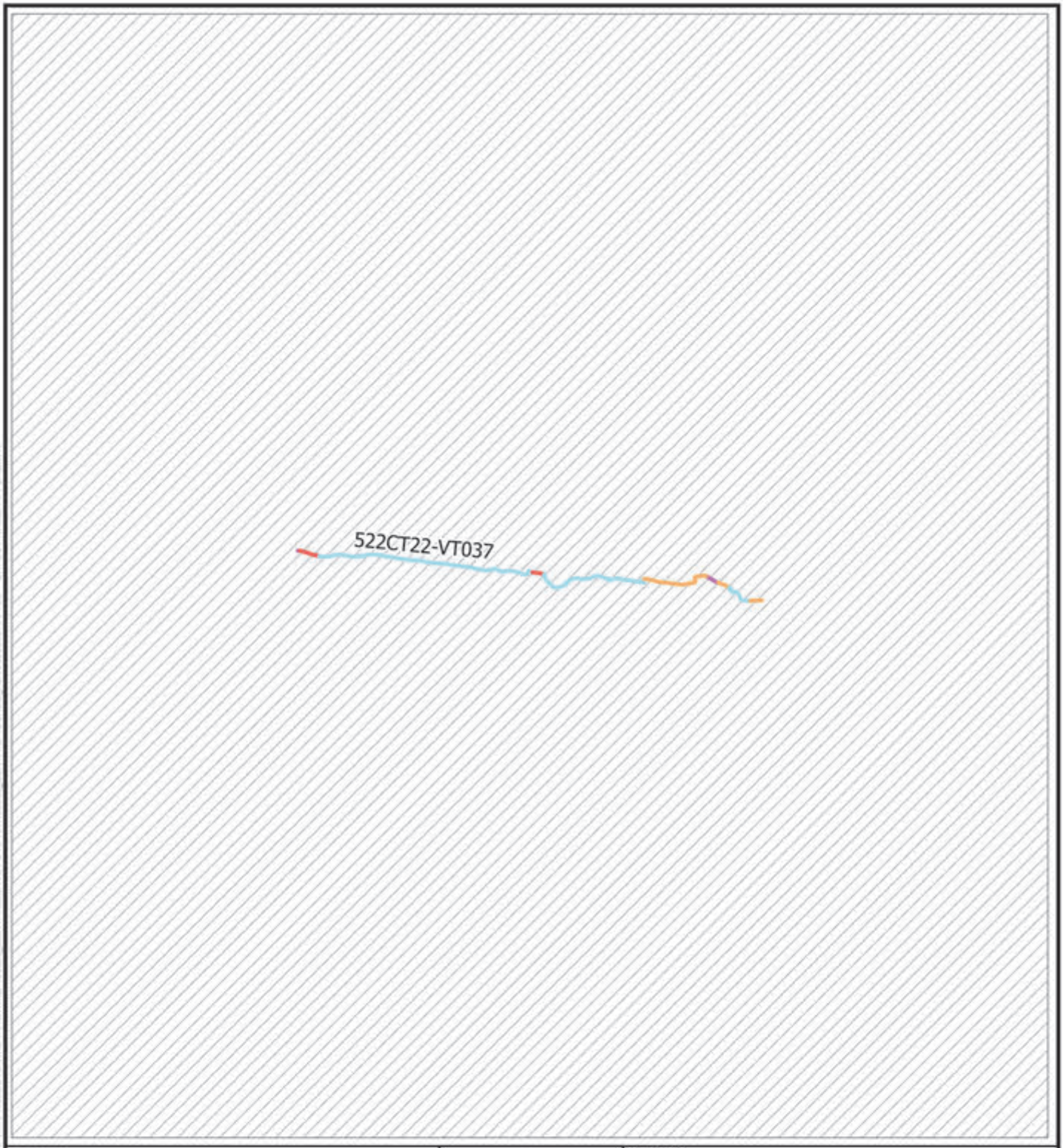
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT036

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

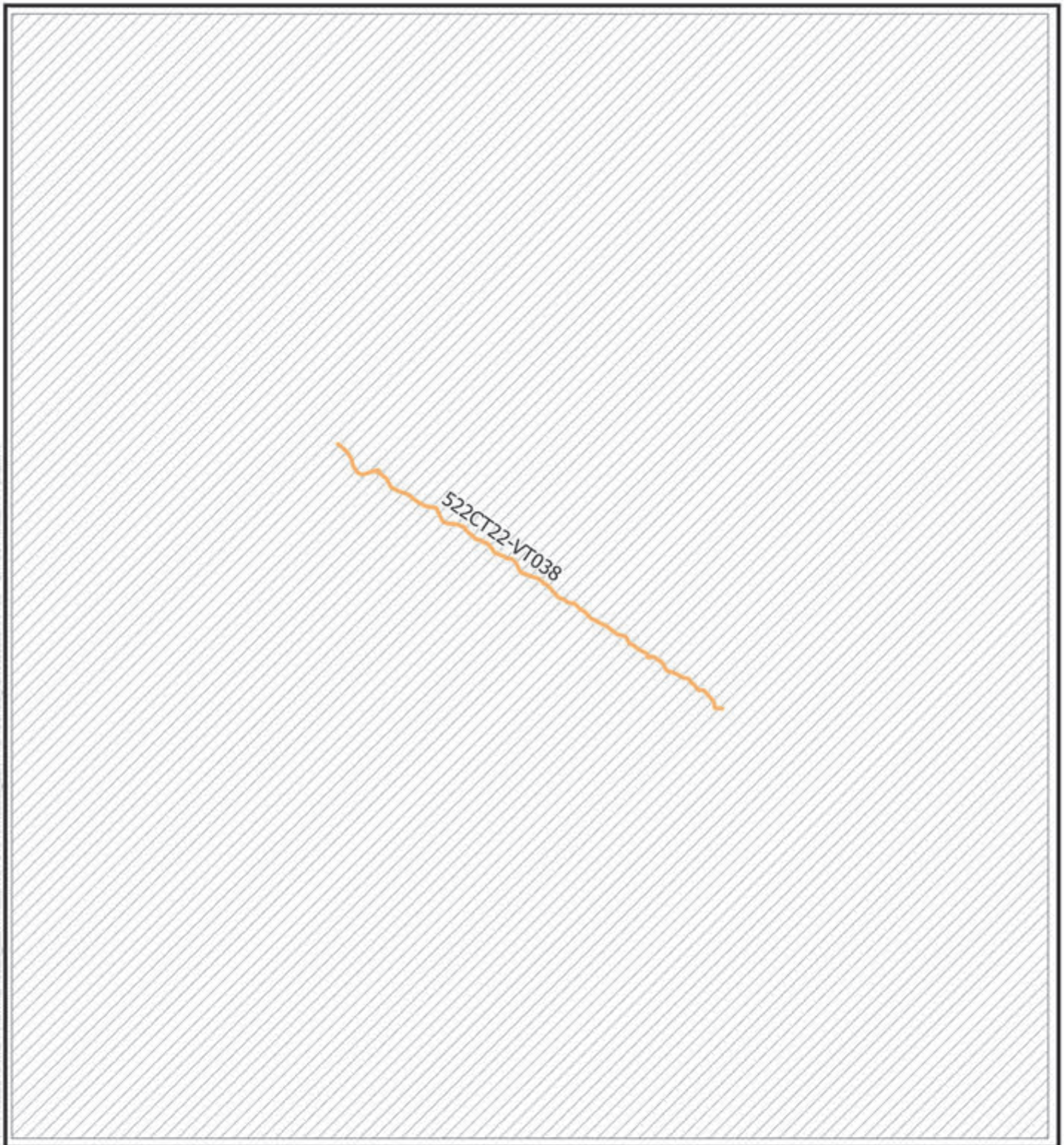
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT037

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

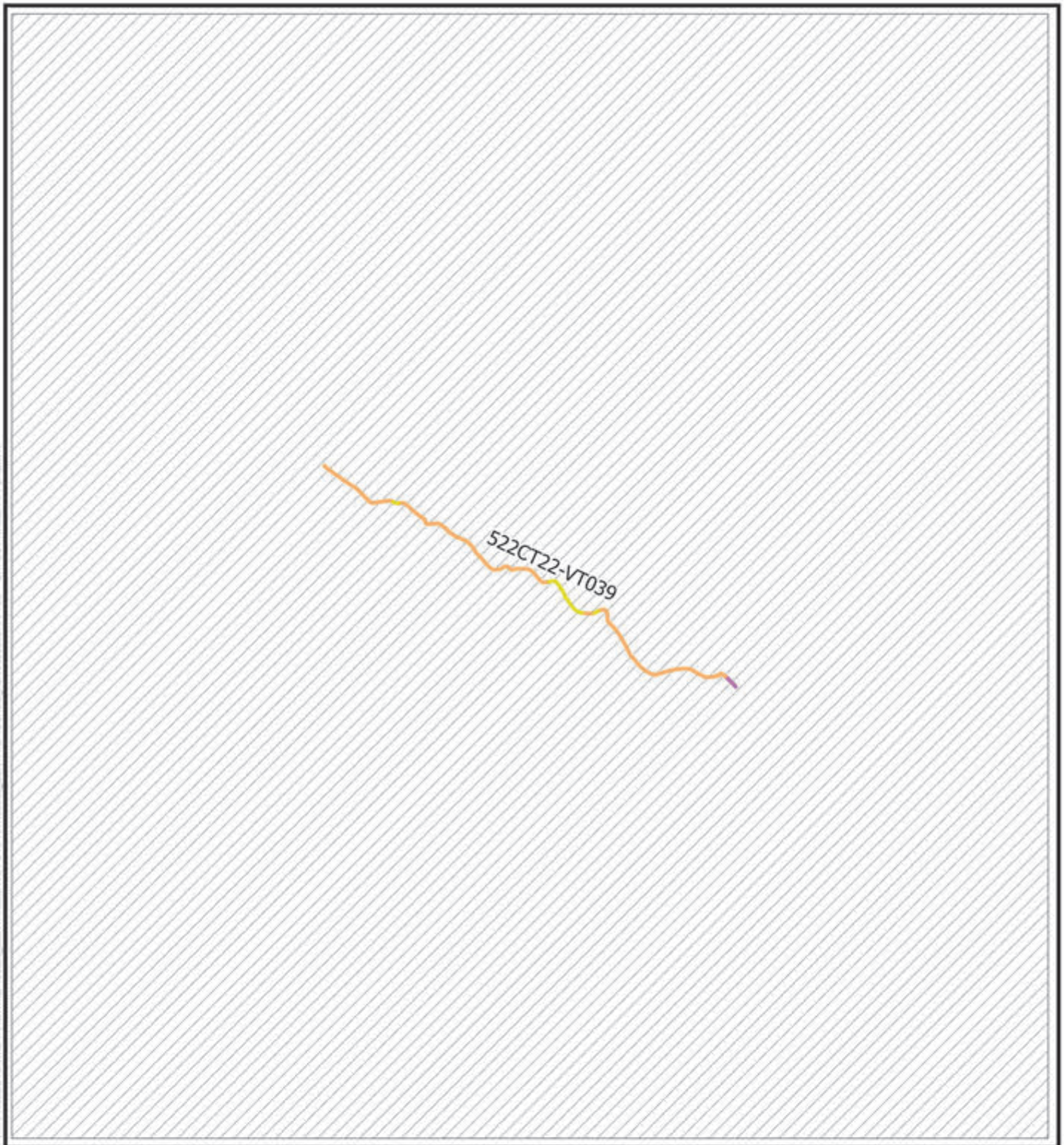
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT038

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD", LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

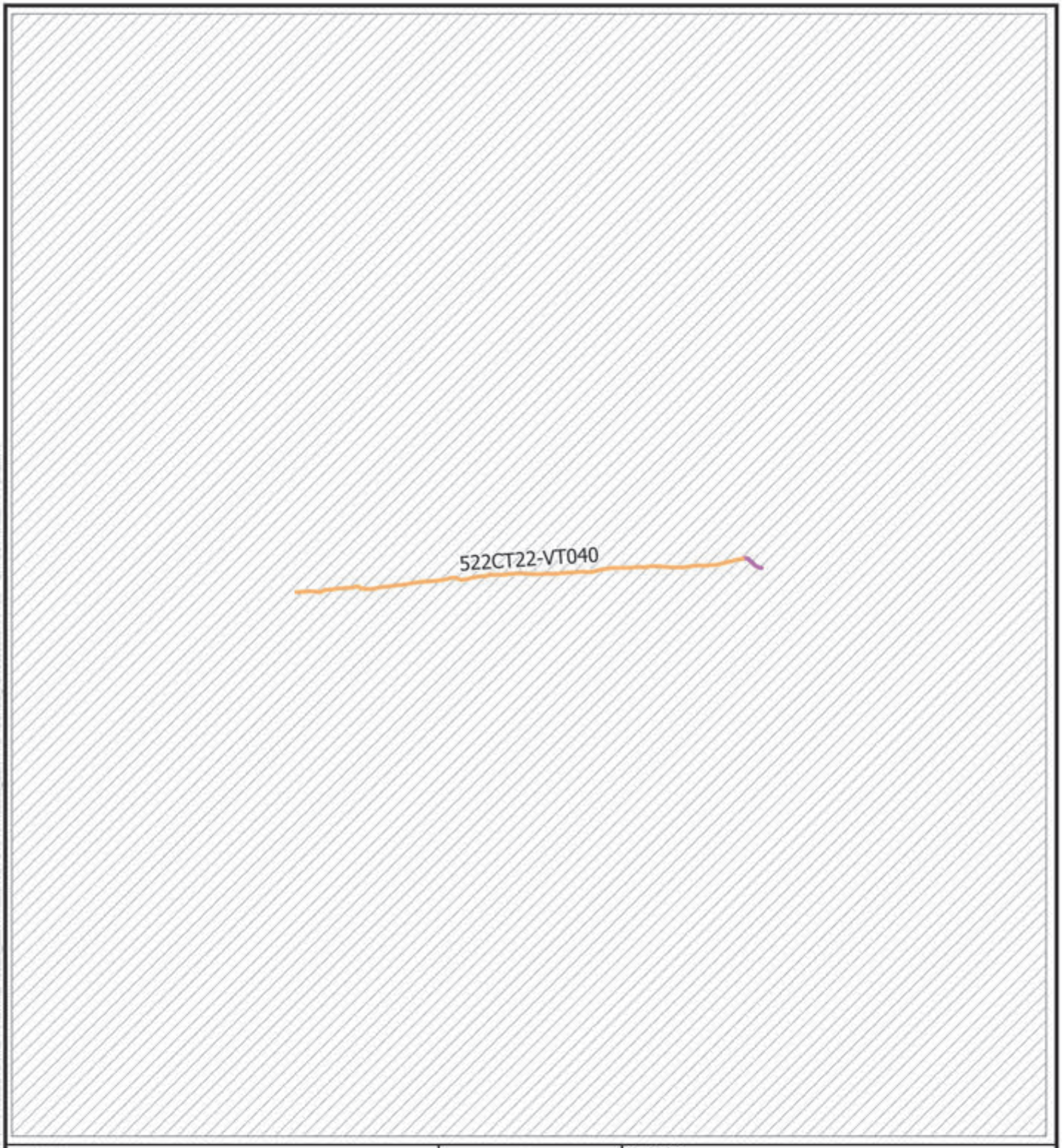
TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT039

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

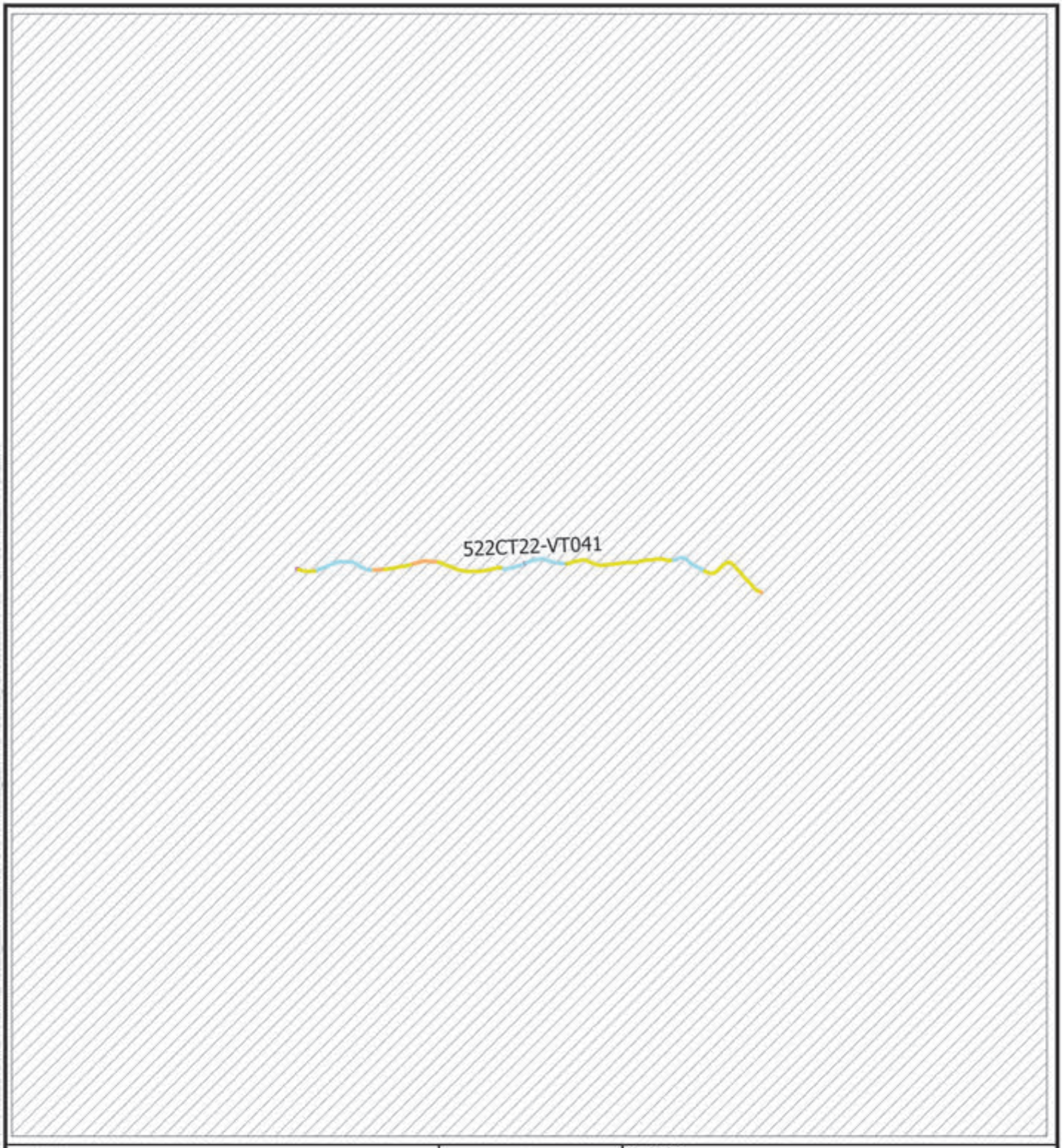
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT040

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

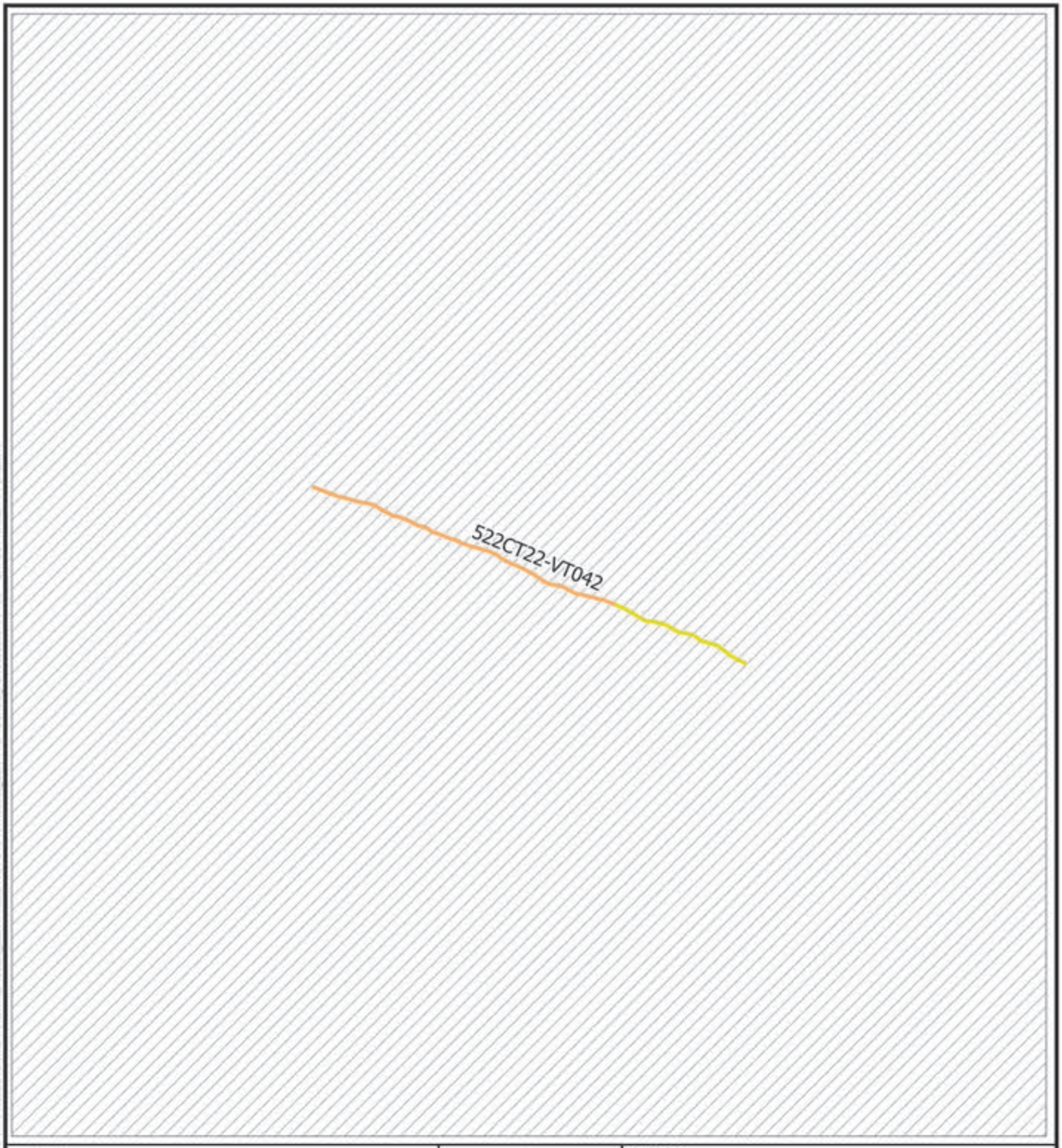
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT041

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

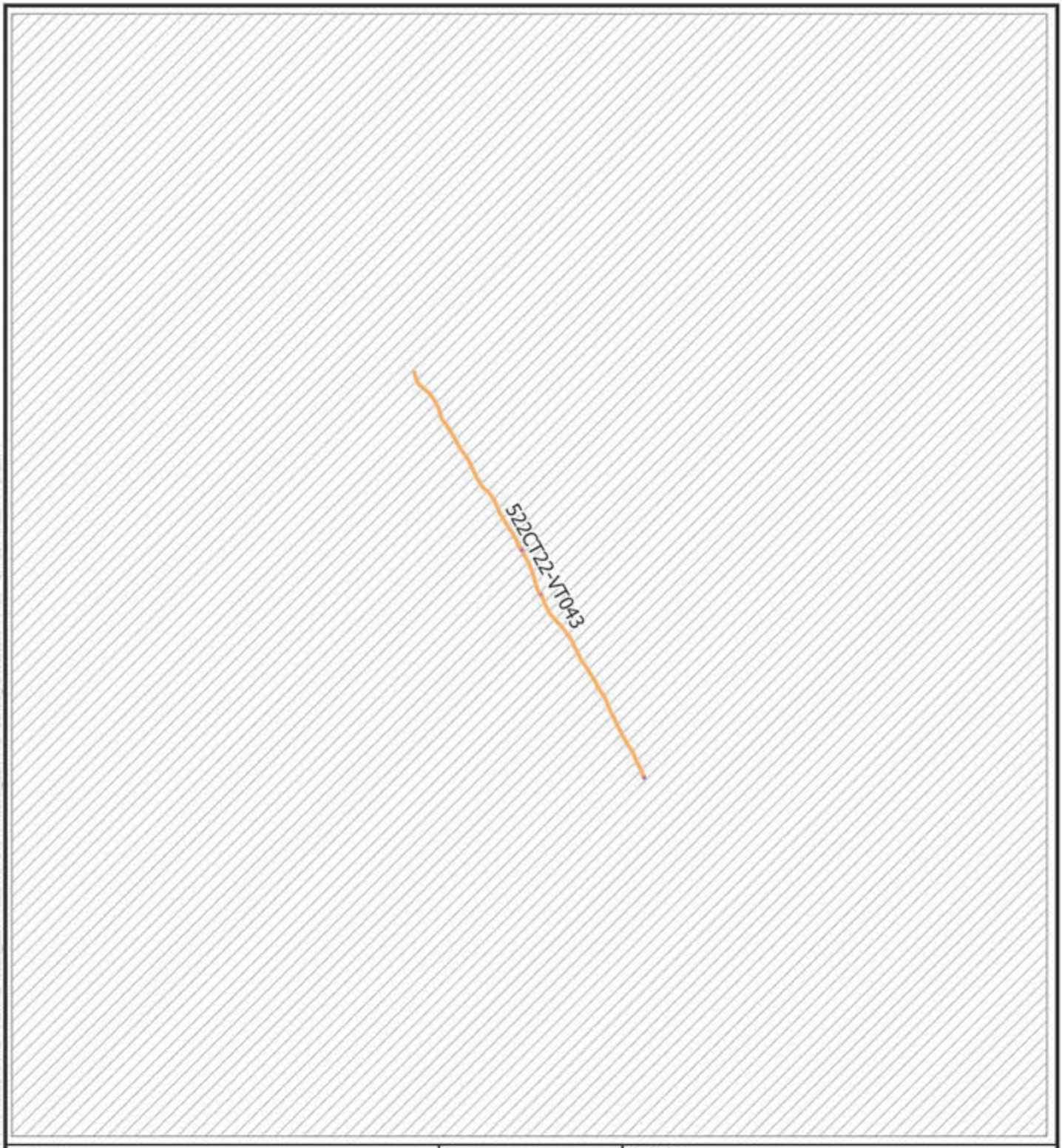
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT042

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

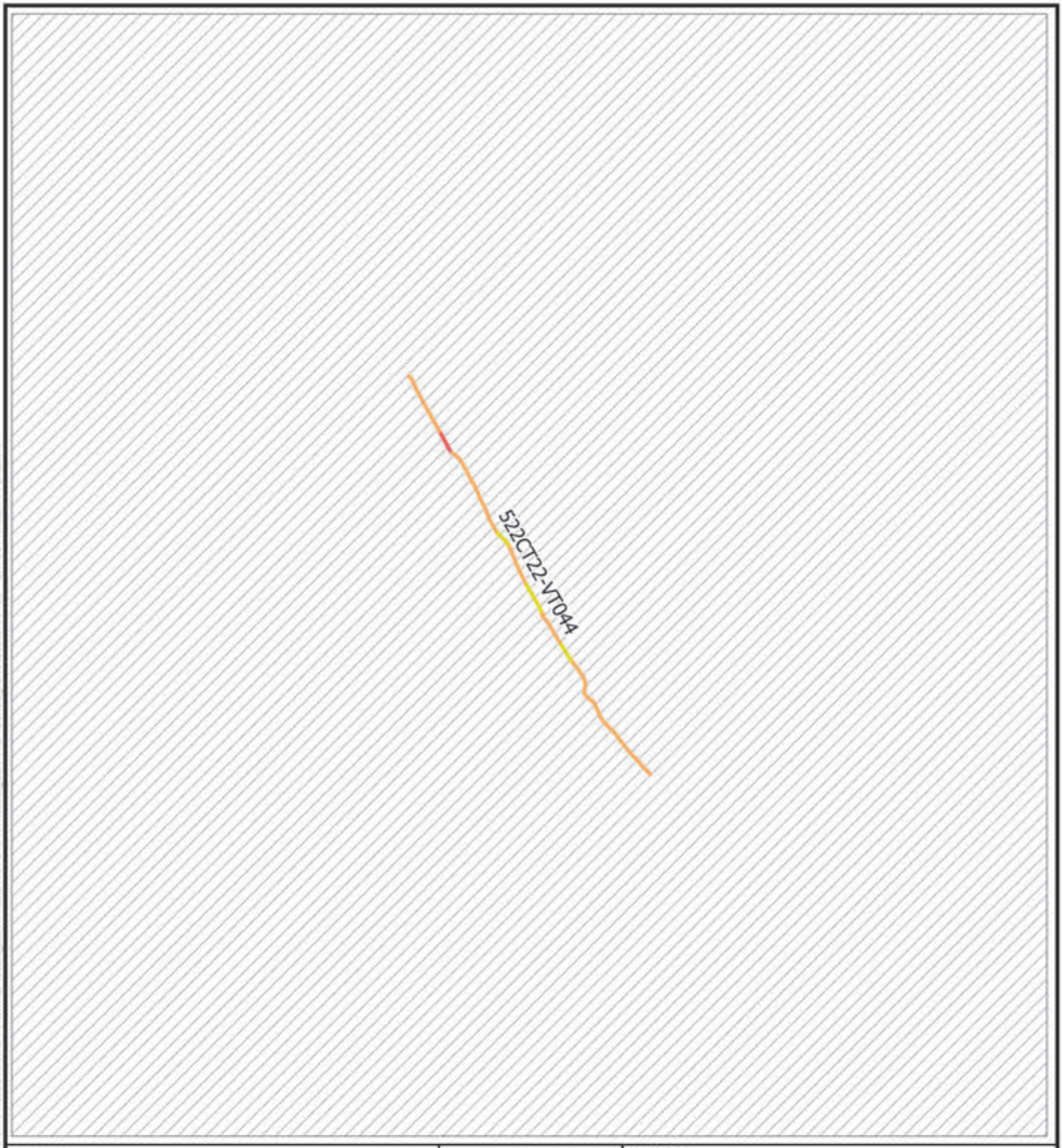
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT043

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

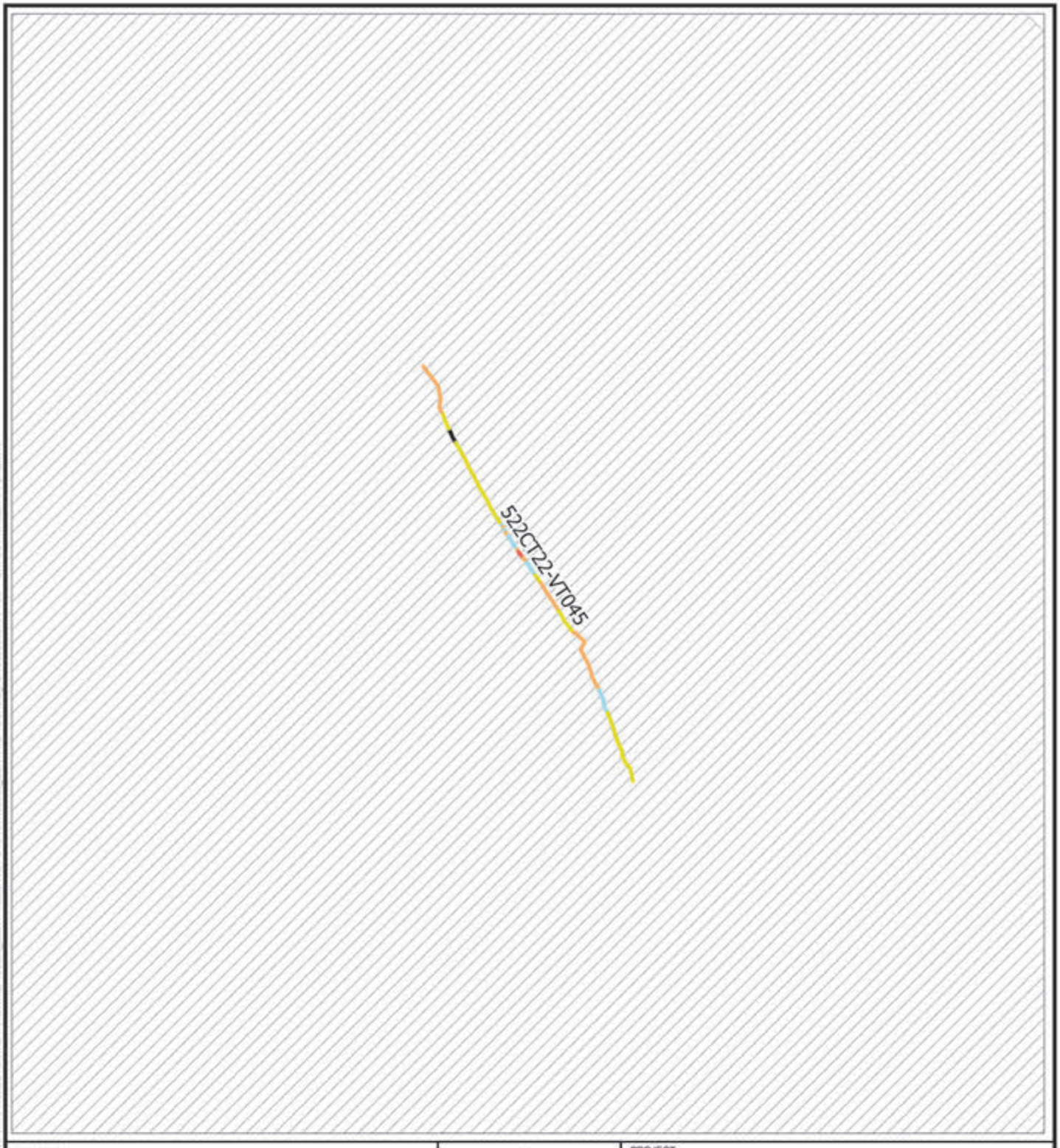
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT044

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Bedrock
Gravel Mixes
Gravelly
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

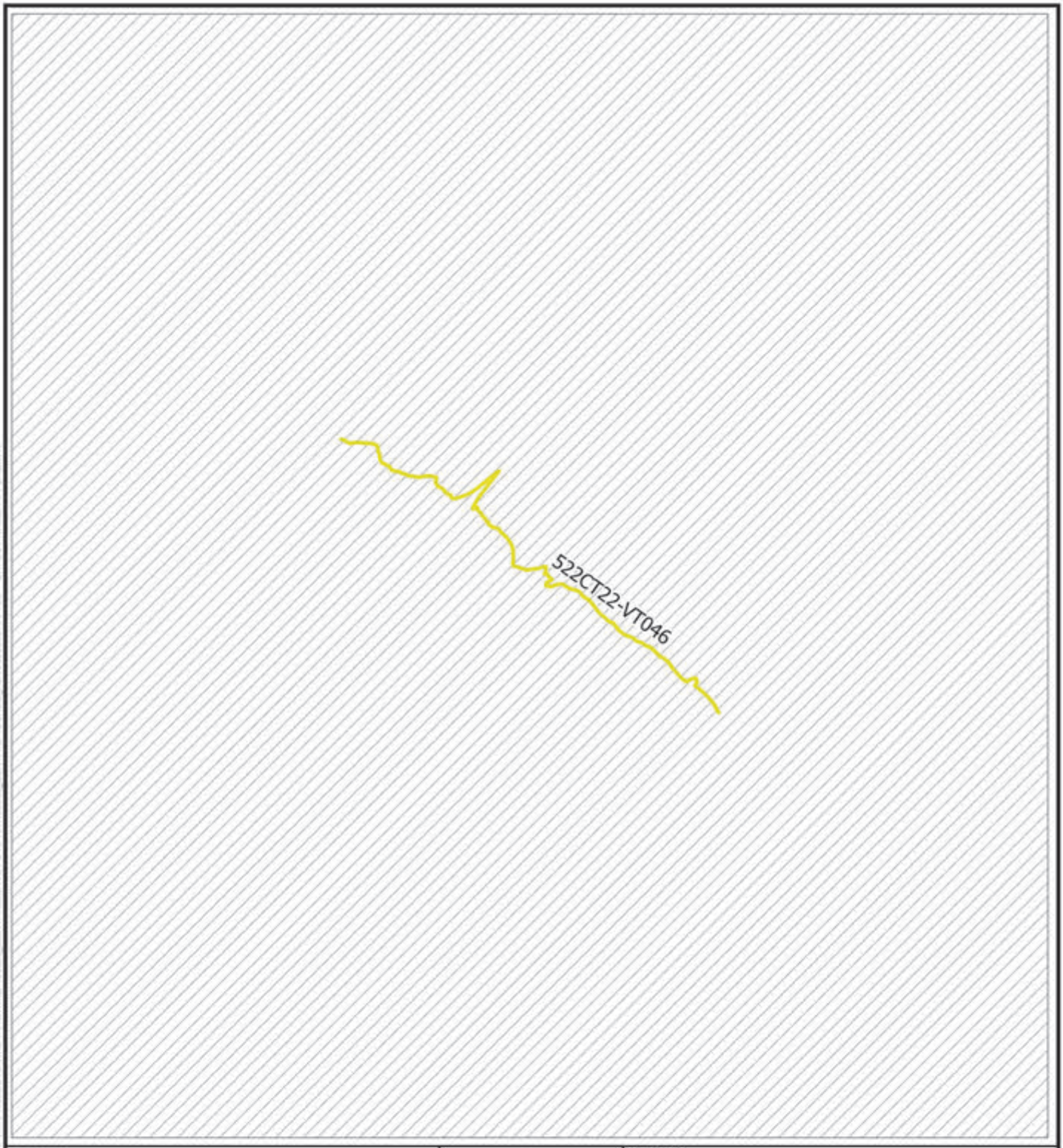
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT045

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_M_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX M



CT Offshore Export Cable Corridor

Shell

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

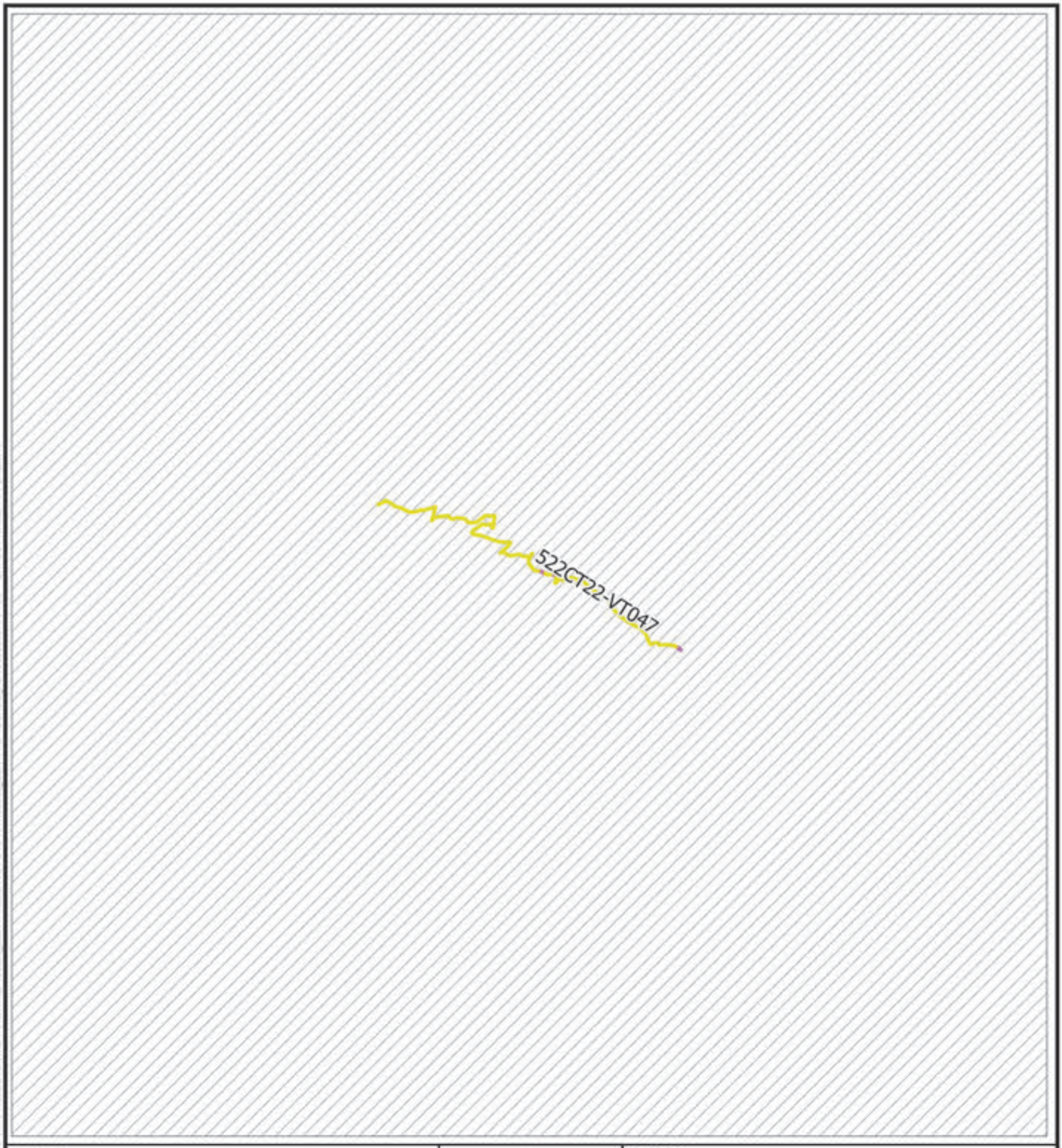
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT046

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

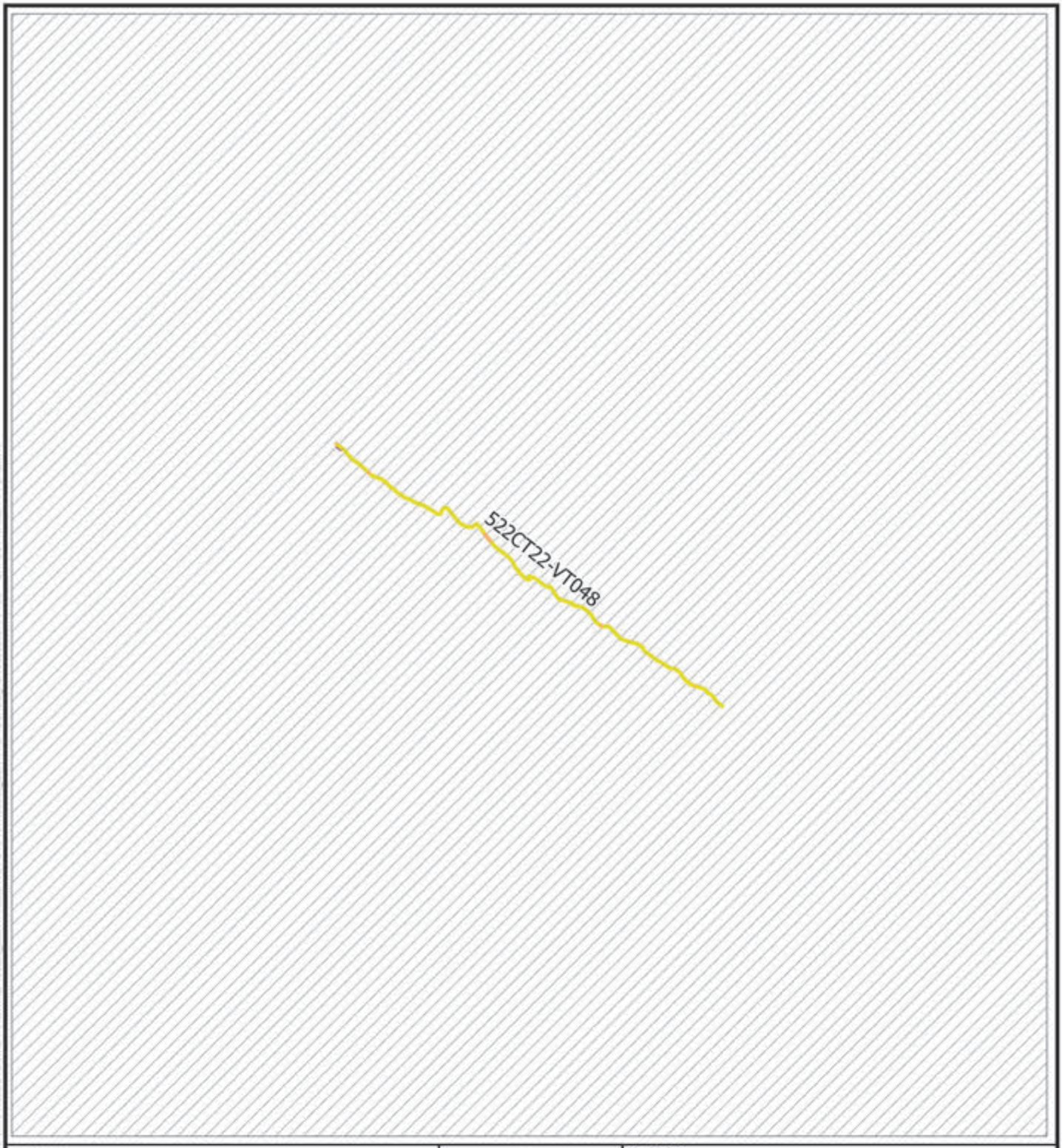
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT047	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

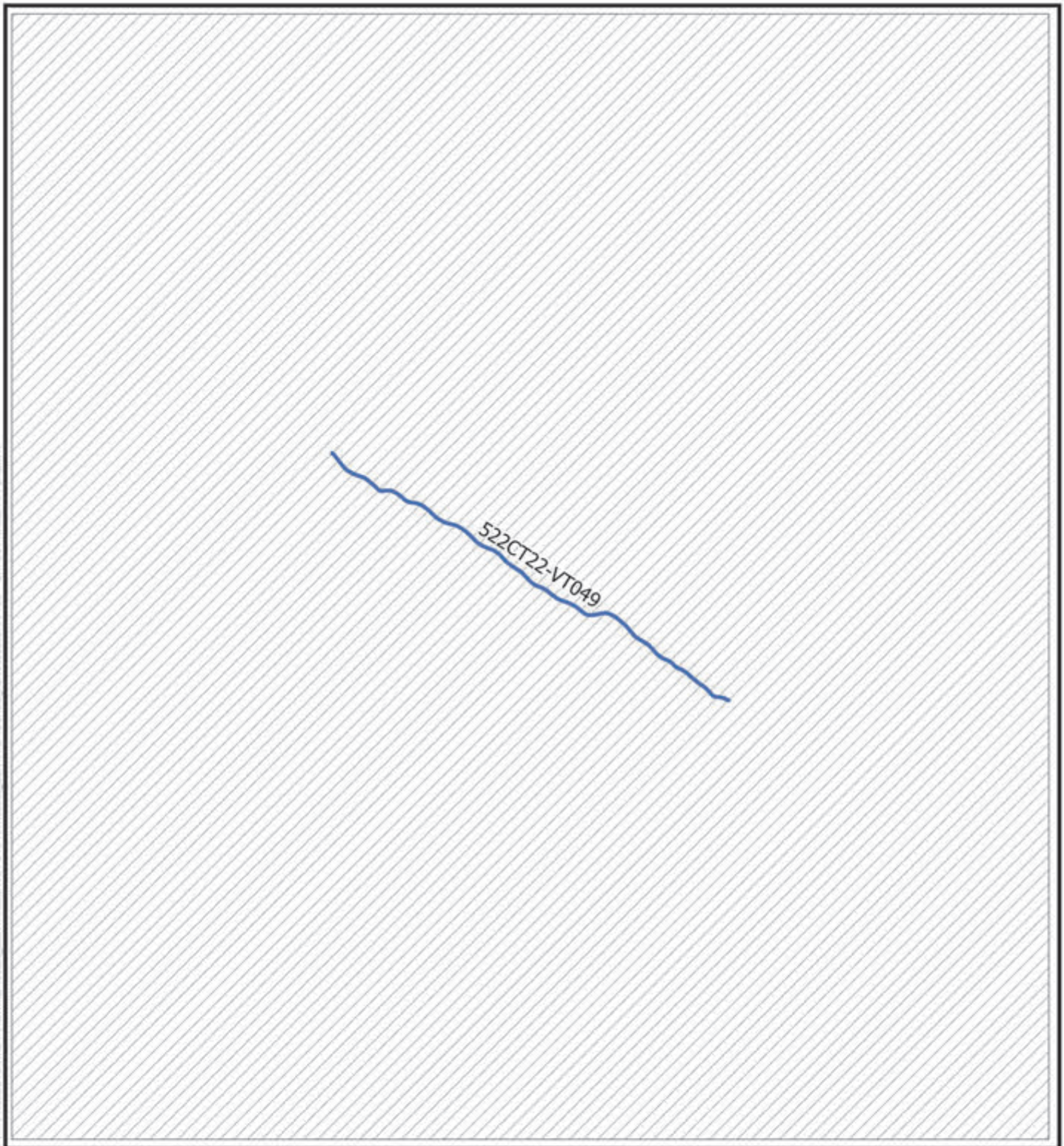
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT048	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Gravel

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

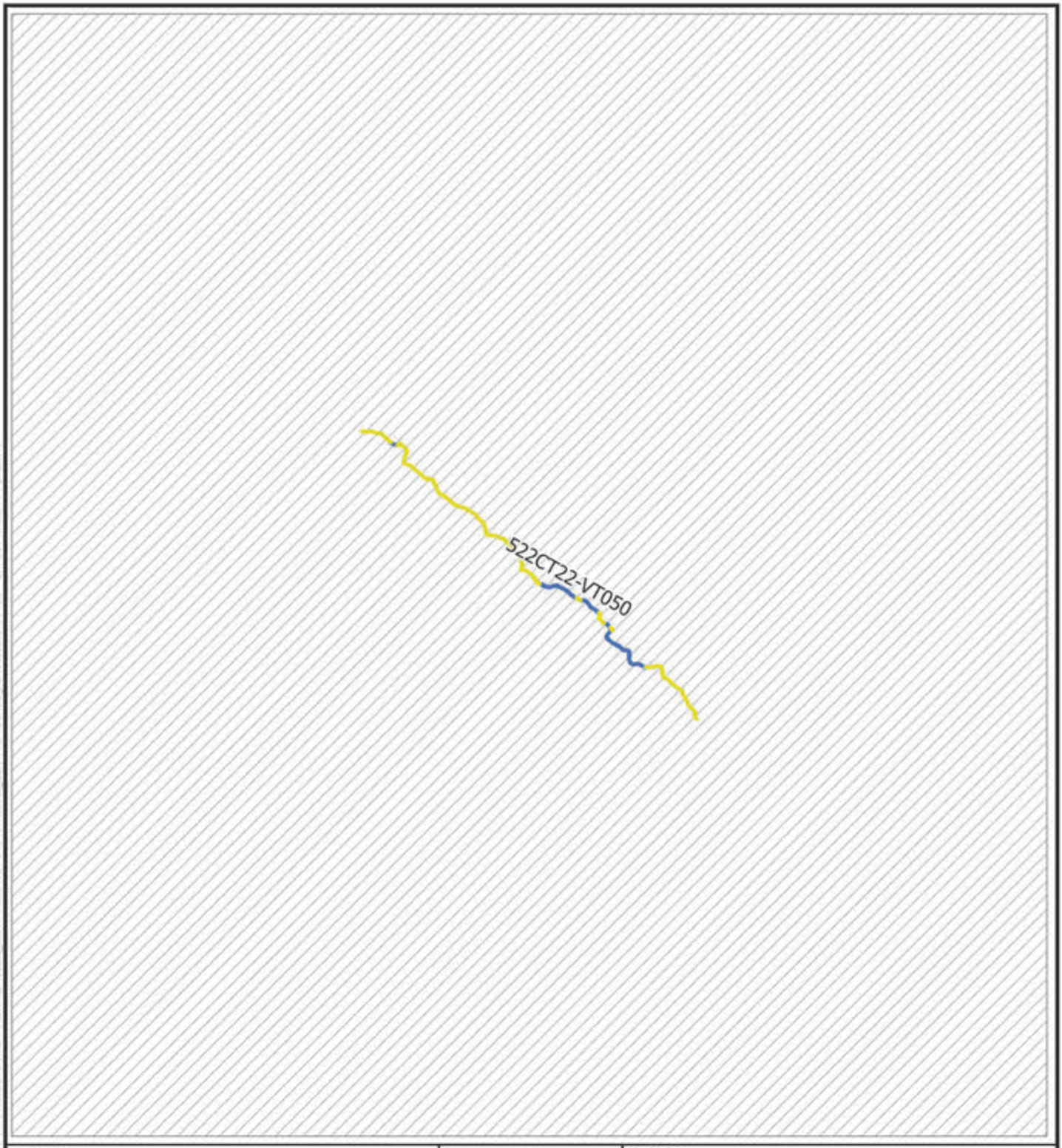
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT049

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAREACHANGE_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

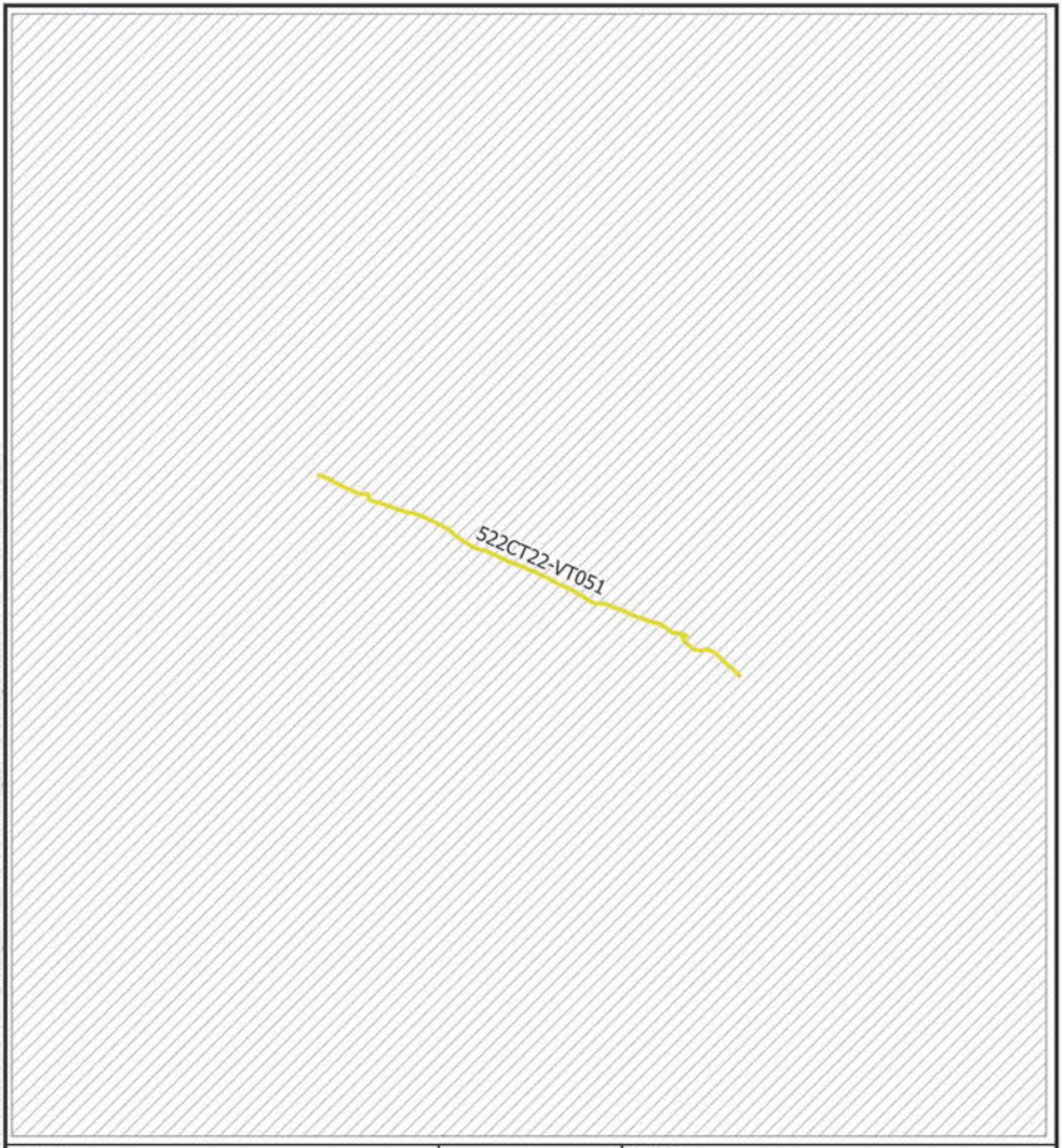
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT050

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

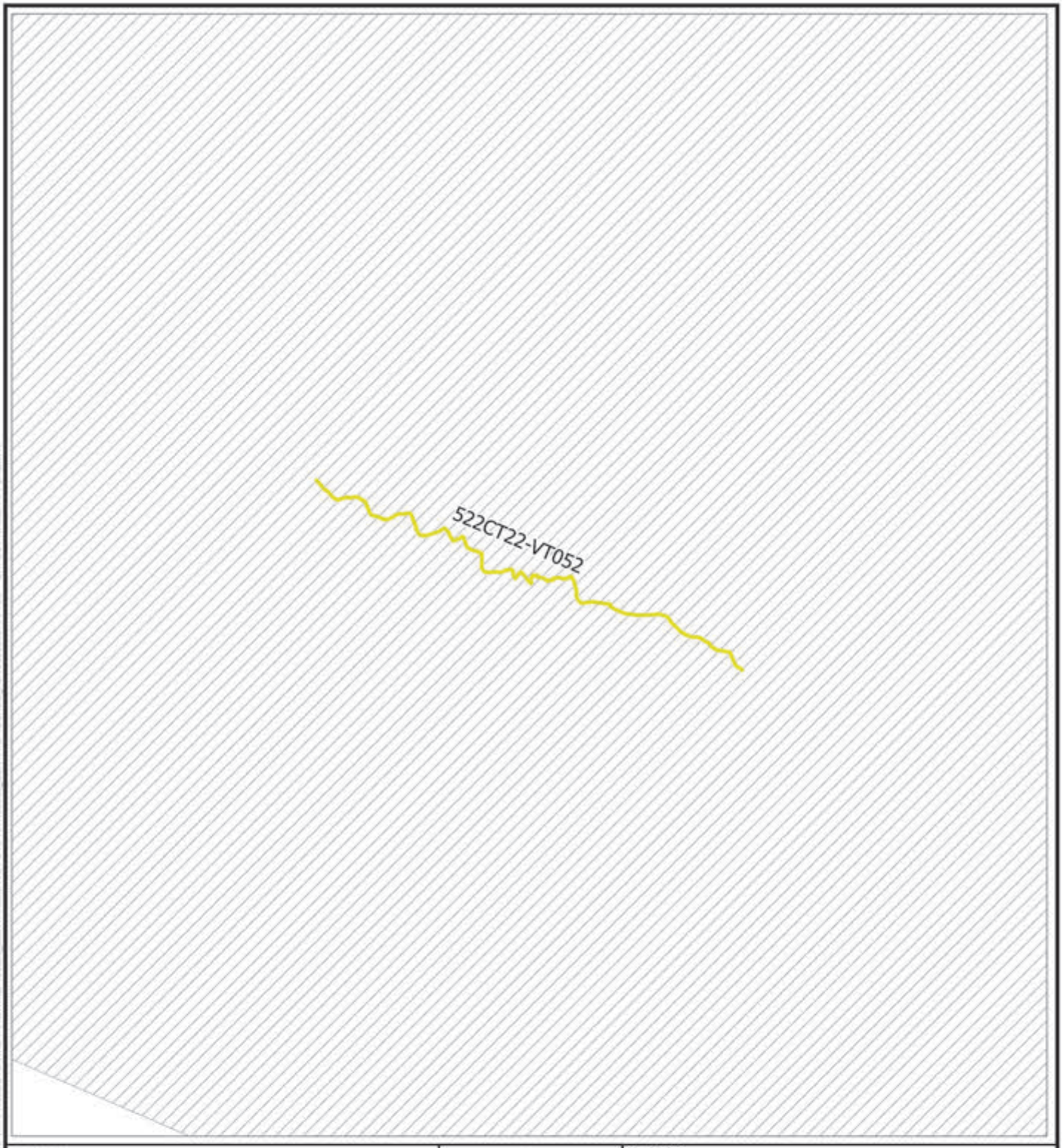
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT051

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

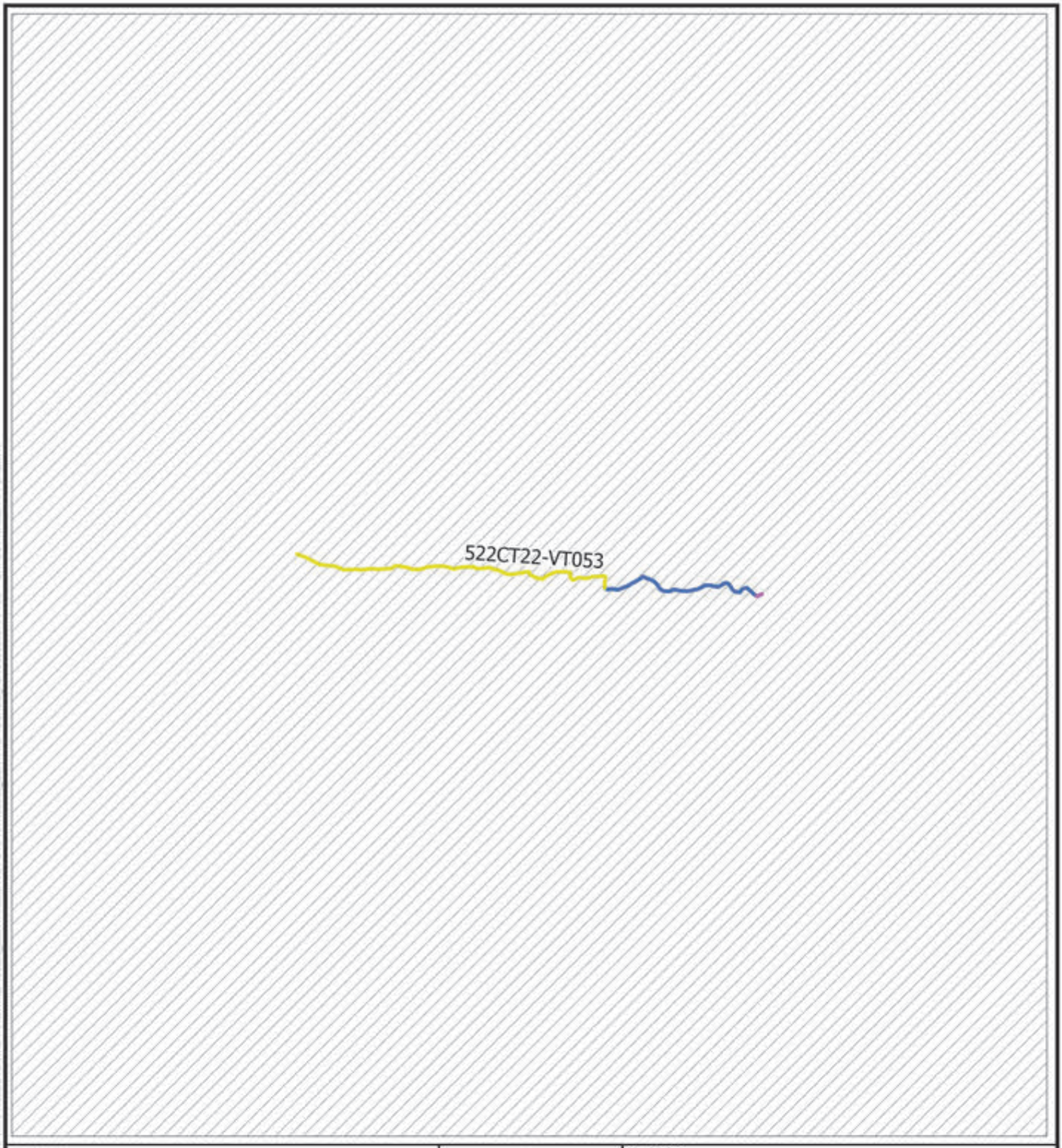
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT052

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

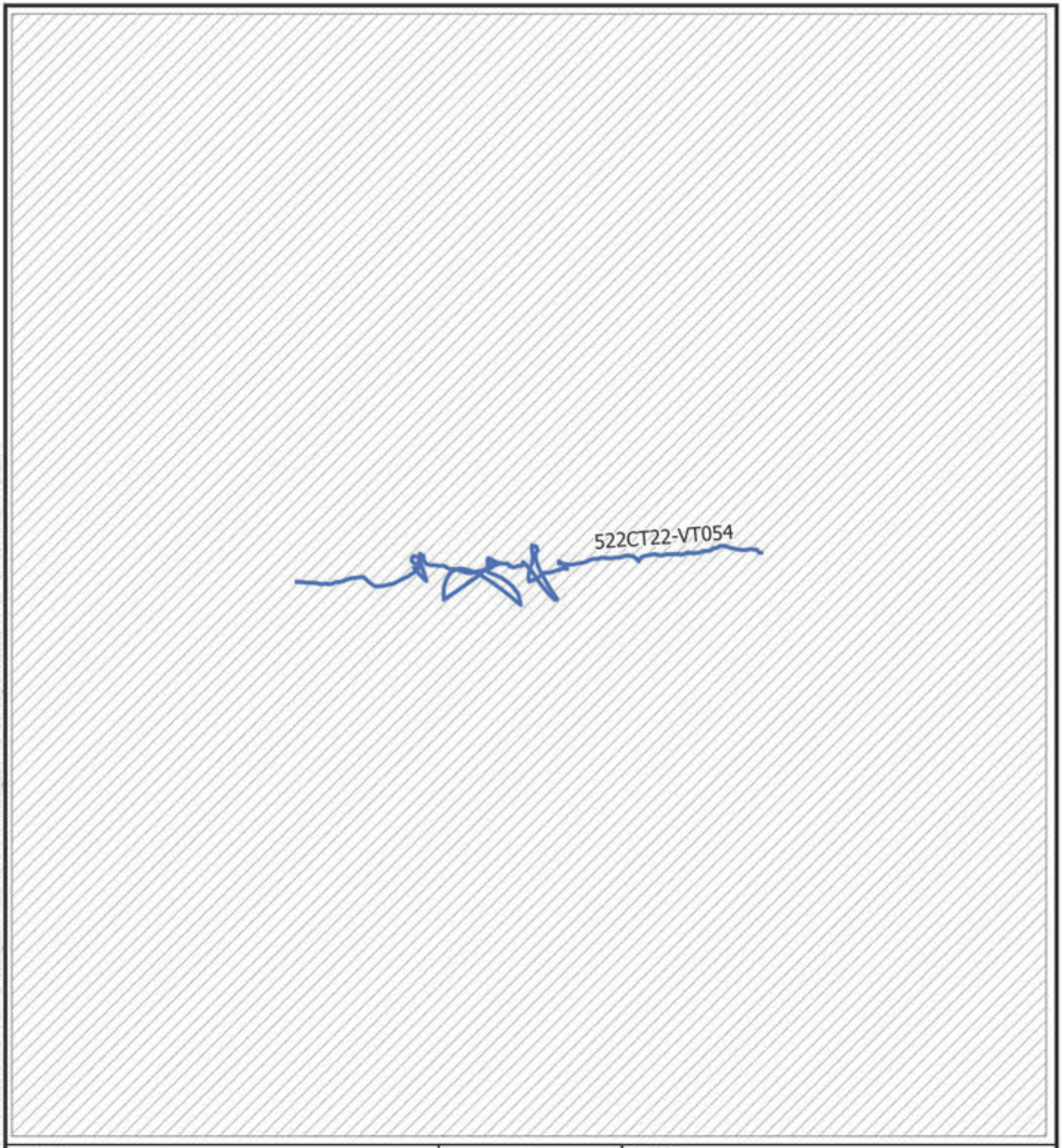
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT053

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Gravel

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

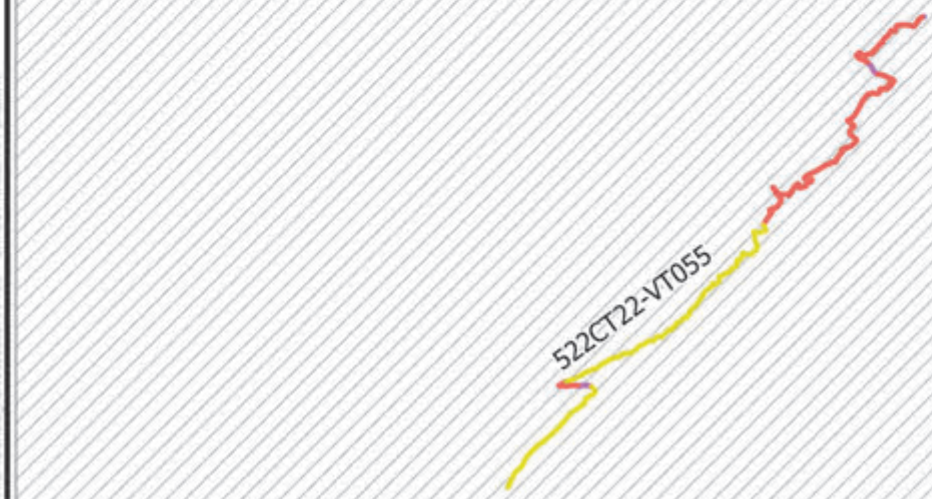
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT054

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

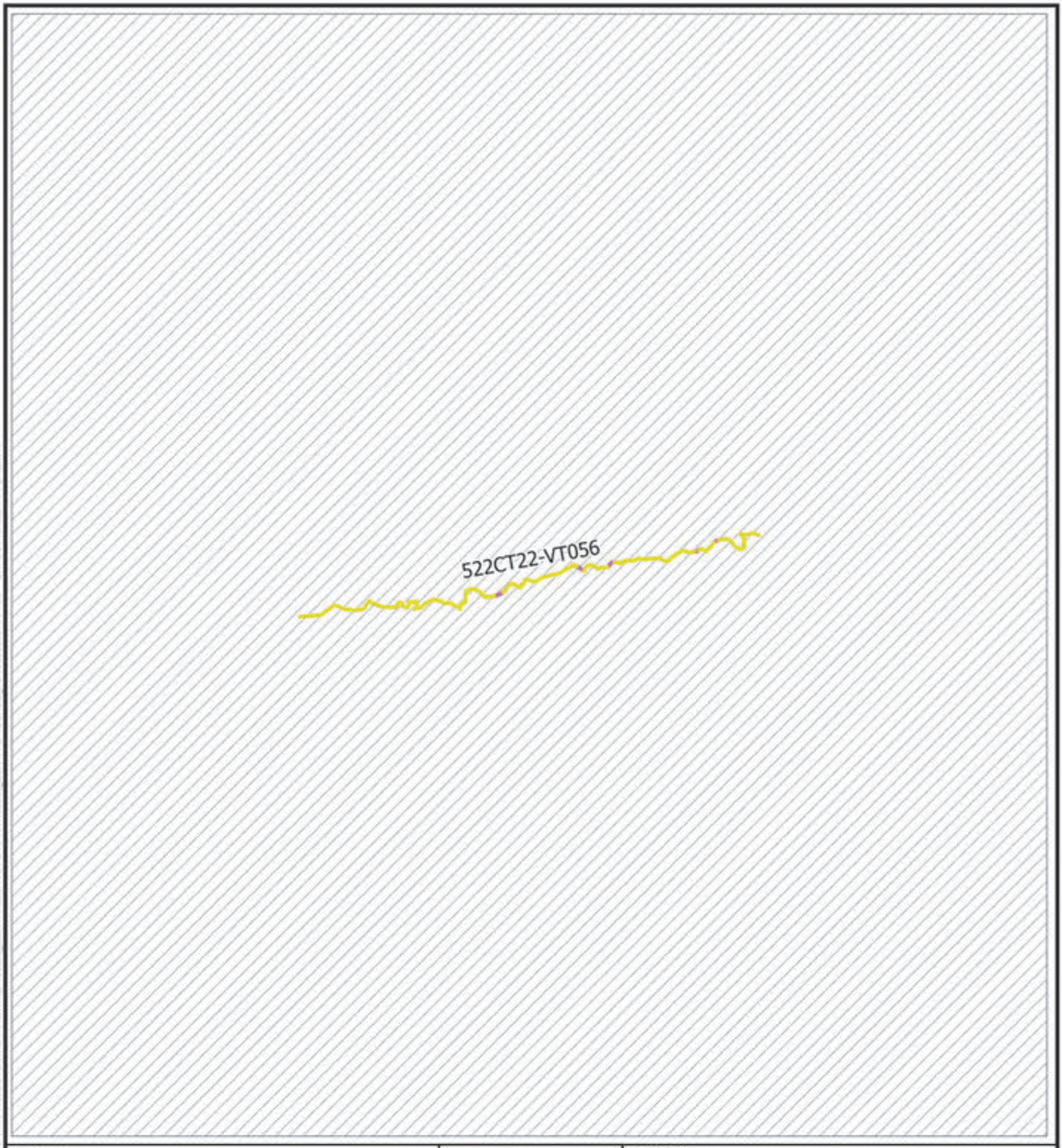
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT055

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

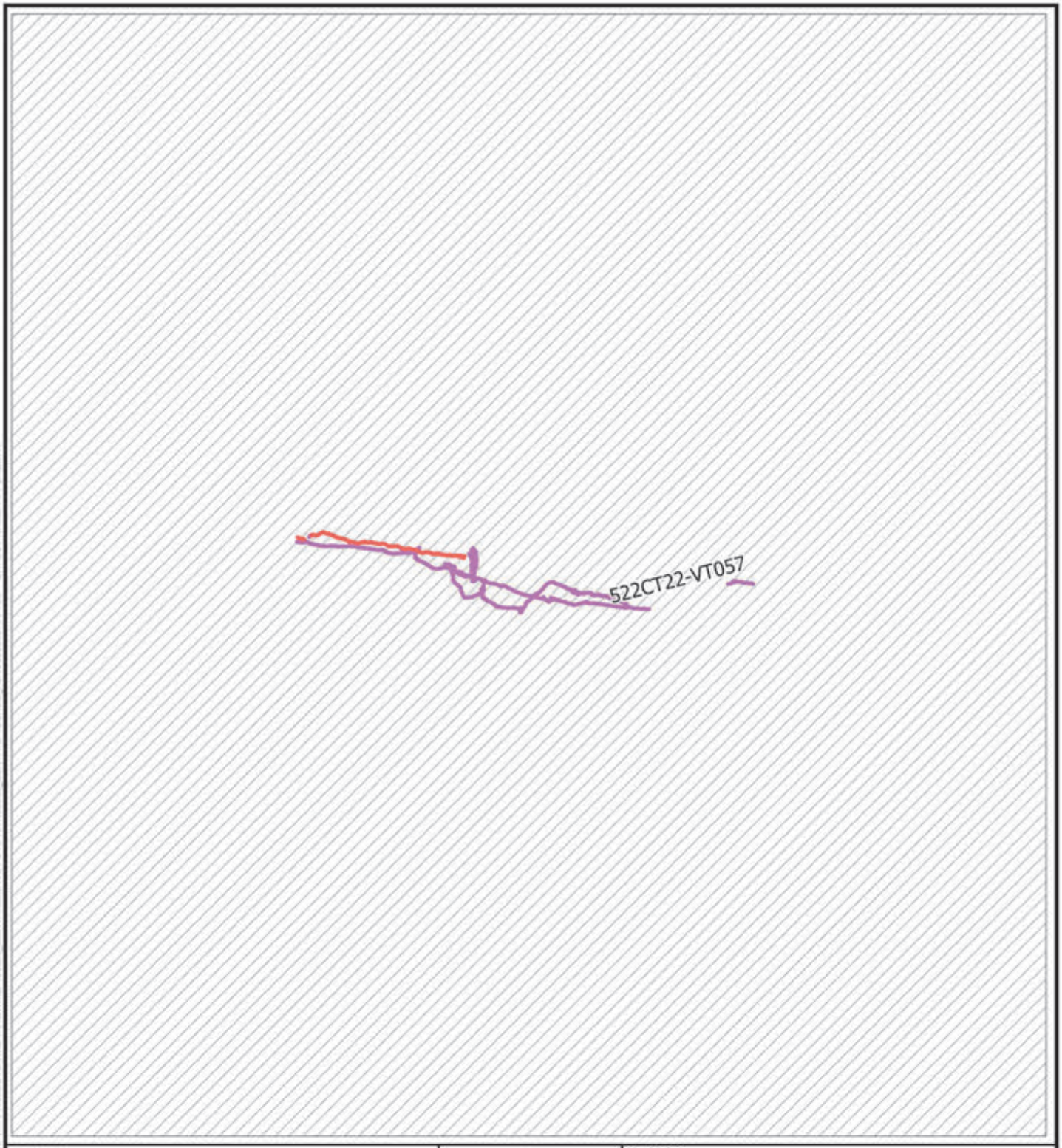
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT056	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

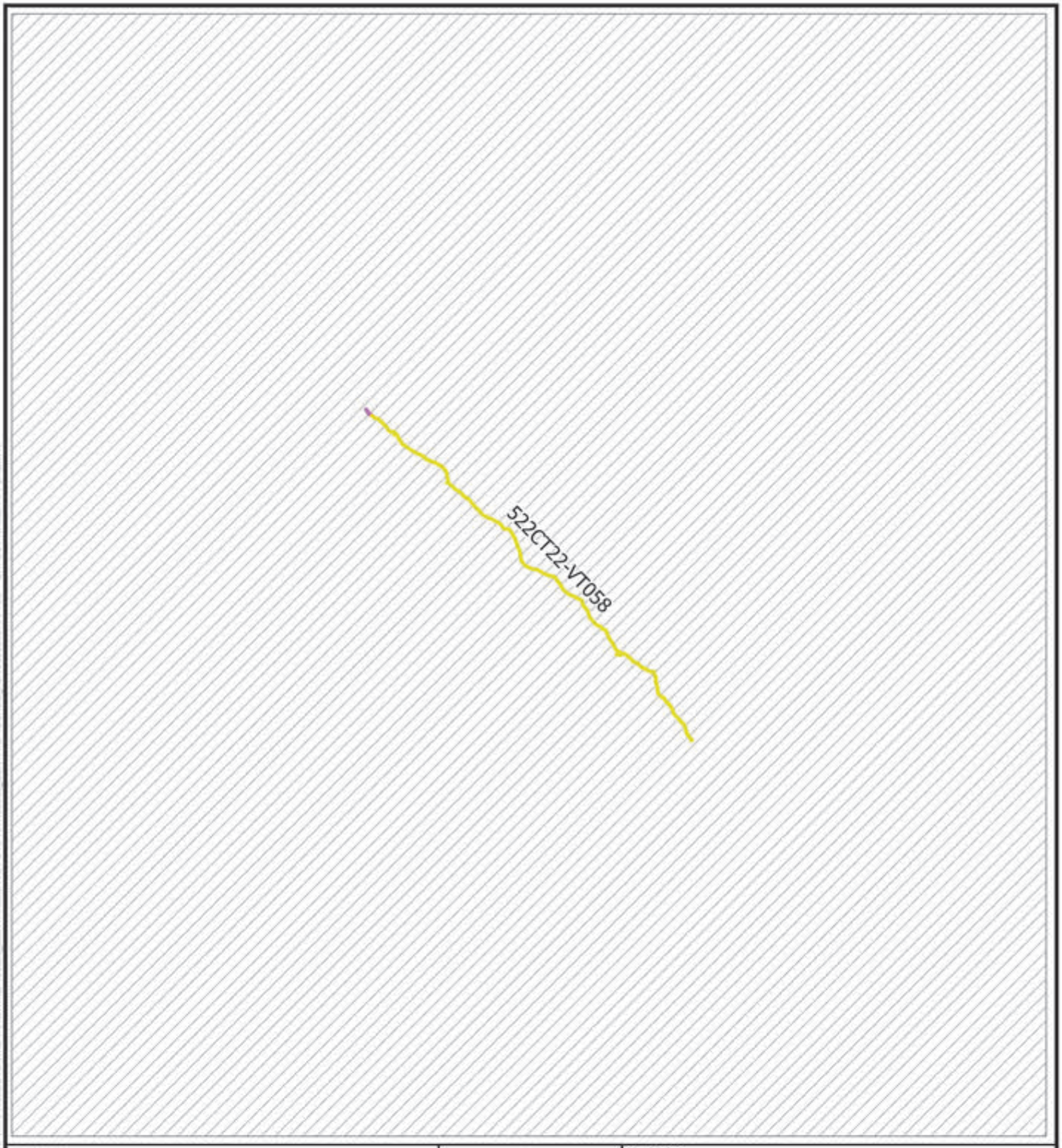
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT057

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

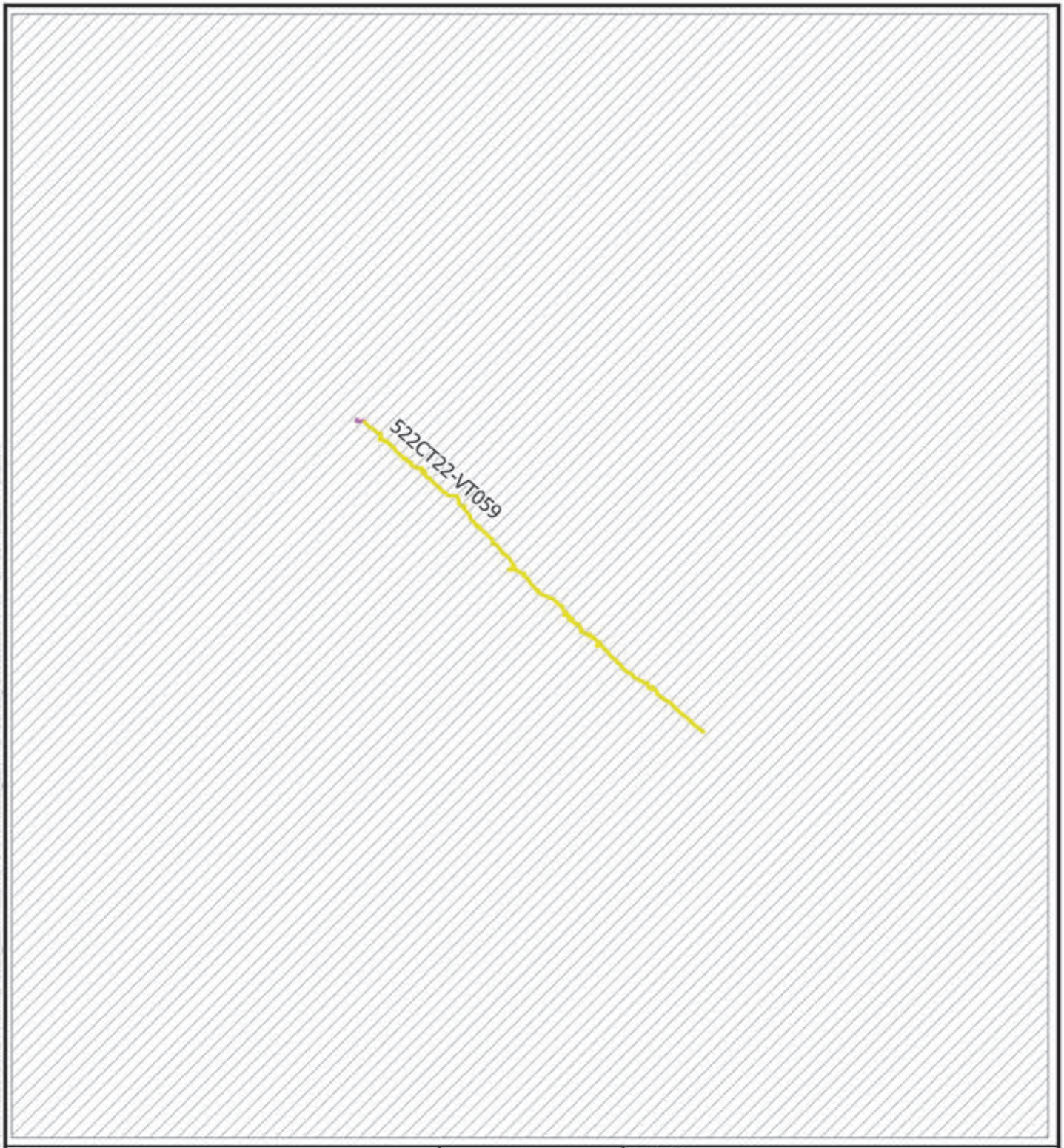
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT058	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

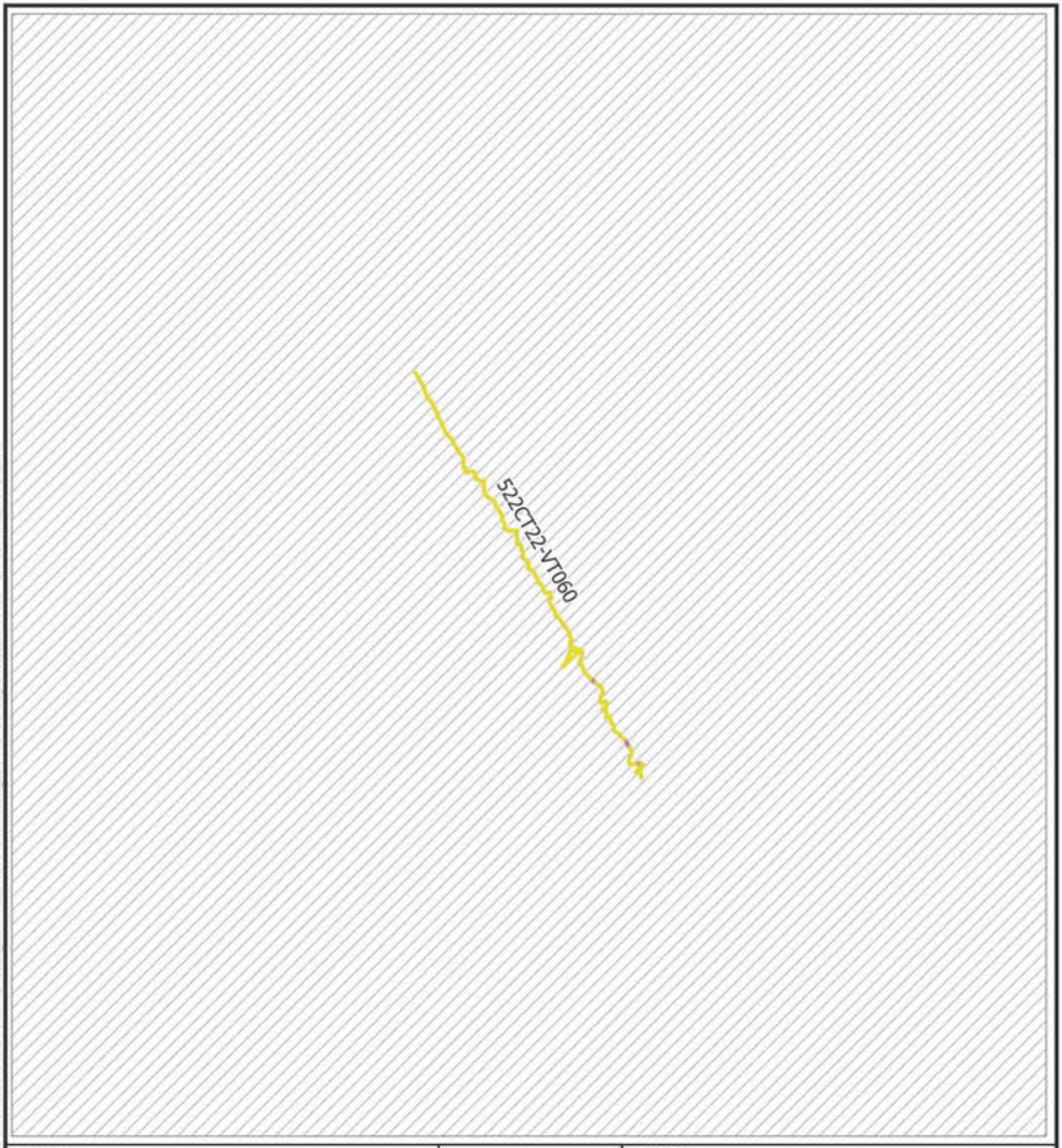
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT059

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: JDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

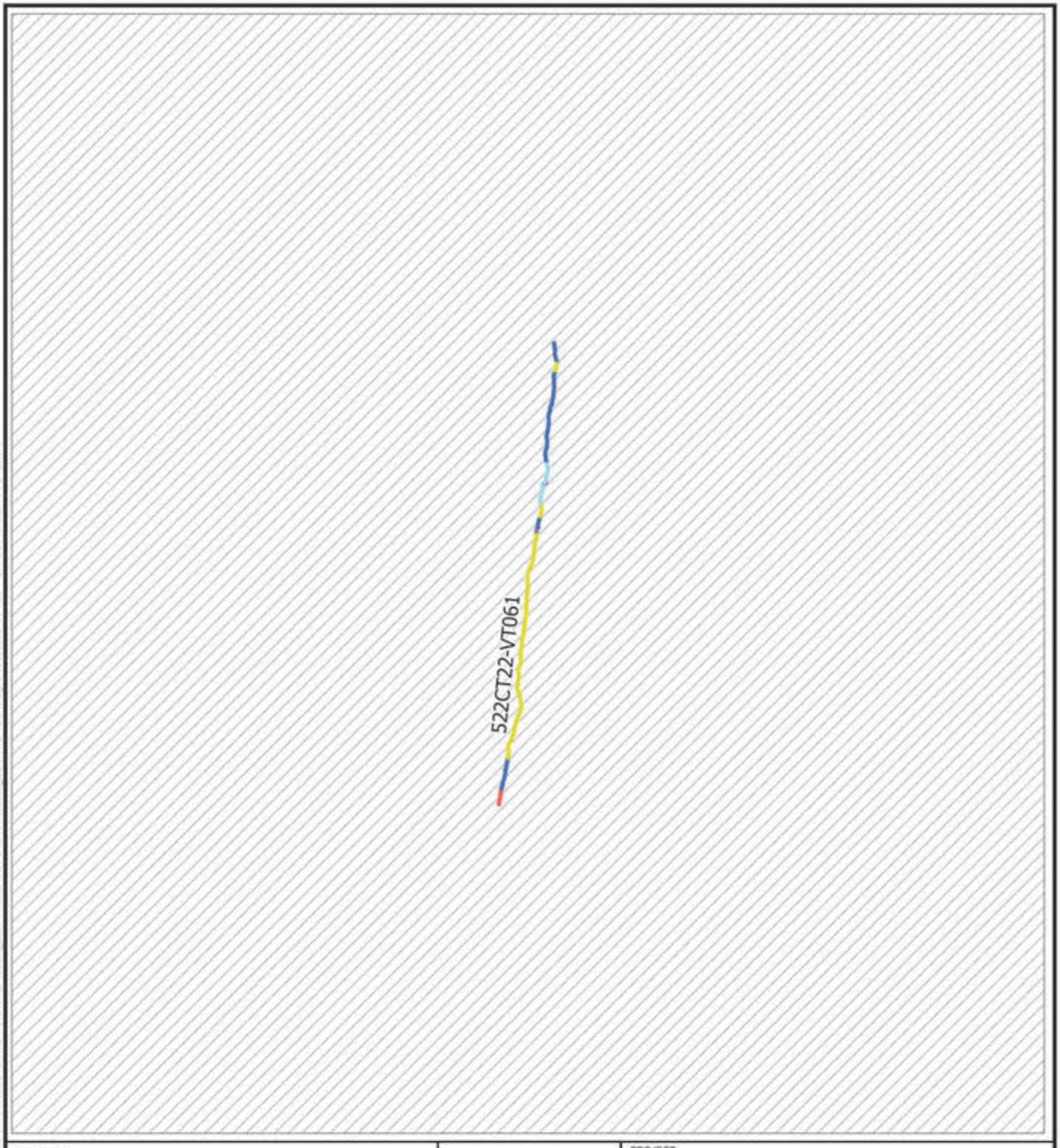
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT060	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

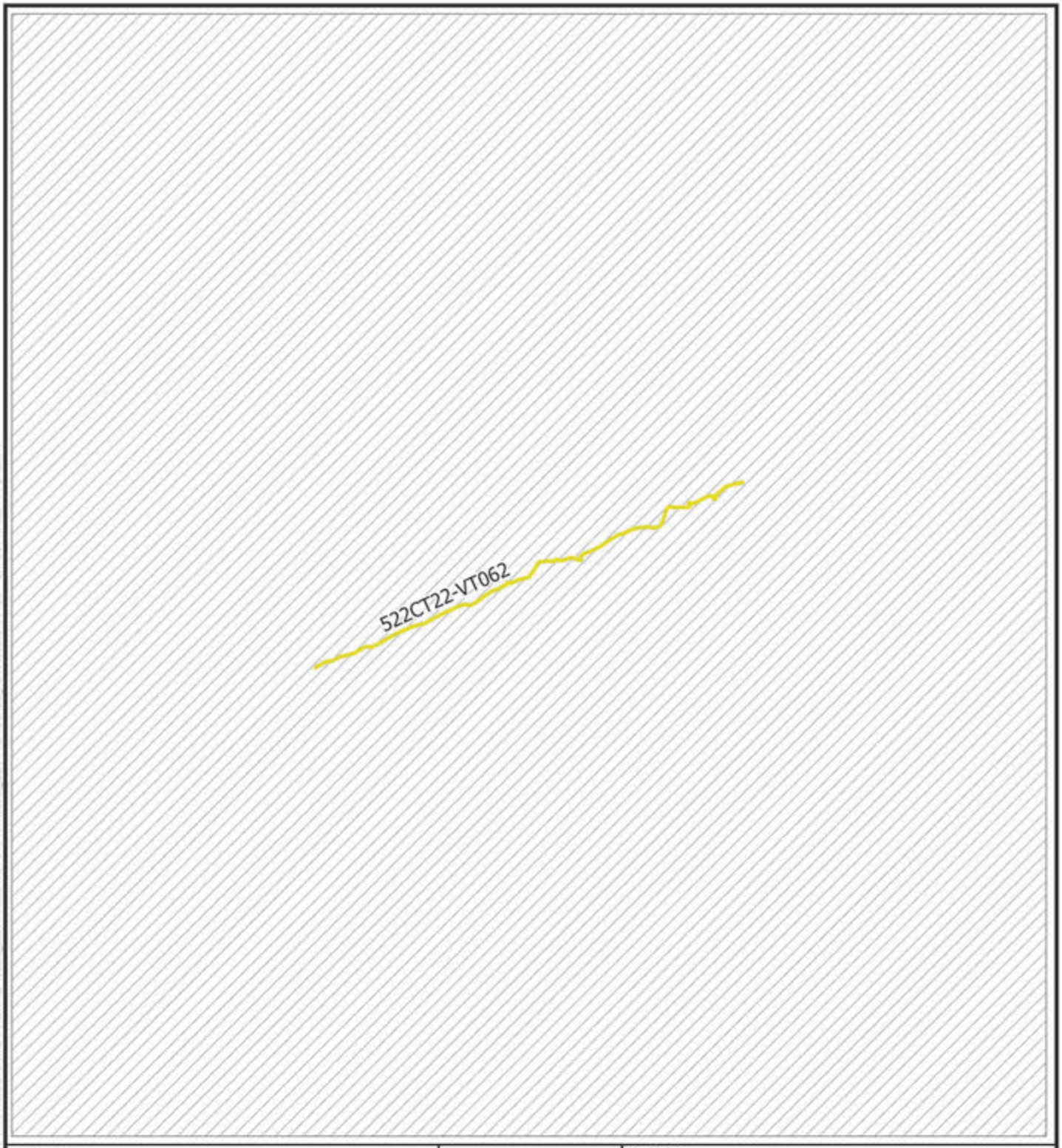
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT061

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

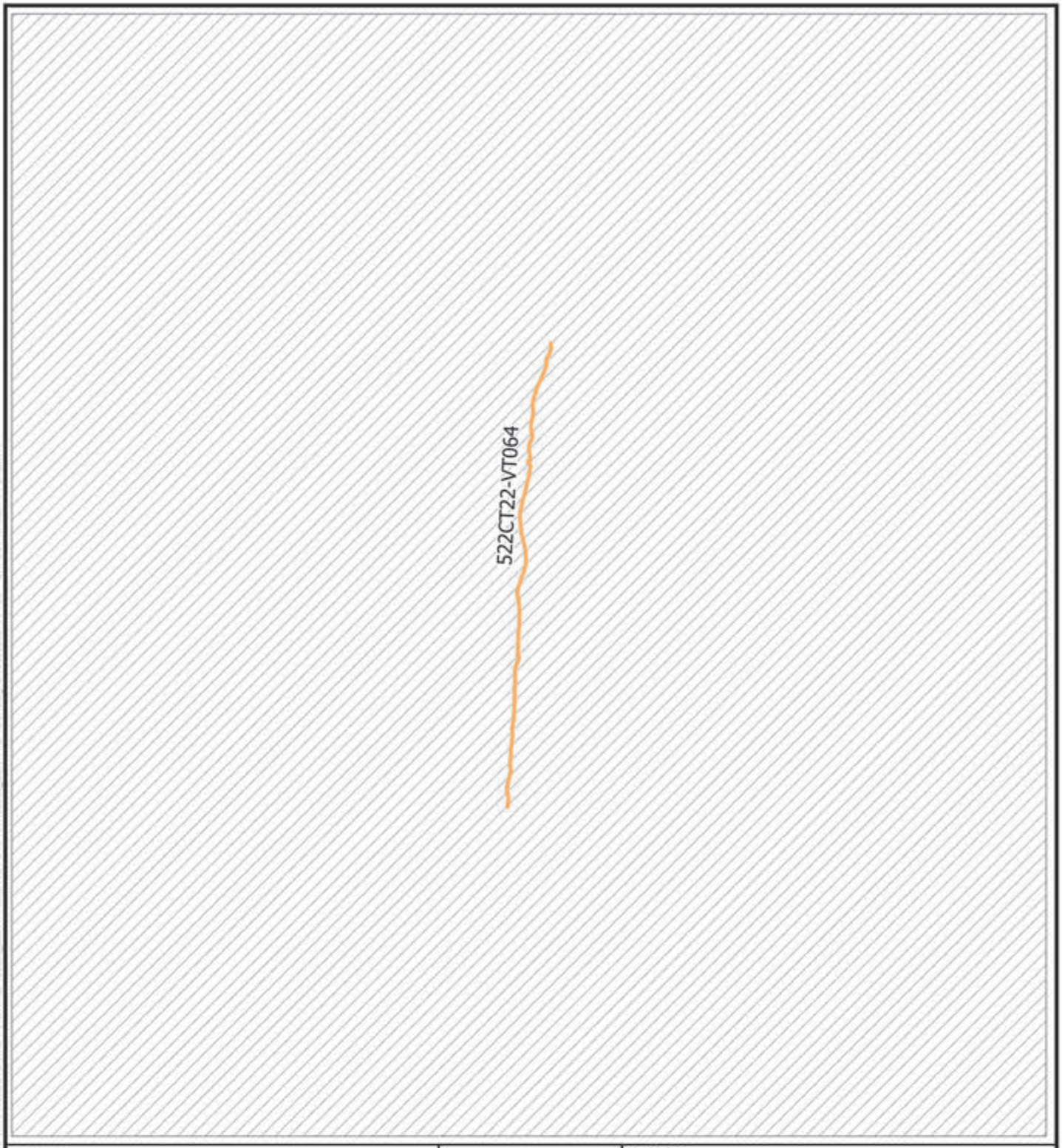
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT062	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT064

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

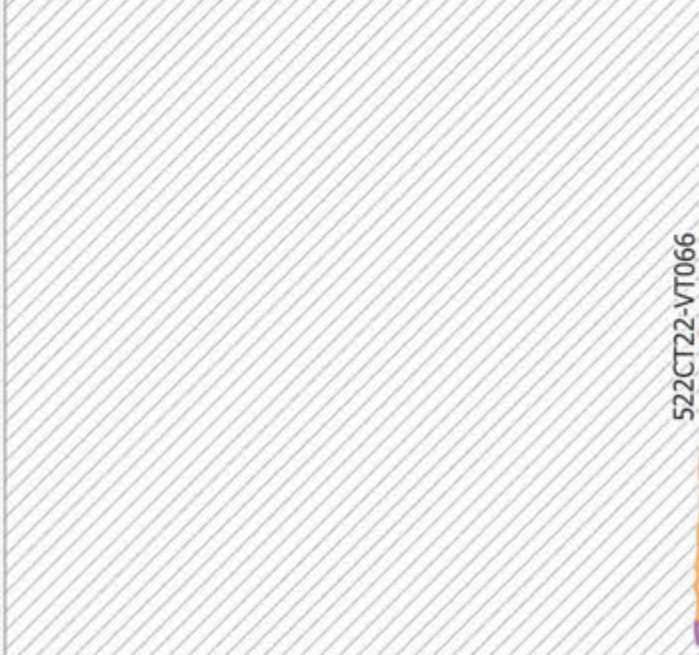
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT065	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

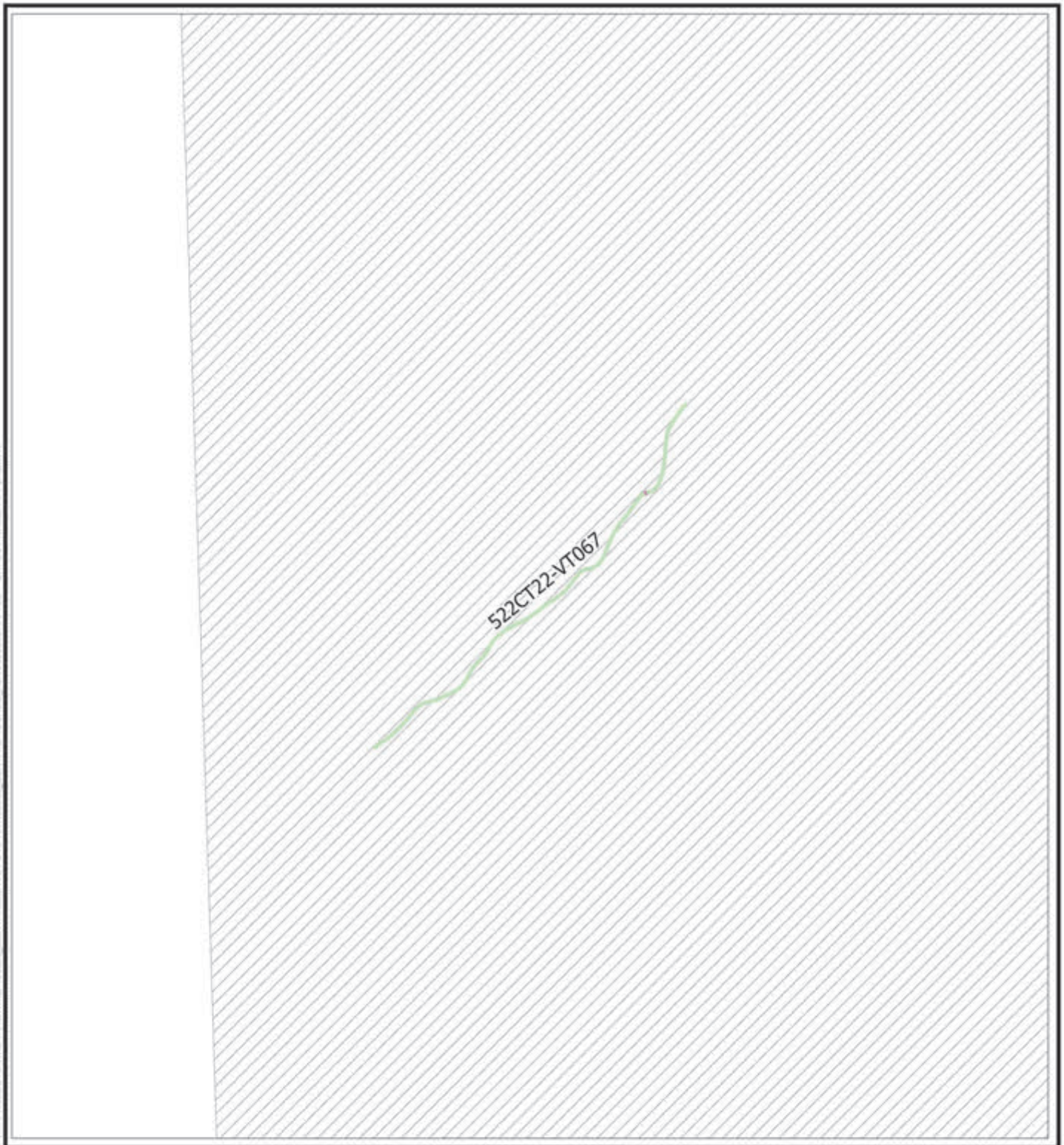
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT066

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\REVIEW\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

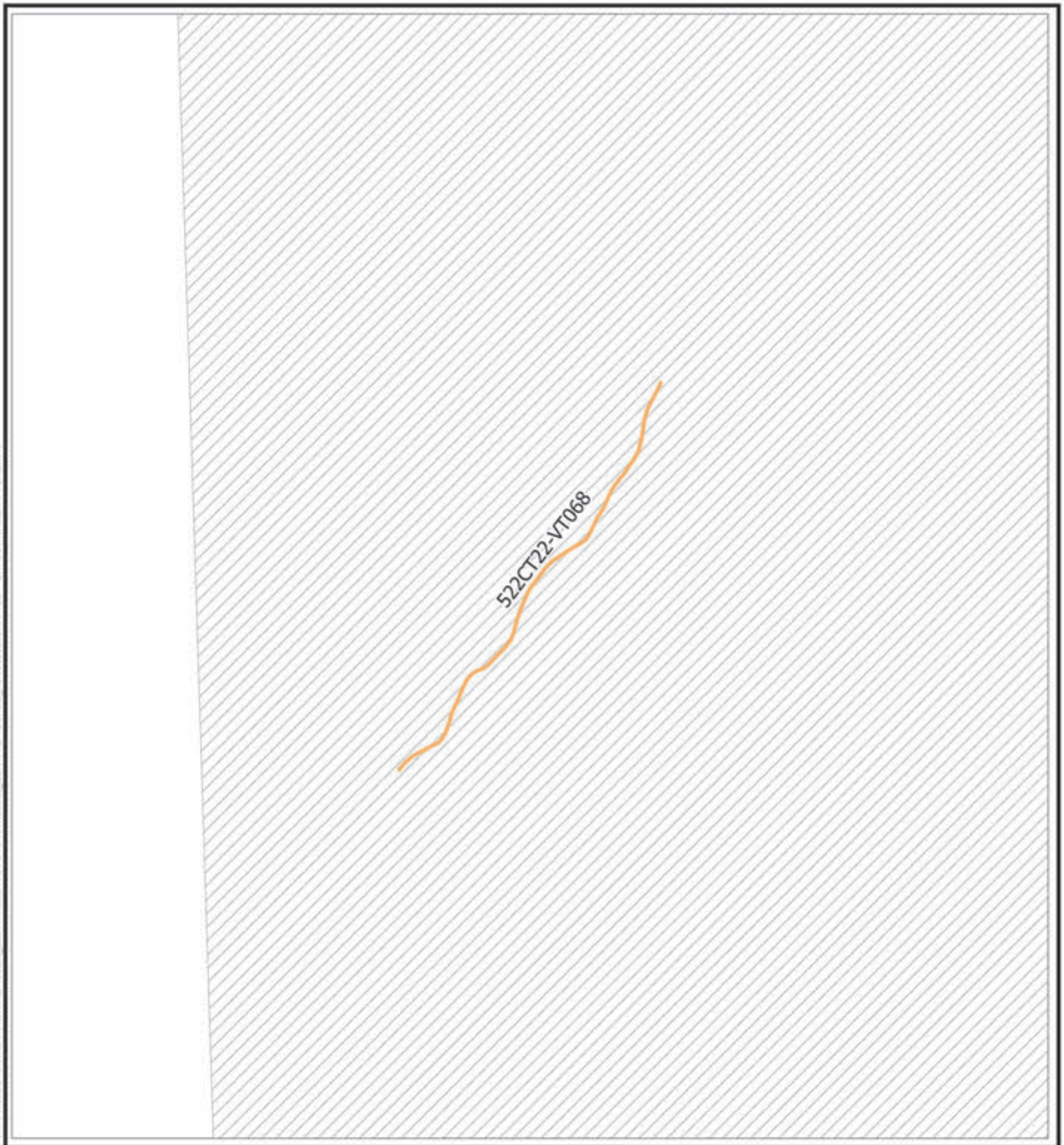
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT067	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

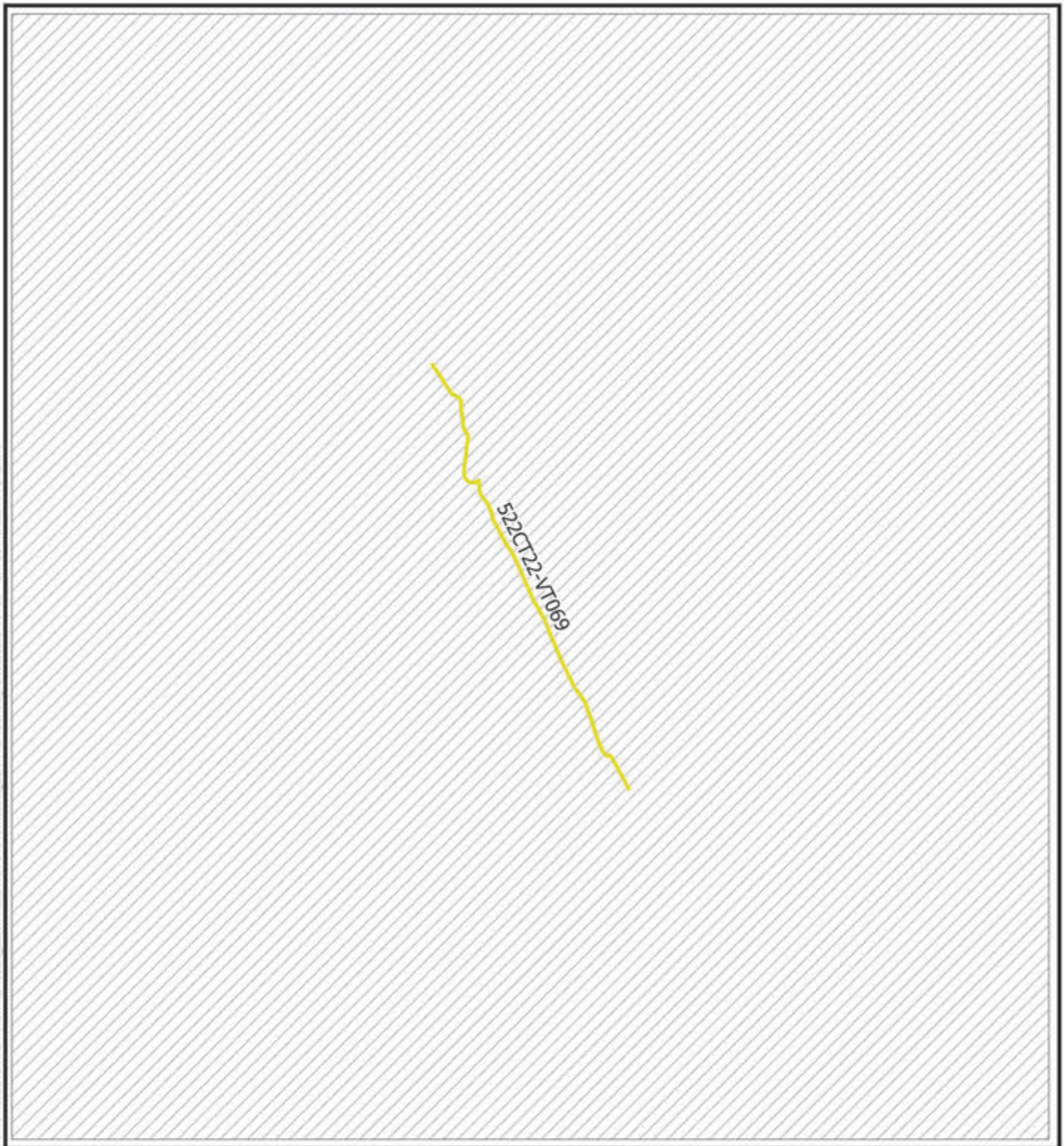
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT068

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

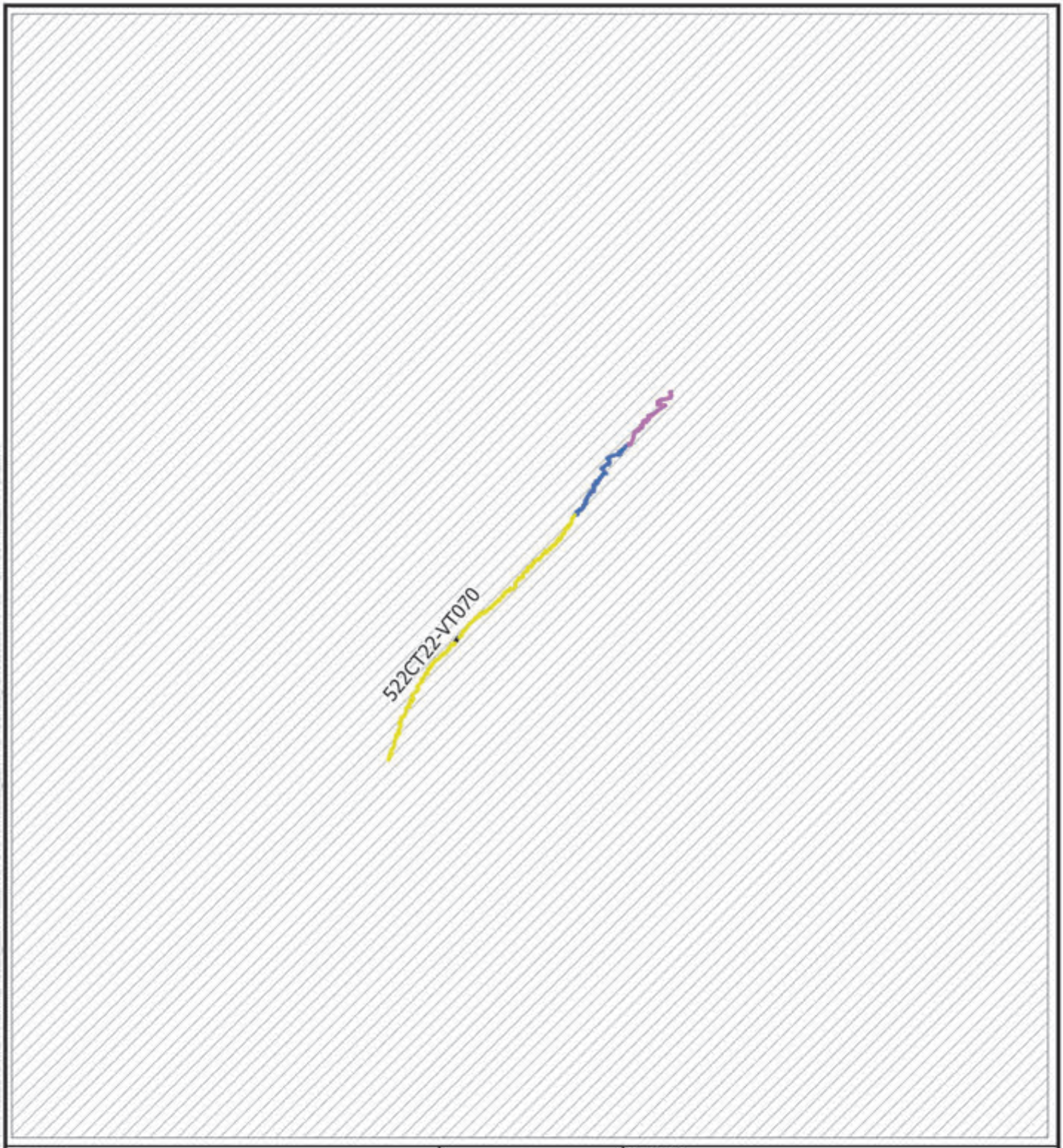
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT069

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Bedrock
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

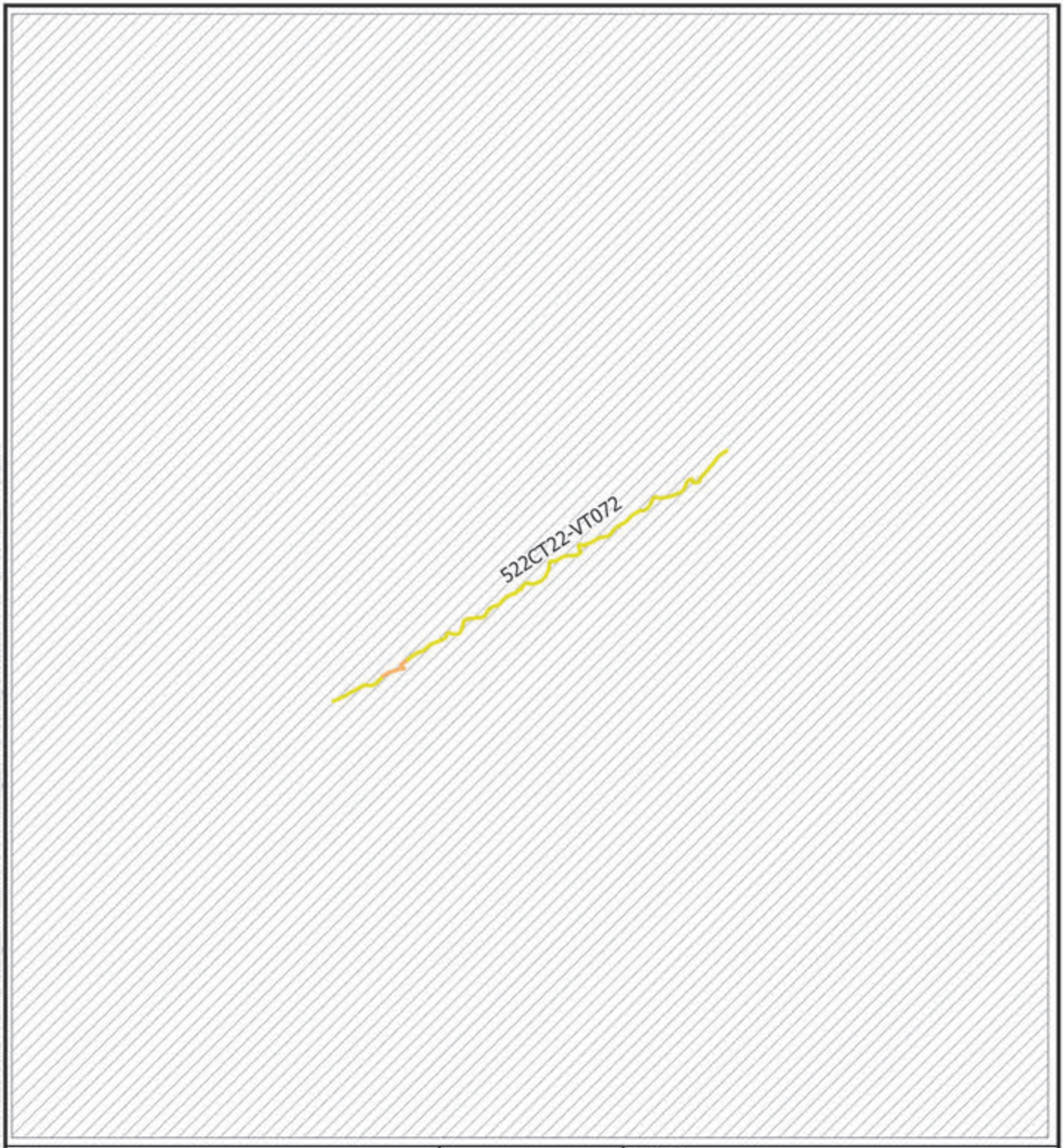
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT070

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

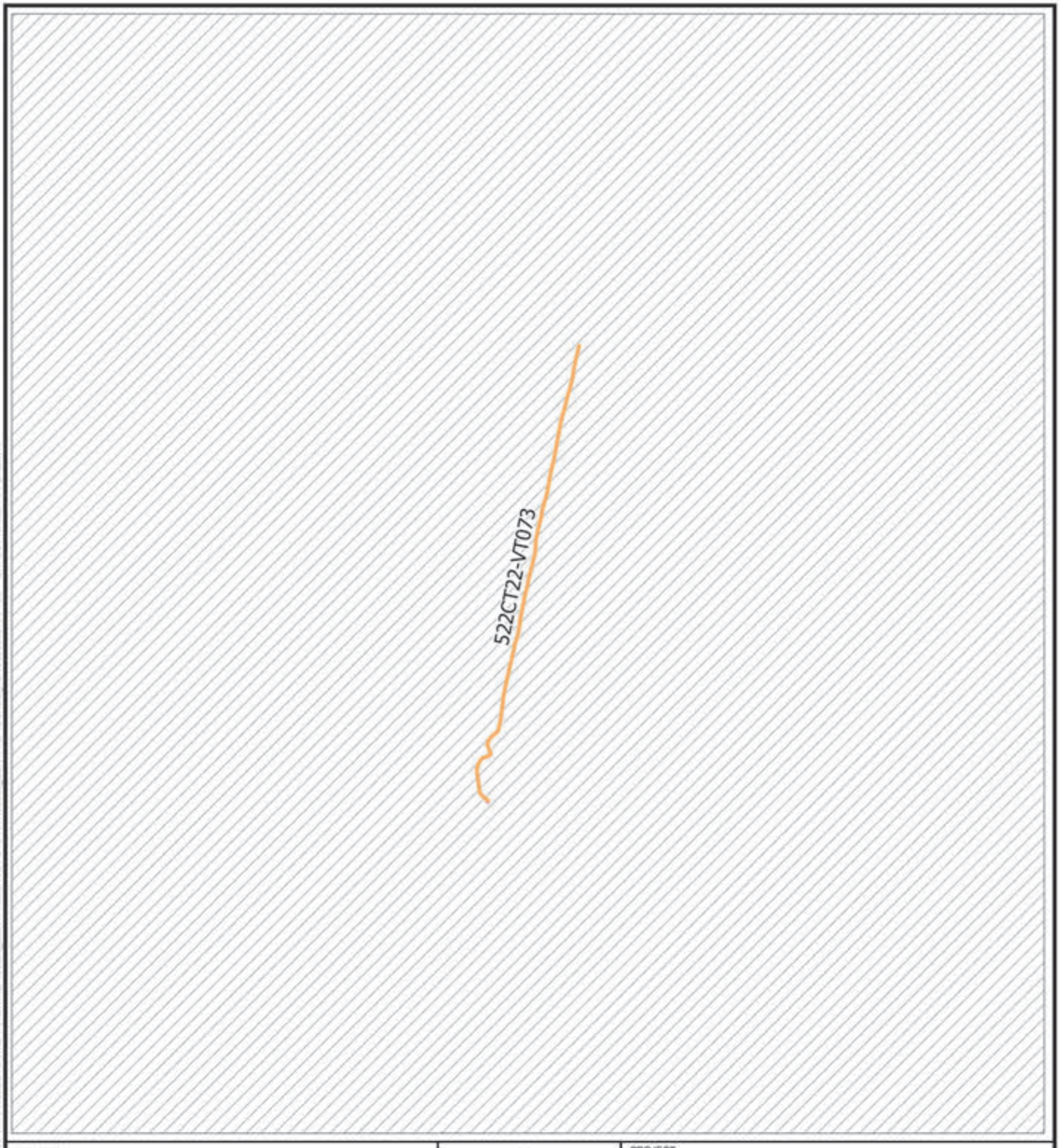
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT072

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT073	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

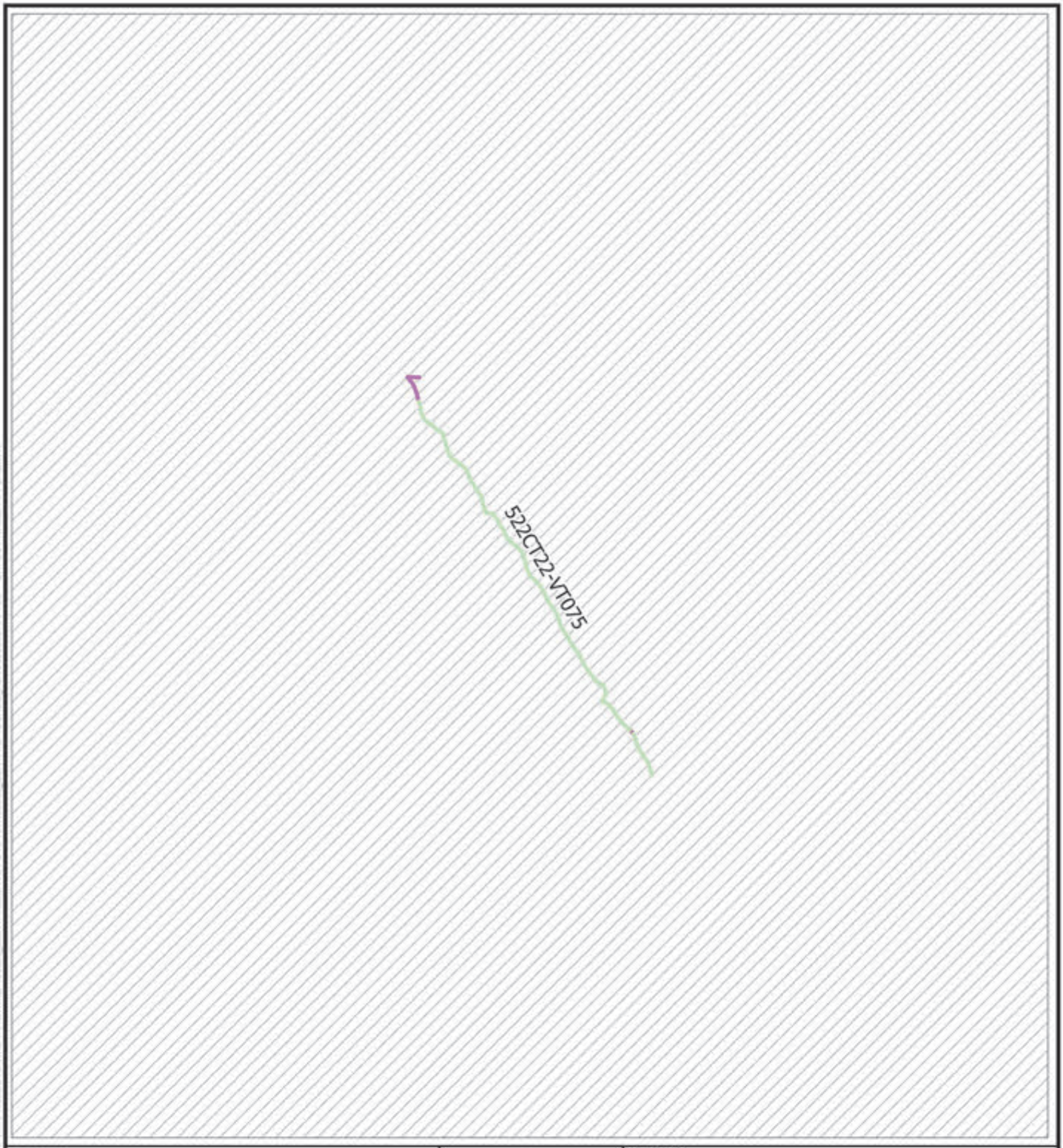
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT074

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT075

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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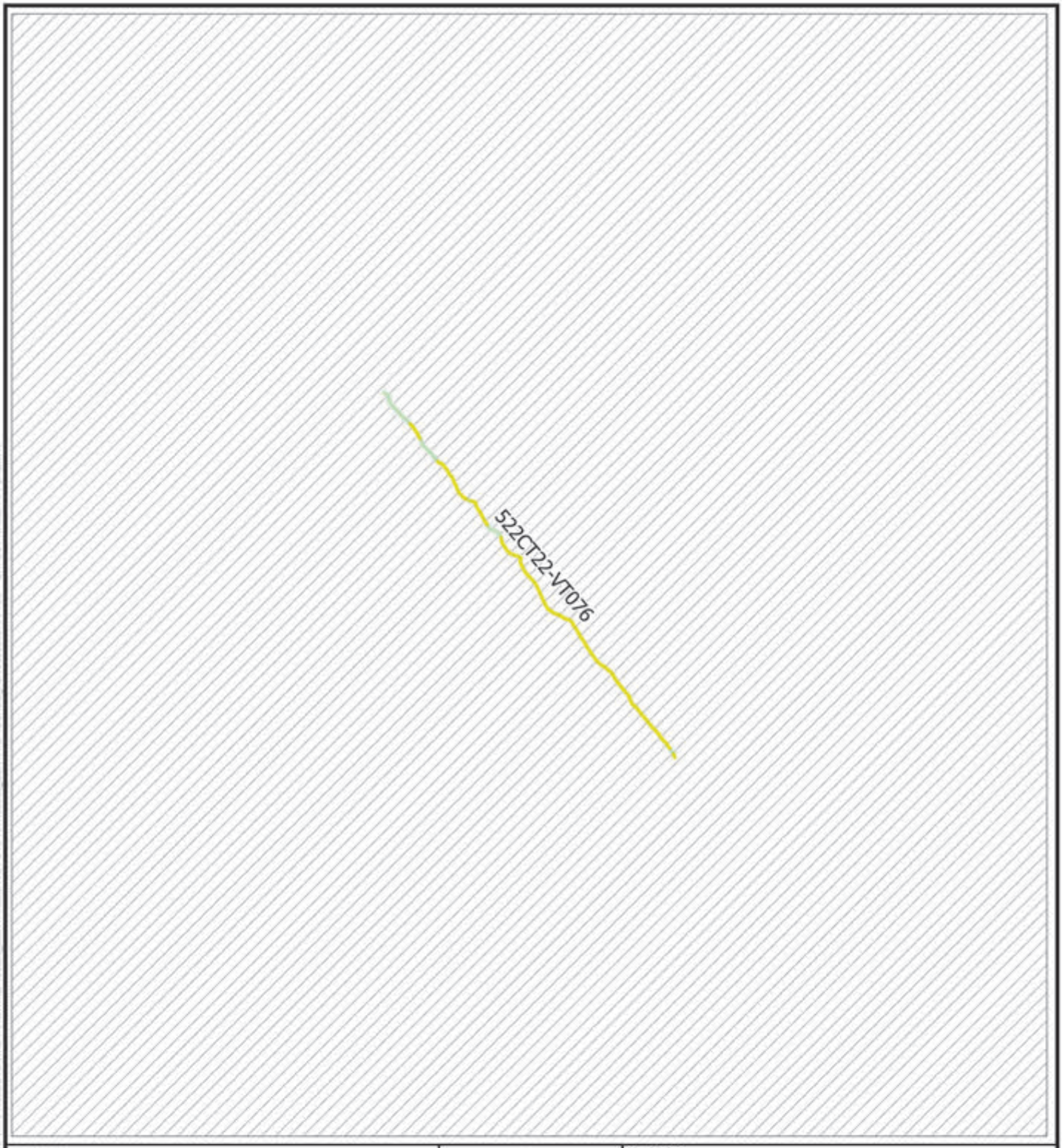


CT Offshore Export Cable Corridor
Muddy Sand
Shell

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

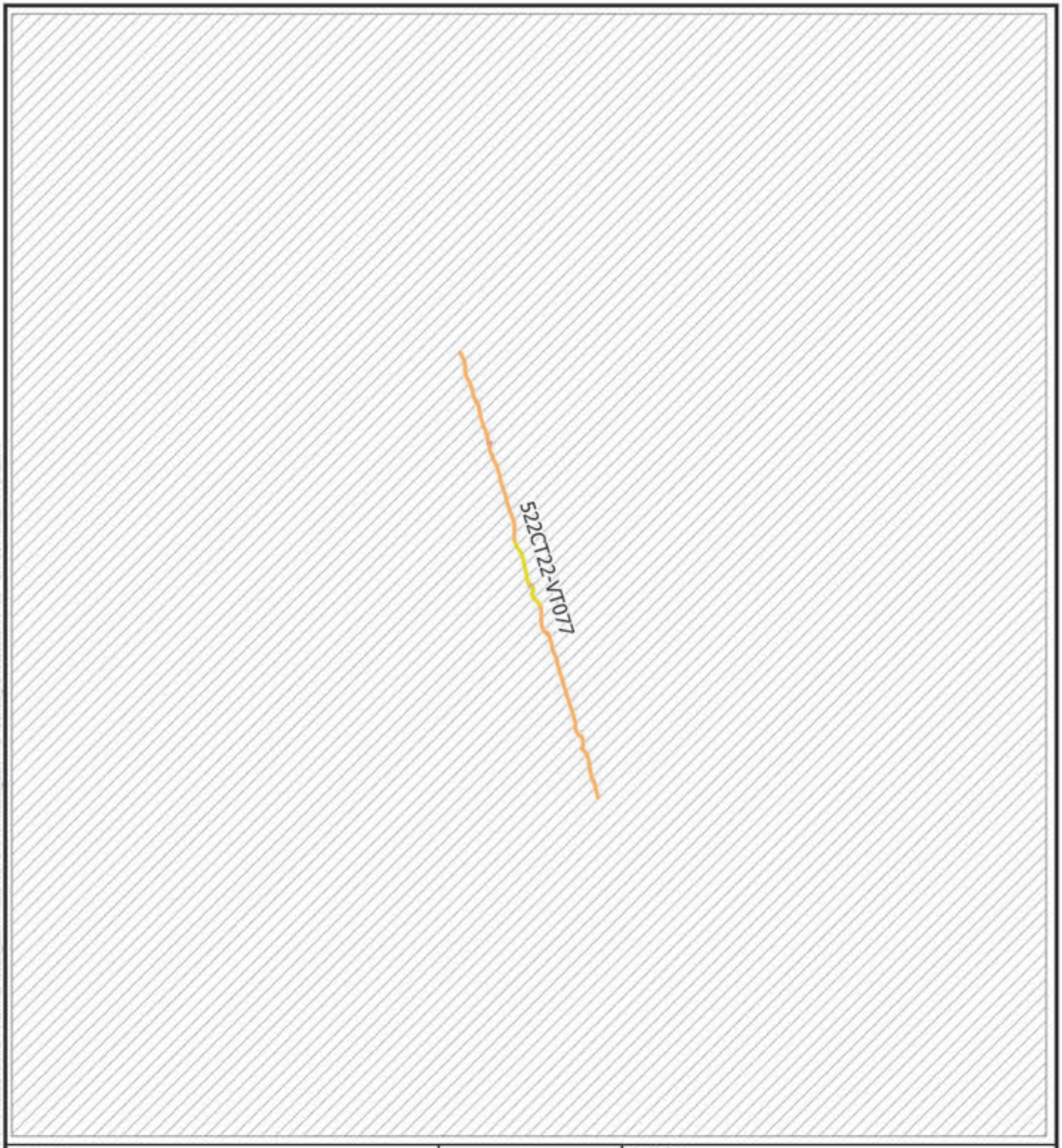
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT076

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT077

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT078

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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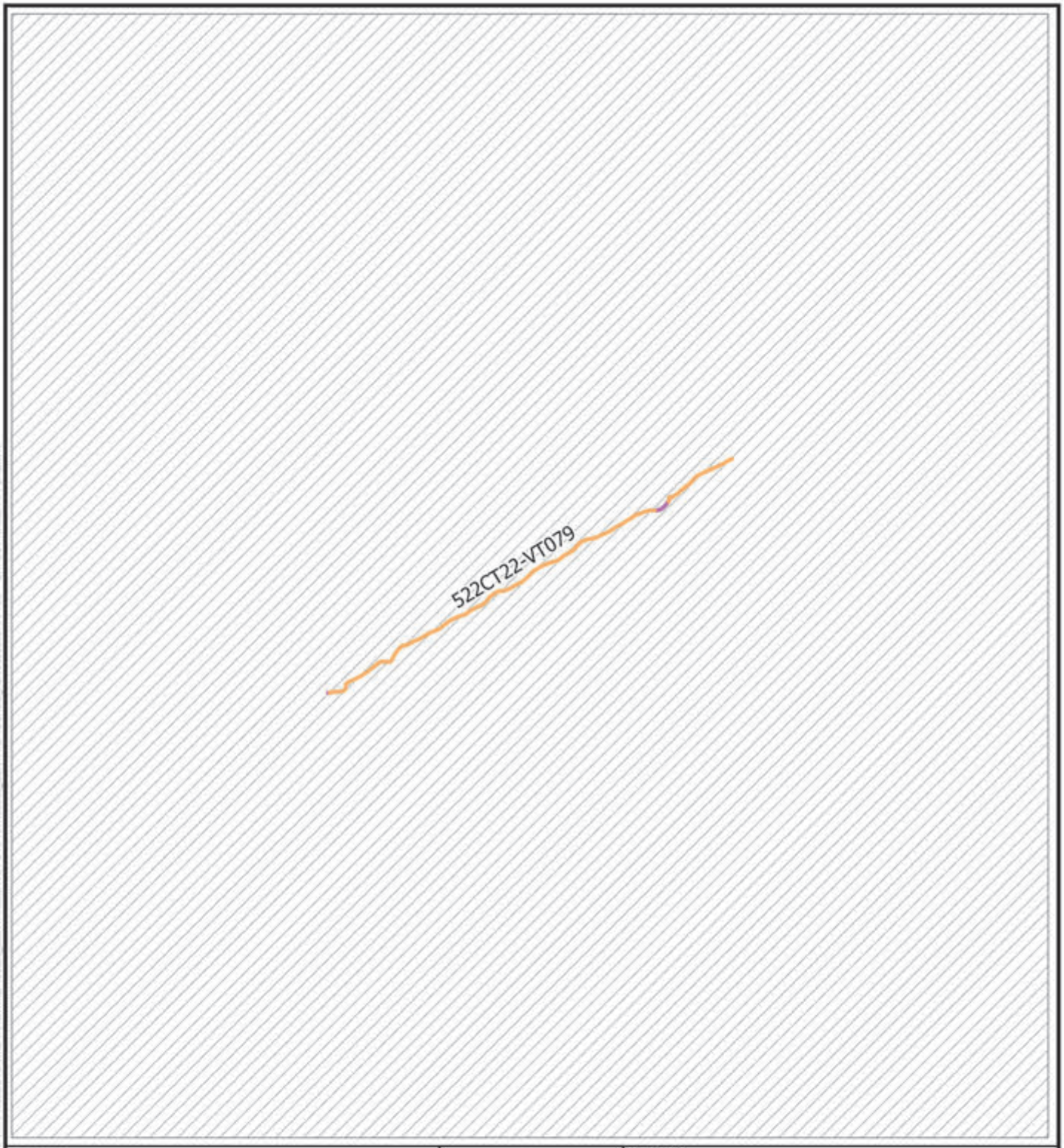


CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

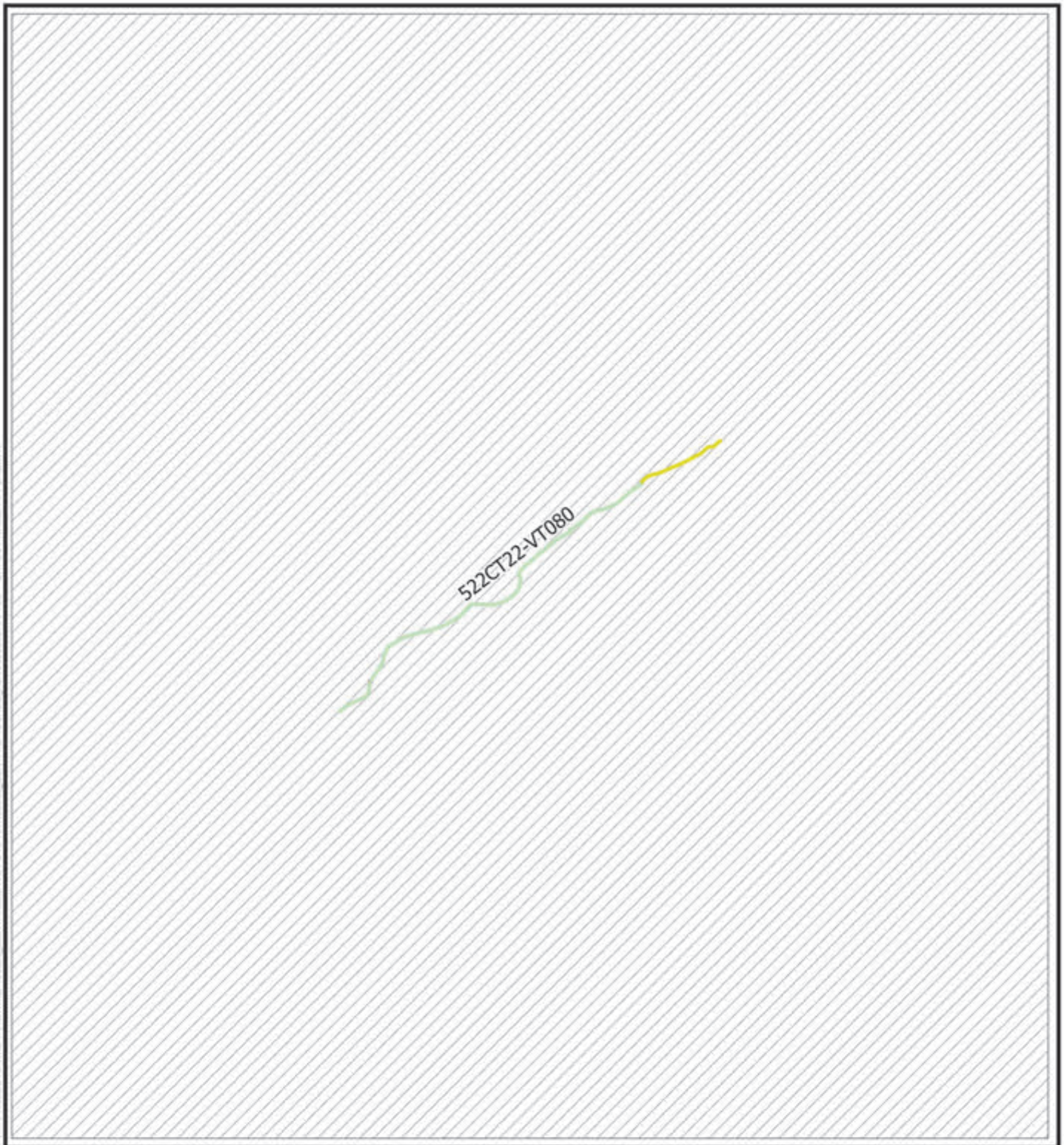
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT079

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

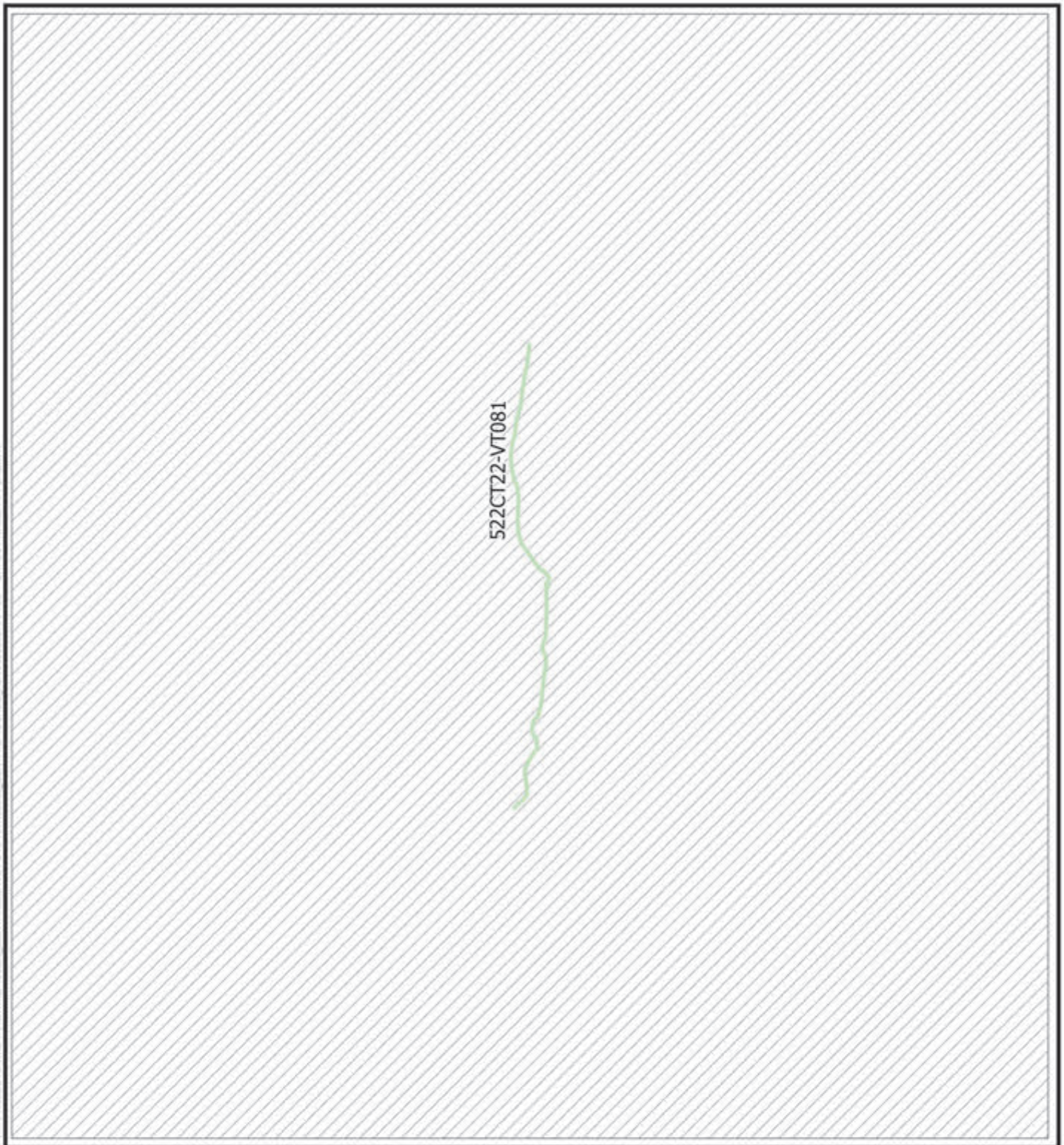
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT080

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

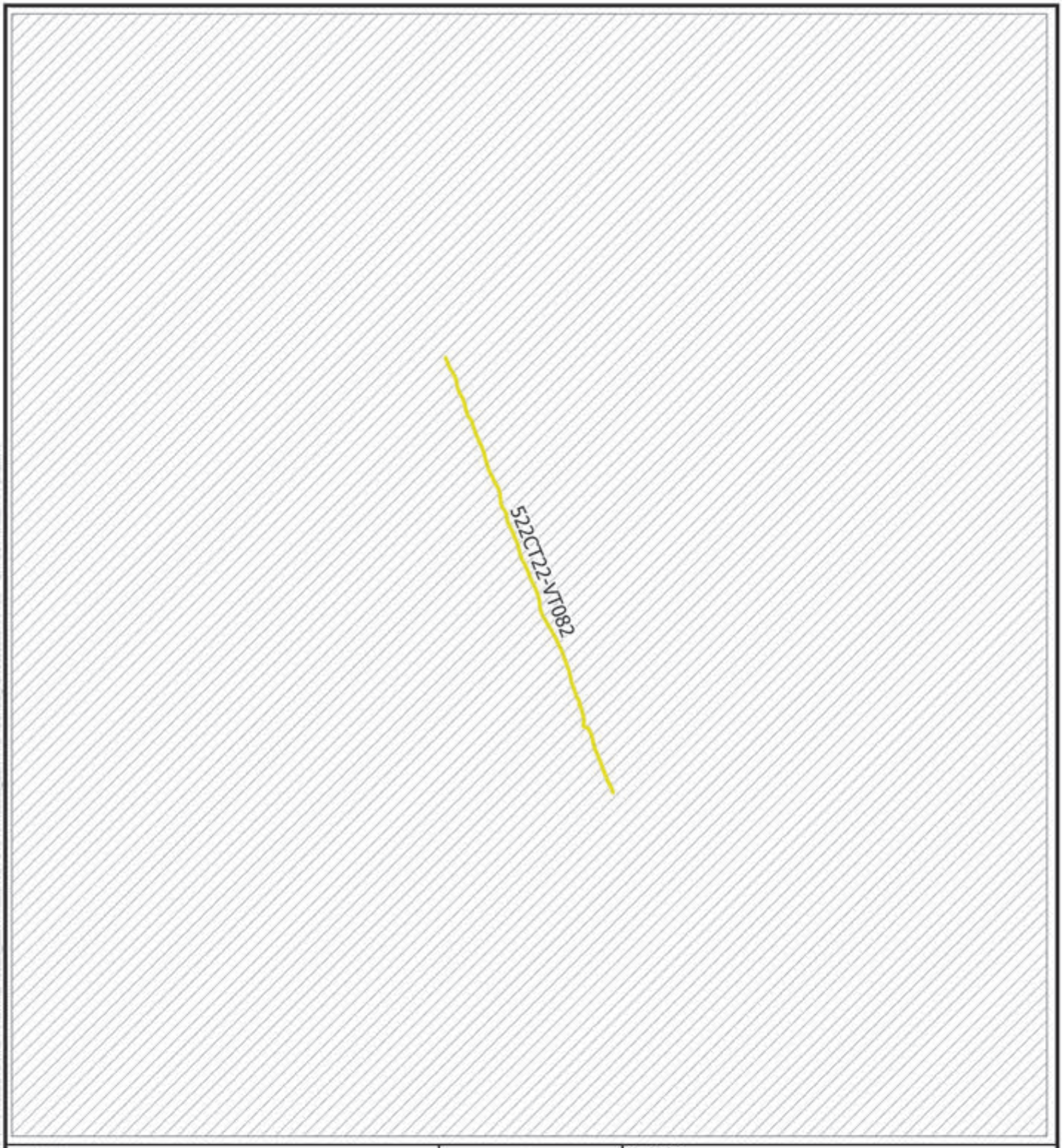
Appendix O
Transect: 522CT22-VT081

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

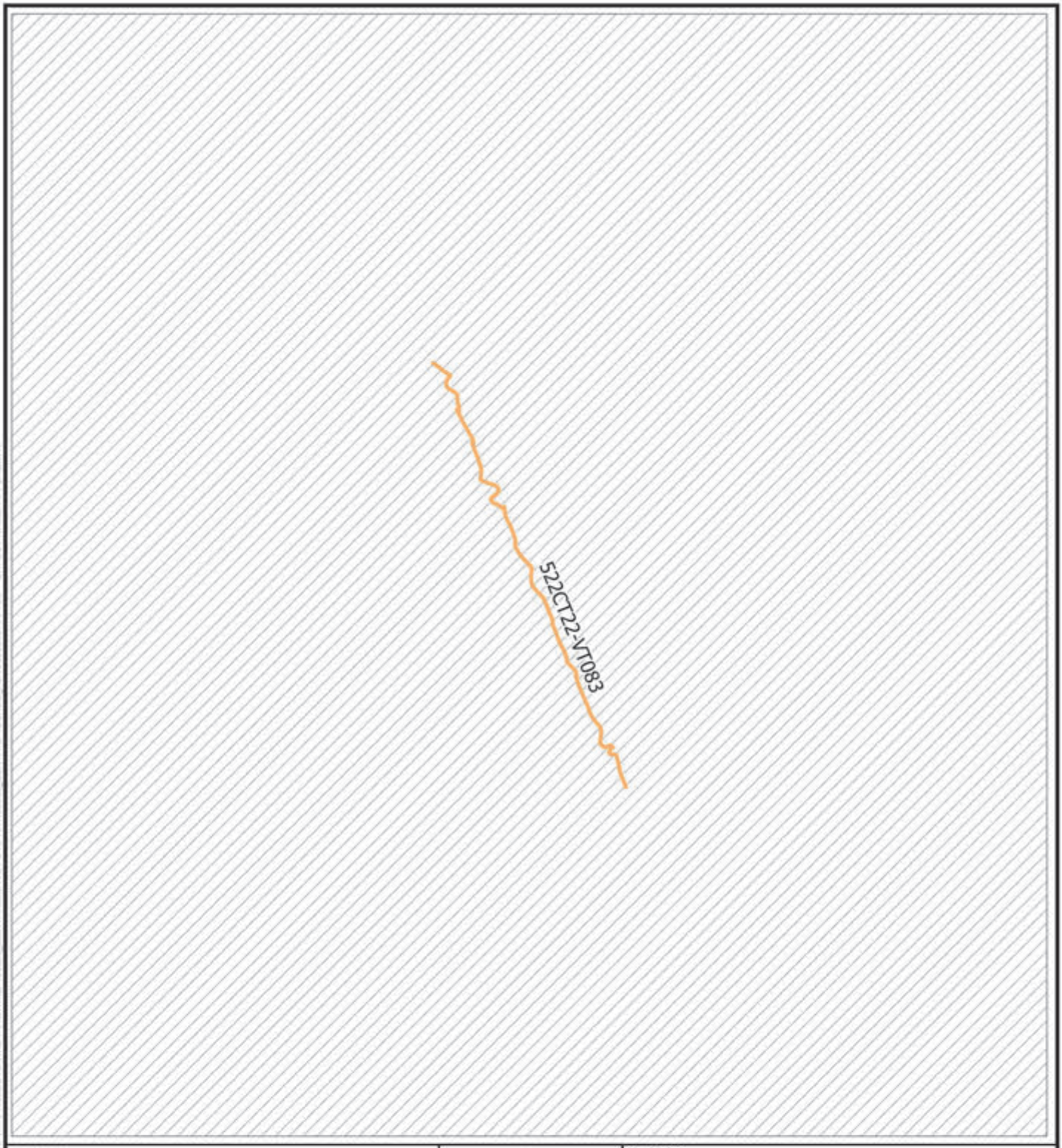
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT082

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT083

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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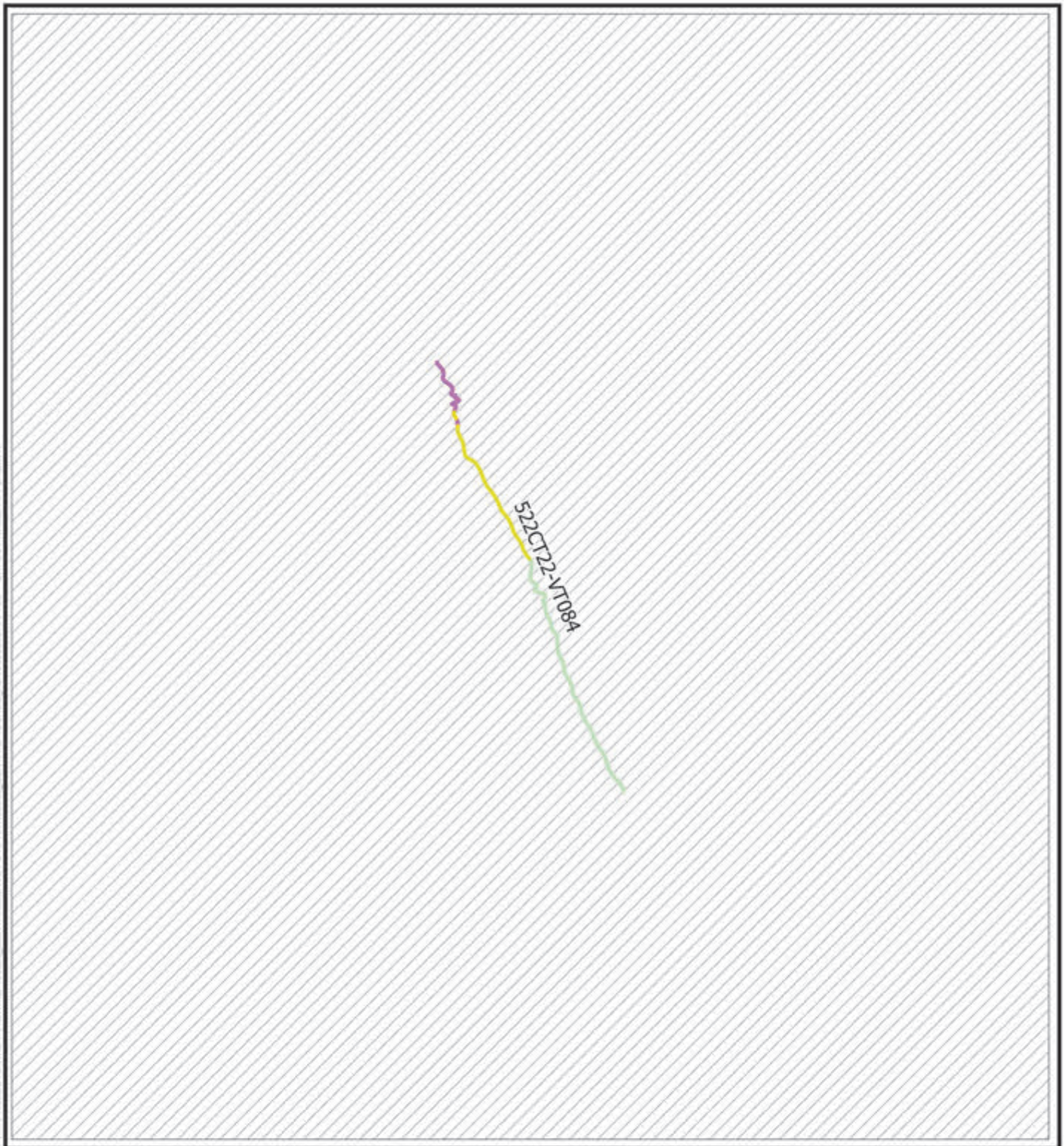


CT Offshore Export Cable Corridor
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

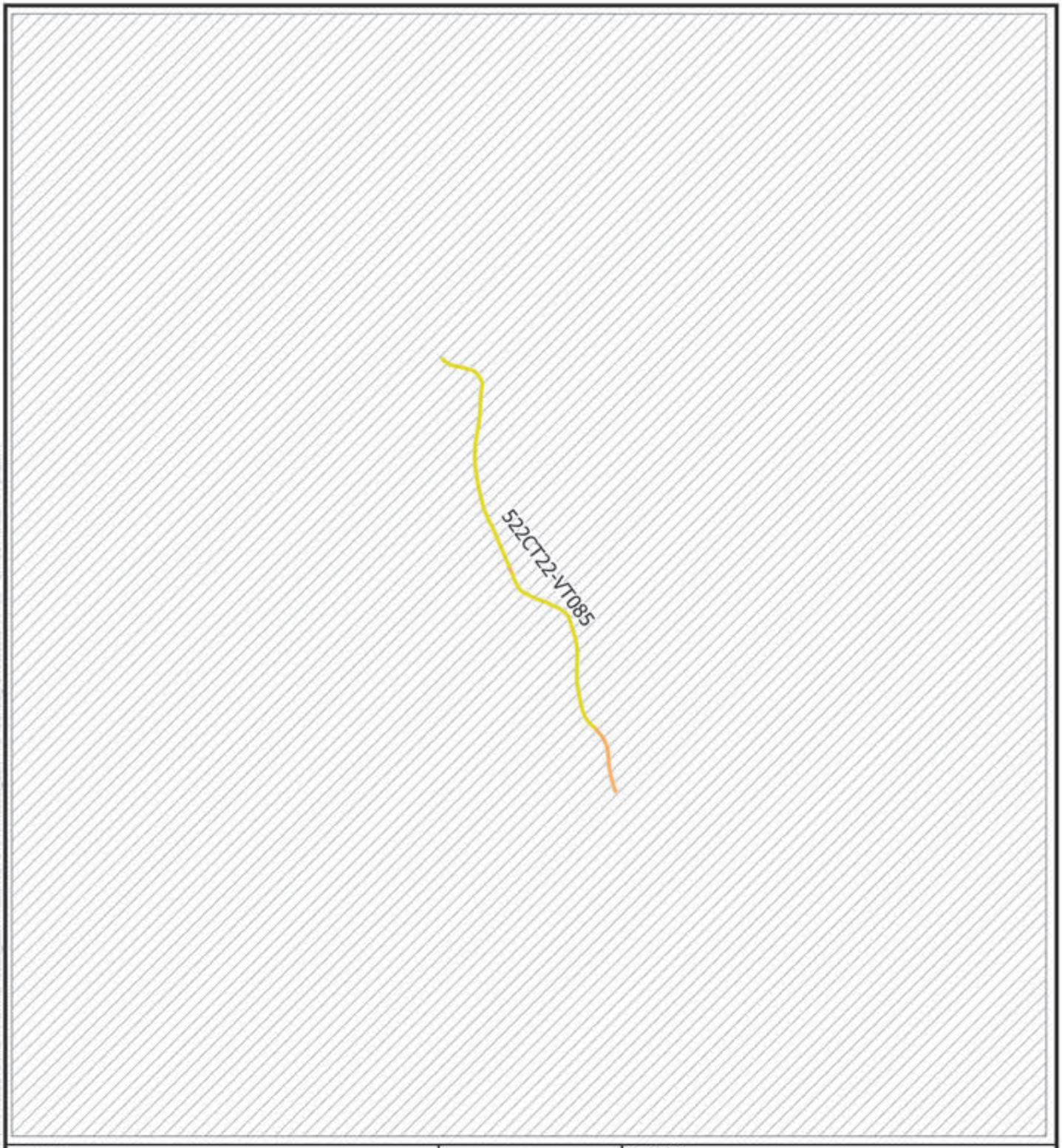
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT084

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

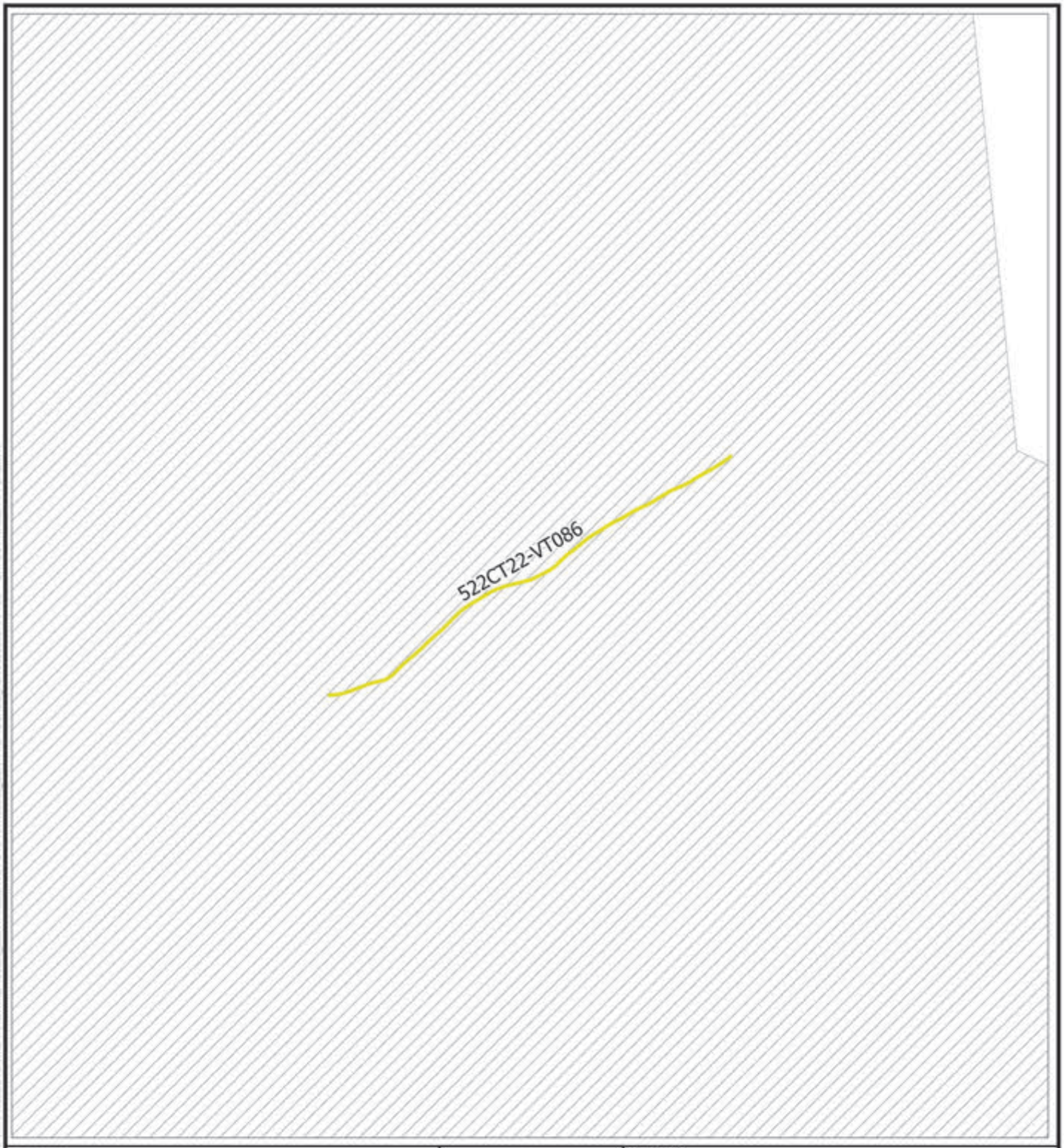
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT085

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT086

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

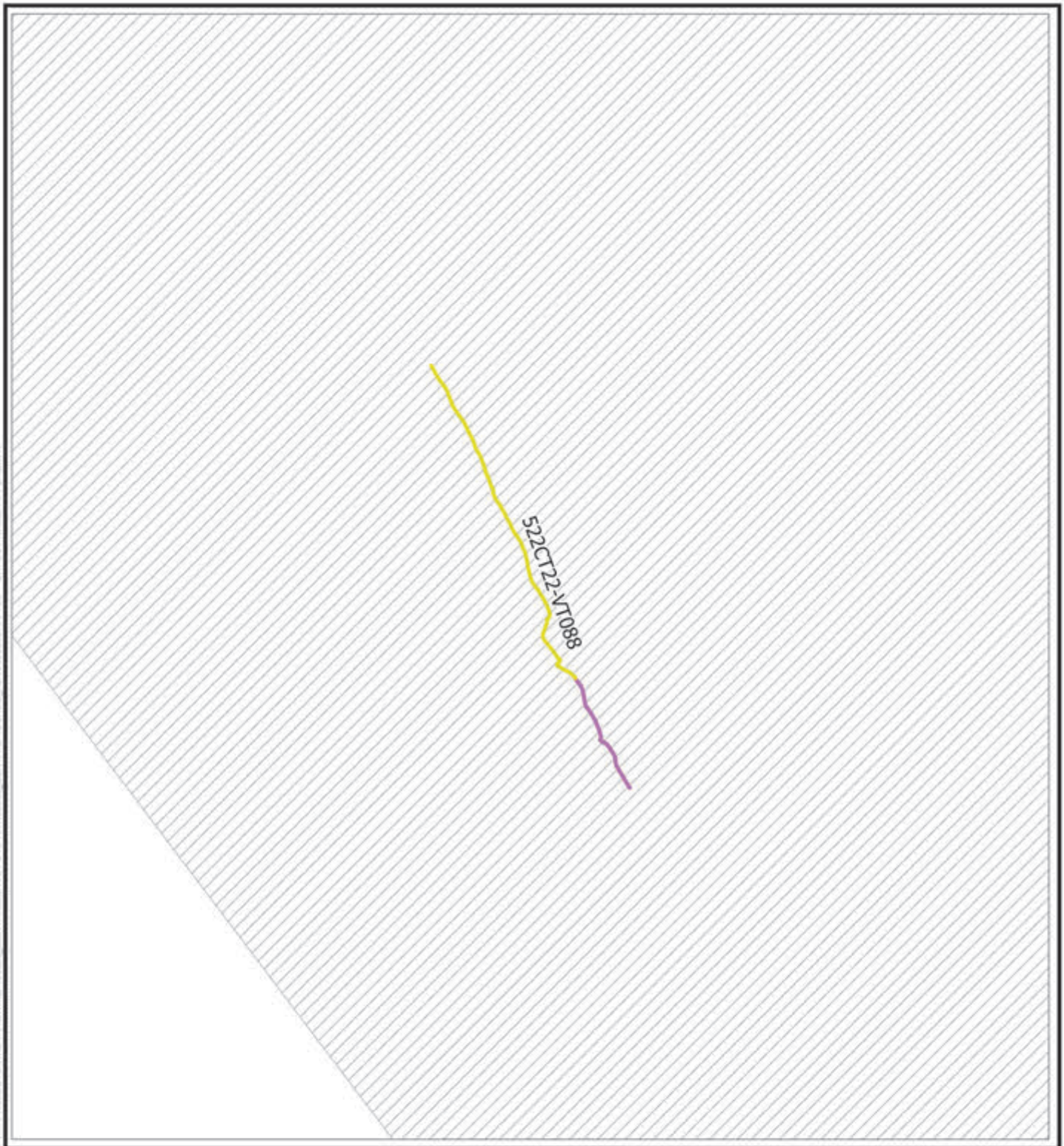
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT087	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

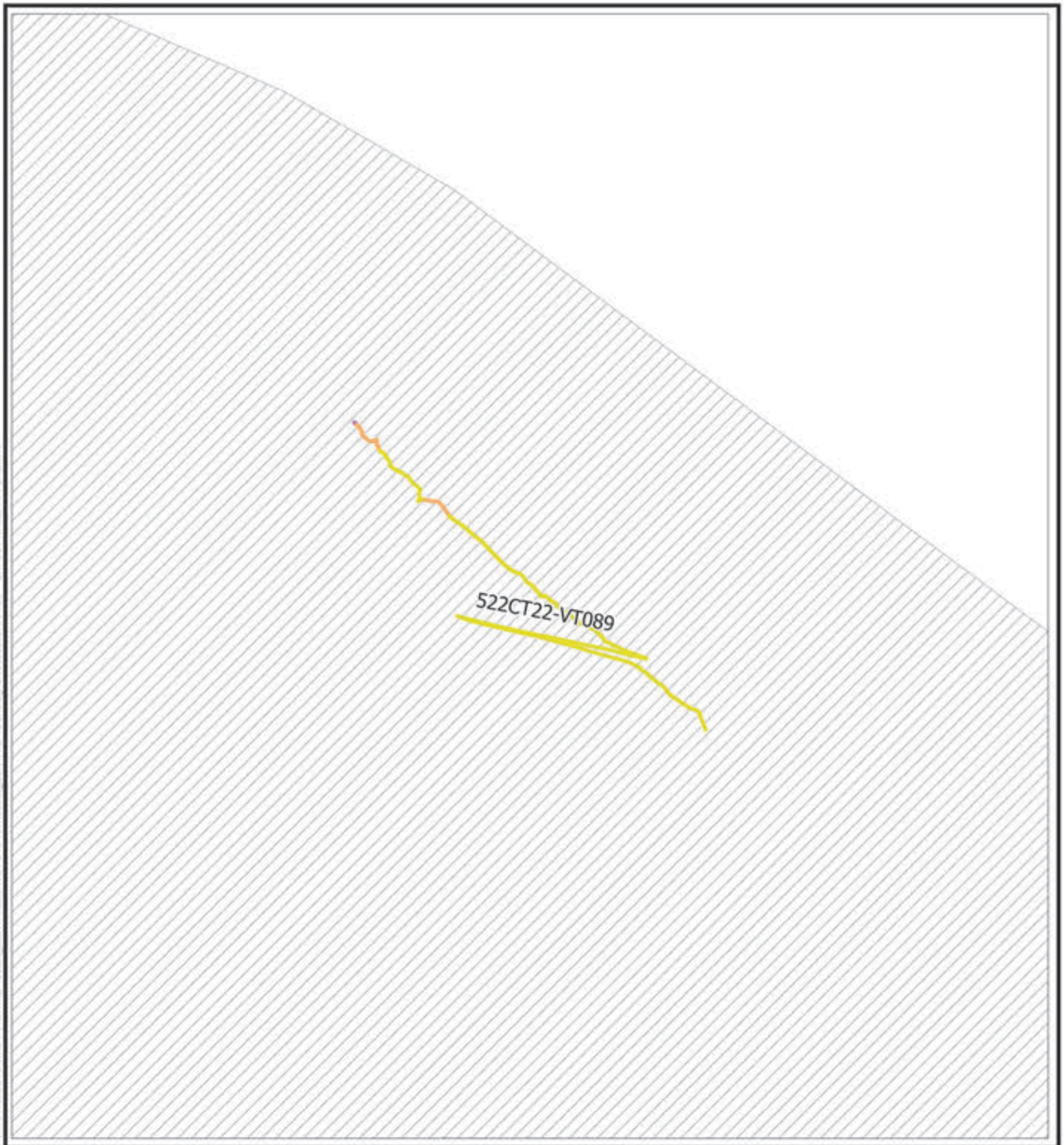
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT088	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT089	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
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BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

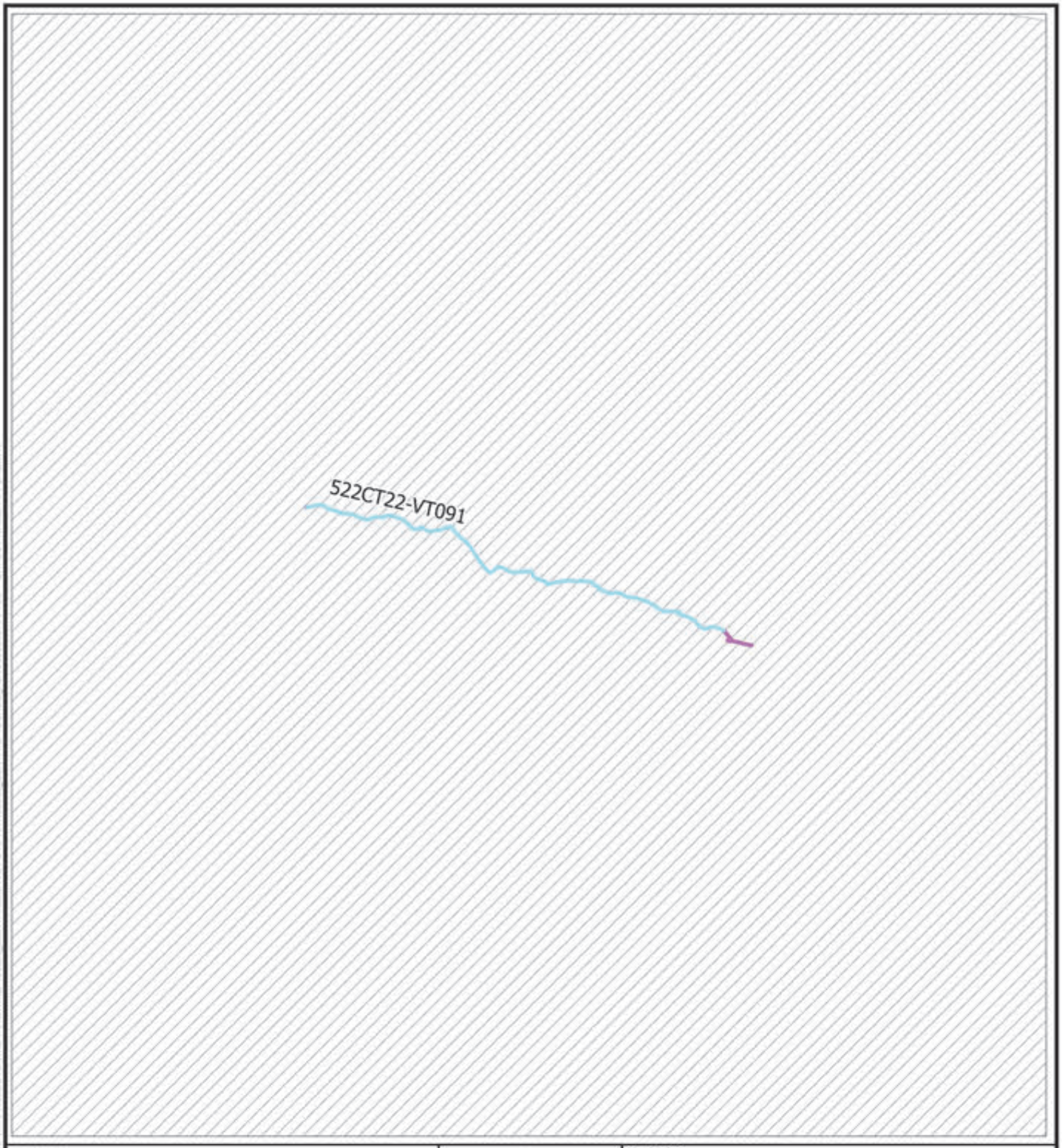
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT090

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

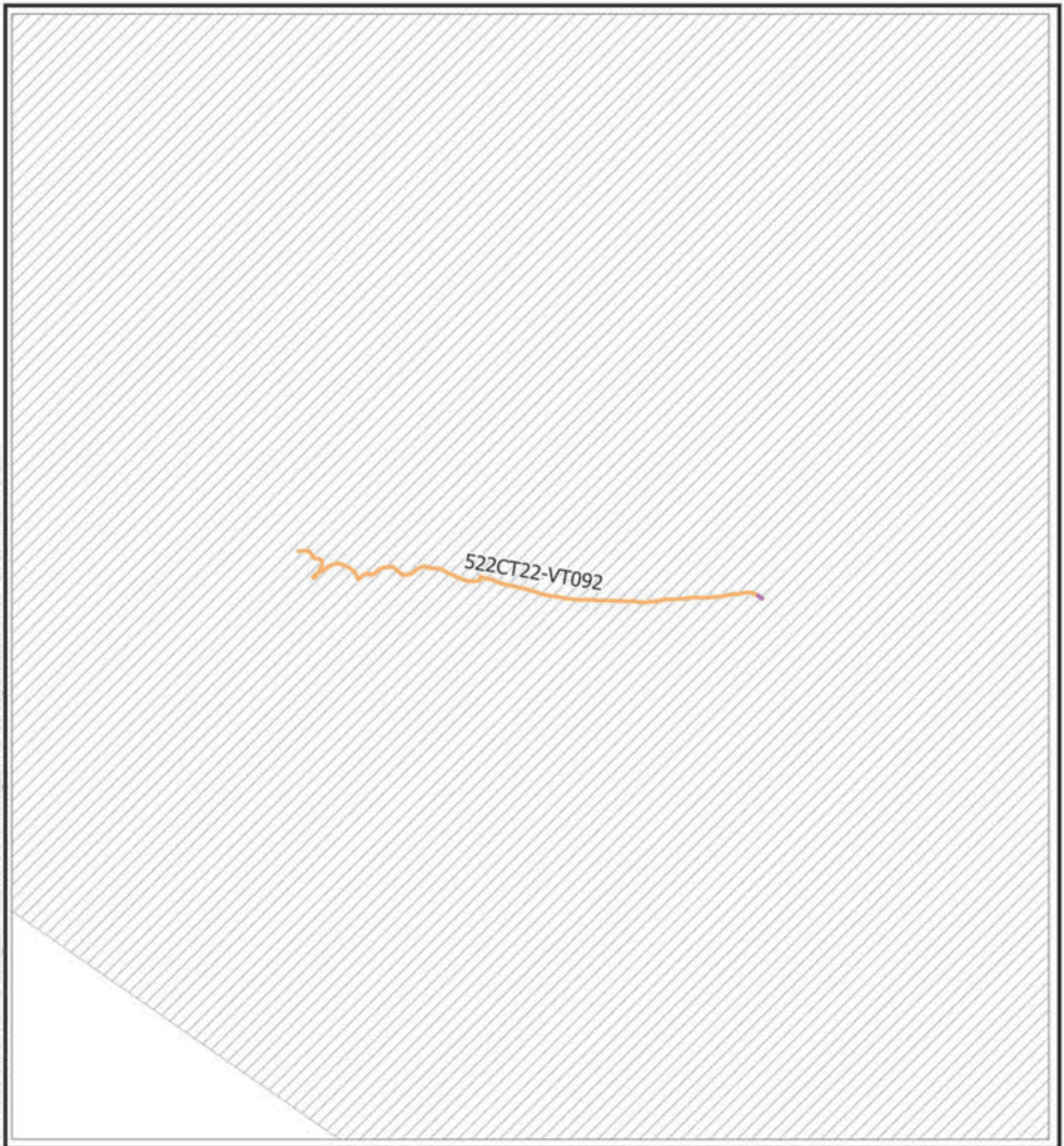
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT091

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\SUNRISEWIND\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT092

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
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PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

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Appendix O
Transect: 522CT22-VT093

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
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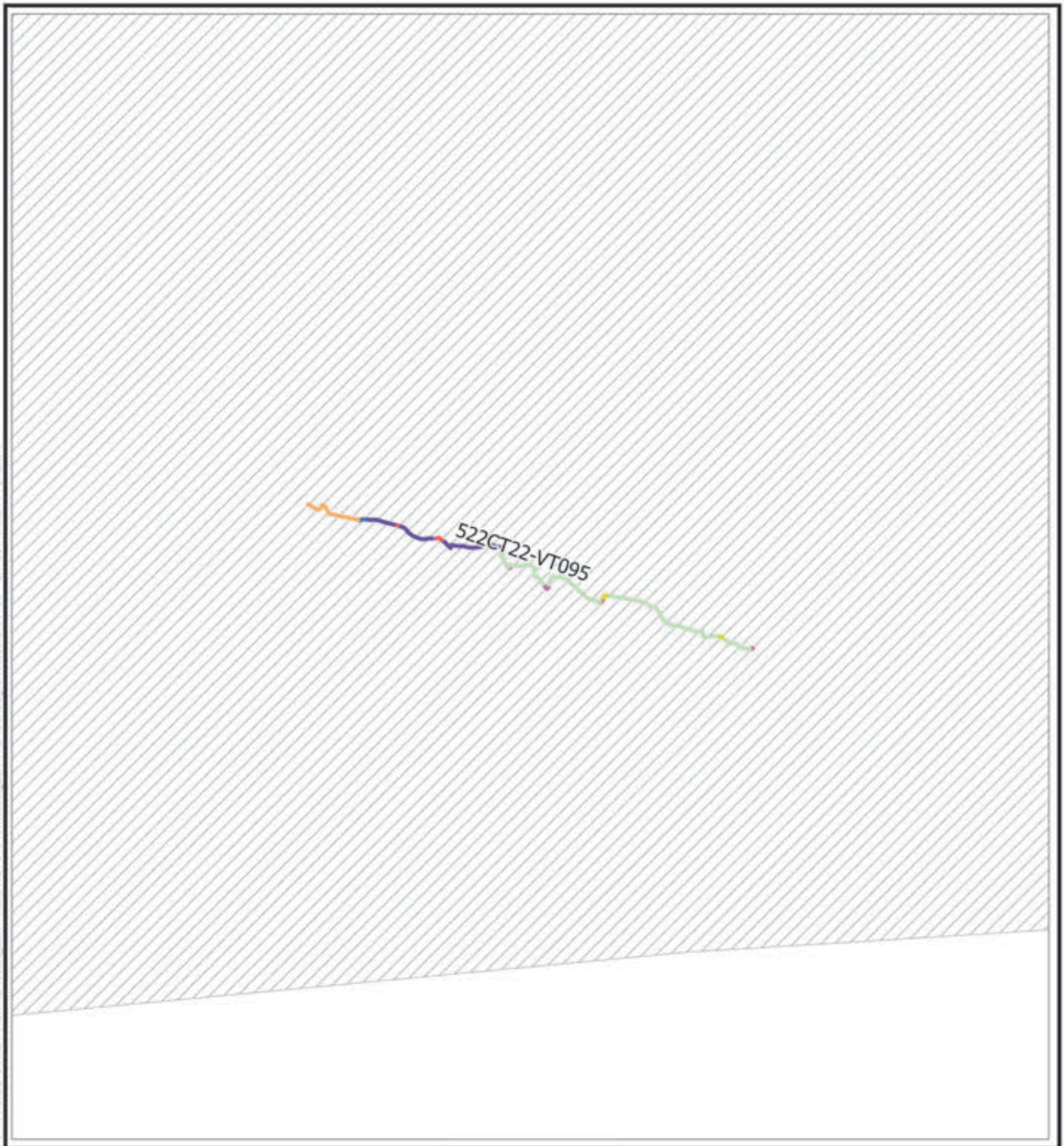
Appendix O
Transect: 522CT22-VT094

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

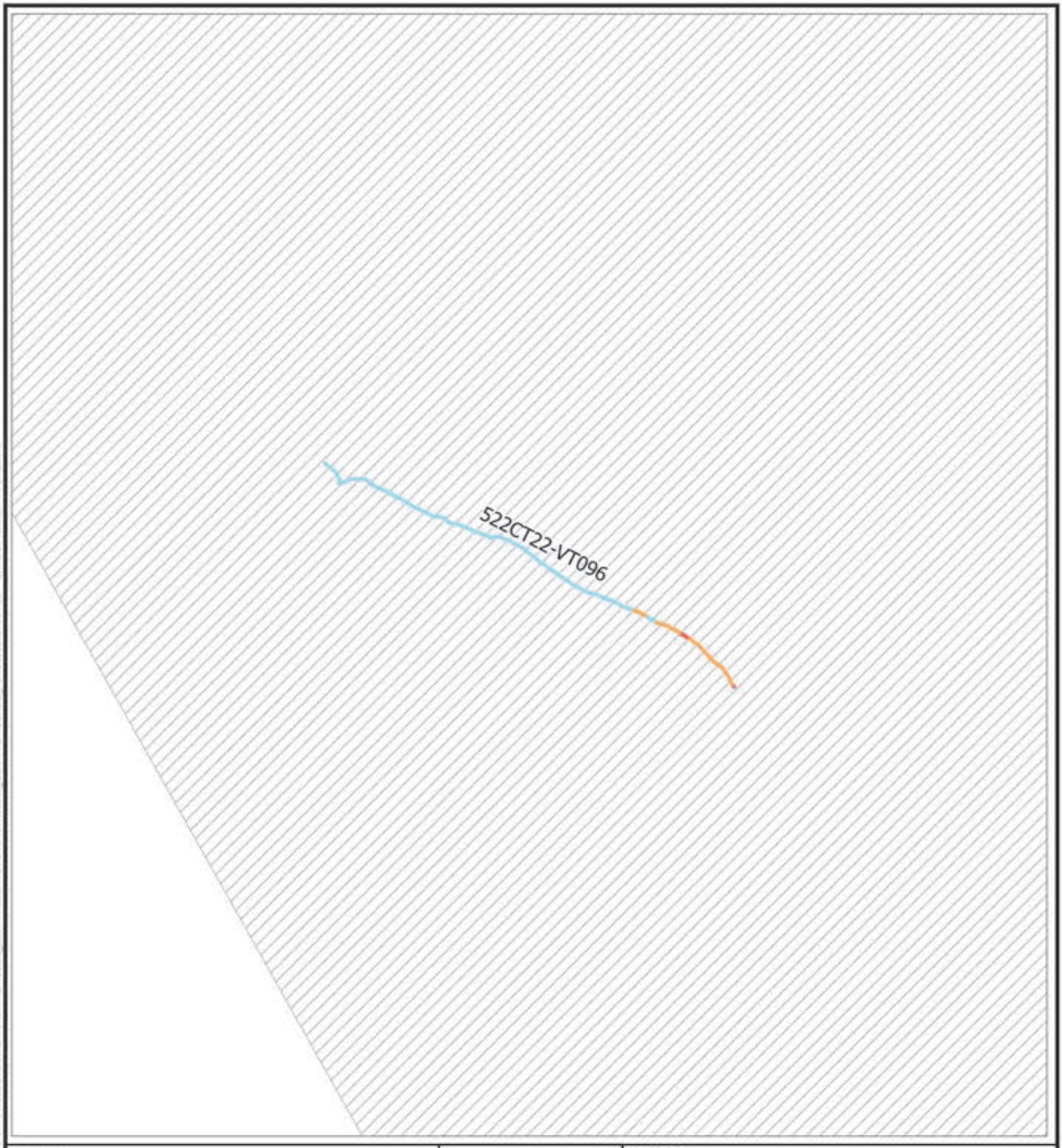
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT095

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 11:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

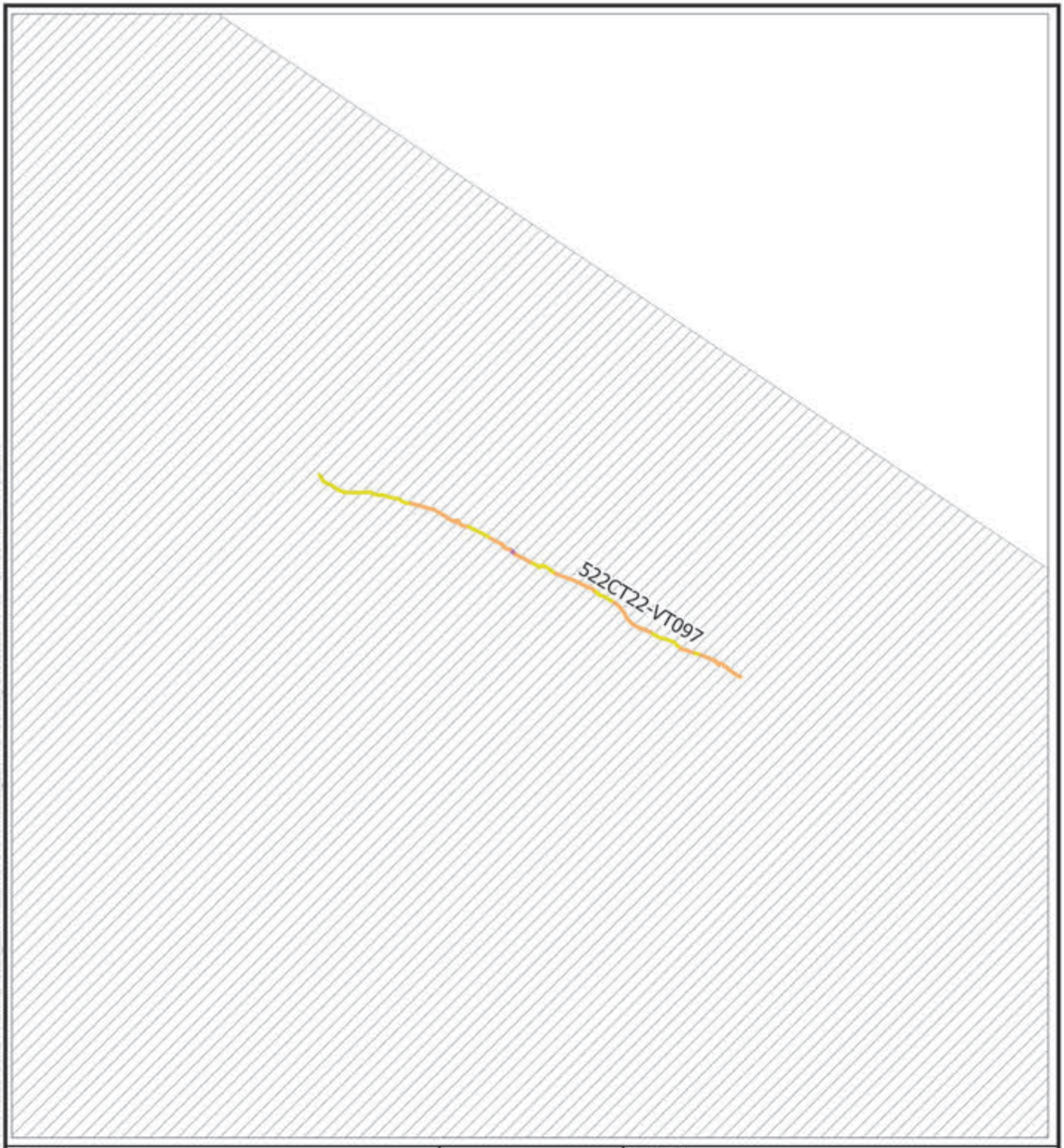
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT096

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

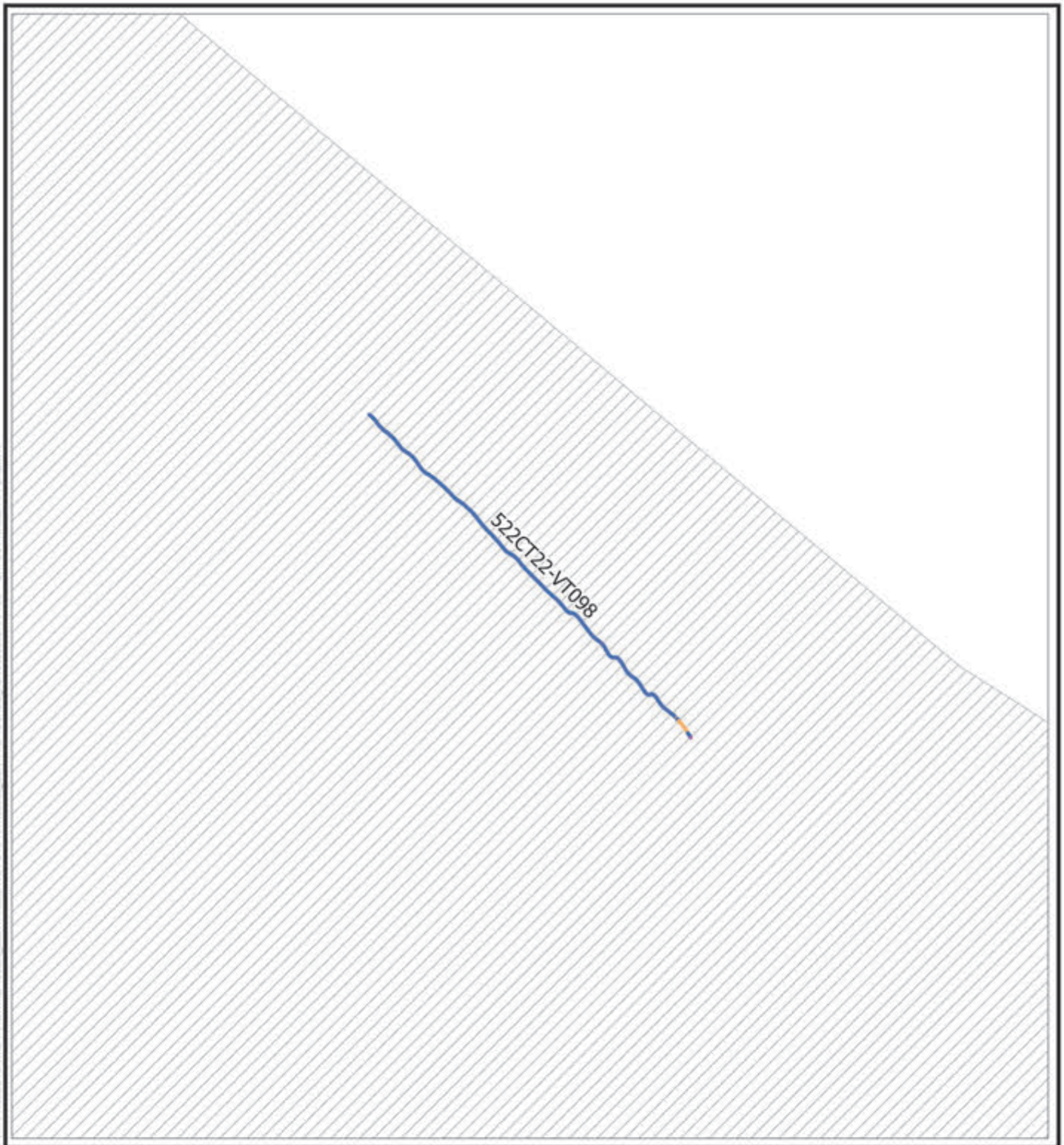
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT097	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

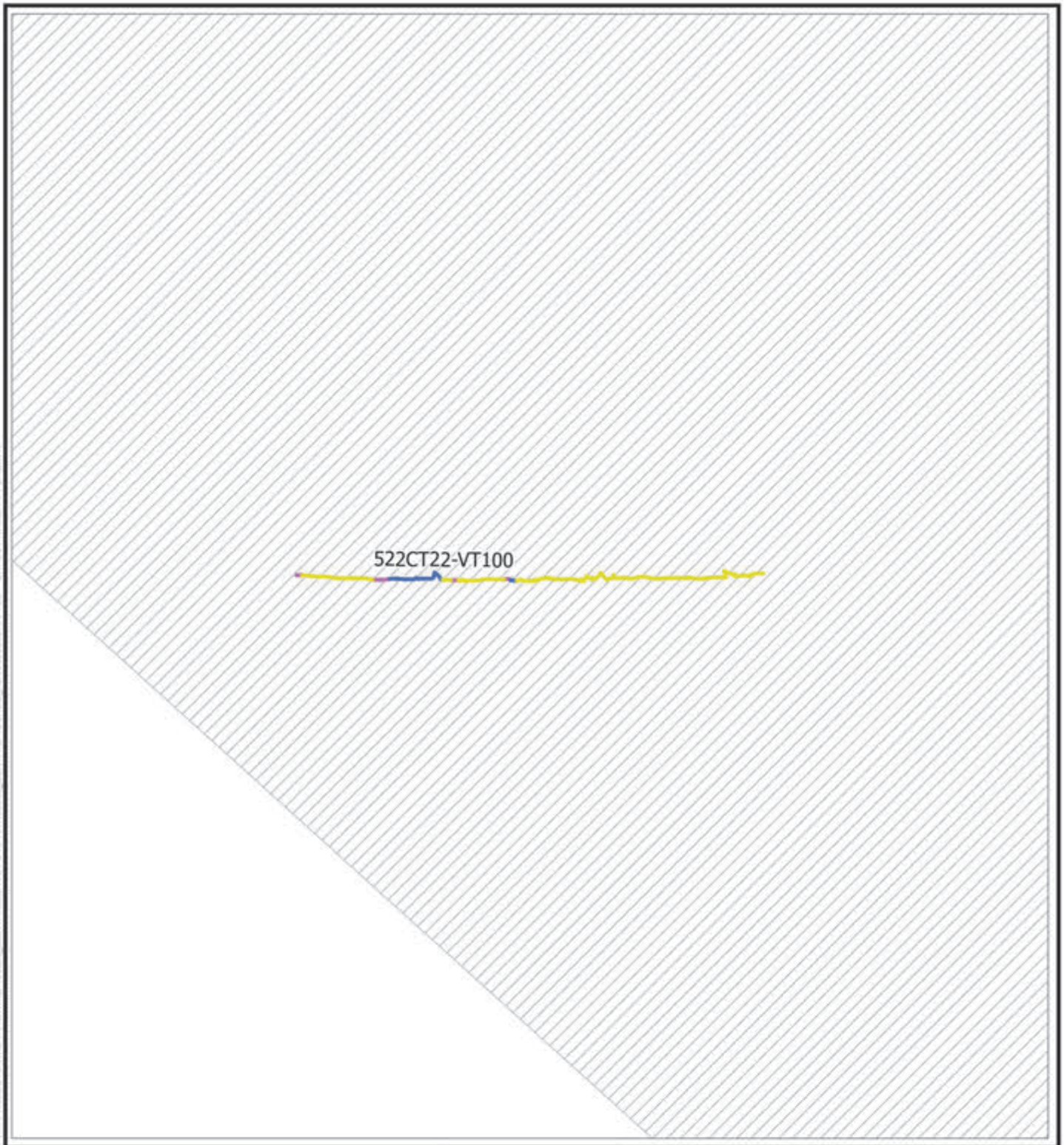
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT098

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

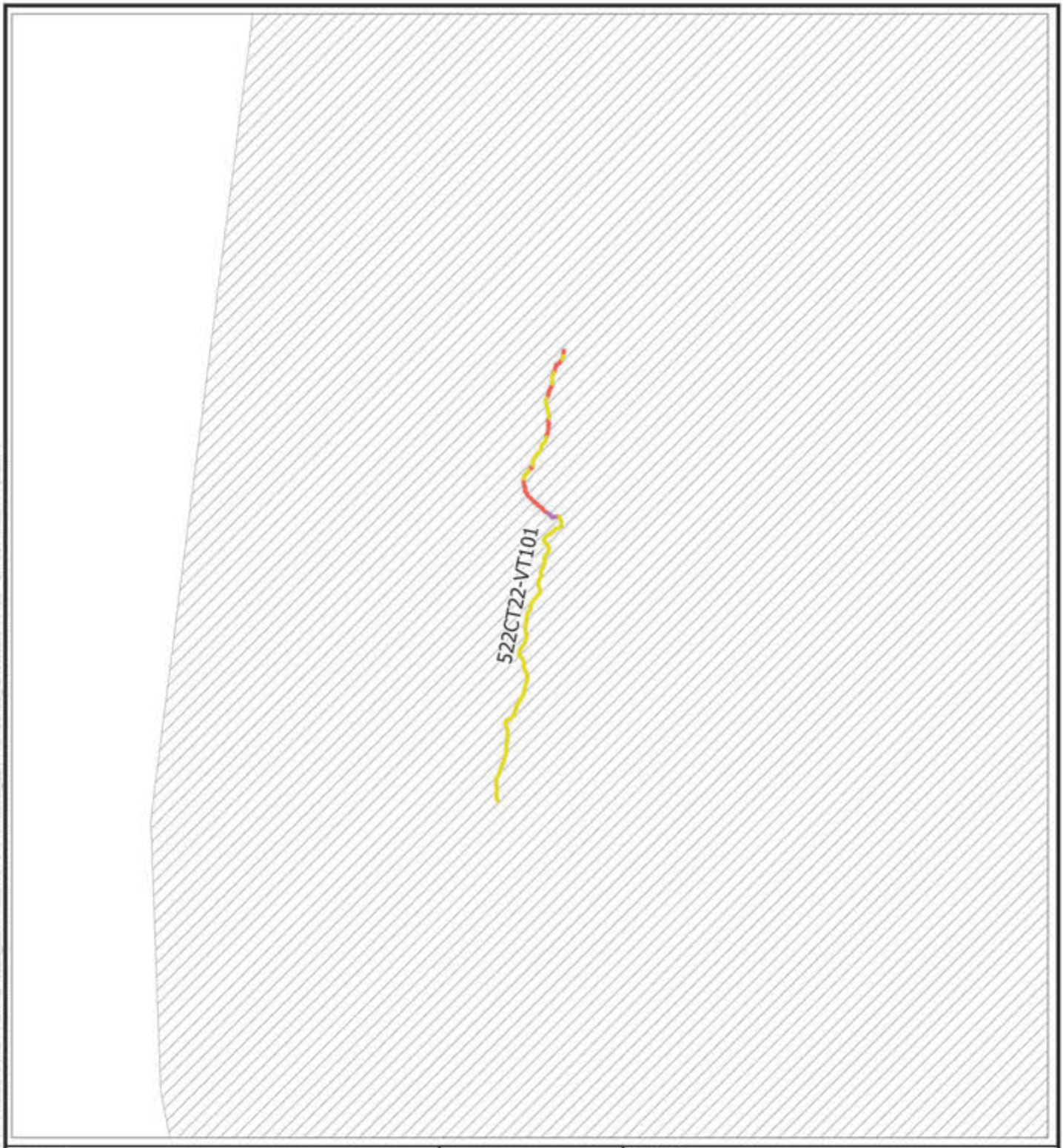
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT100

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

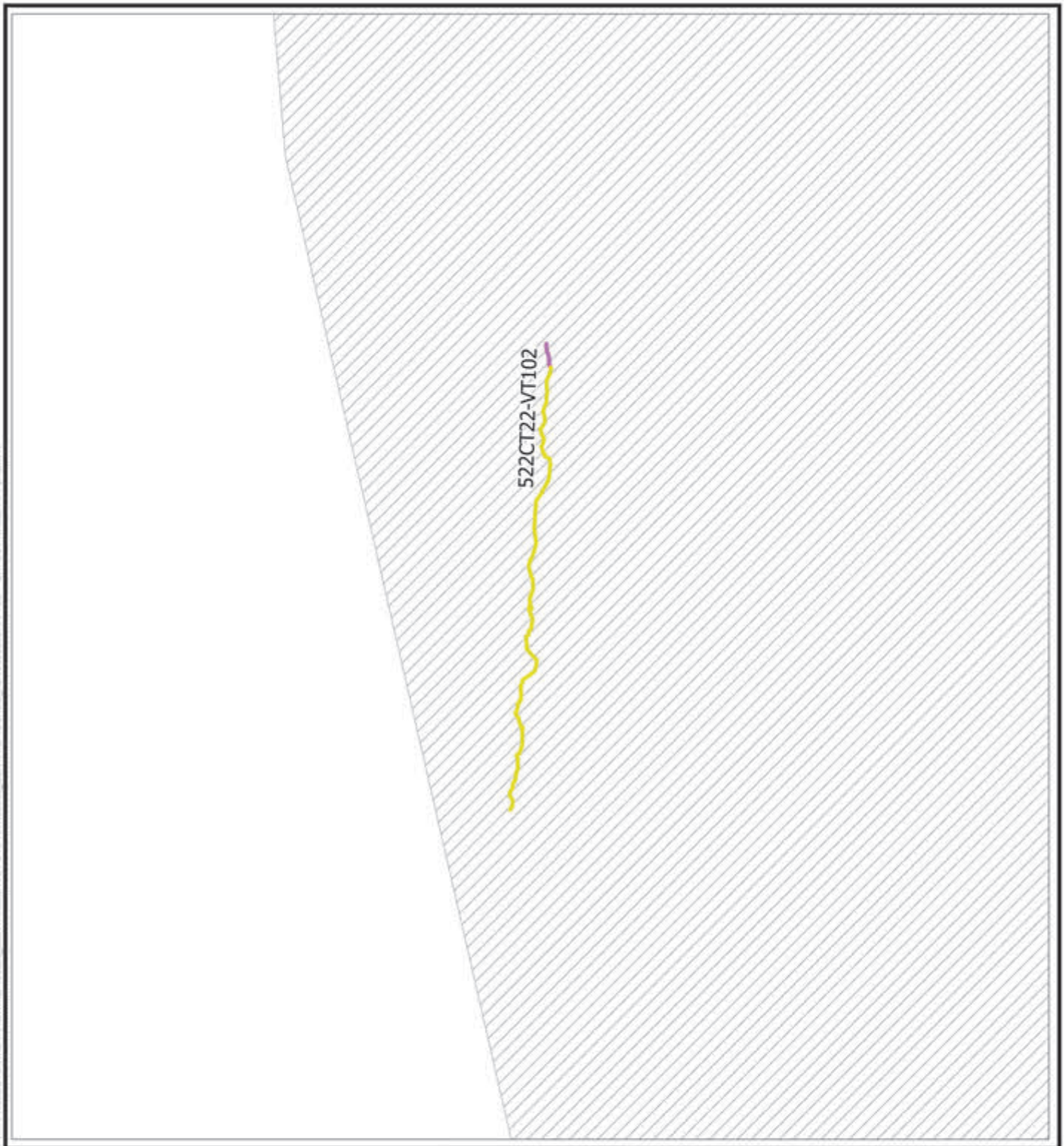
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT101

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT102	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\ARRAY\483856_BENTHICFIGURES_REV20230327.ARRAY LAYOUT NAME: ARRAY_A

CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT104

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEG\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravelly
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

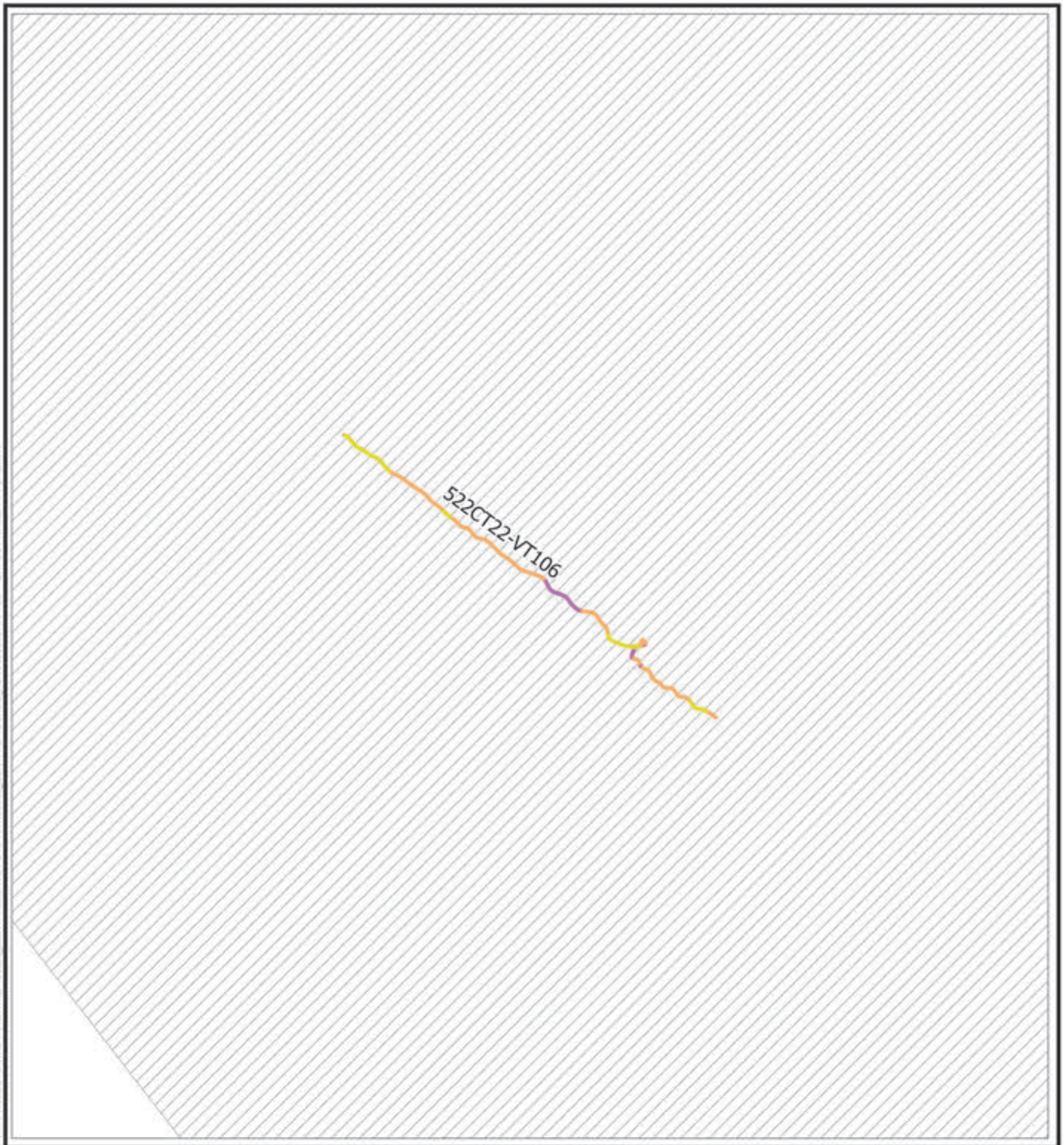
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT105

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

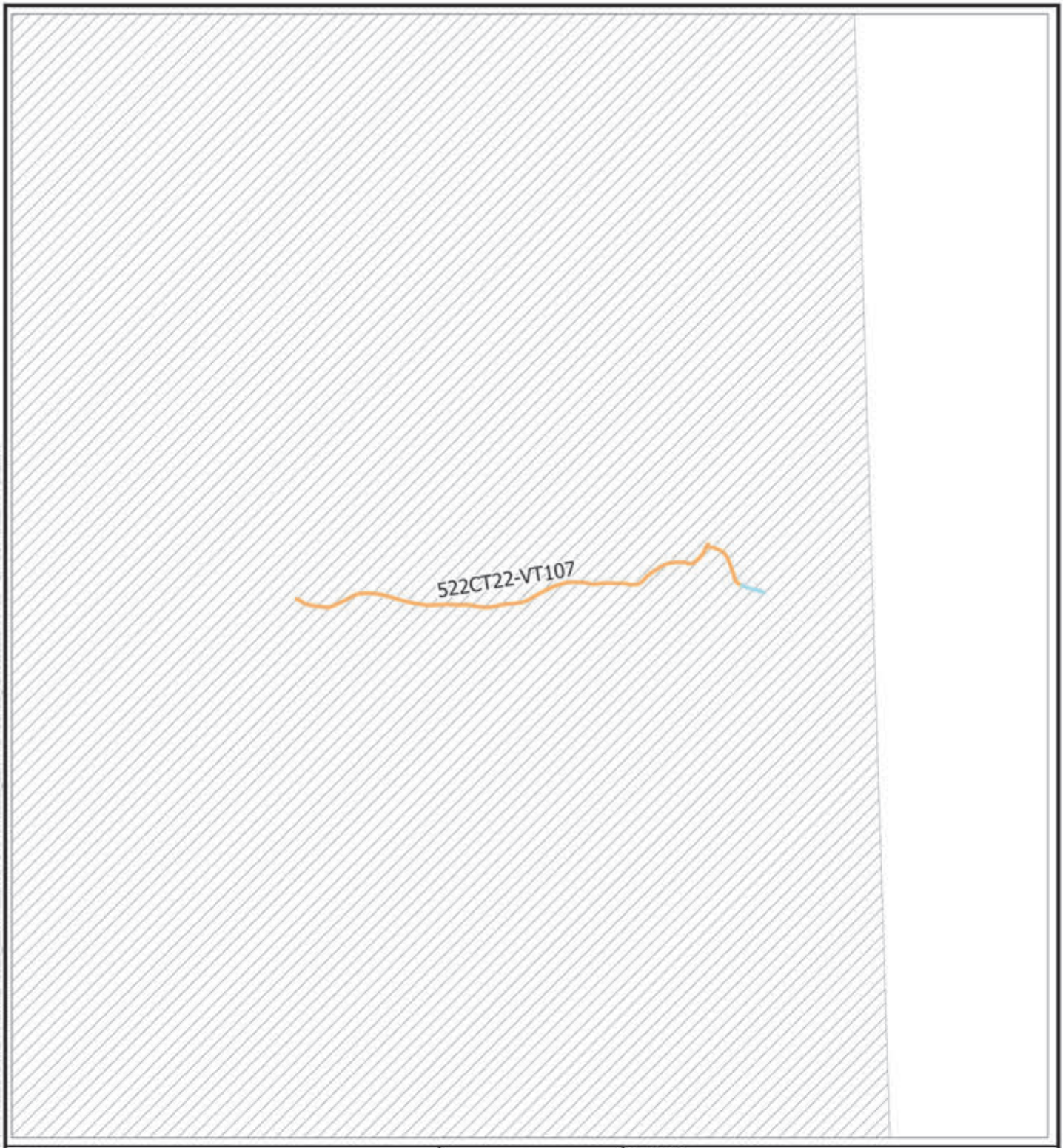
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT106

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

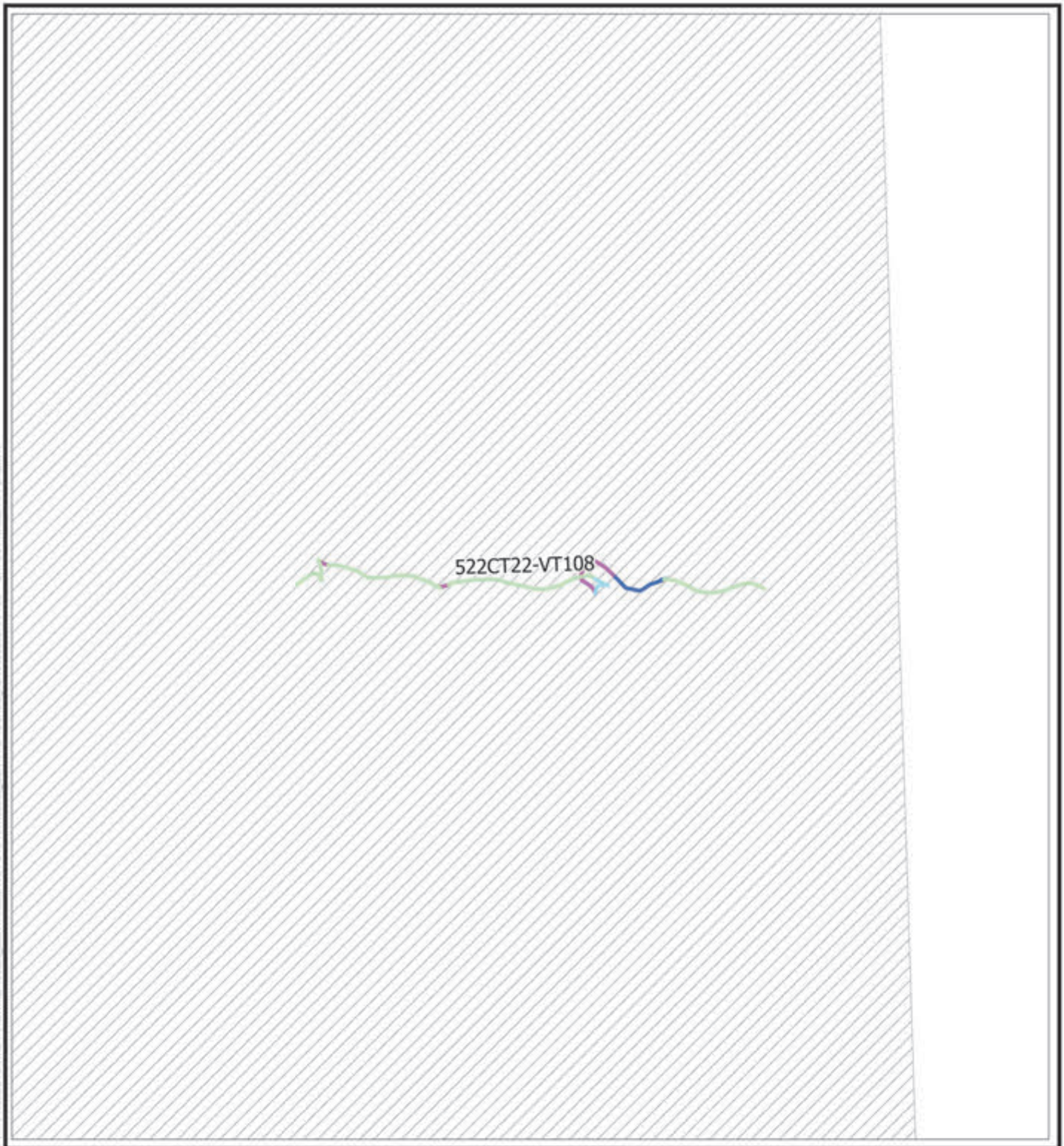
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT107

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

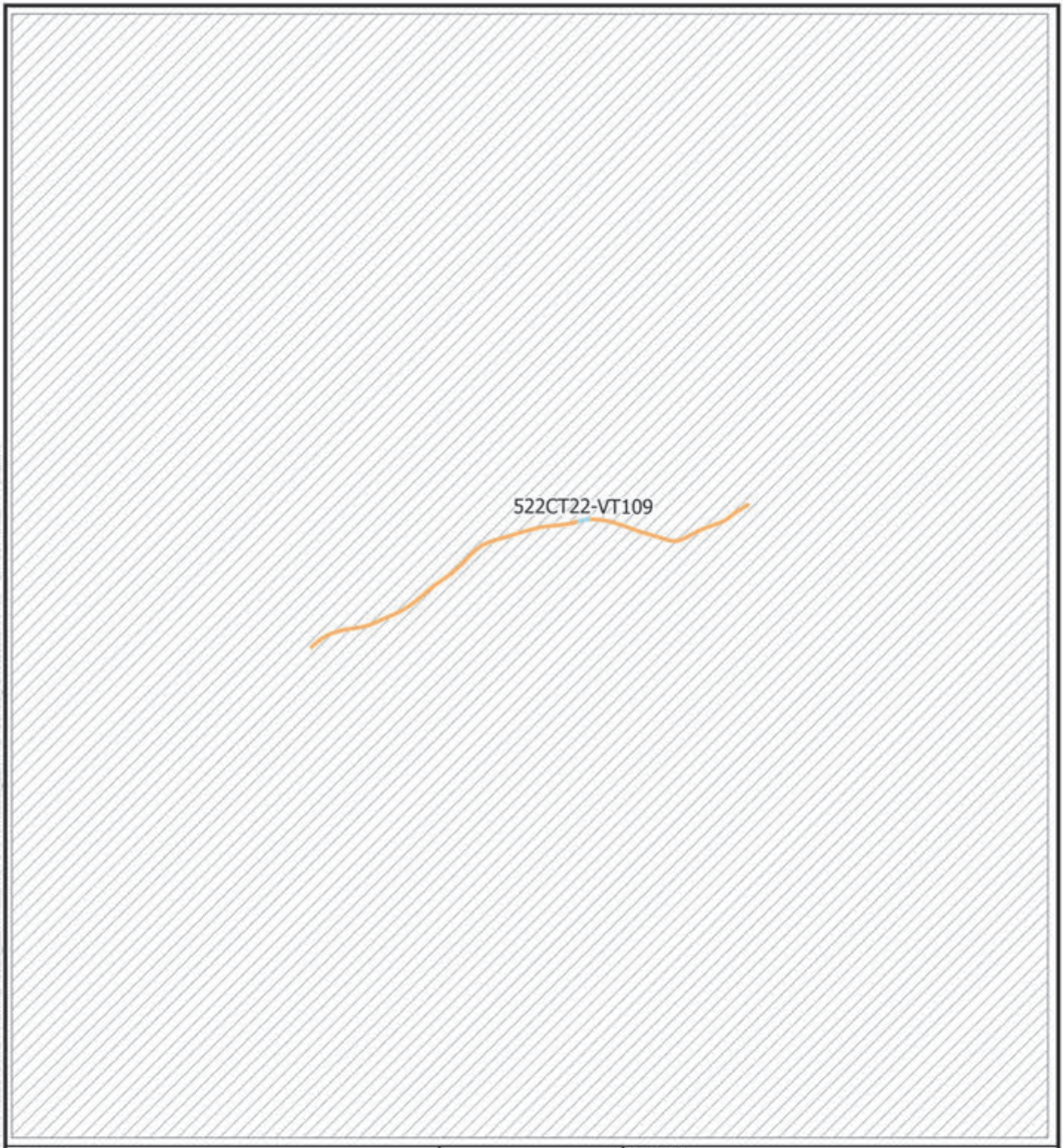
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT108

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

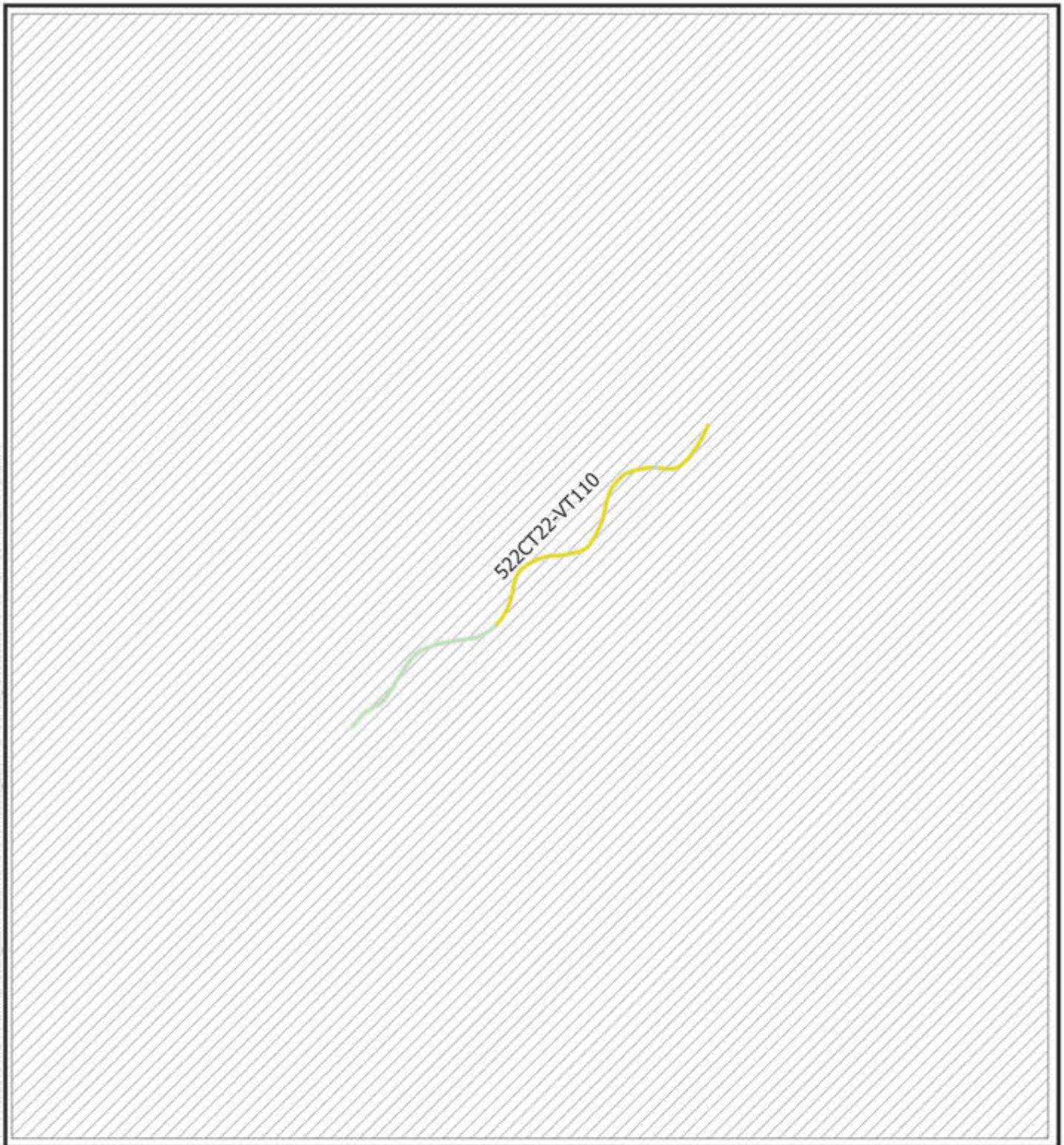
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT109

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Shell

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

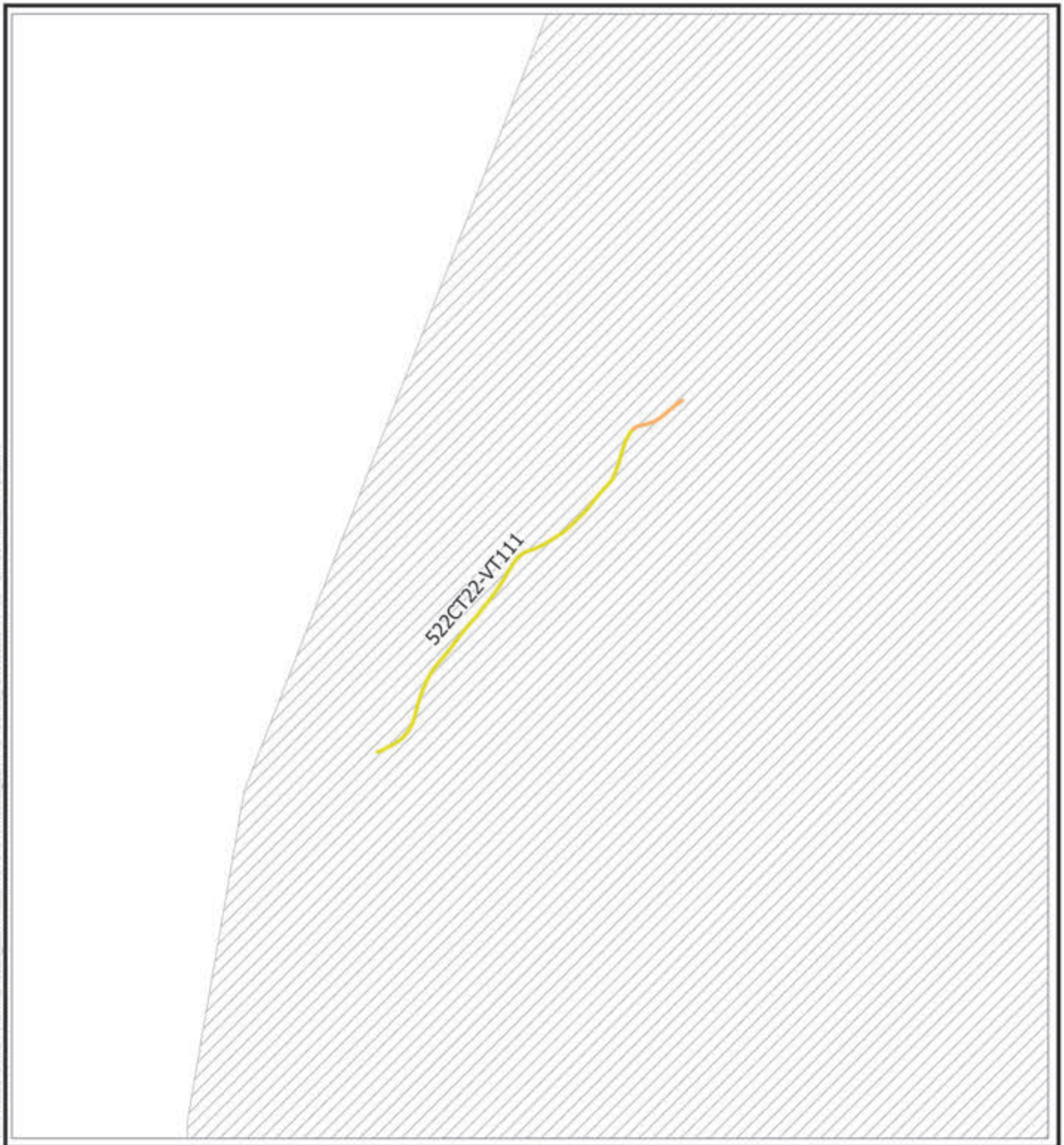
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT110

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

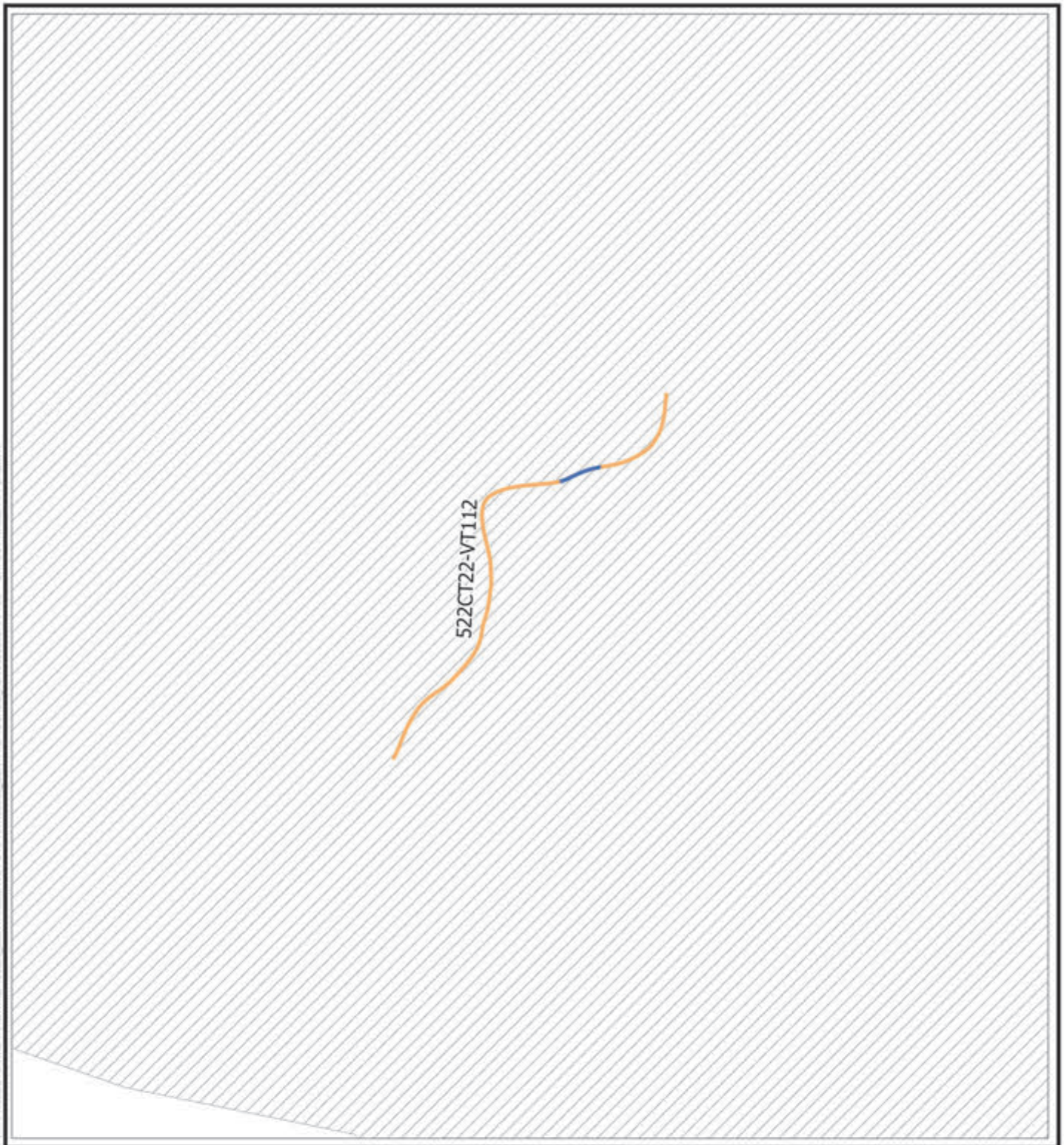
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT111

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

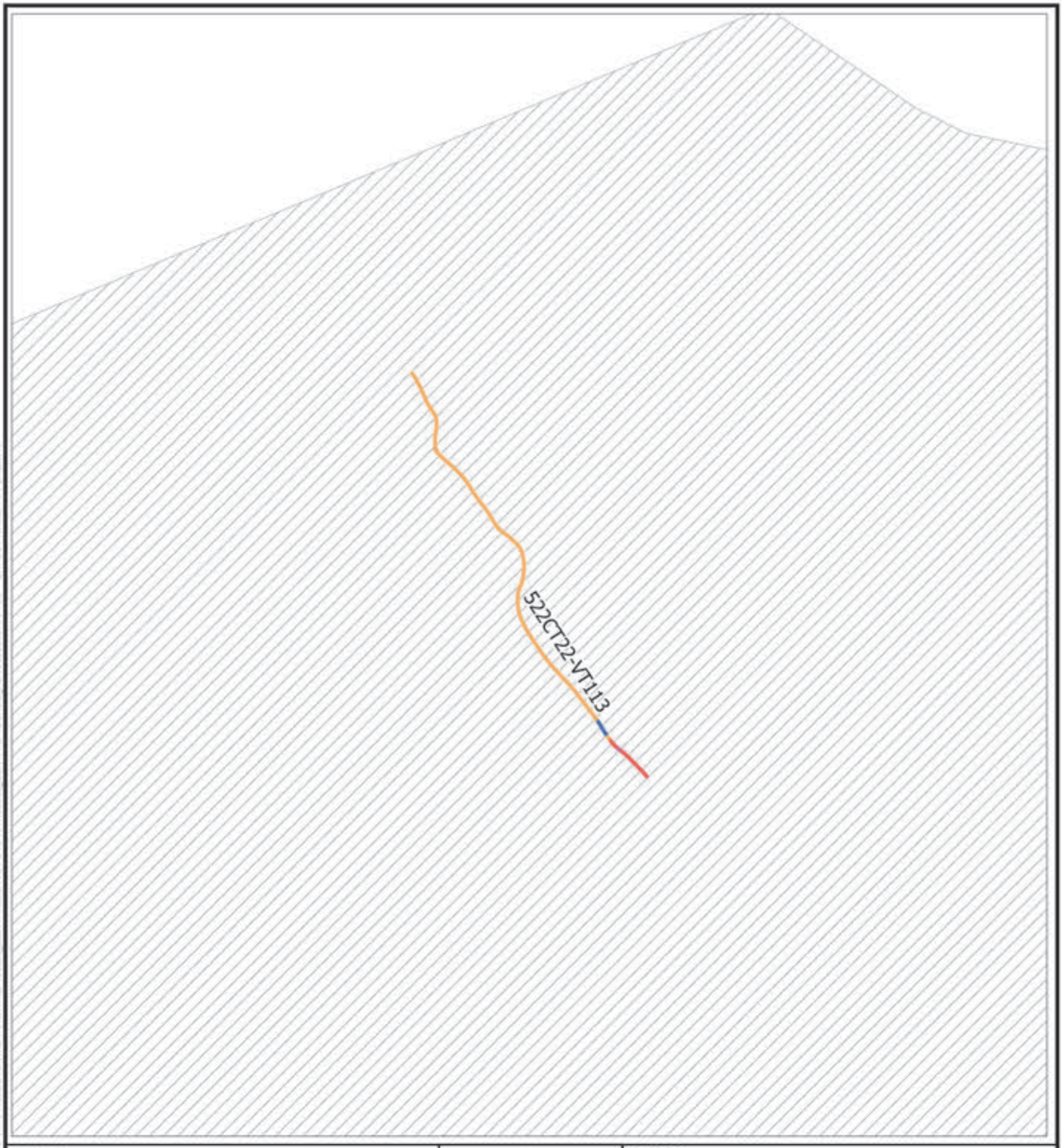
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT112

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

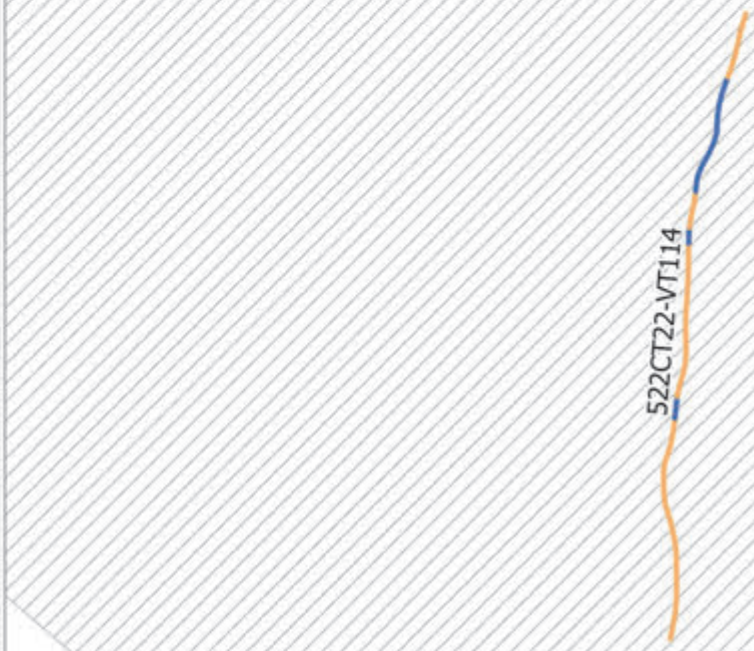
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT113

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

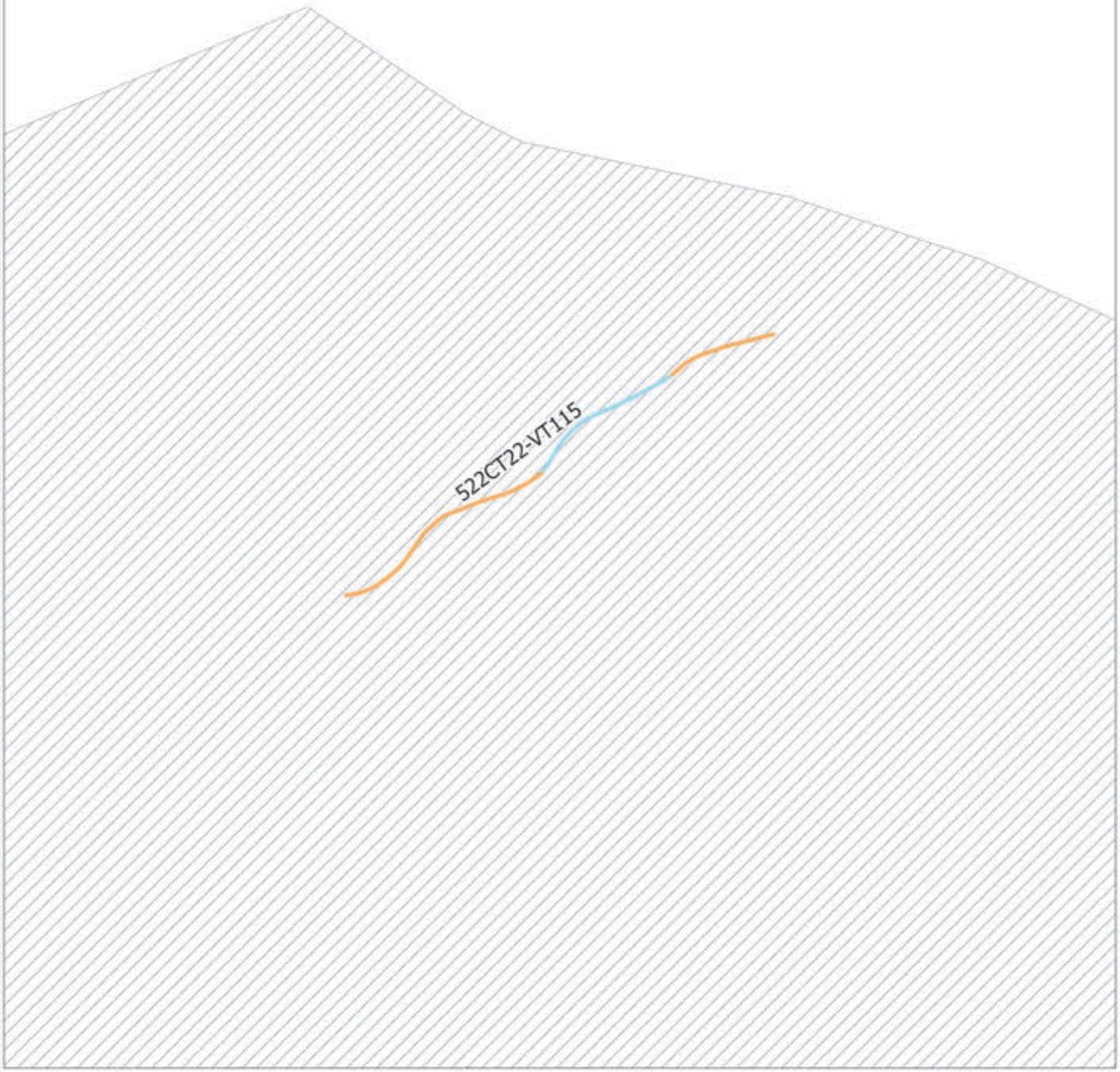
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT114

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

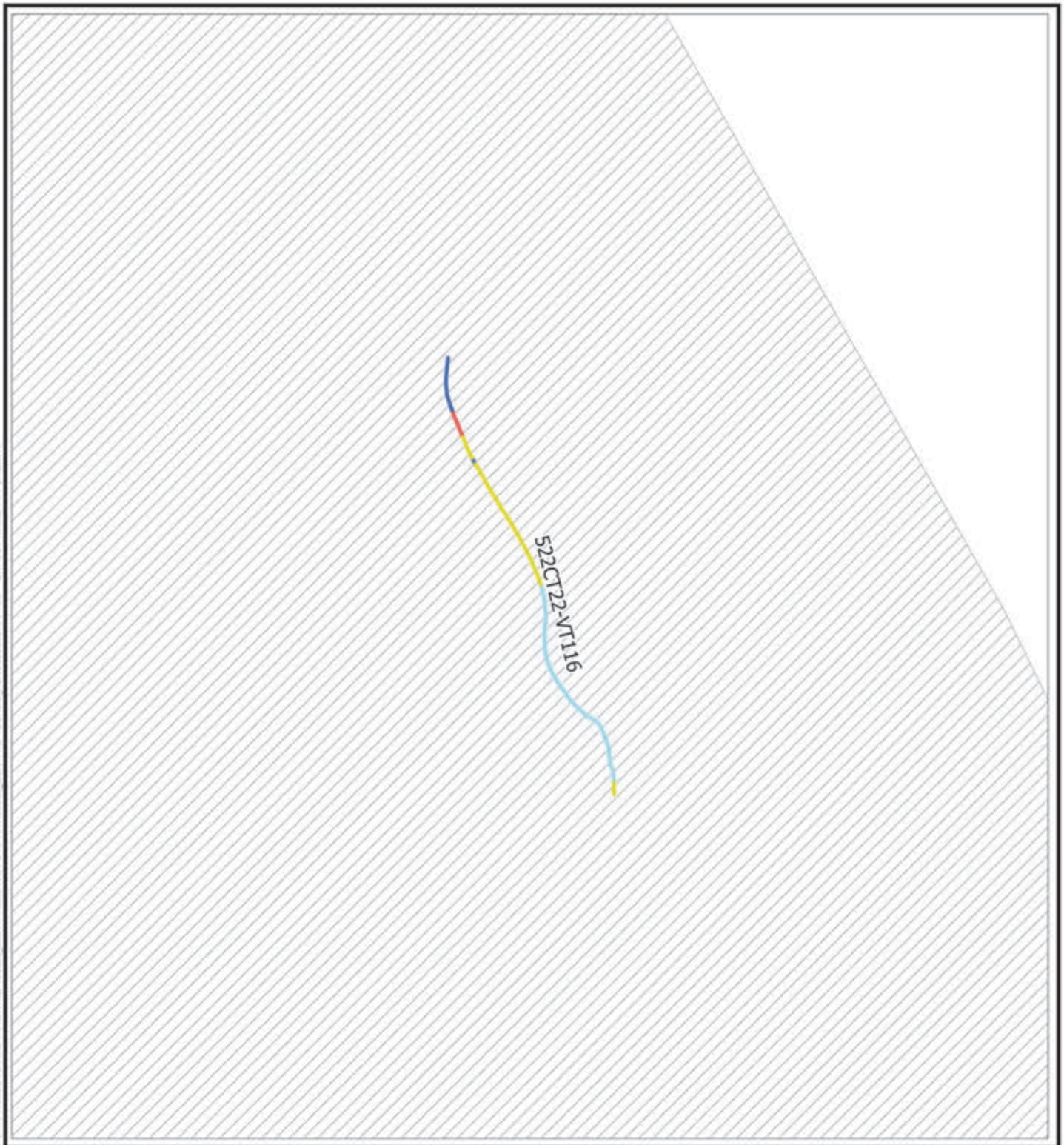
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT115

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Shell

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

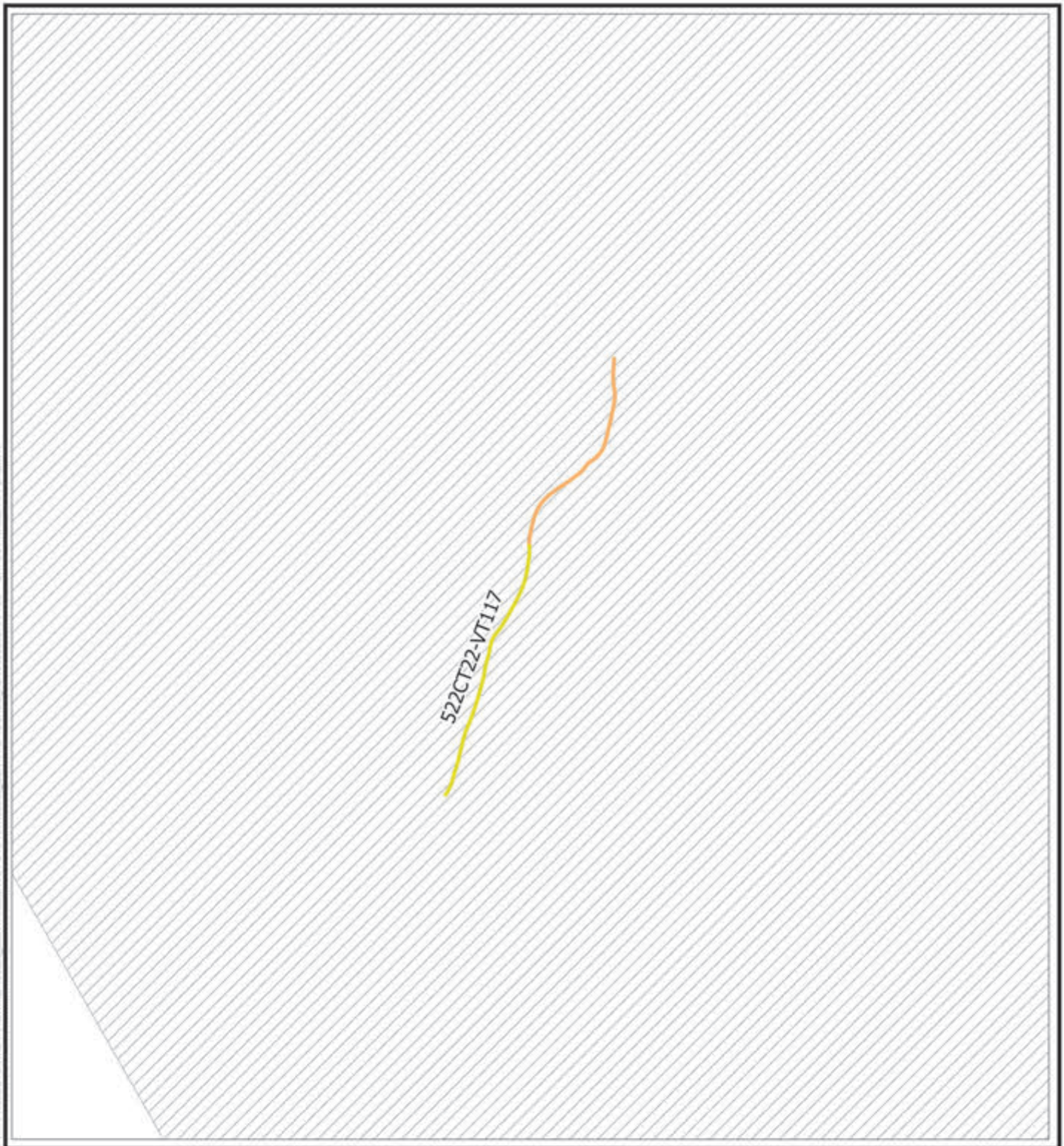
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT116

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

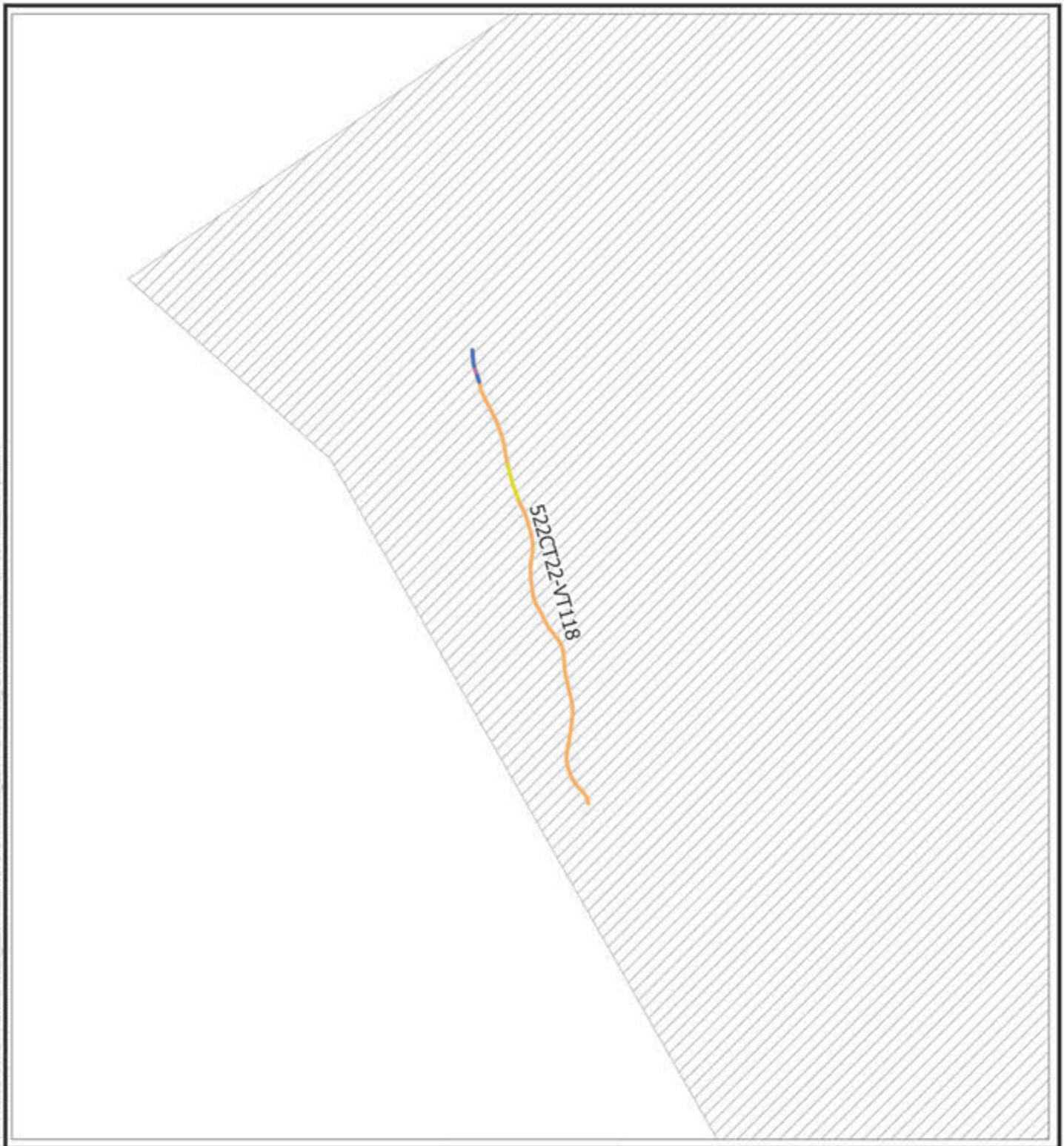
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT117

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

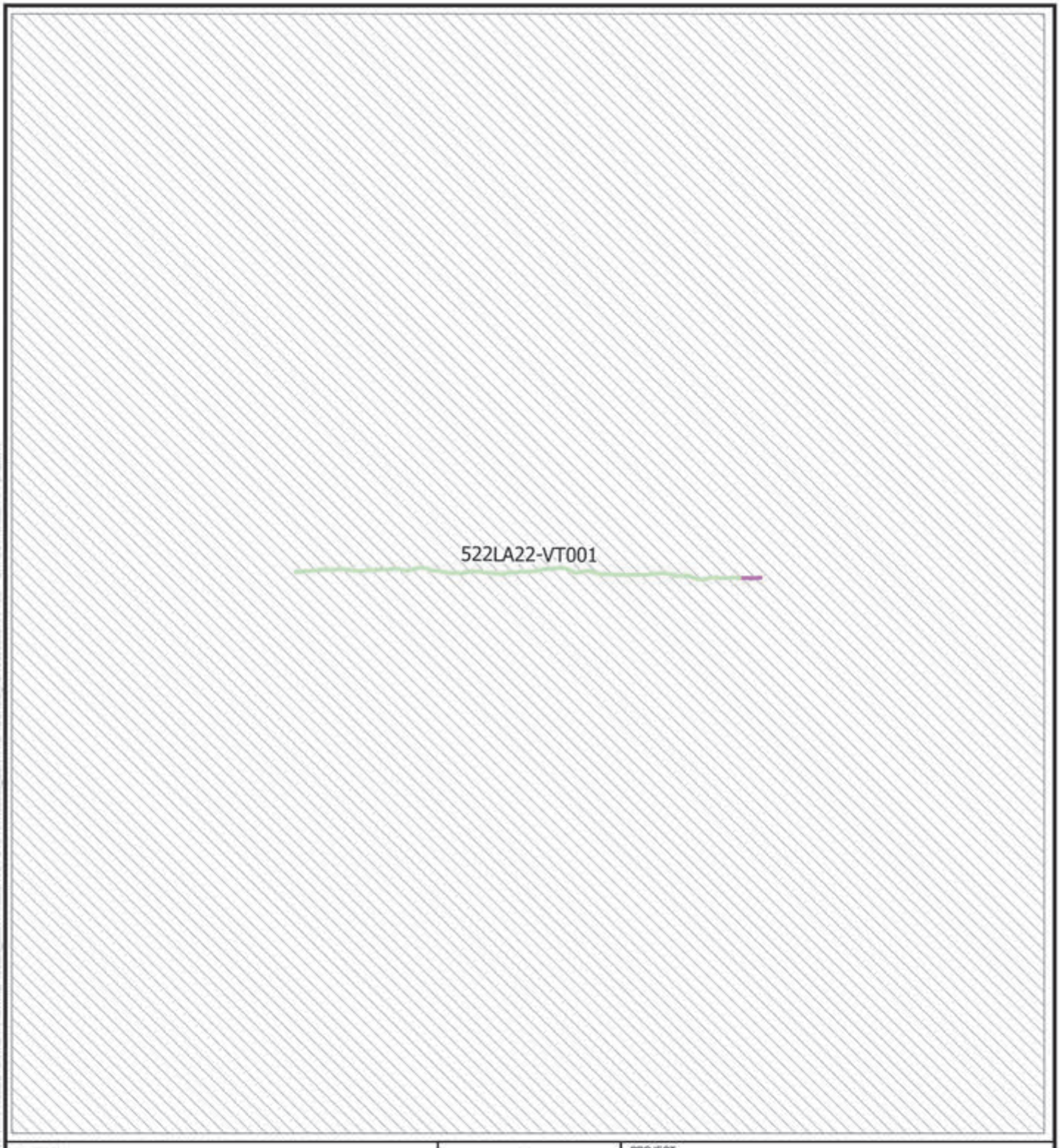
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT118

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area

Muddy Sand

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

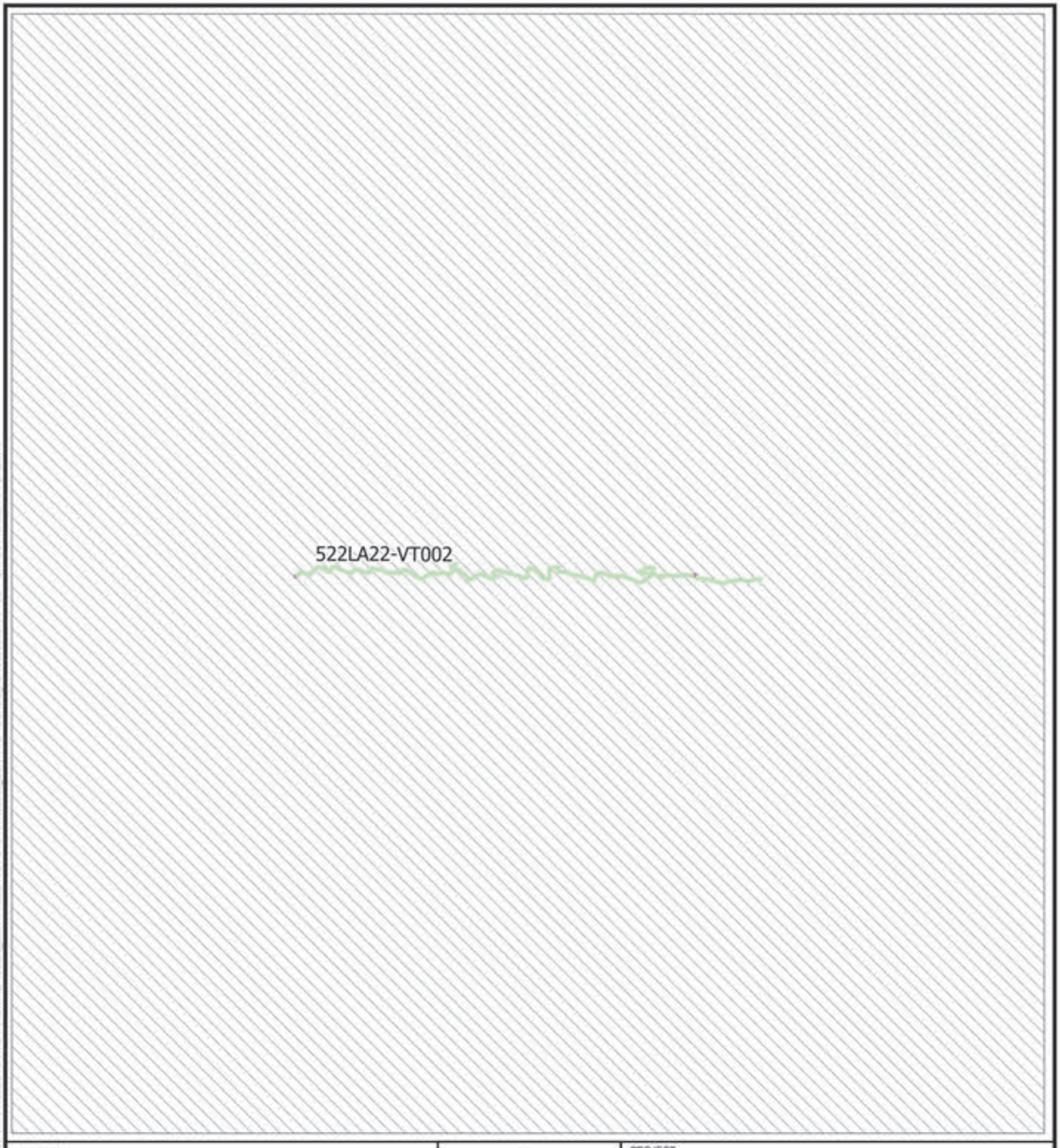
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: JDEHAINAUT ON 4/13/2023, 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area

Muddy Sand

Uncharacterized - Visibility Compromised

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

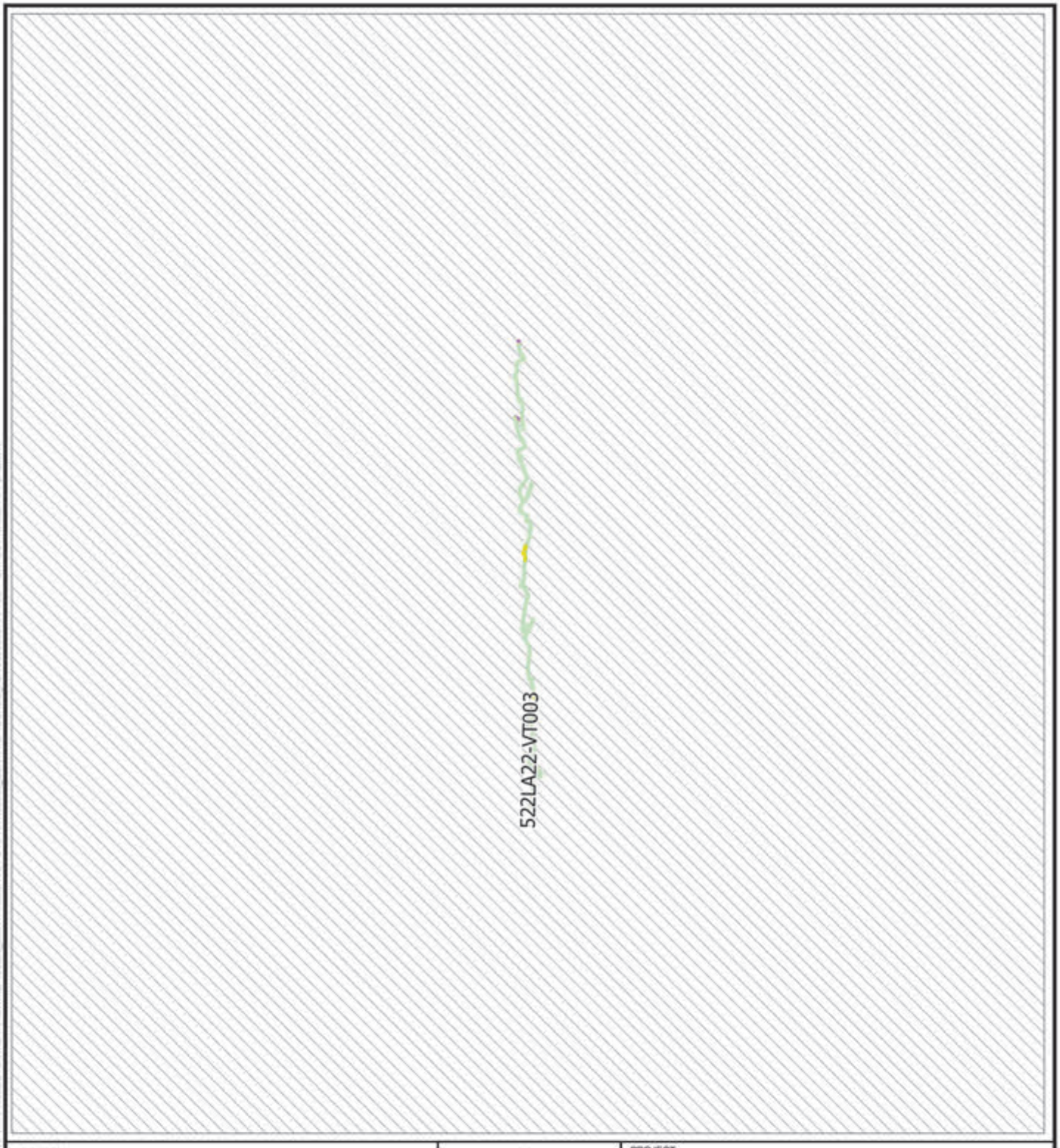
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT002

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

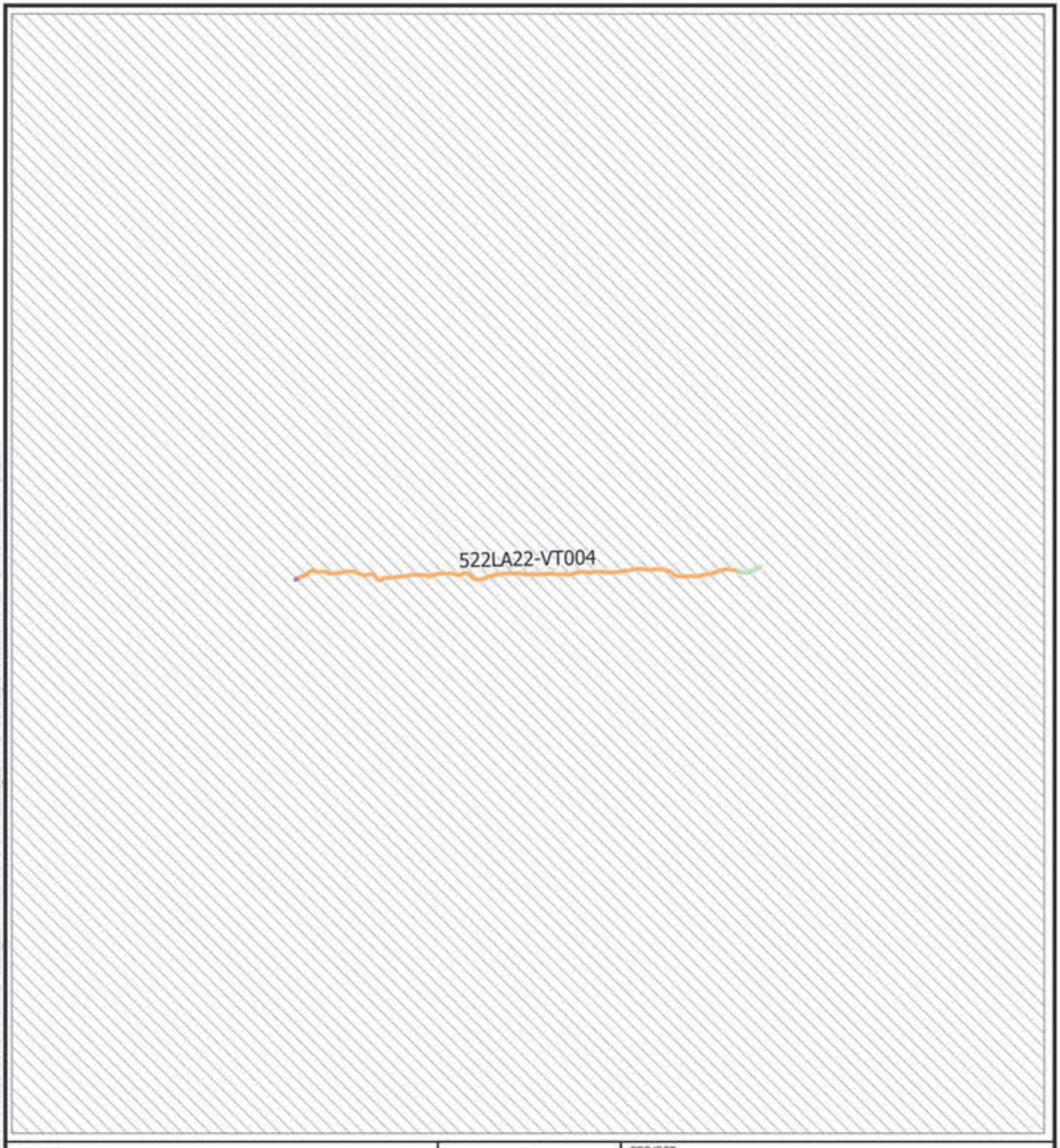
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

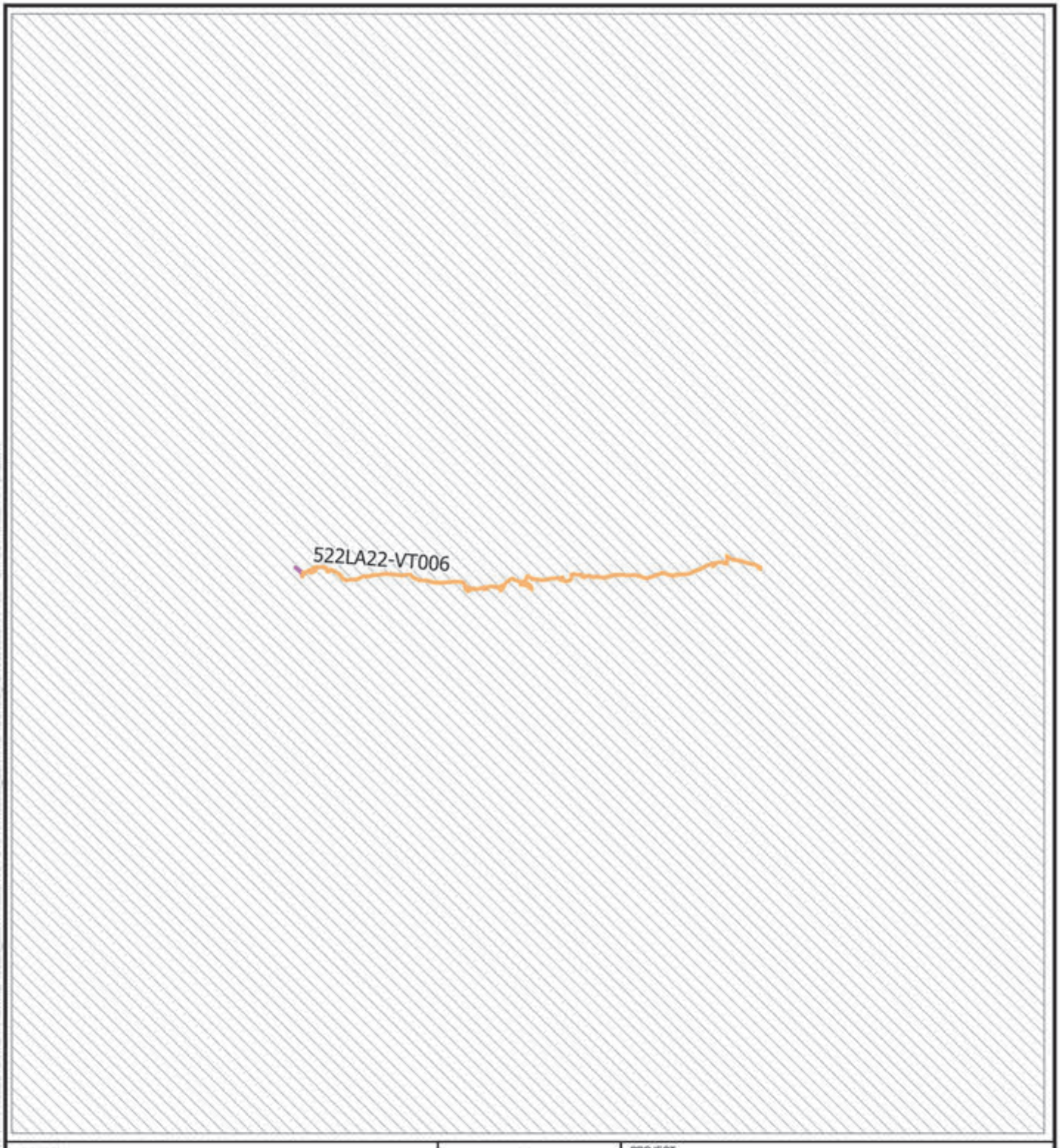
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

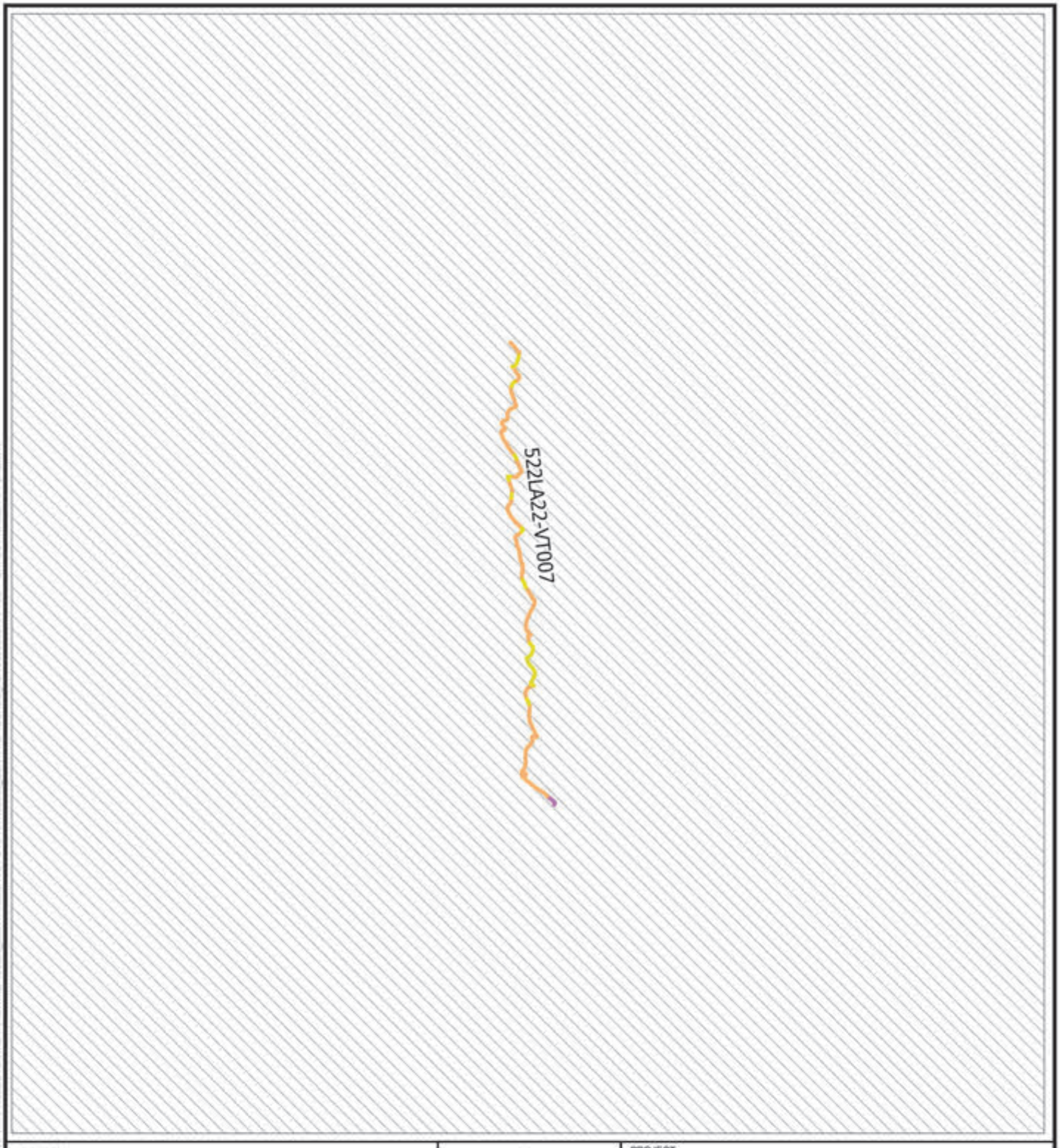
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT006

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area
Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

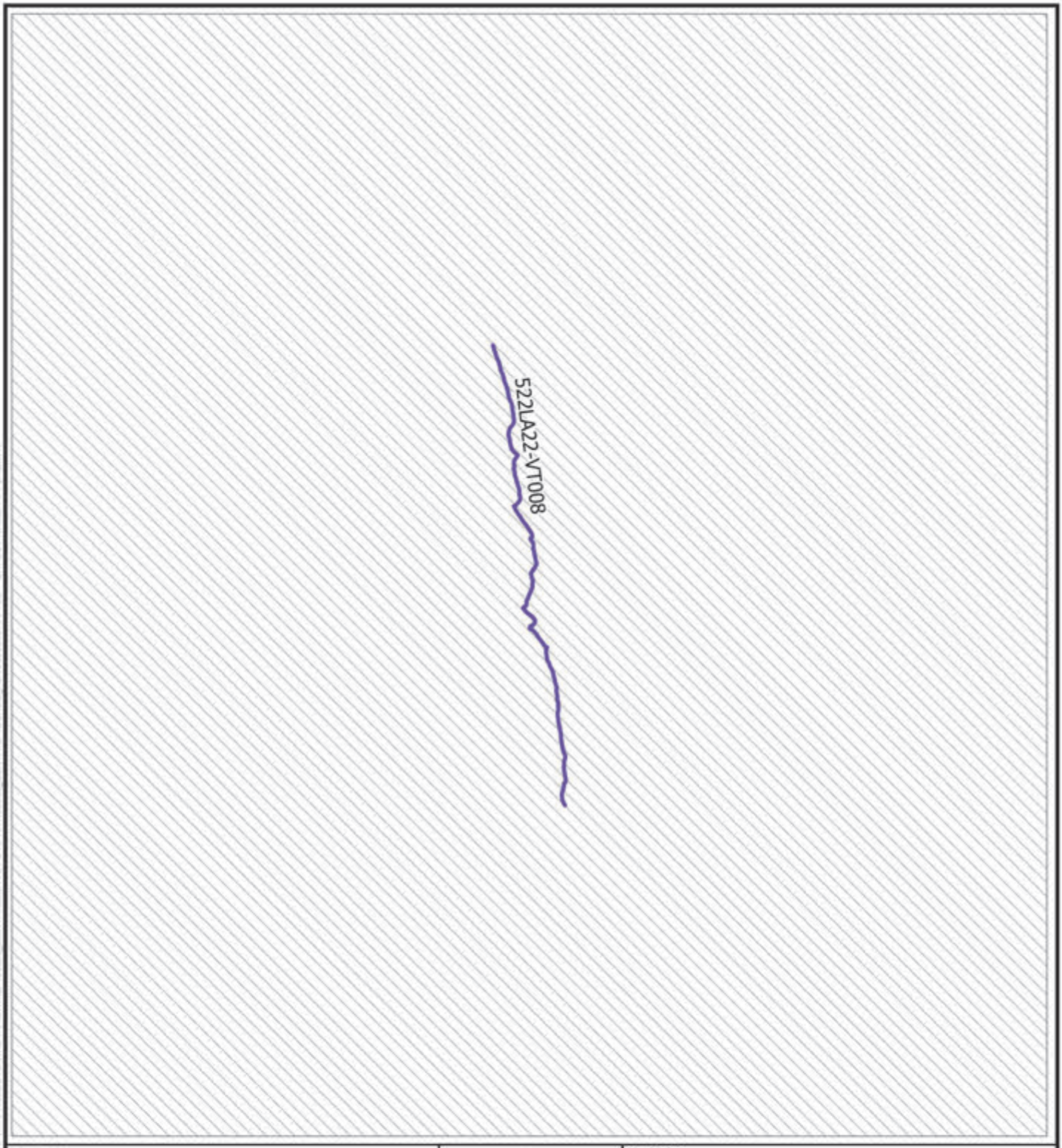
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area

Sandy Mud

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522LA22-VT008	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD", LAYOUT NAME: JUPEGMAP.MXD

522 Lease Area

Sandy Mud

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

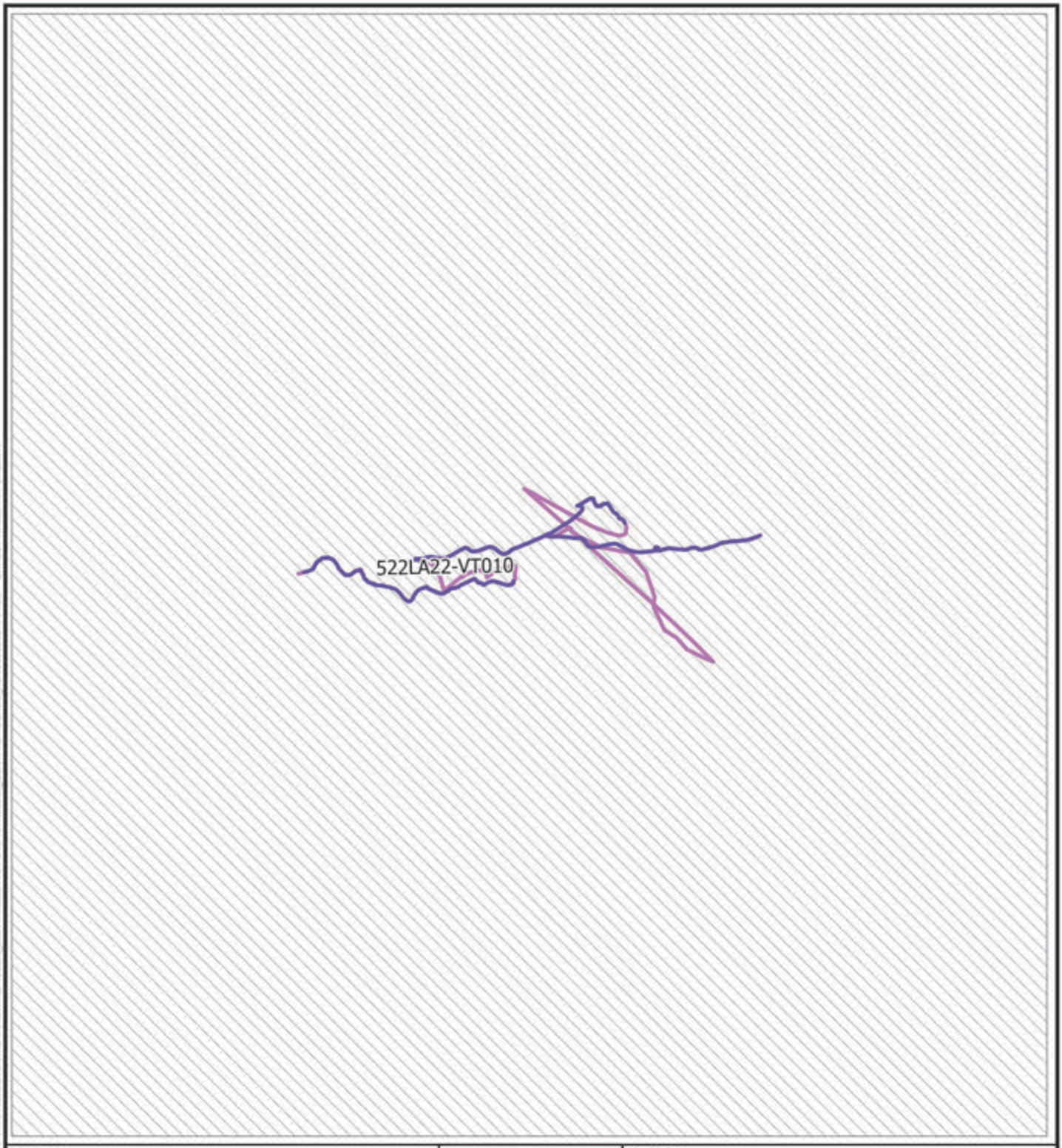
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sandy Mud
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

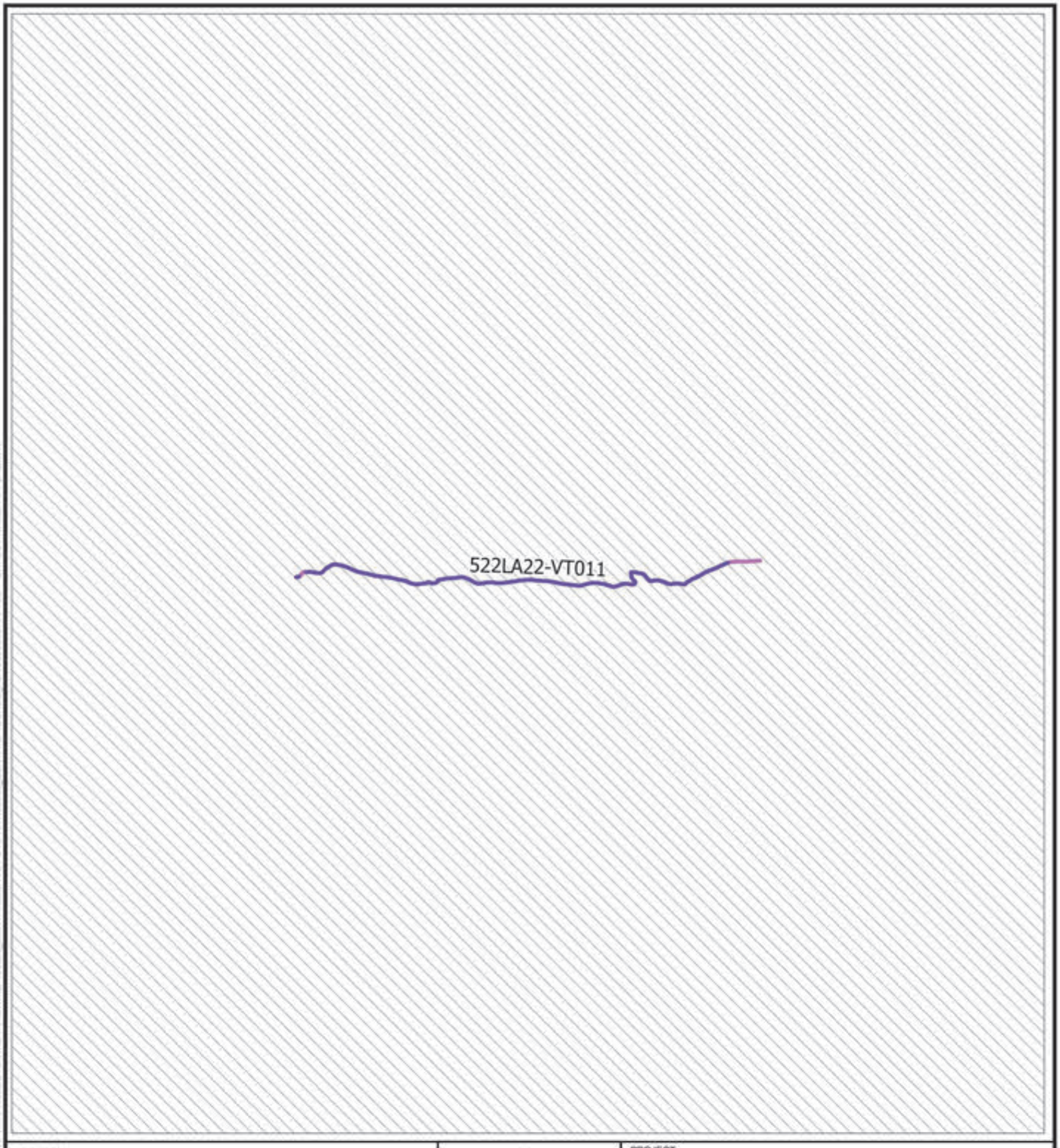
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sandy Mud
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

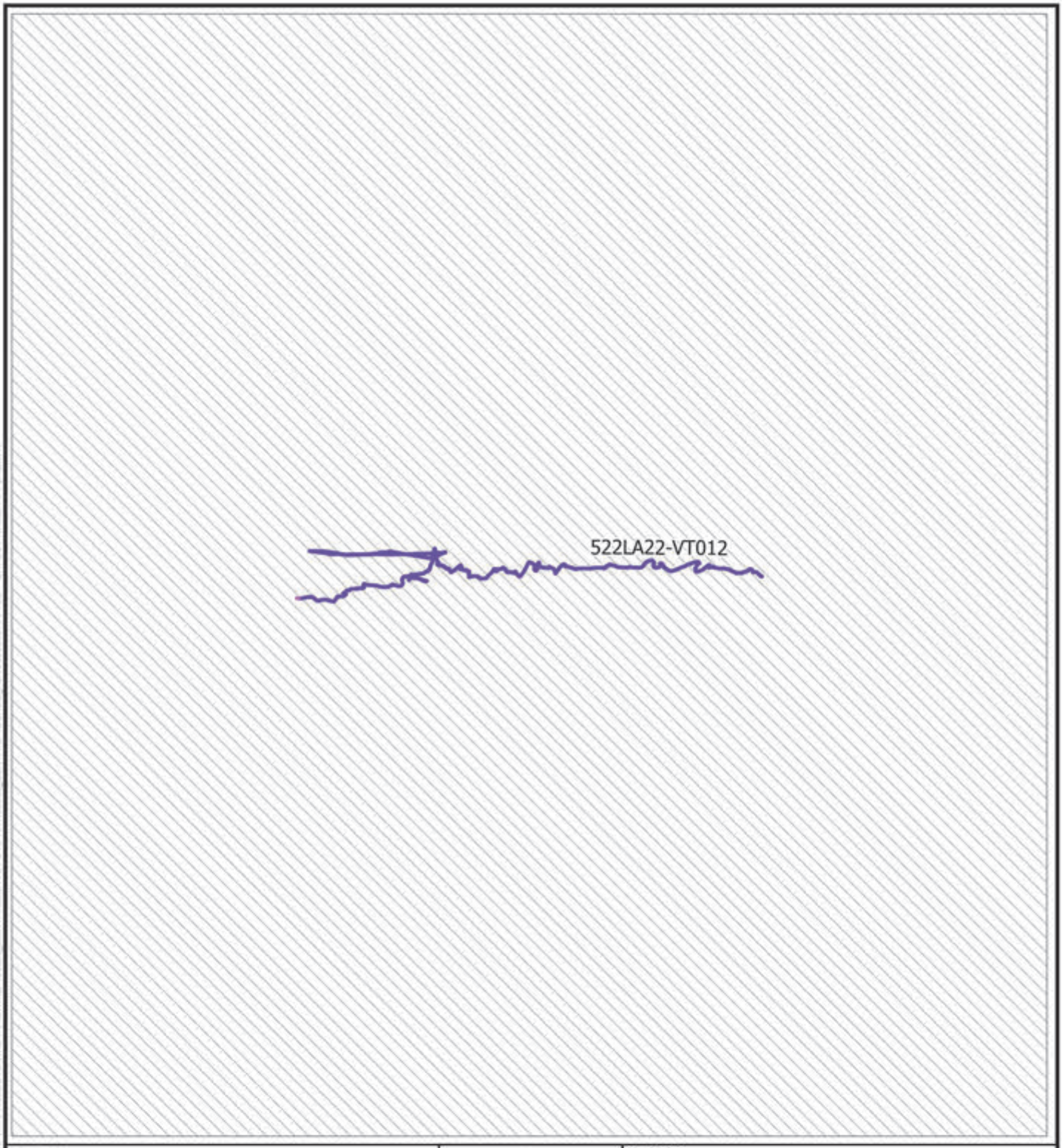
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVEST\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area
Sandy Mud
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

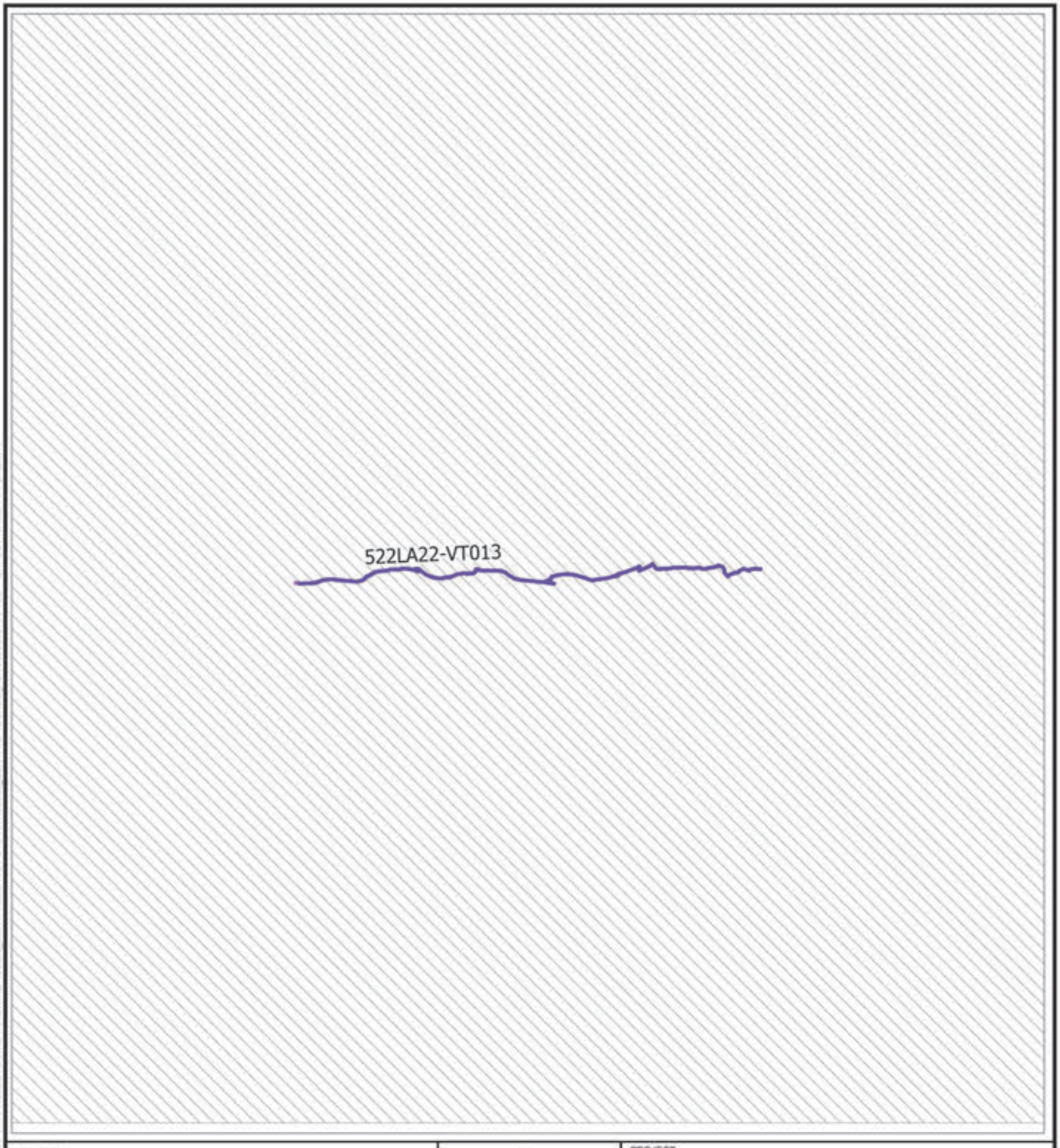
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area

Sandy Mud

Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

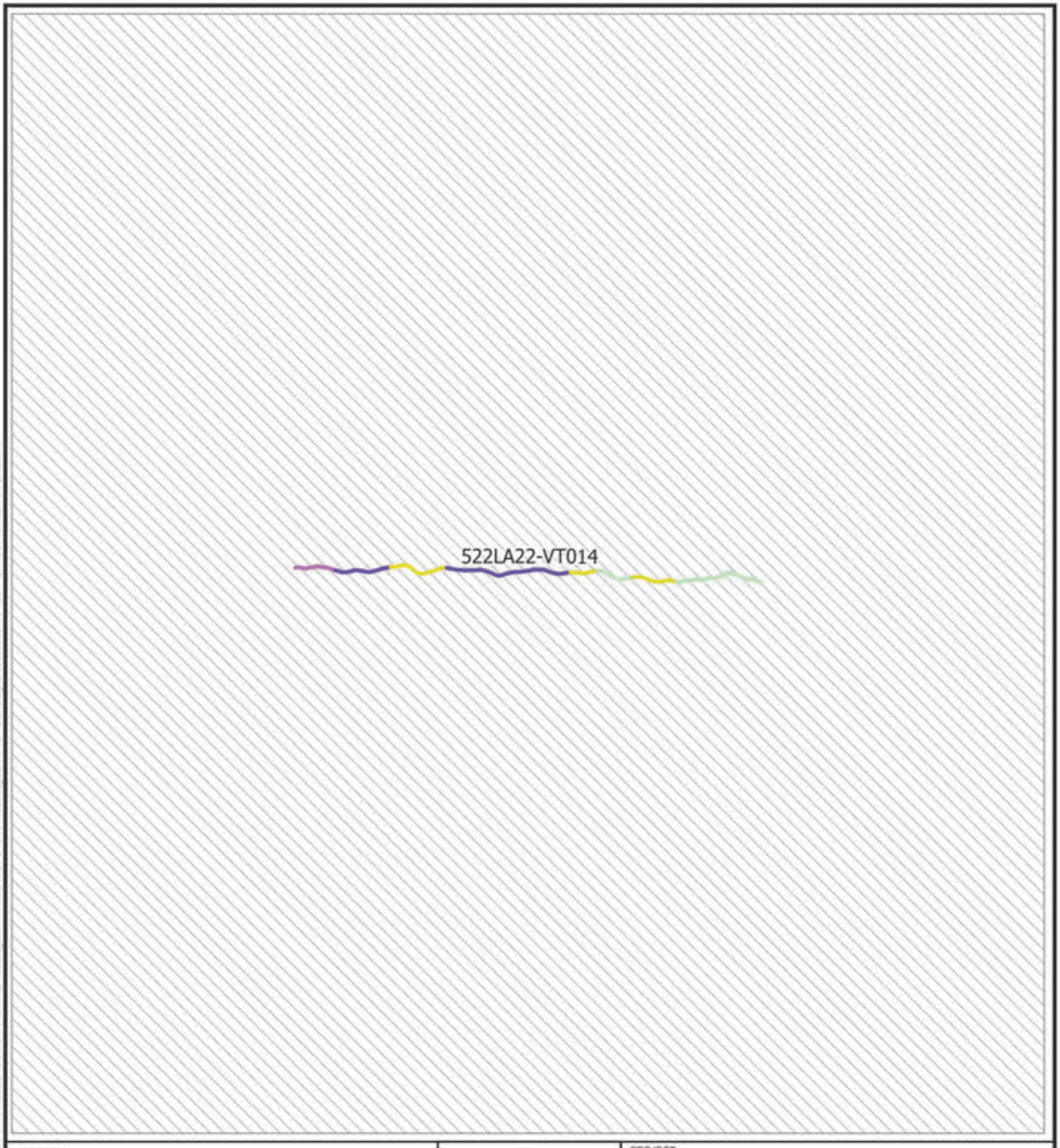
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

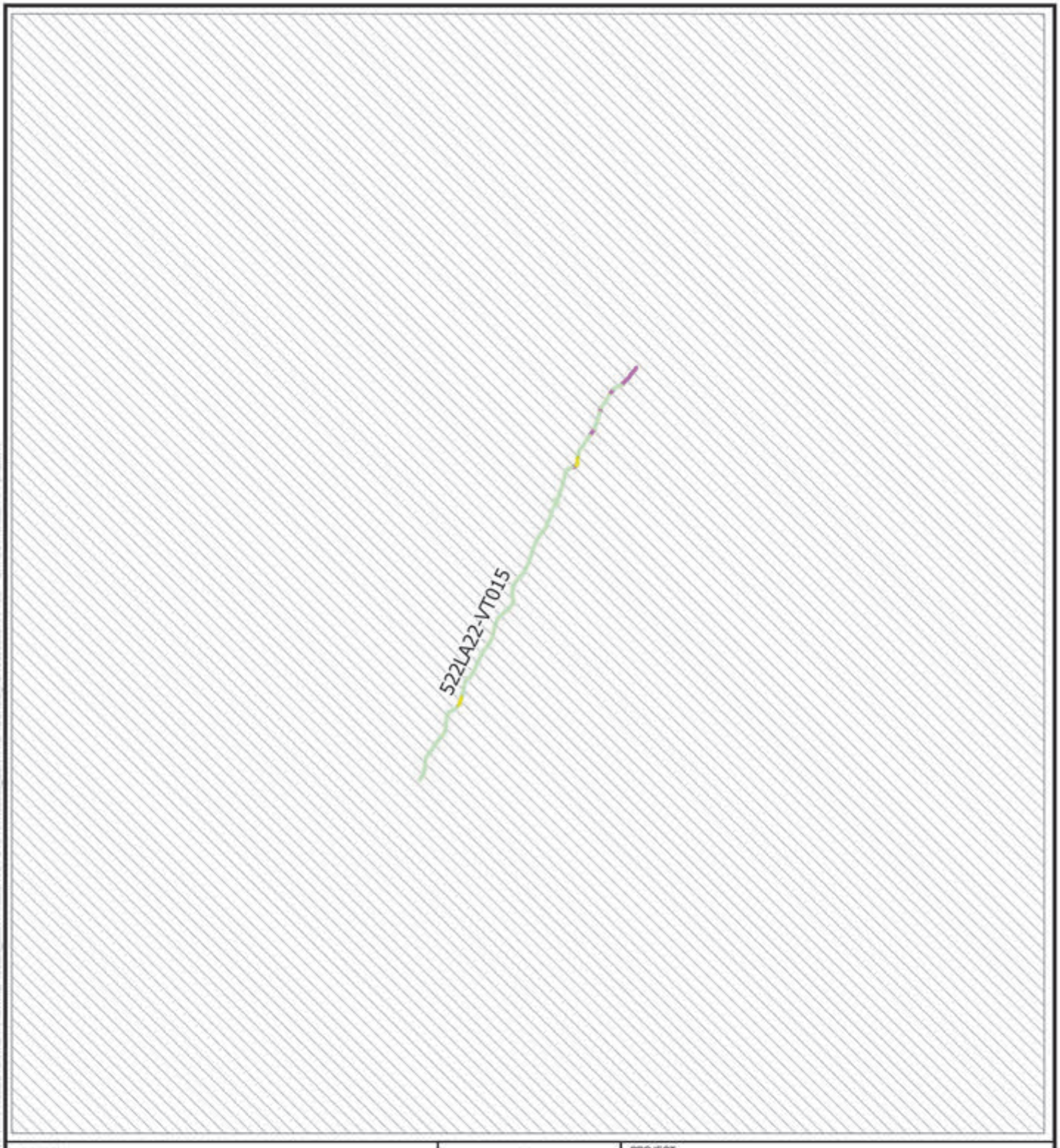
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARRAN\MXD_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: ARRAN_A



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

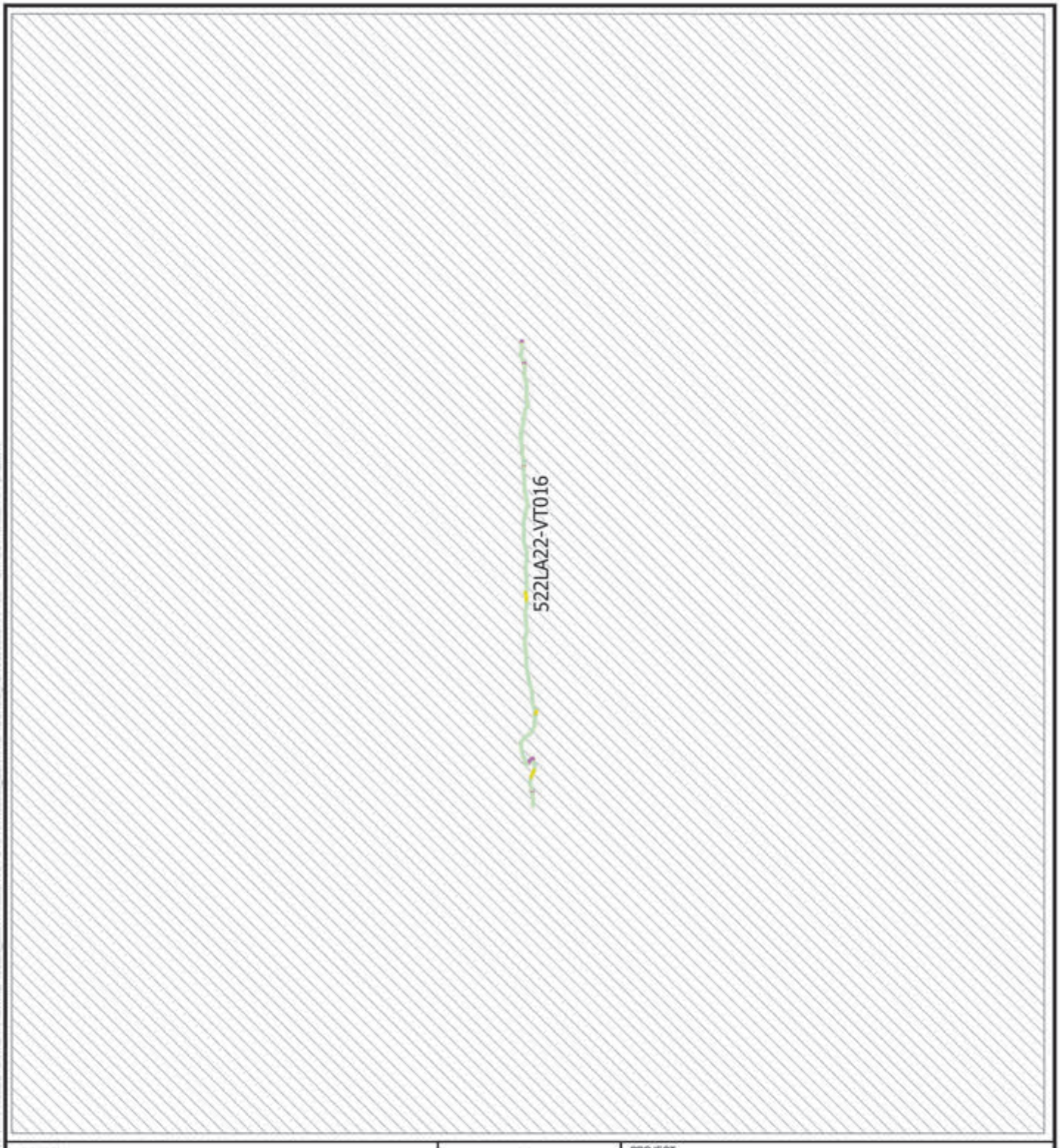
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT015

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARRAN\MXD_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: ARRAN_H



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

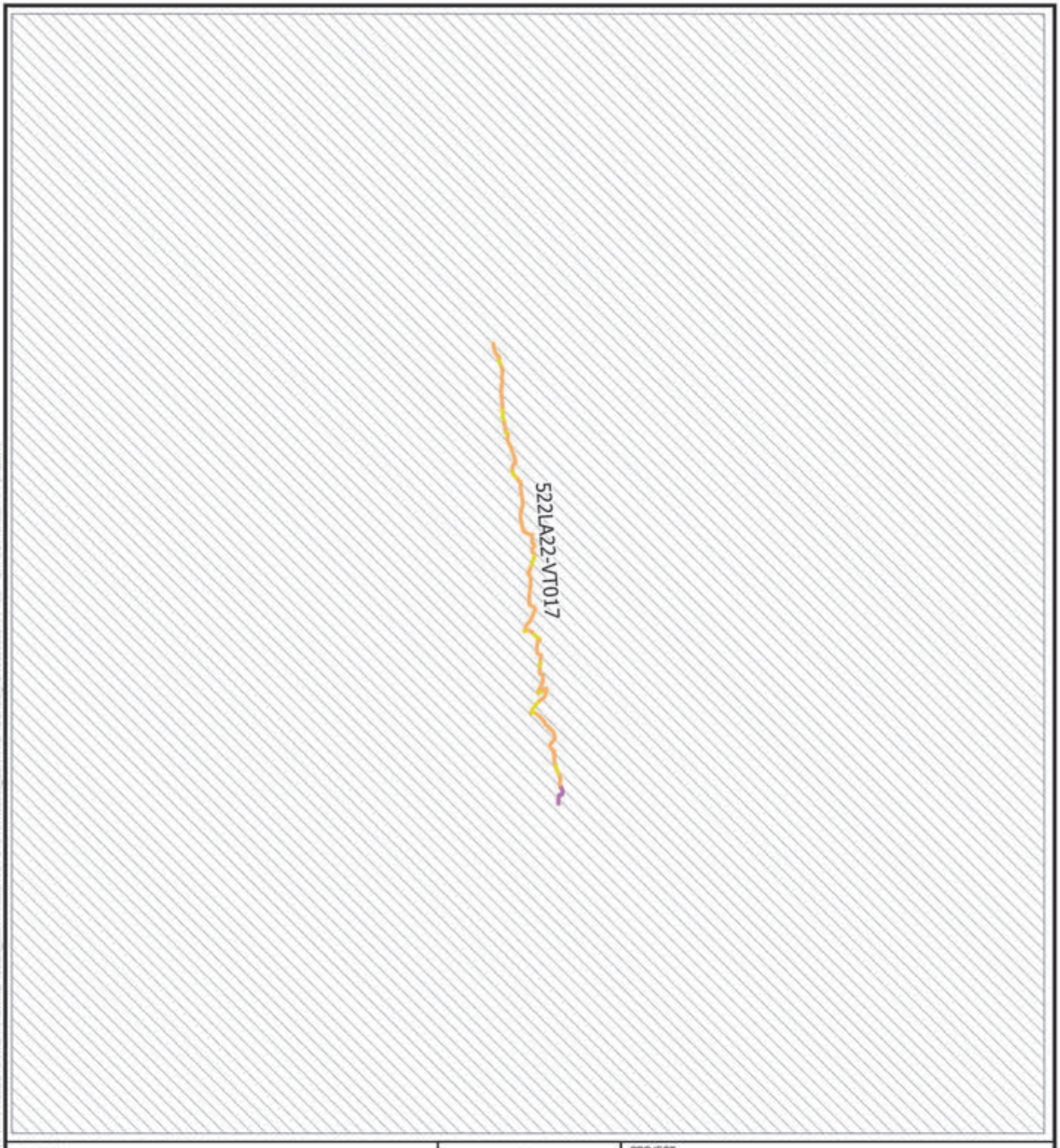
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522LA22-VT016	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

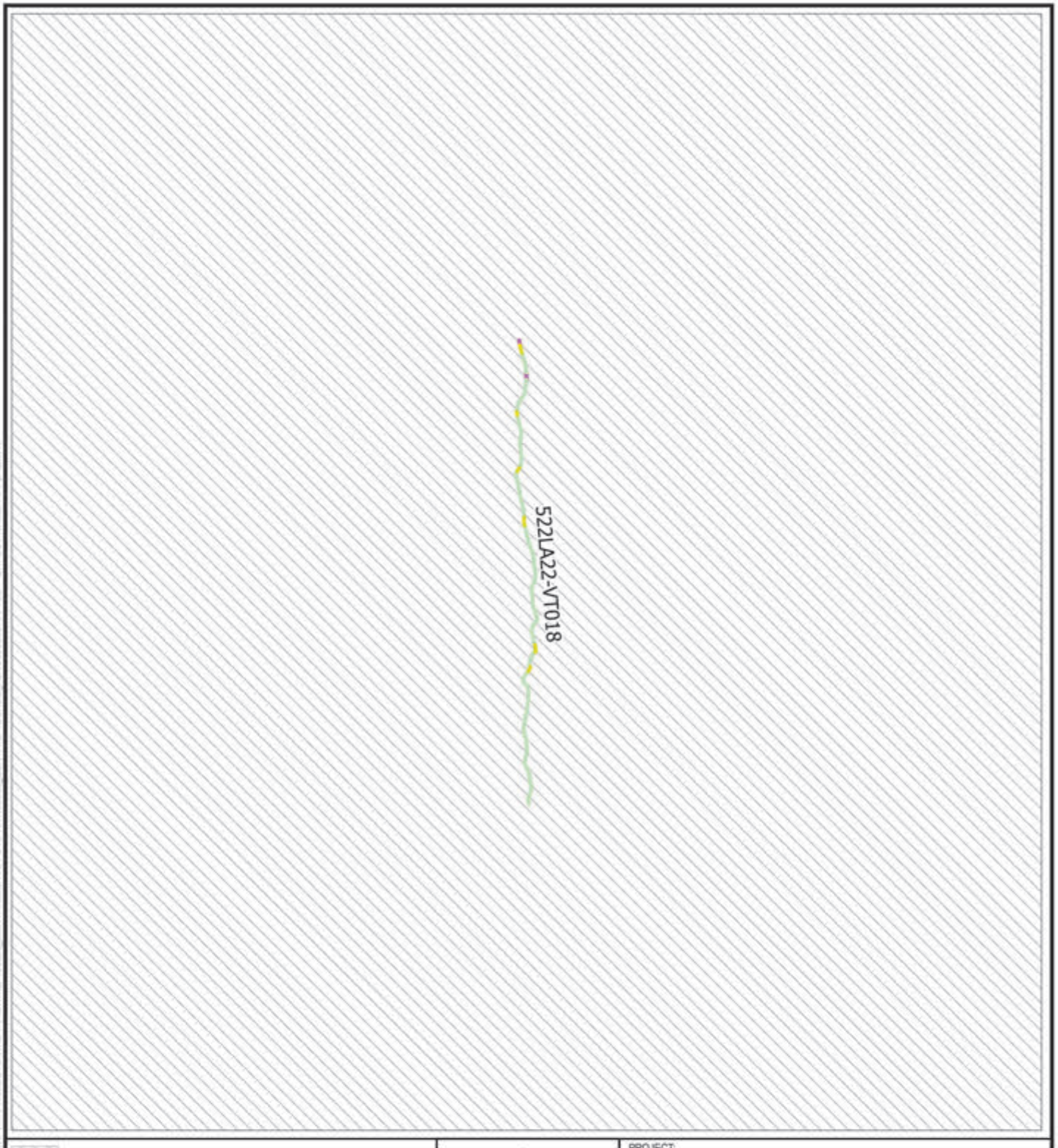
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT017

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD" - LAYOUT NAME: LAYOUT1

522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT019

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor

Sand

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

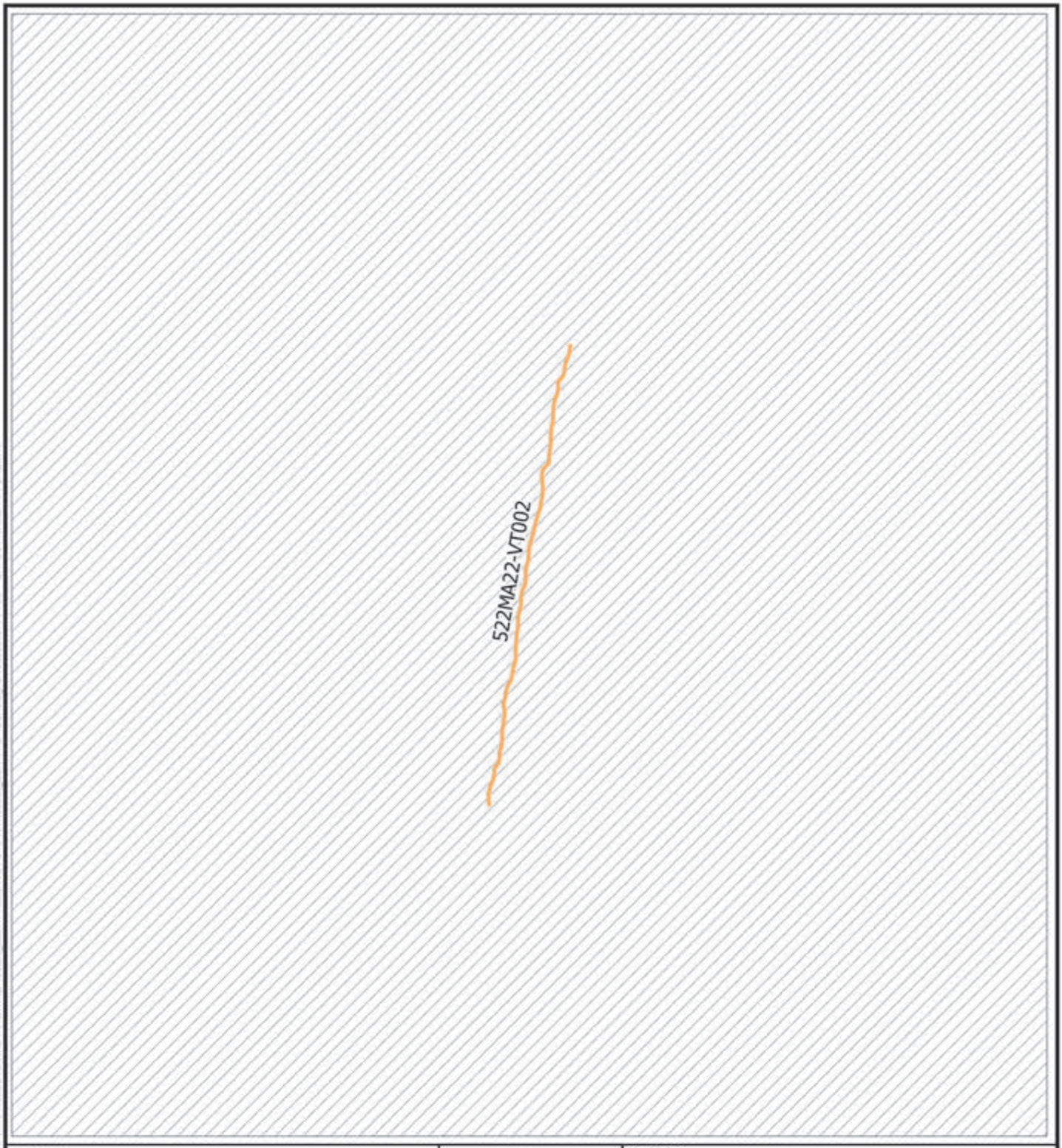
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT002	

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

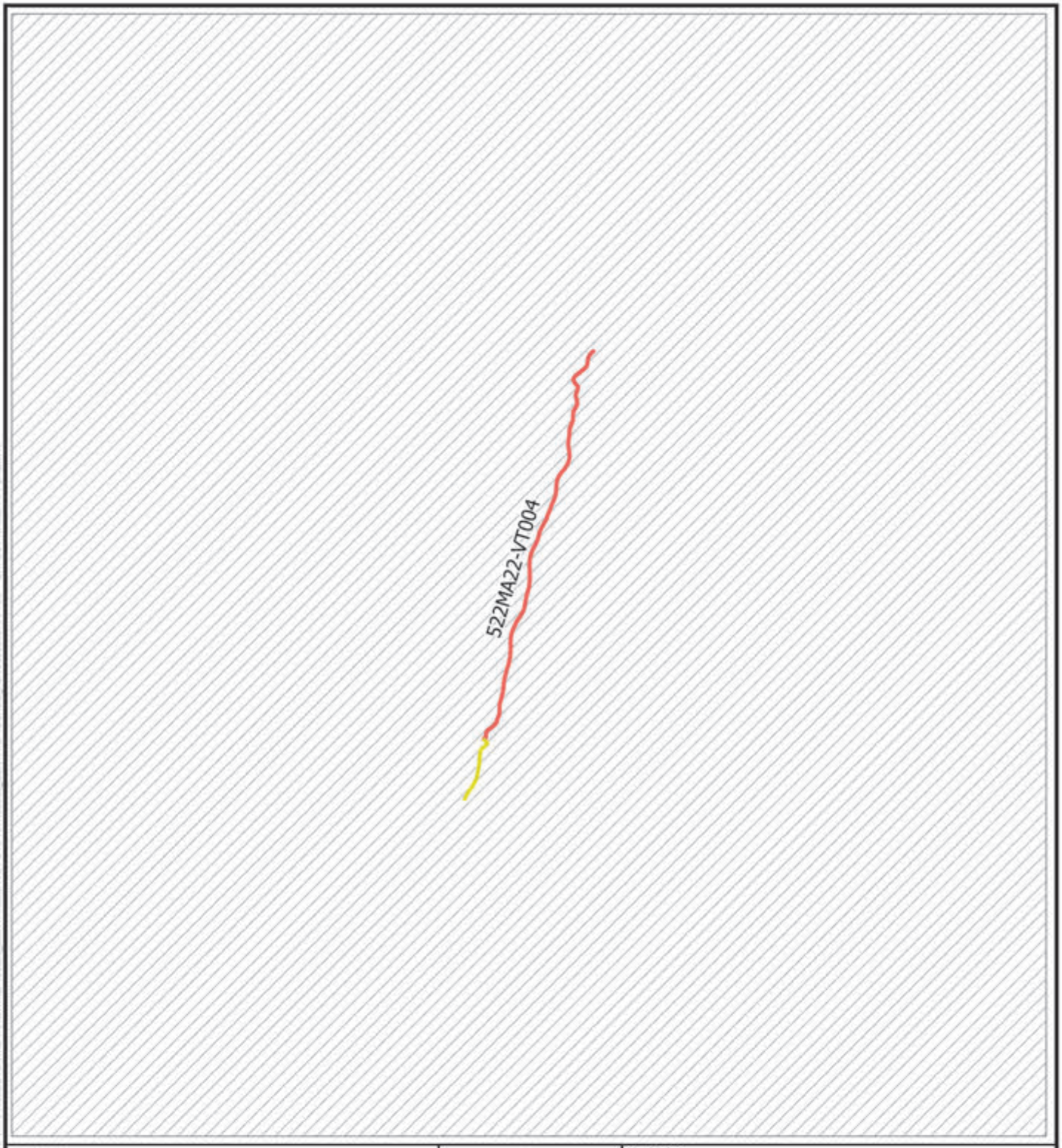
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel Mixes
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

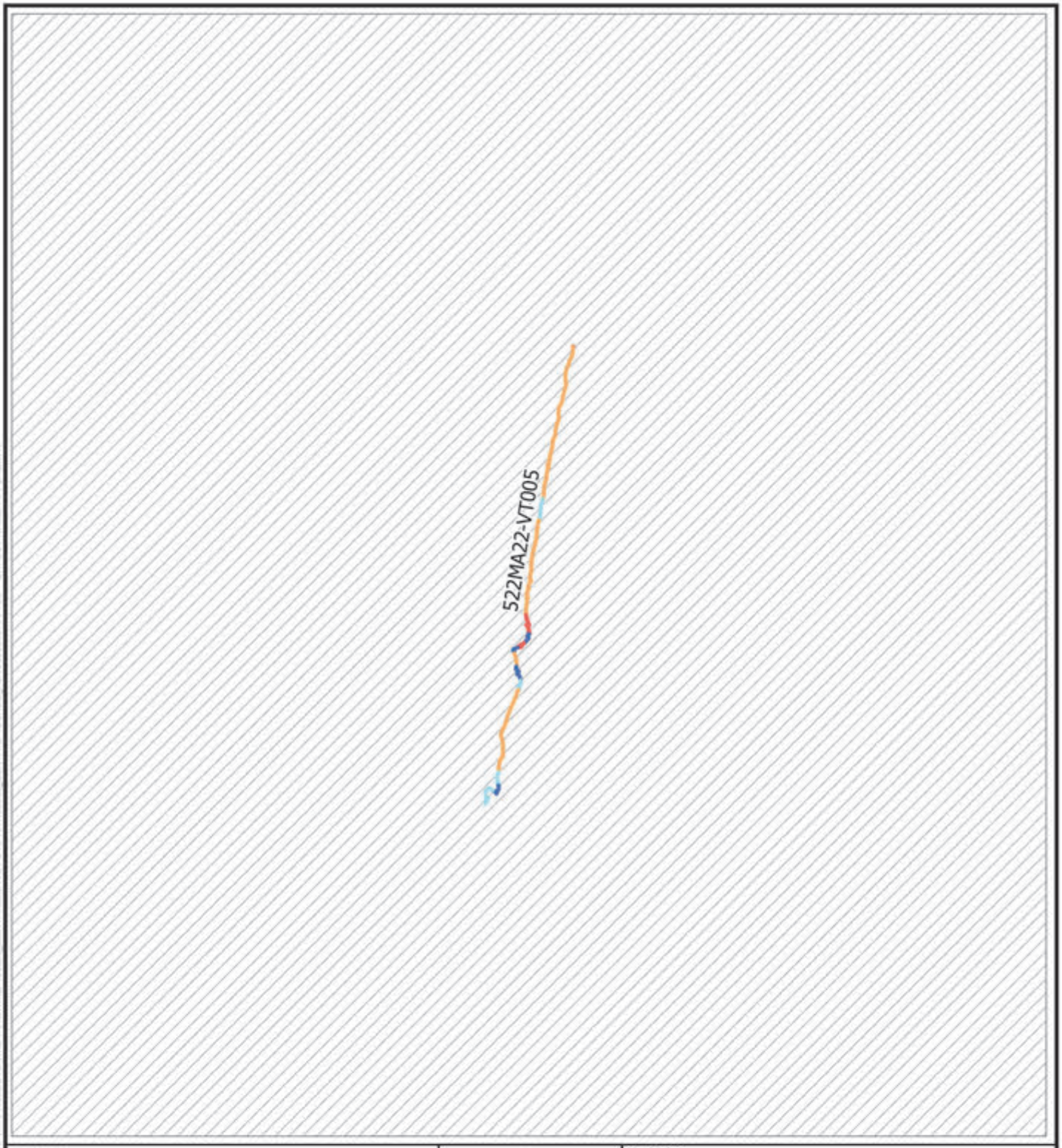
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

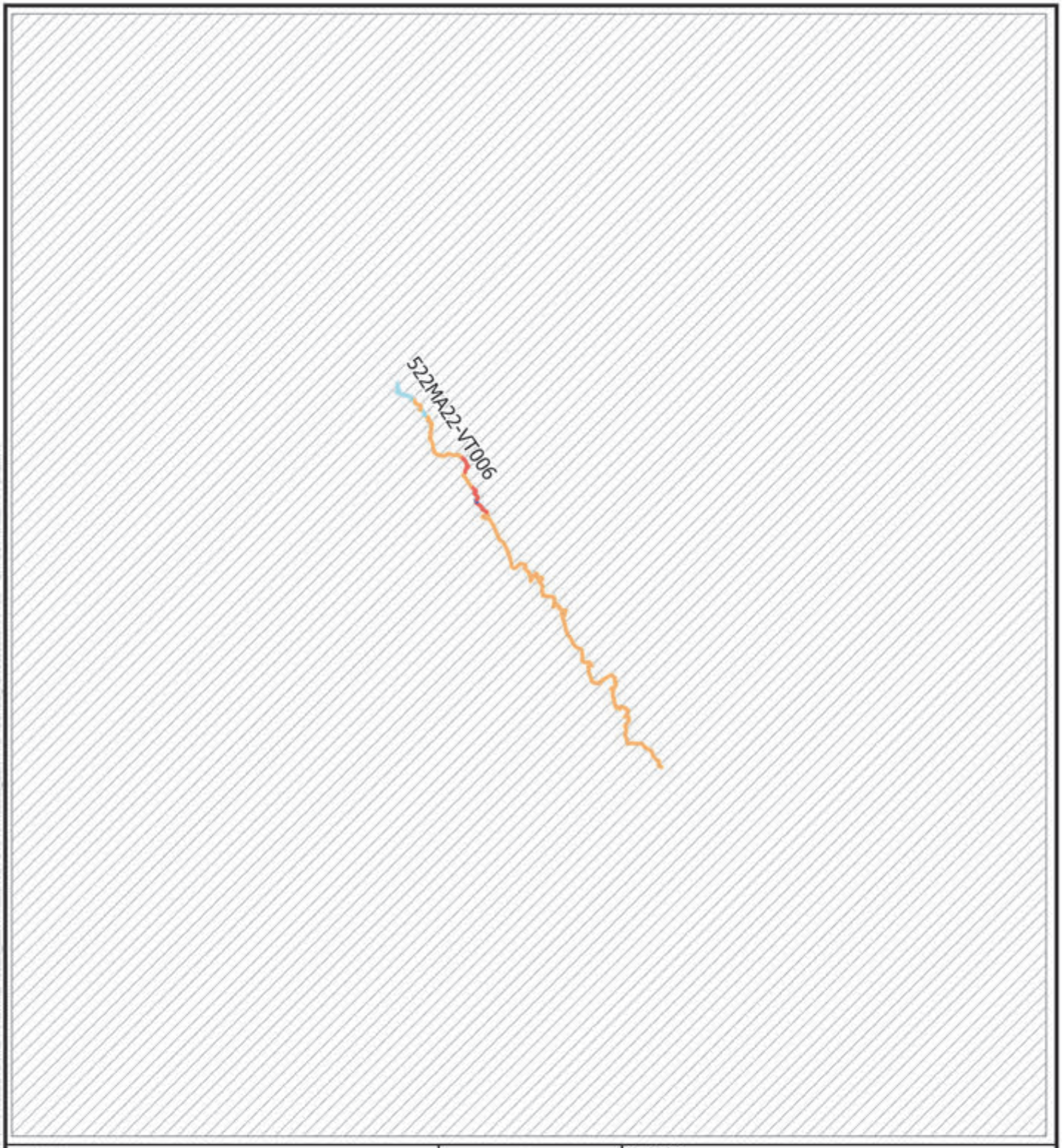
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAPPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

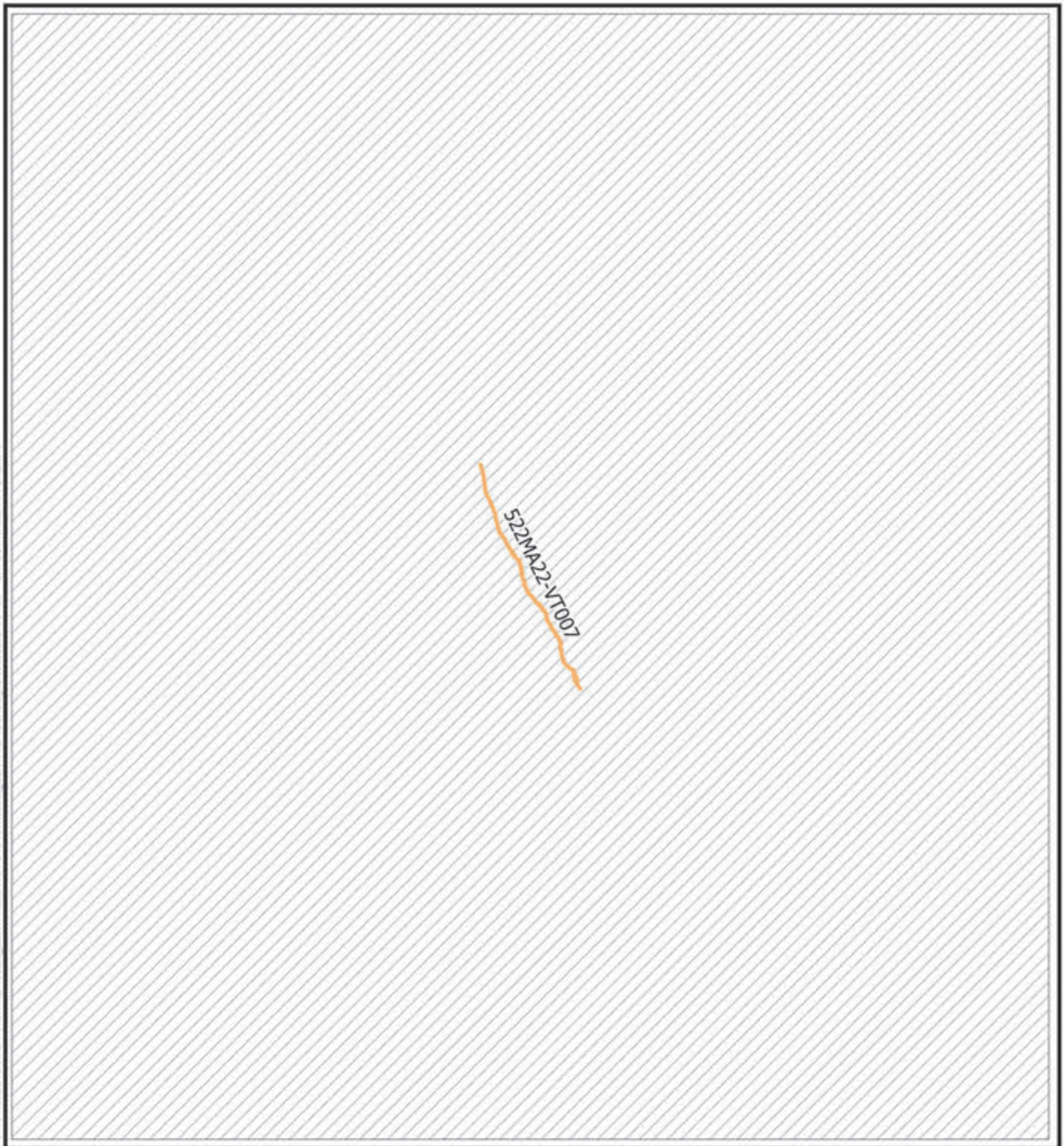
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT006

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

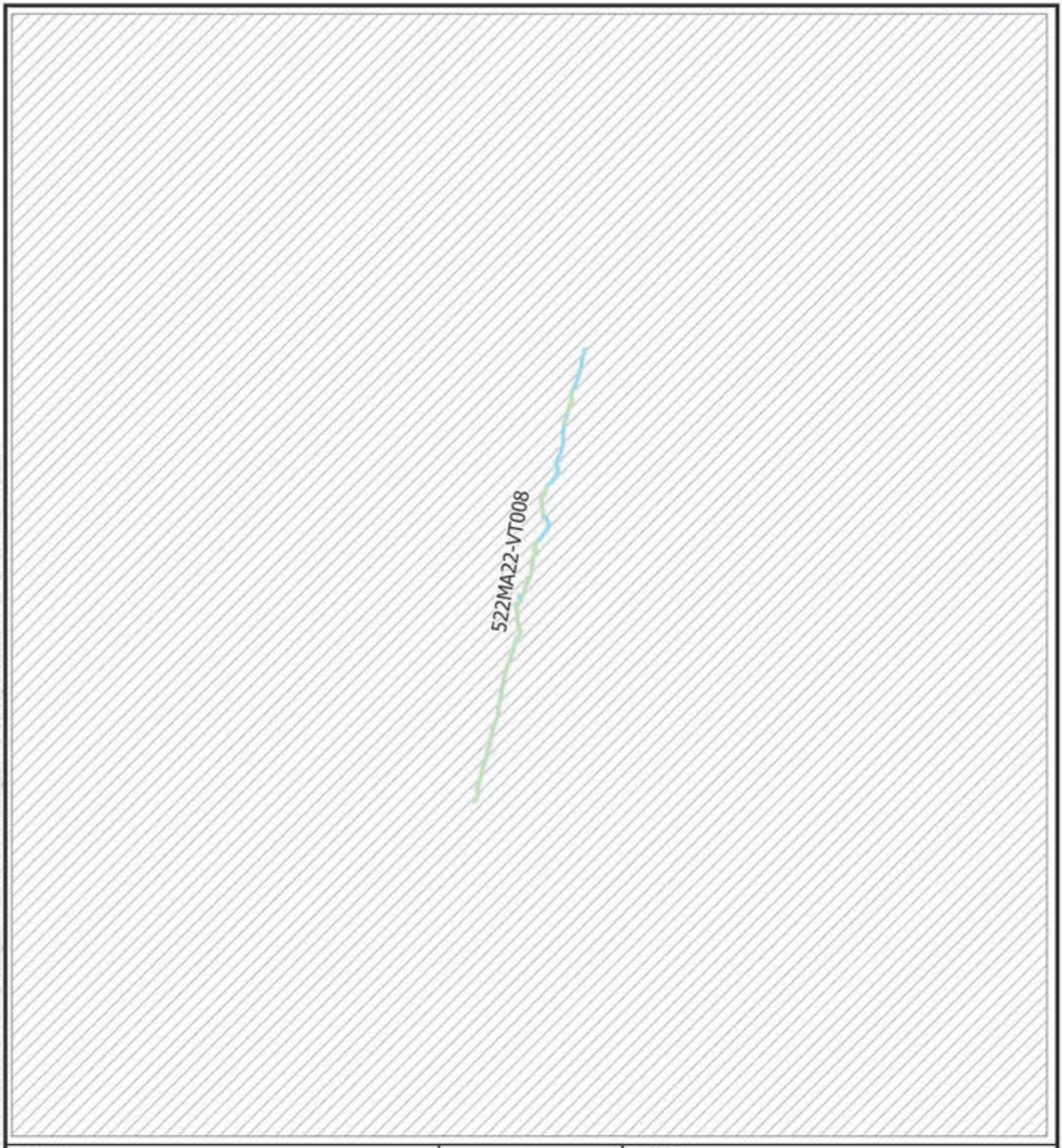
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

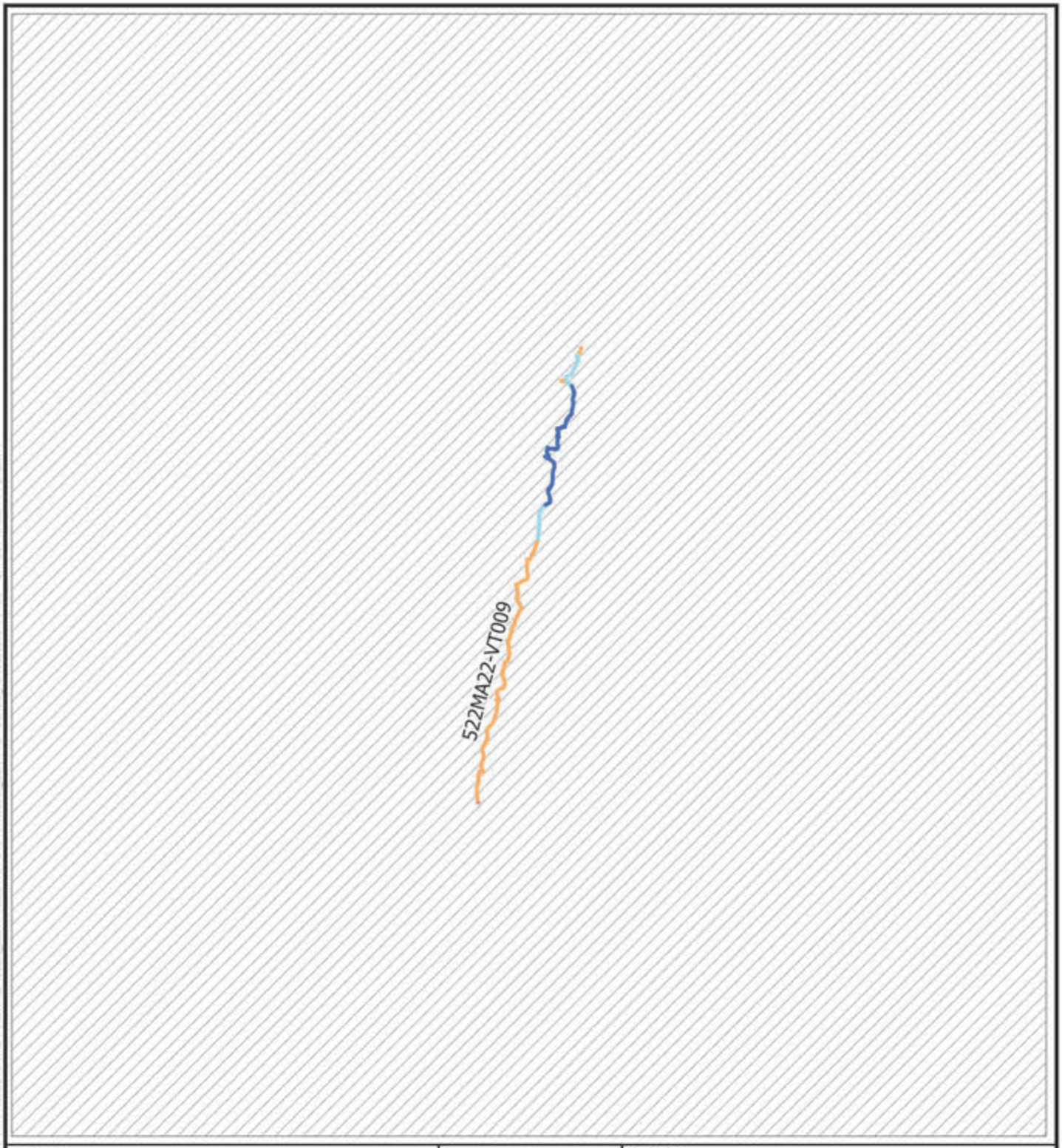
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

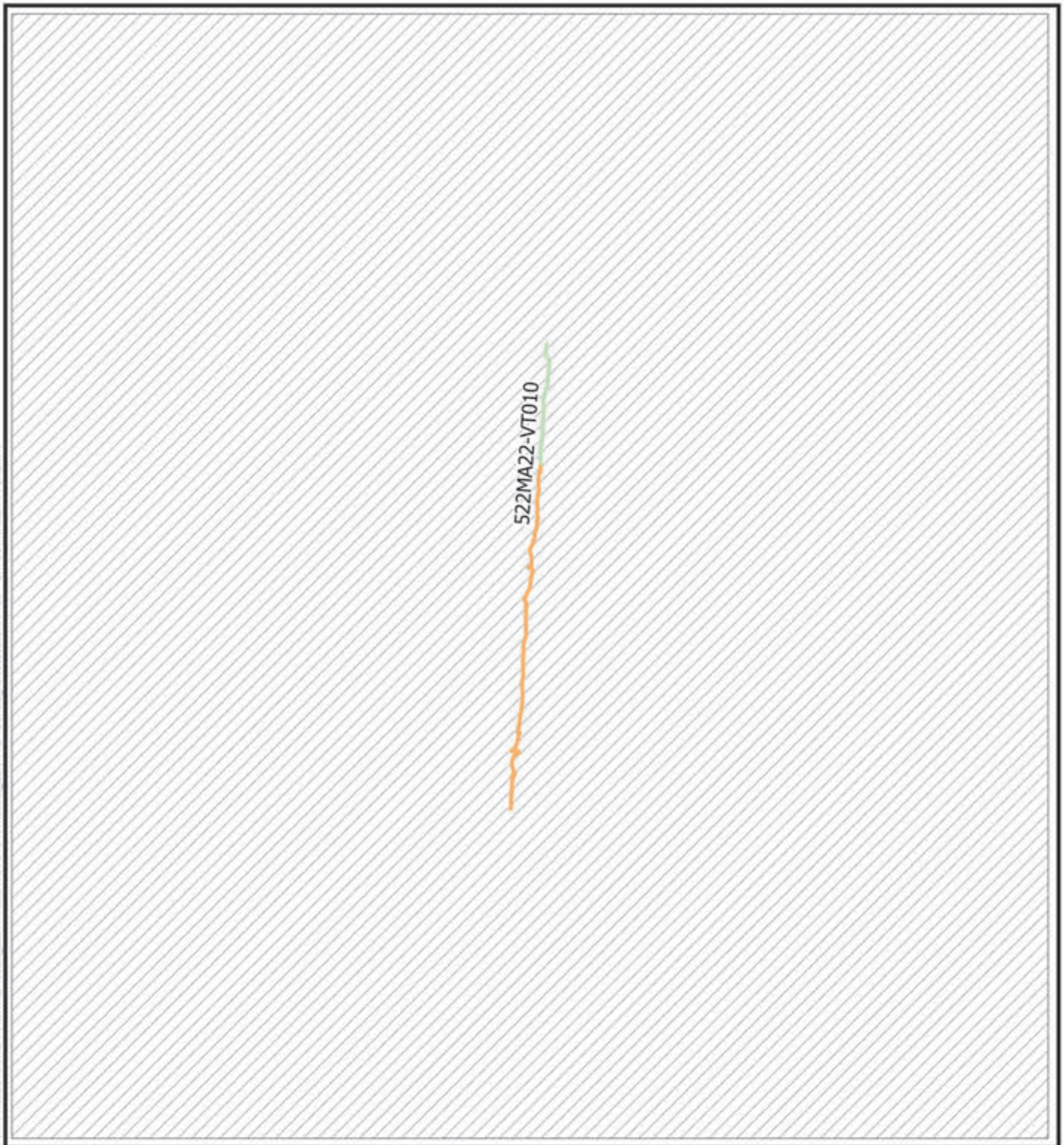
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 13:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARDWIND\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

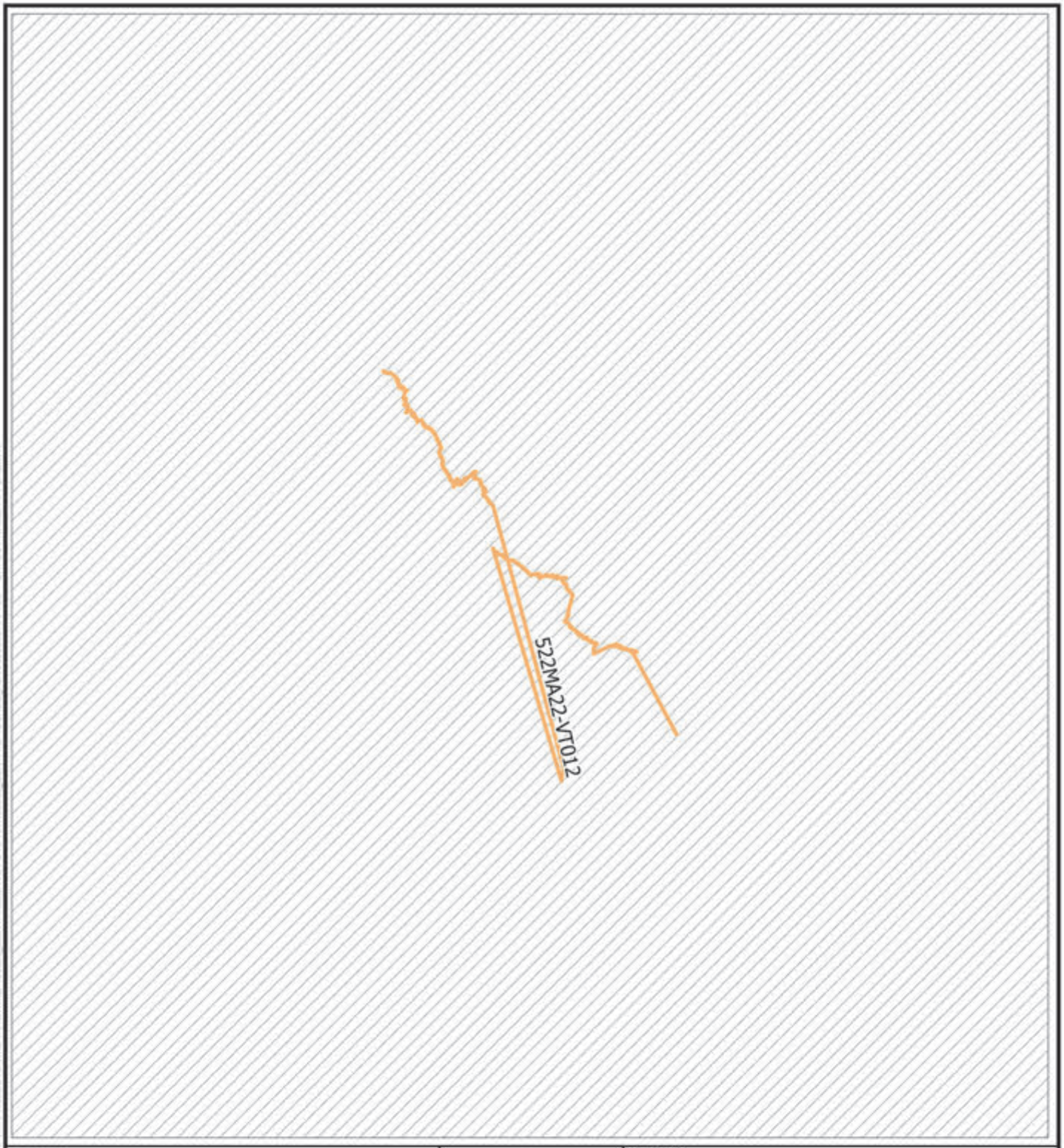
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

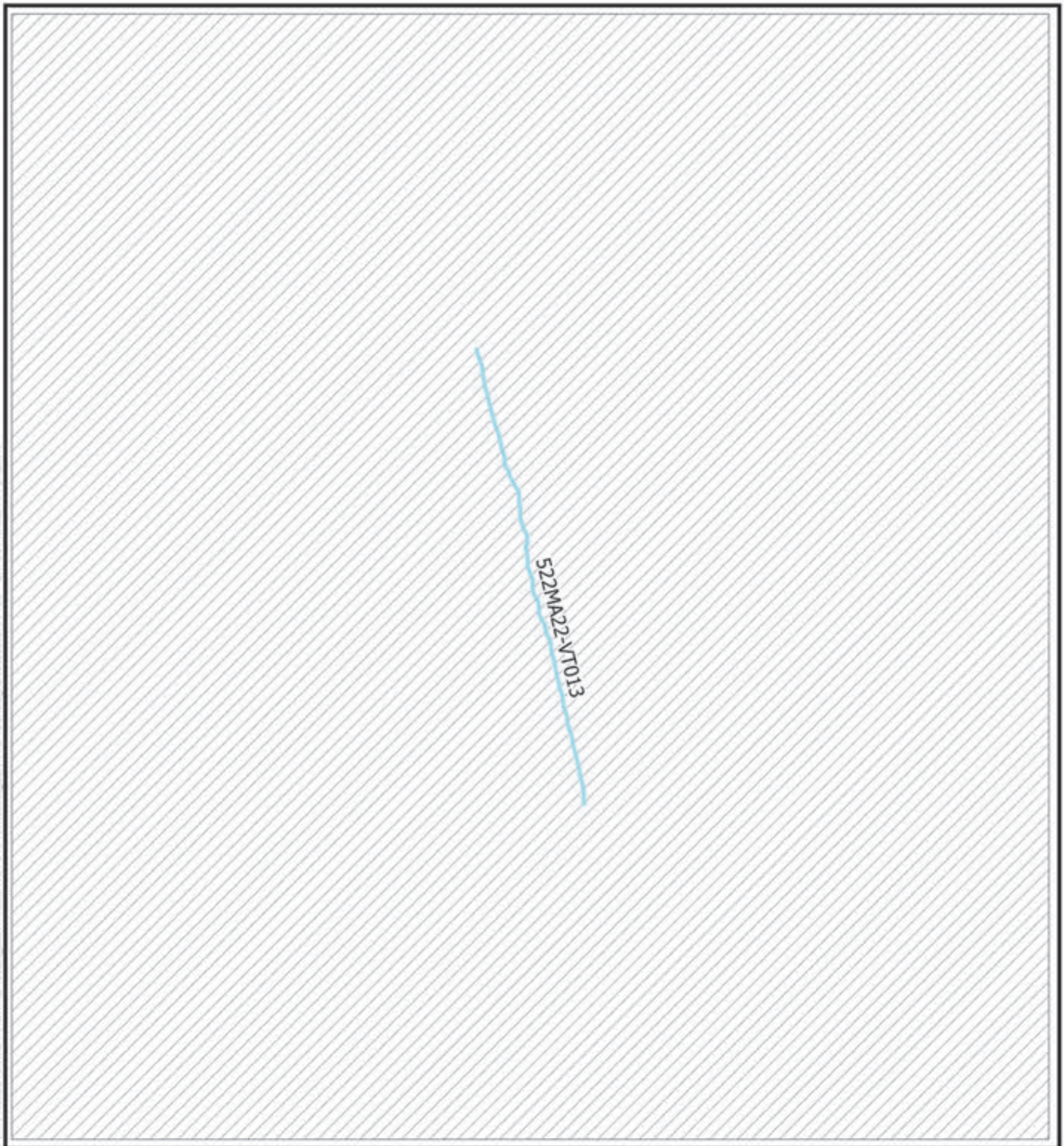
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Gravelly

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

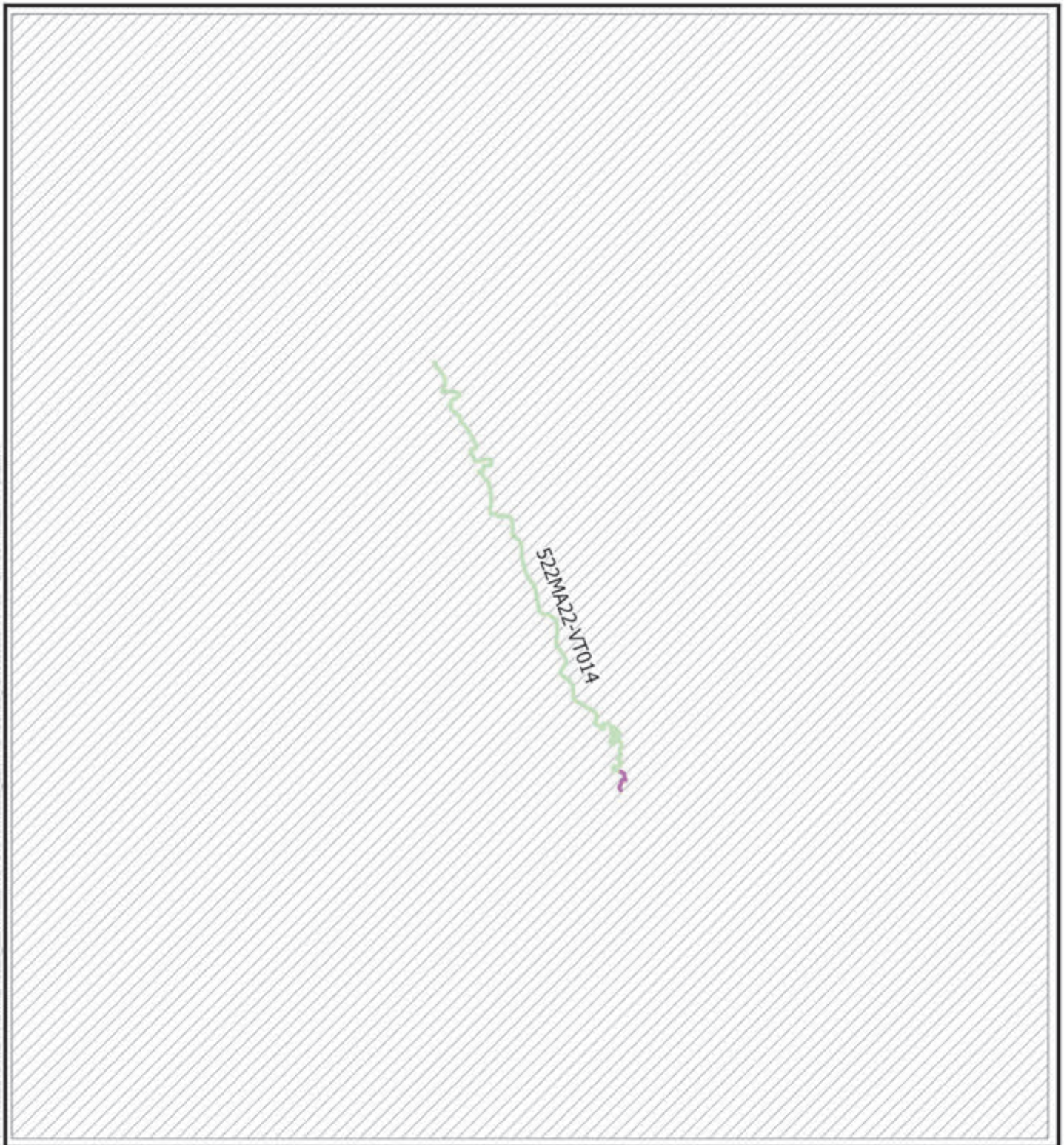
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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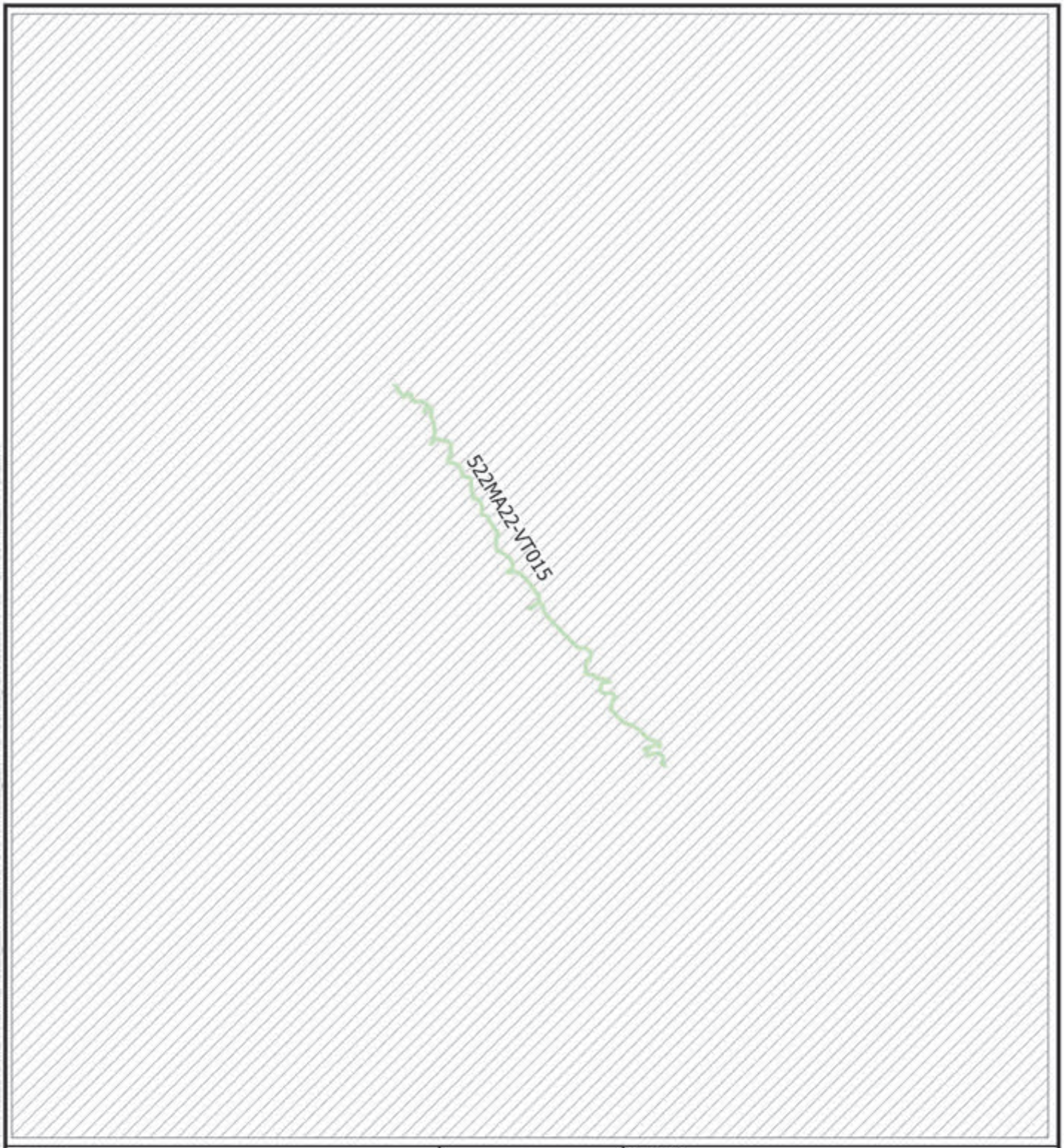


MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

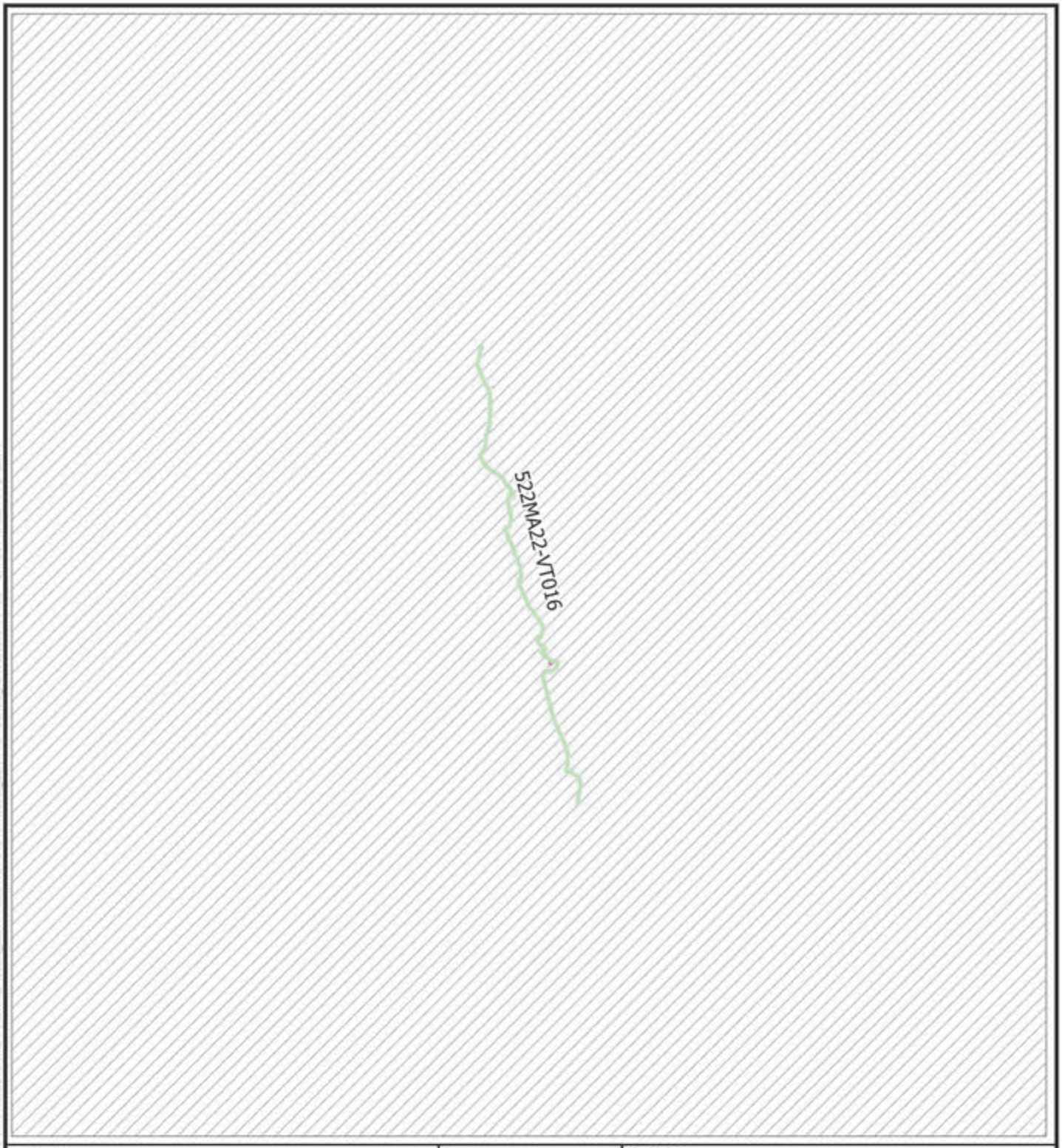
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT015	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVES\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

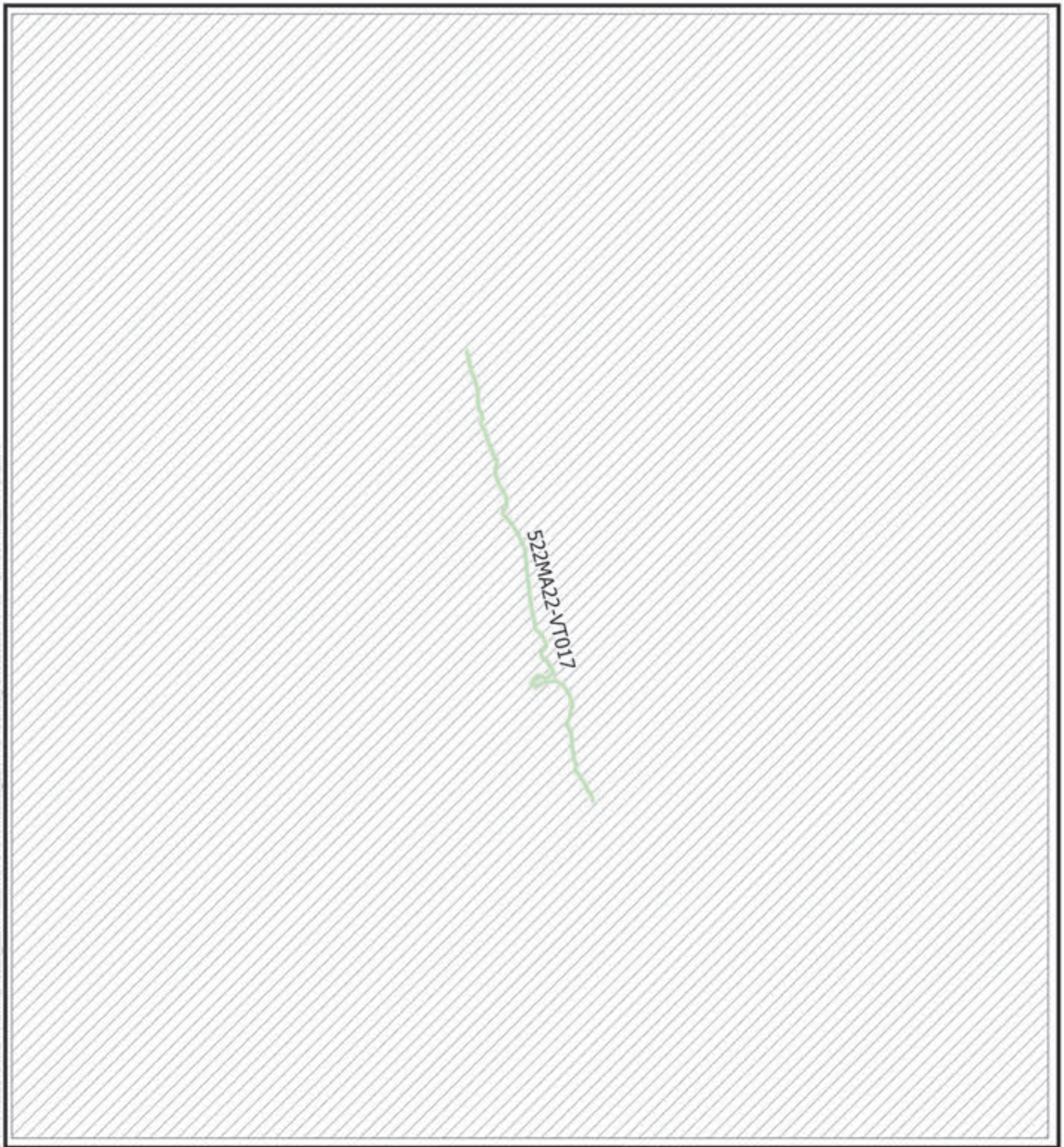
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARDWIND\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT017	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

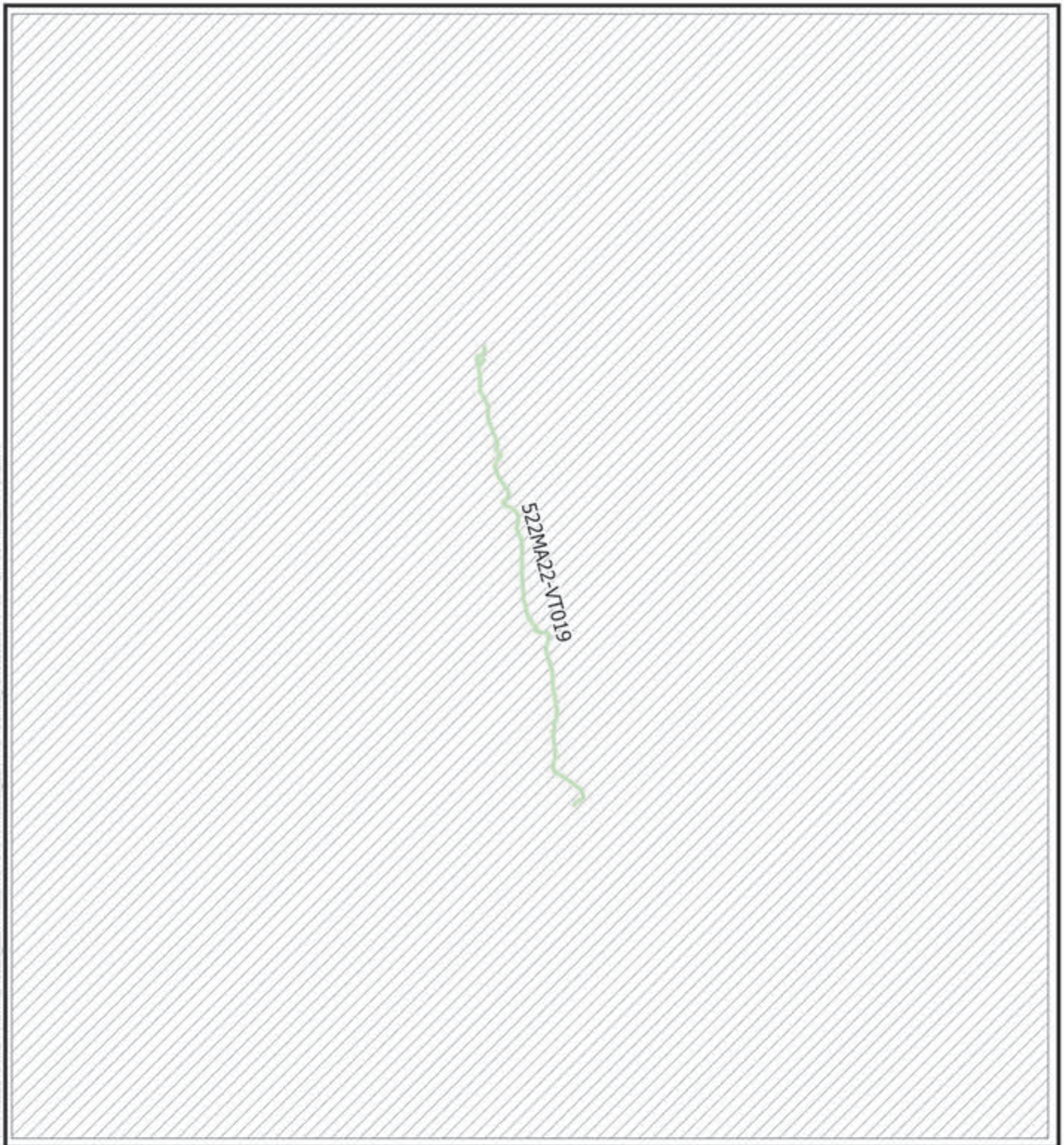
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

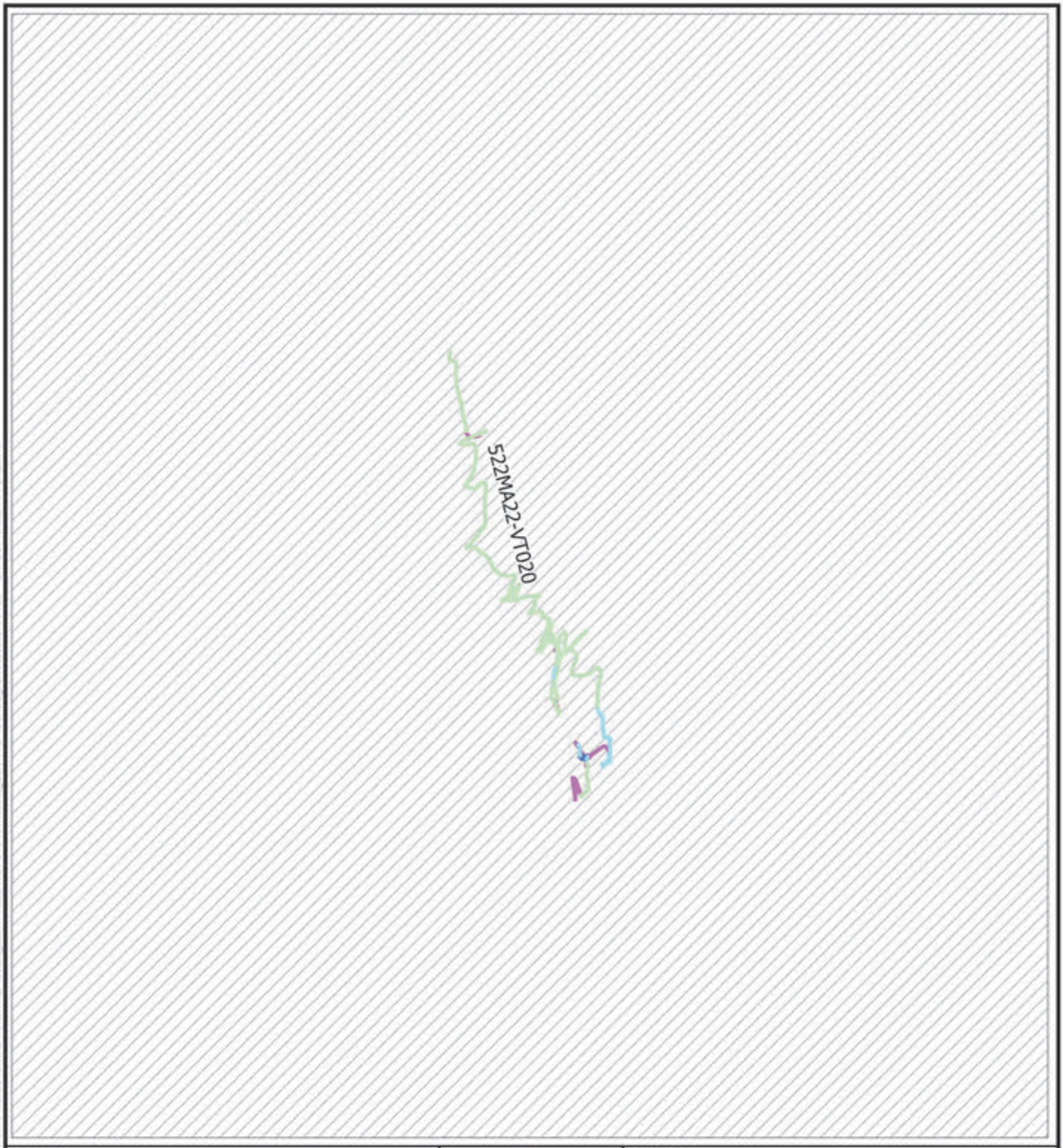
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT019	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

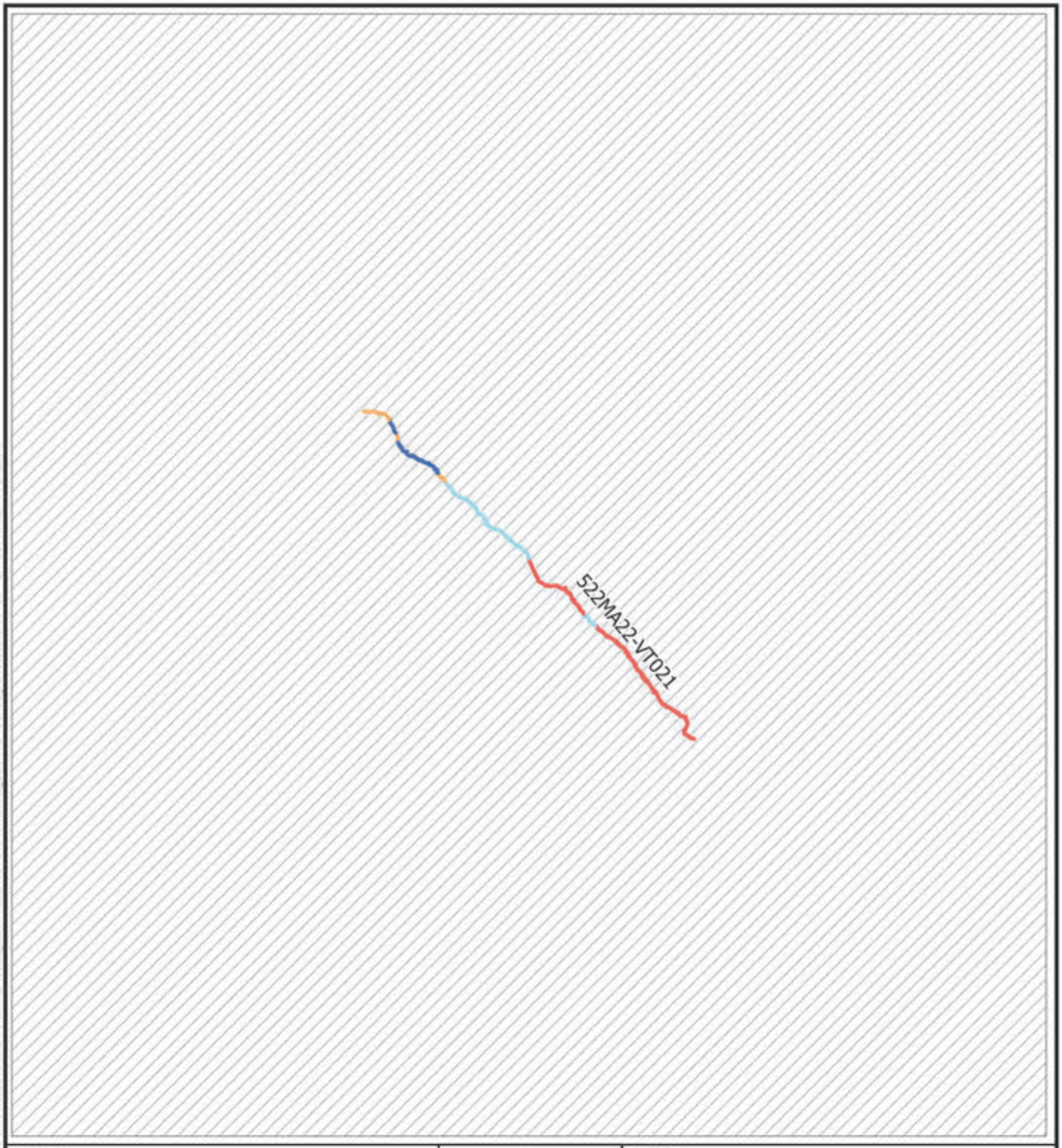
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT020

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT021

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

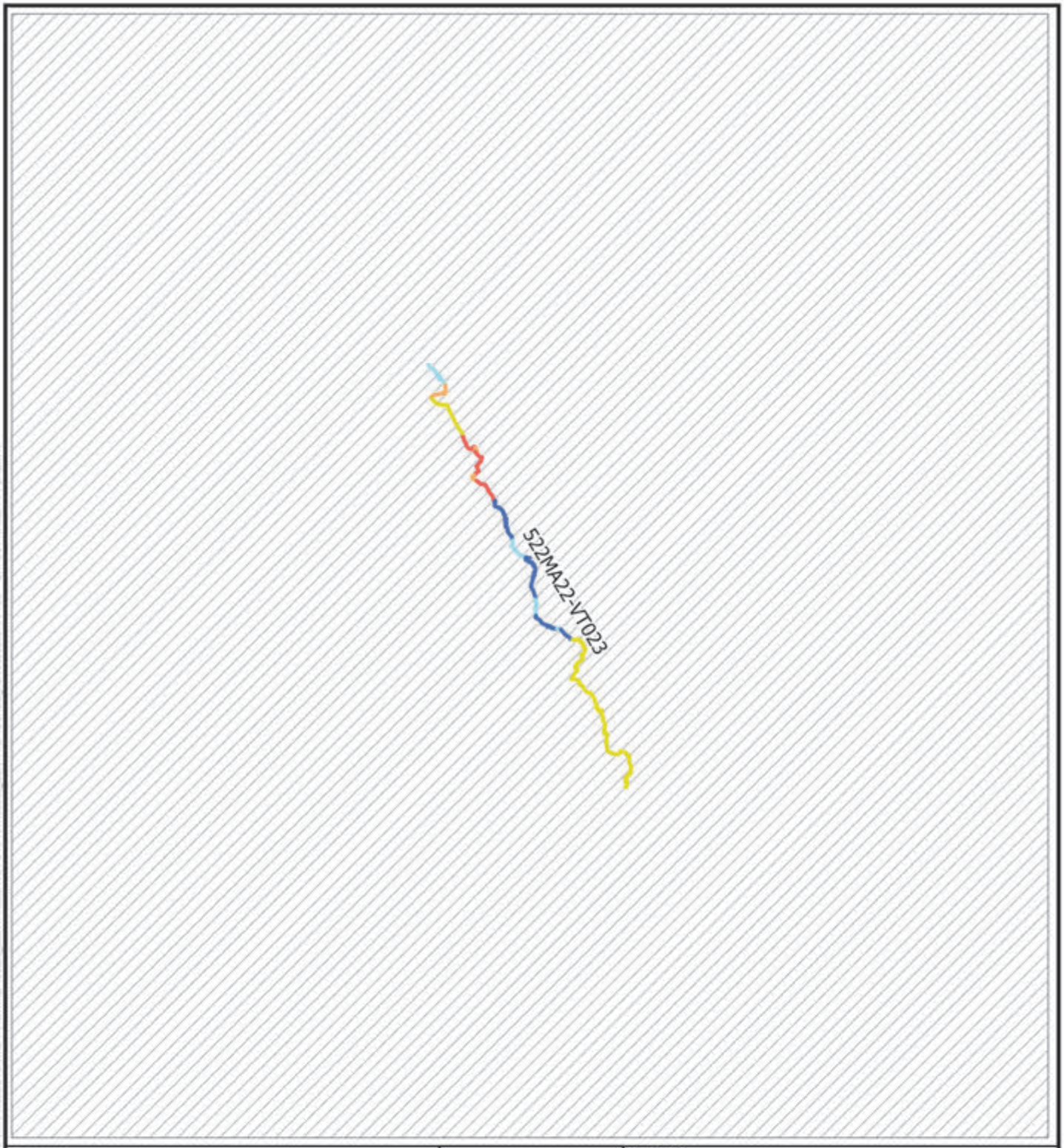
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\ARCMAPS_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

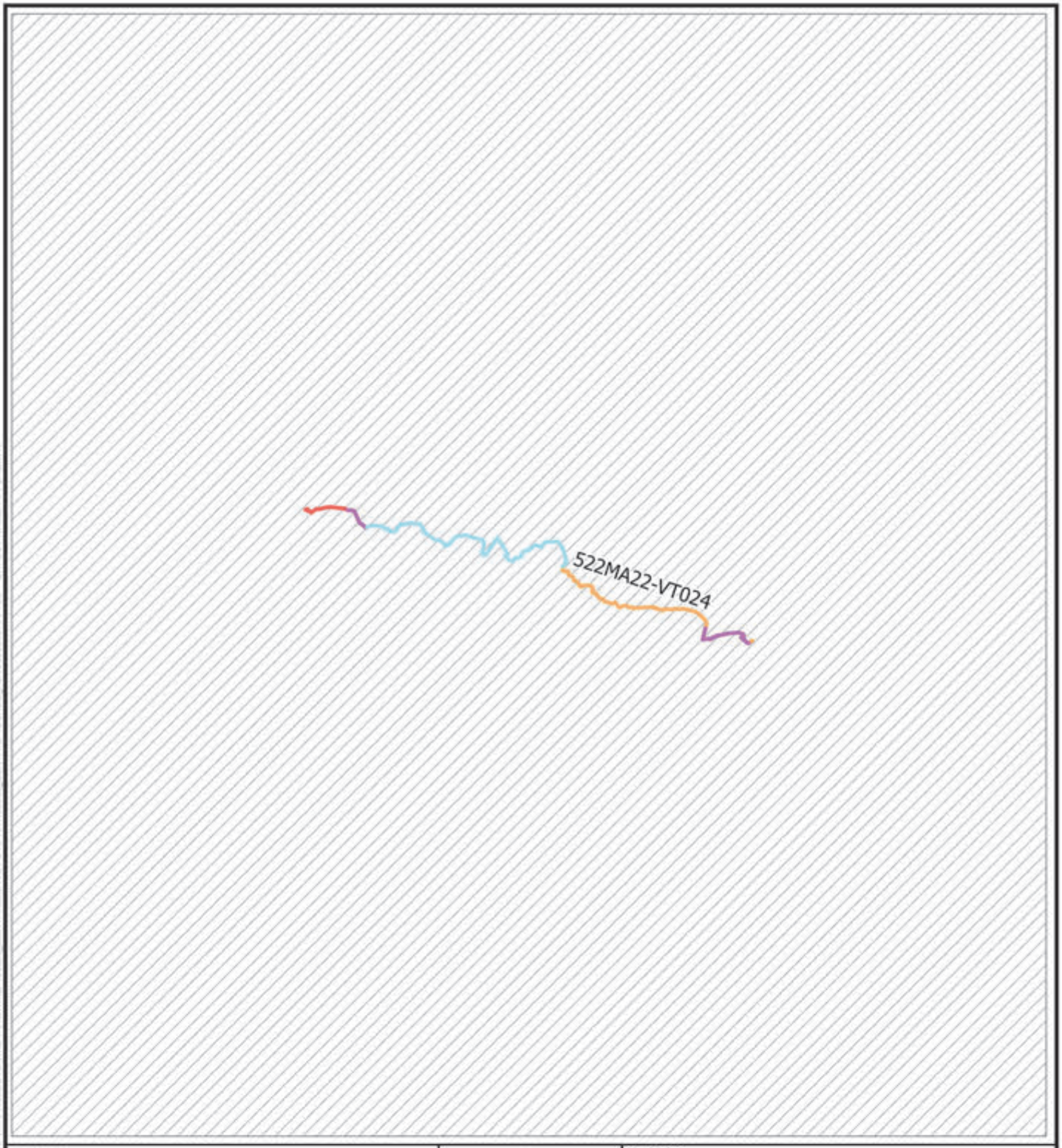
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT023

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARDWIND\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

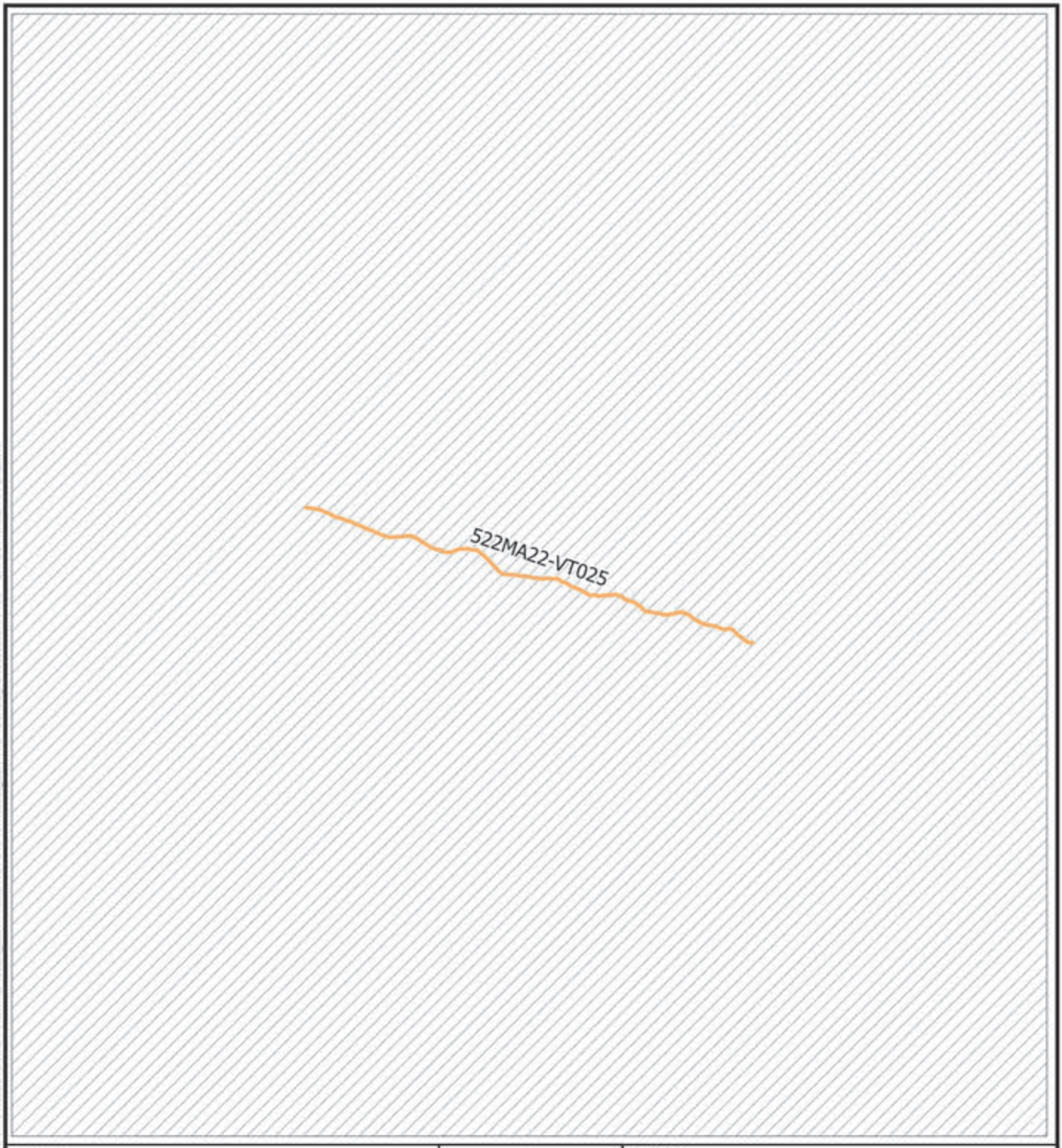
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT024

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

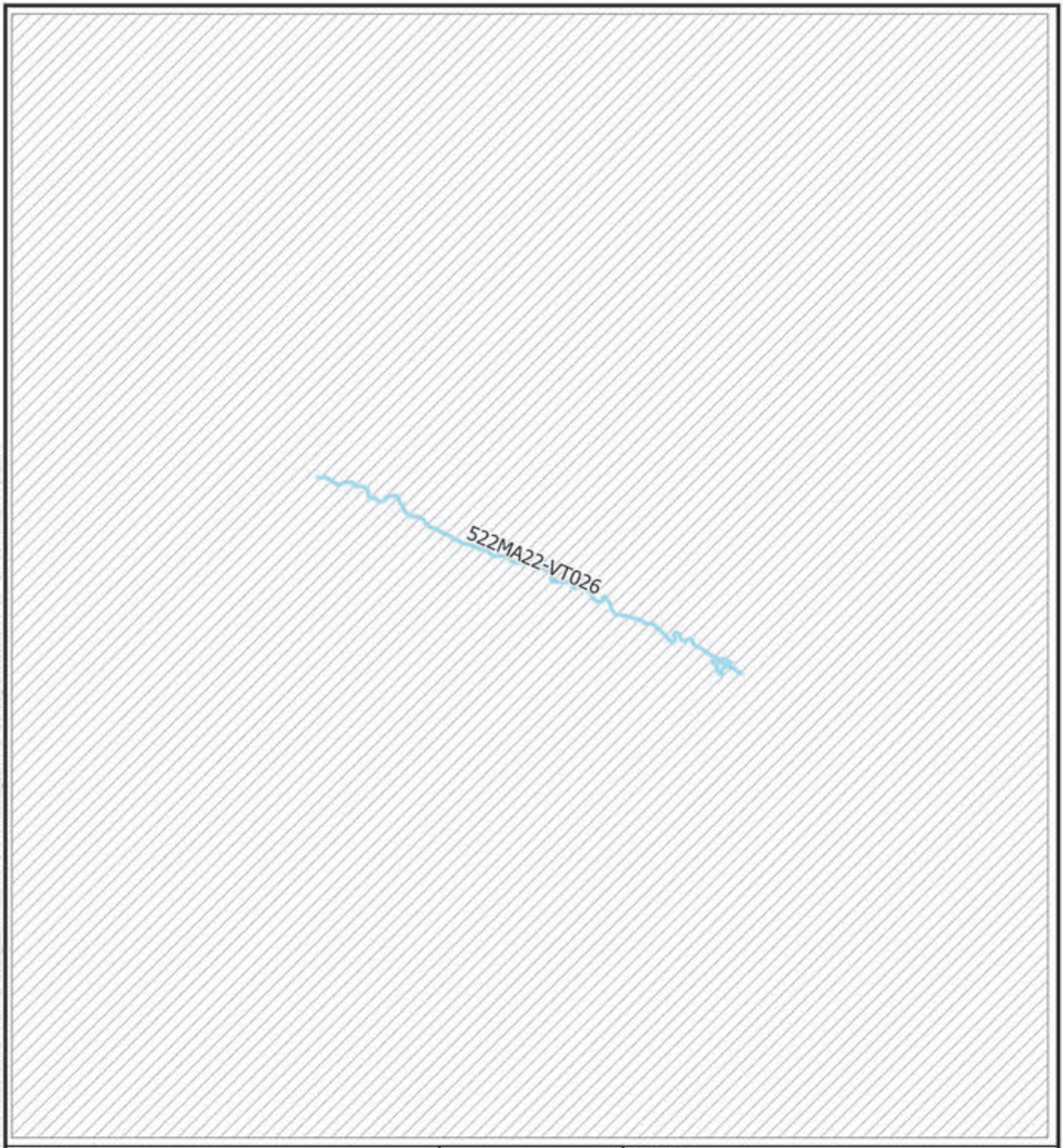
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT025

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAPPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Gravelly

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

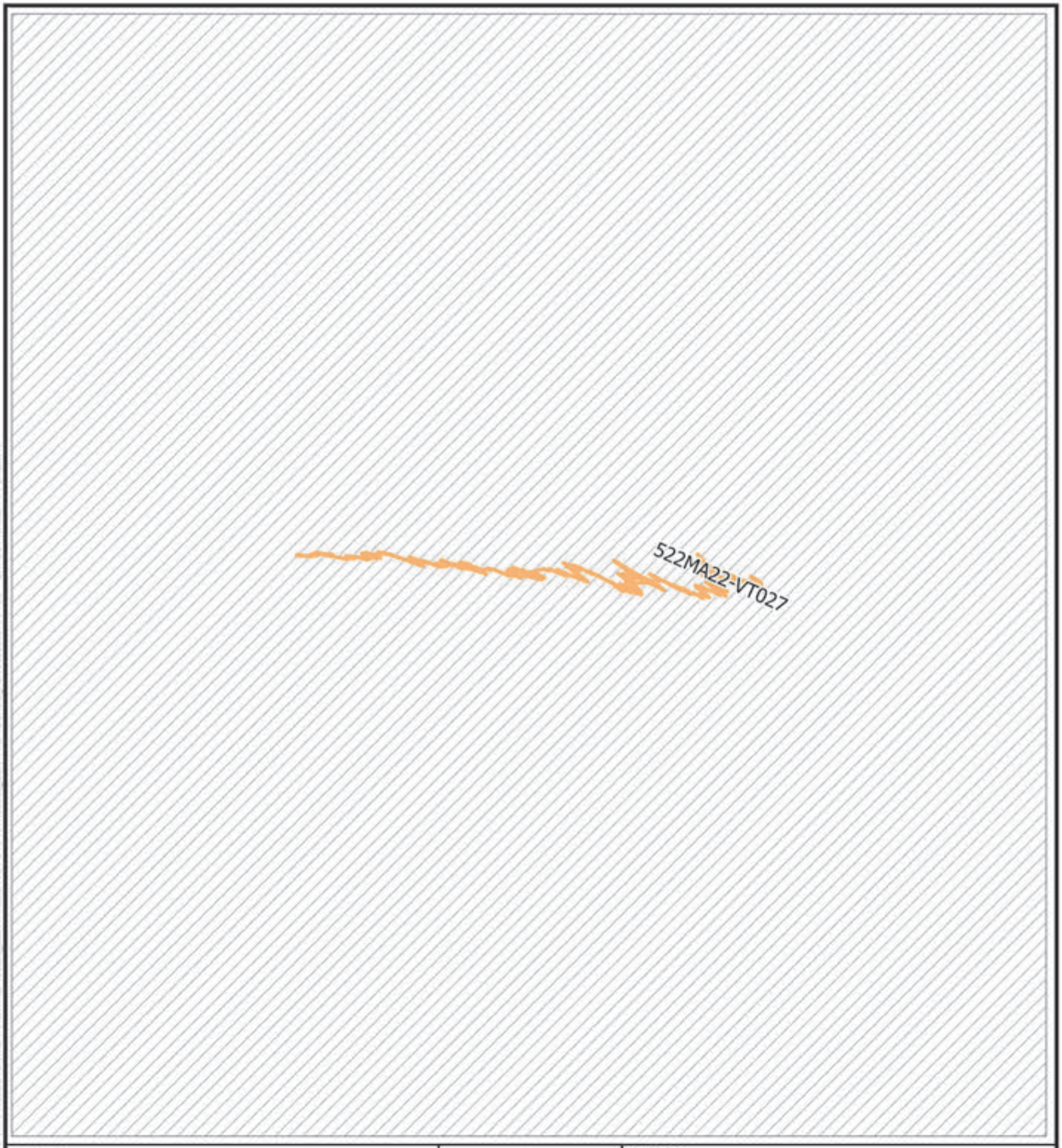
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT026

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

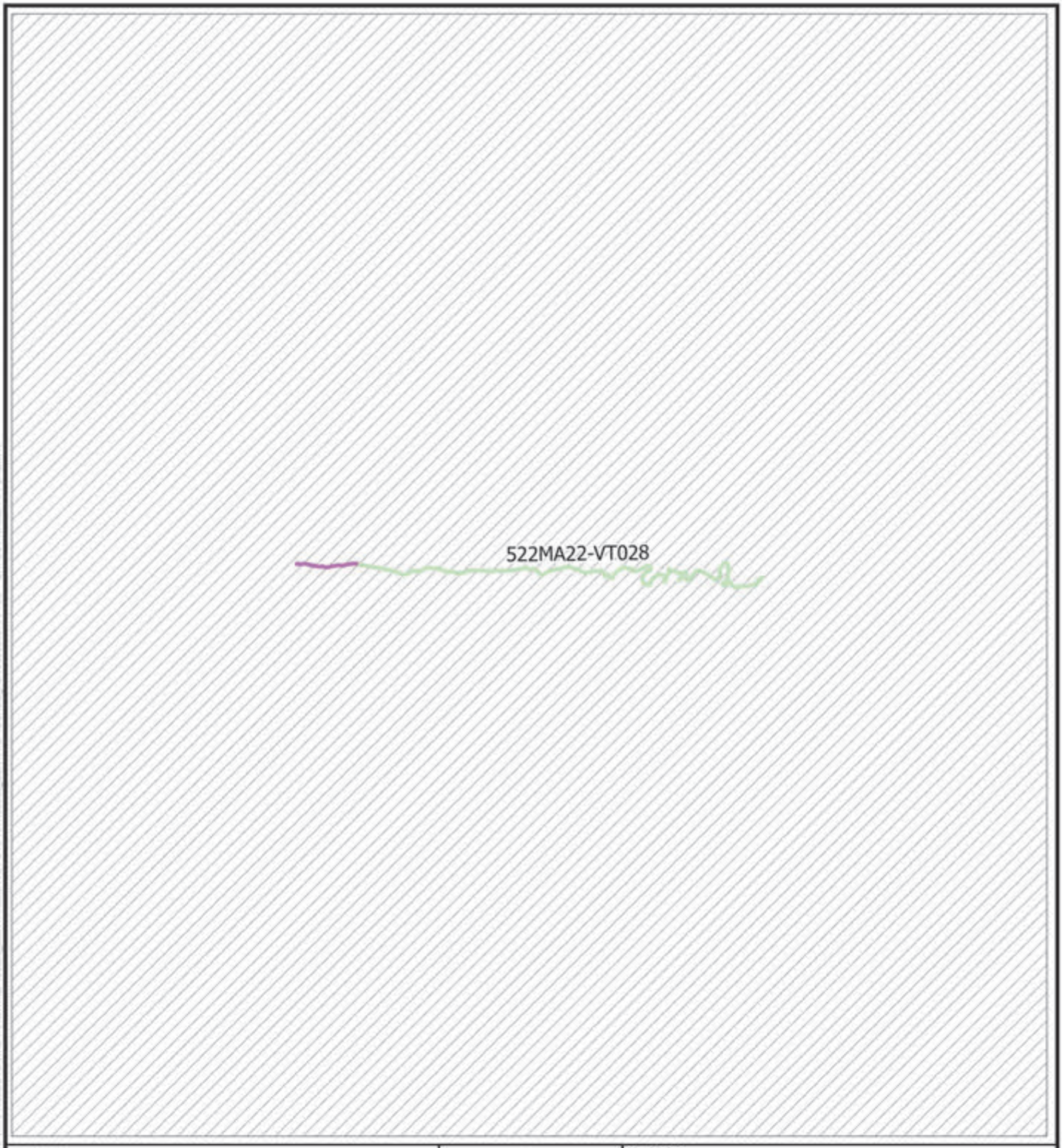
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT027

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

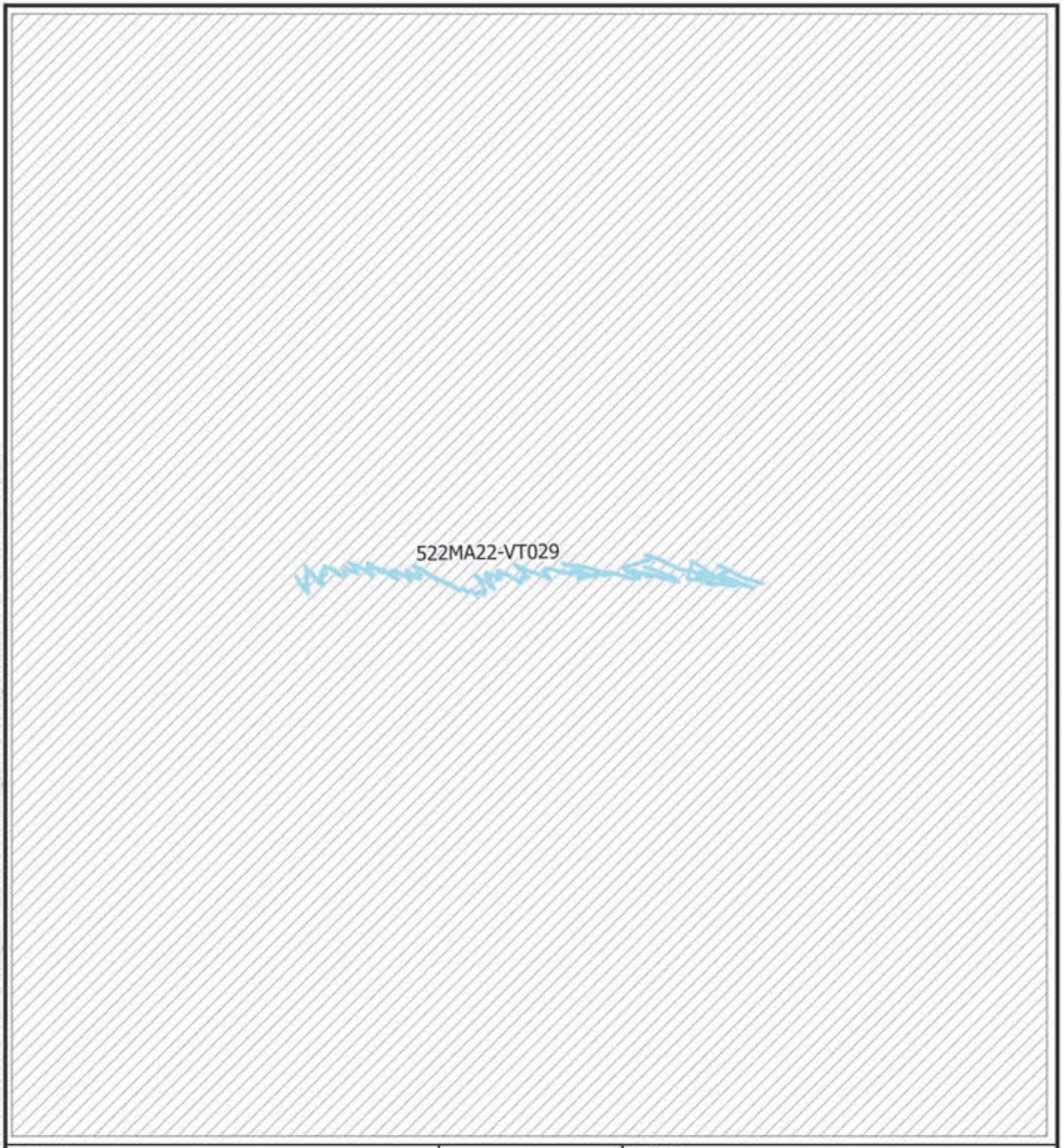
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT028	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Gravelly

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

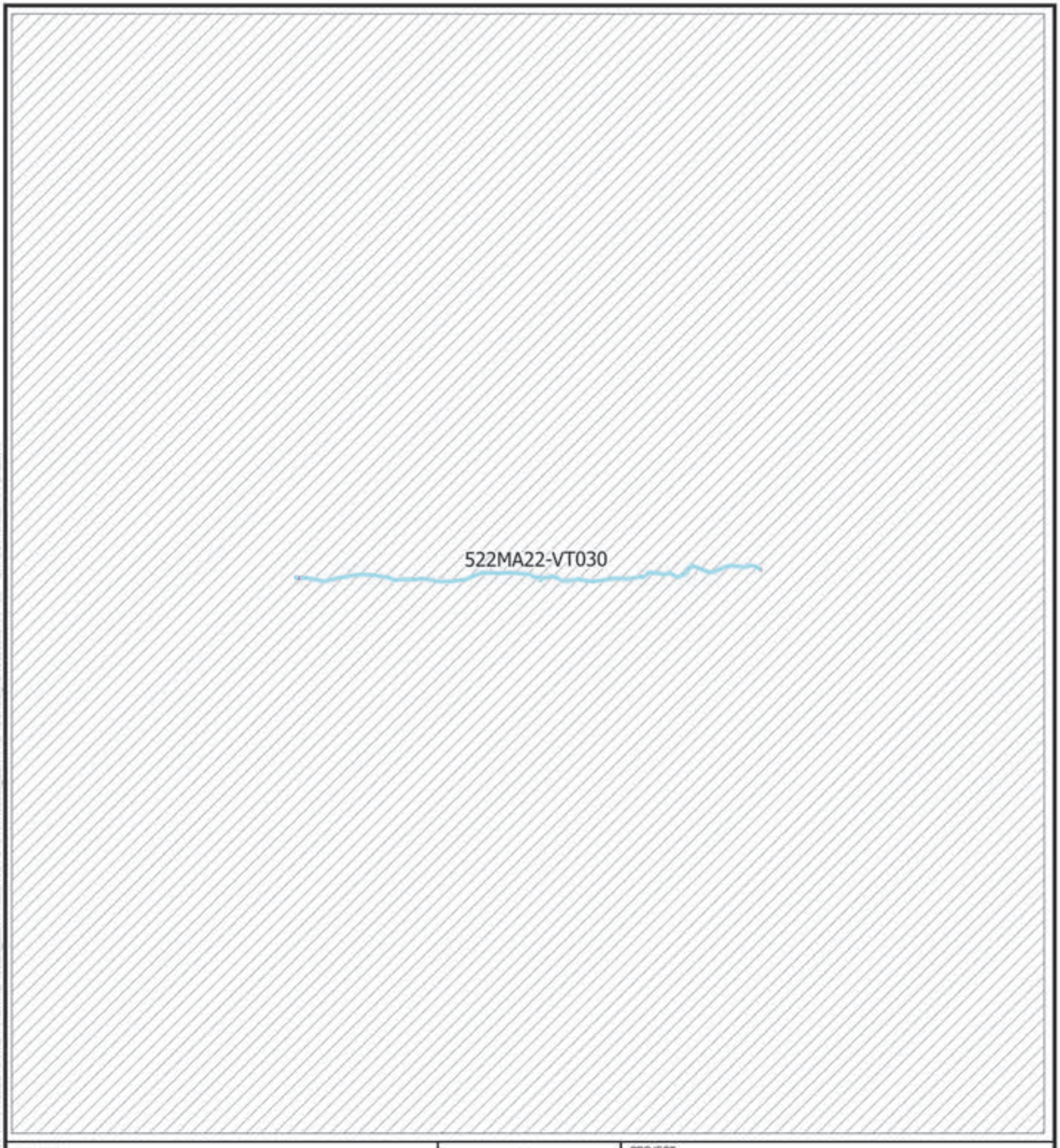
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT029

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYERS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

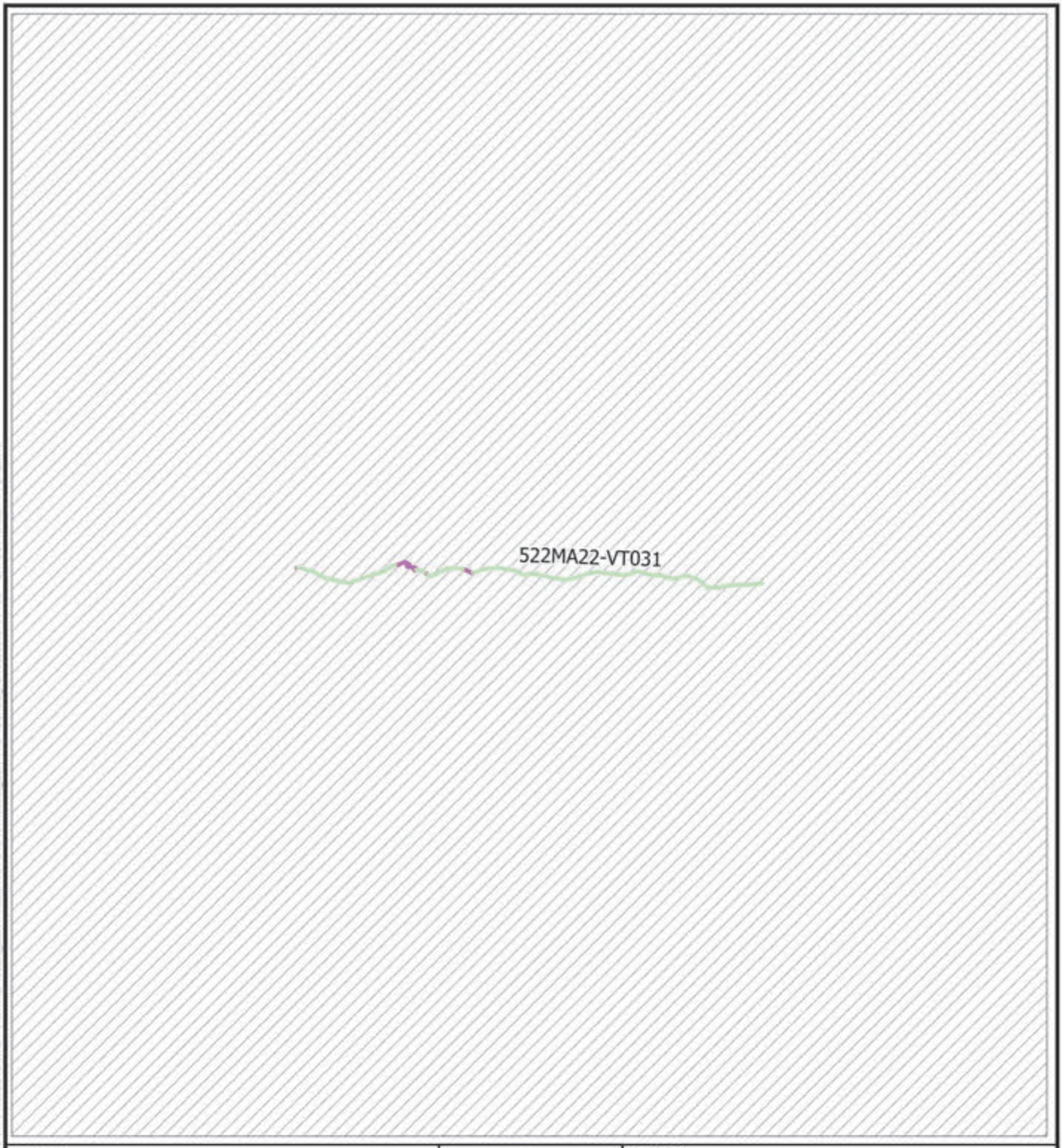
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT030

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

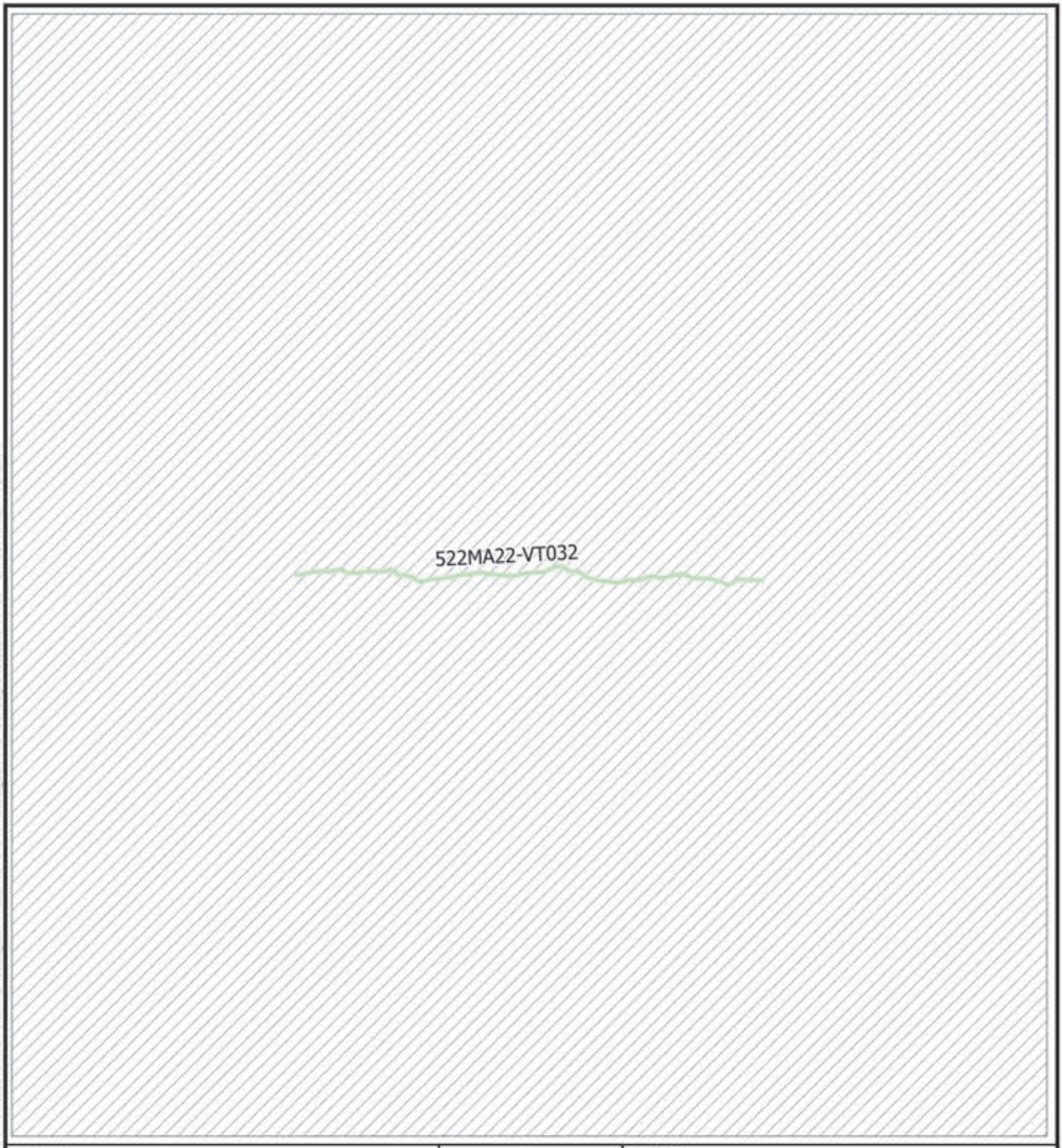
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT031

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

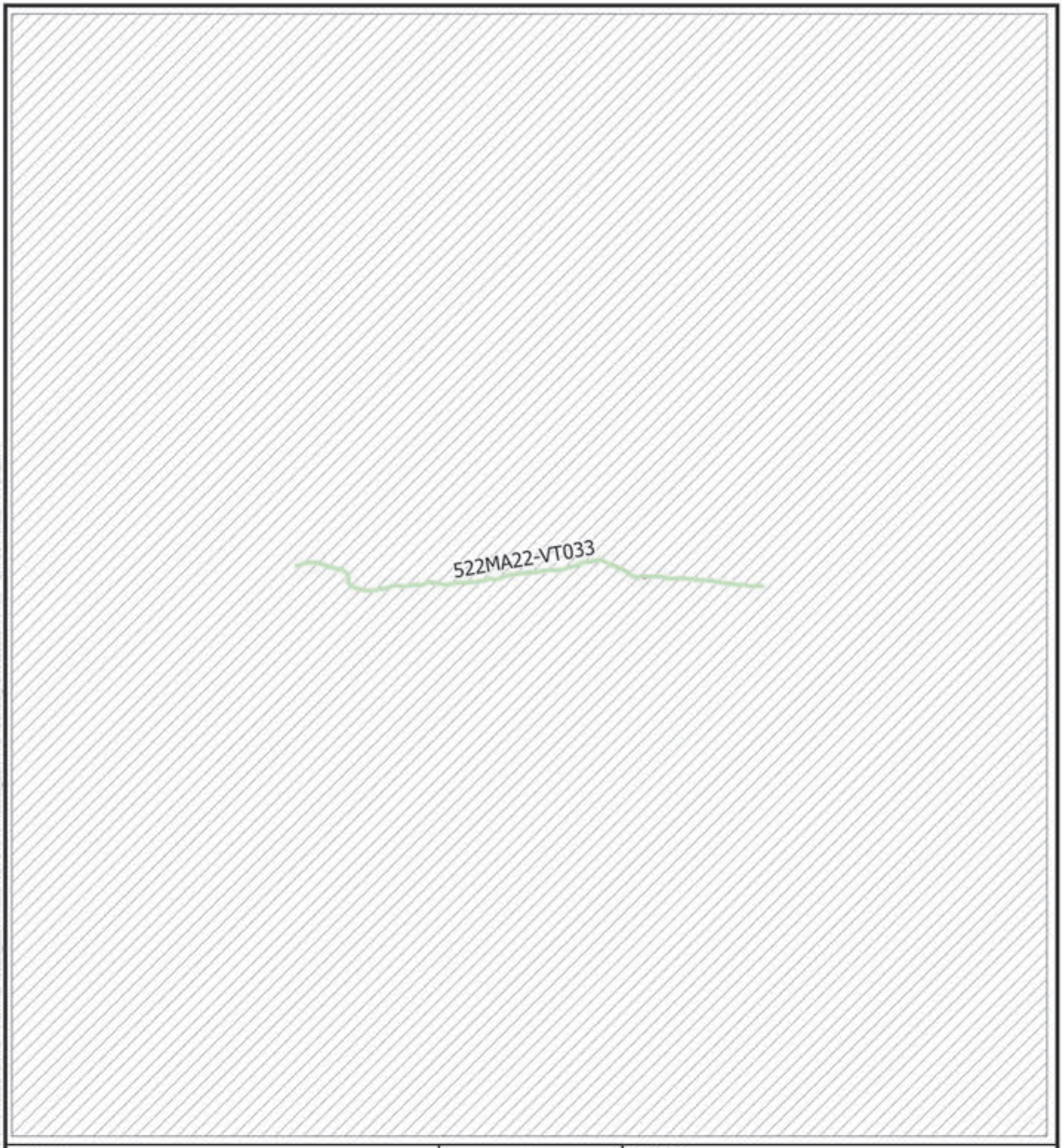
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT032	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT033

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

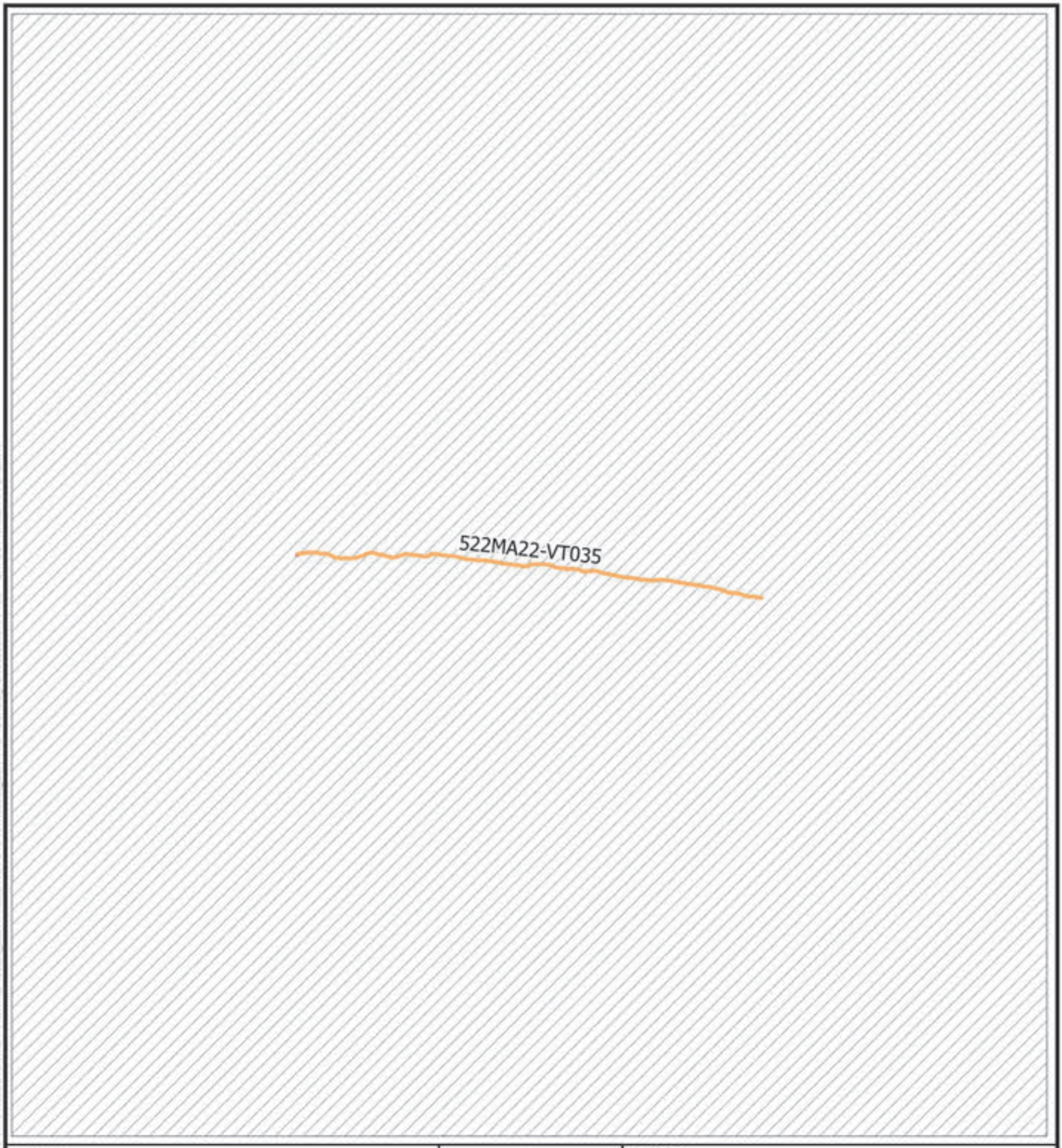
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT034

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

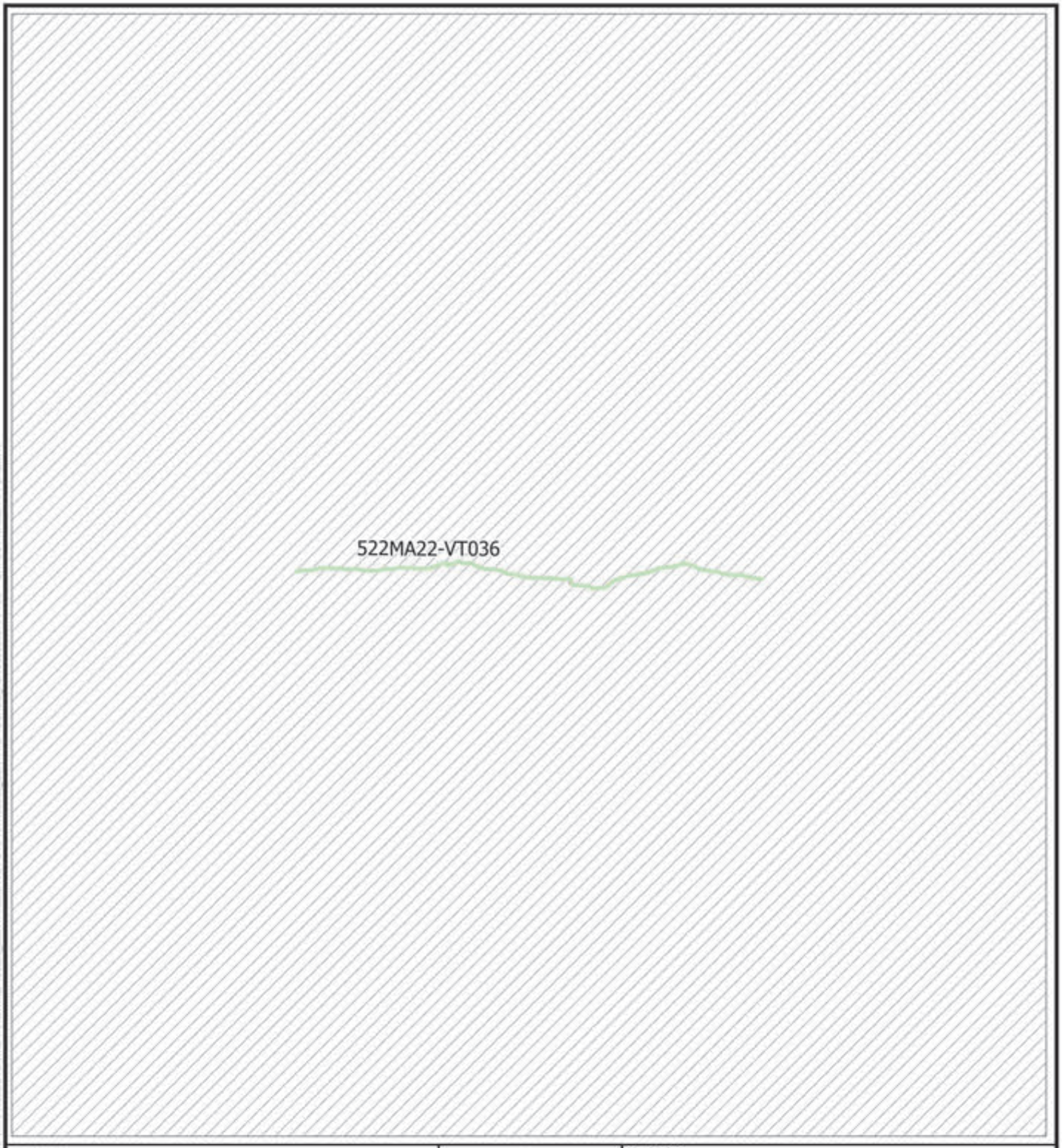
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT035

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

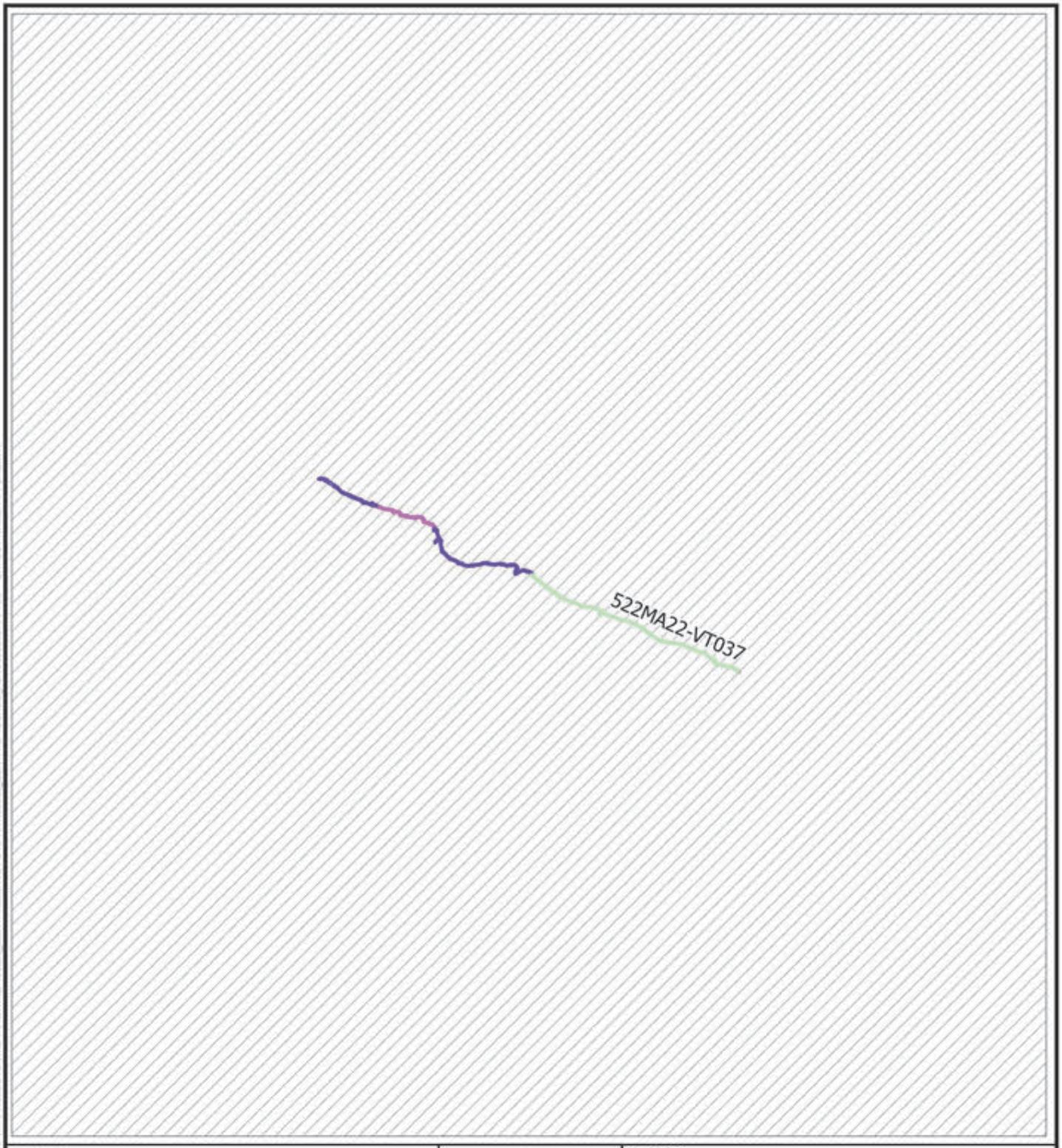
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT036

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

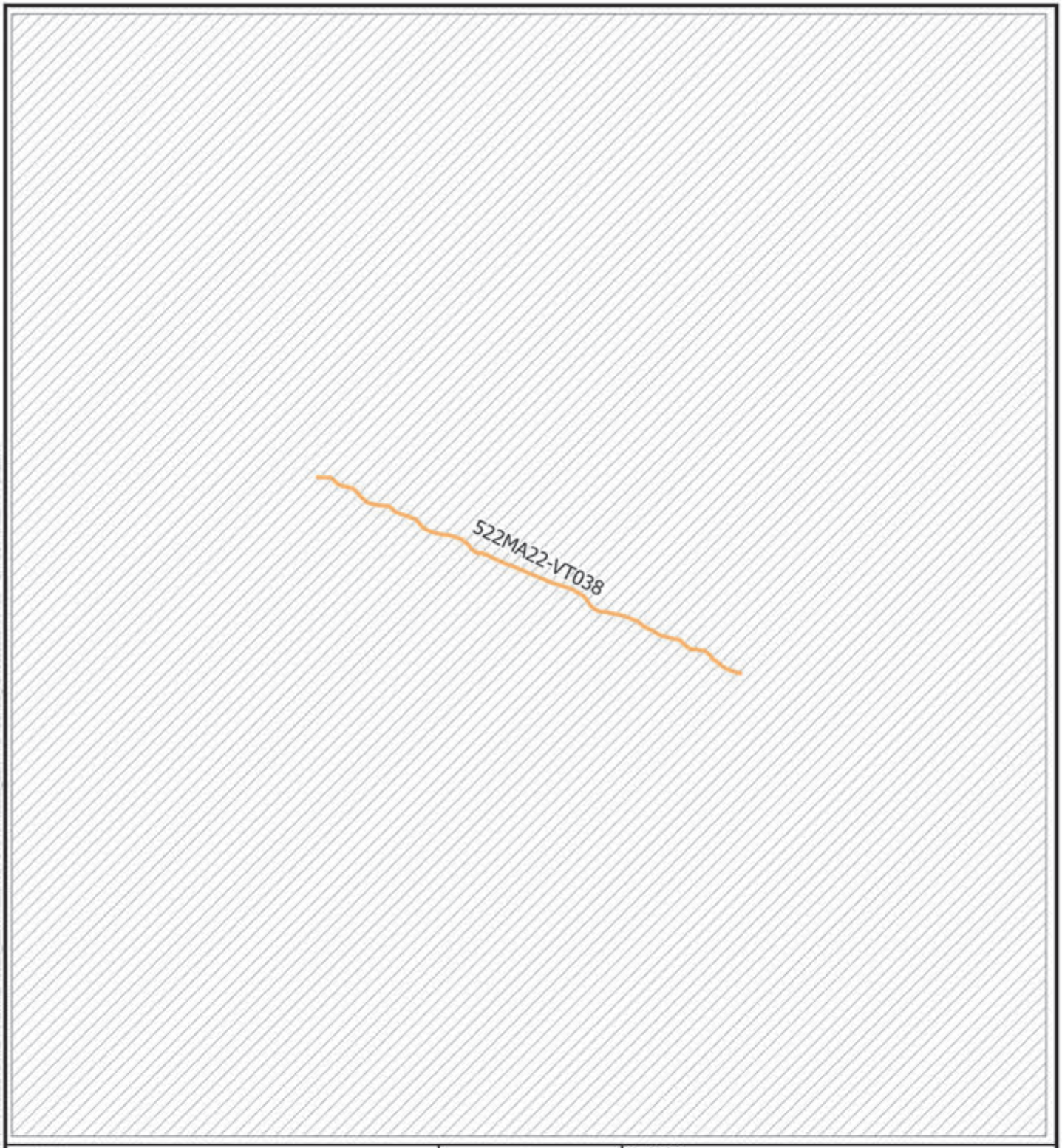
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT037

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:27:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

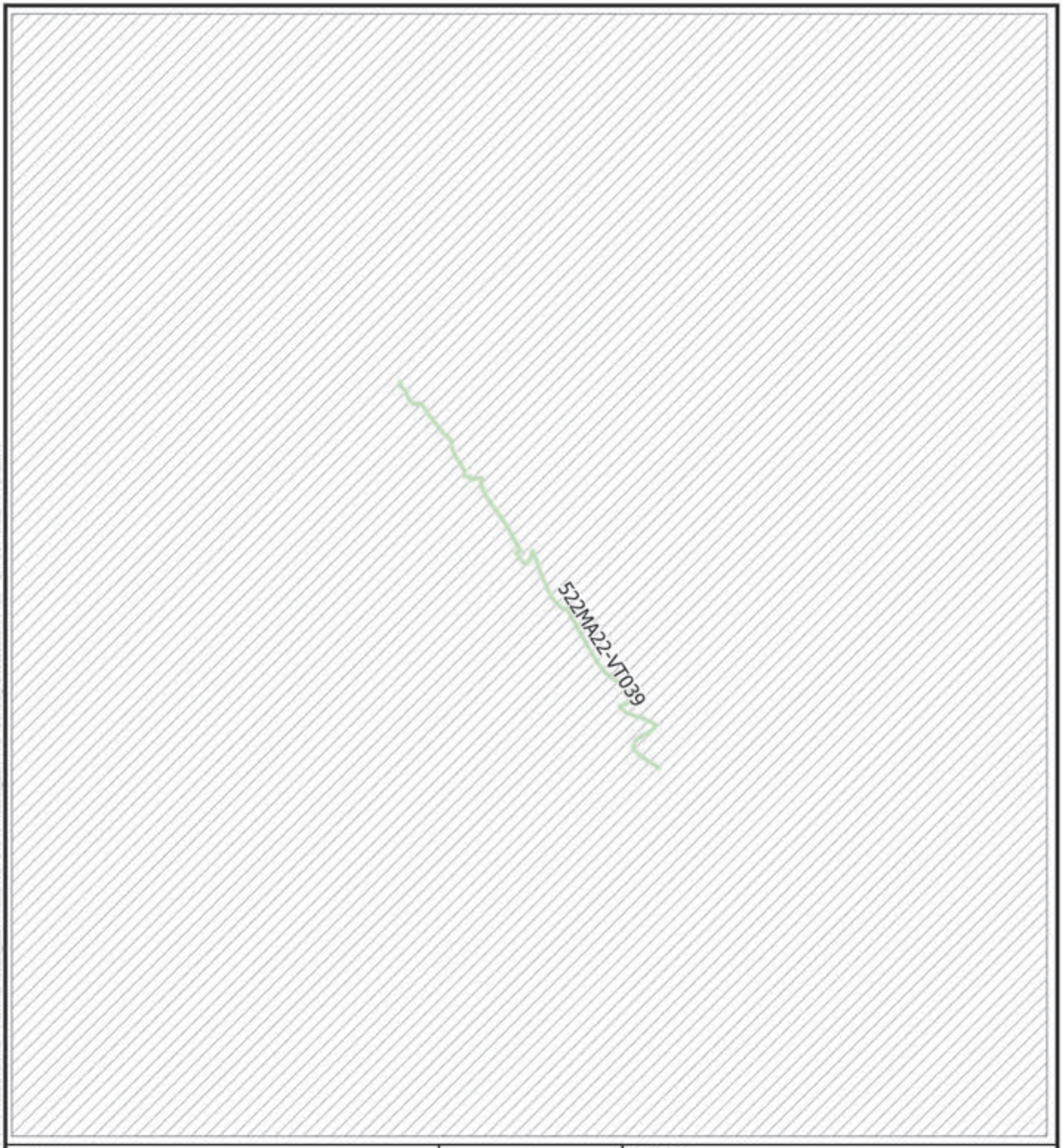
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT038

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

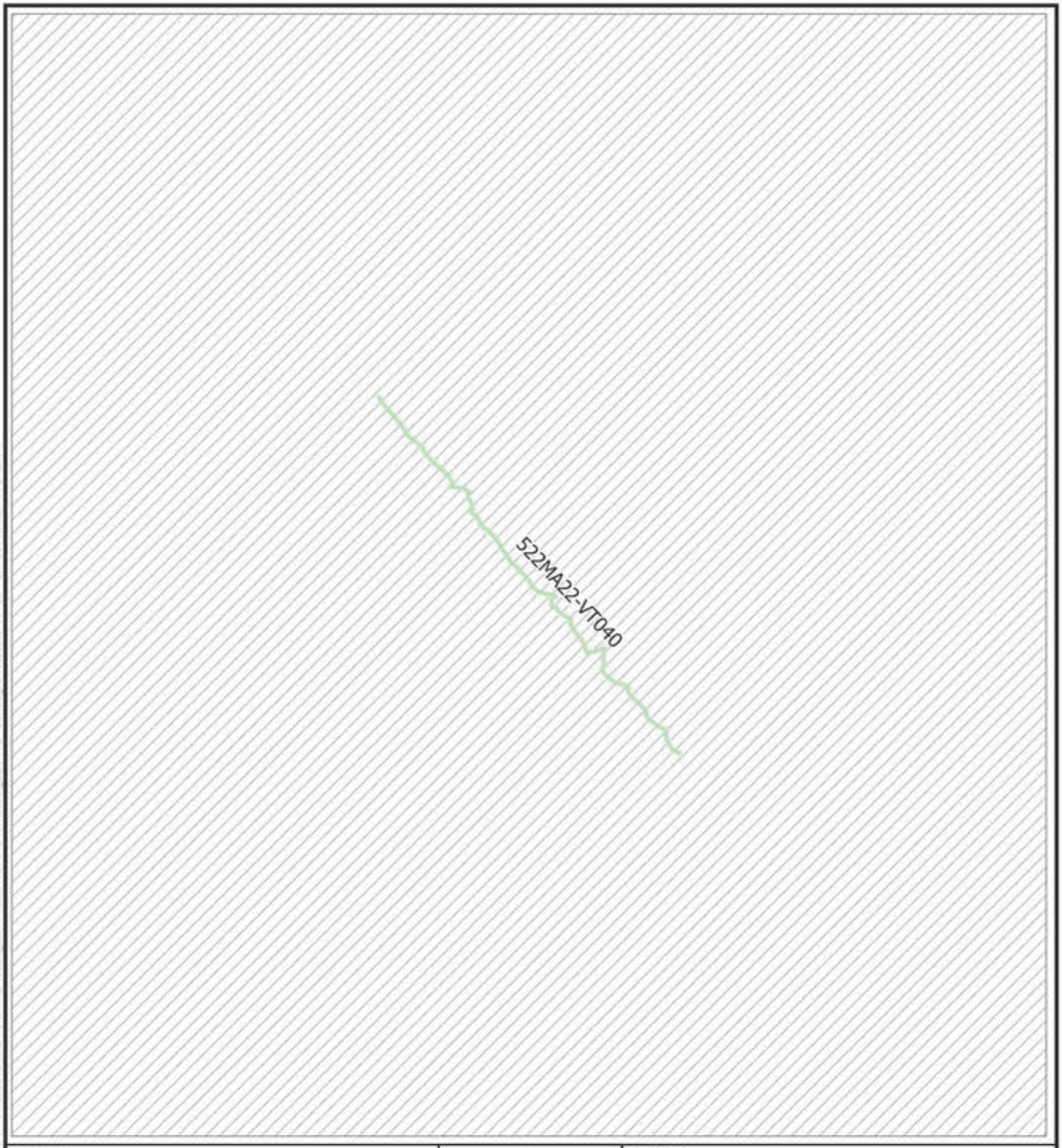
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT039

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

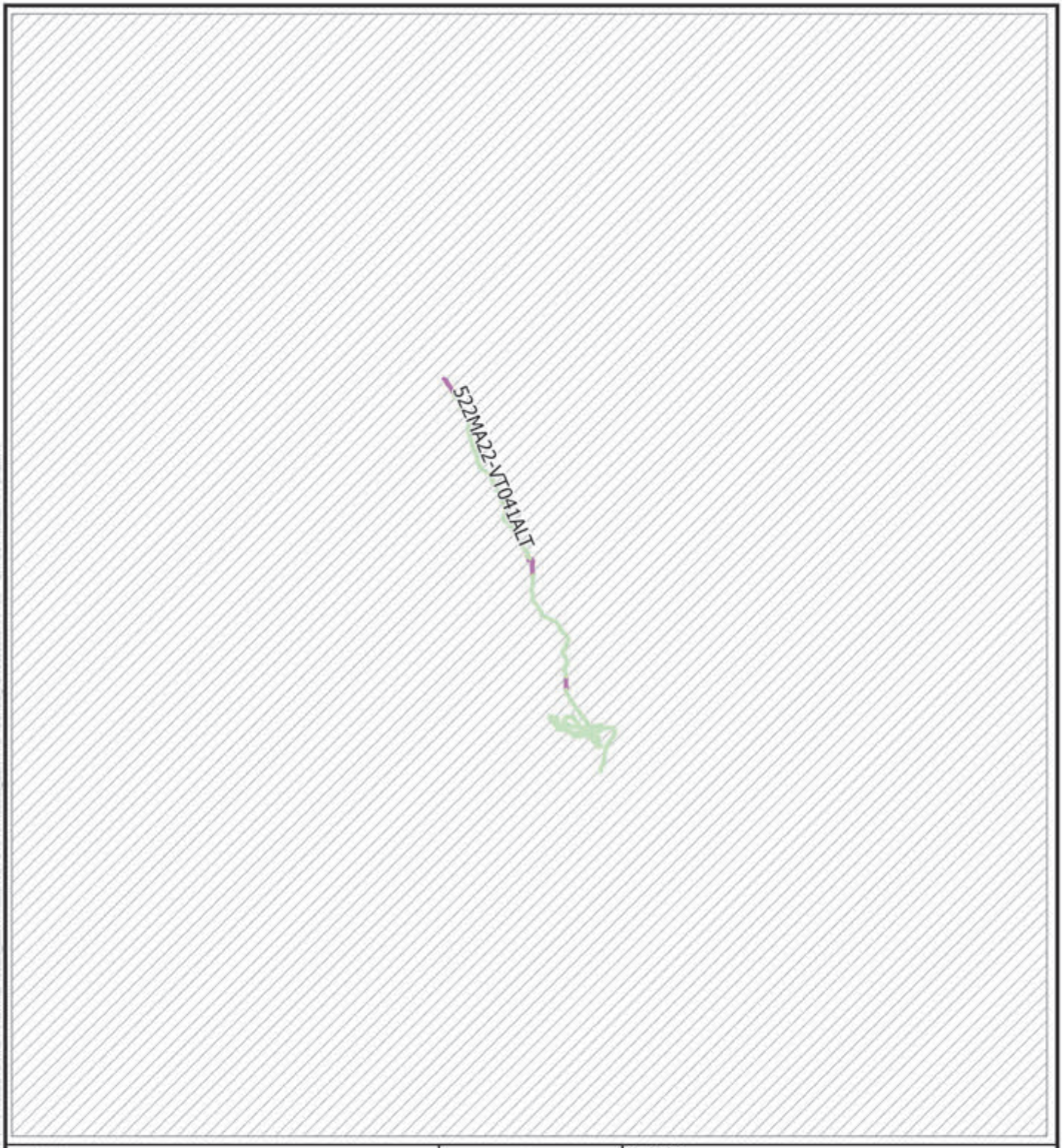
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT040	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYER\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

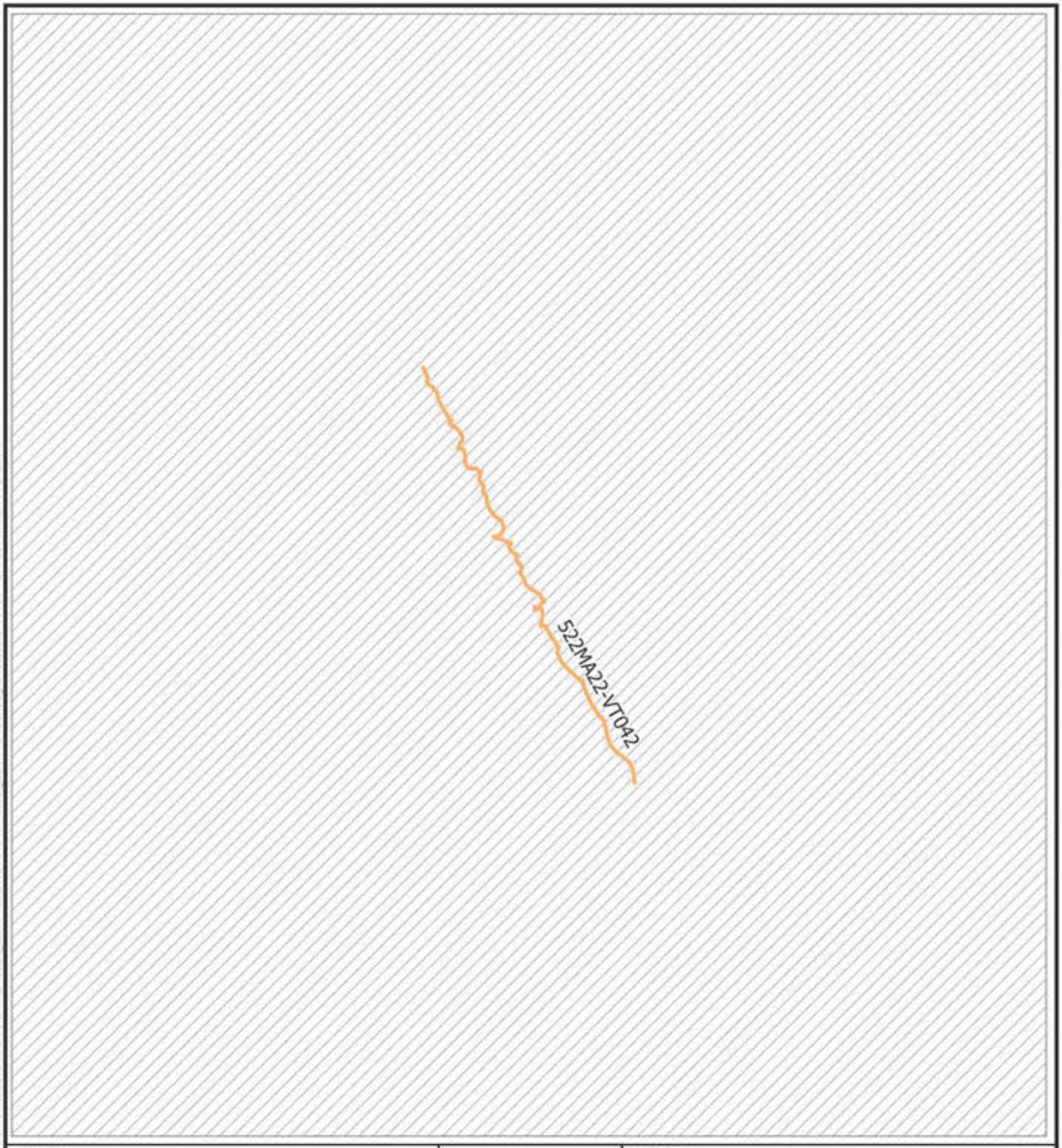
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

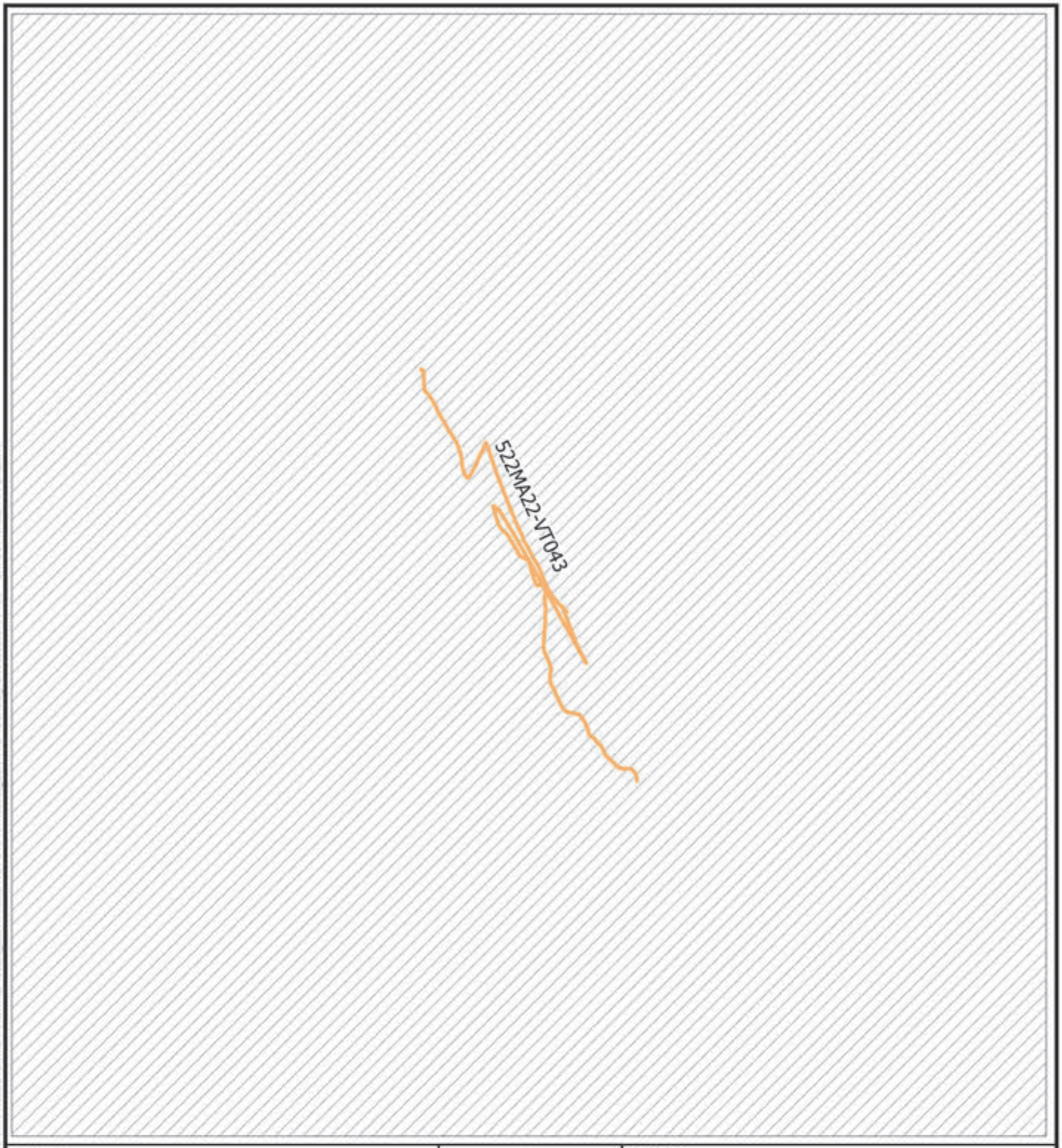
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT042

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

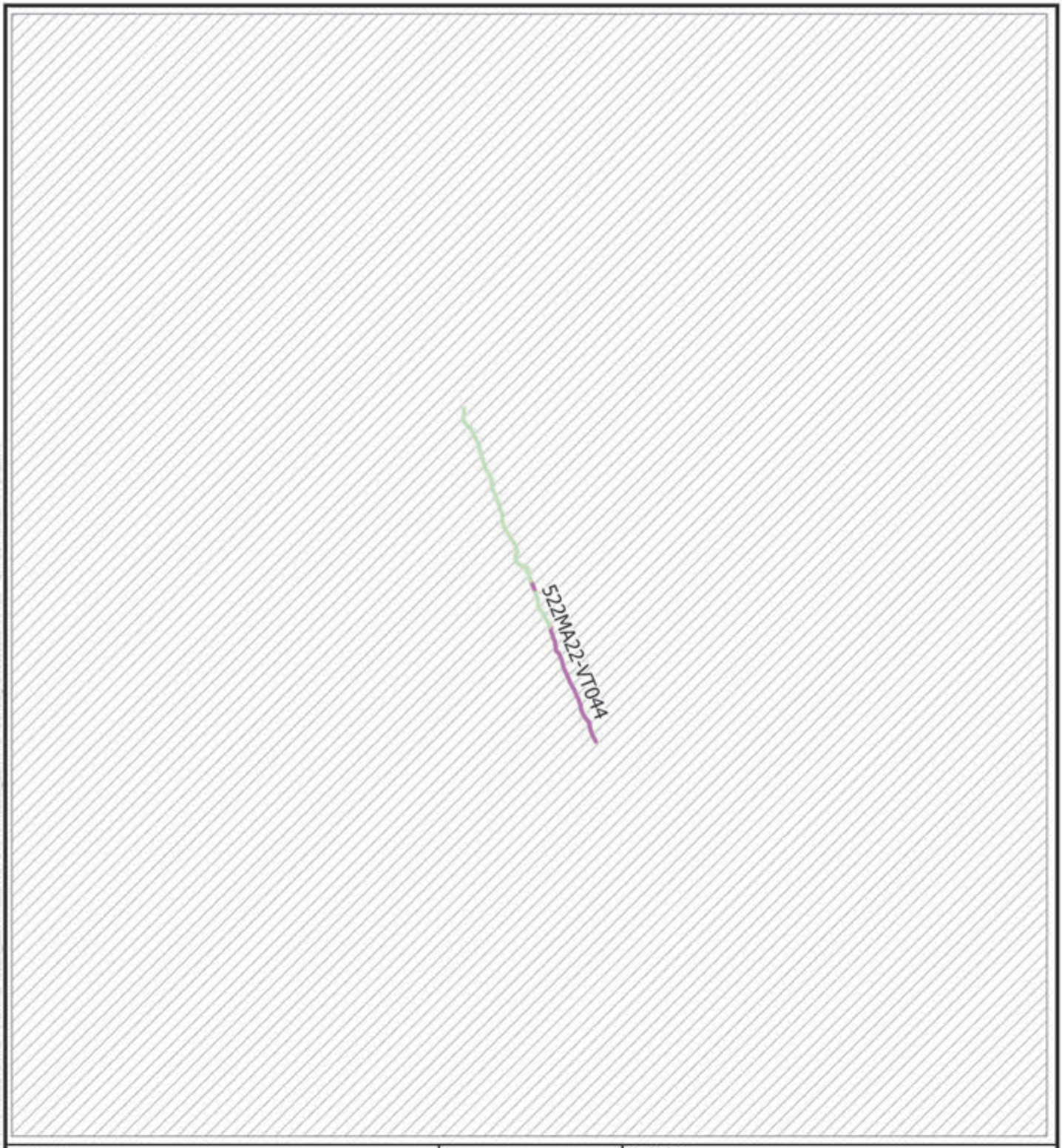
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT043

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_O\BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

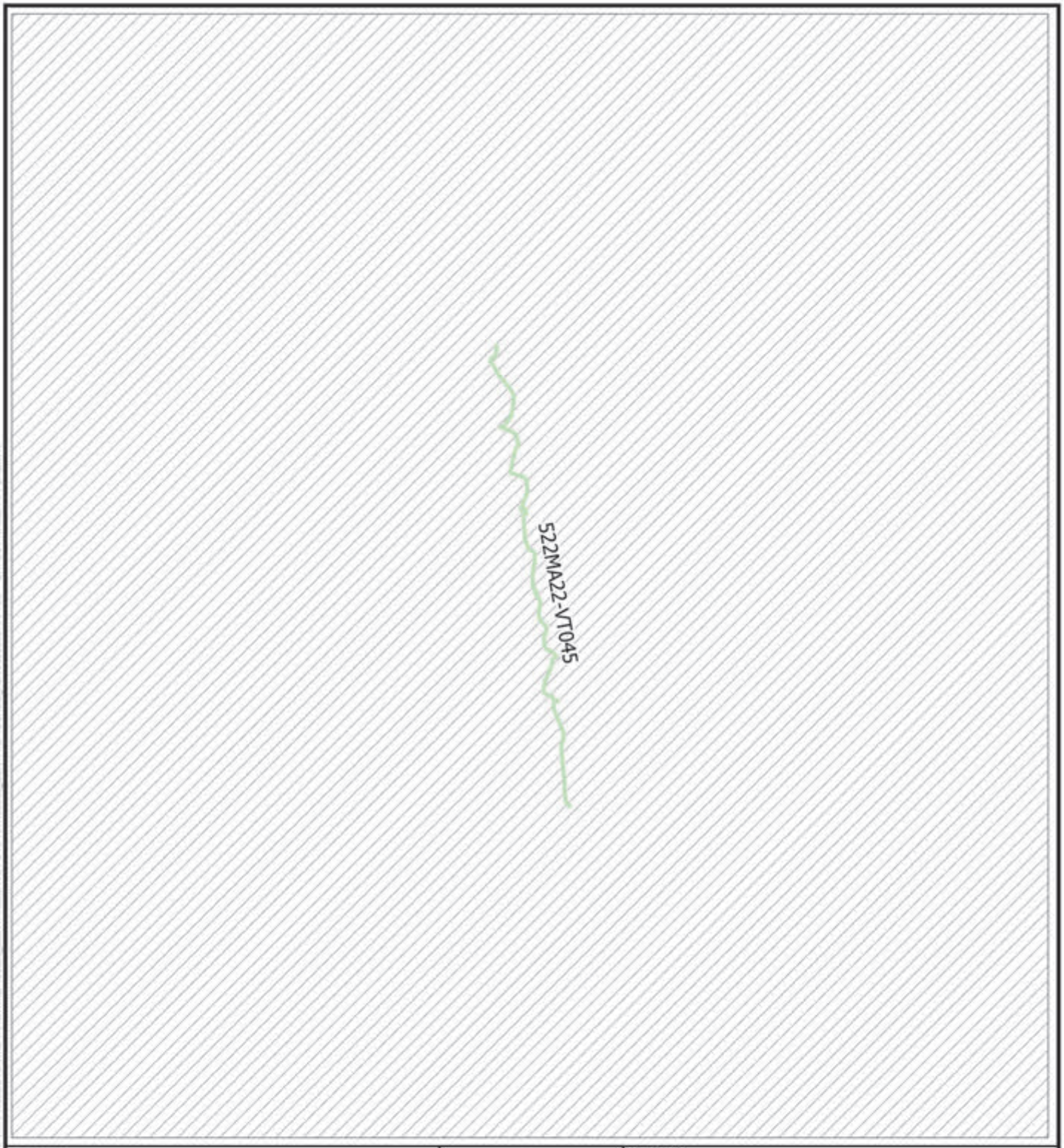
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT044	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAREACHANNEL_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: LARGE8X11



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

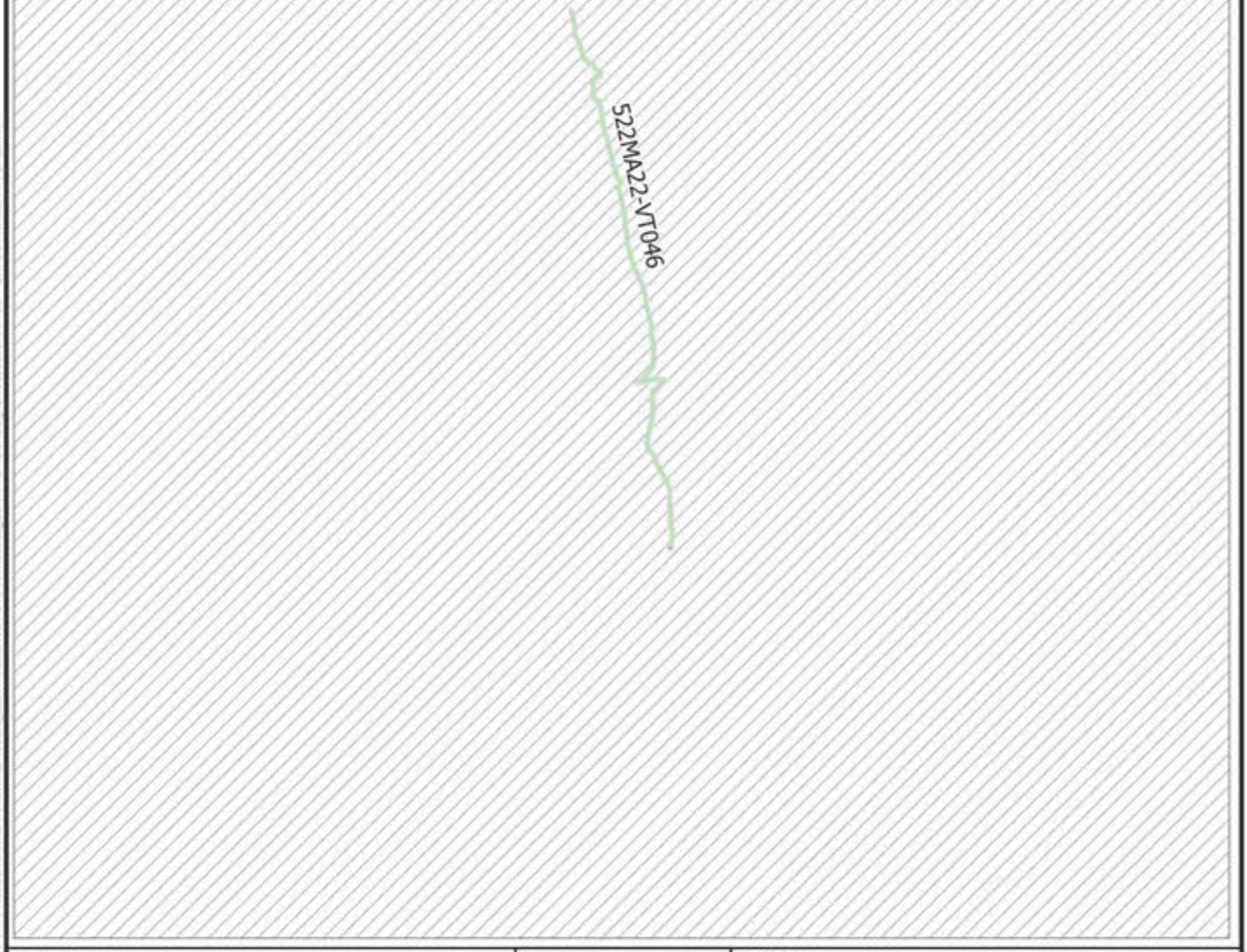
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT045	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

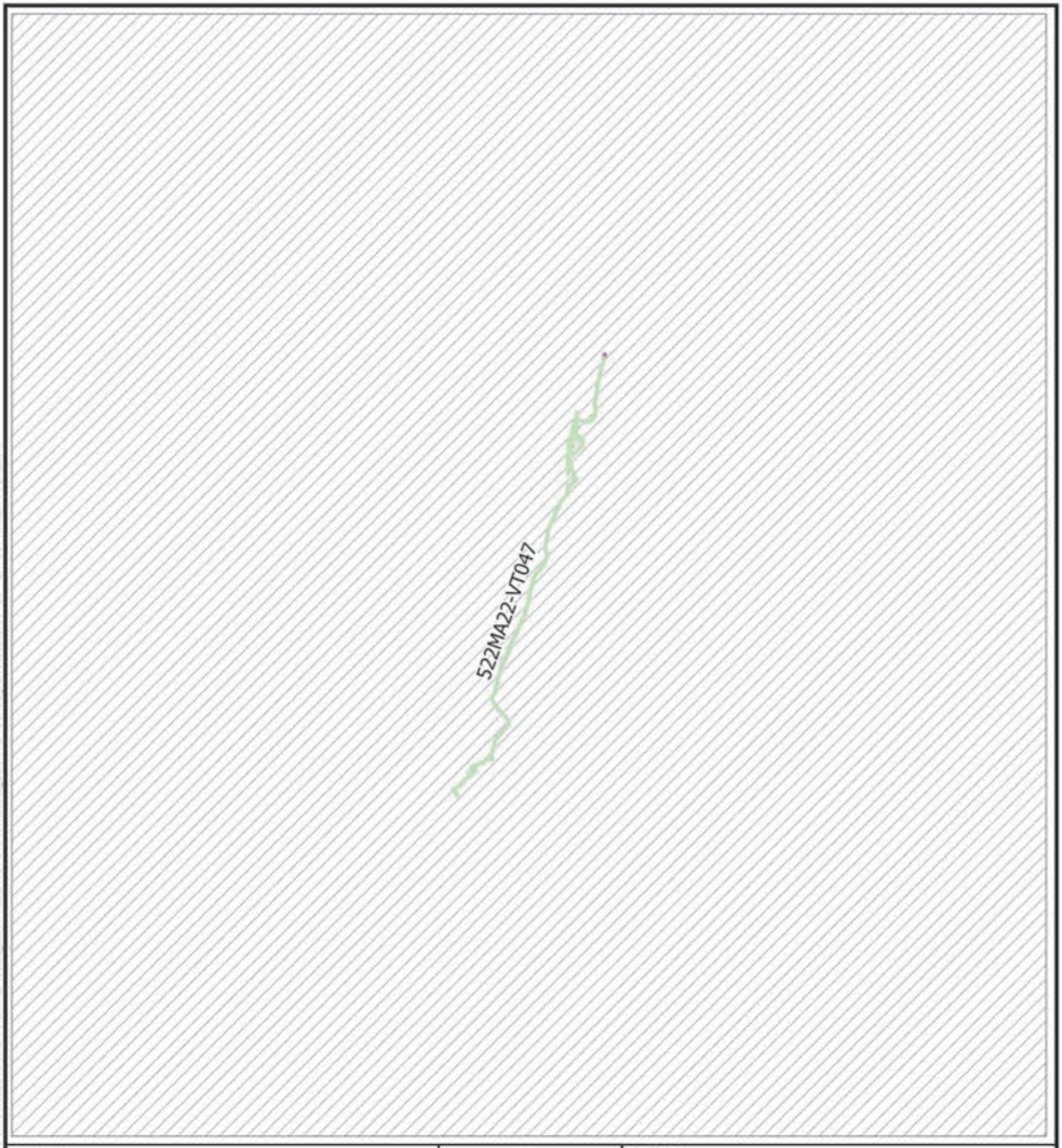
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT046

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

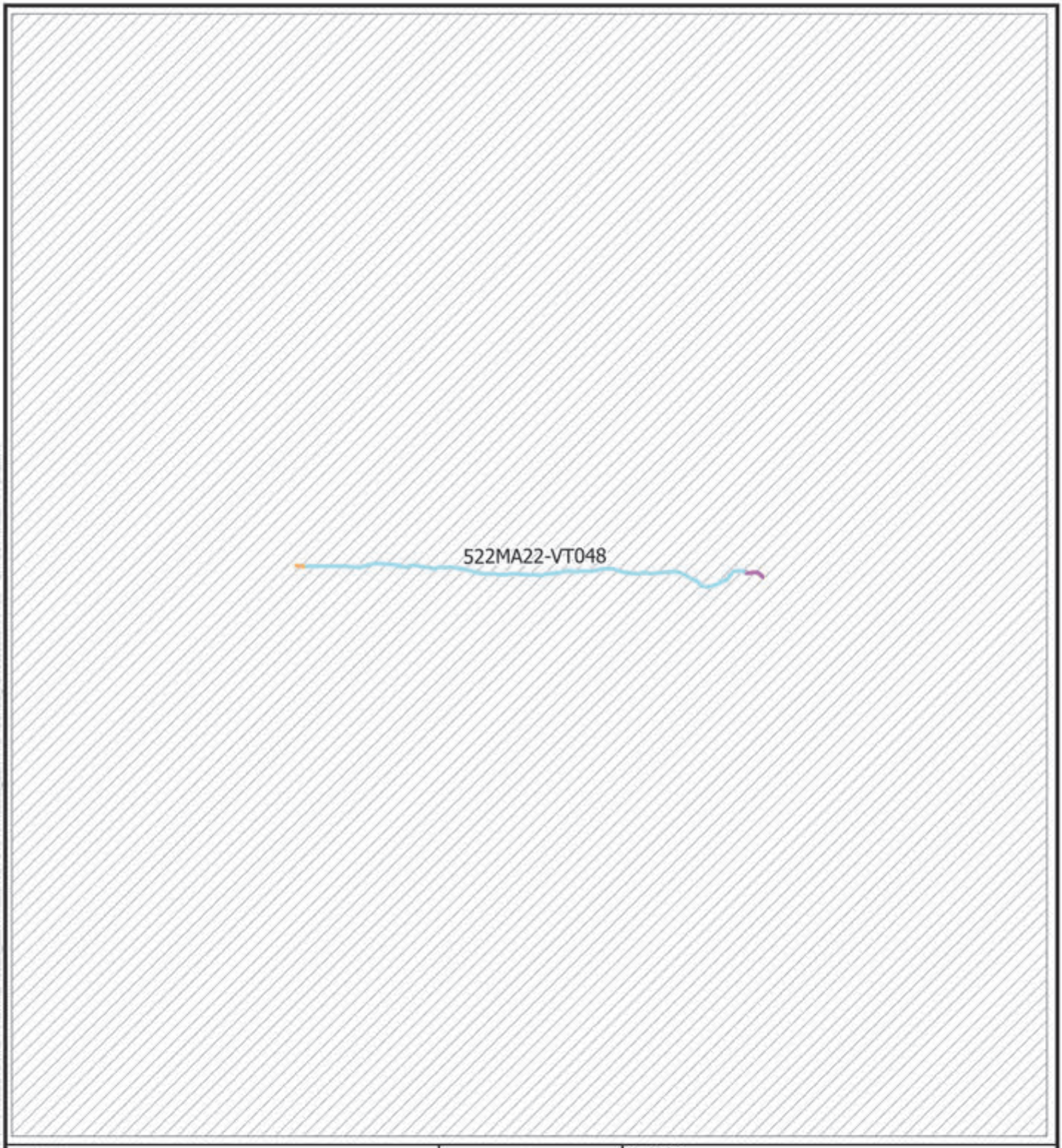
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT047

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

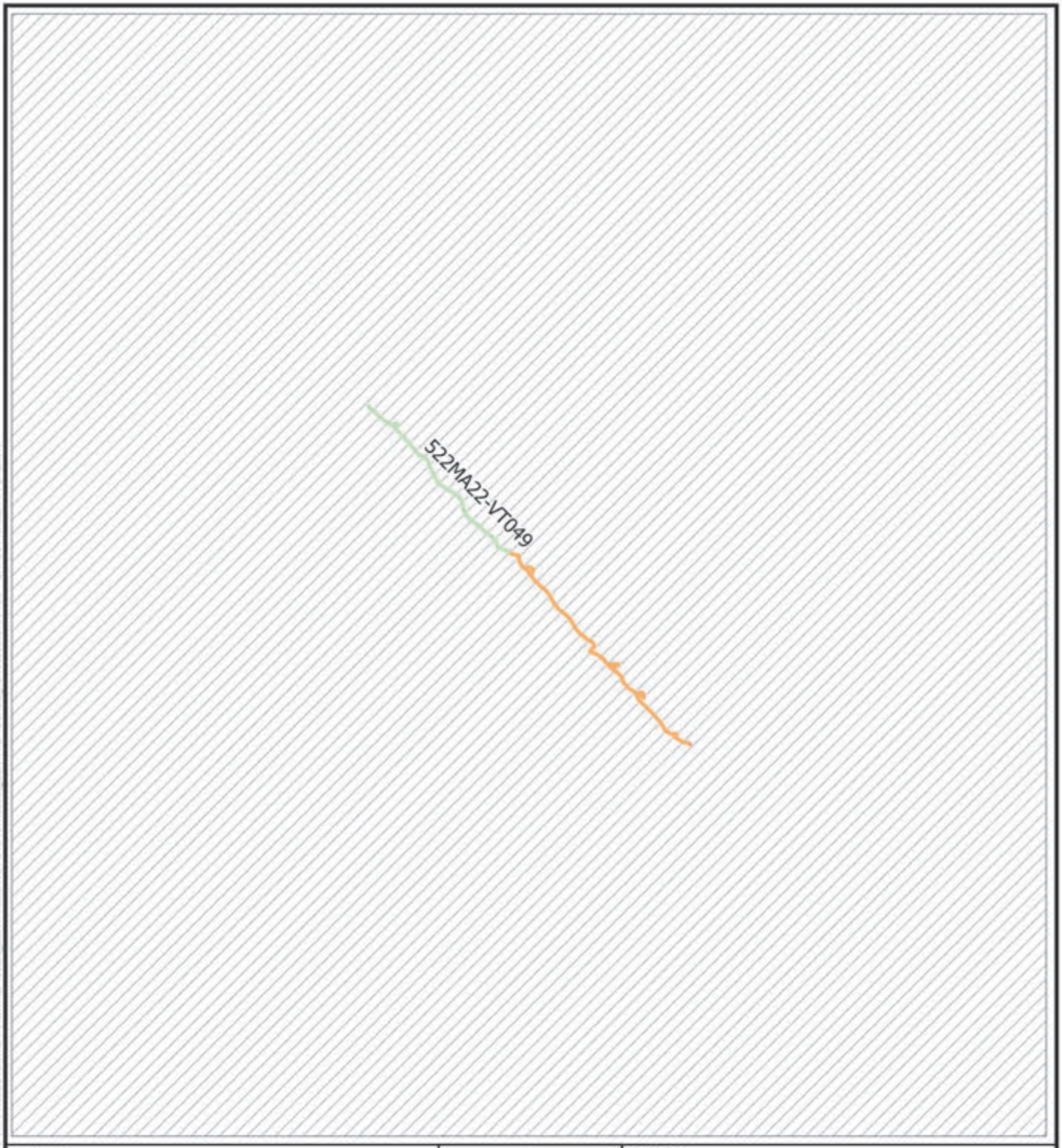
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT048

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCGIS\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

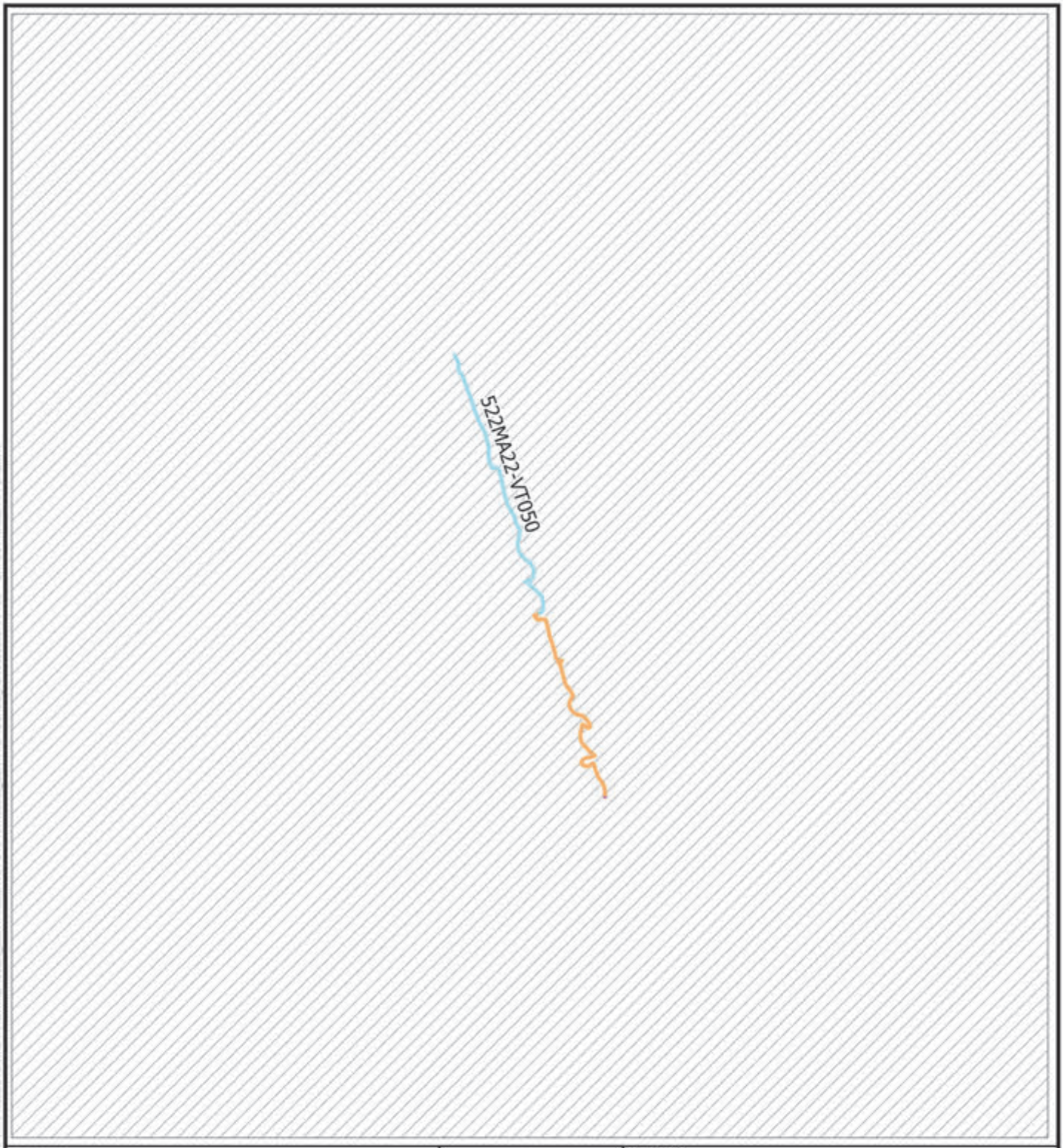
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT049	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT050

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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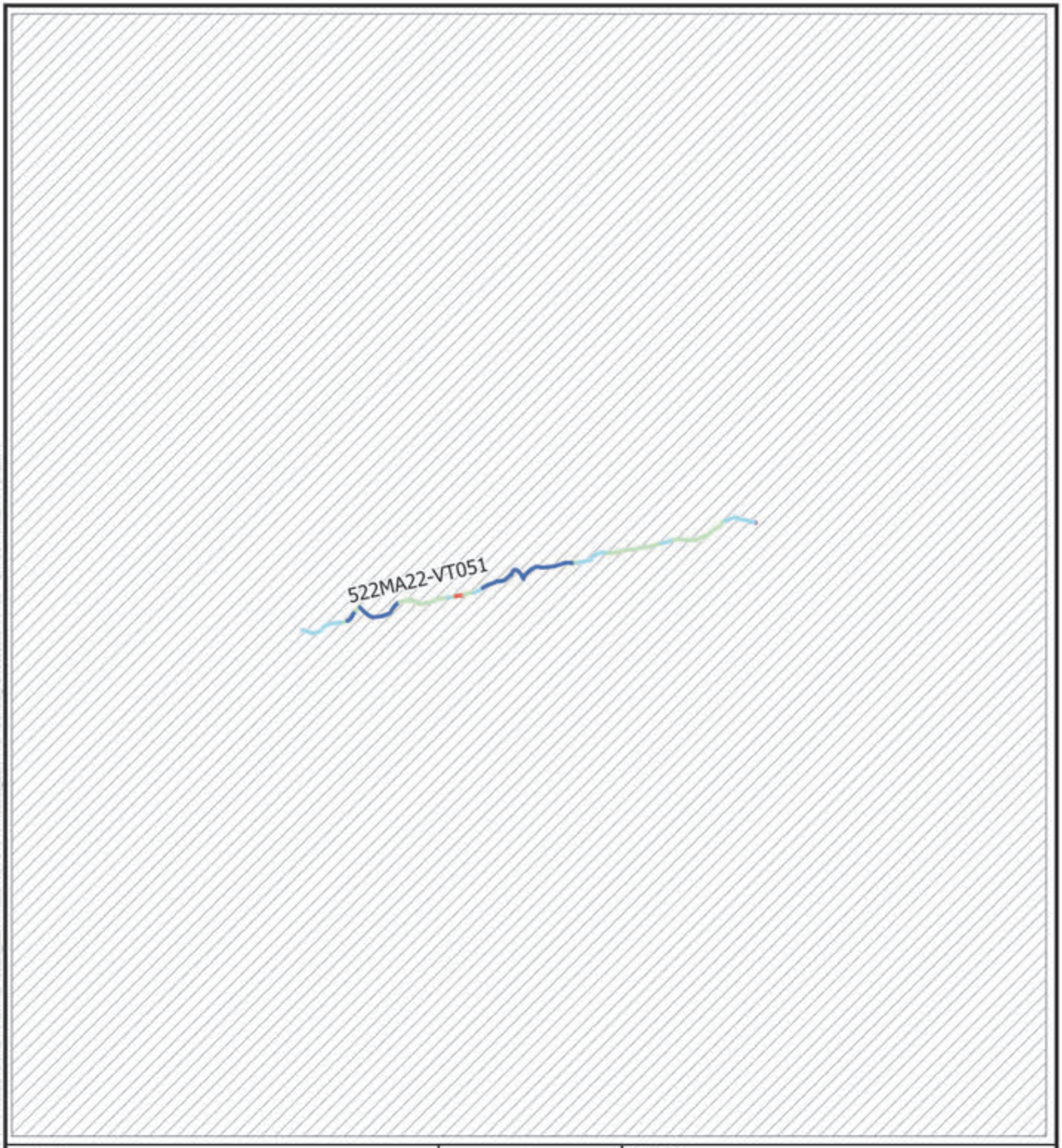


MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

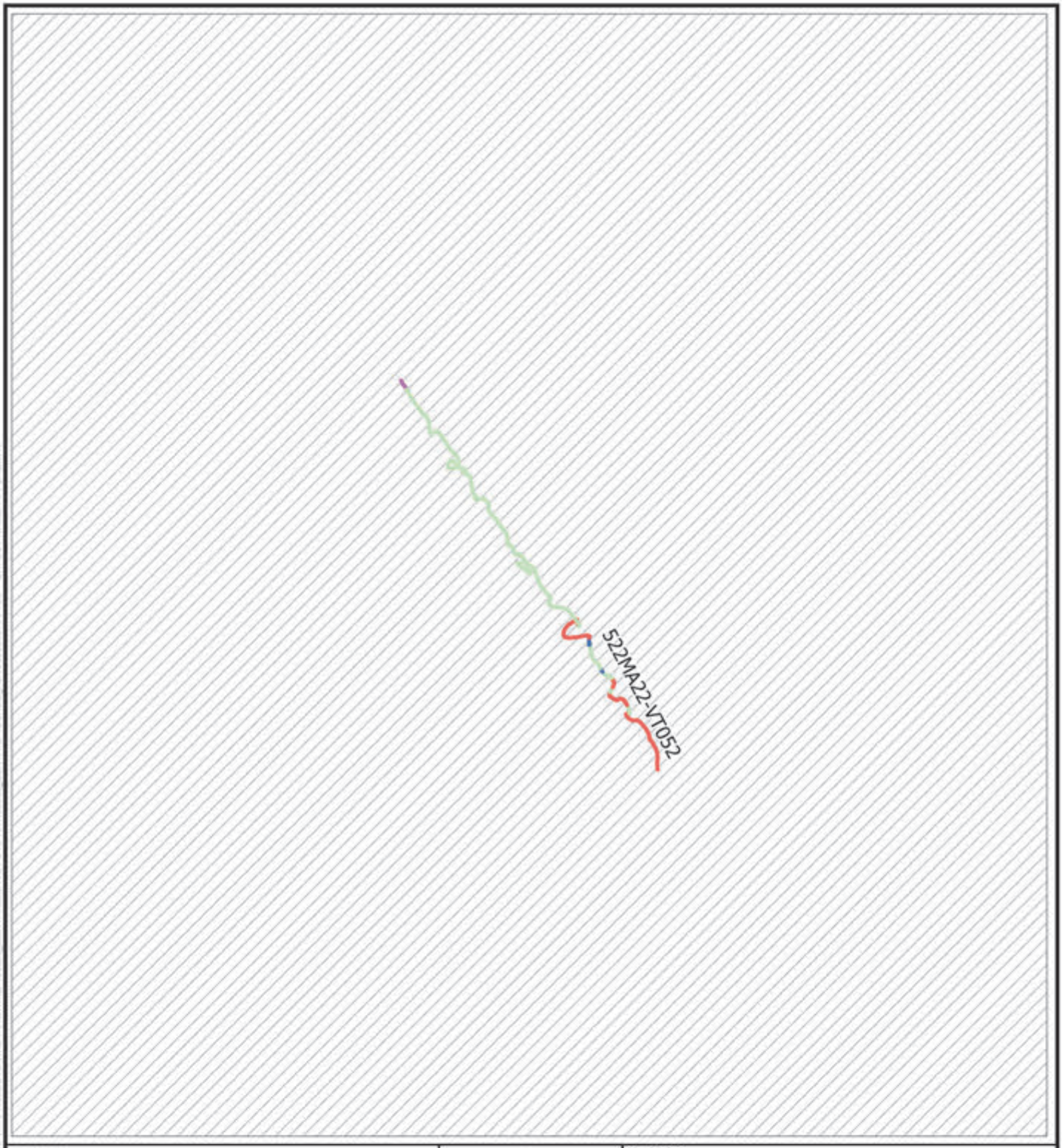
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT051

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

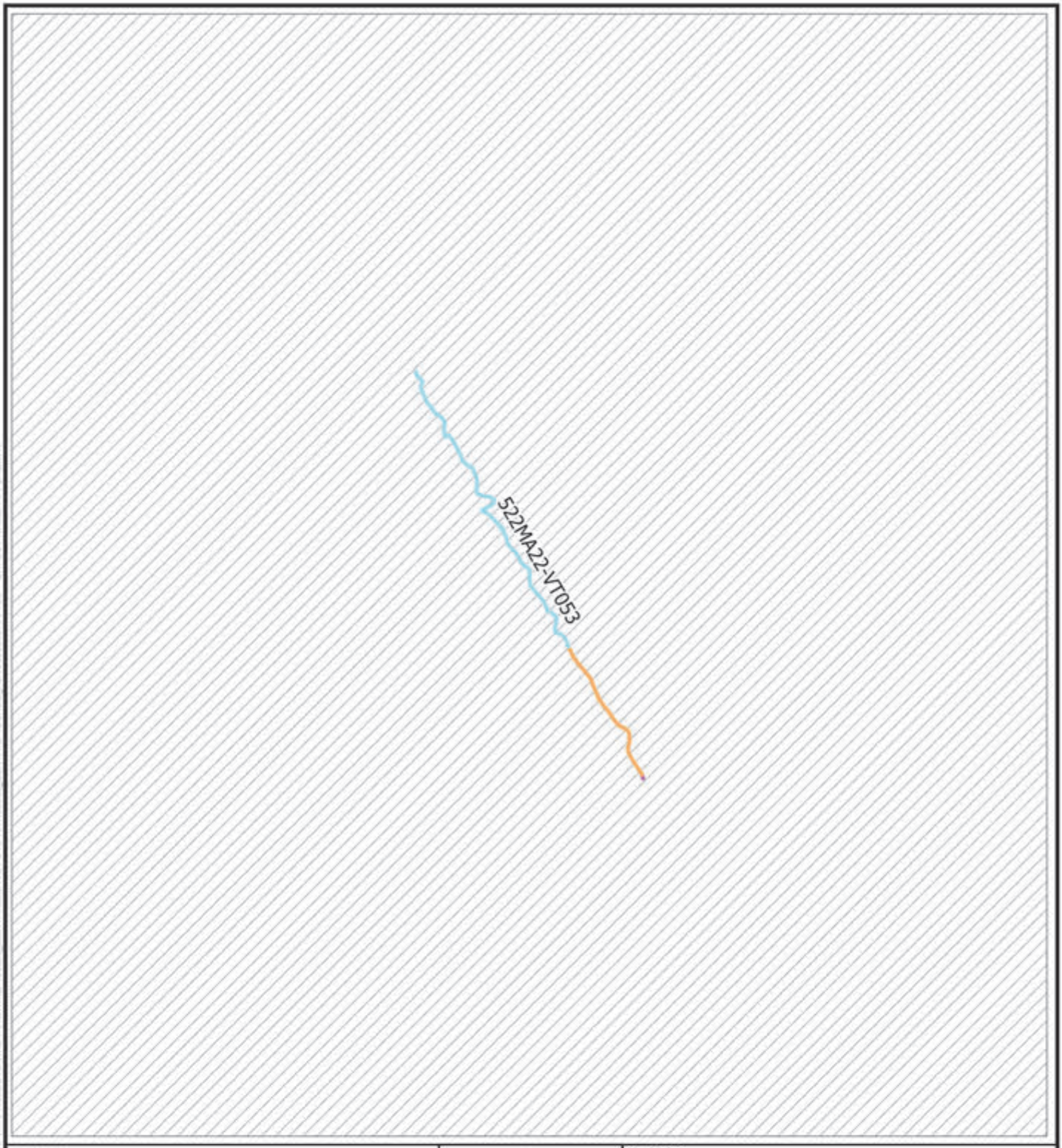
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT052

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

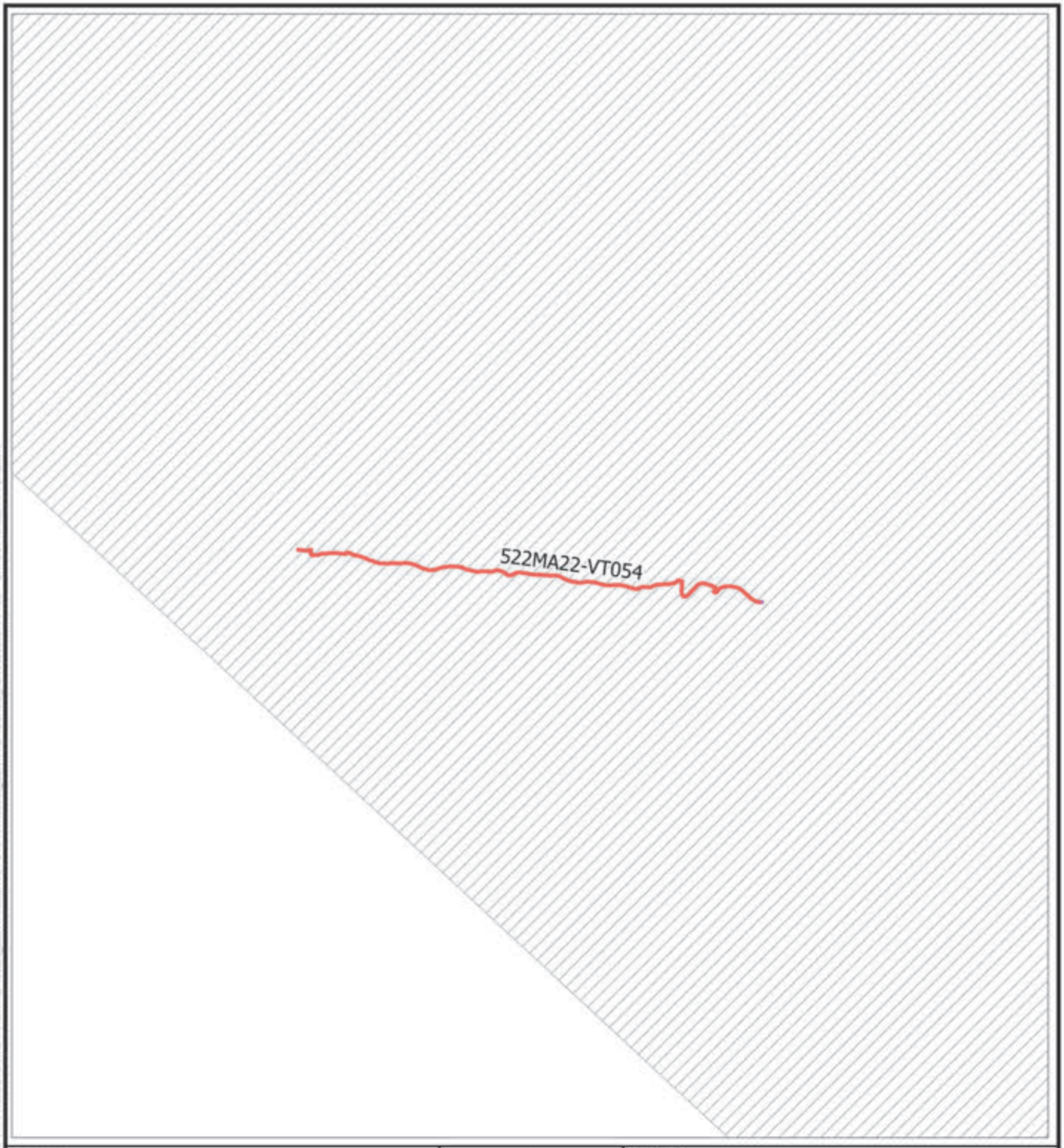
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT053

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel Mixes
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

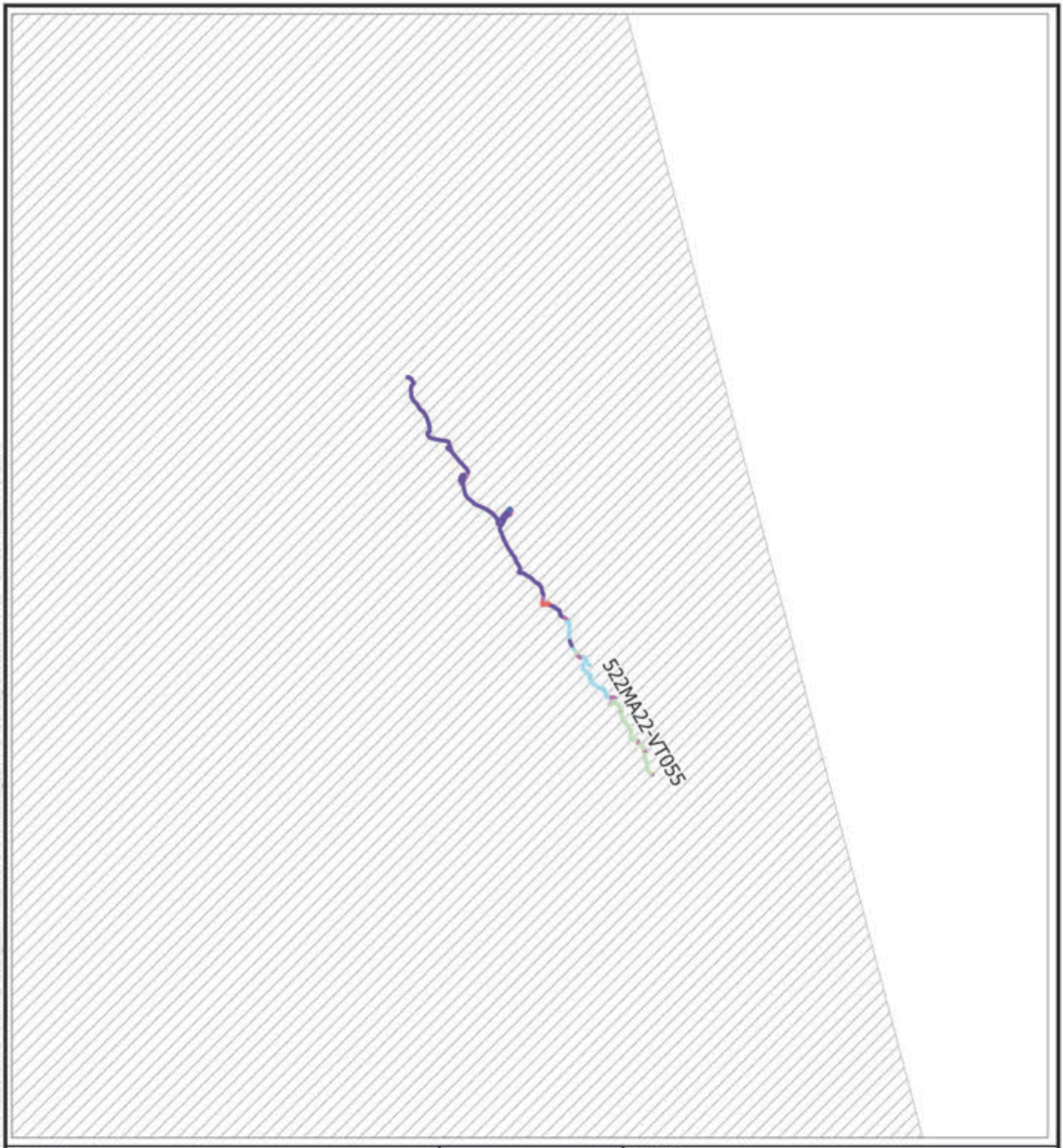
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT054	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sandy Mud
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

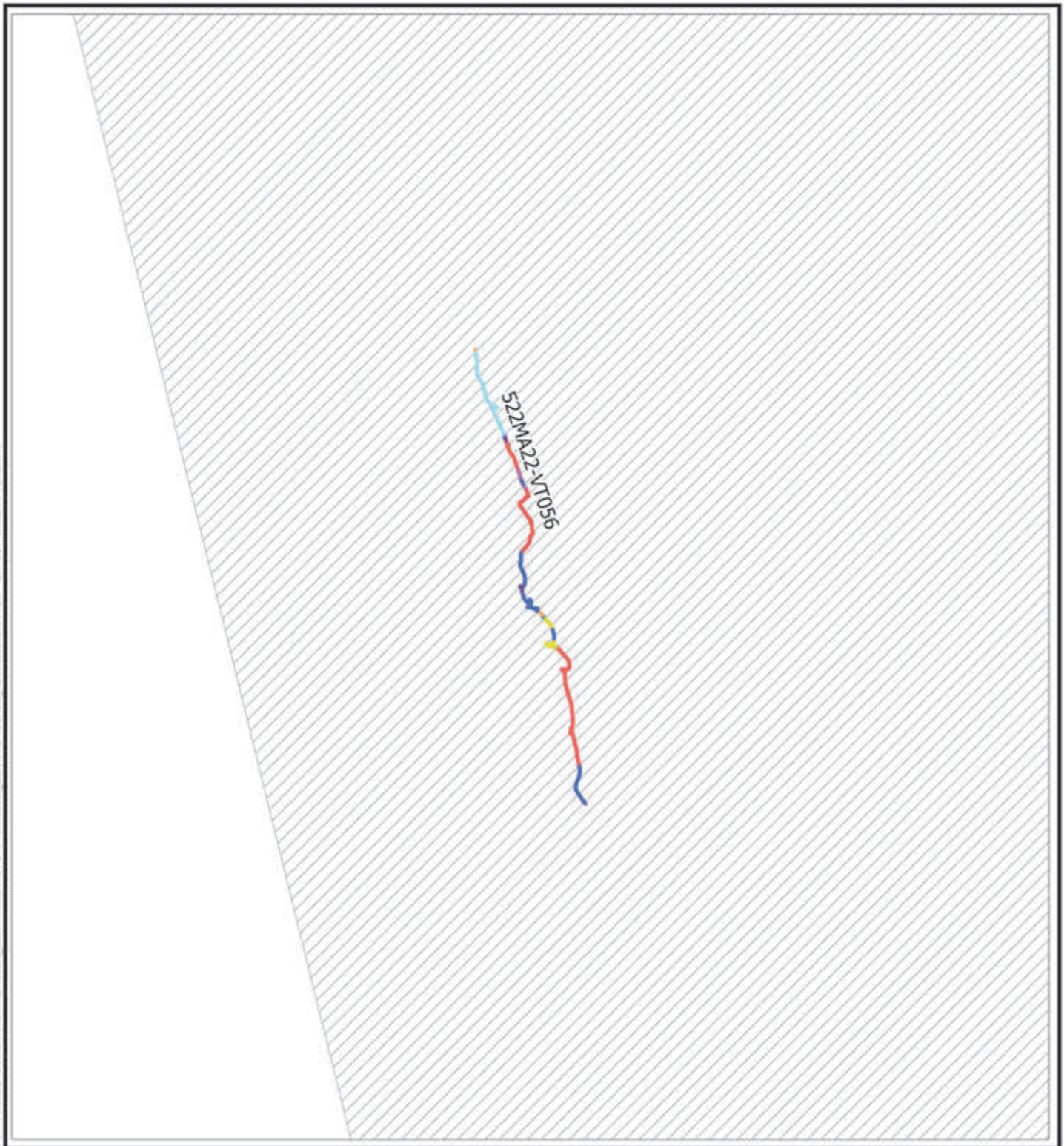
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT055

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAYERS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

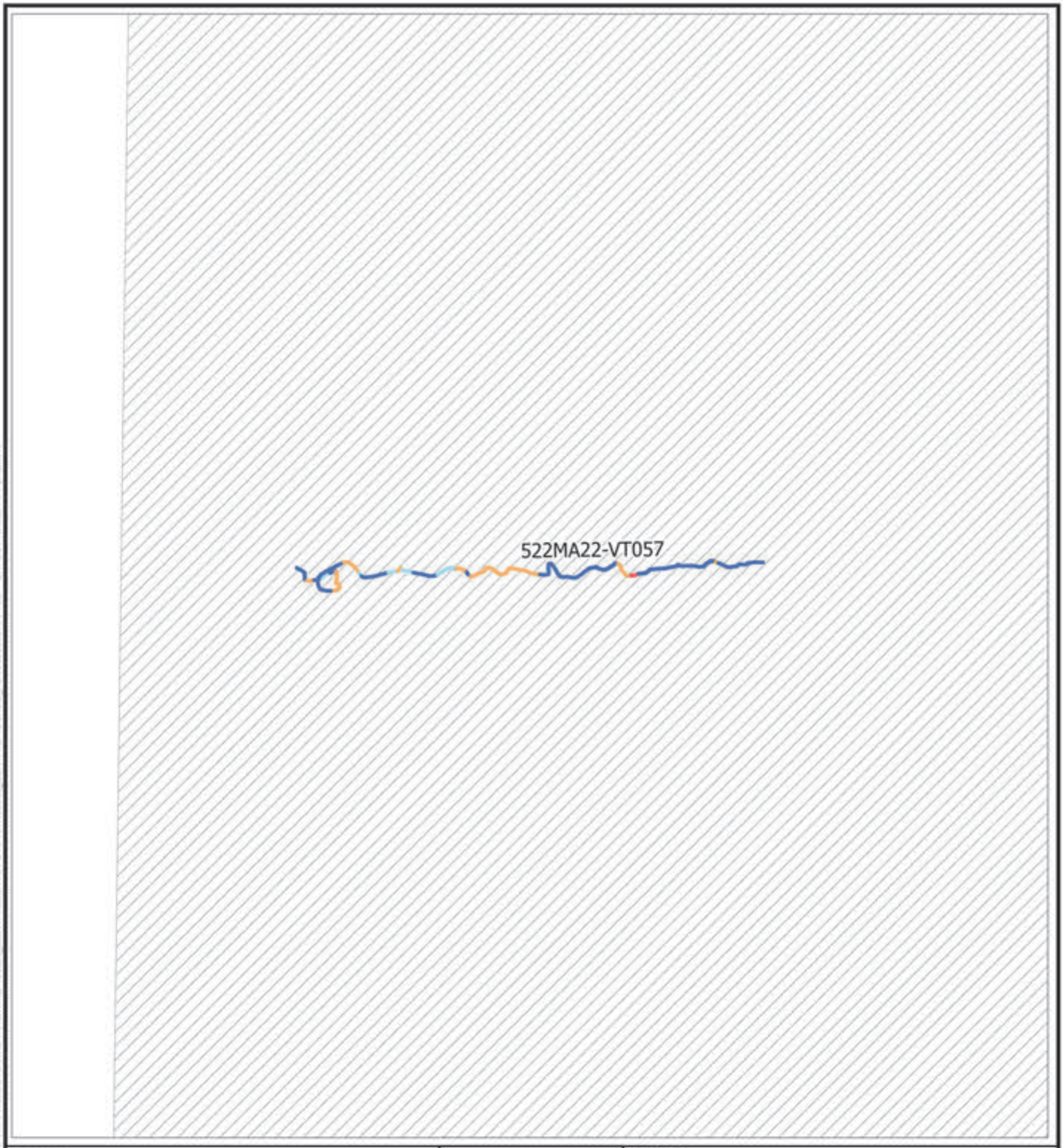
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT056

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

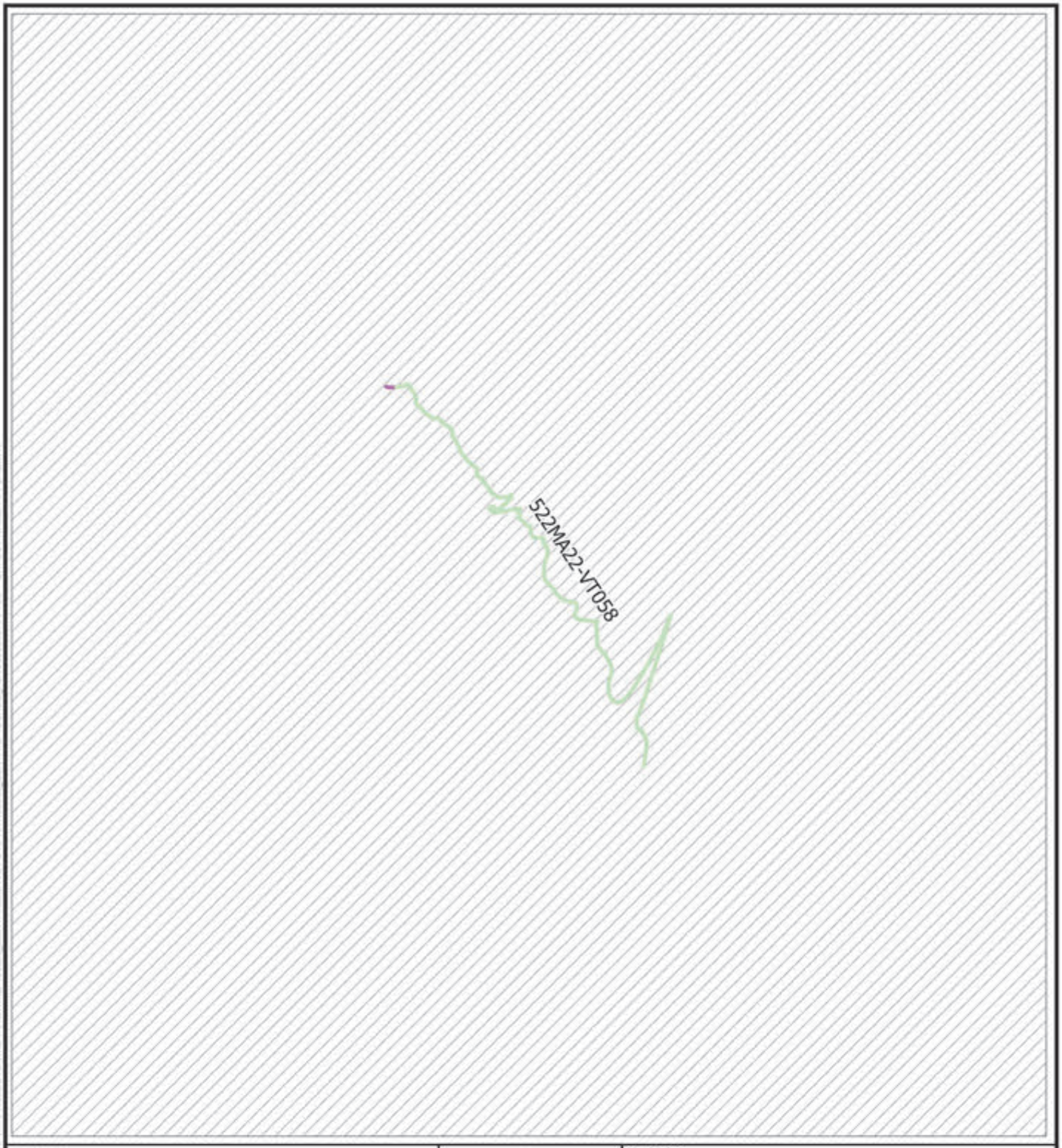
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT057

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

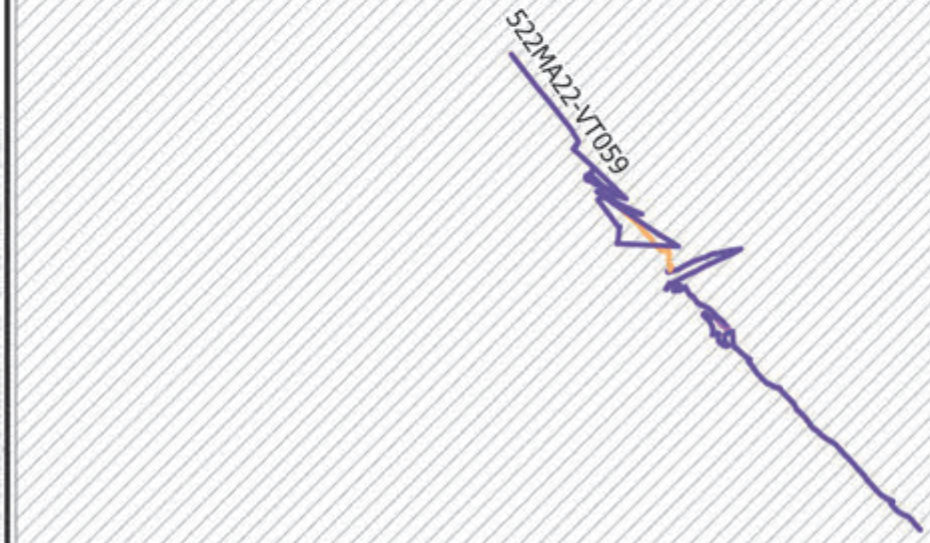
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT058

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Sand
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

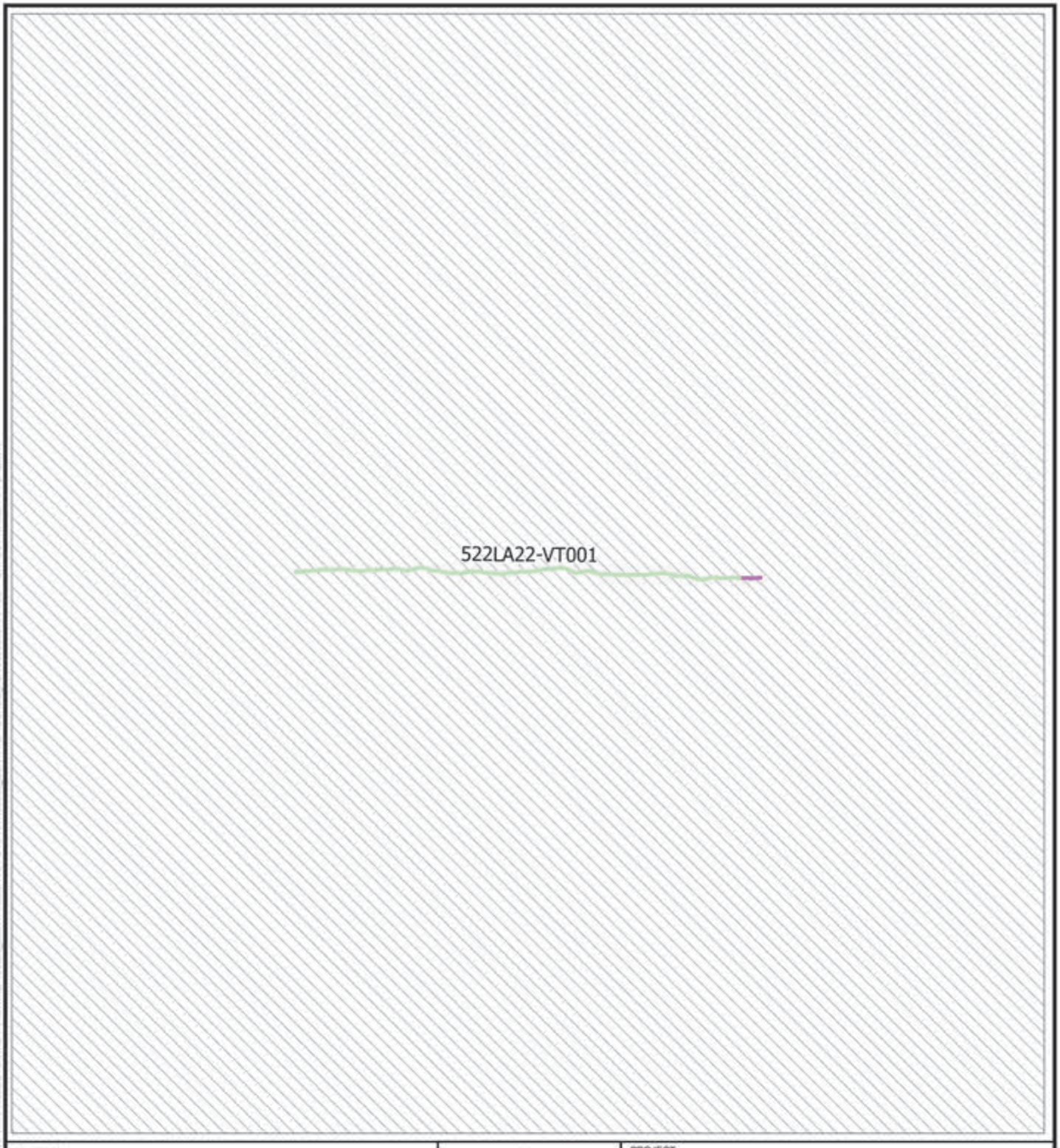
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT059

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:27:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area

Muddy Sand

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

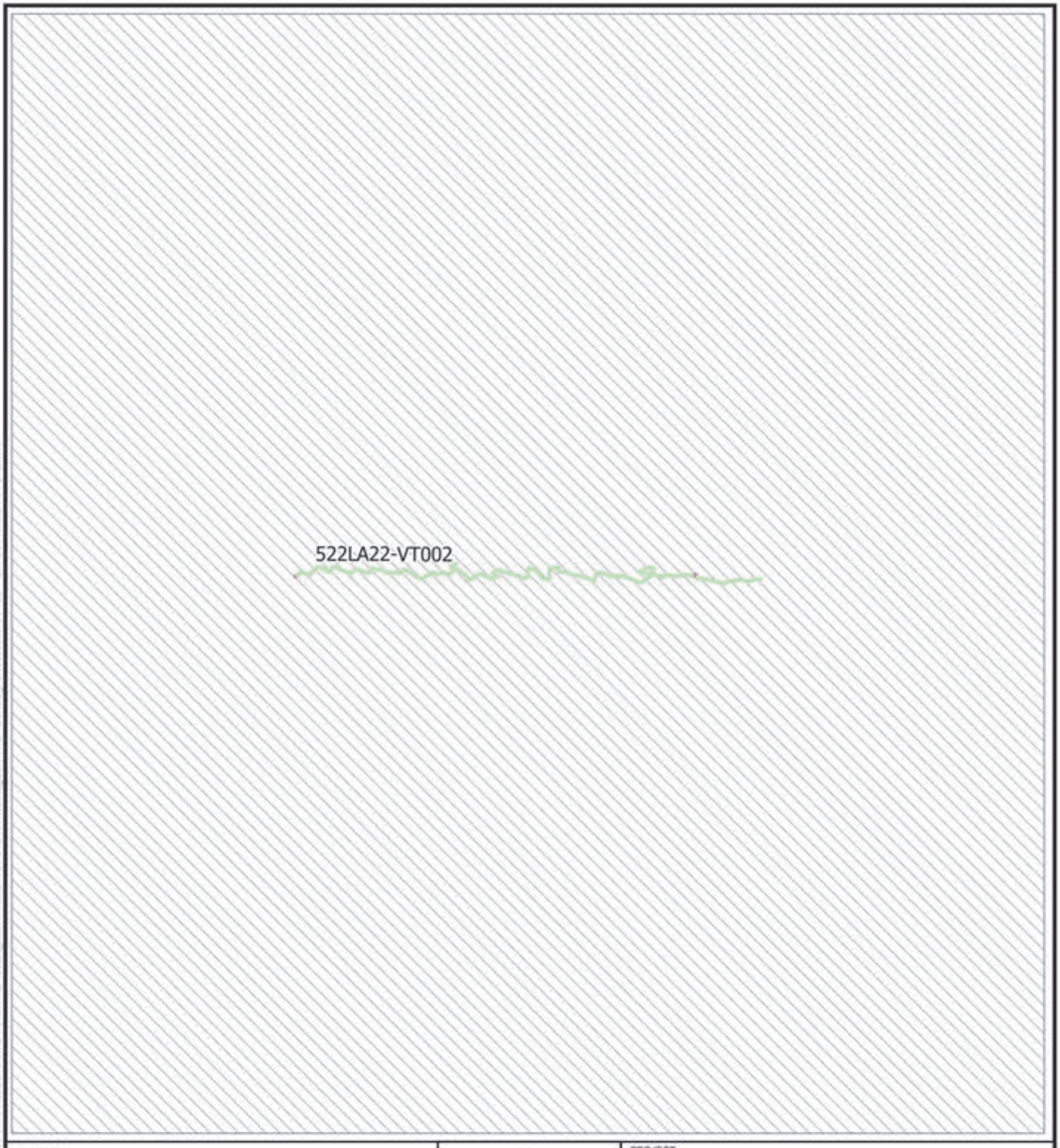
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: JDEHAINAUT ON 4/13/2023, 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area

Muddy Sand

Uncharacterized - Visibility Compromised

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

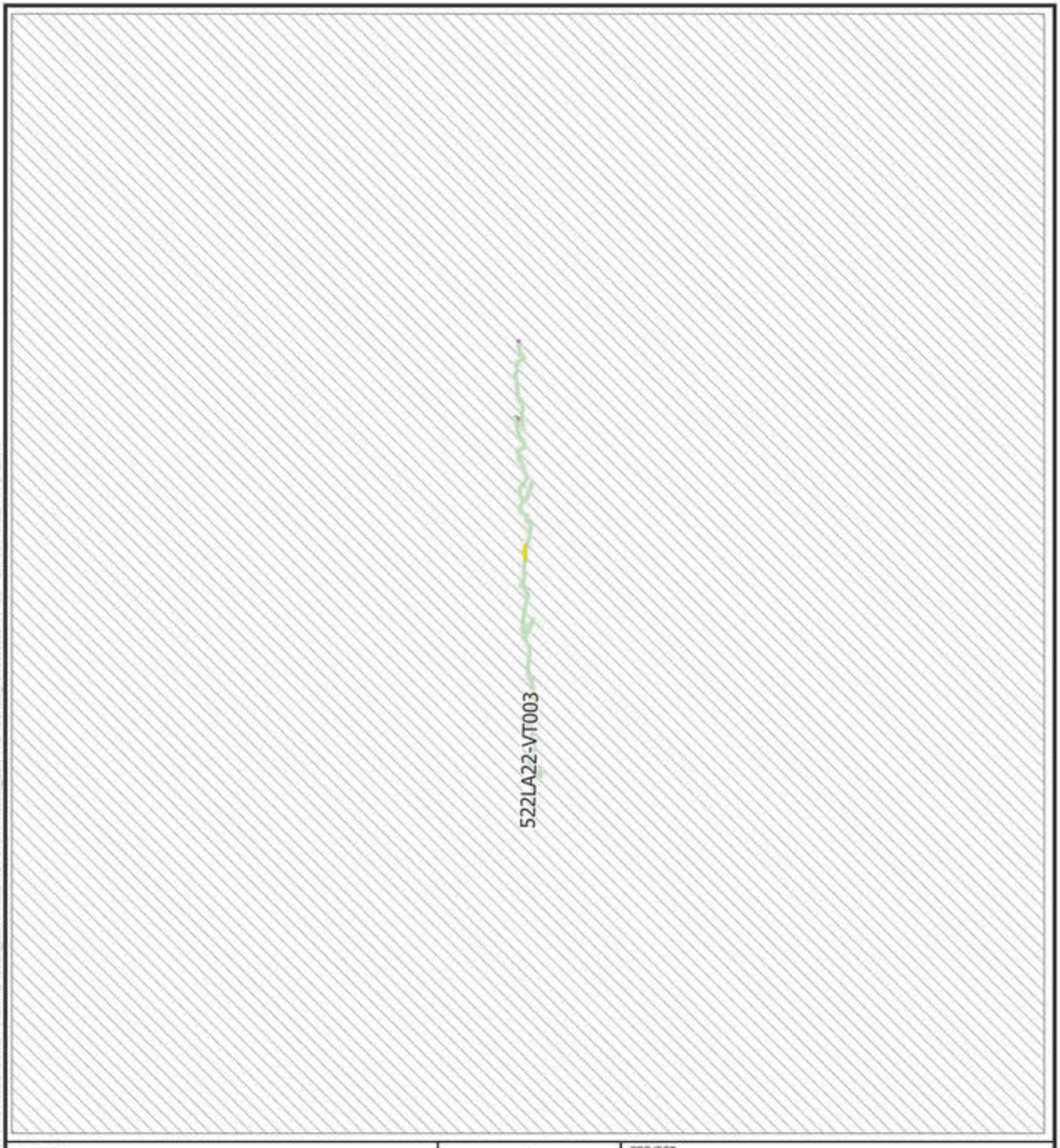
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT002

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

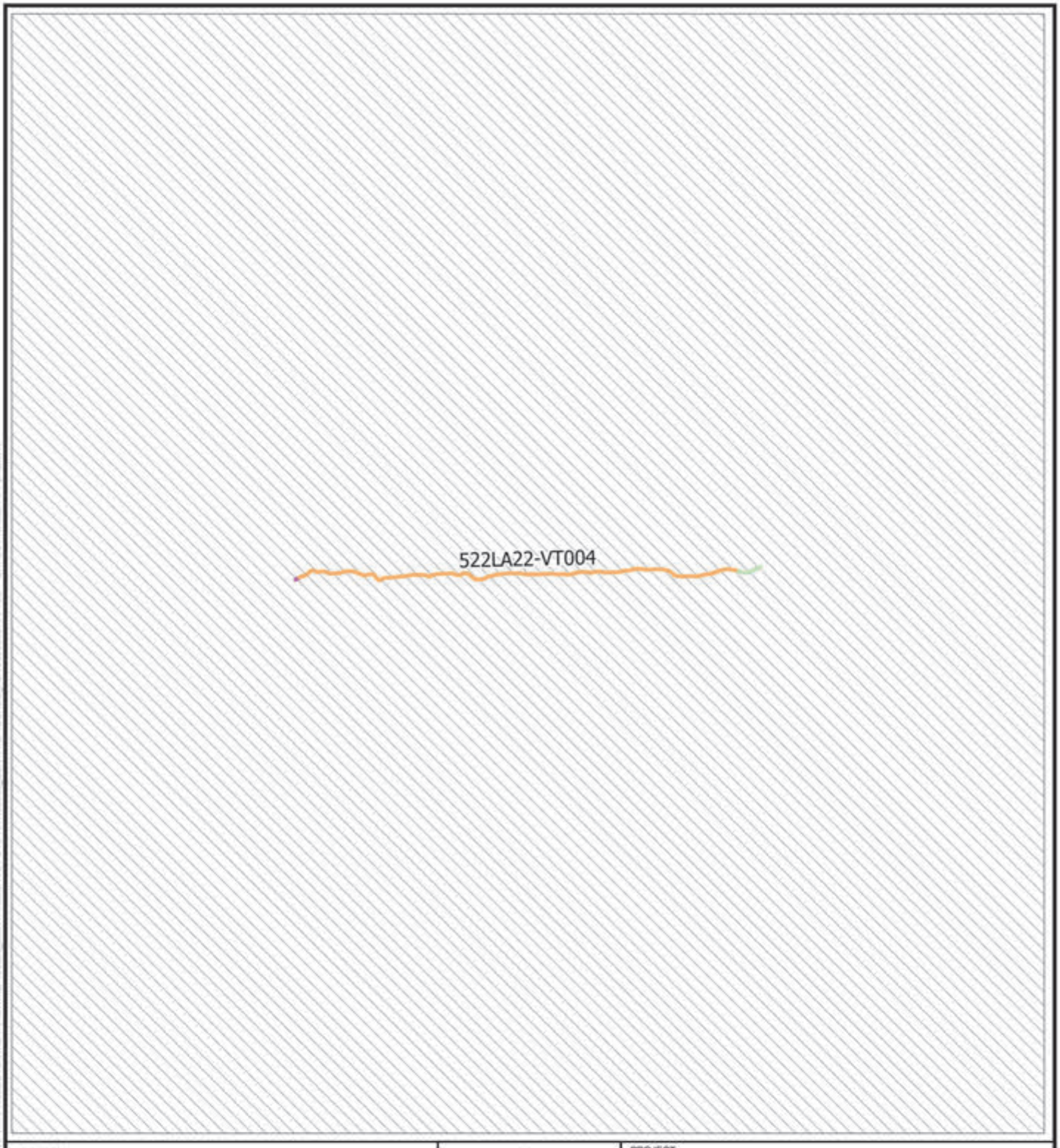
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

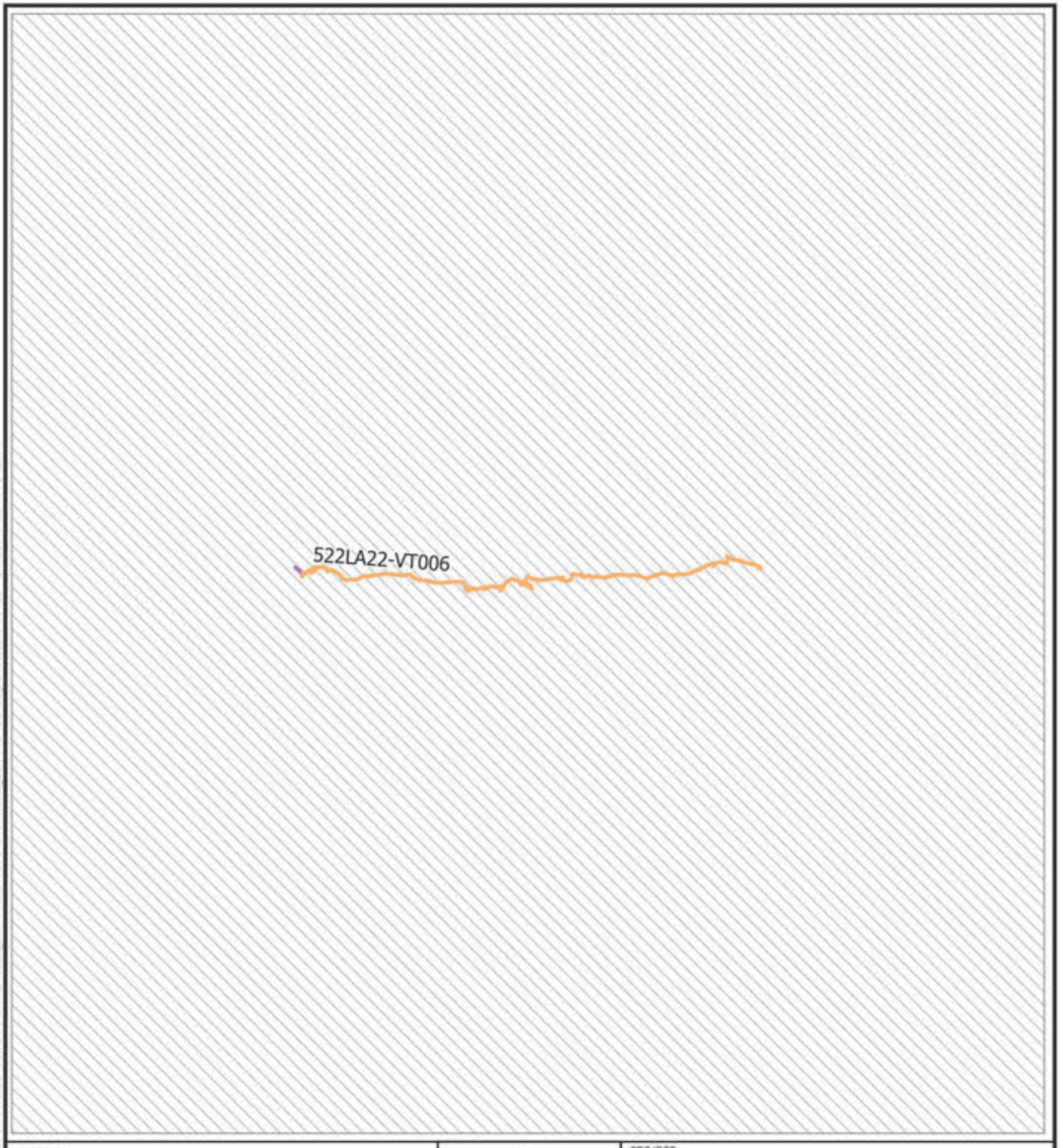
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

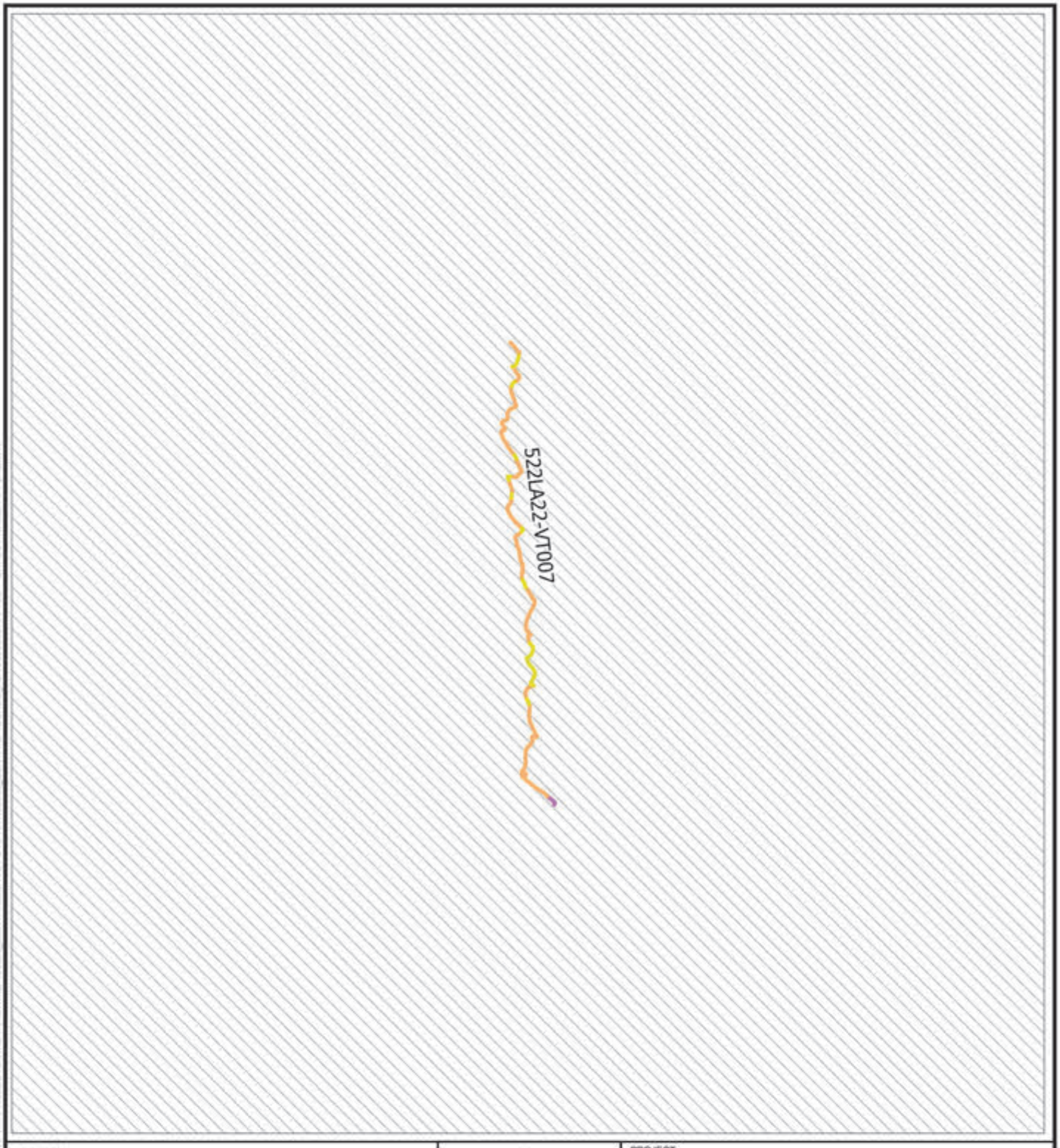
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT006

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area
Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

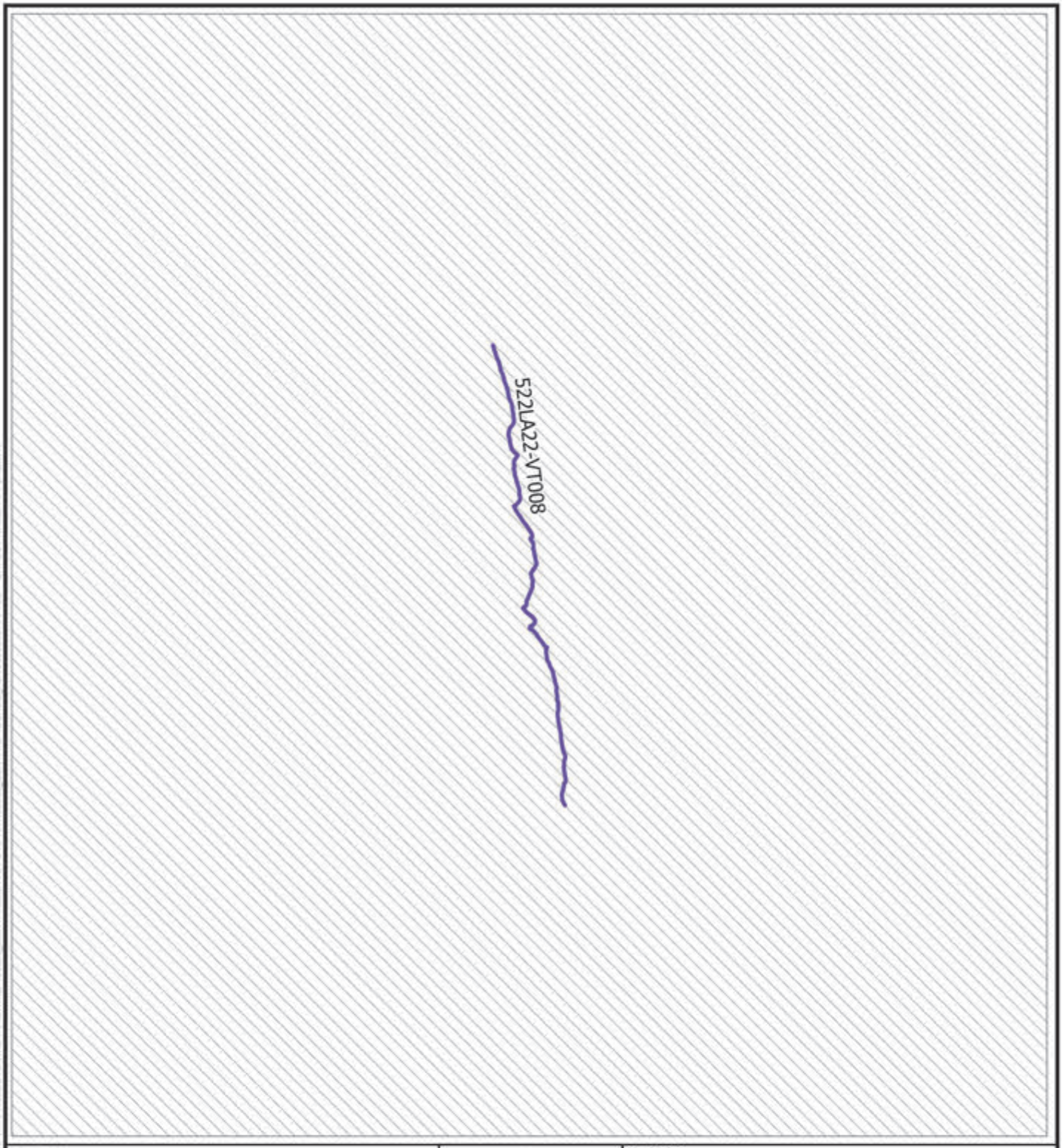
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area

Sandy Mud

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522LA22-VT008	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD", LAYOUT NAME: JUPEGMAP.MXD

522 Lease Area

Sandy Mud

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

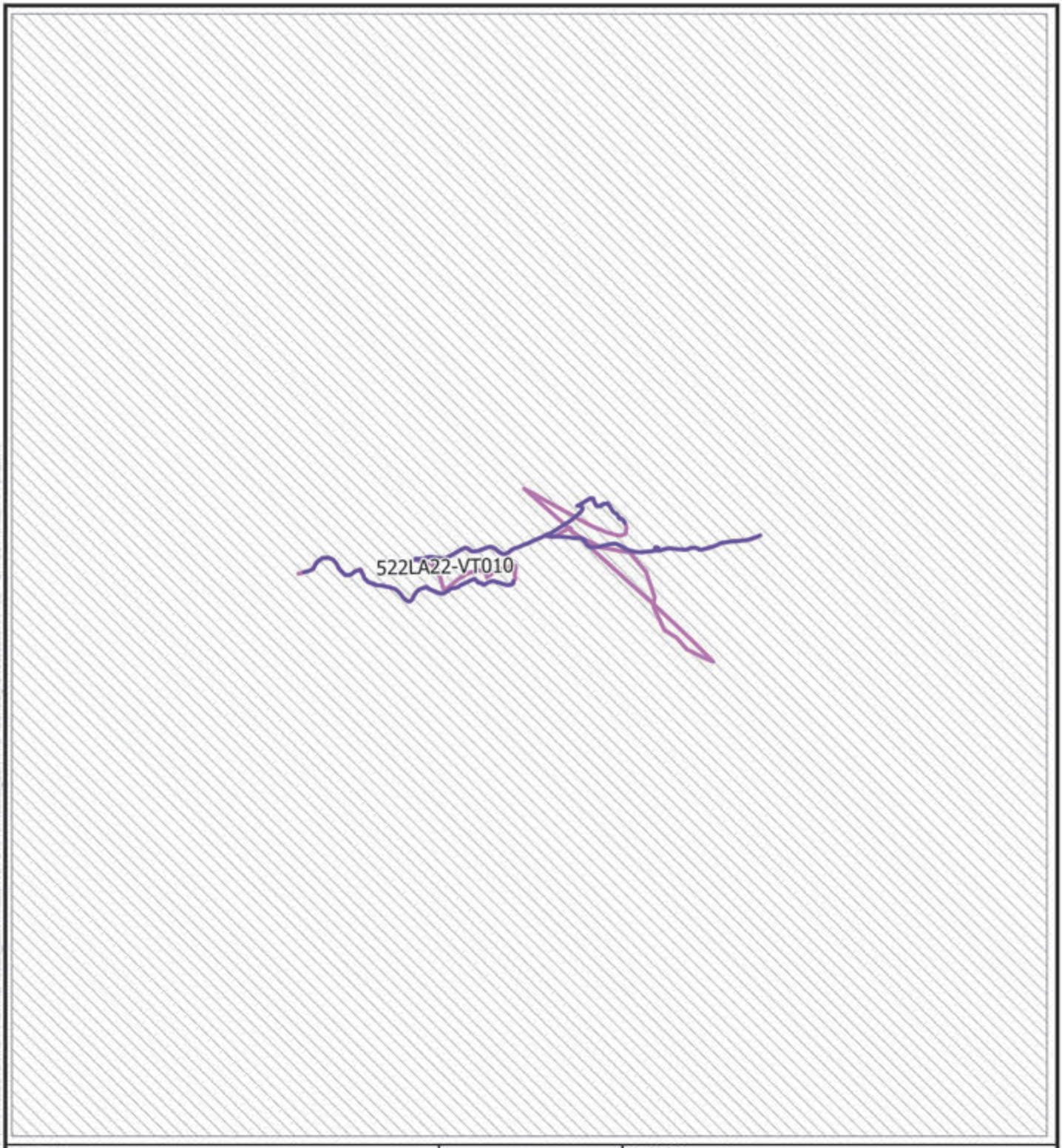
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sandy Mud
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

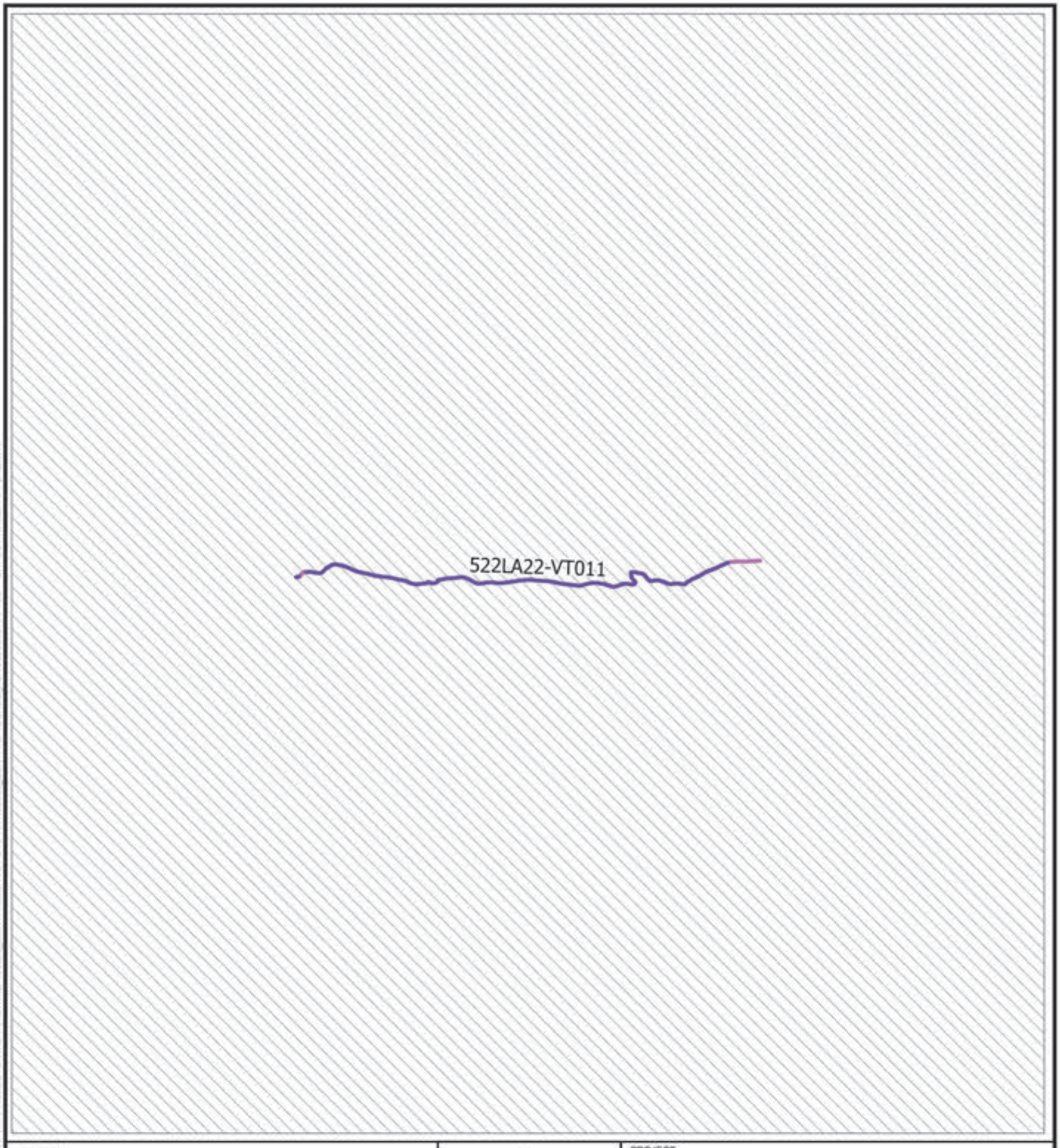
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sandy Mud
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

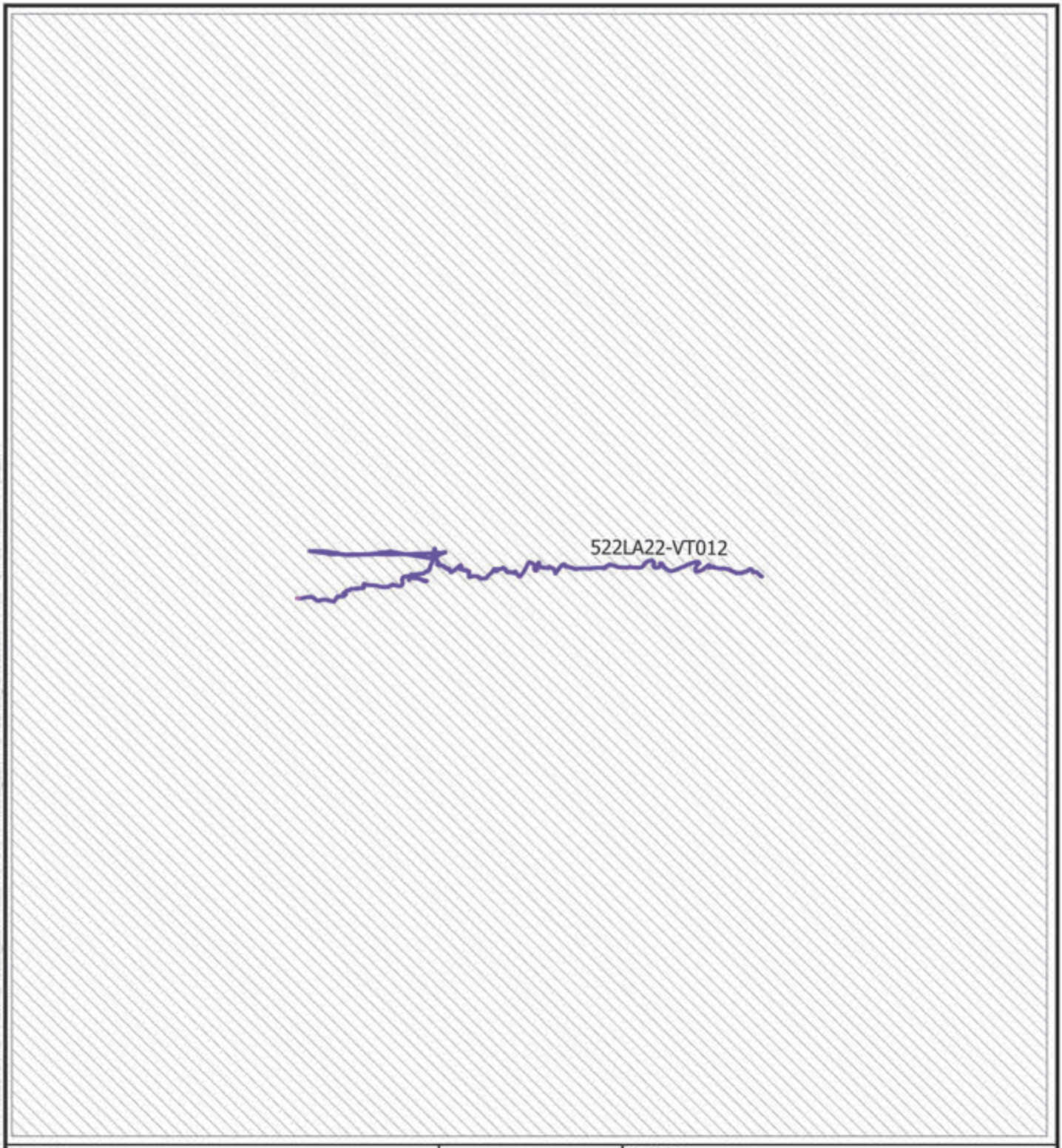
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVEST\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area
Sandy Mud
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

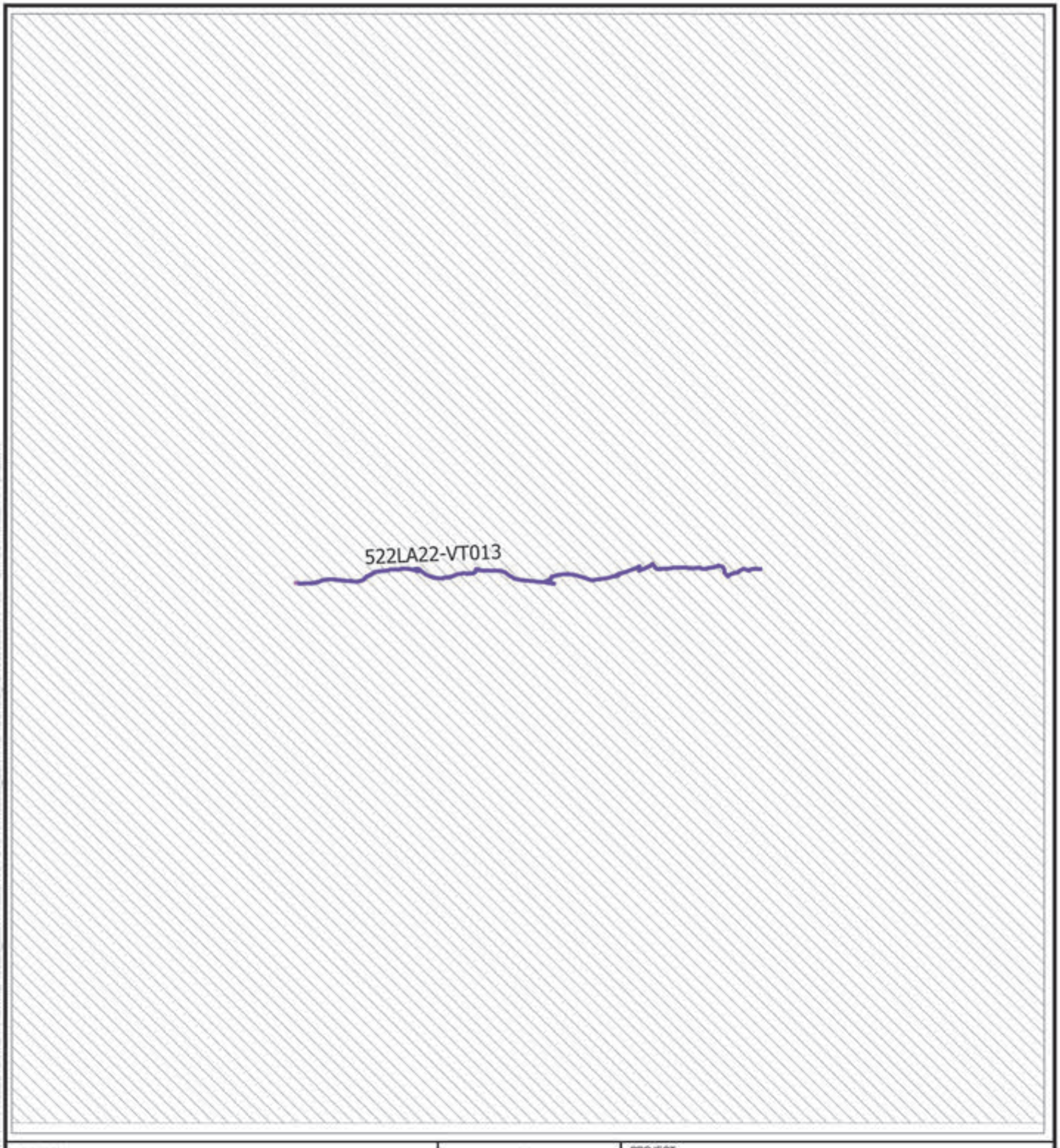
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



522 Lease Area

Sandy Mud

Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

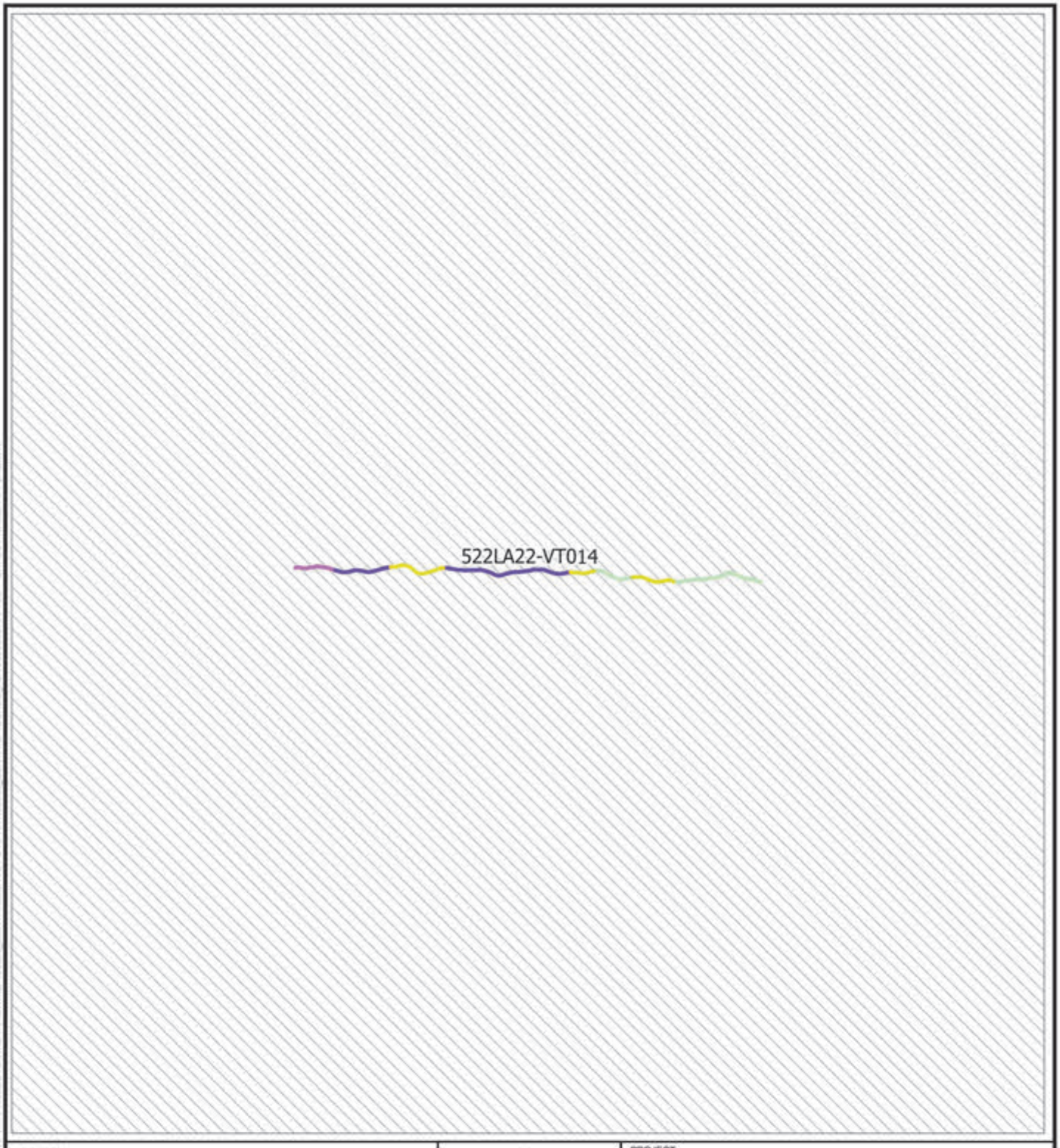
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

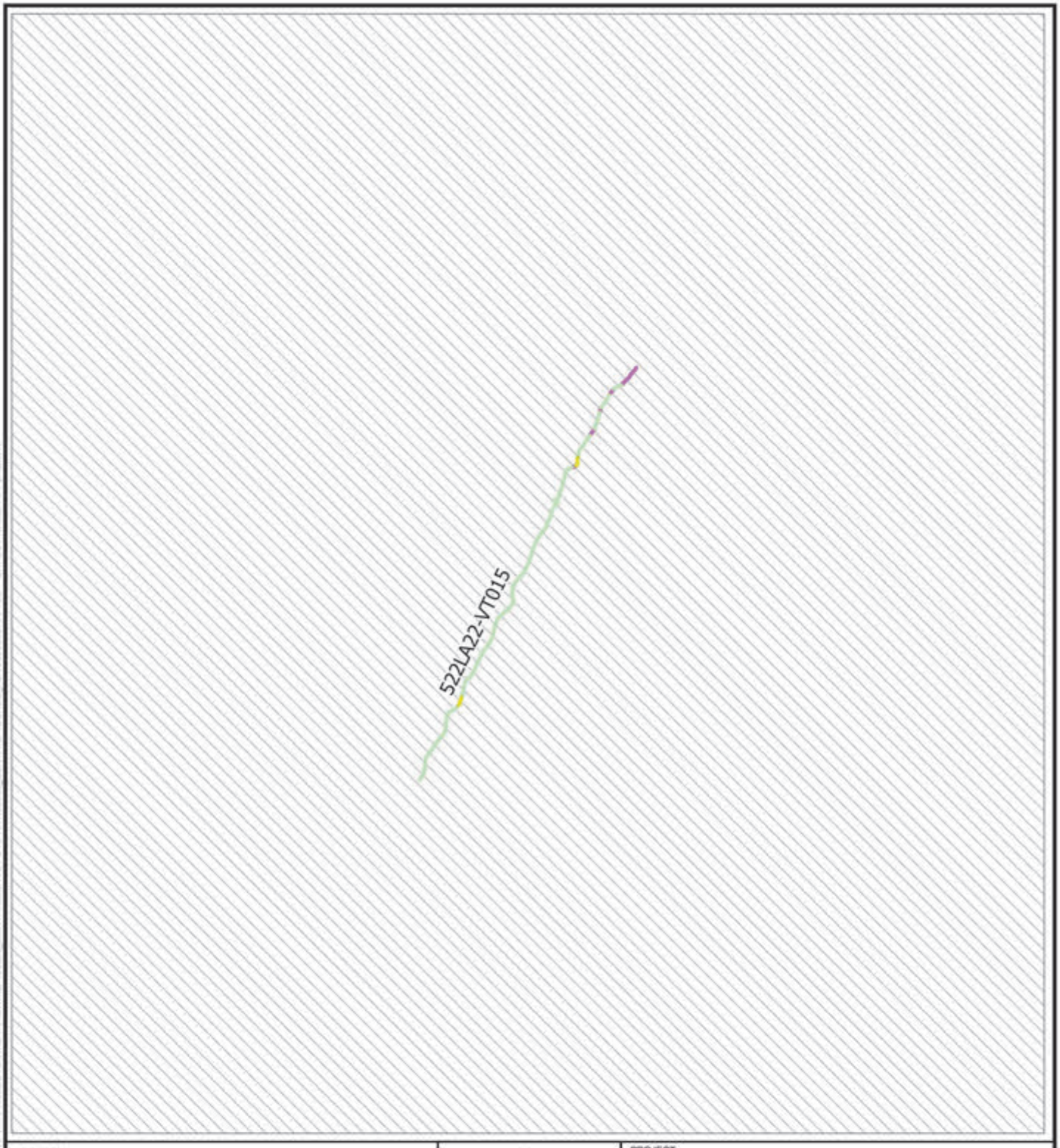
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVES\ARRAN\MXD_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: ARRAN_A



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

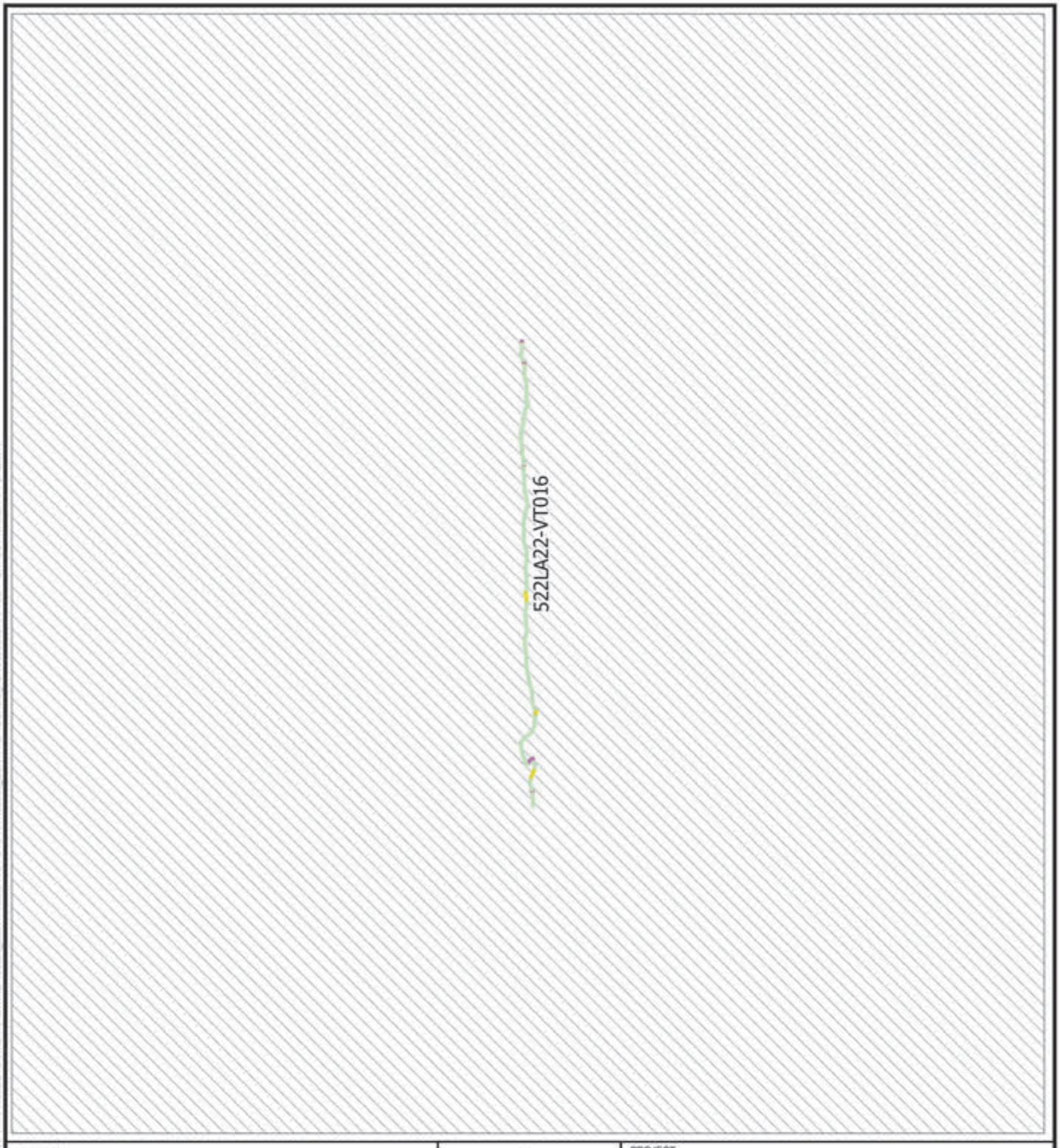
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT015

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYERS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

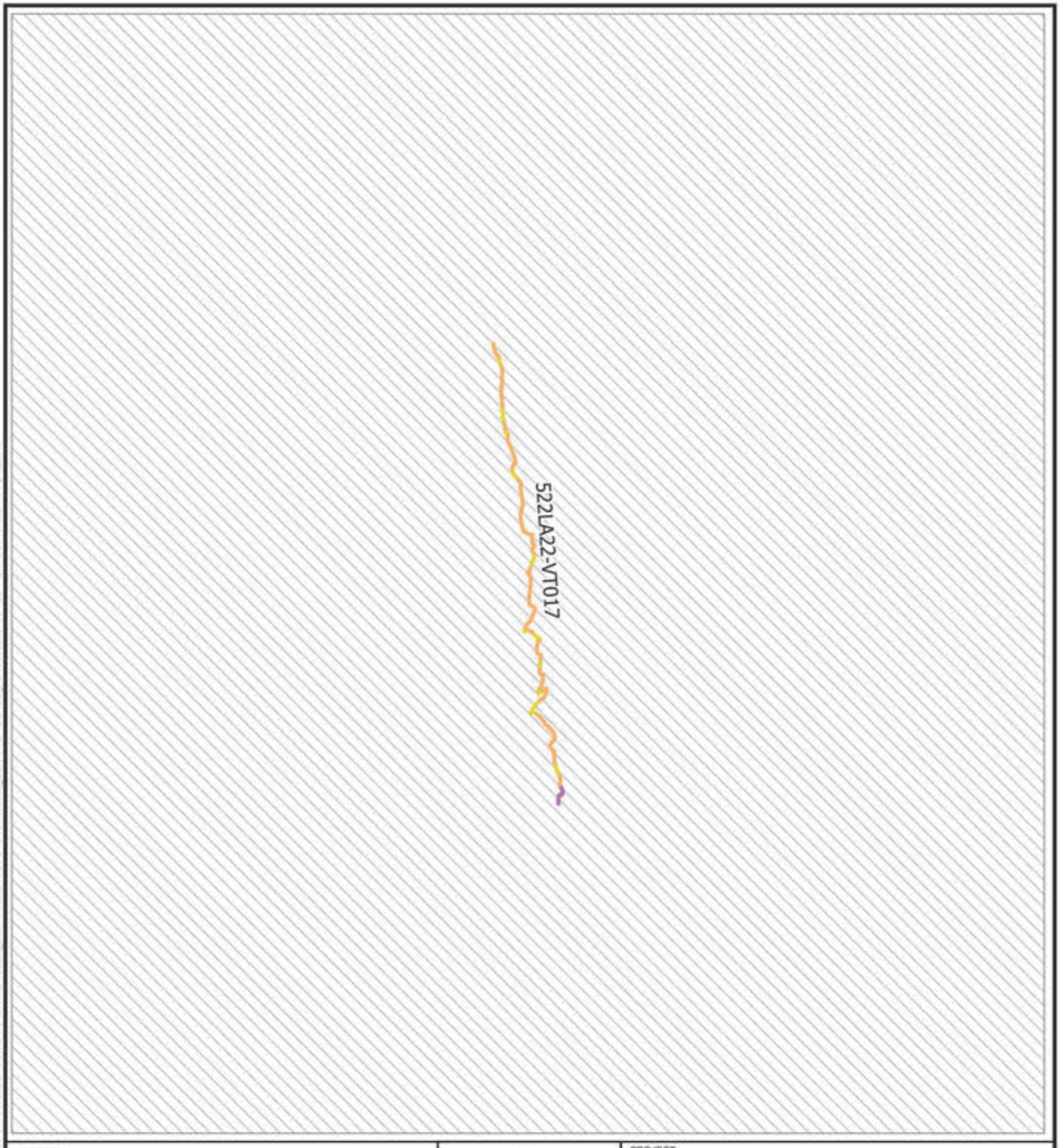
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522LA22-VT016	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

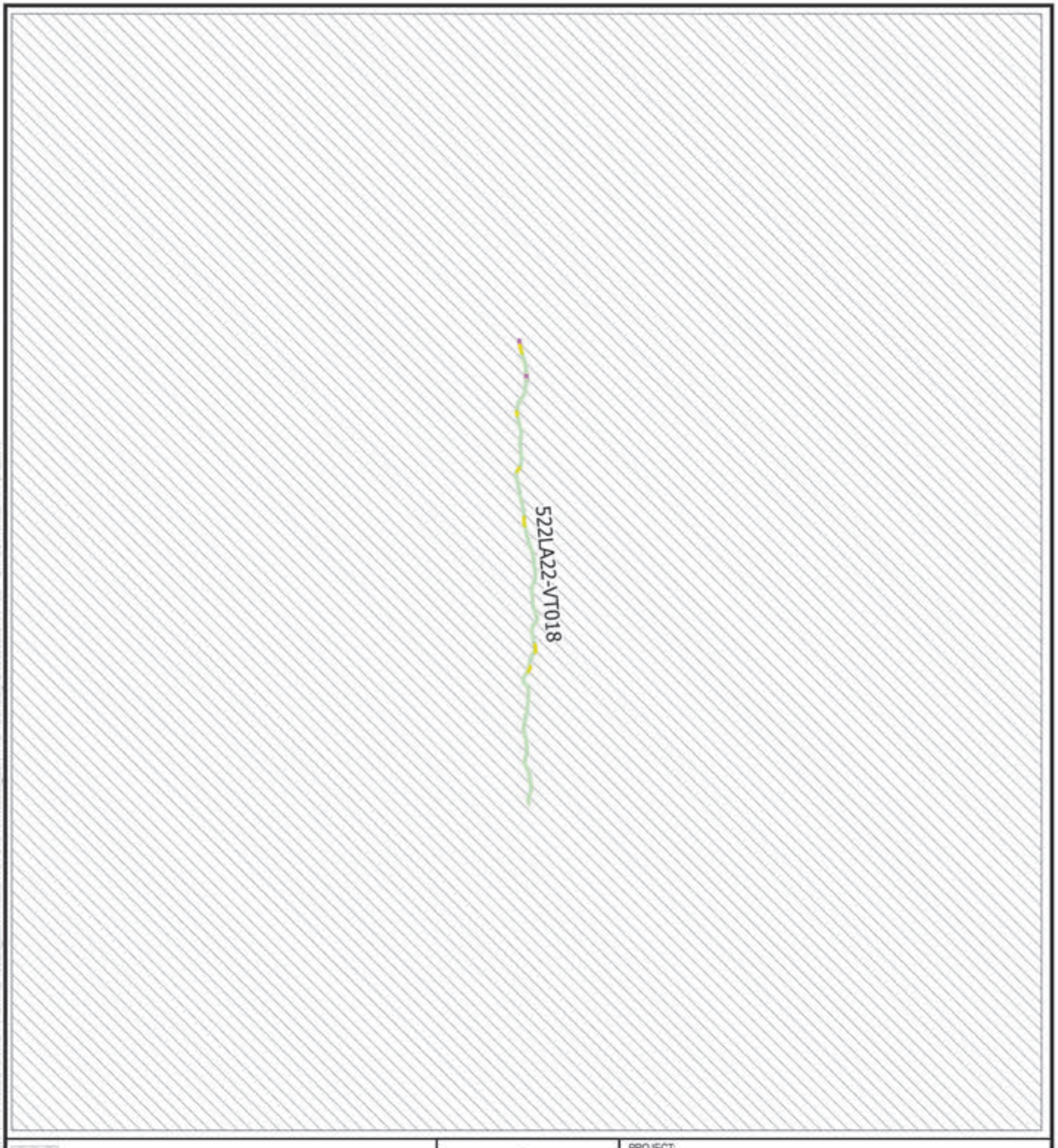
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT017

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD" - LAYOUT NAME: LAYOUT1

522 Lease Area
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522LA22-VT019

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 03:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor

Sand

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

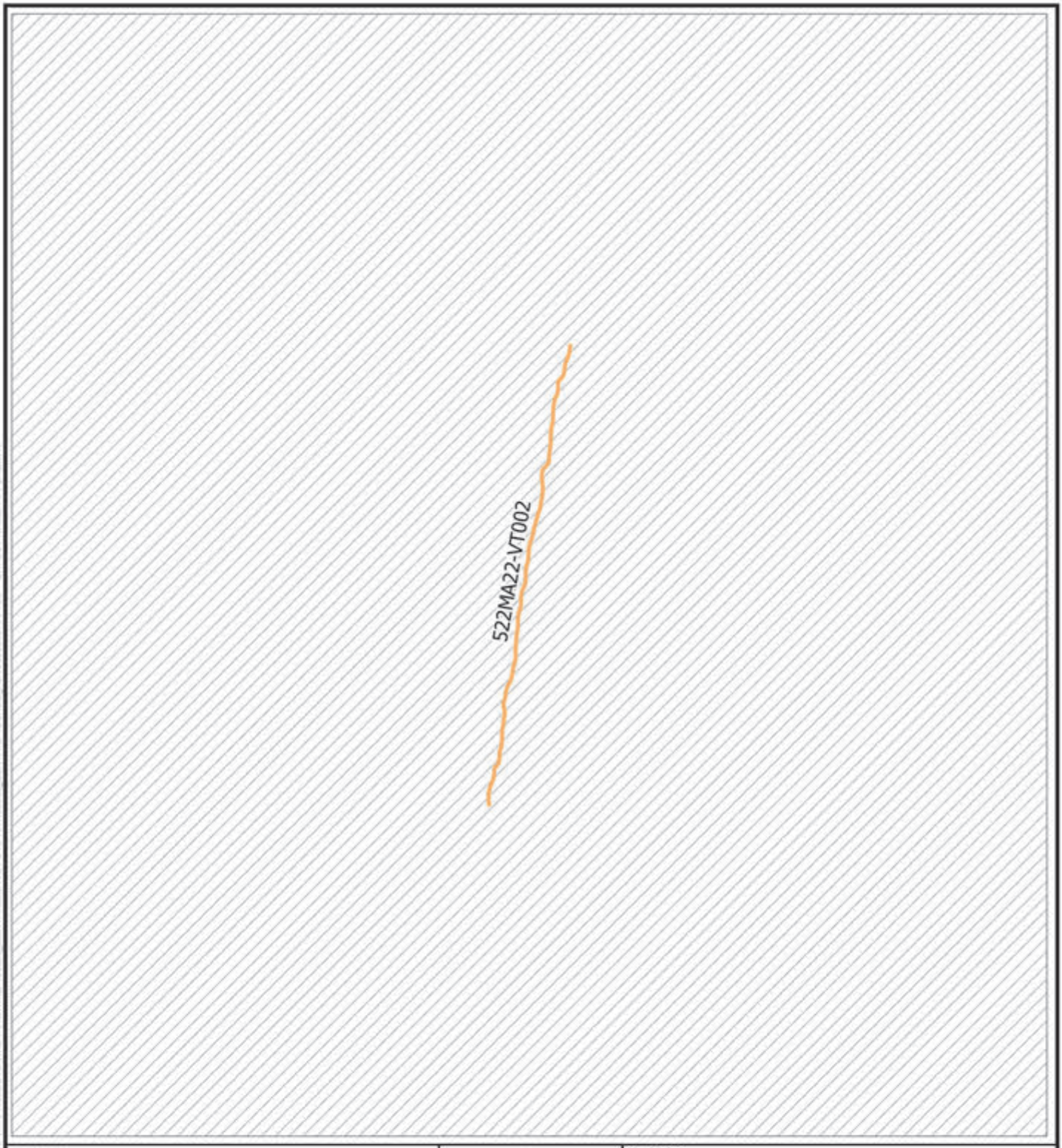
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

"SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT002	

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

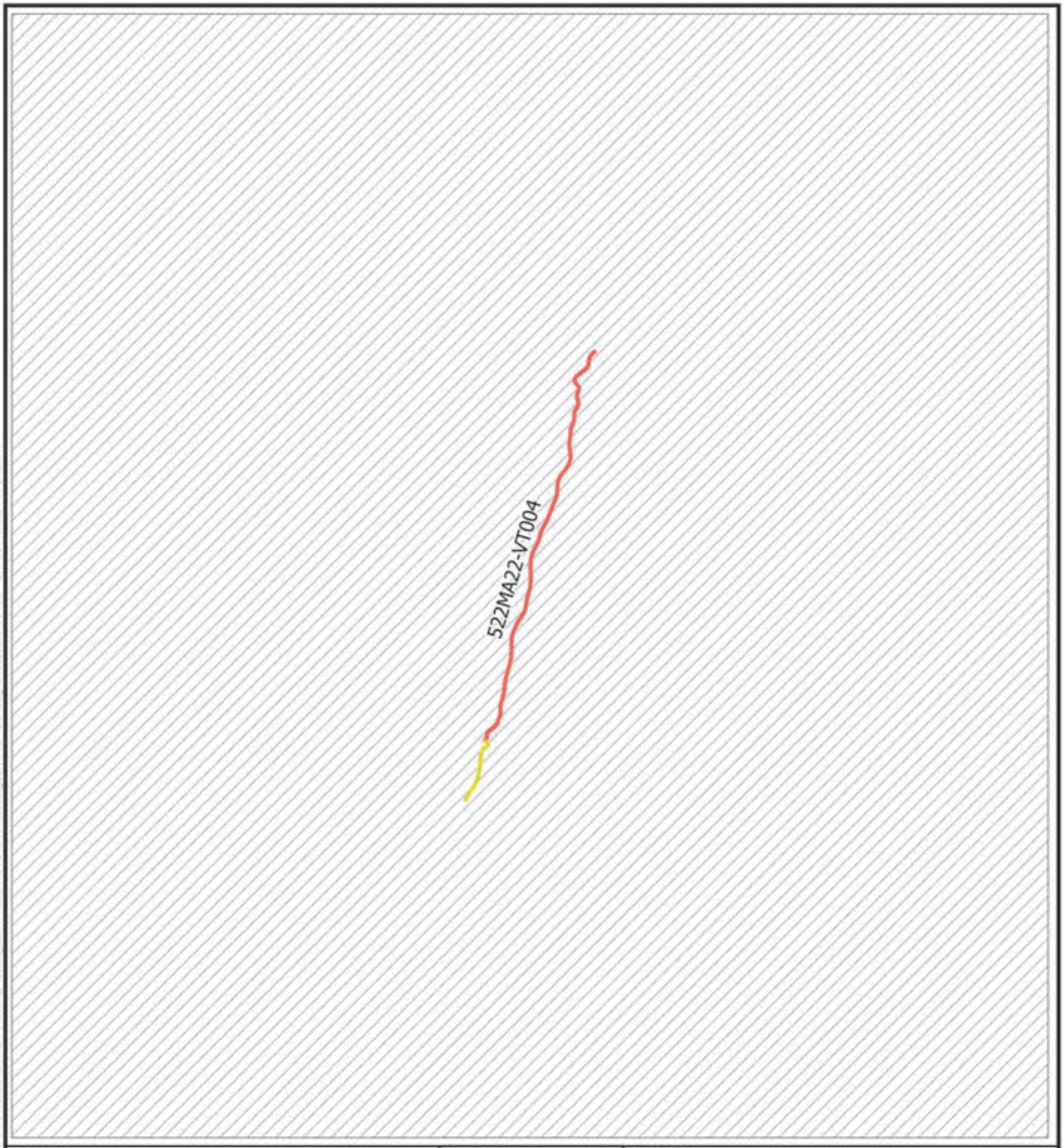
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel Mixes
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

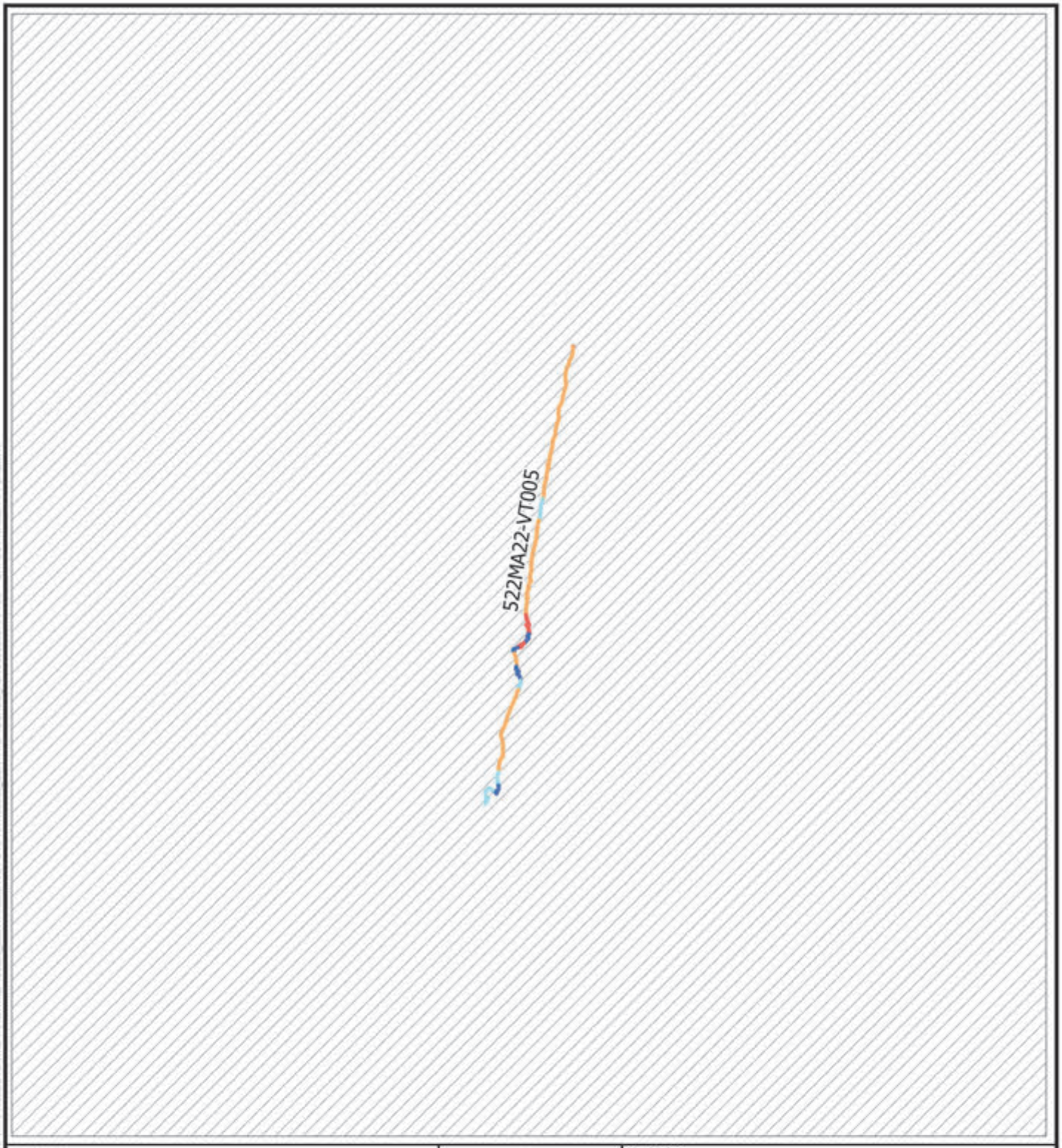
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

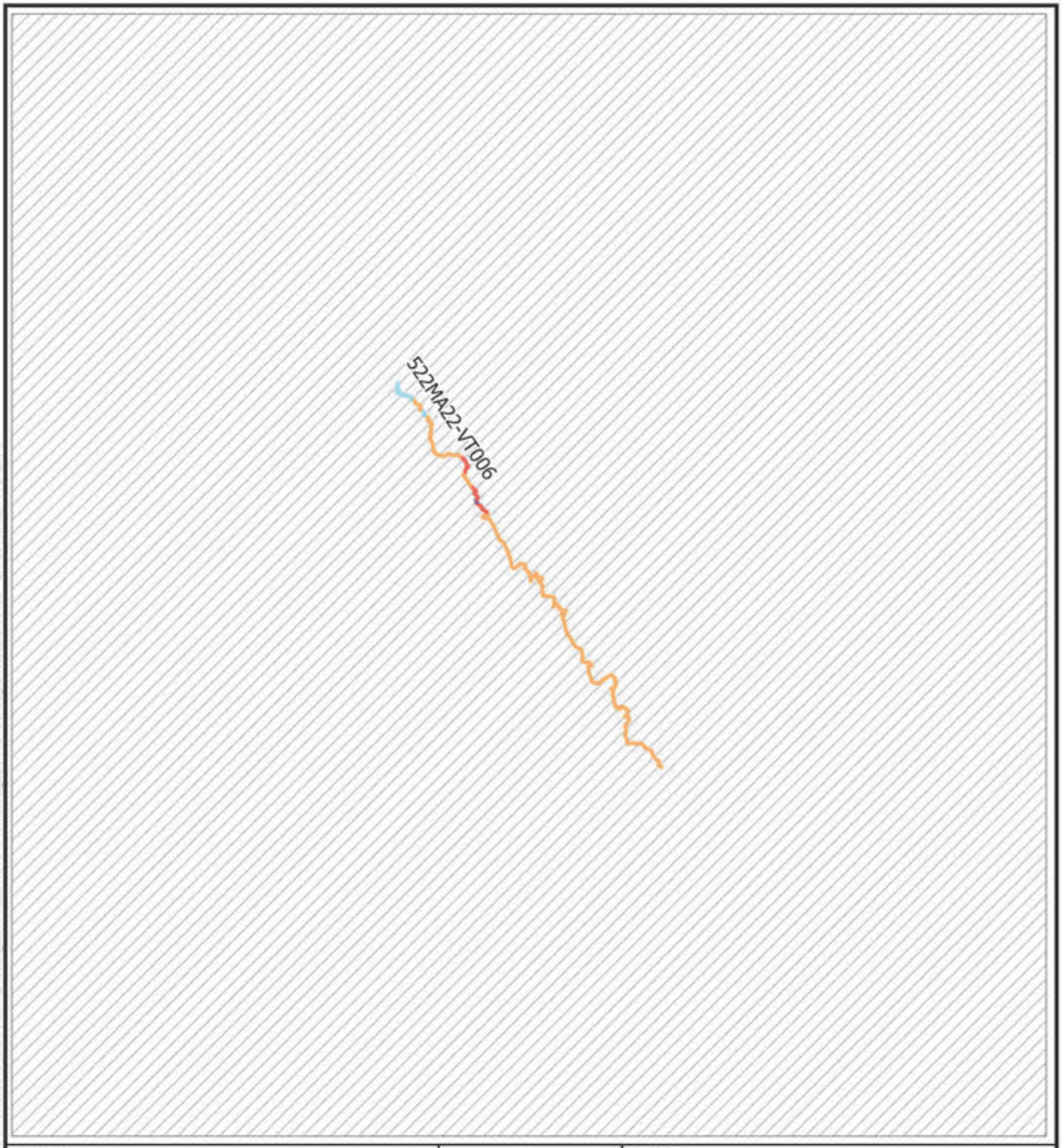
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAPPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

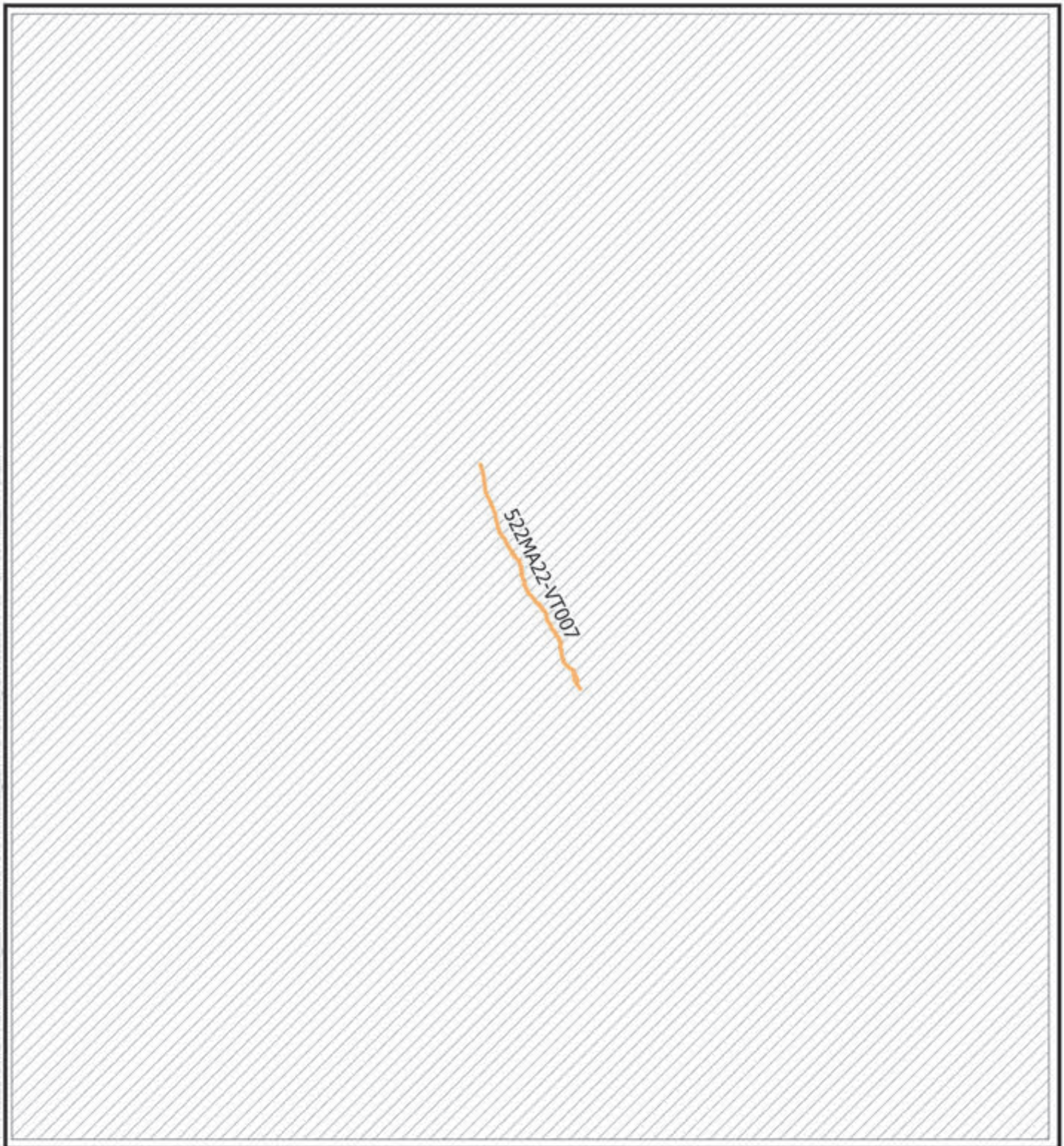
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT006

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

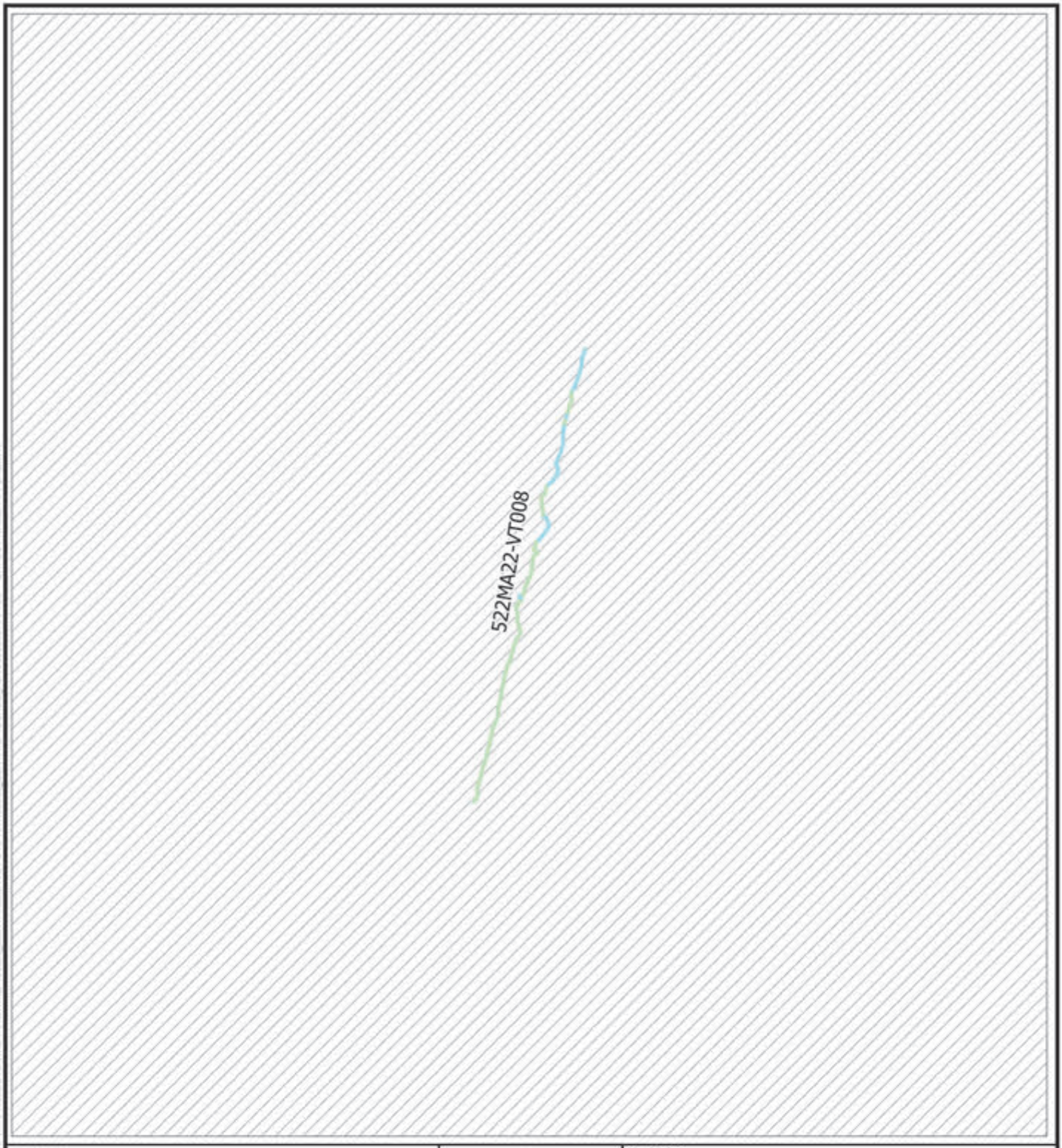
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

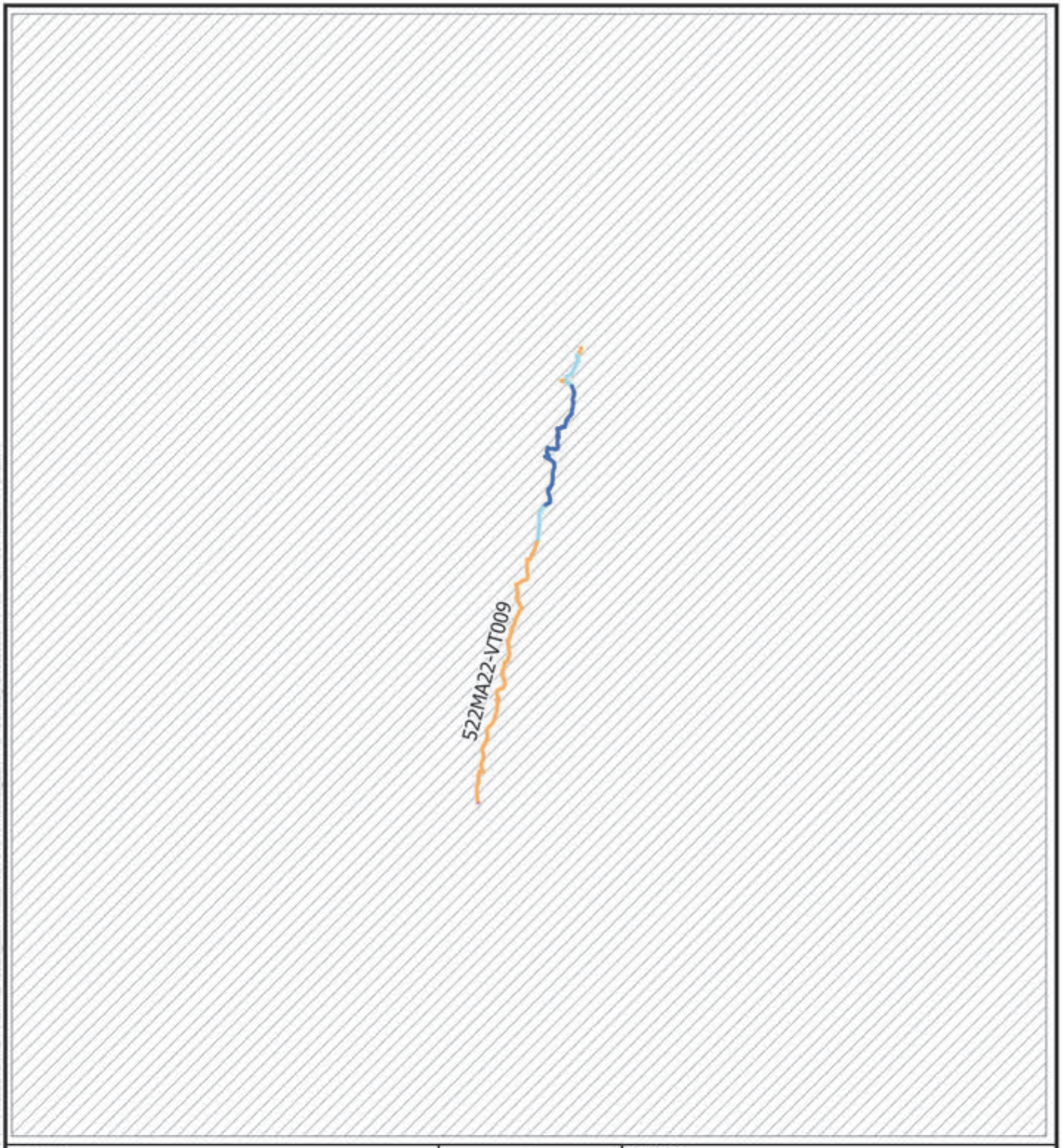
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

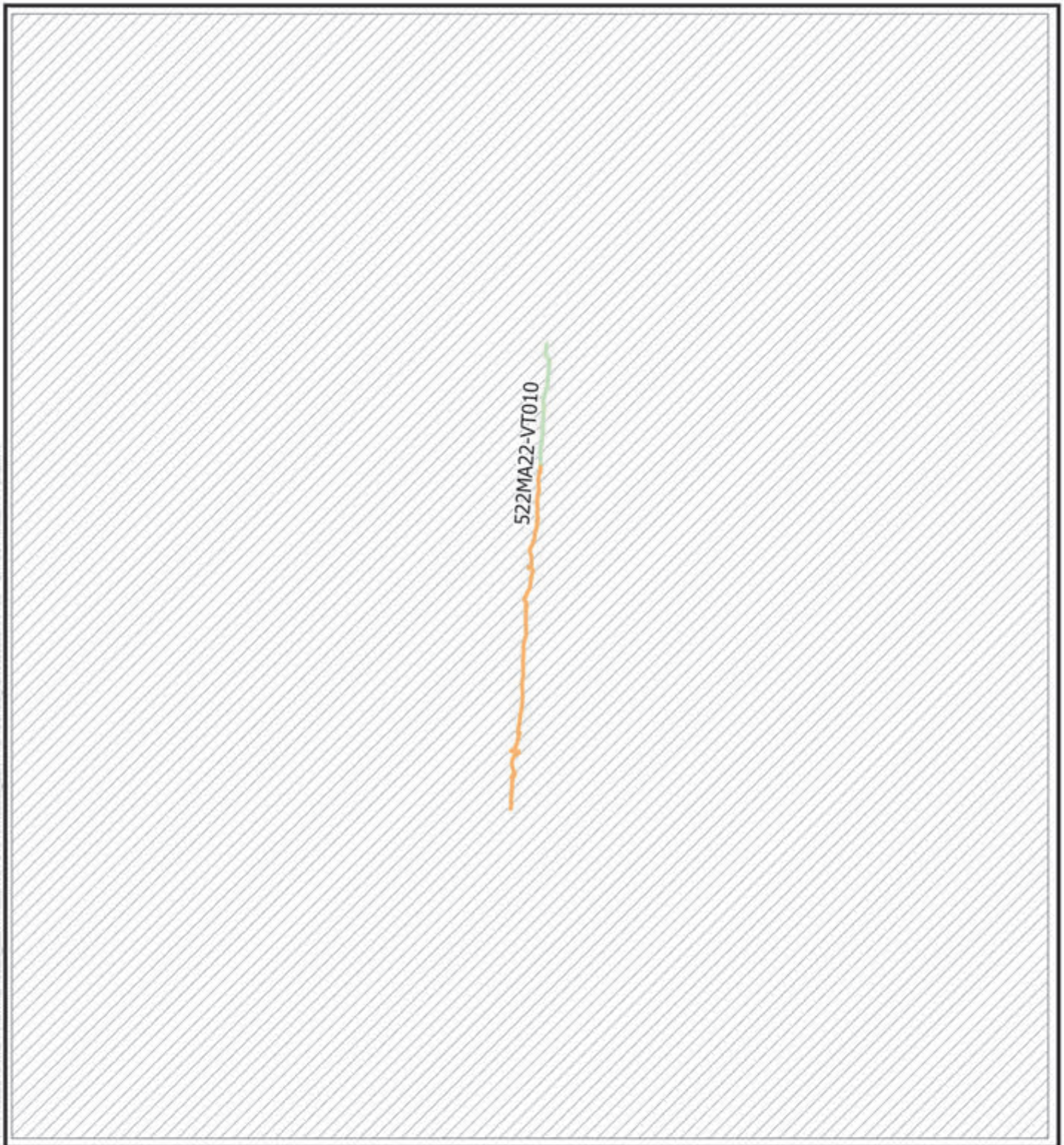
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 13:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

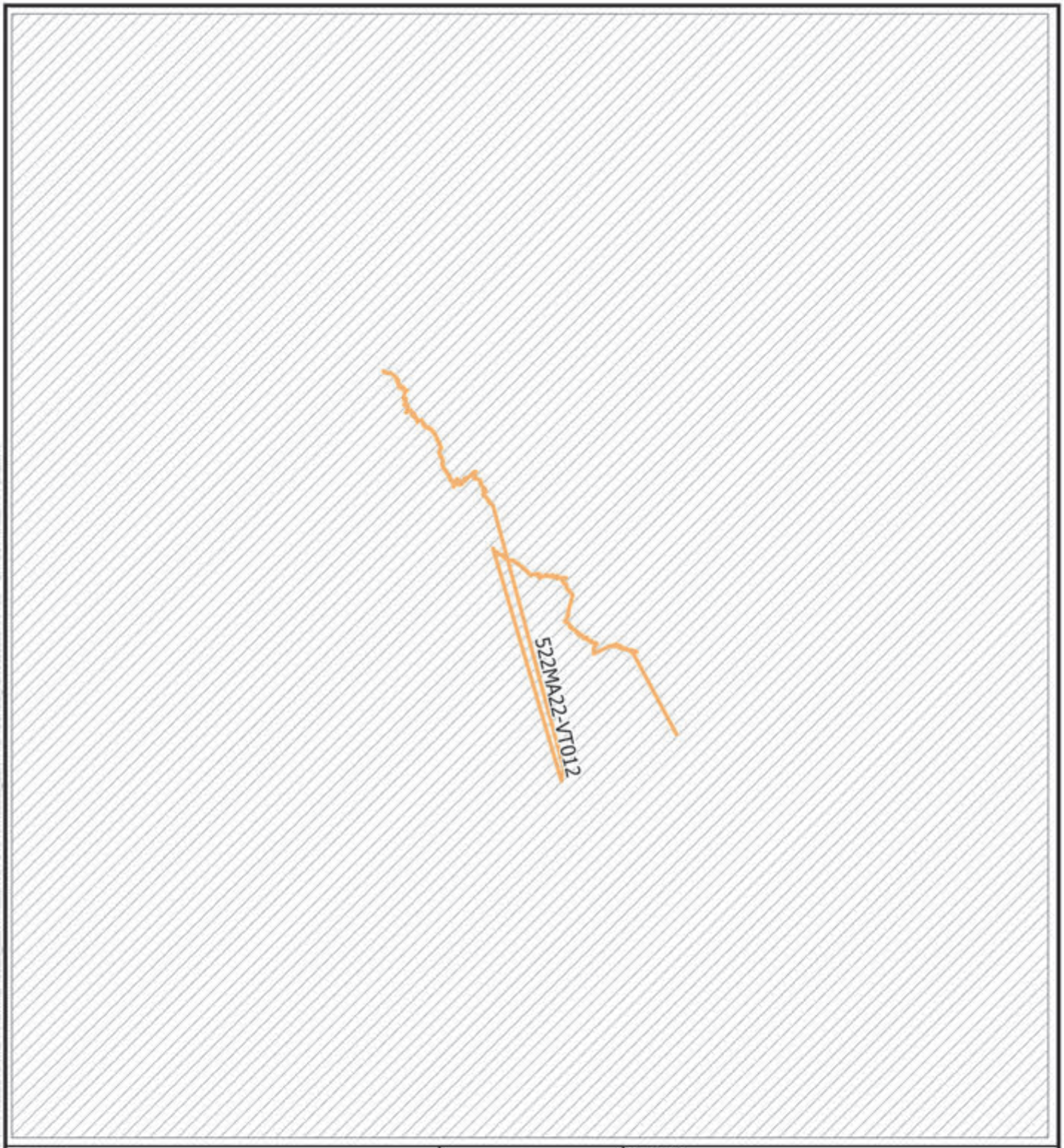
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

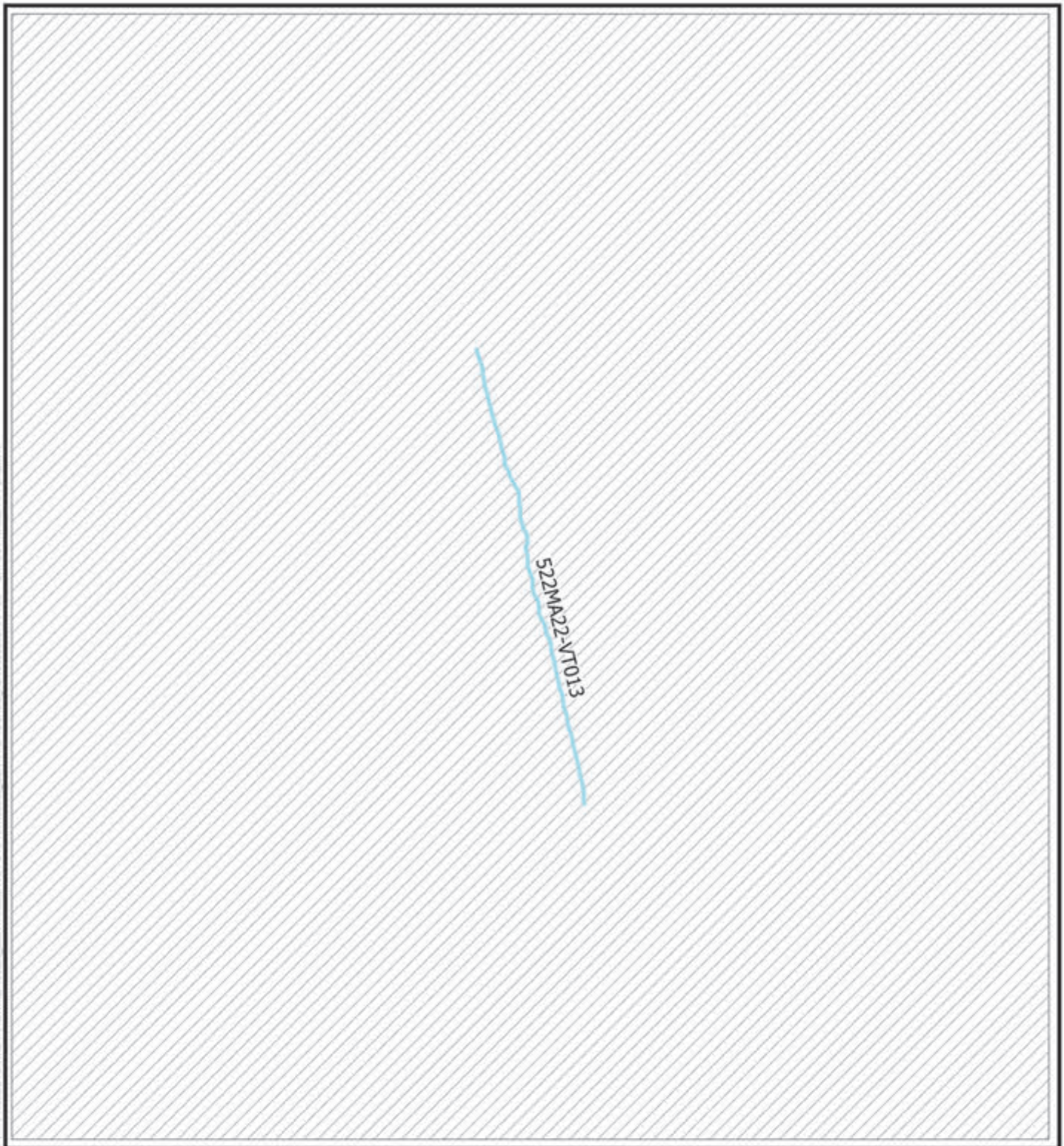
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Gravelly

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

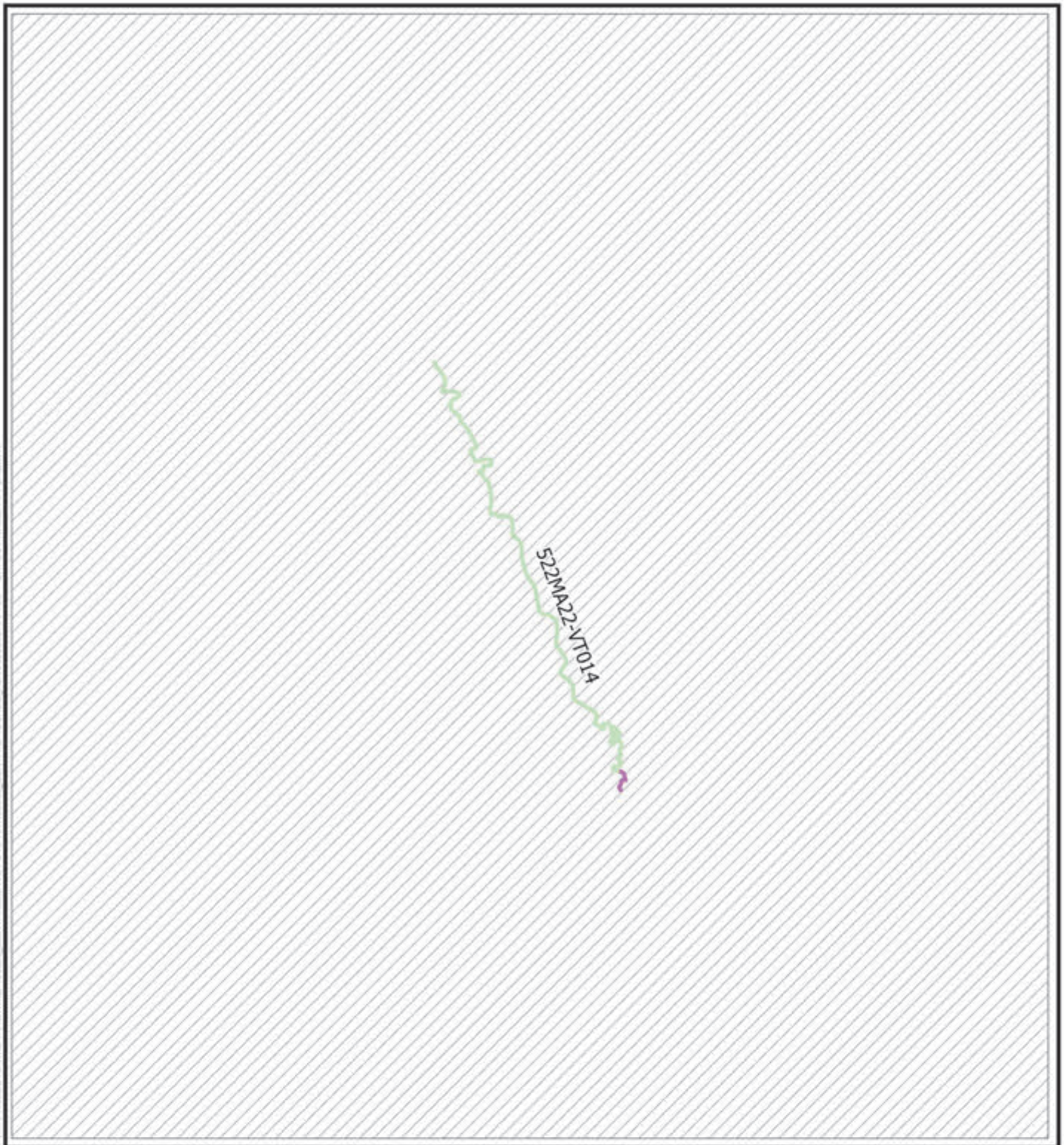
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

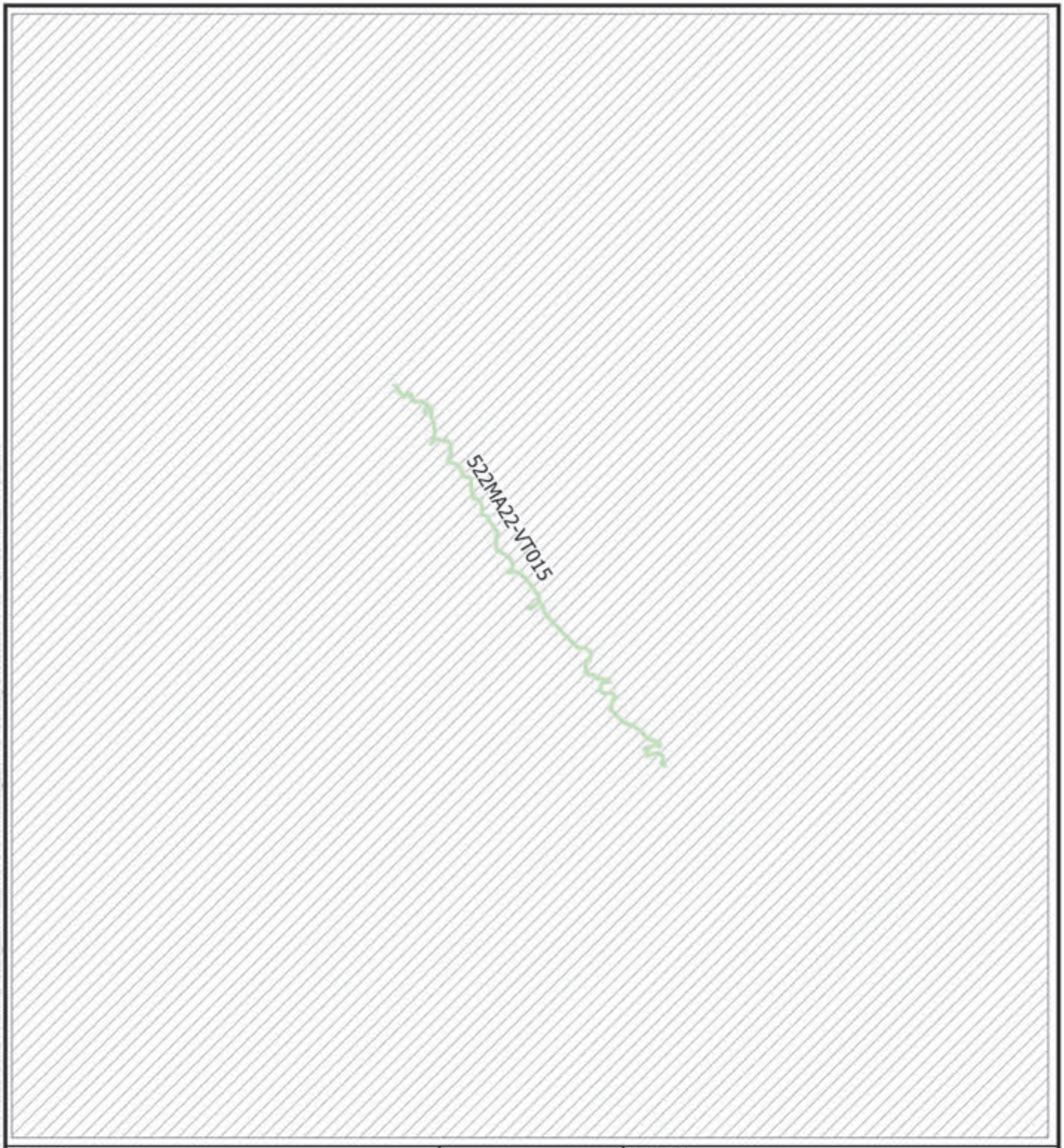
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

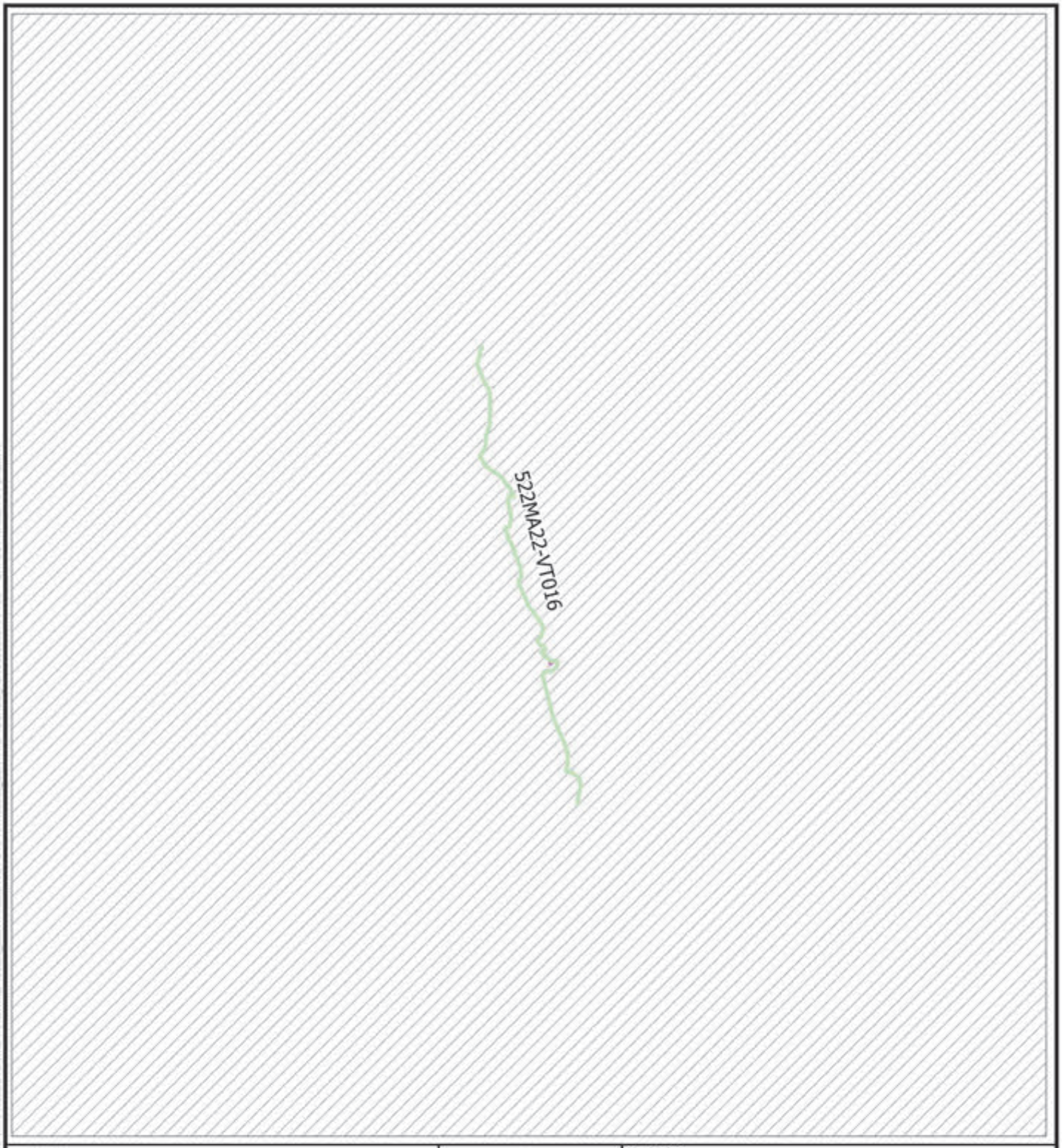
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT015	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVES\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

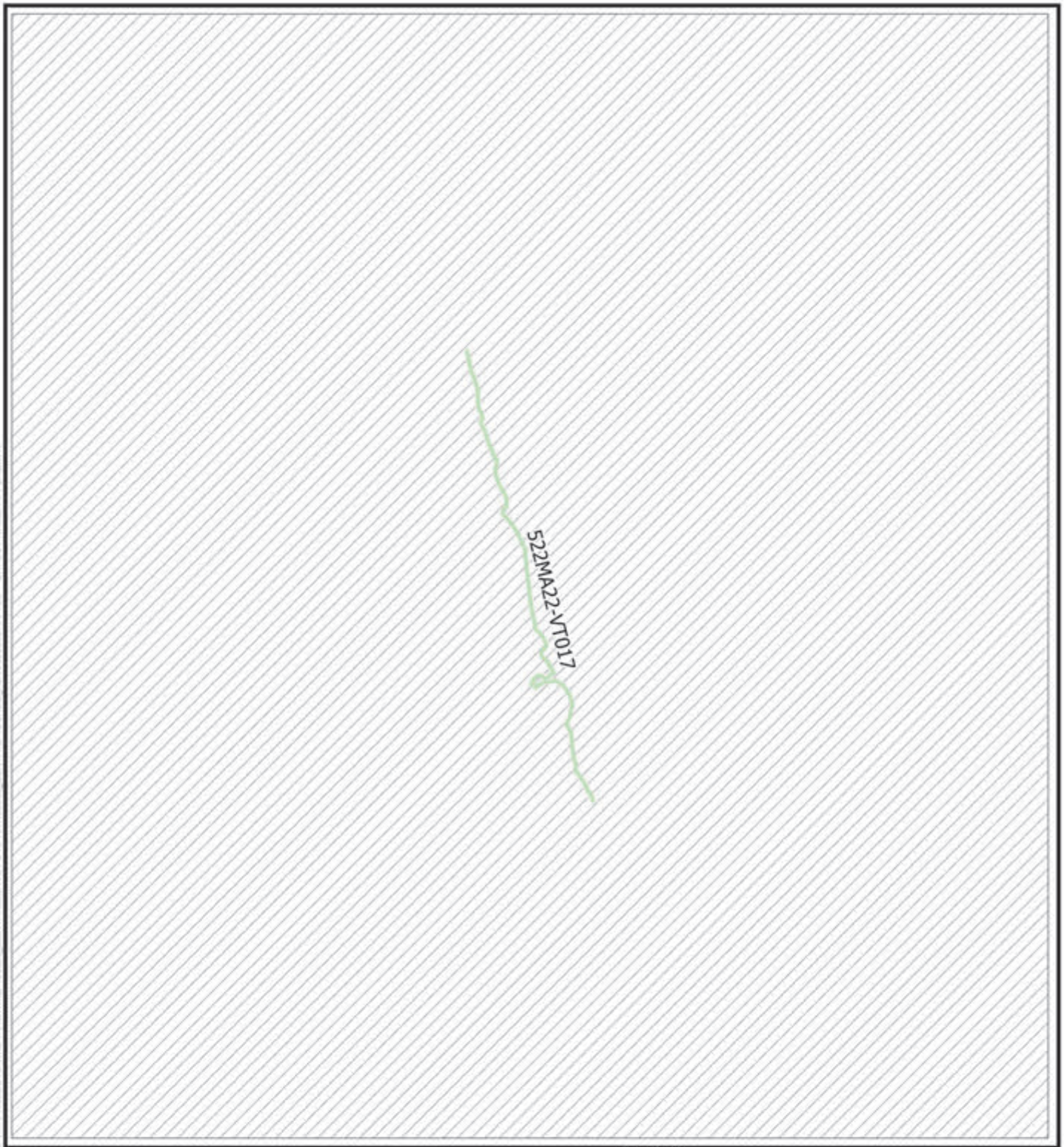
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARDWIND\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT017	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

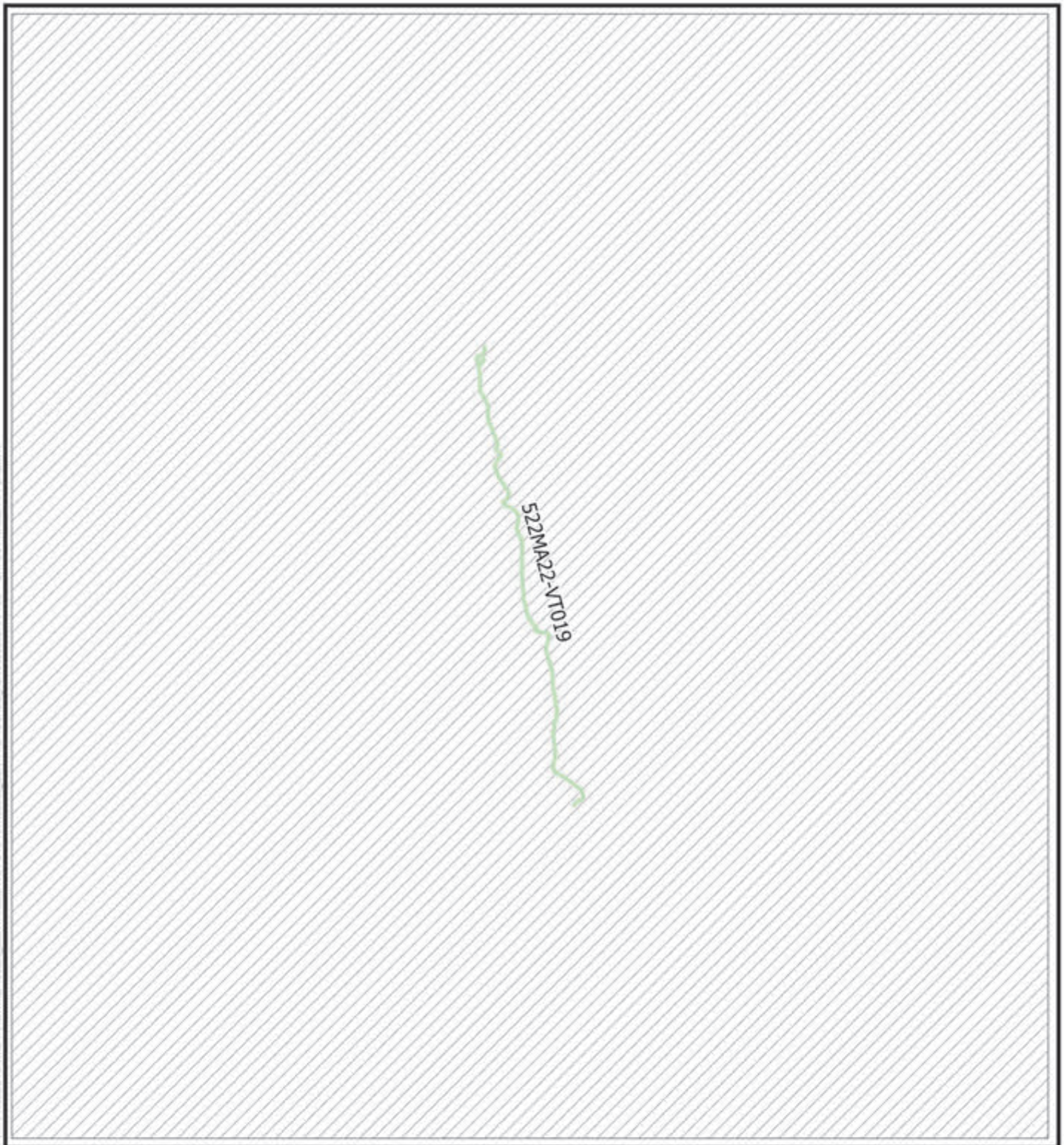
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

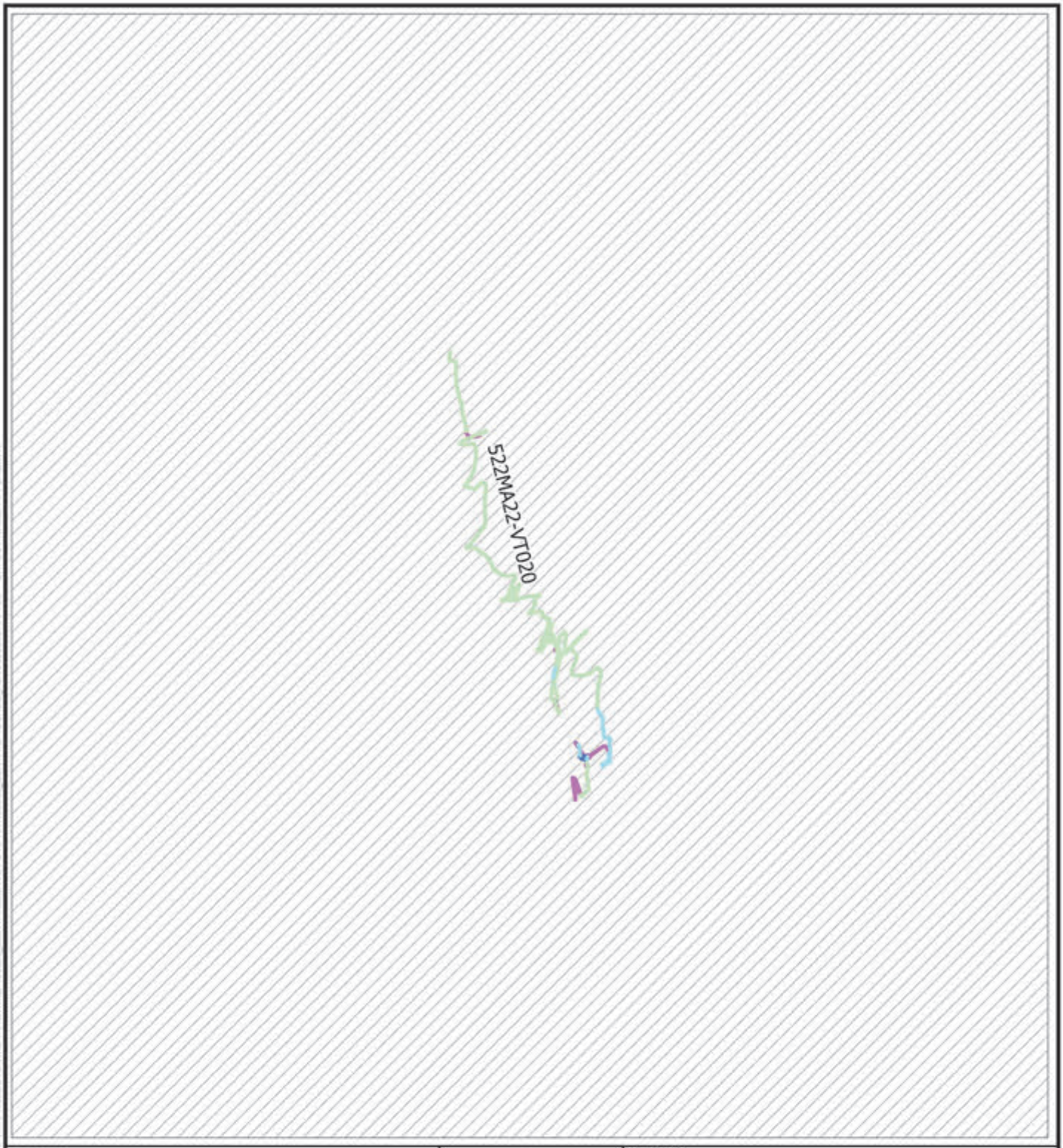
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT019	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

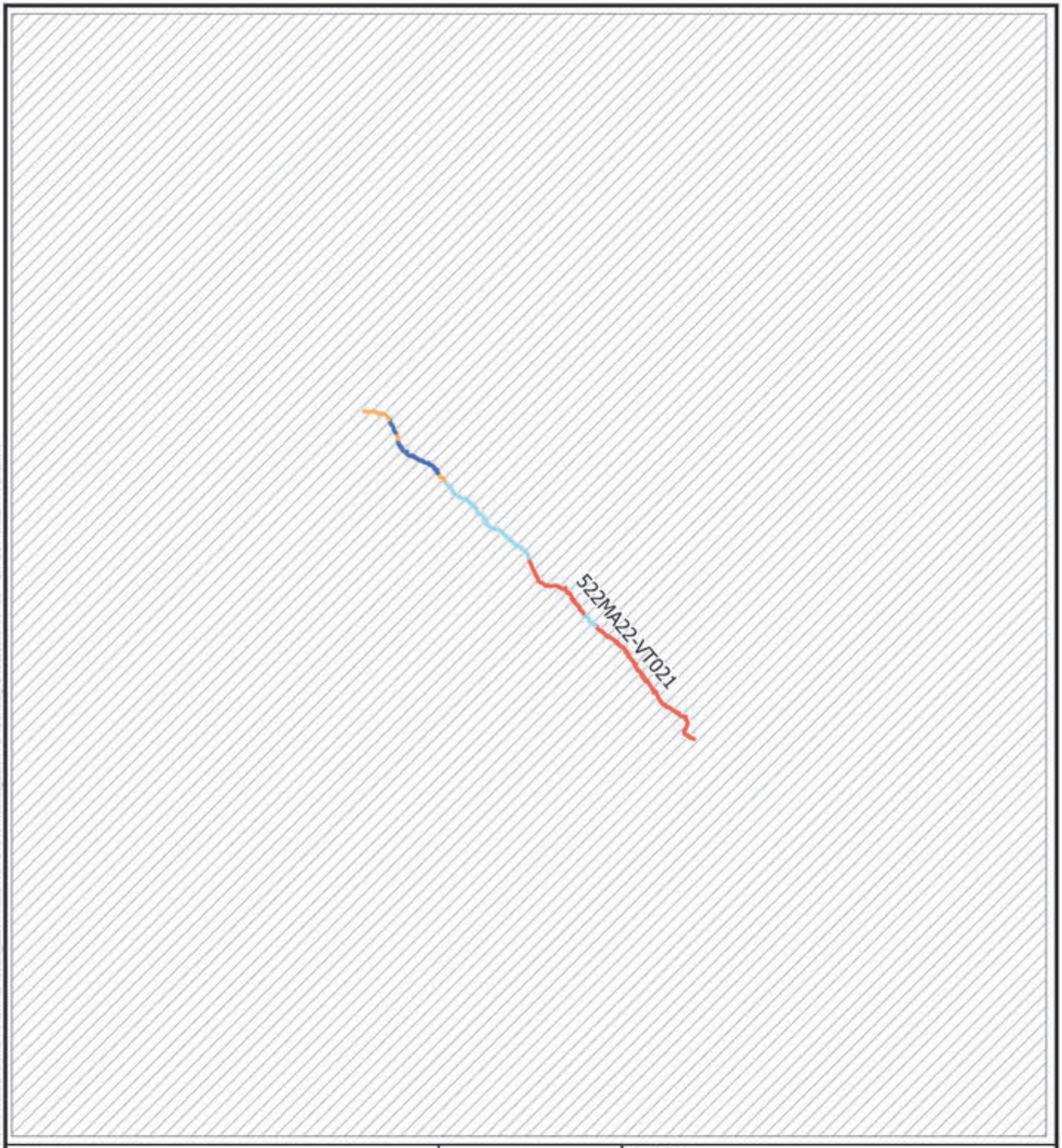
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT020

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT021

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

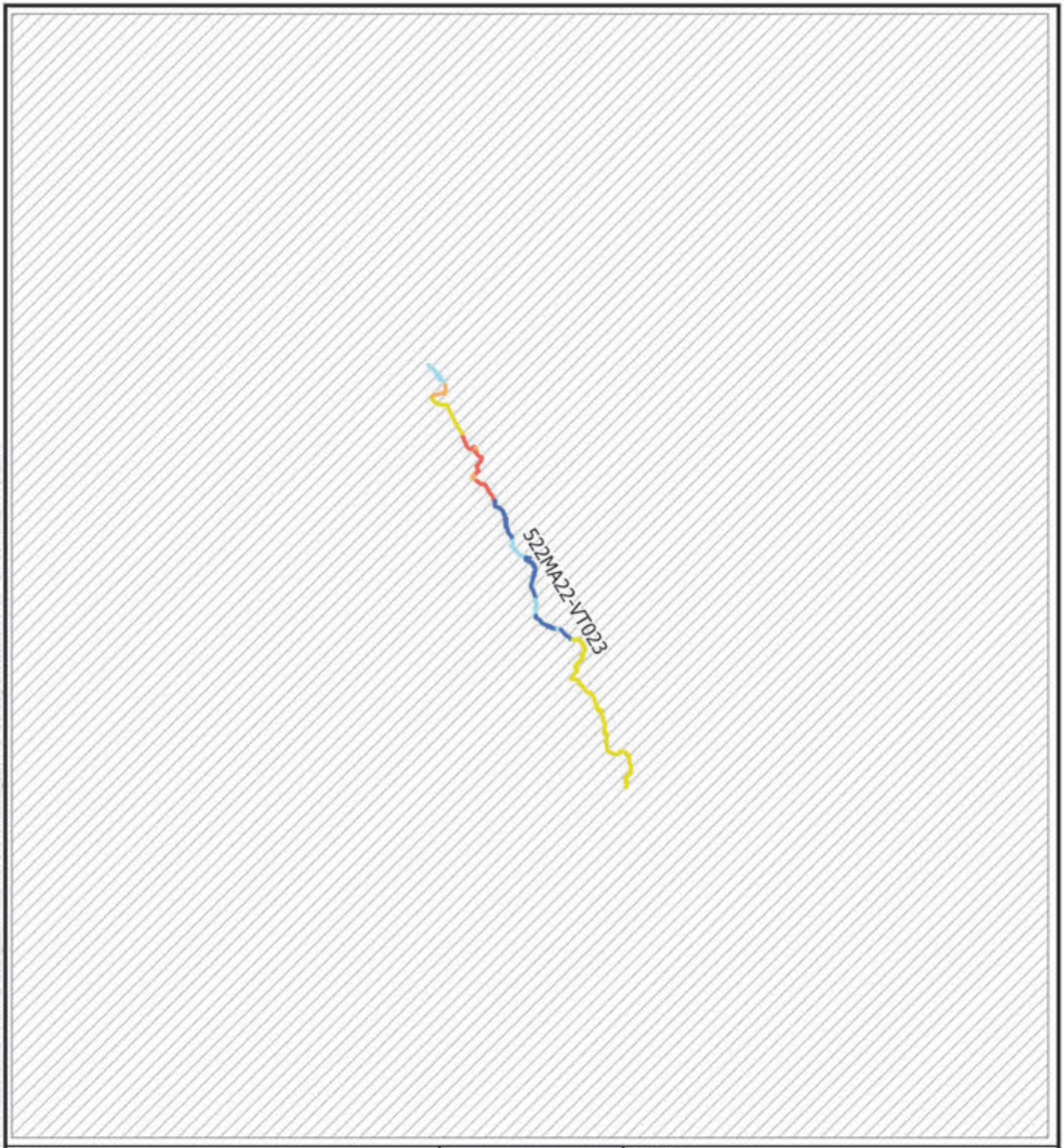
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\ARCMAPS_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

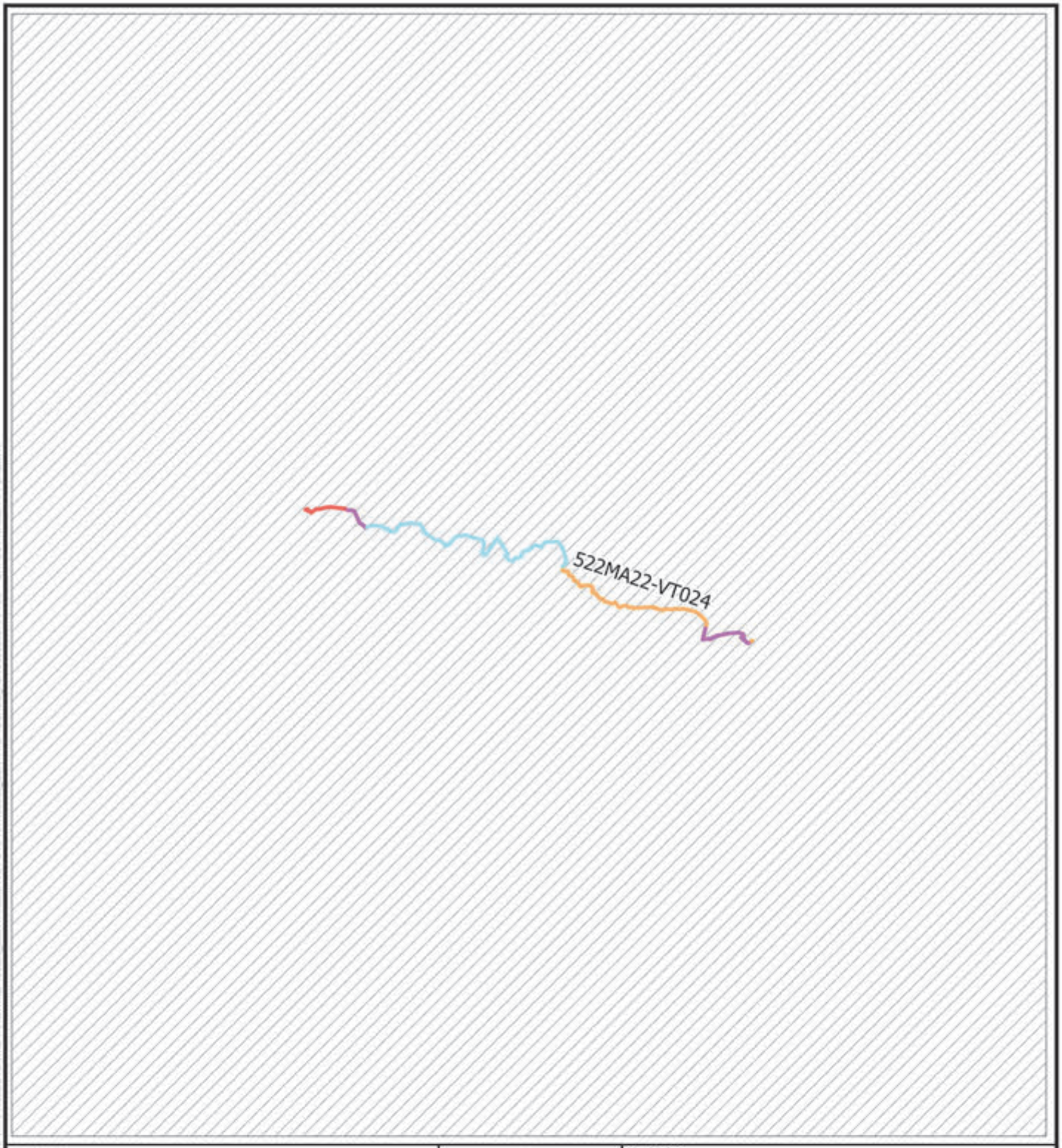
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT023

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARDWIND\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

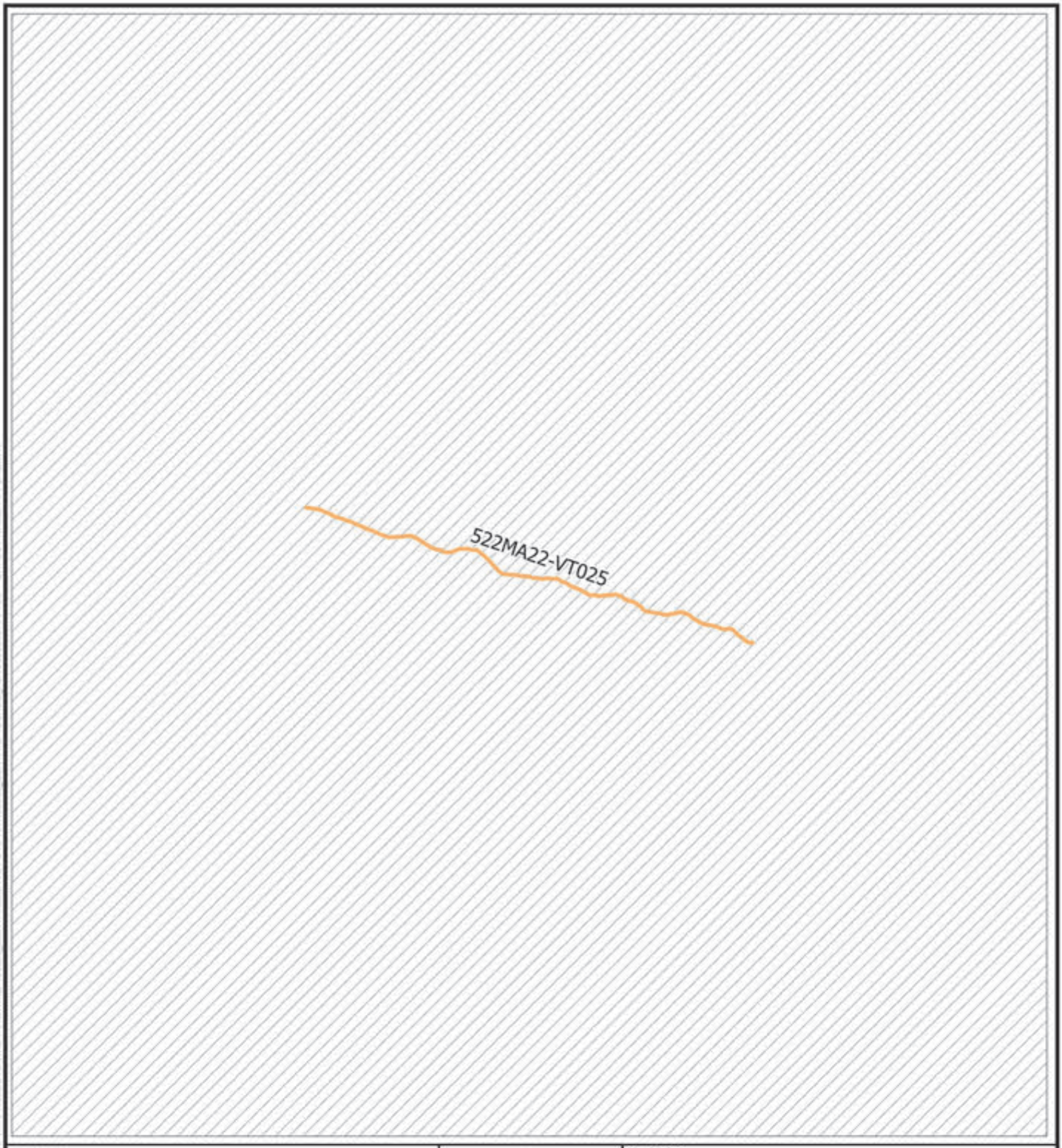
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT024

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

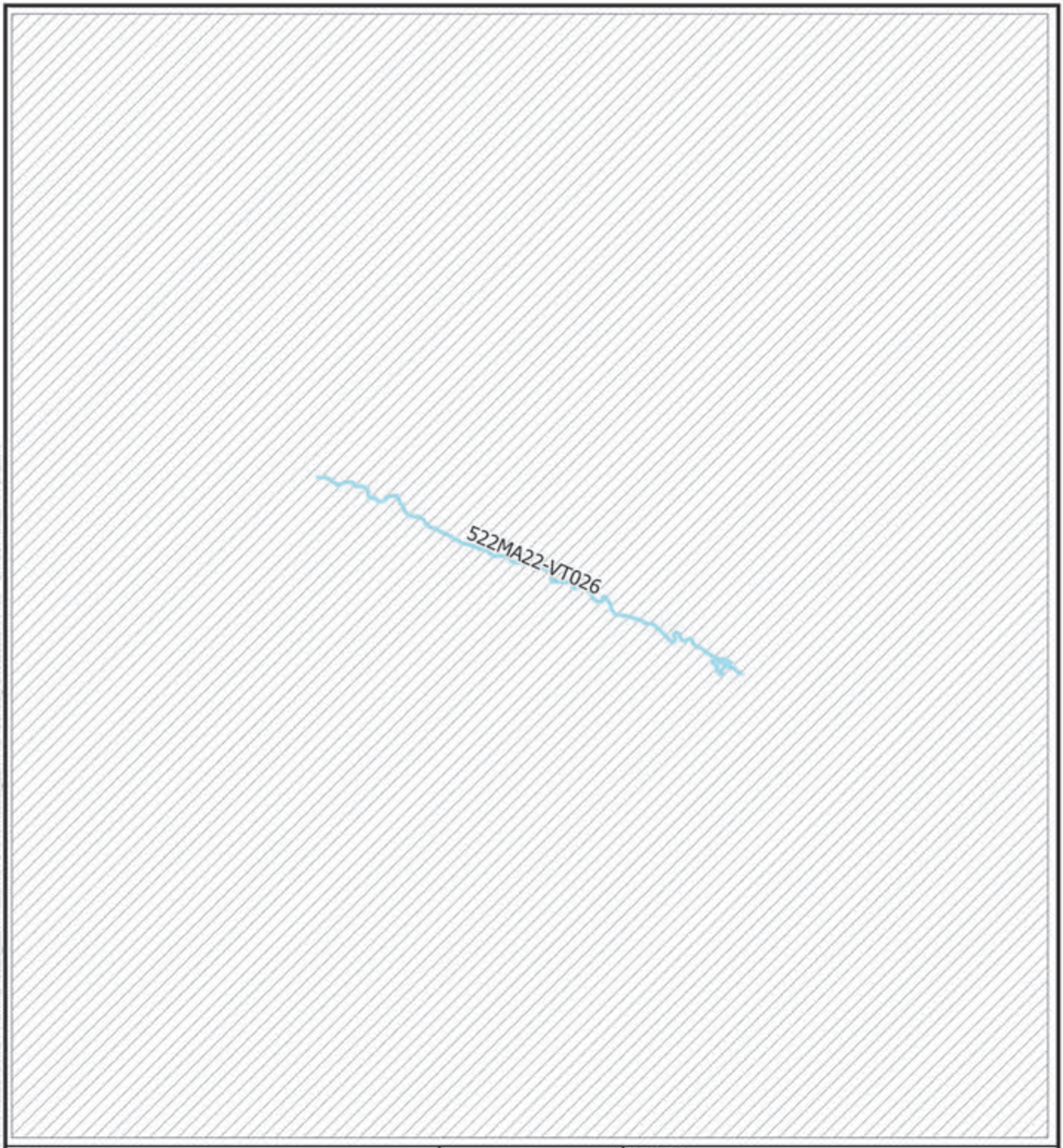
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT025

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAPPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Gravelly

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

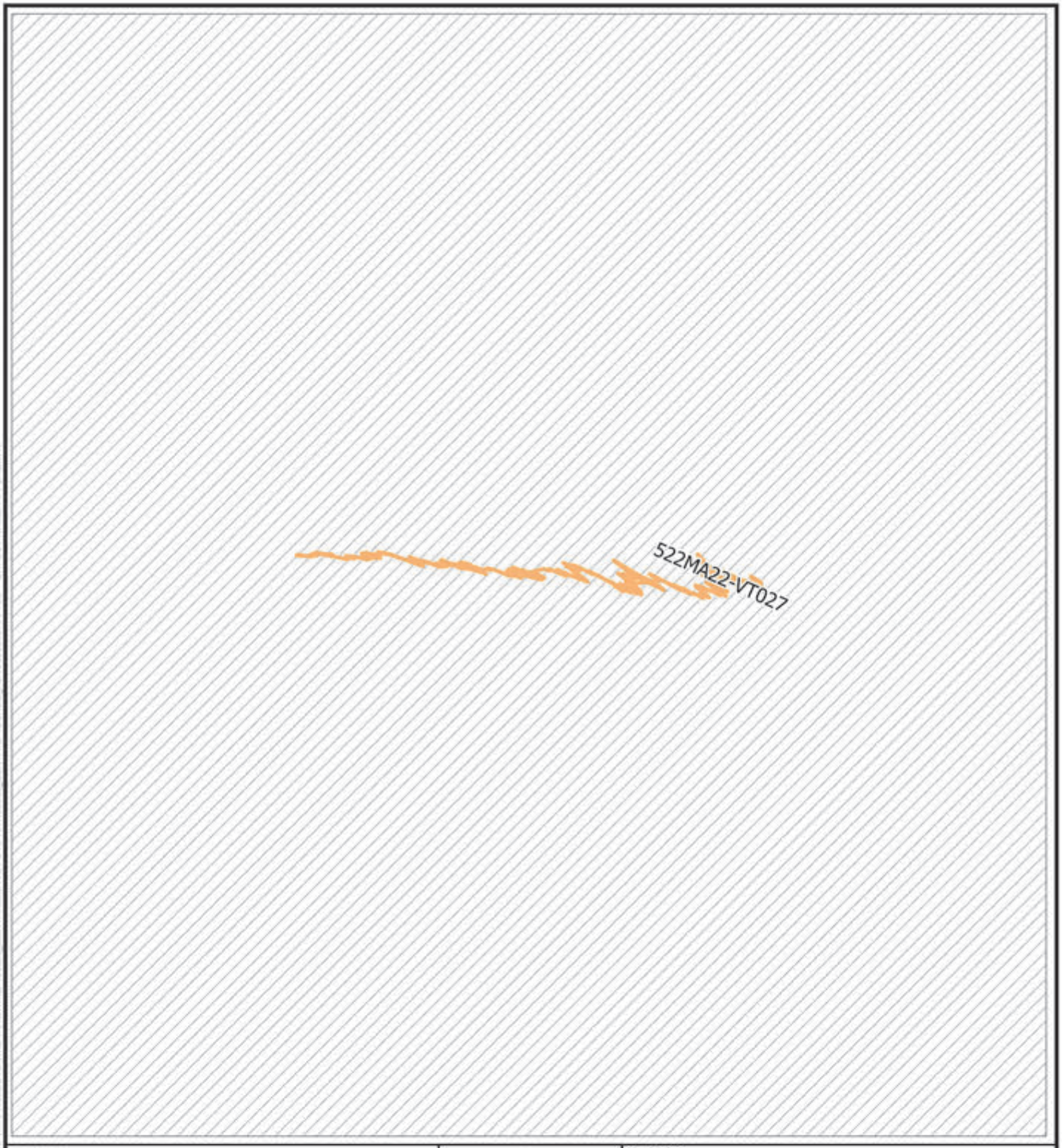
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT026

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT027

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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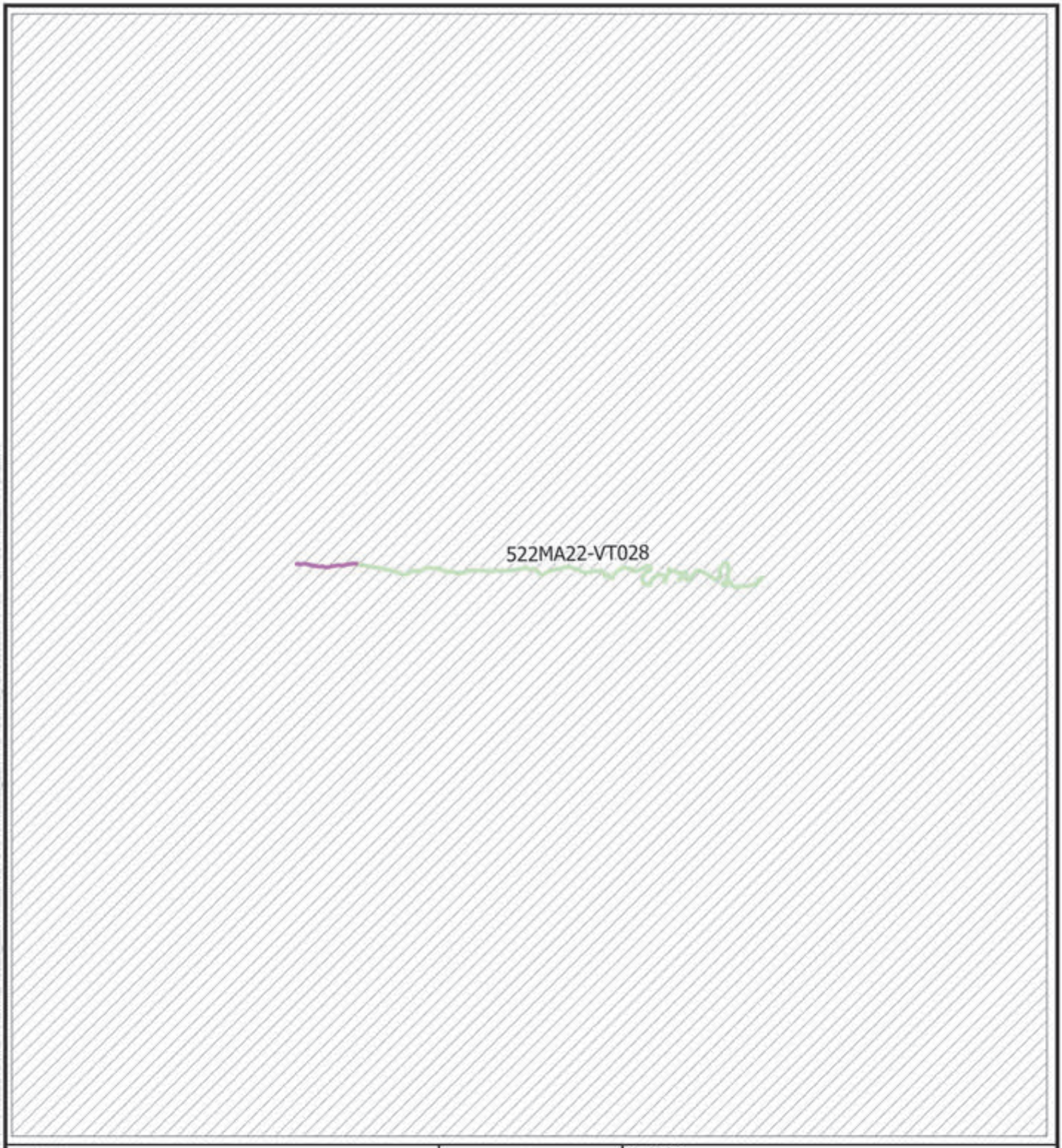


MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

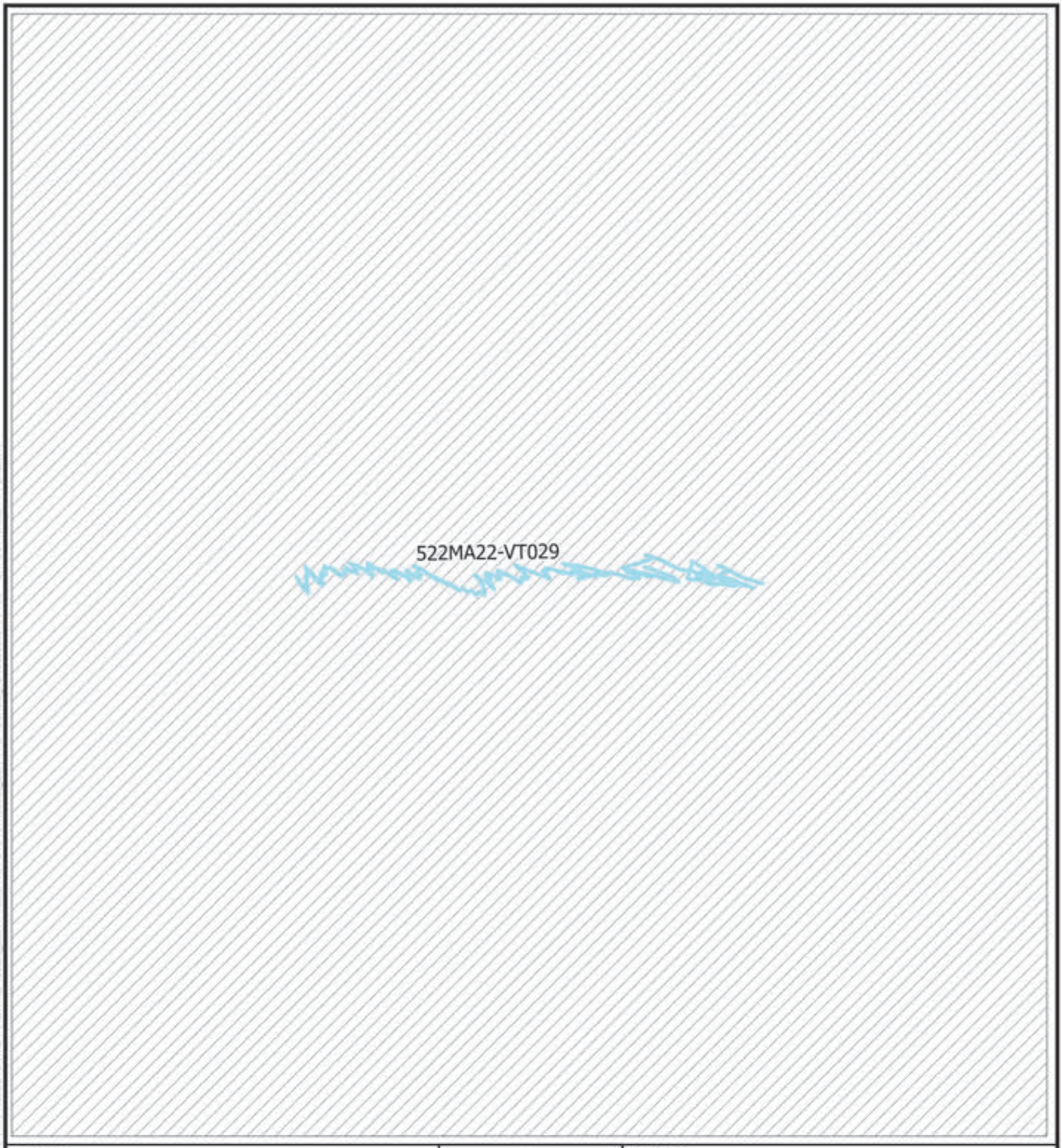
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT028	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Gravelly

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

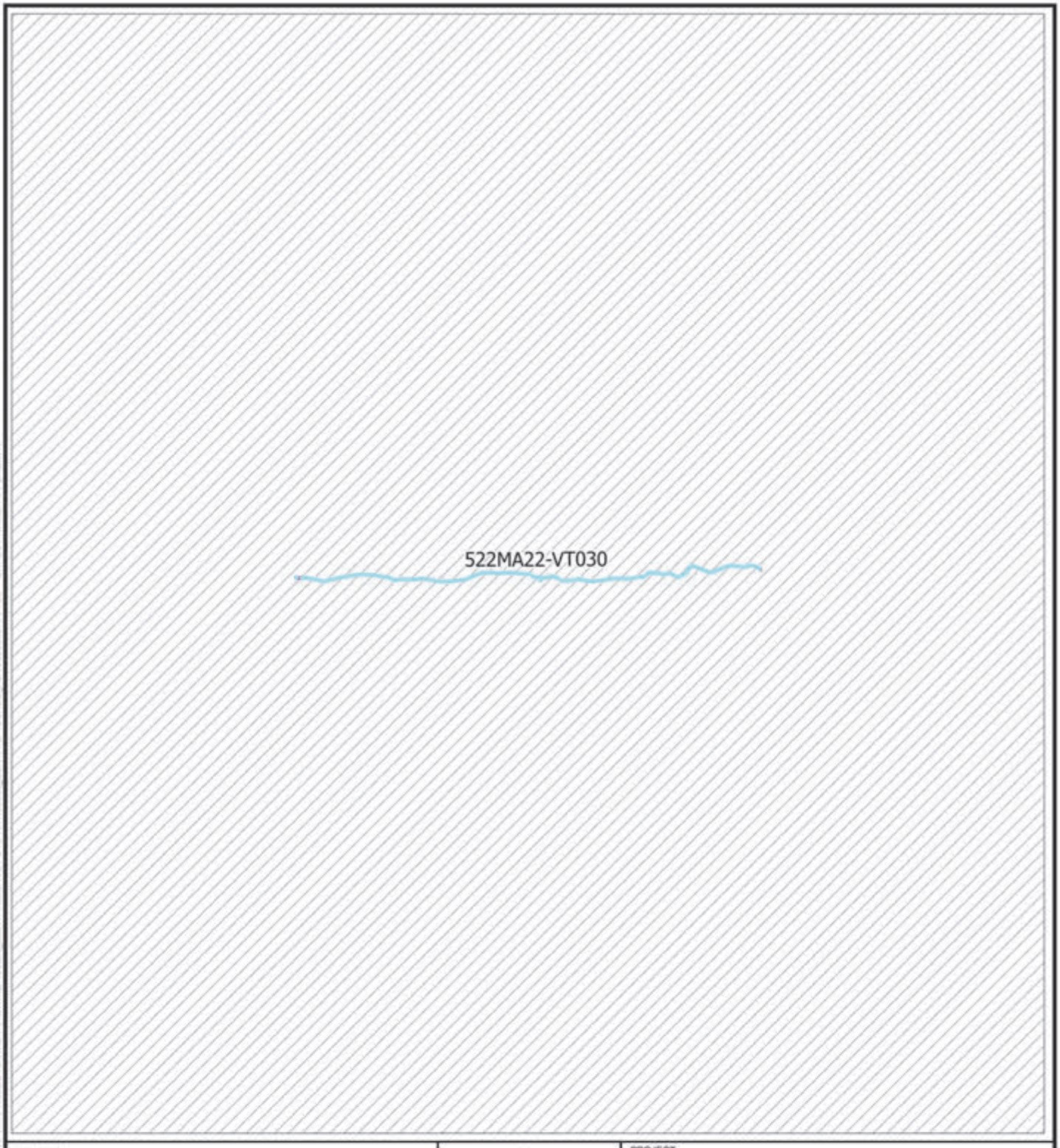
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT029

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYERS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

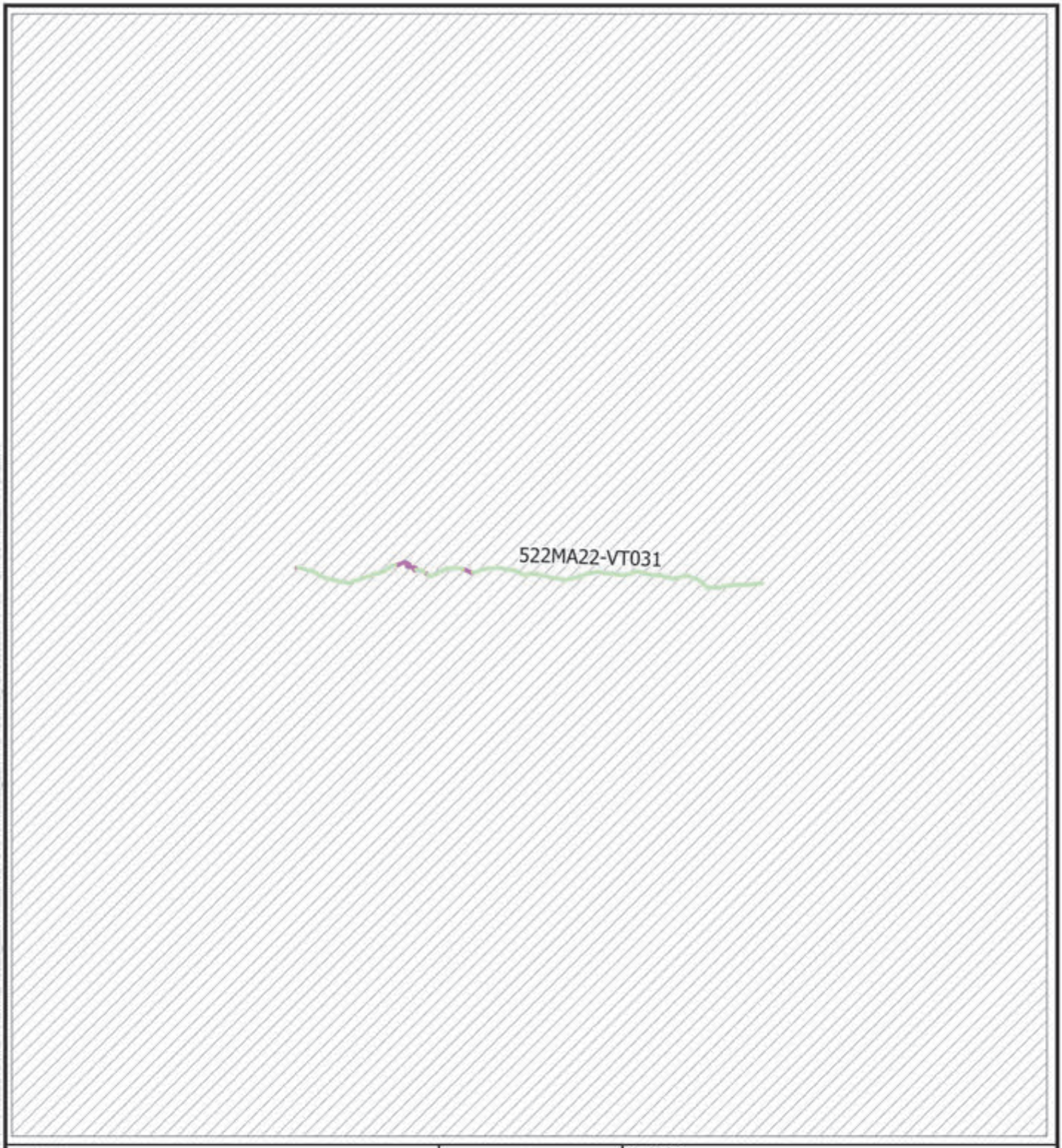
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT030

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

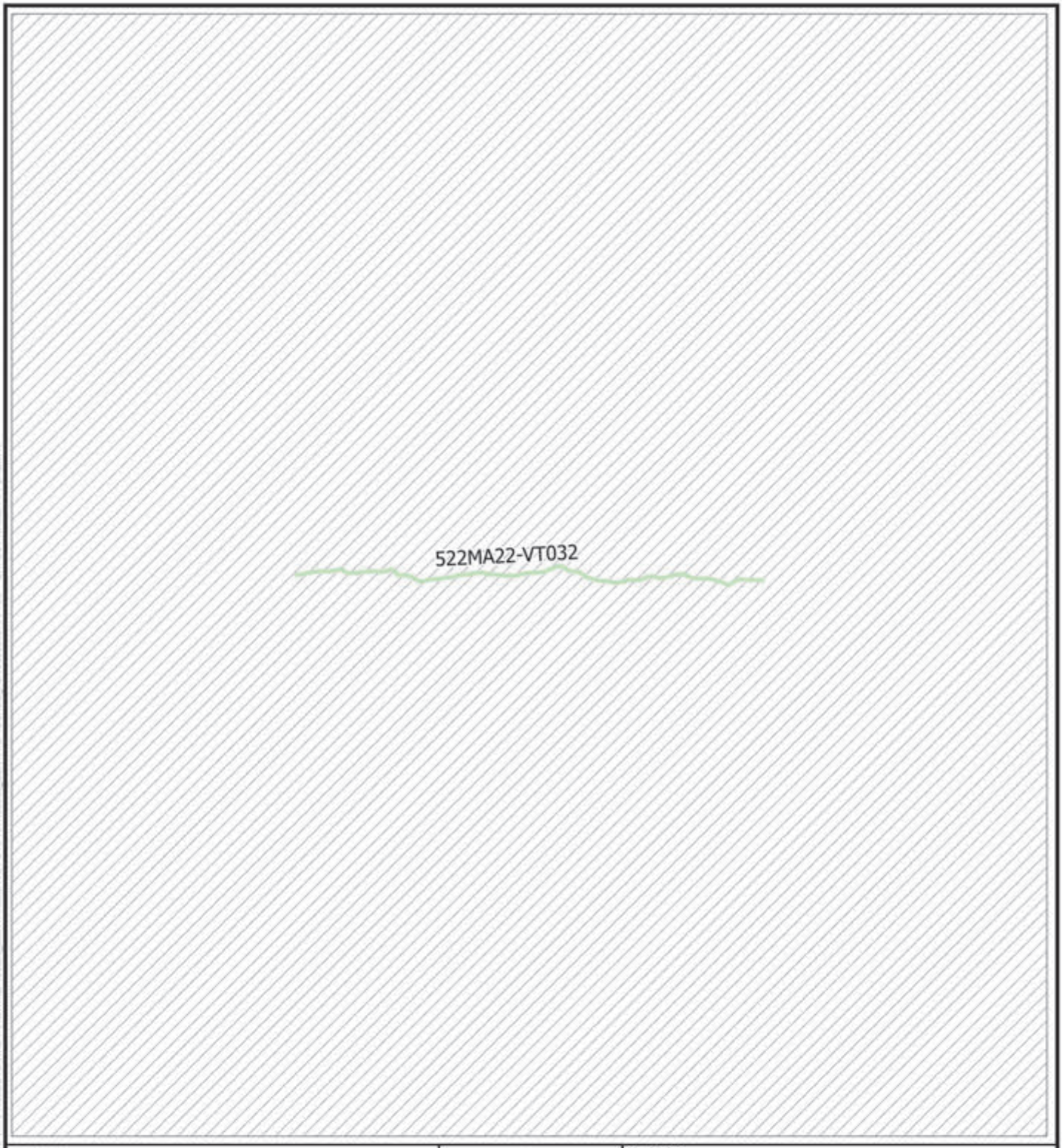
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT031

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

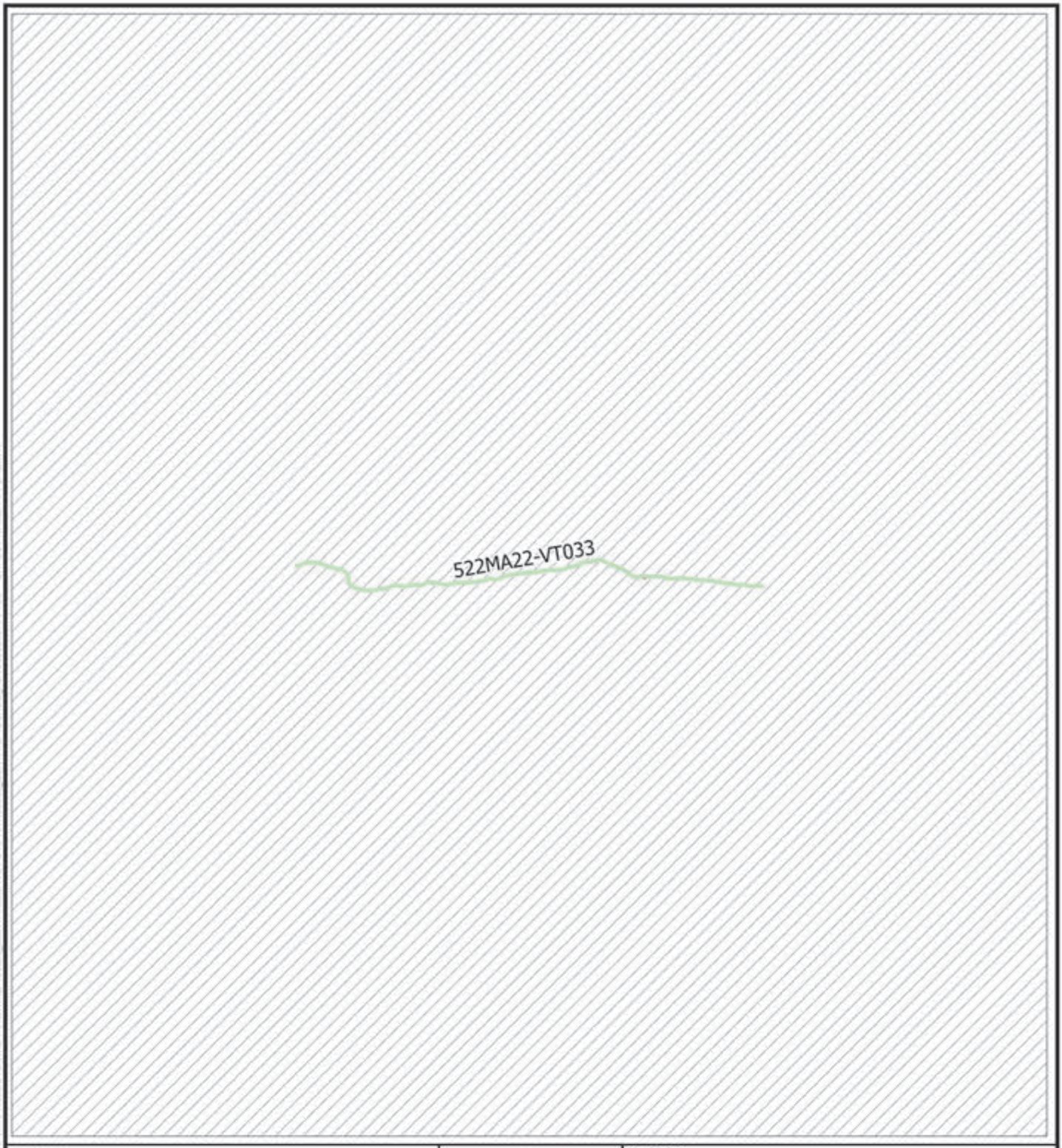
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT032	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT033

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

MA Offshore Export Cable Corridor
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

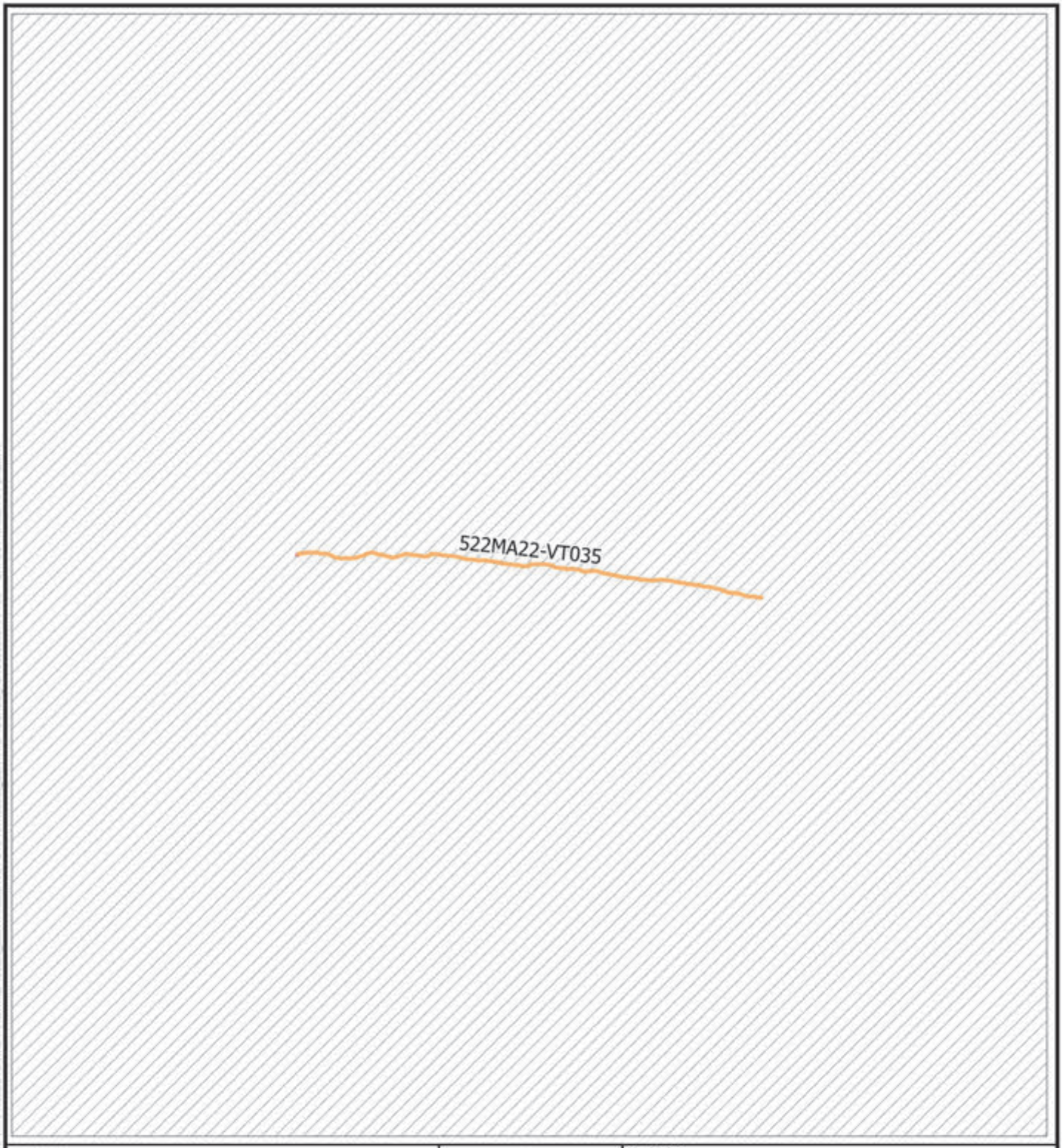
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT034

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

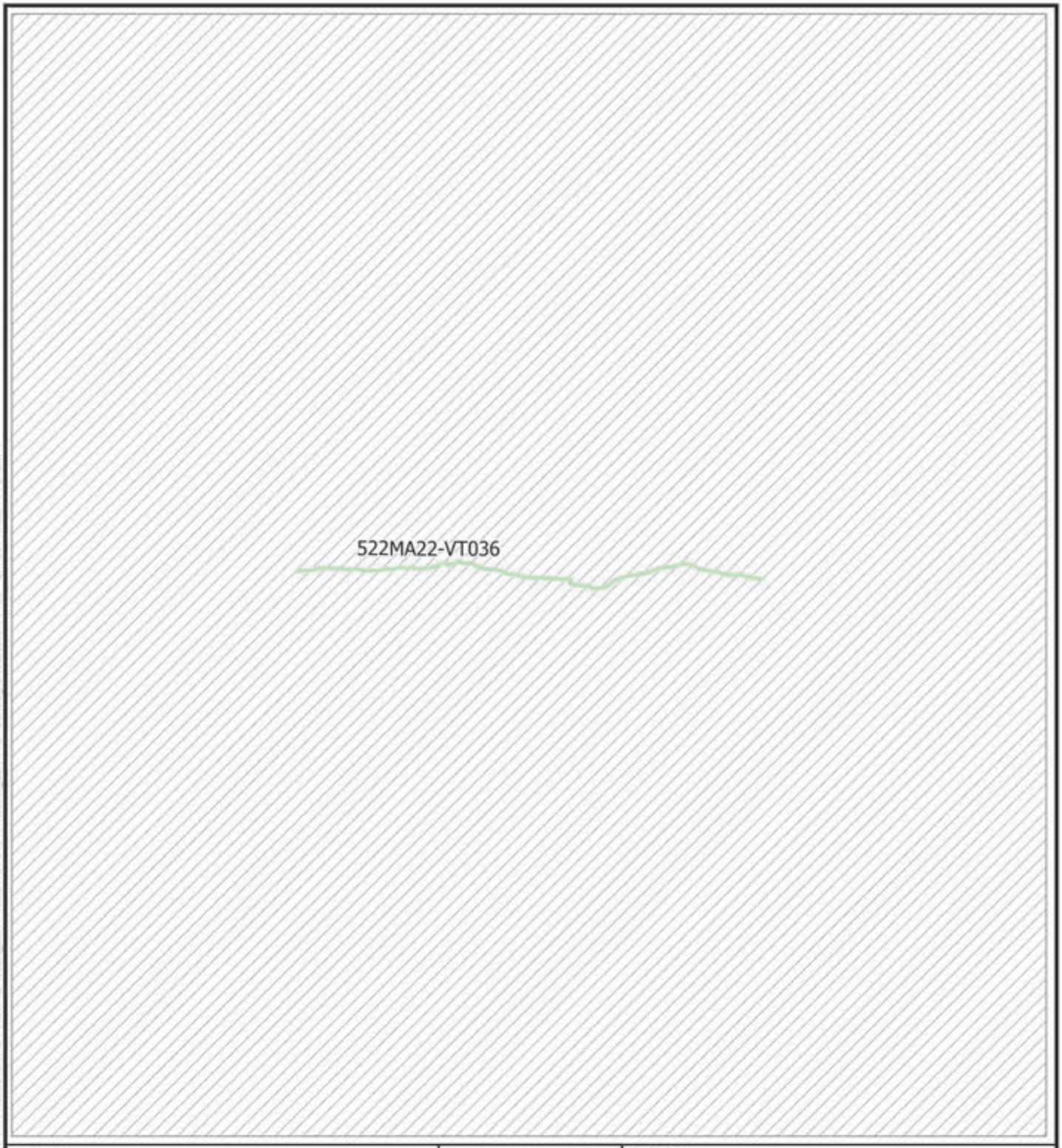
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT035

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

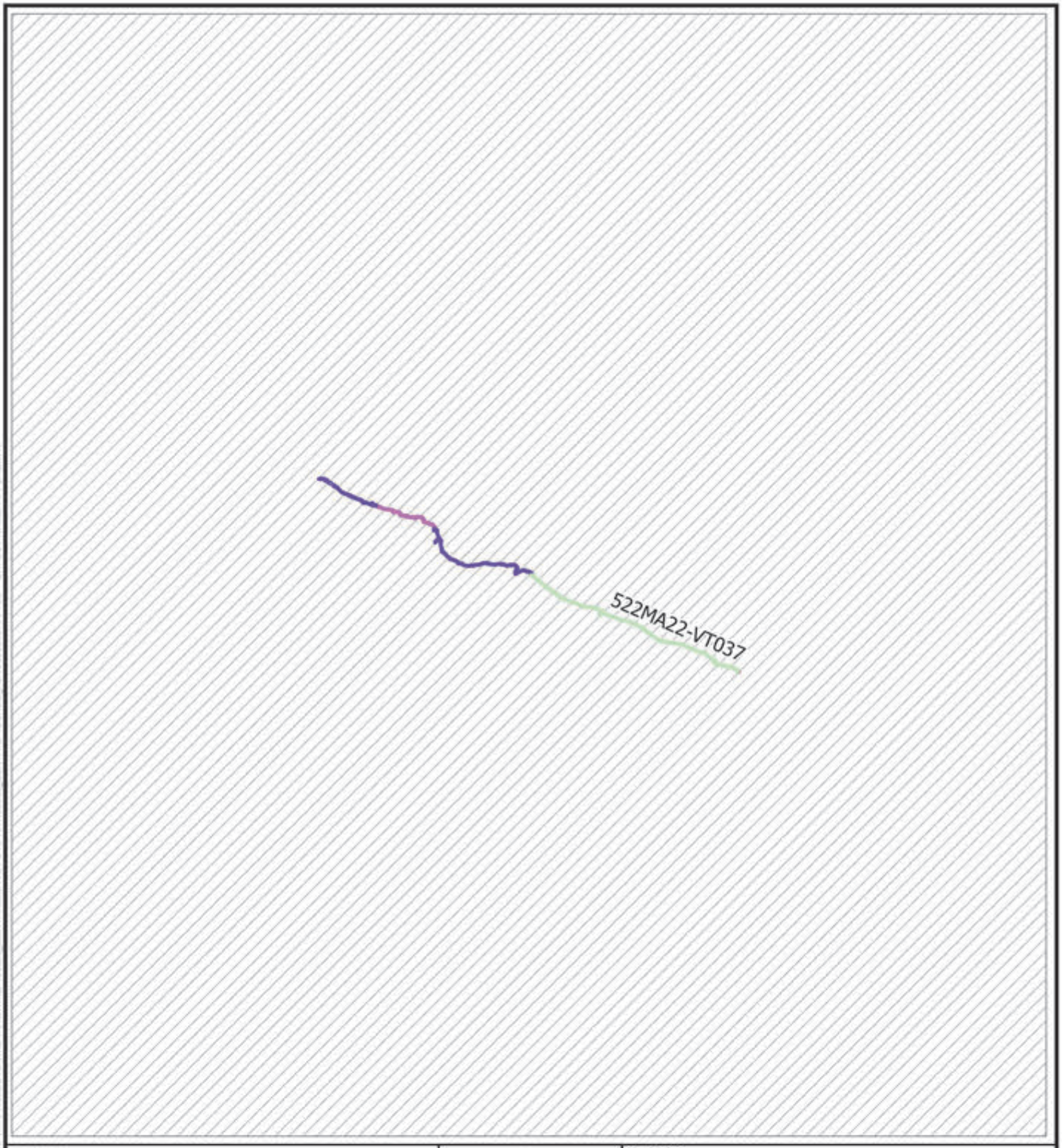
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT036

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICSURVEY\LAYOUT\BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

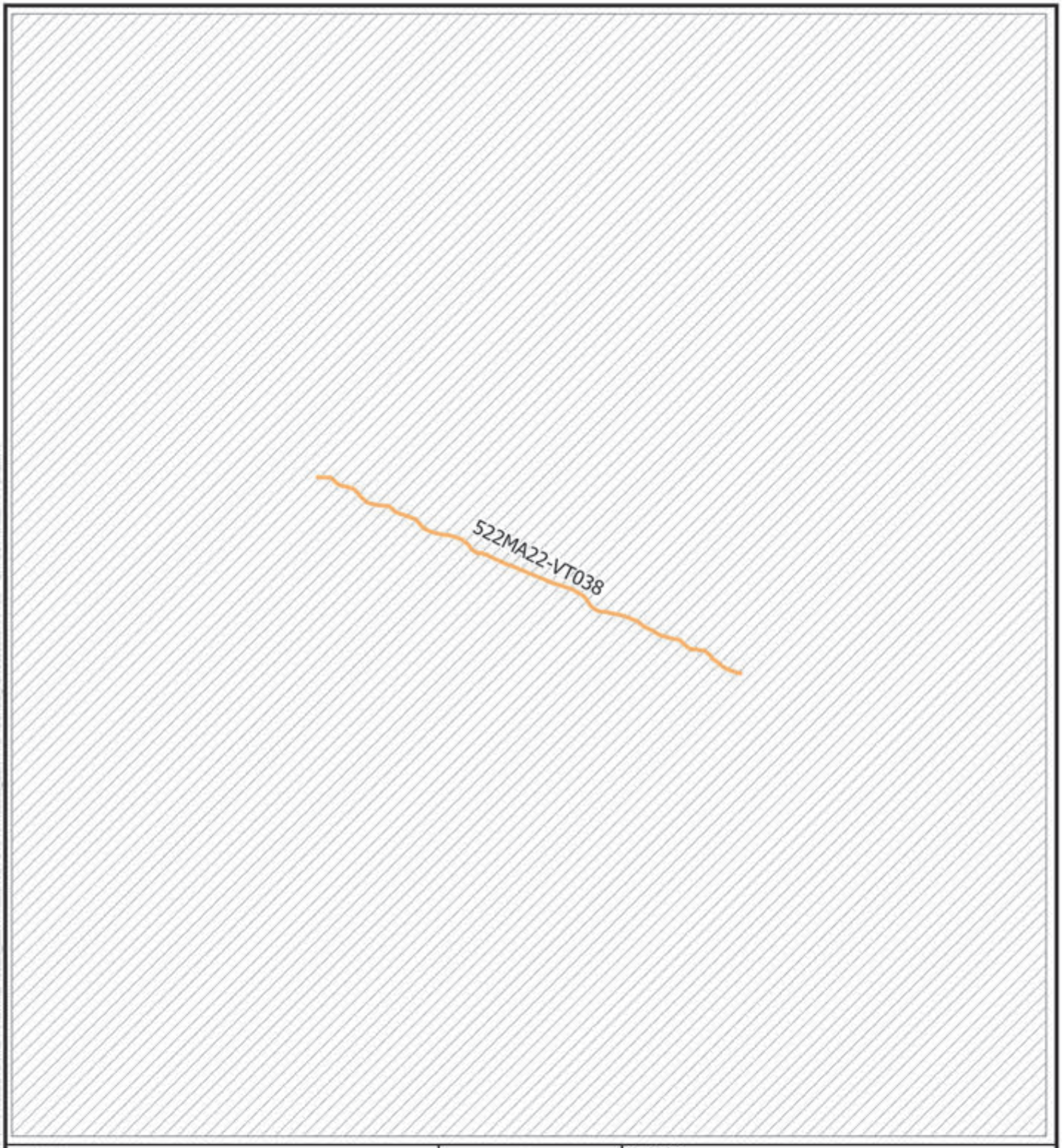
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT037

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:27:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

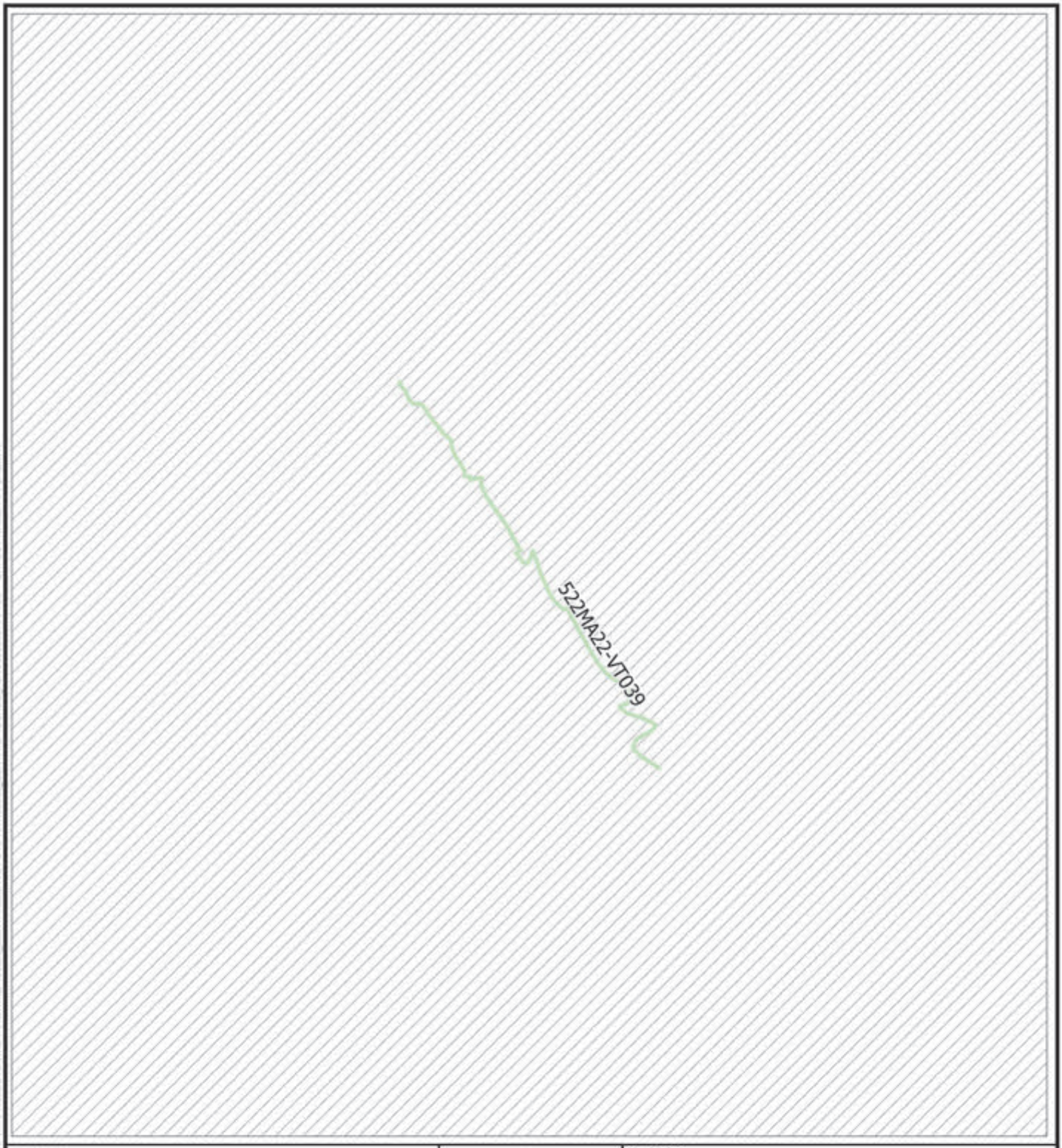
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT038

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

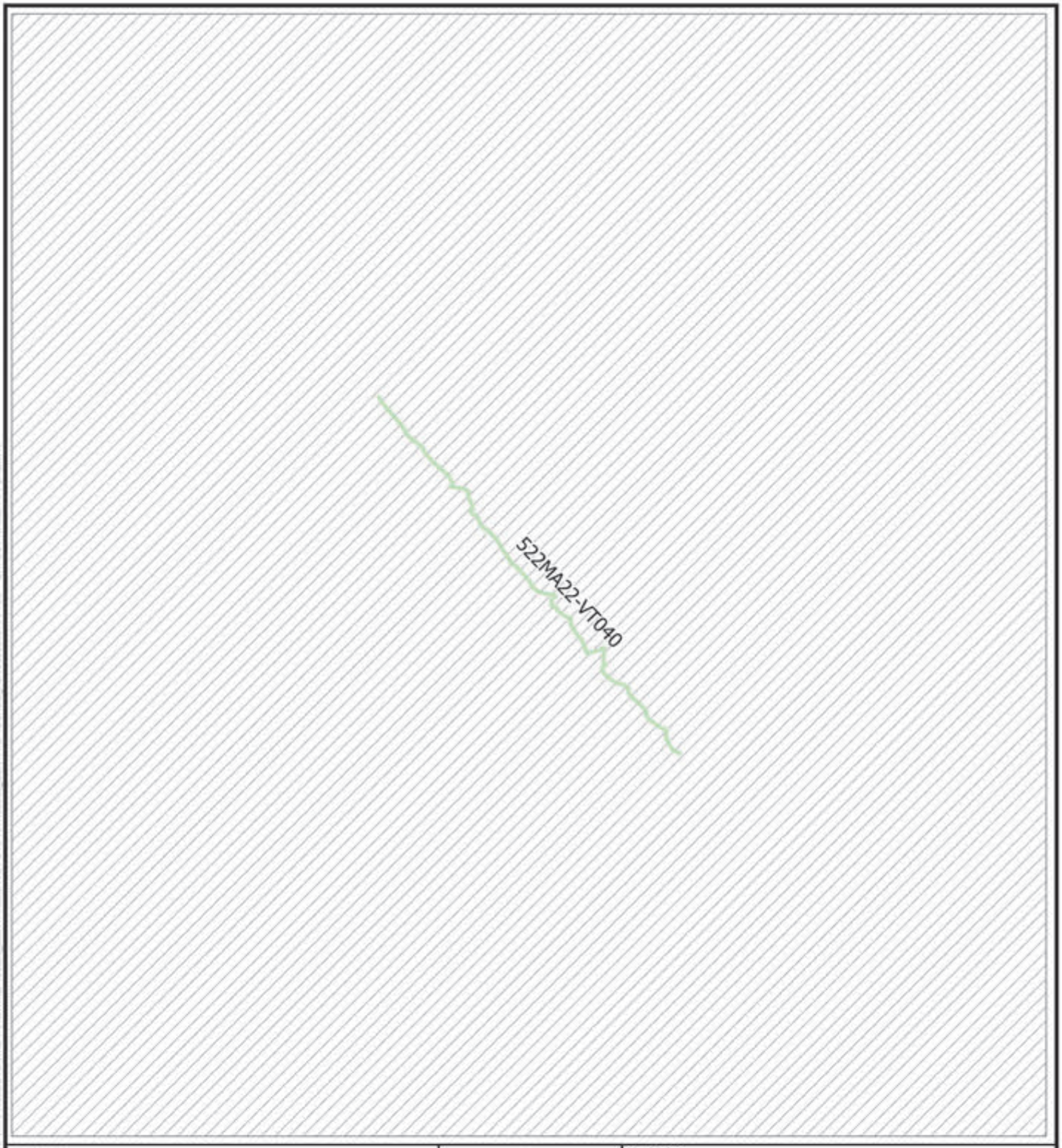
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT039

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

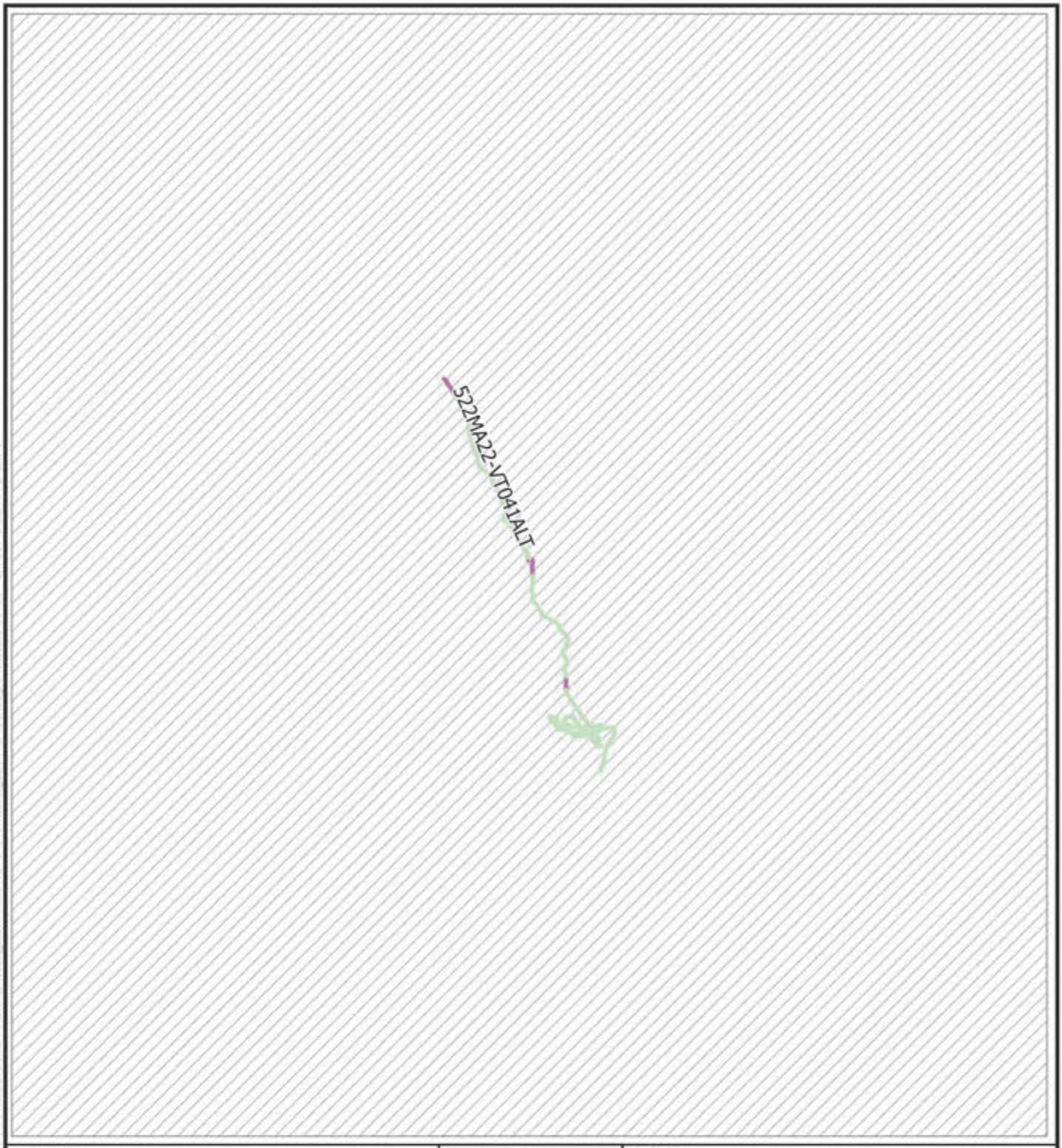
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT040	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYER\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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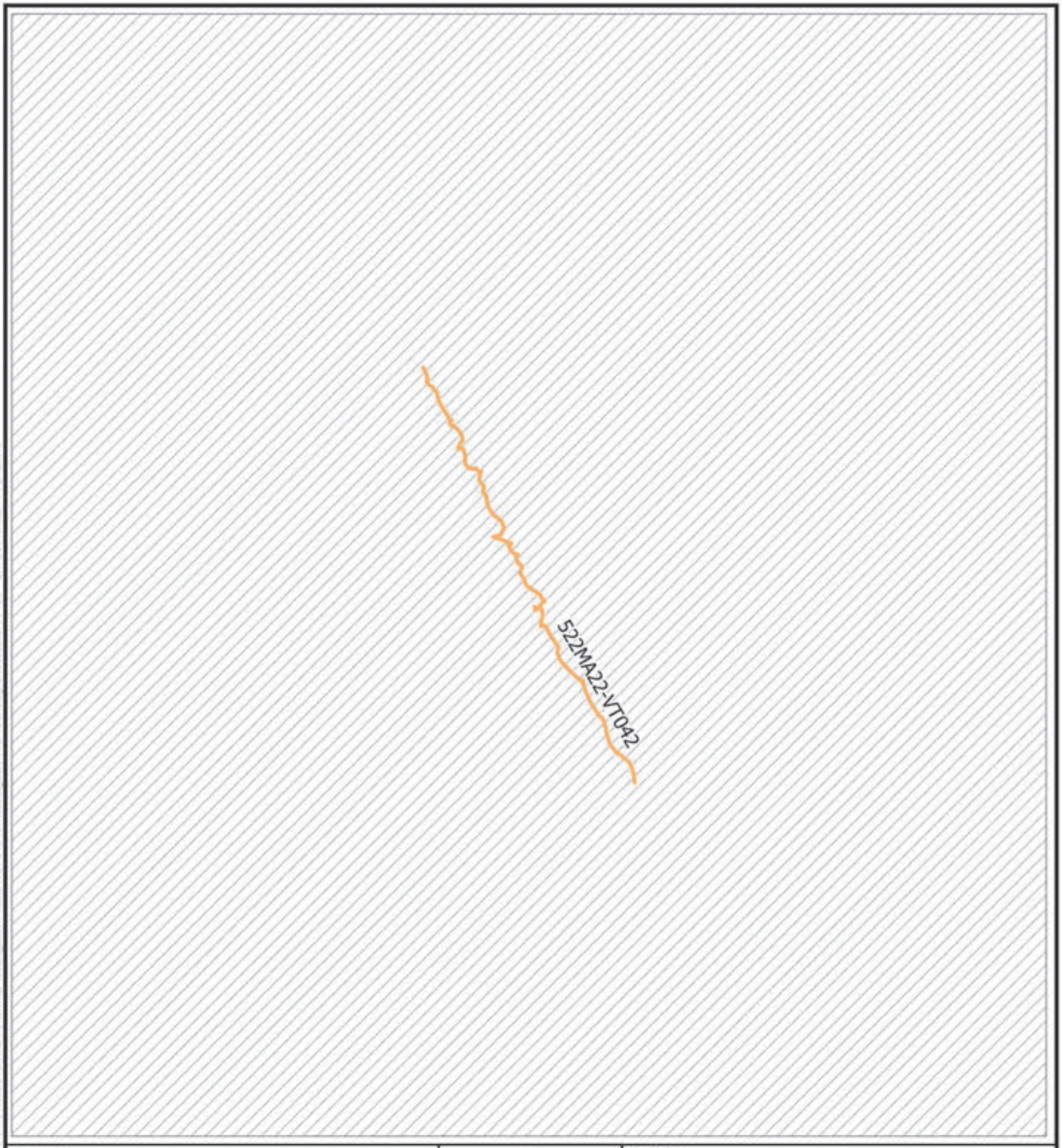

MA Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT042

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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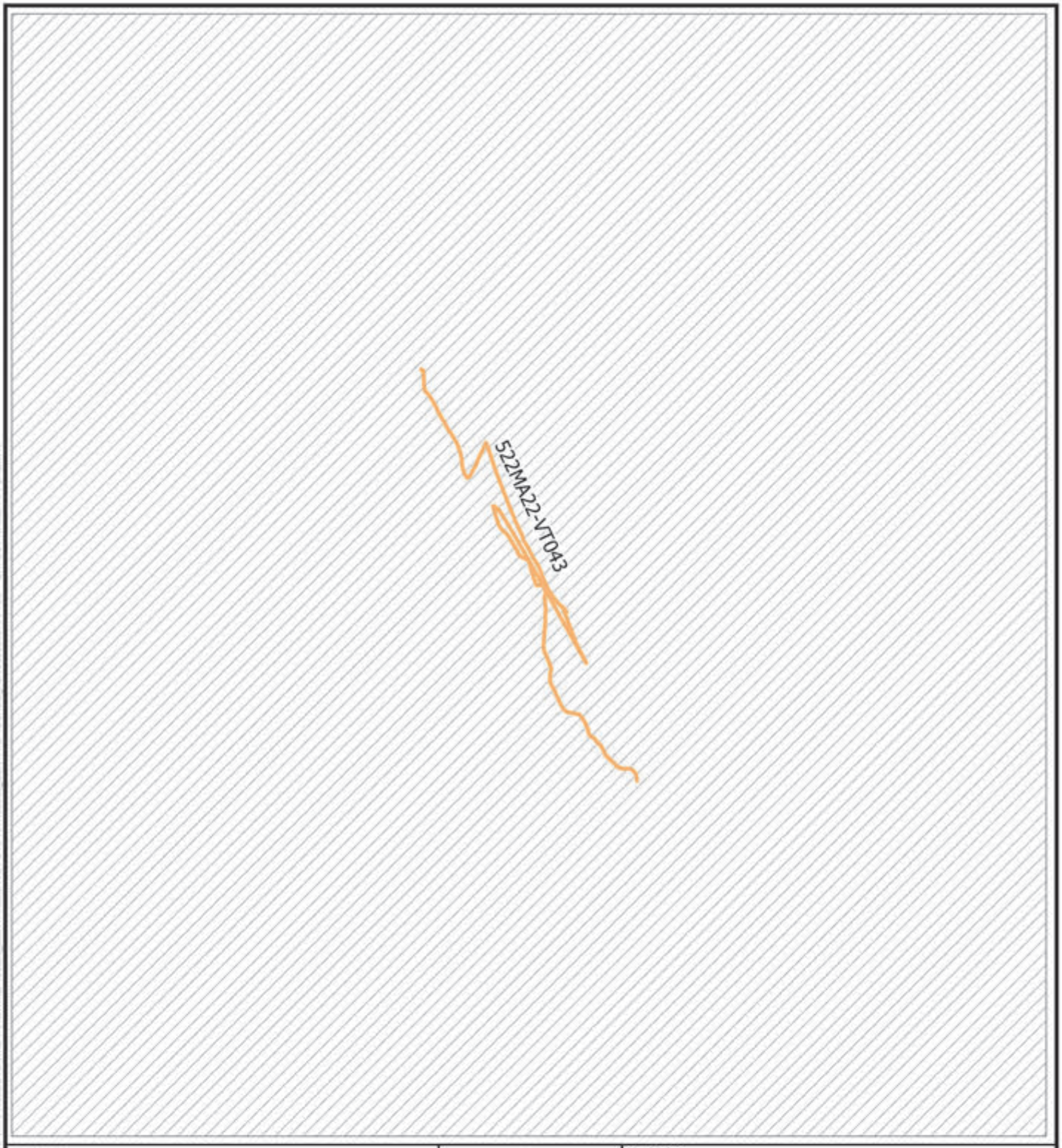


MA Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

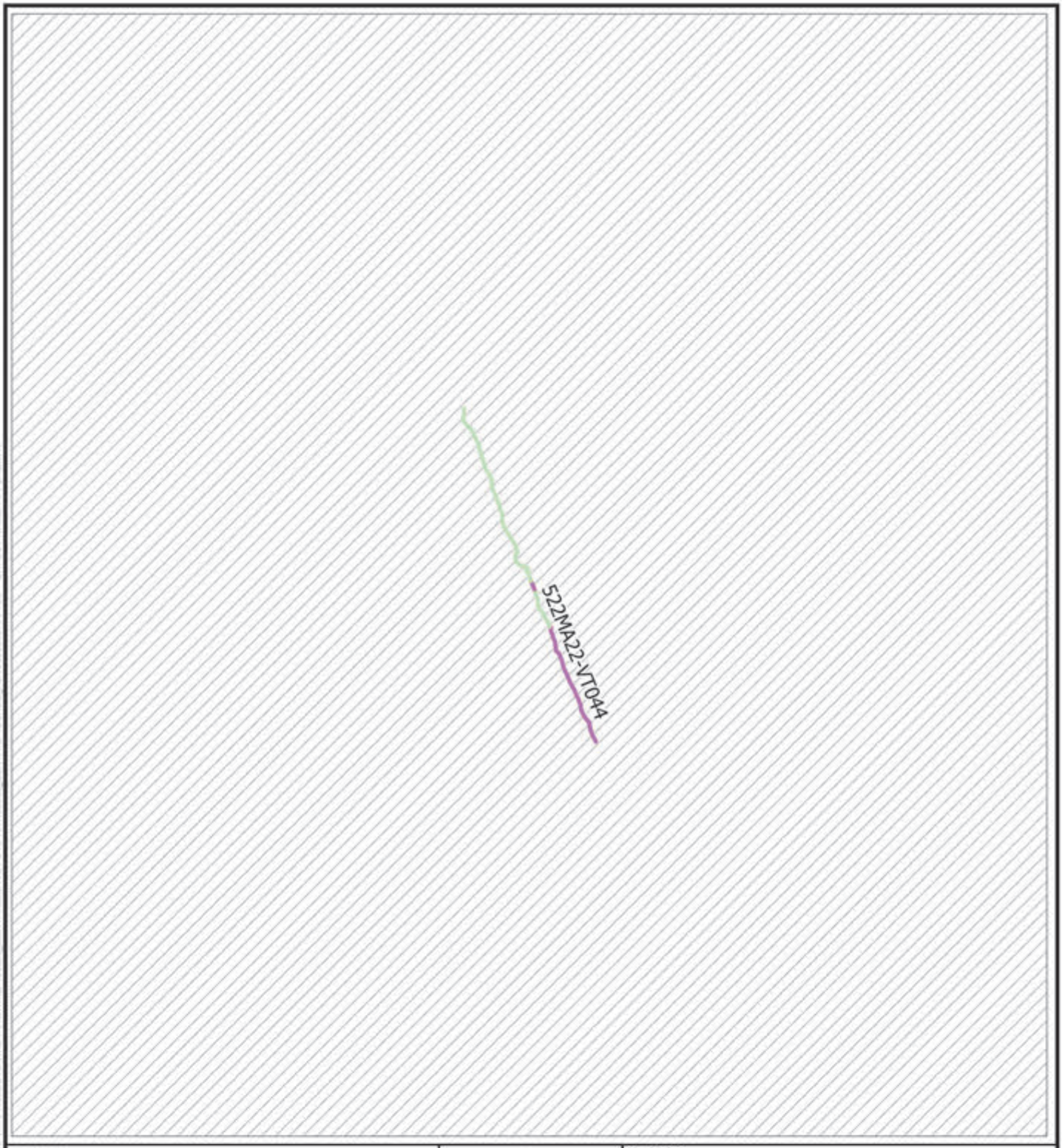
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT043

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_O\BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

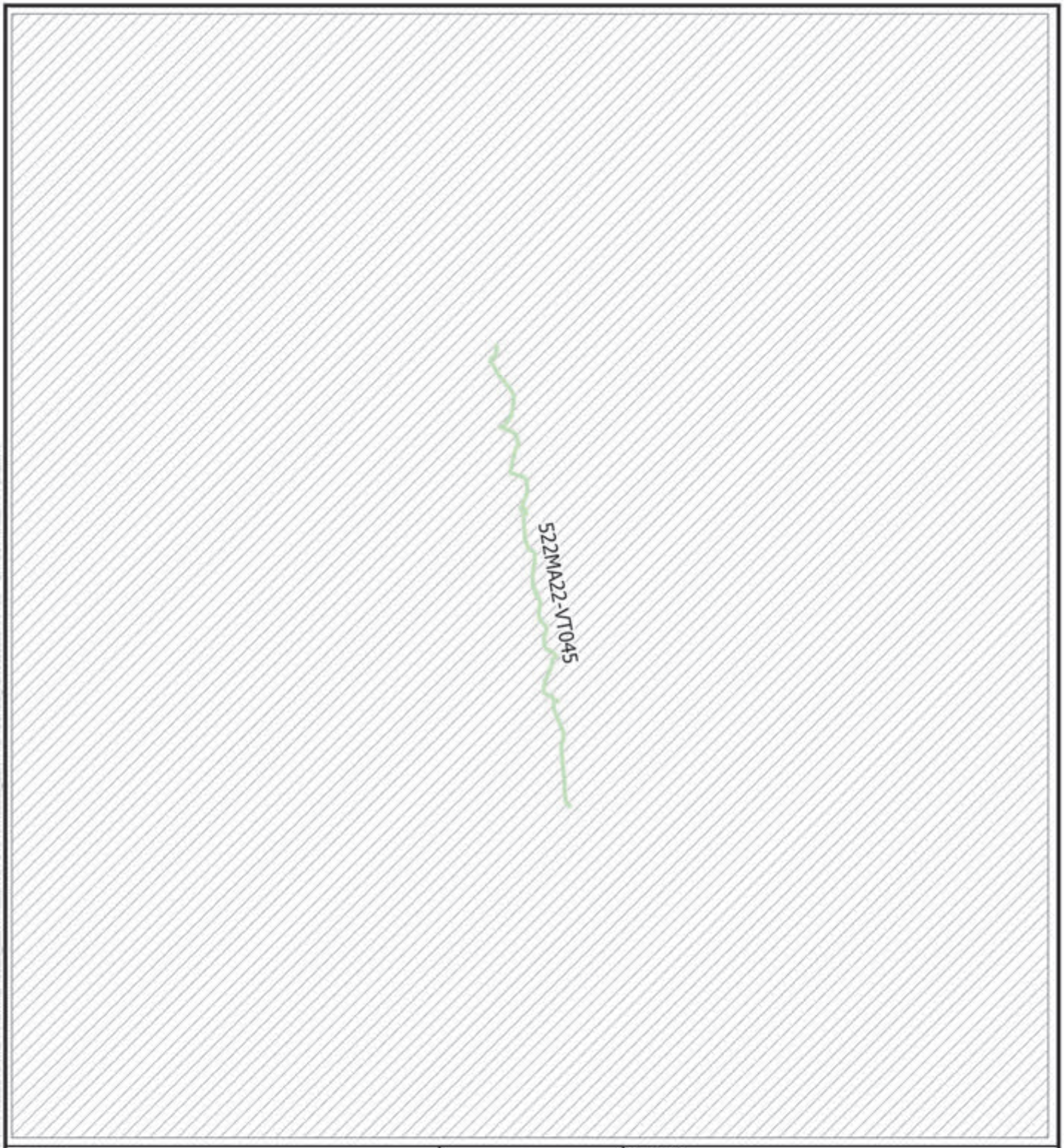
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT044	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAREACHANGE_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: LAYER(4)



MA Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT045	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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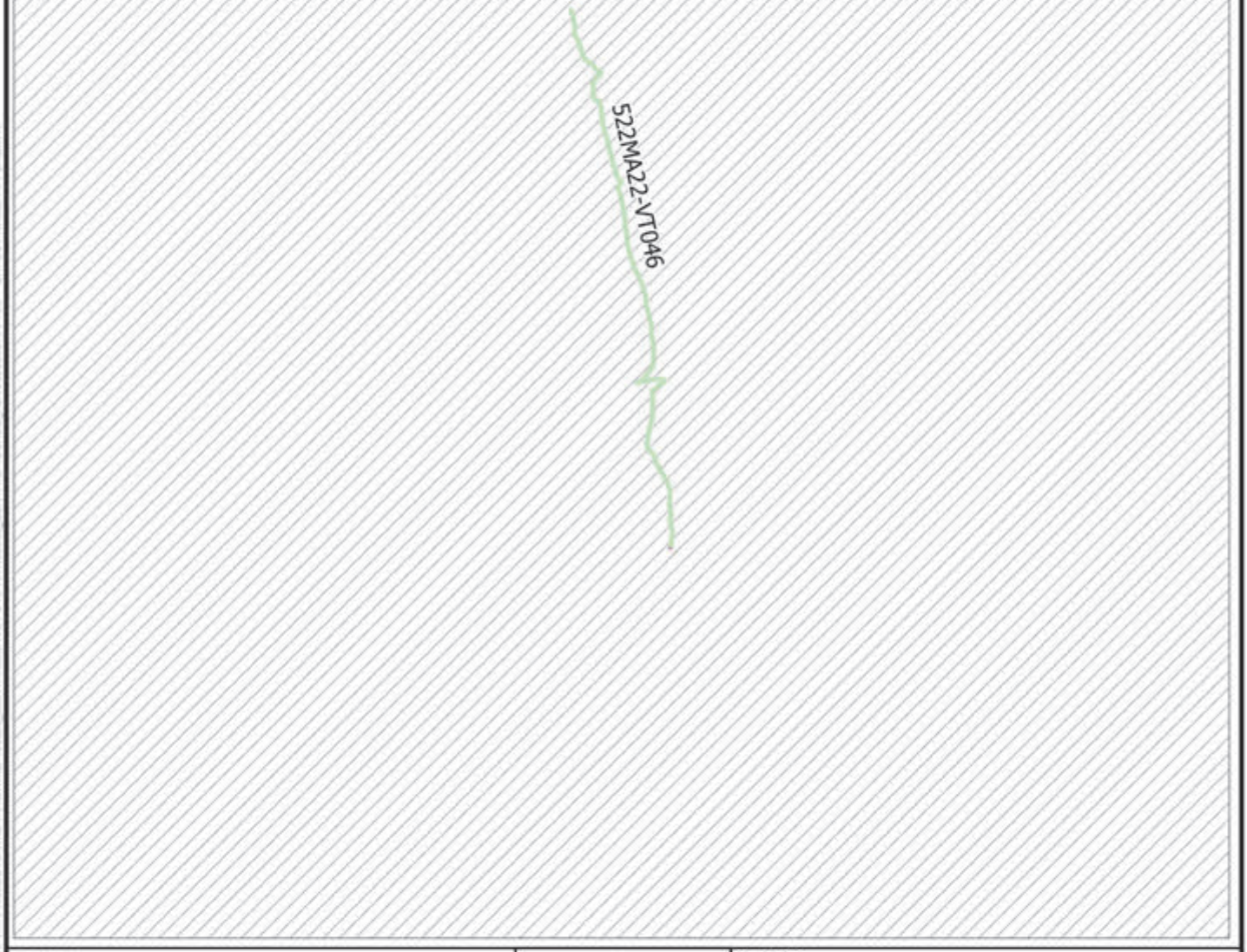


MA Offshore Export Cable Corridor

Muddy Sand

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

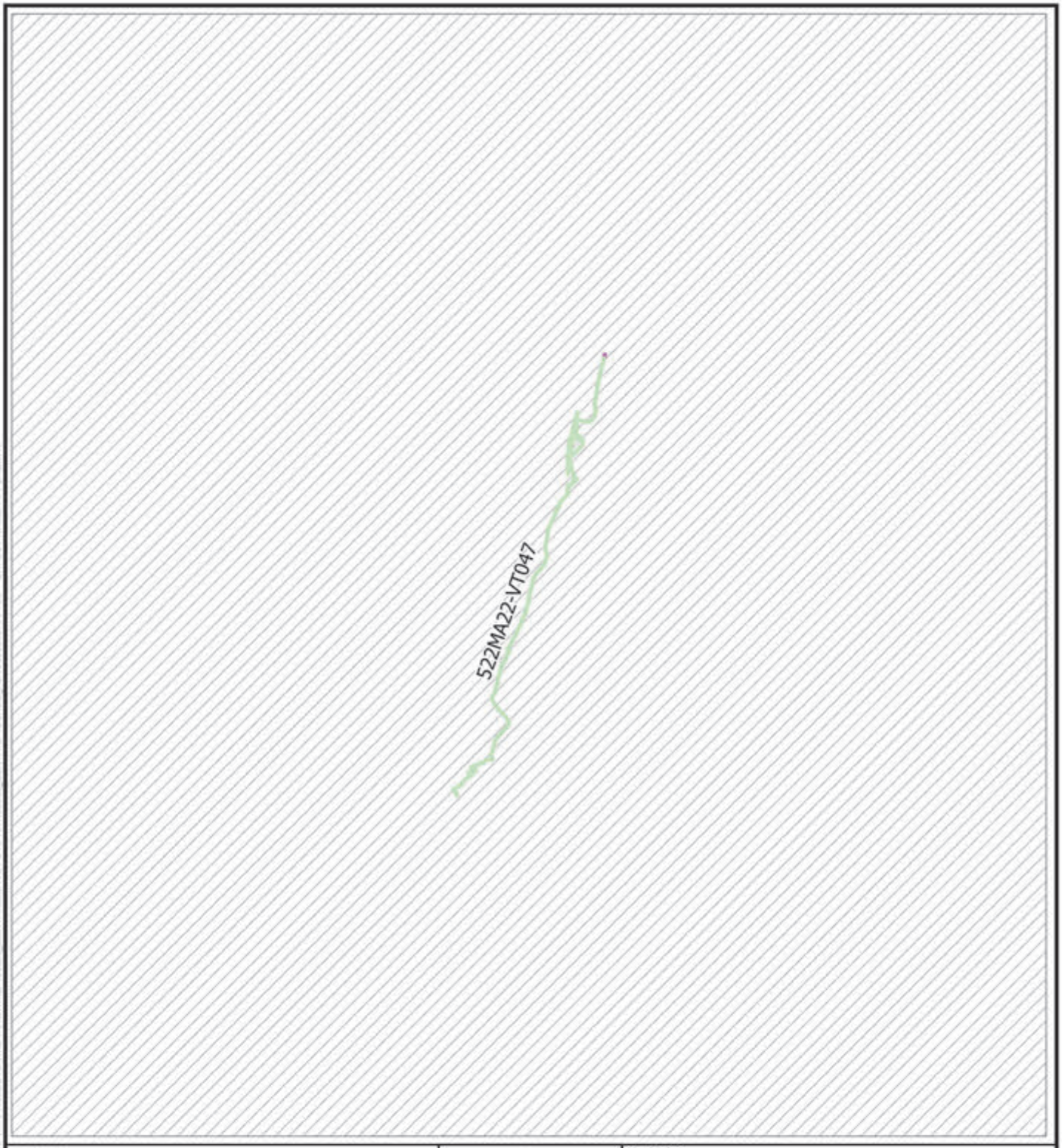
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT046

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

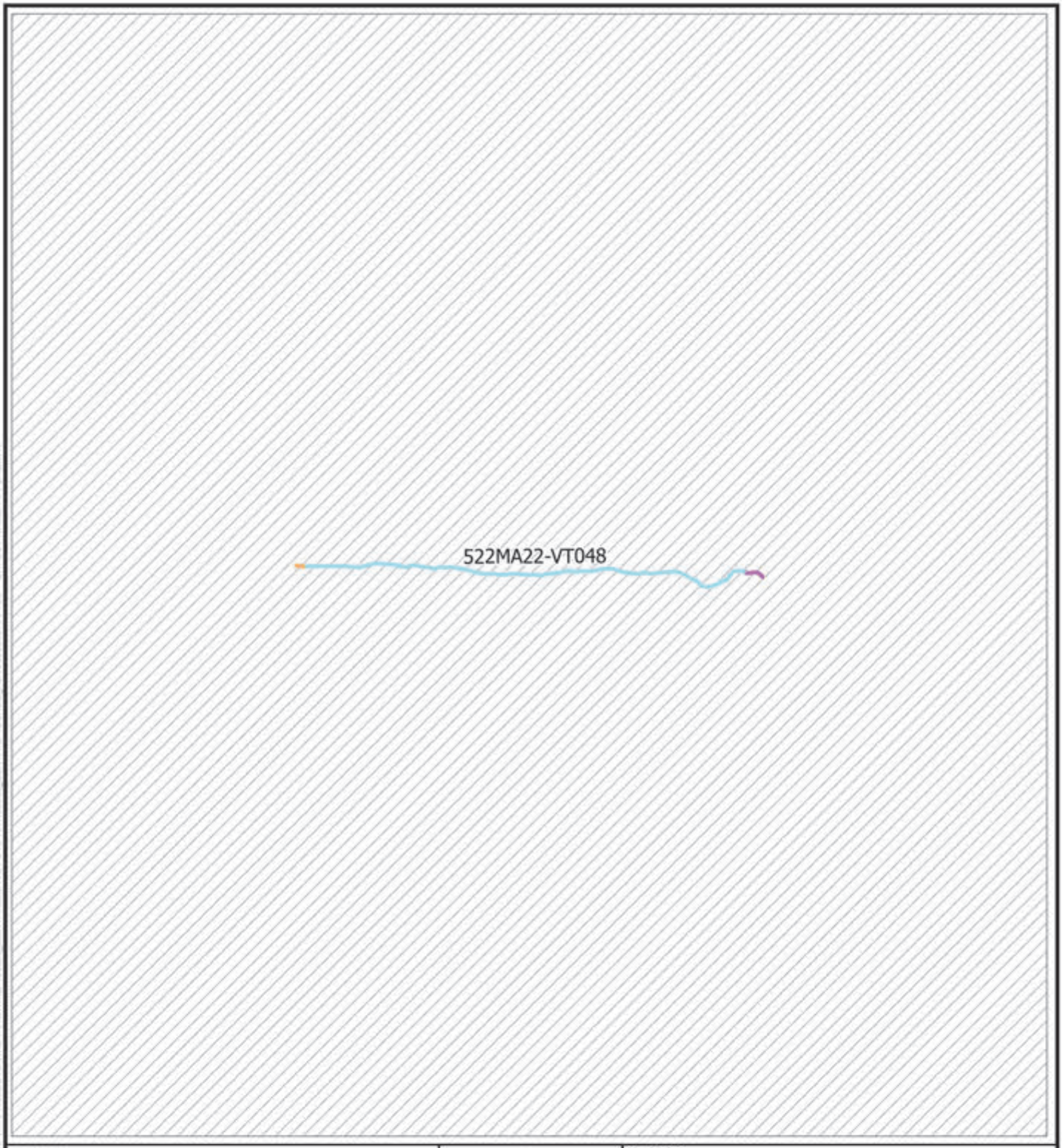
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT047

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

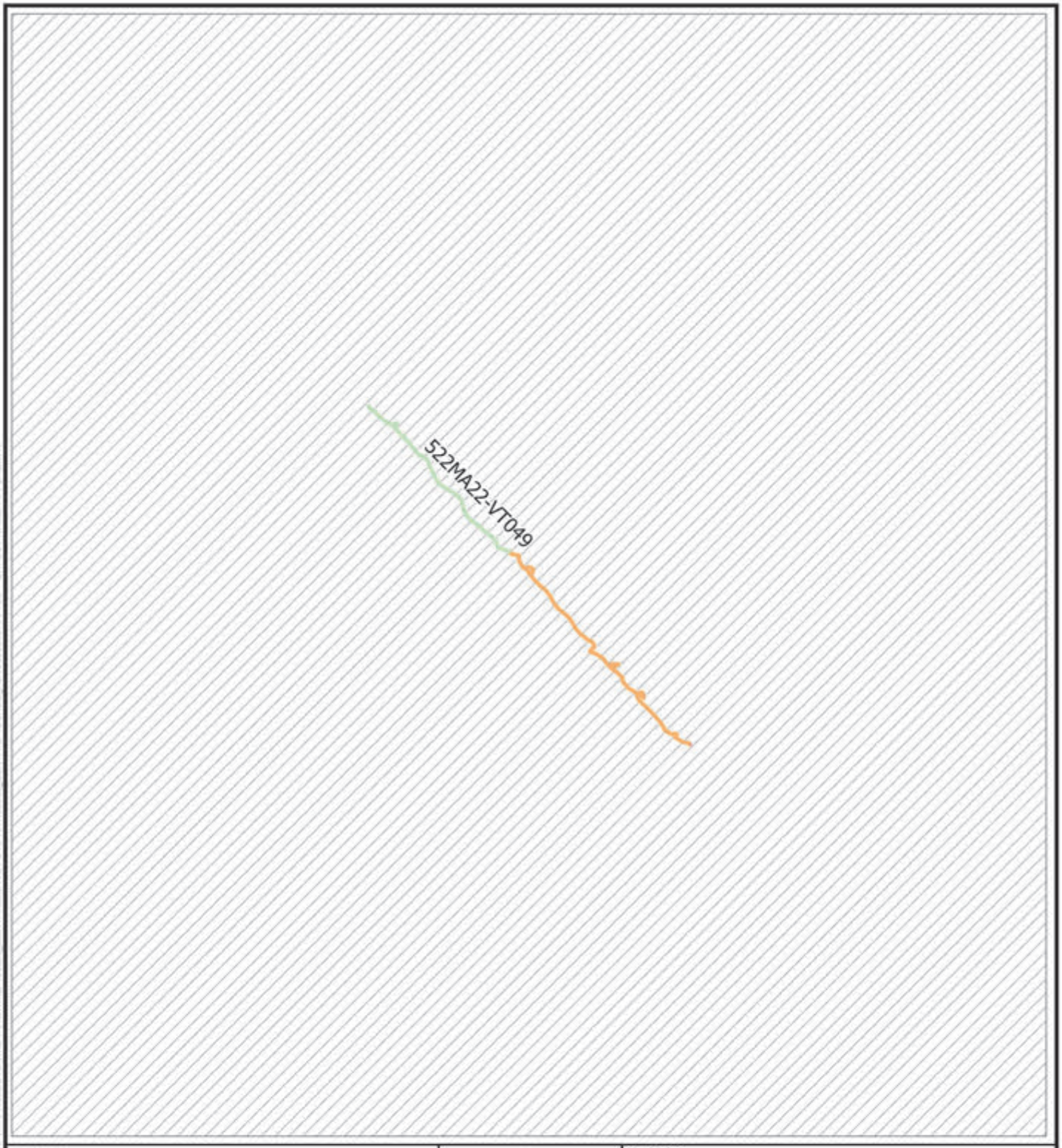
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT048

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCGIS\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

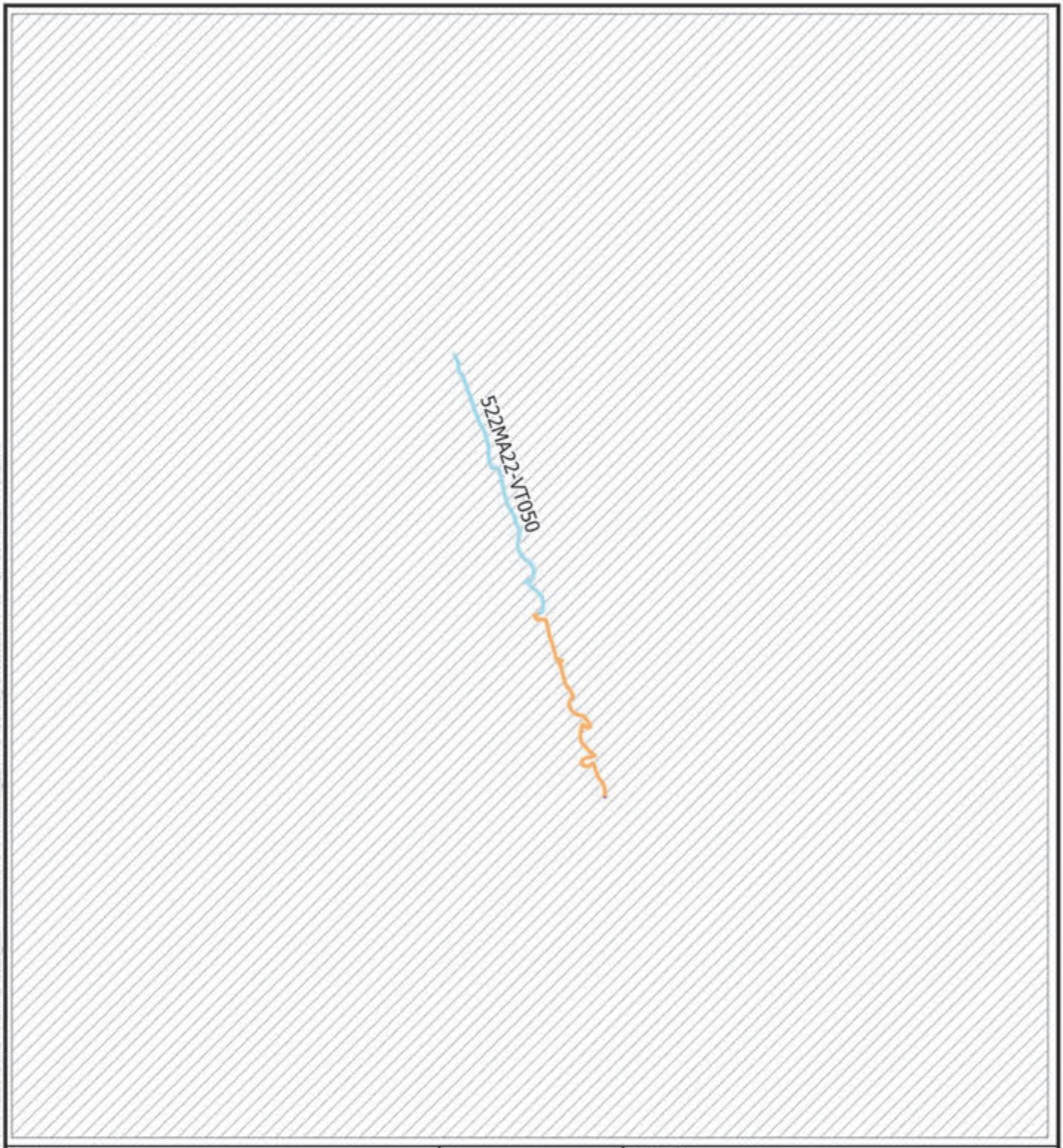
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT049	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

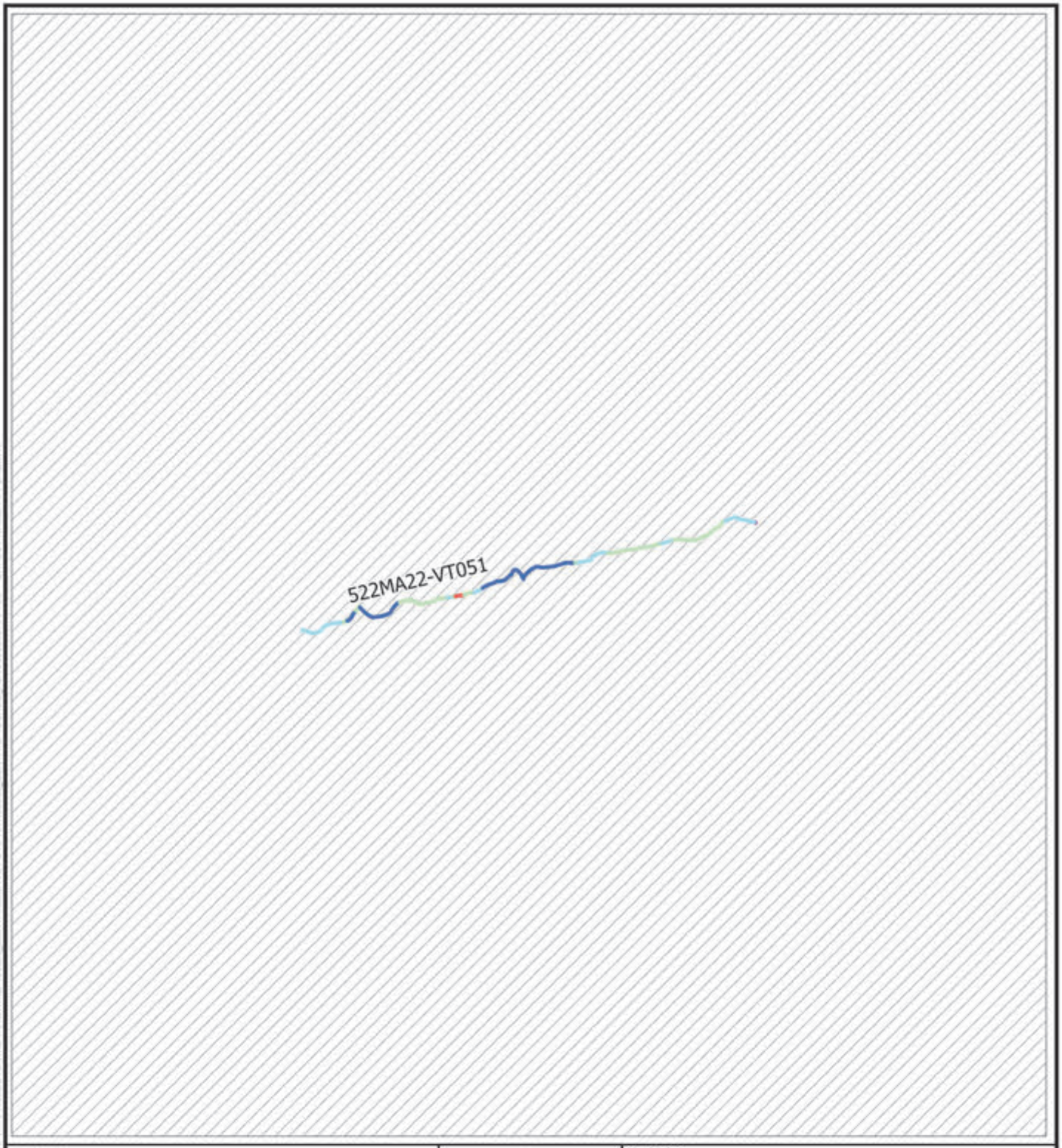
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT050

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

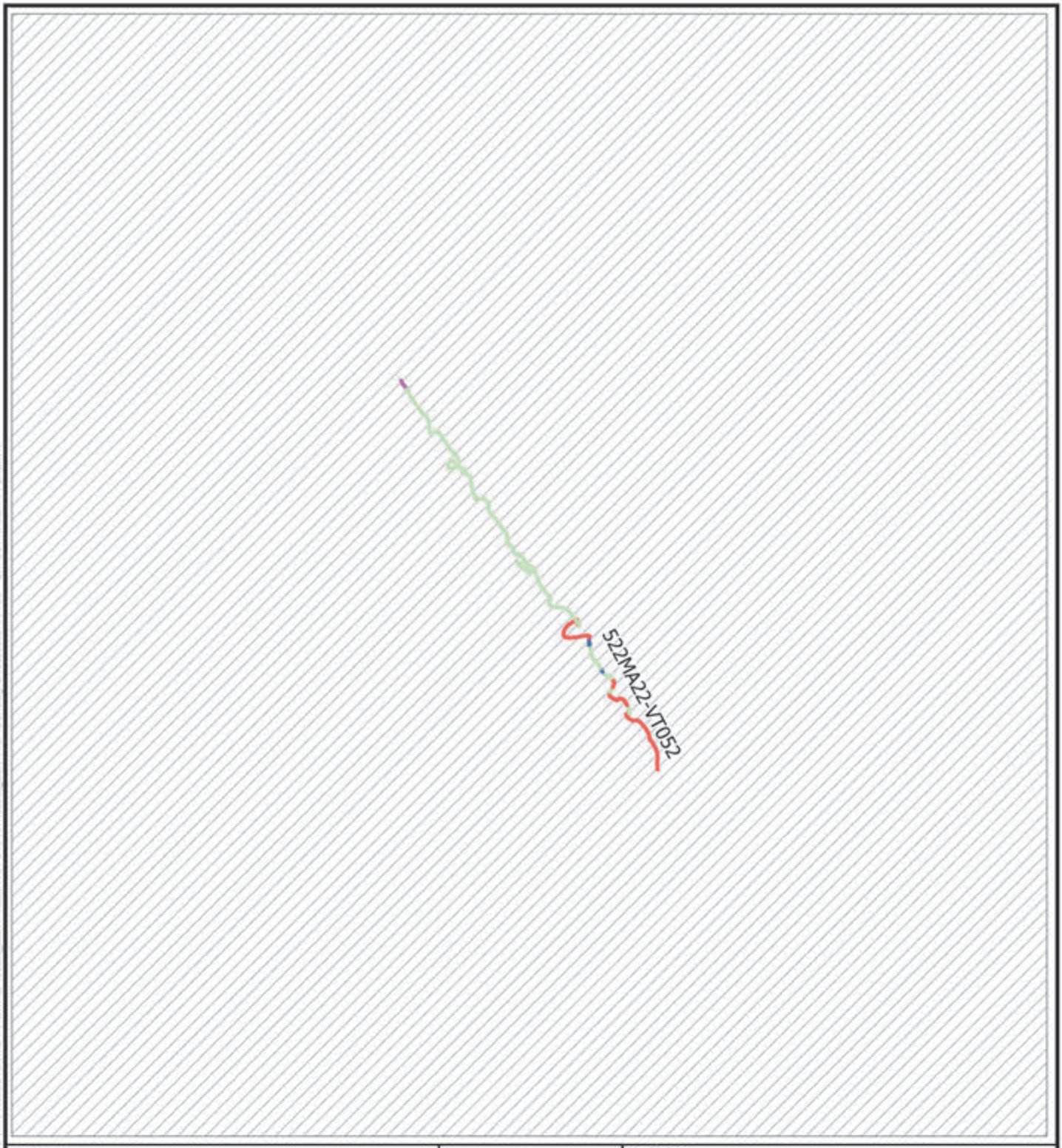
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT051

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

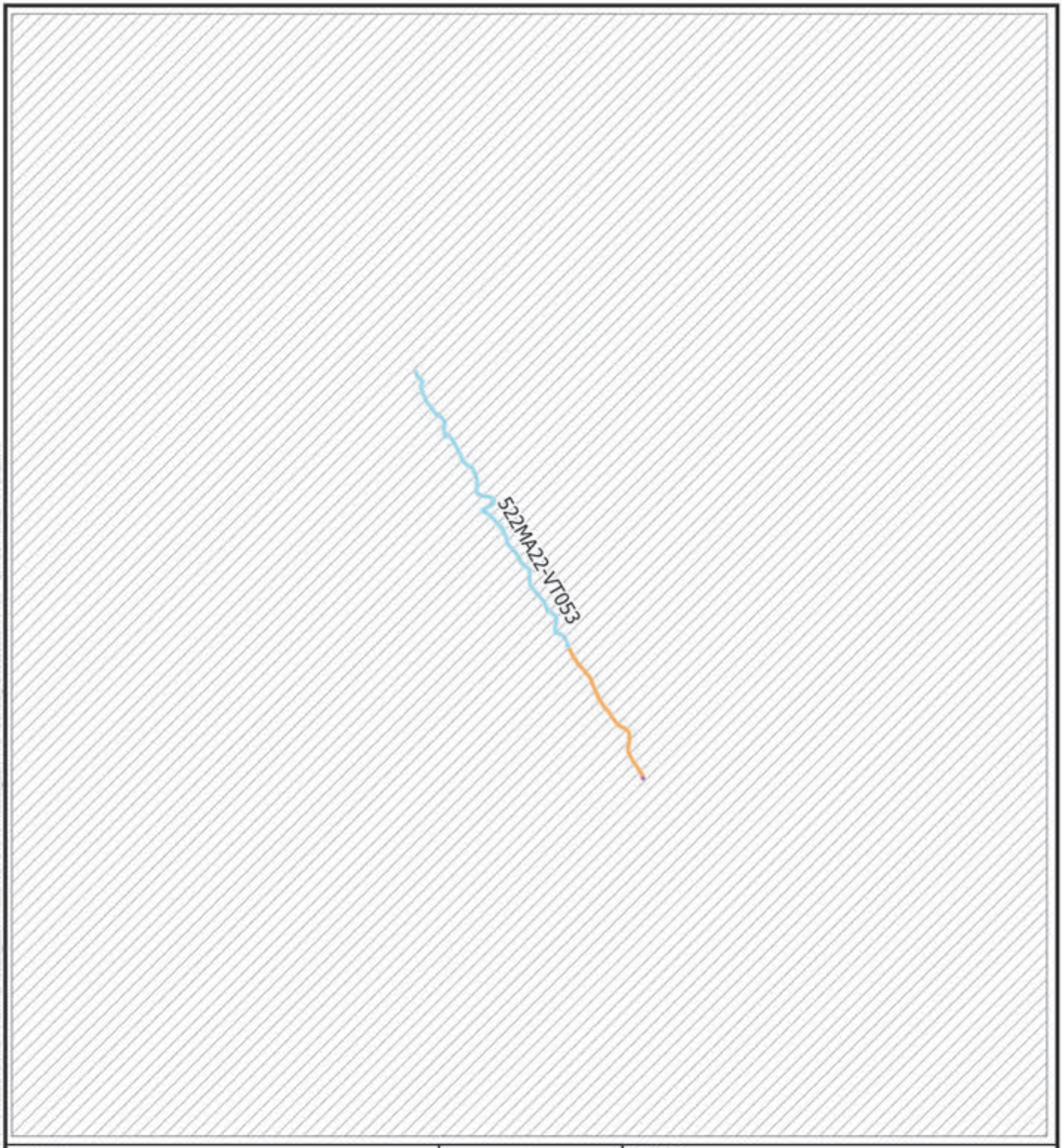
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT052

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

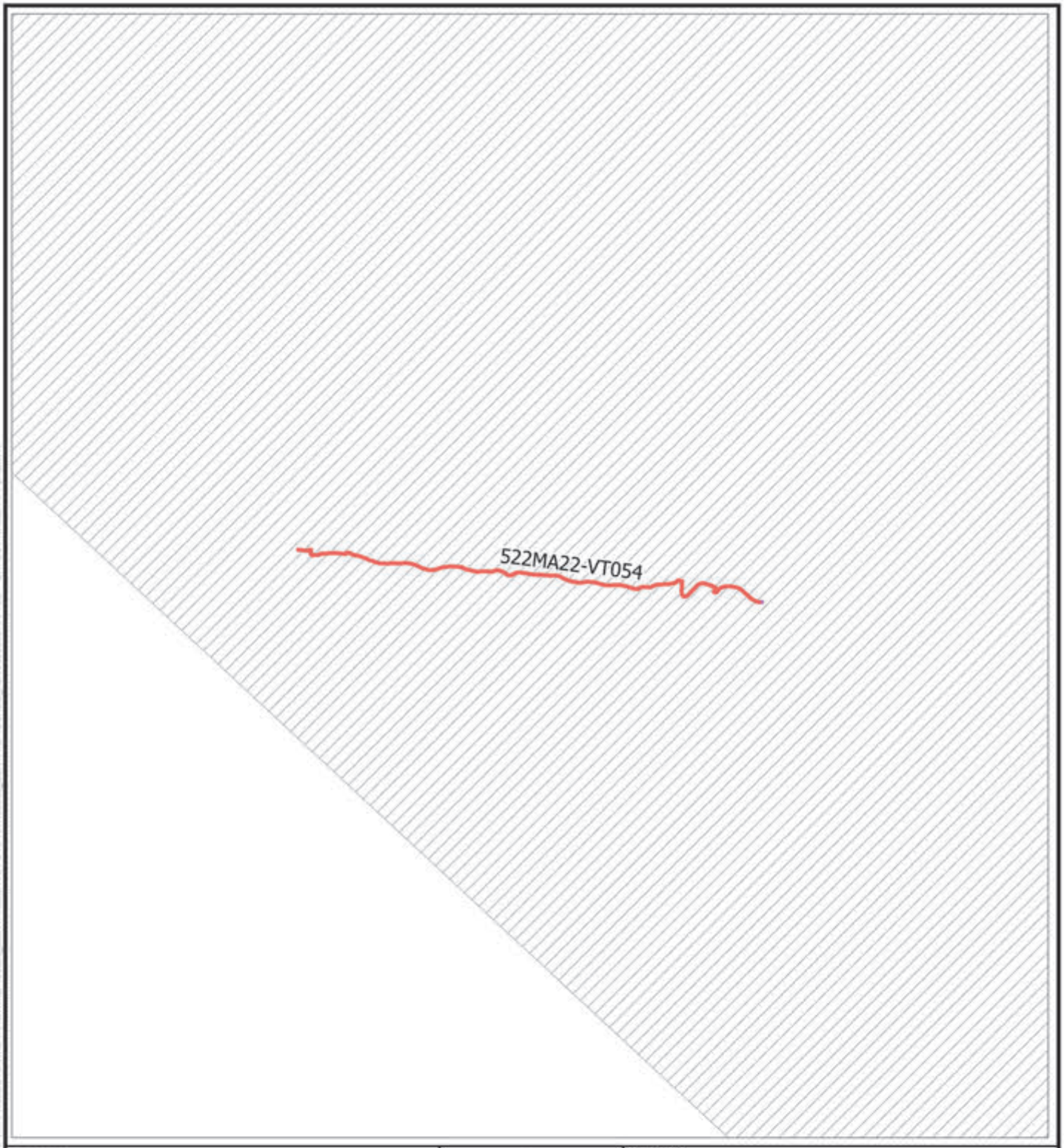
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT053

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel Mixes
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

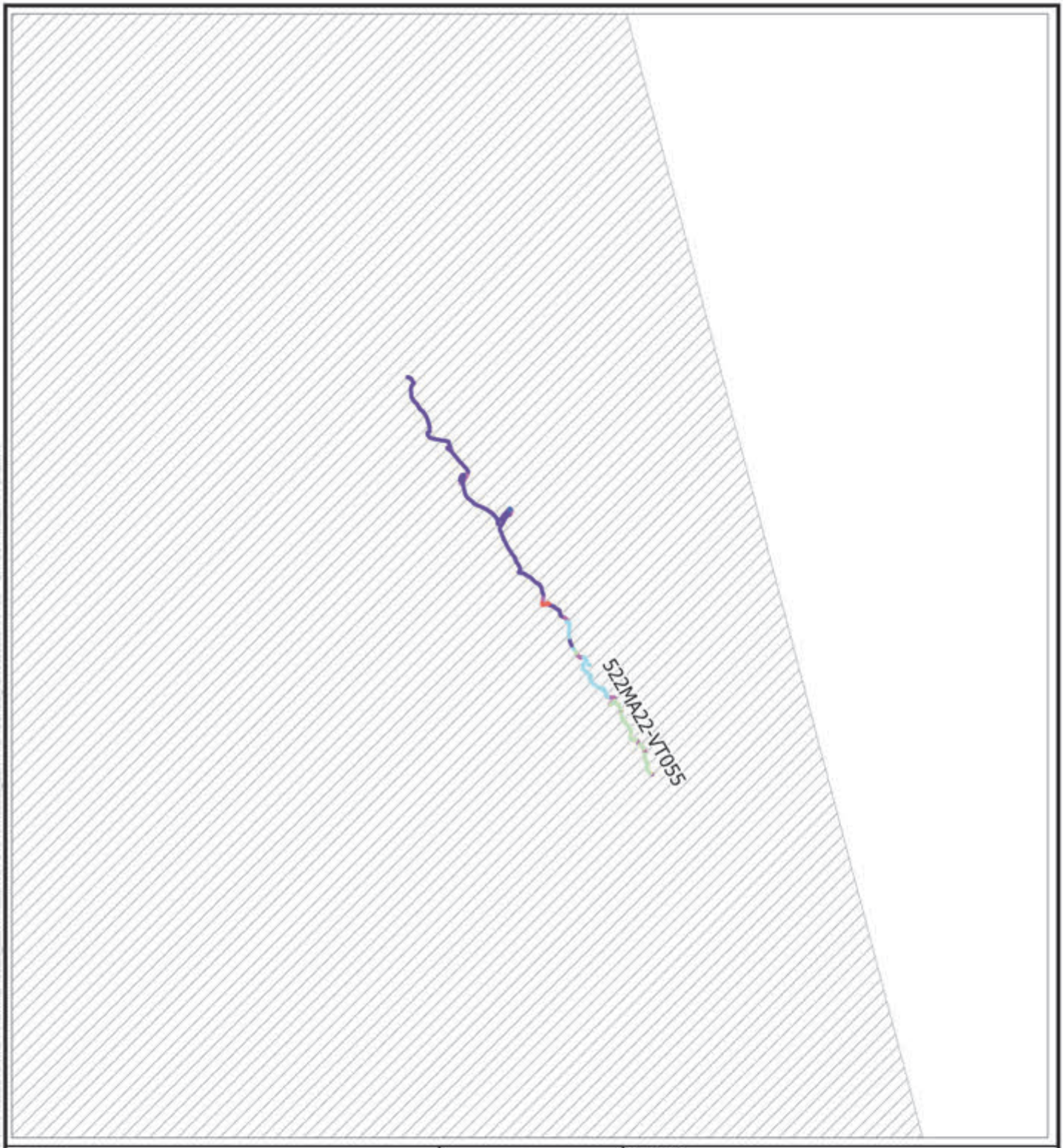
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522MA22-VT054	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sandy Mud
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT055

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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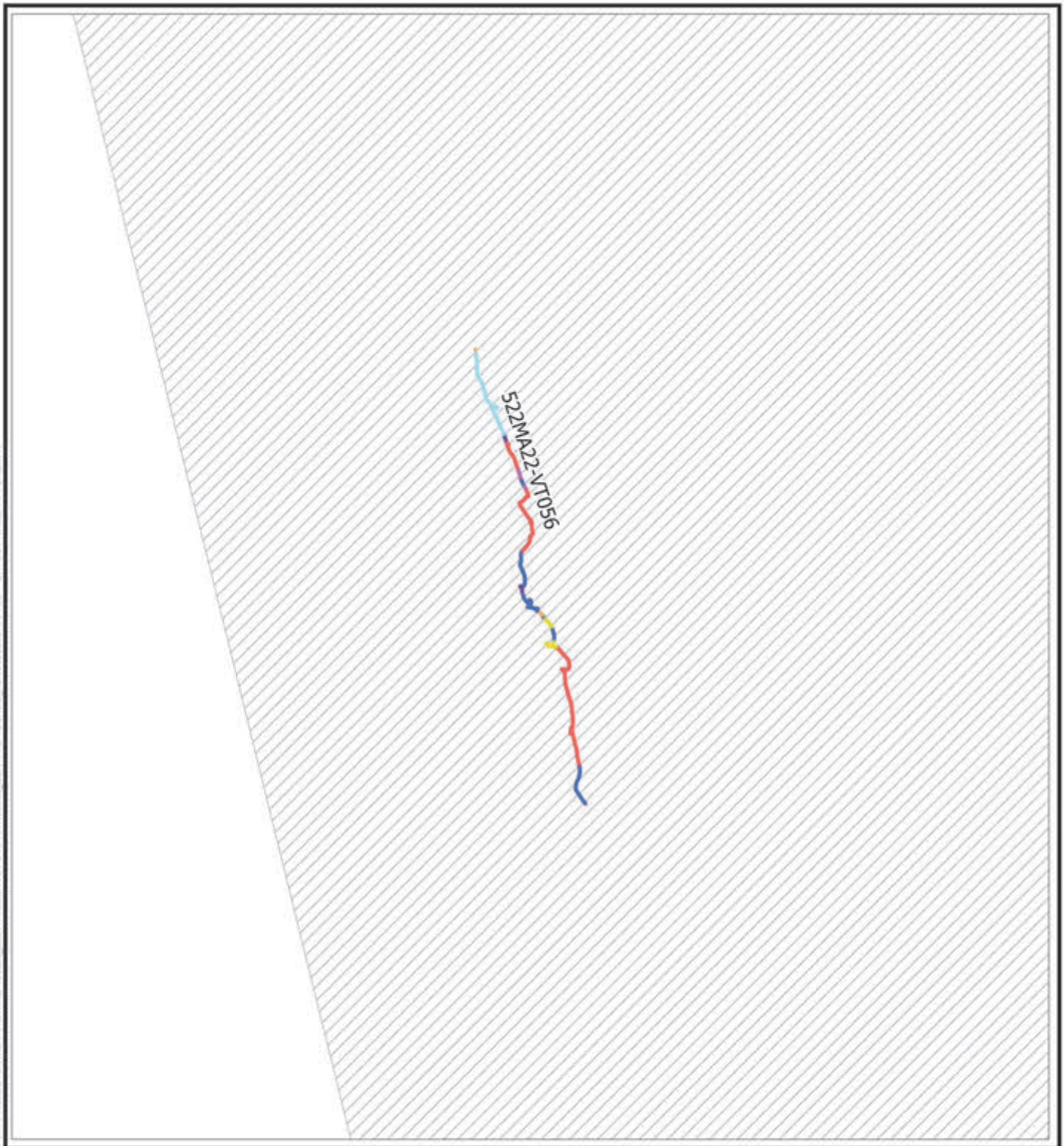


MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

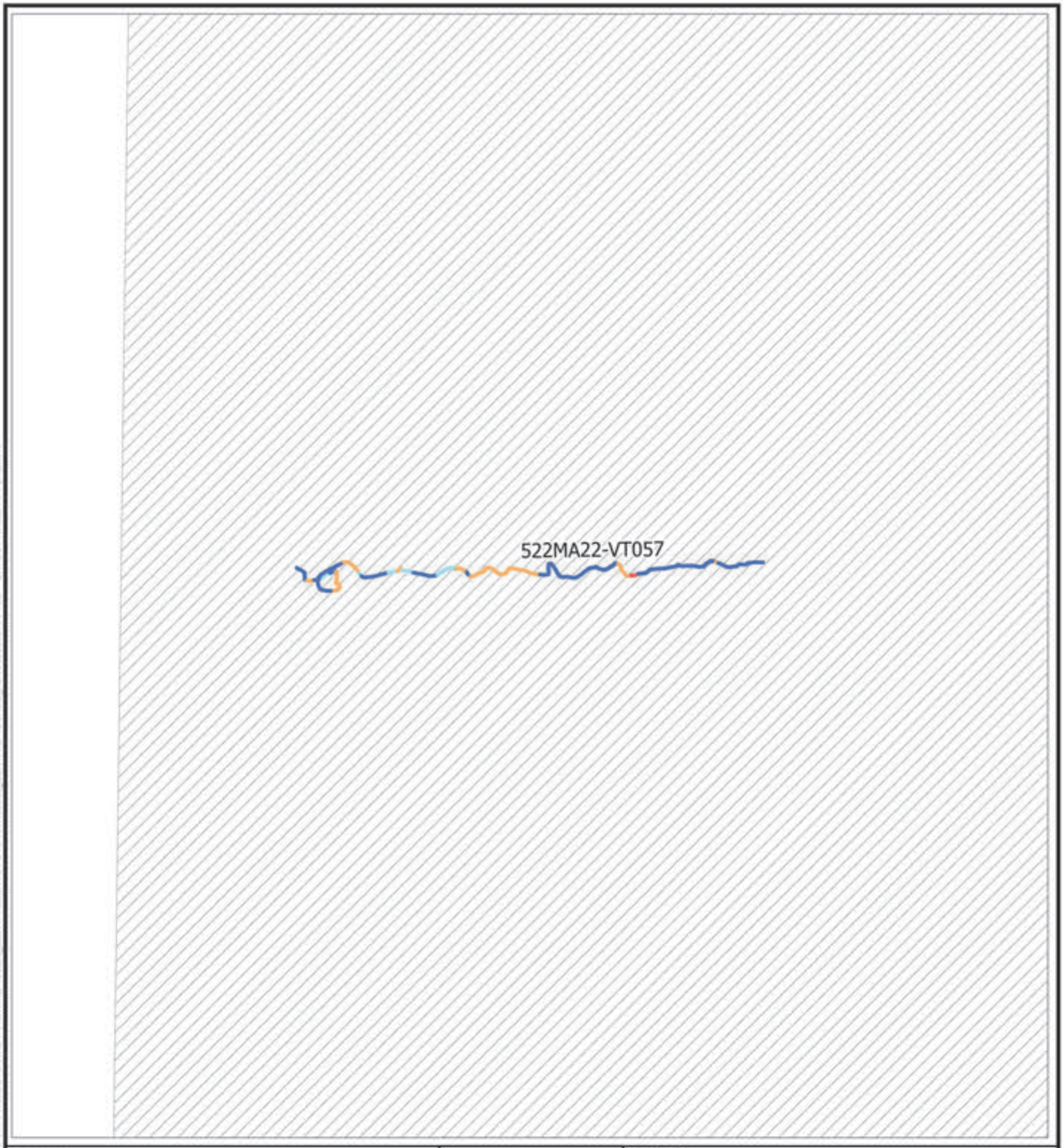
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT056

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

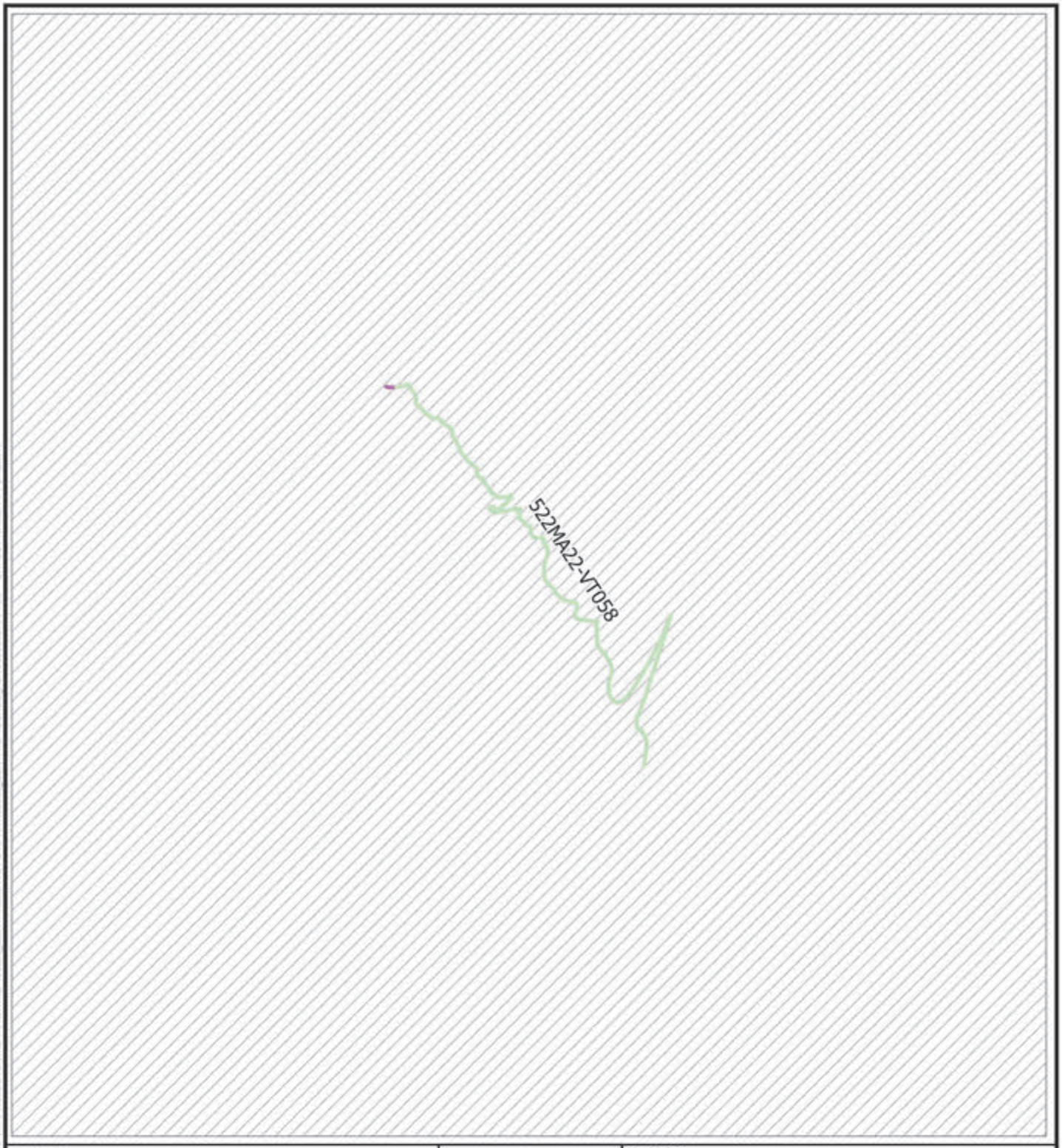
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT057

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

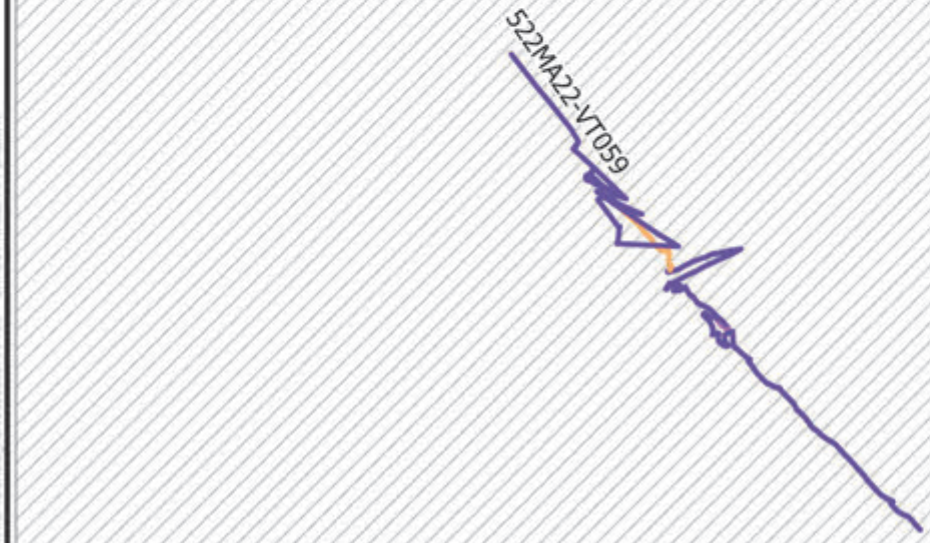
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT058

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



MA Offshore Export Cable Corridor
Sand
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

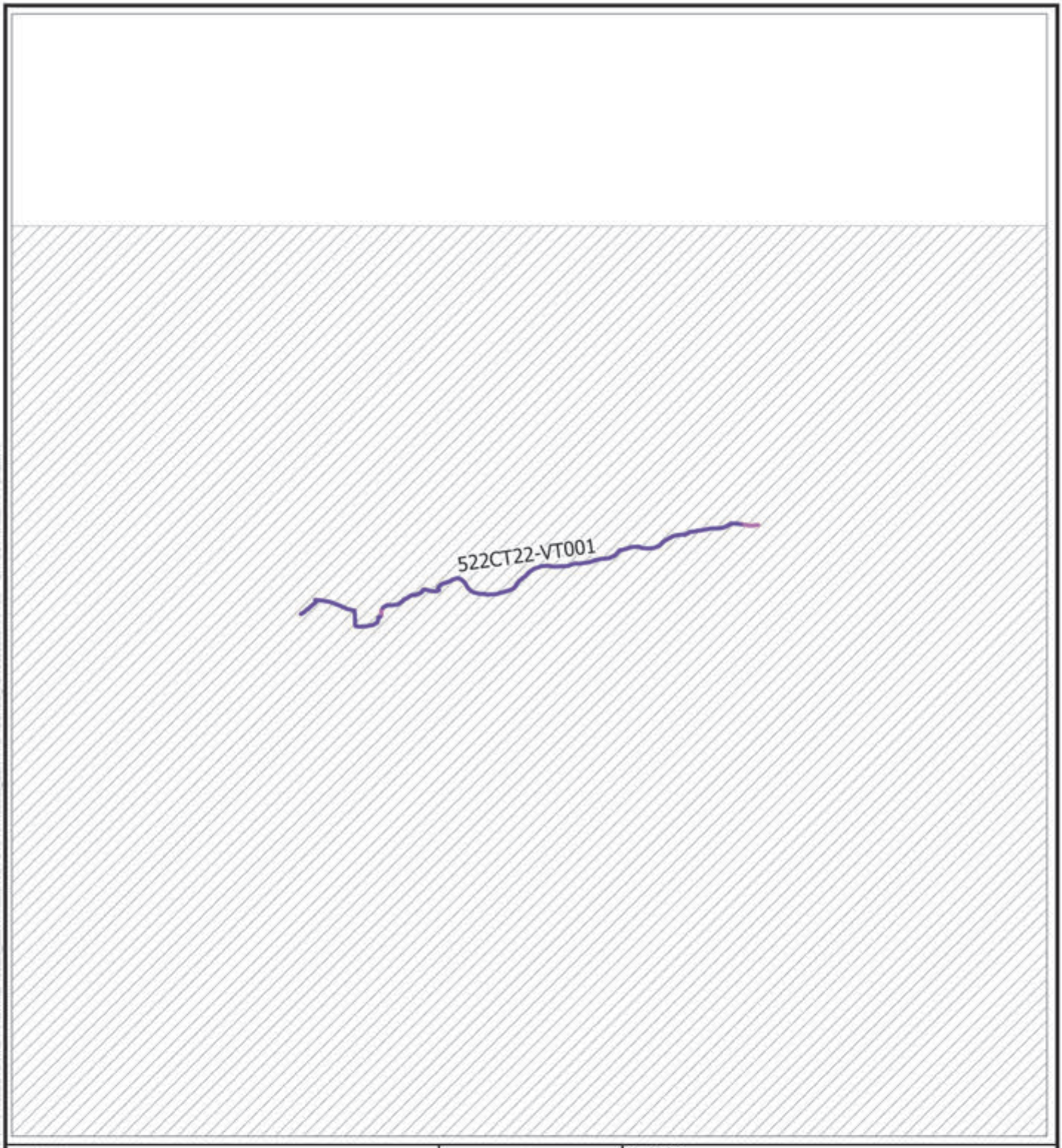
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522MA22-VT059

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:27:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

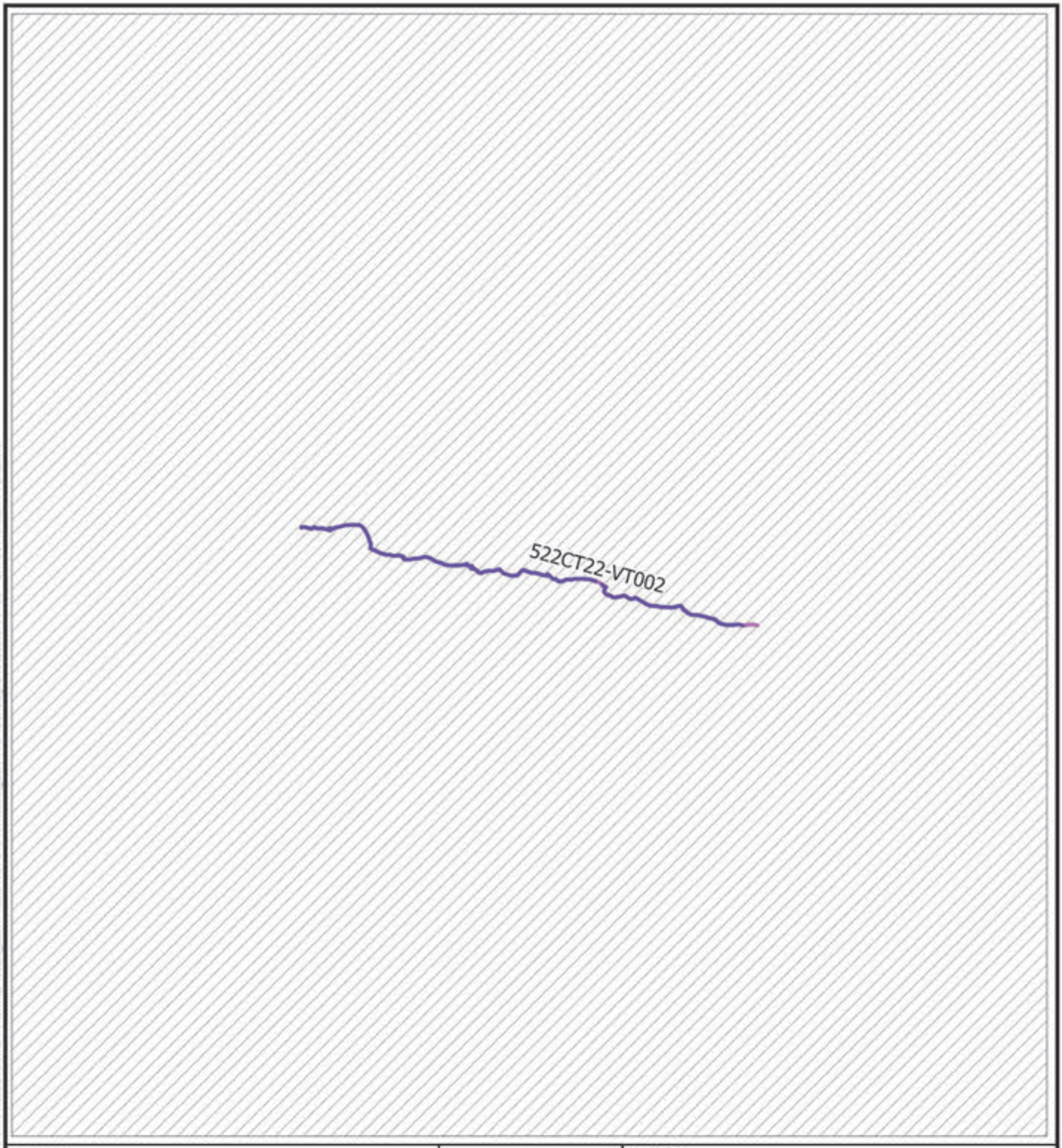
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT001

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sandy Mud
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

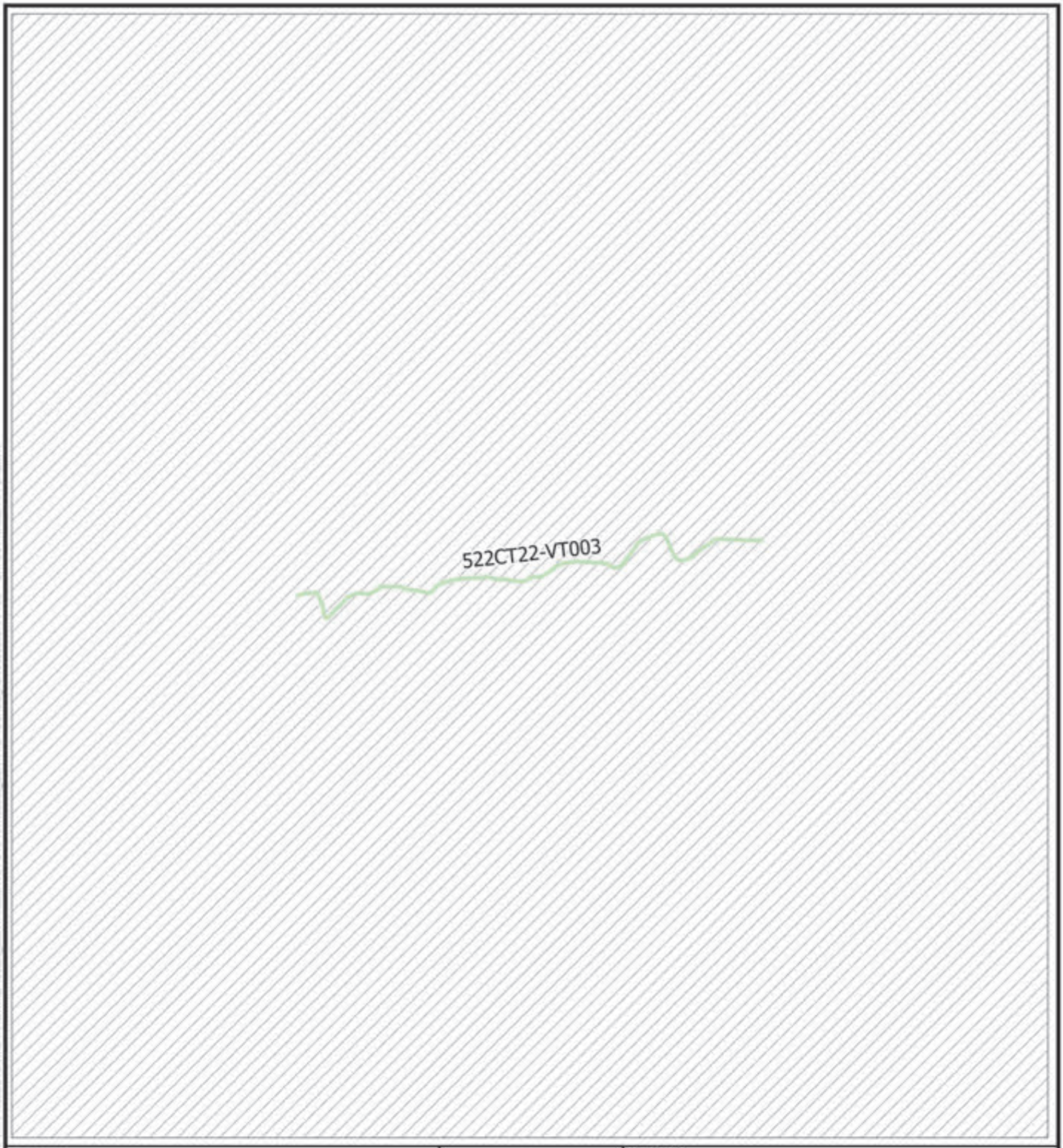
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT002

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

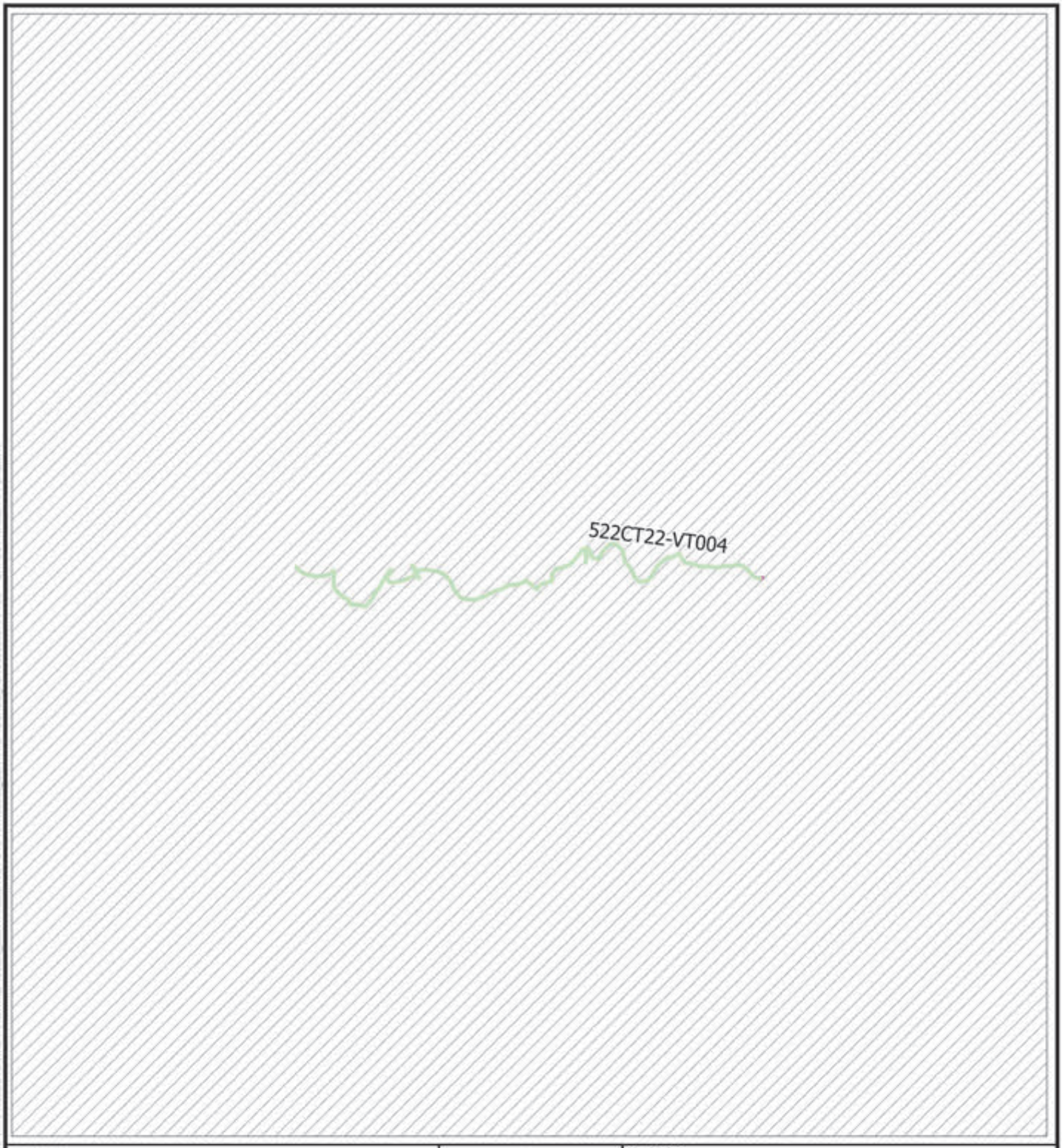
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT003

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

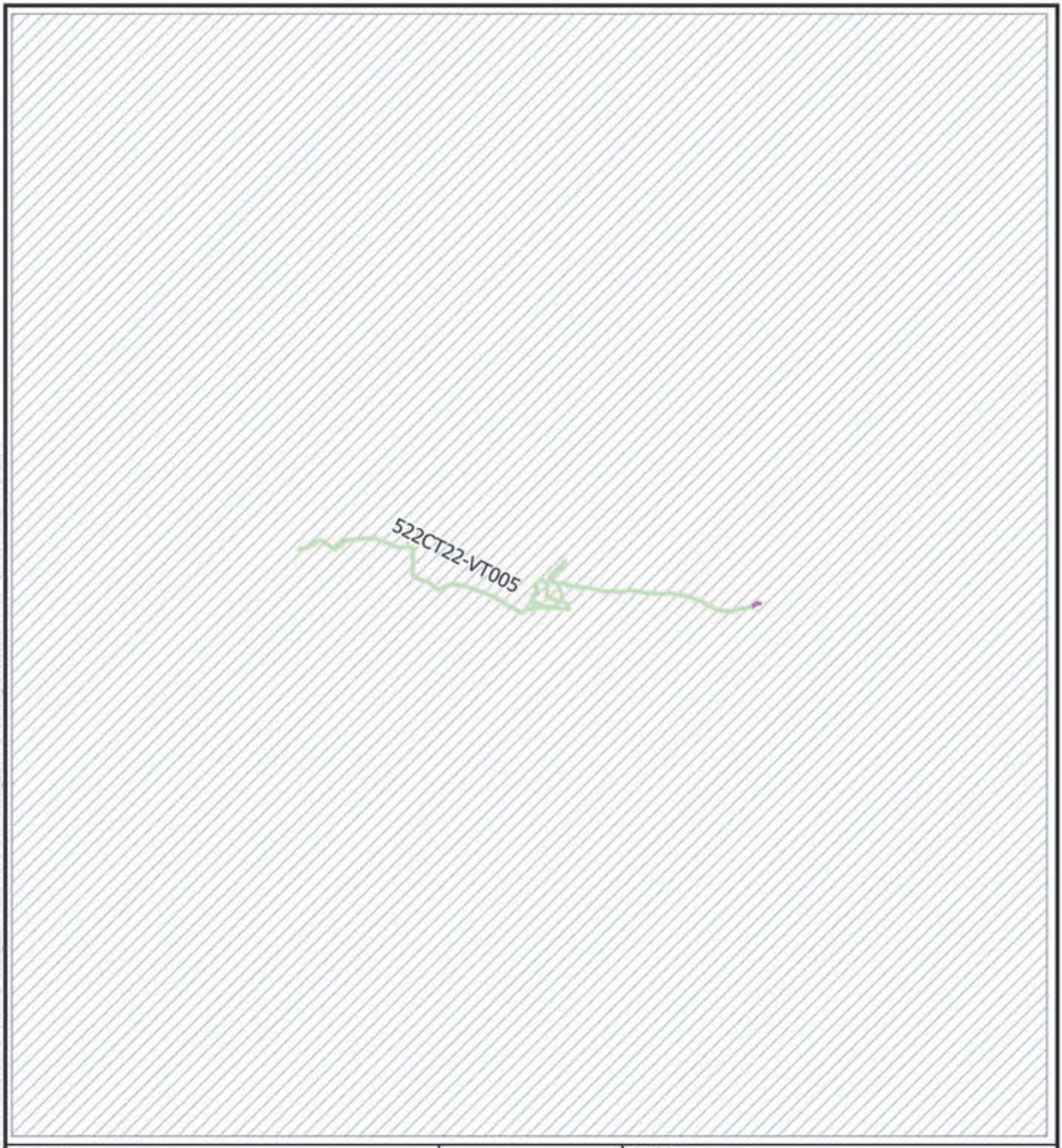
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT004

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\REVIEW\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

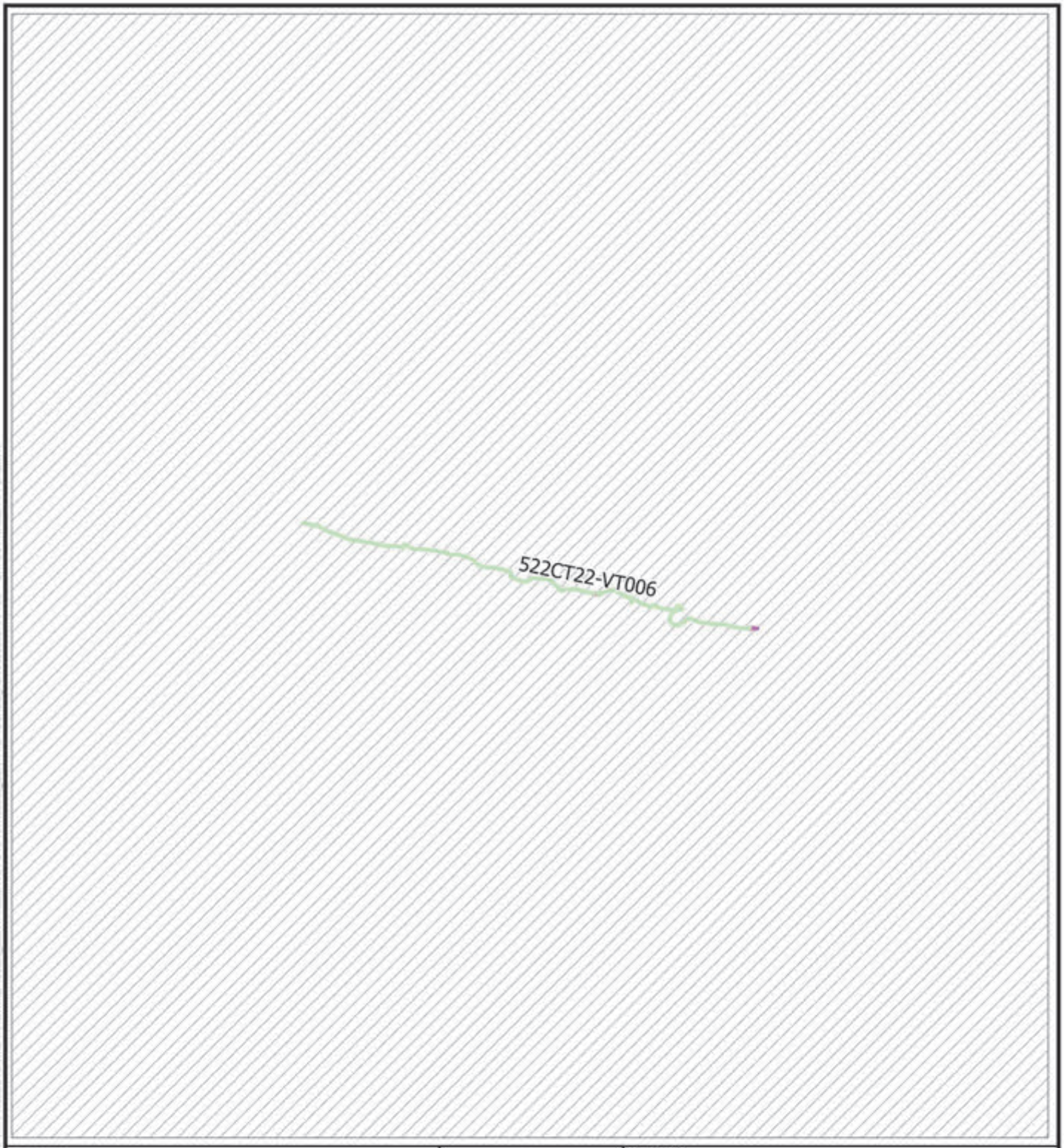
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT005

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

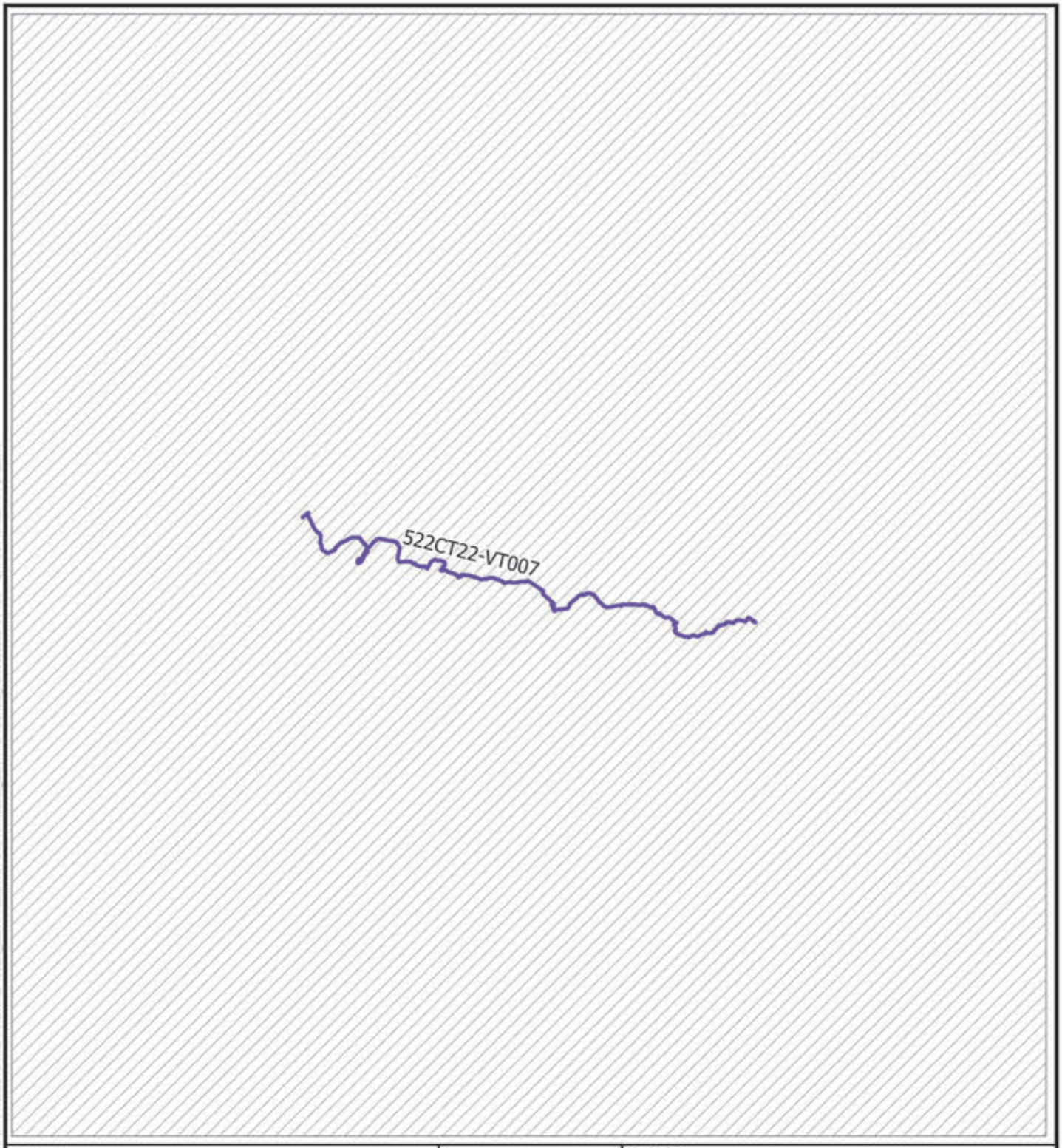
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT006	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sandy Mud

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METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

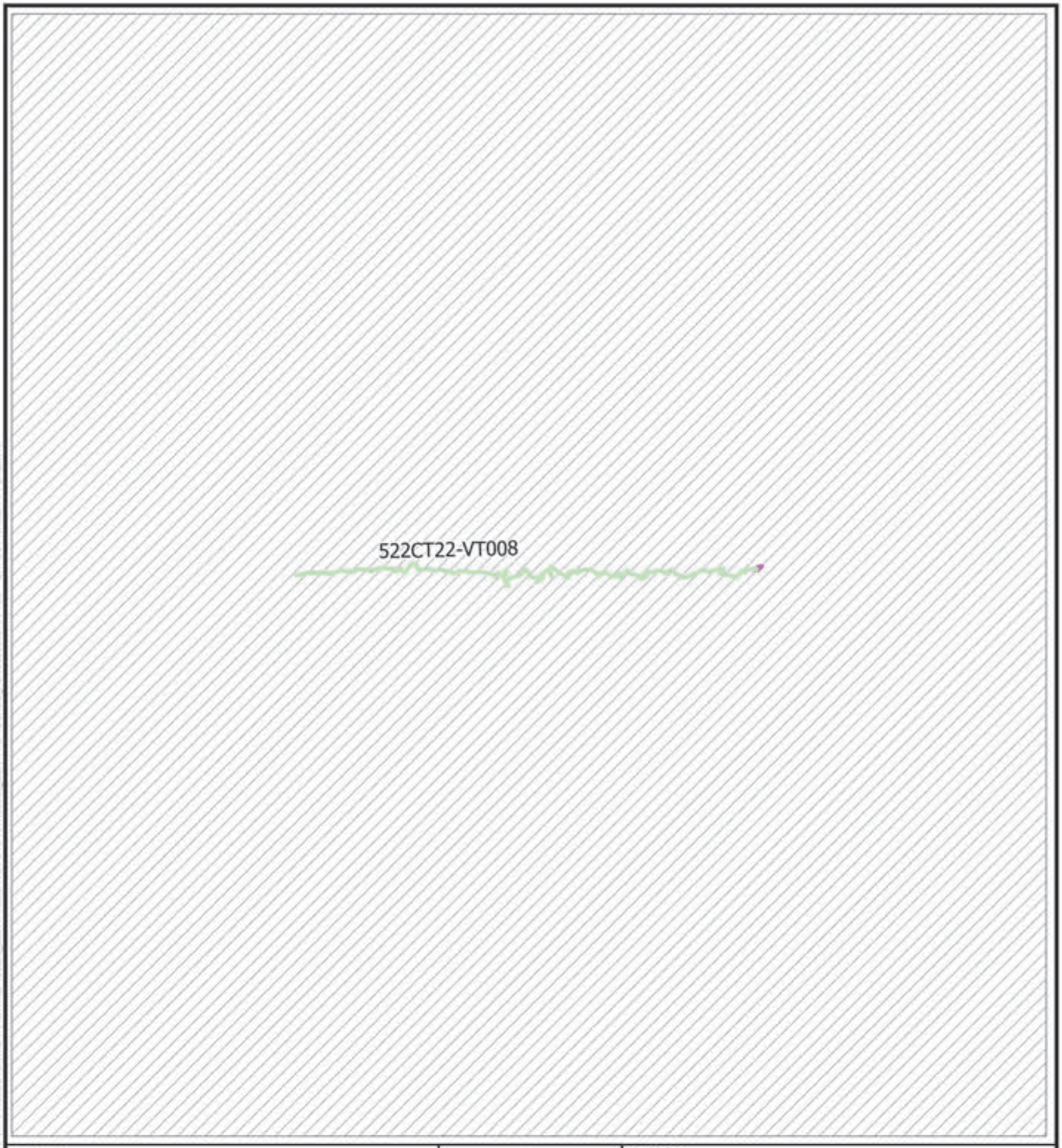
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT007

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

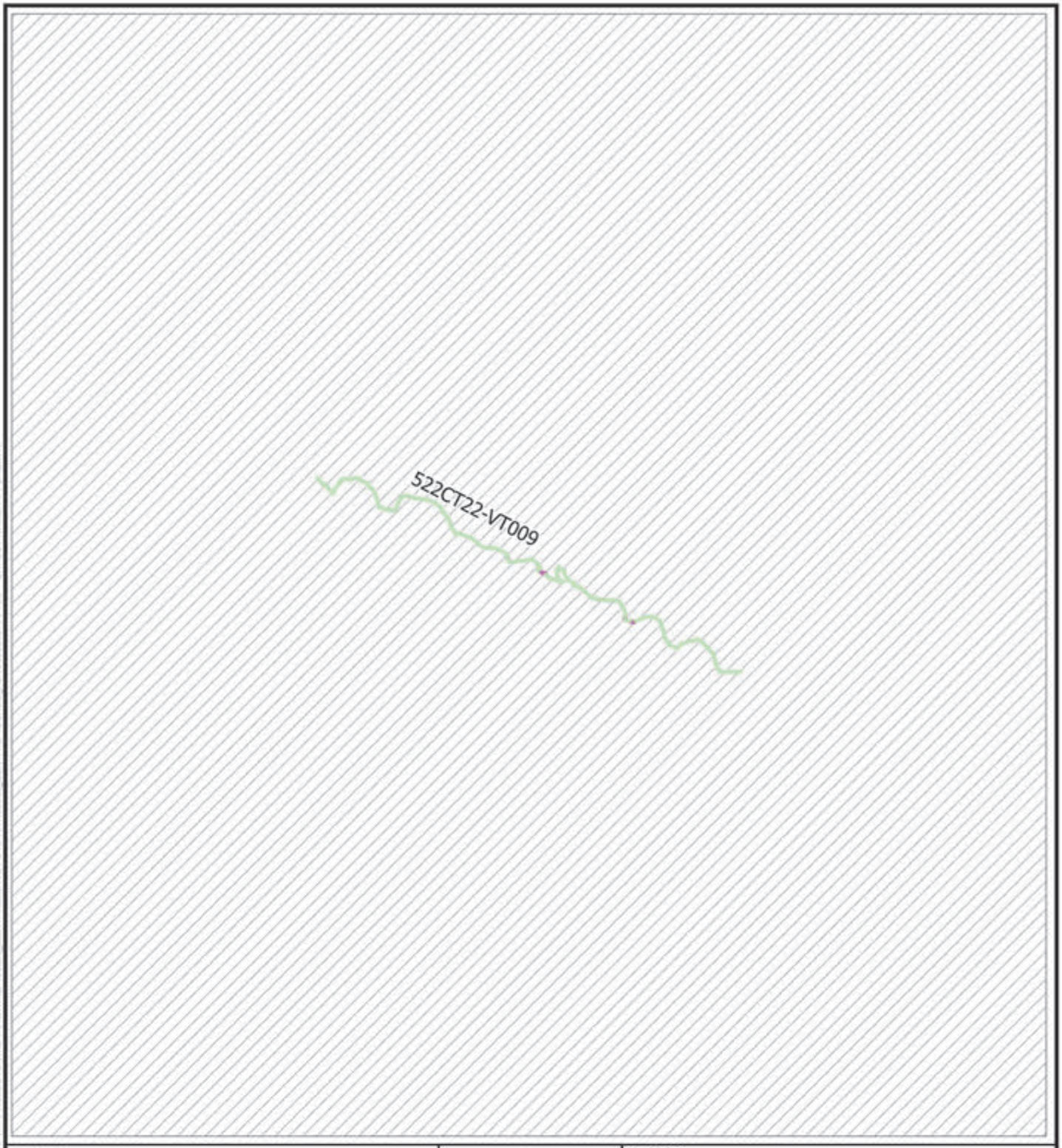
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT008

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

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0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

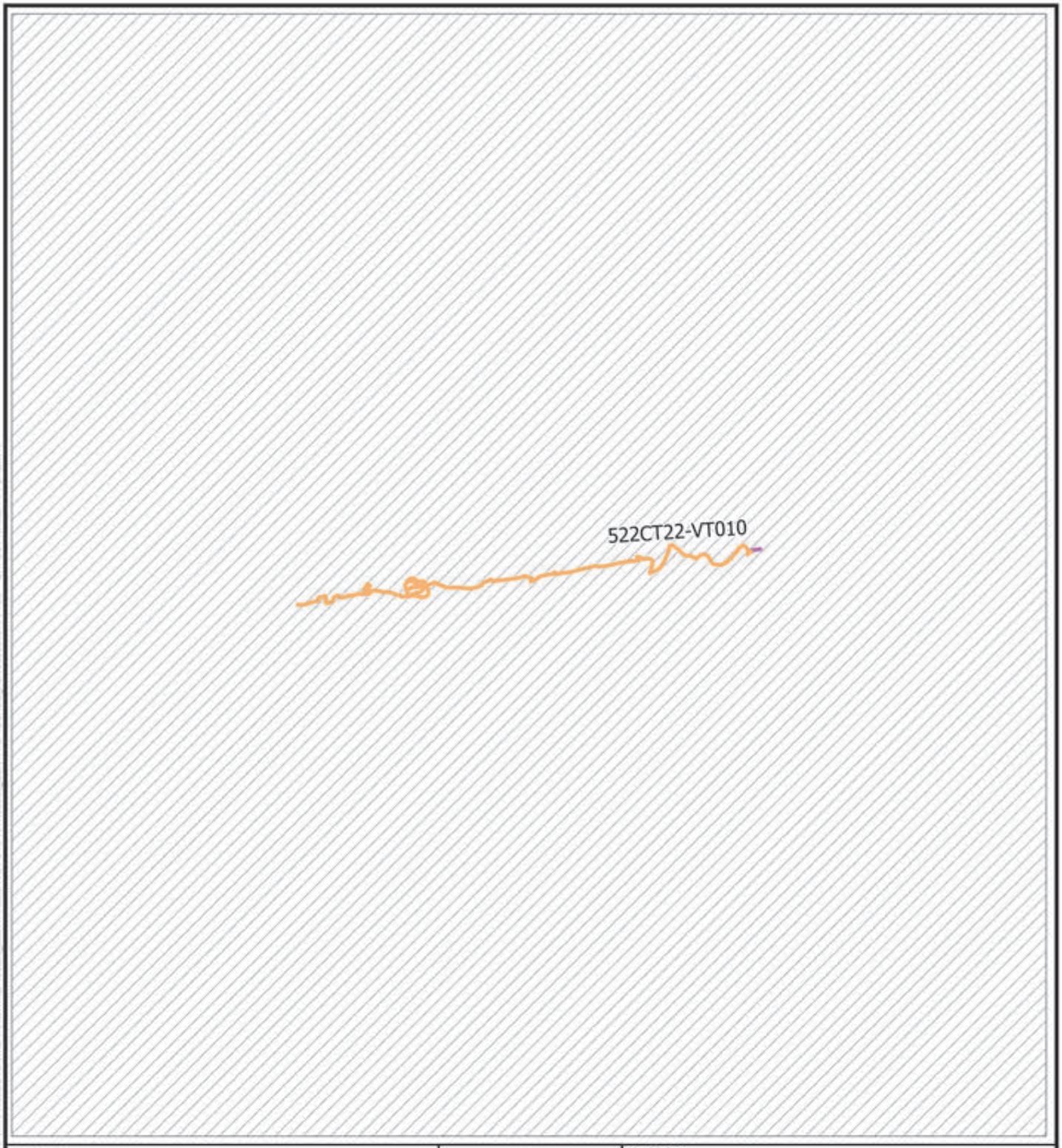
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT009

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

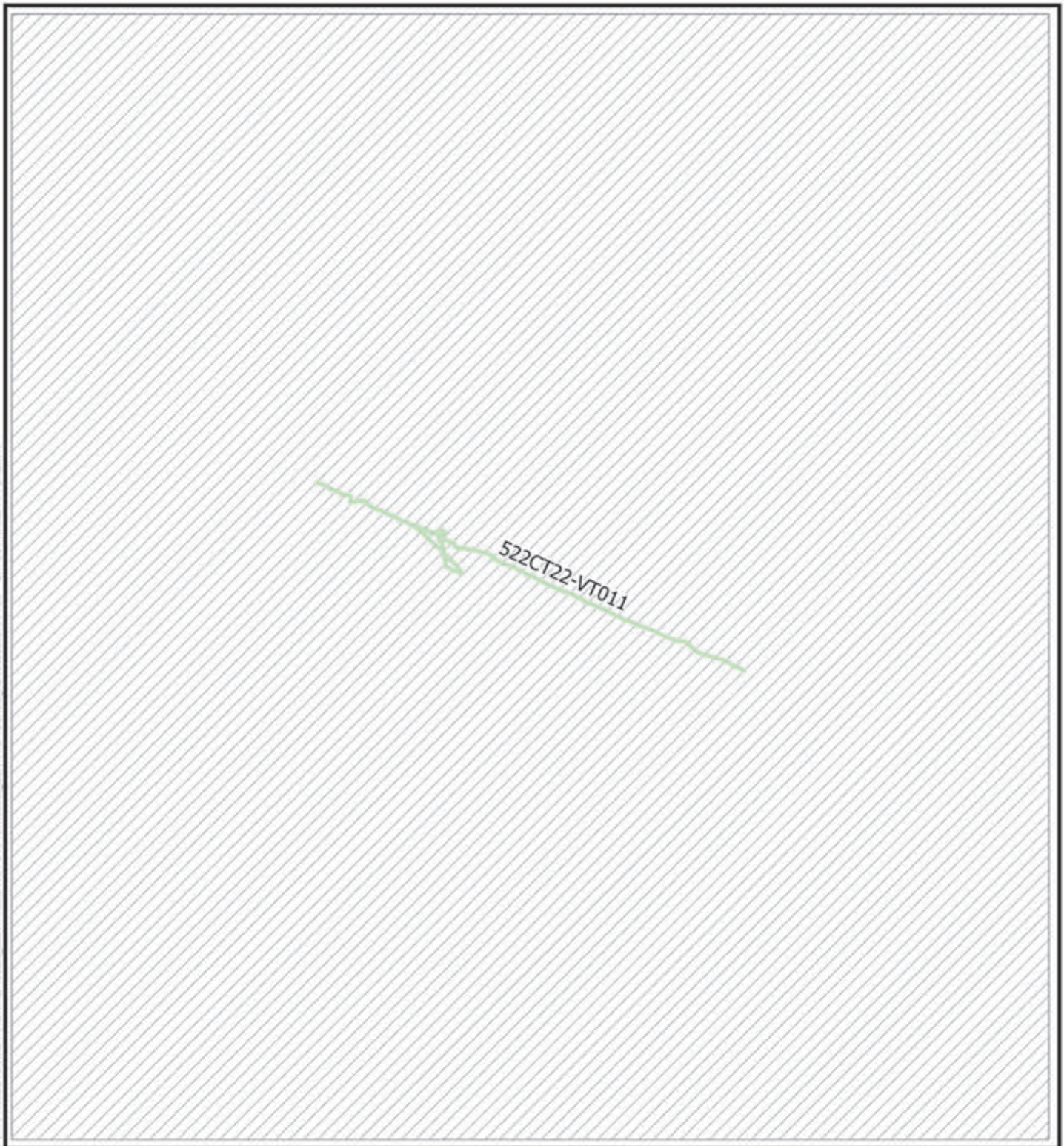
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT010

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

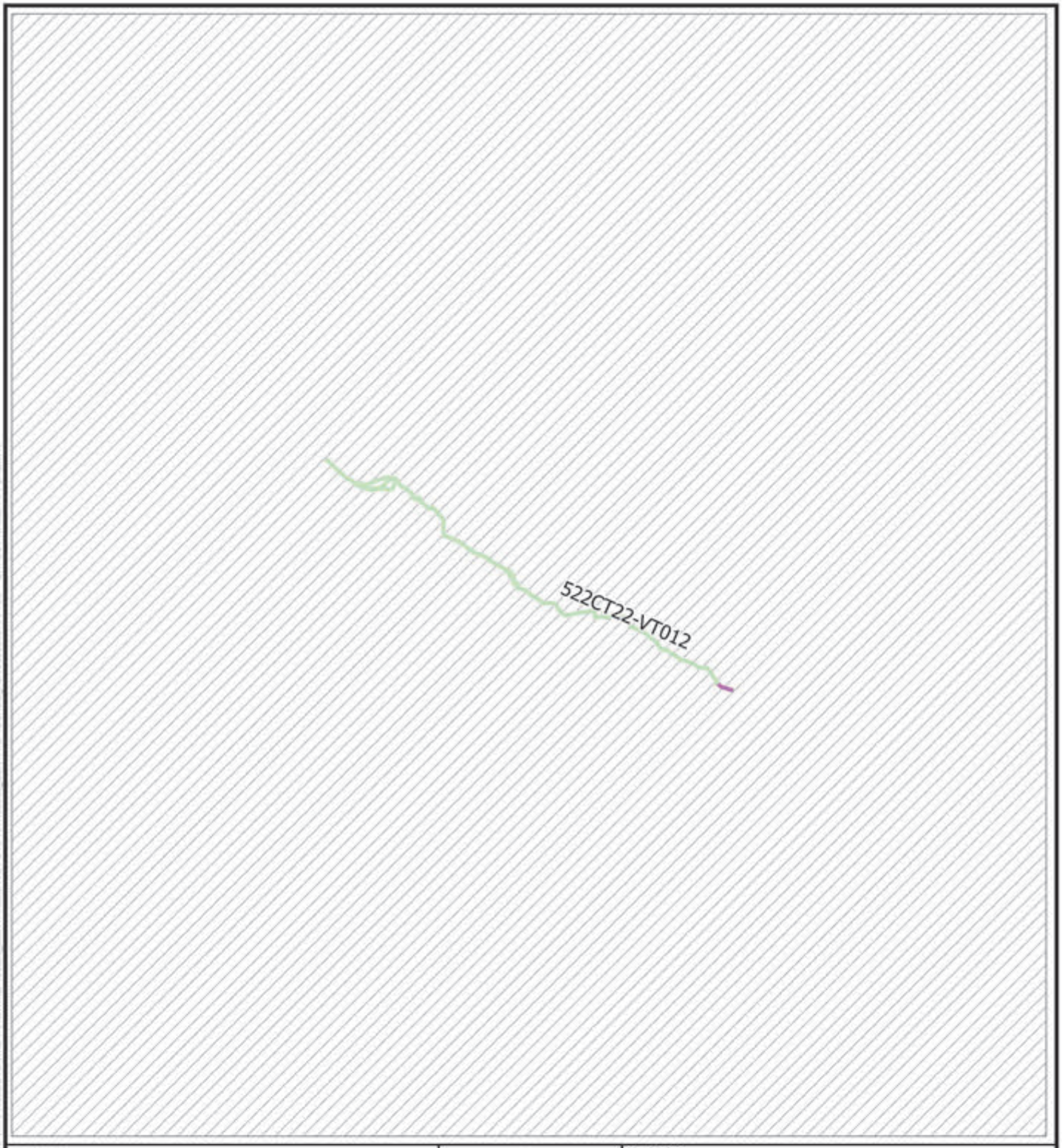
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT011

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\REVIEW\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

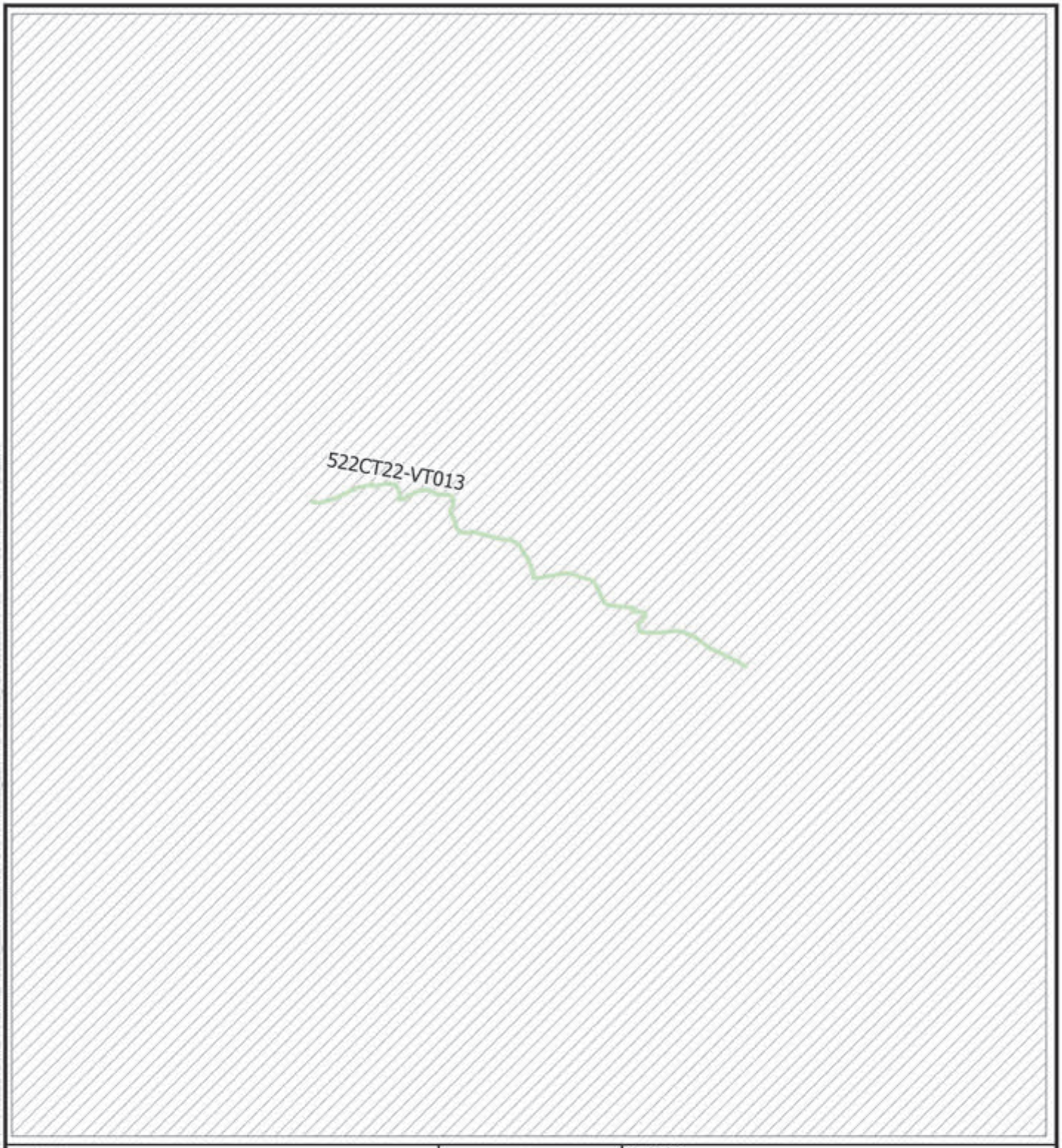
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT012

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_O_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

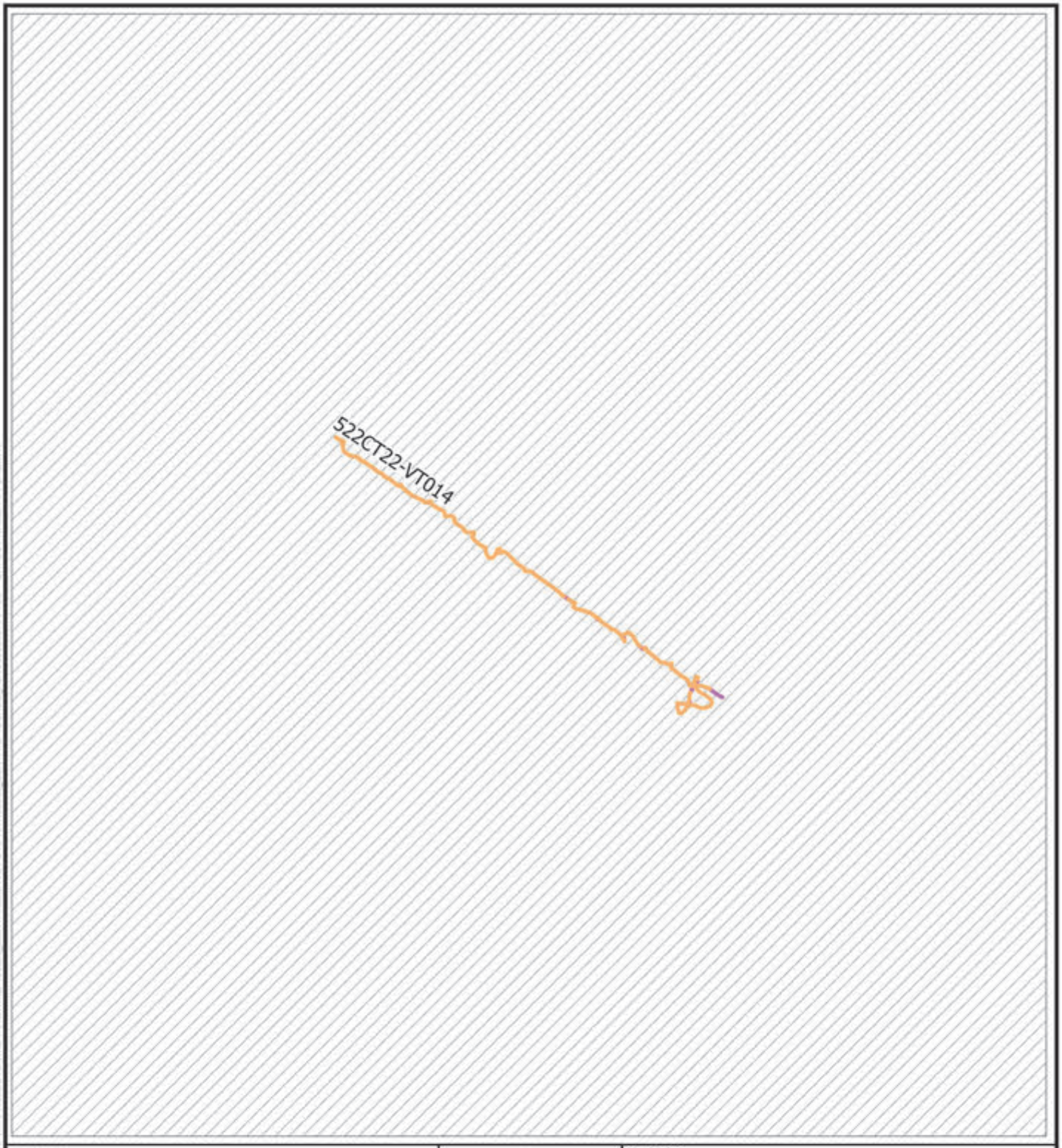
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT013

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

Uncharacterized - Visibility Compromised

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

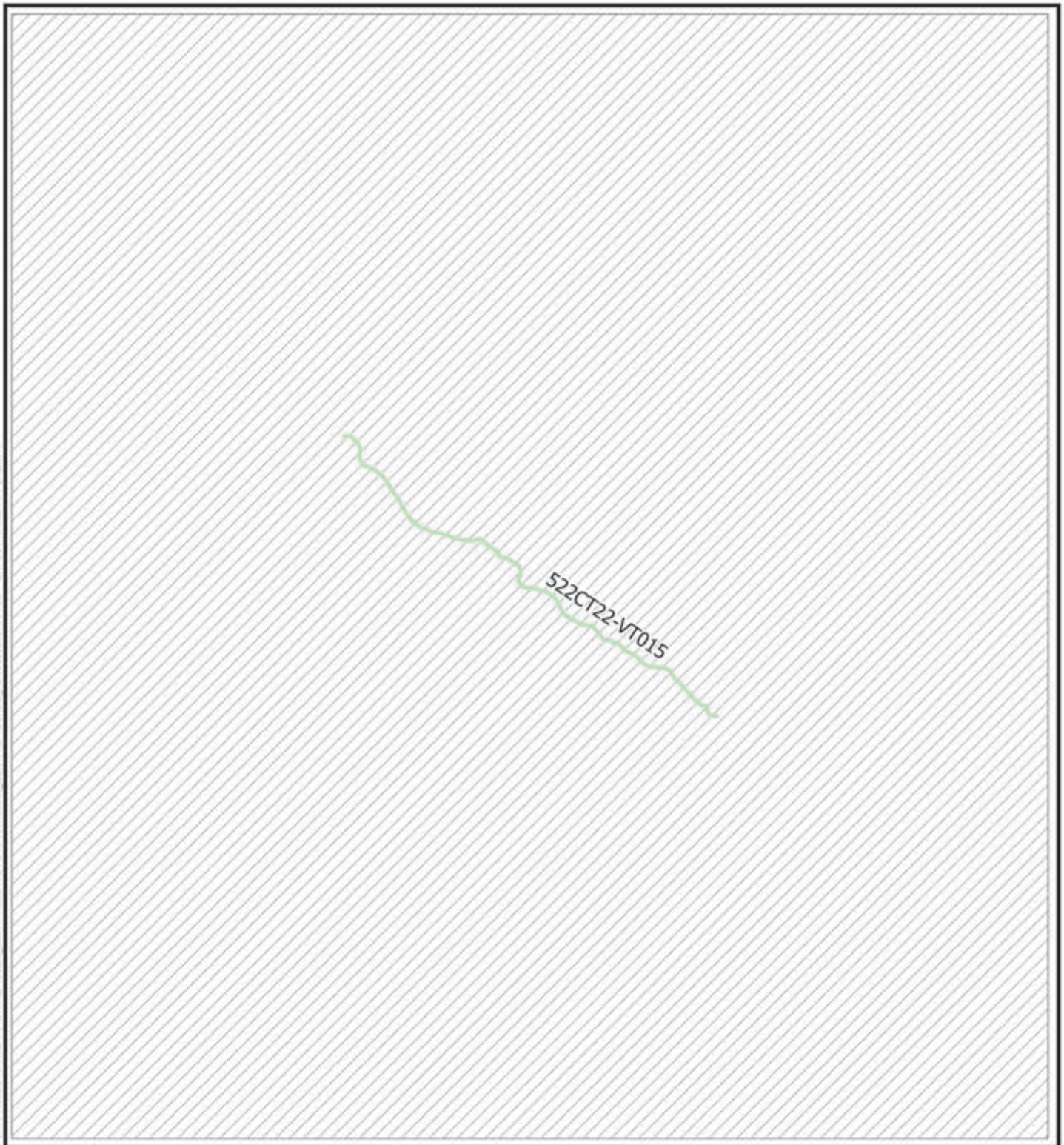
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT014

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

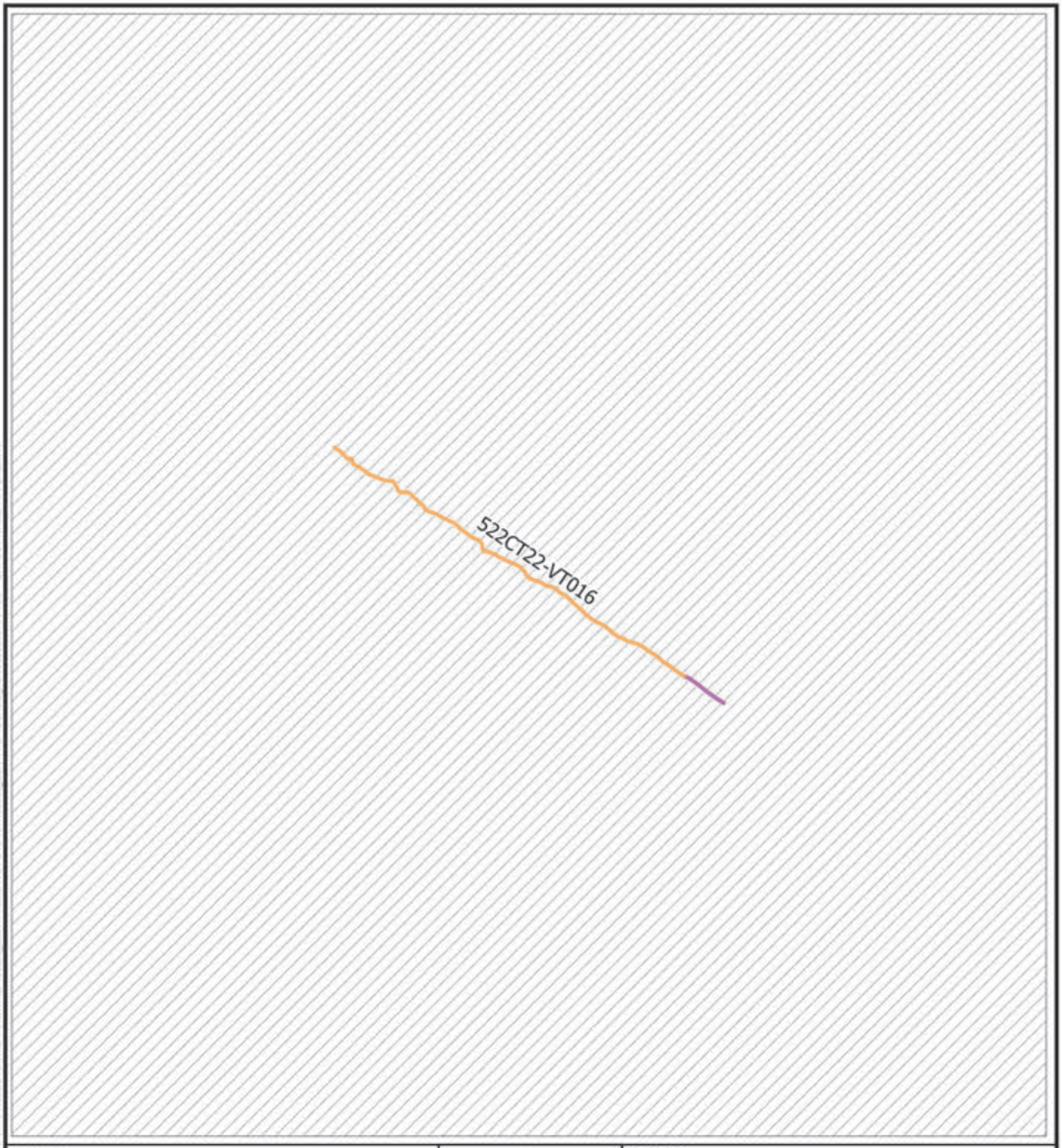
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT015

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



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Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

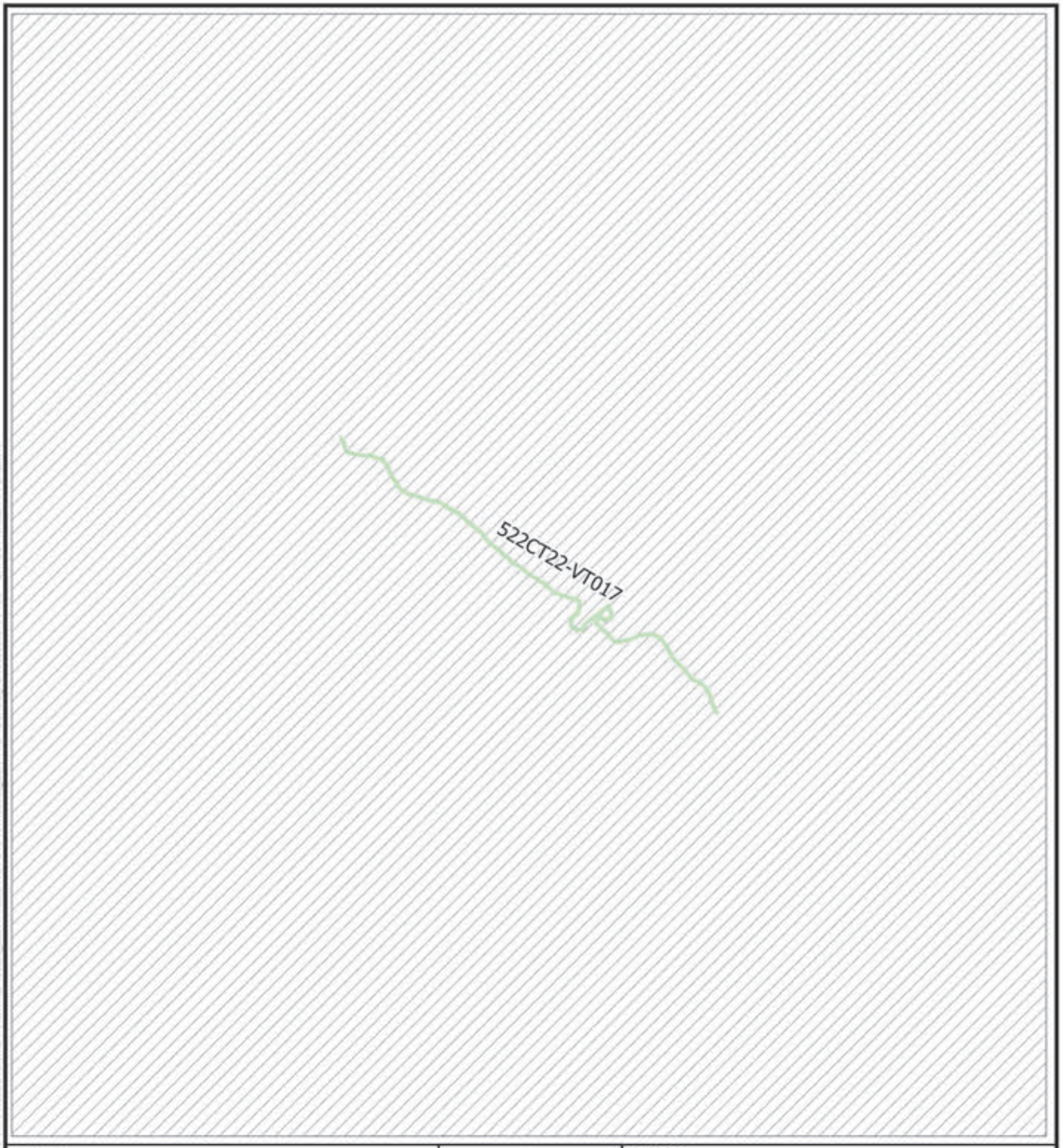
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT016

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

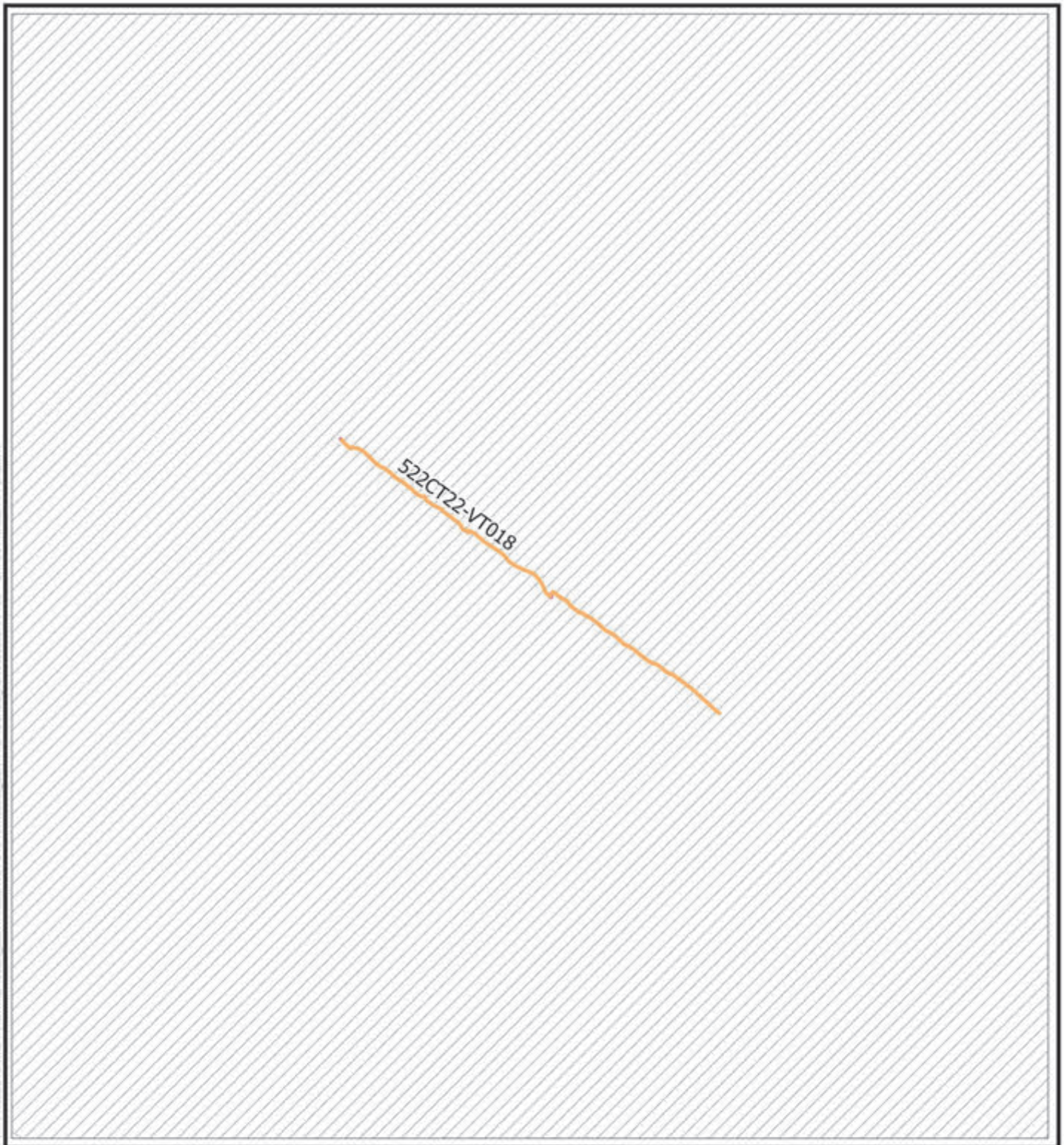
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT017	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

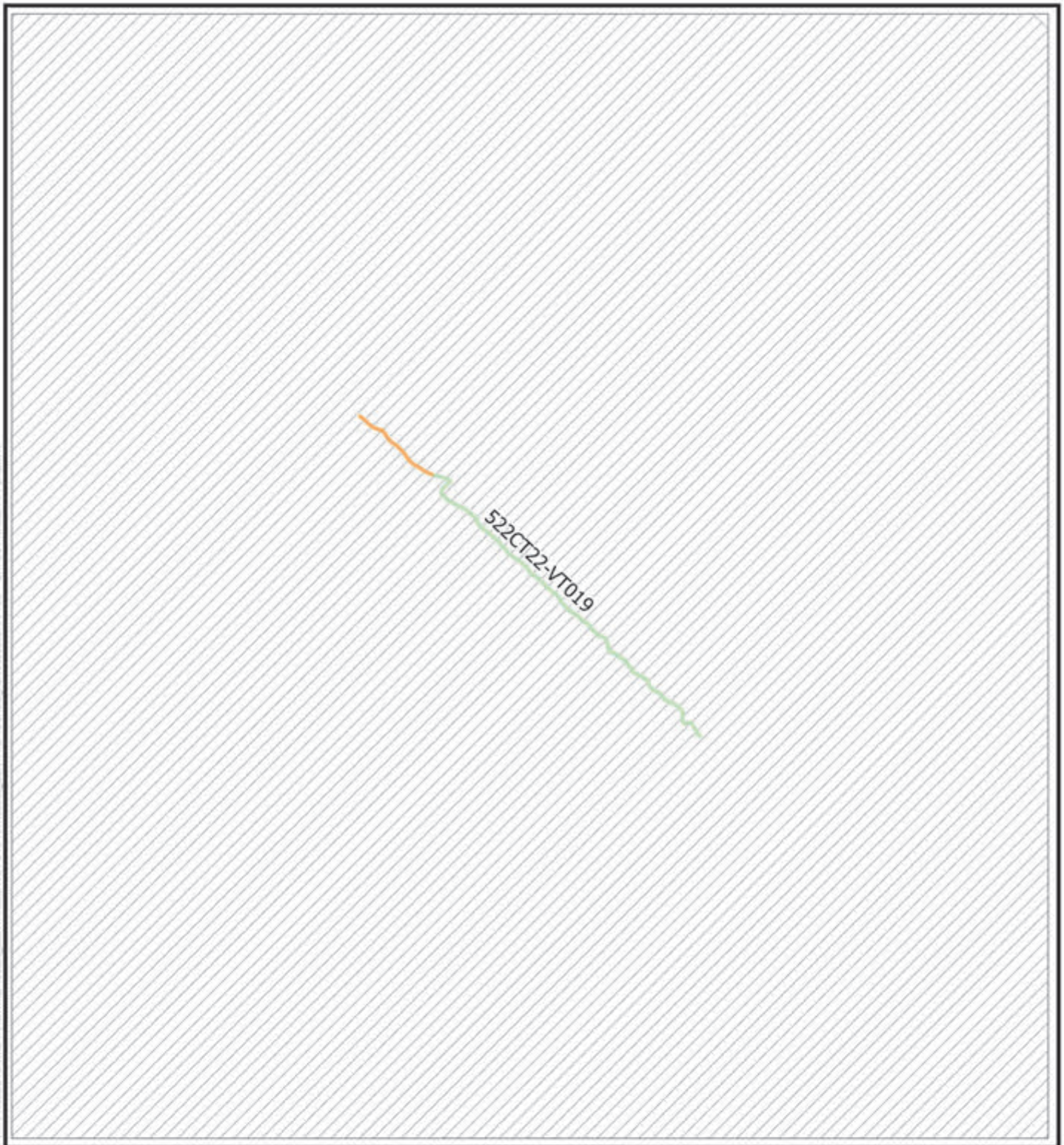
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT018

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
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0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

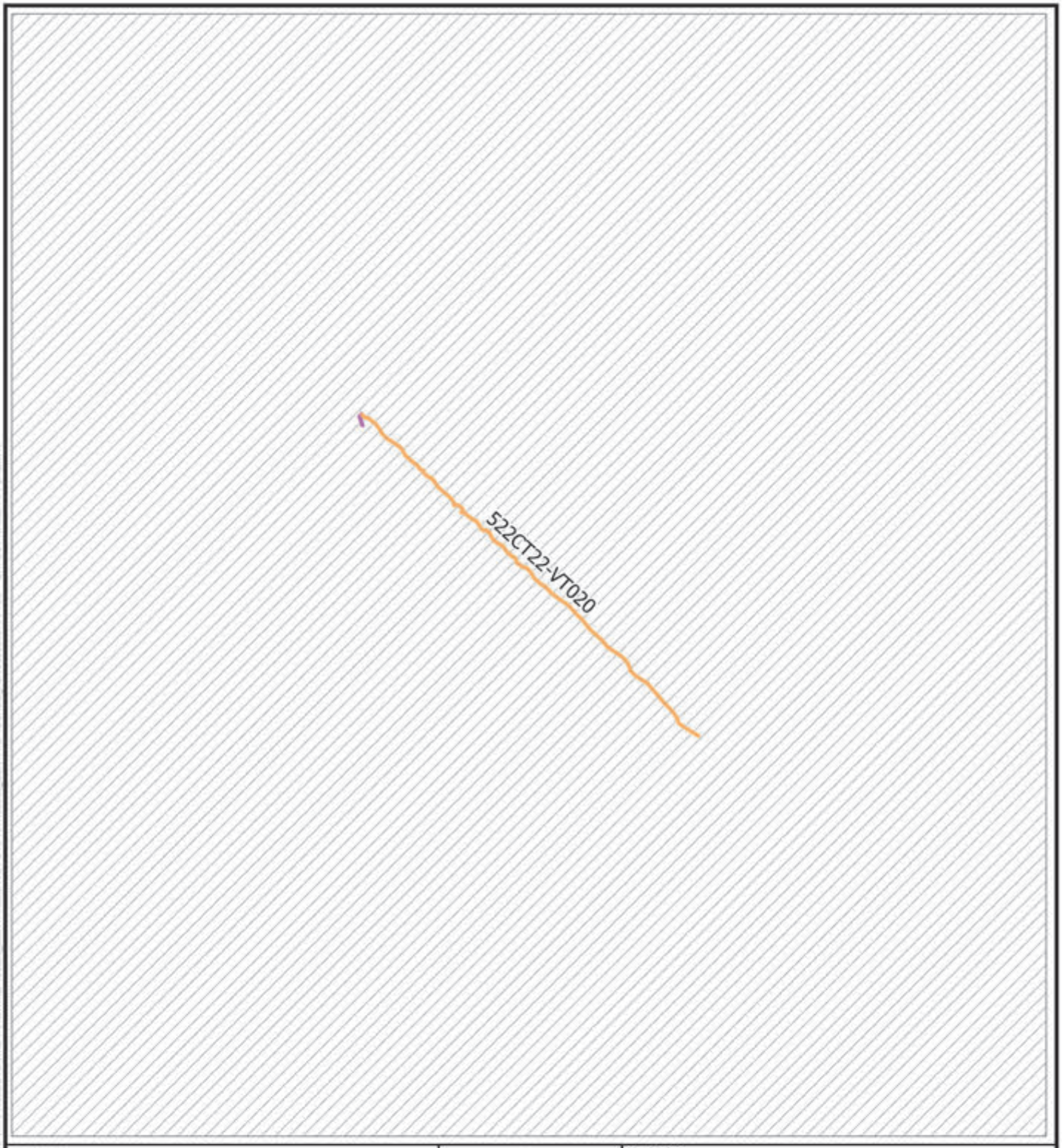
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT019	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

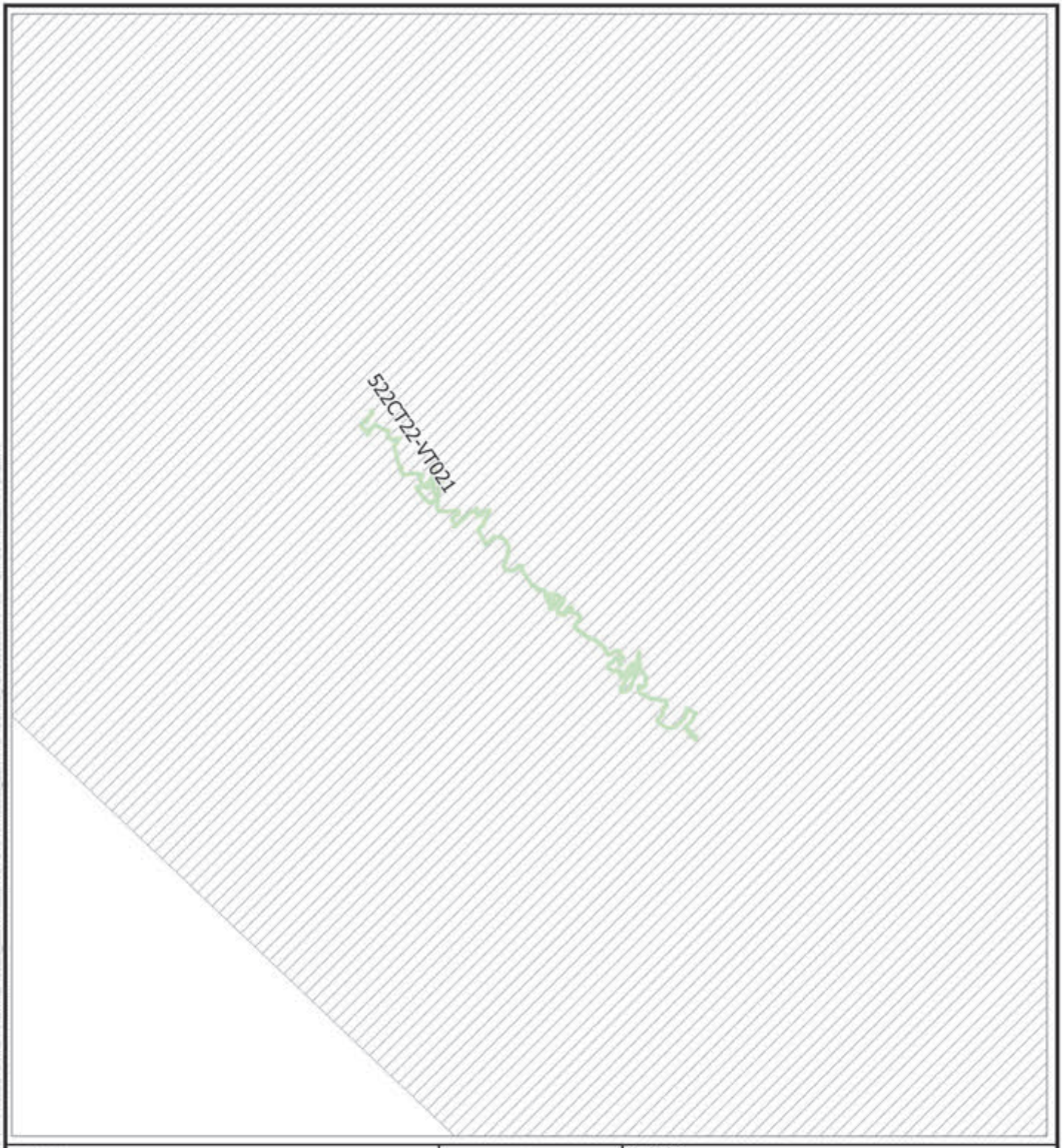
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT020	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEG\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

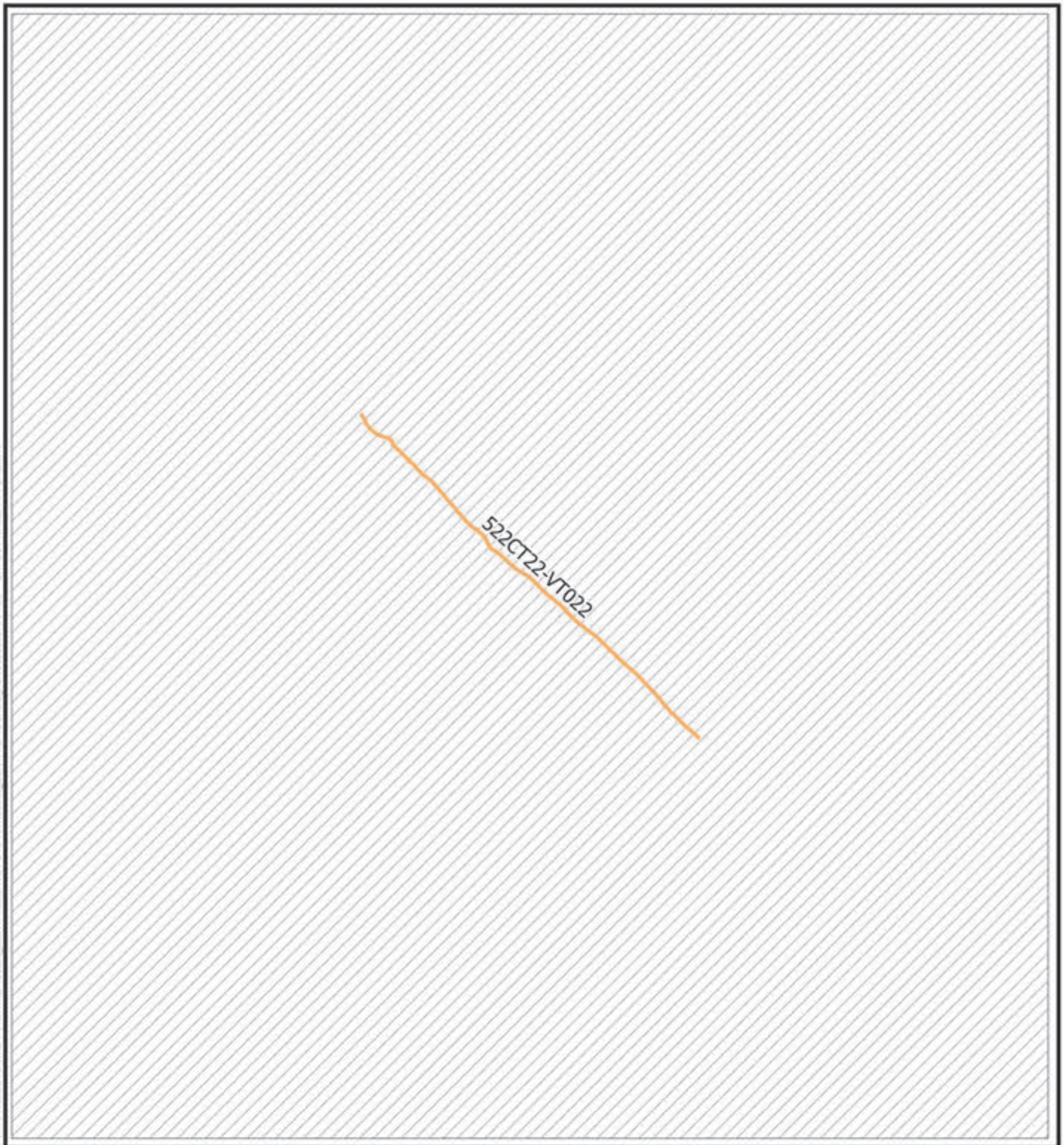
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT021

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT022

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

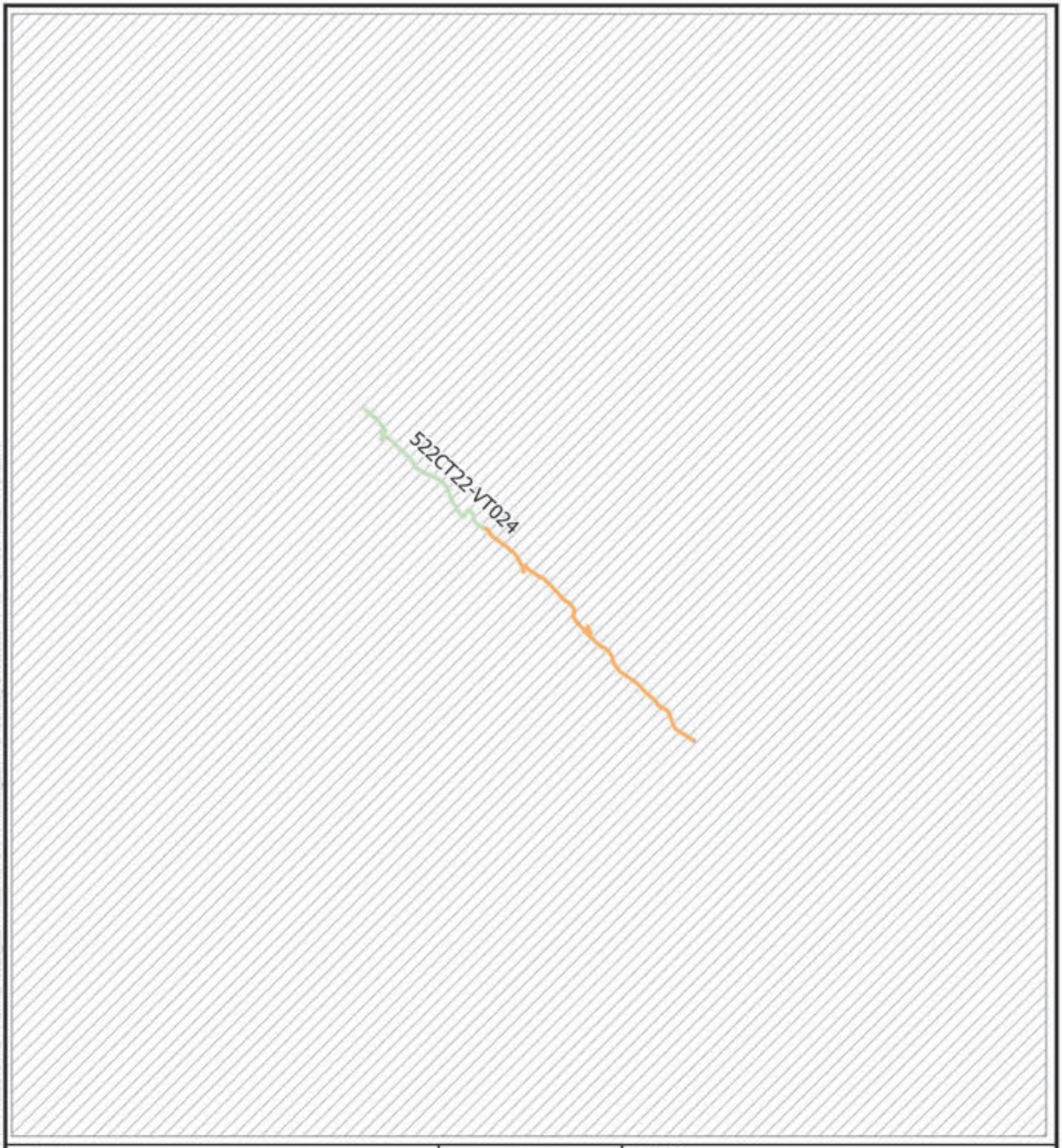
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT023

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

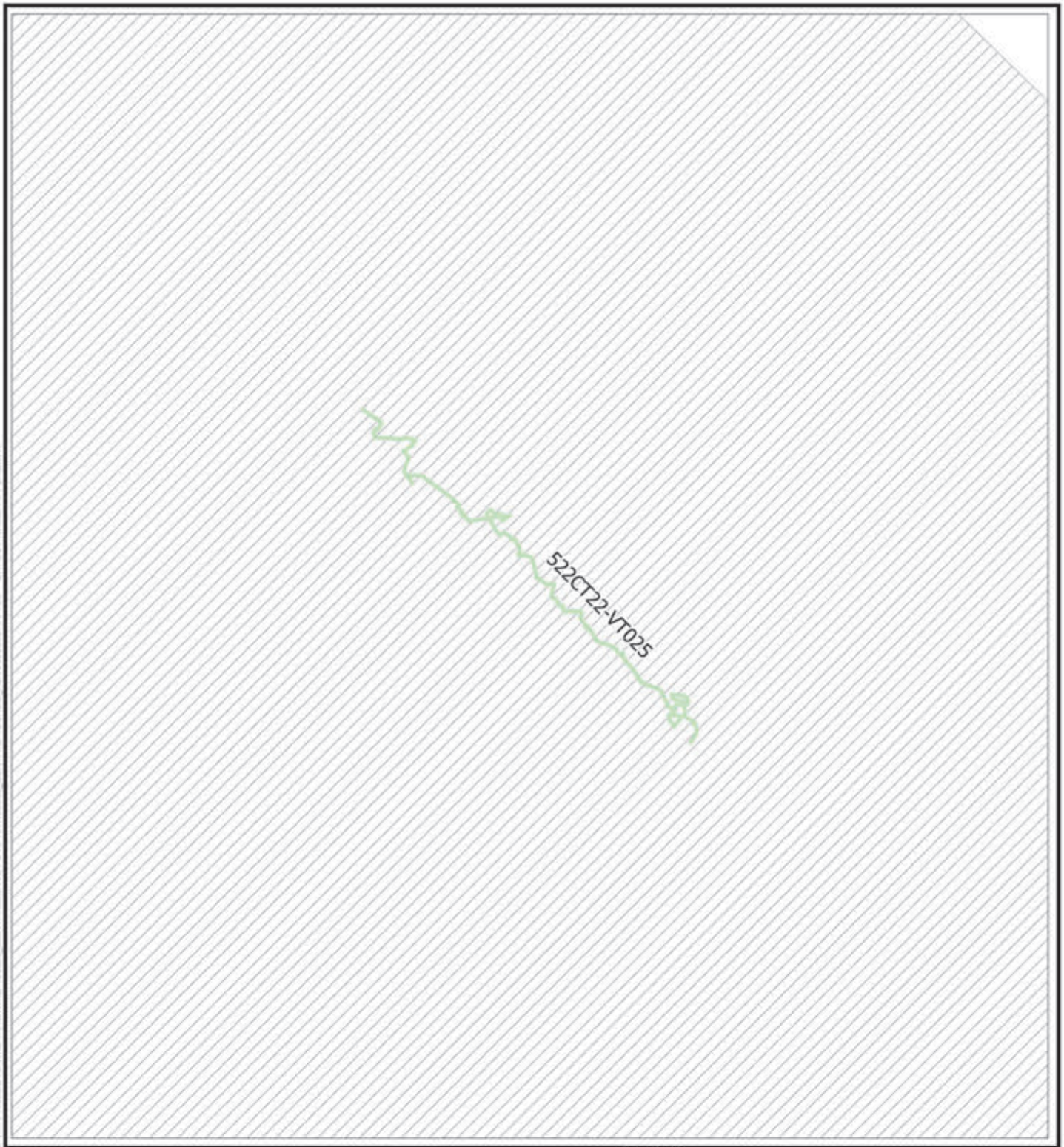
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT024

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

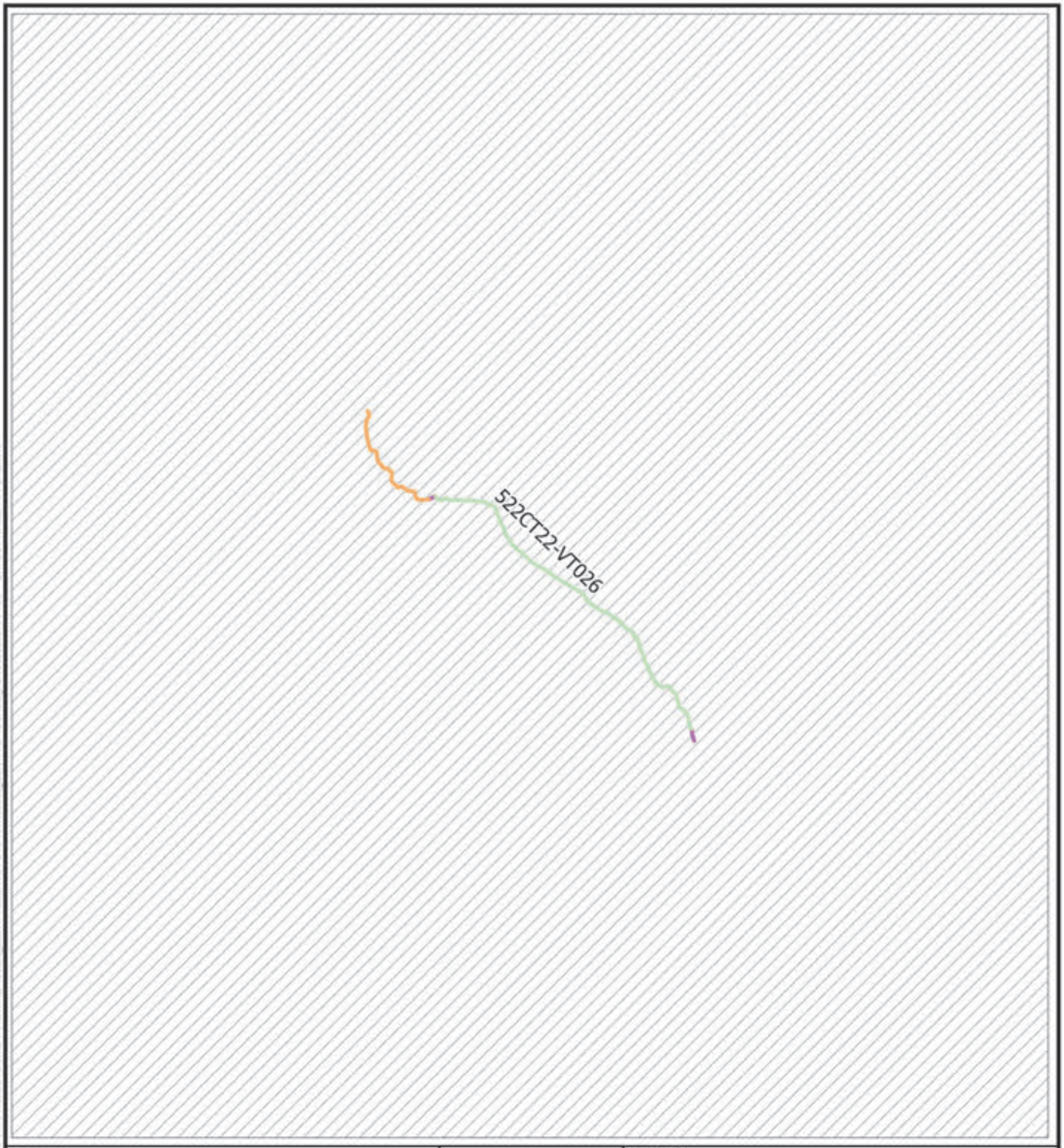
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT025

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

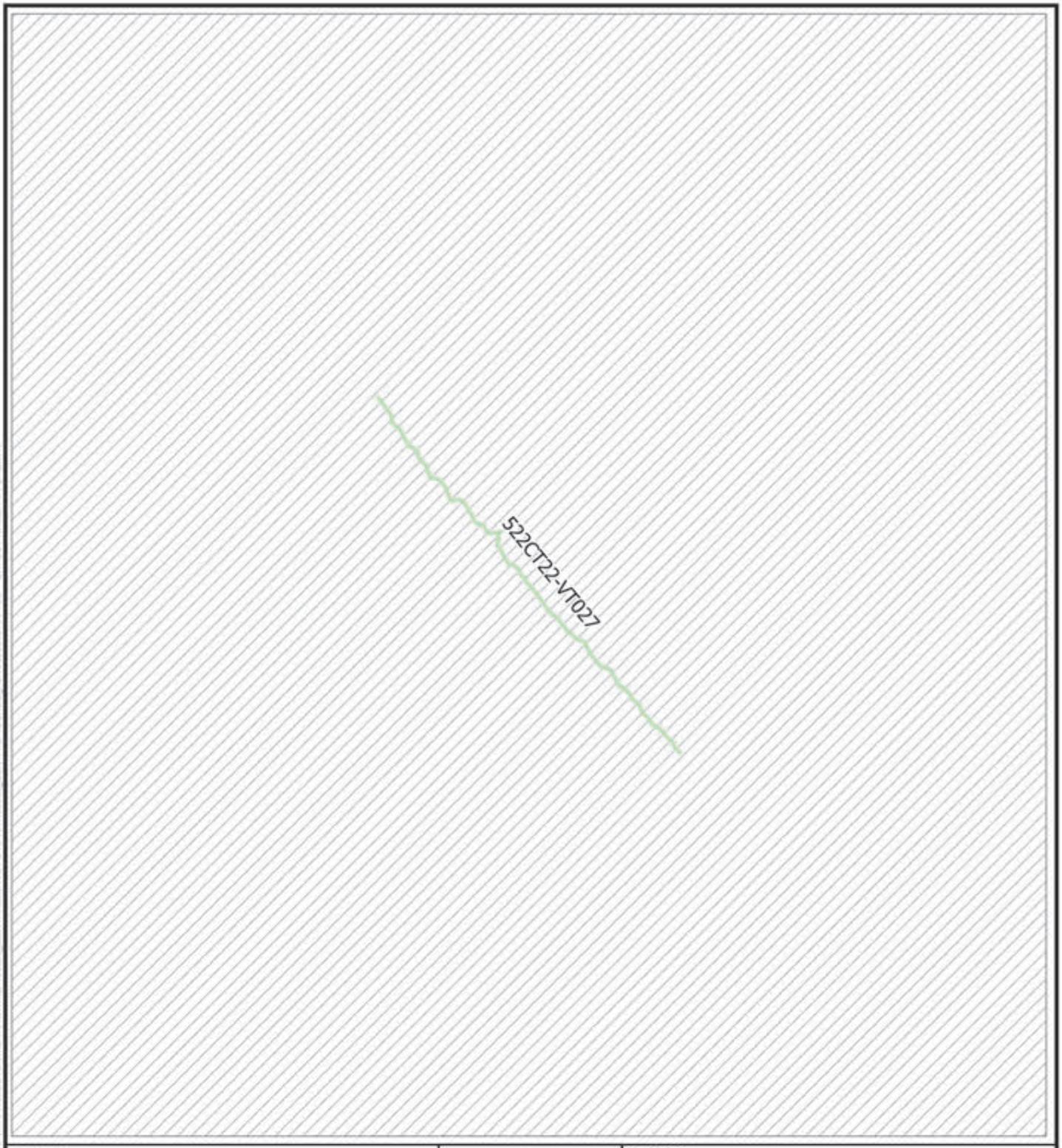
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT026

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

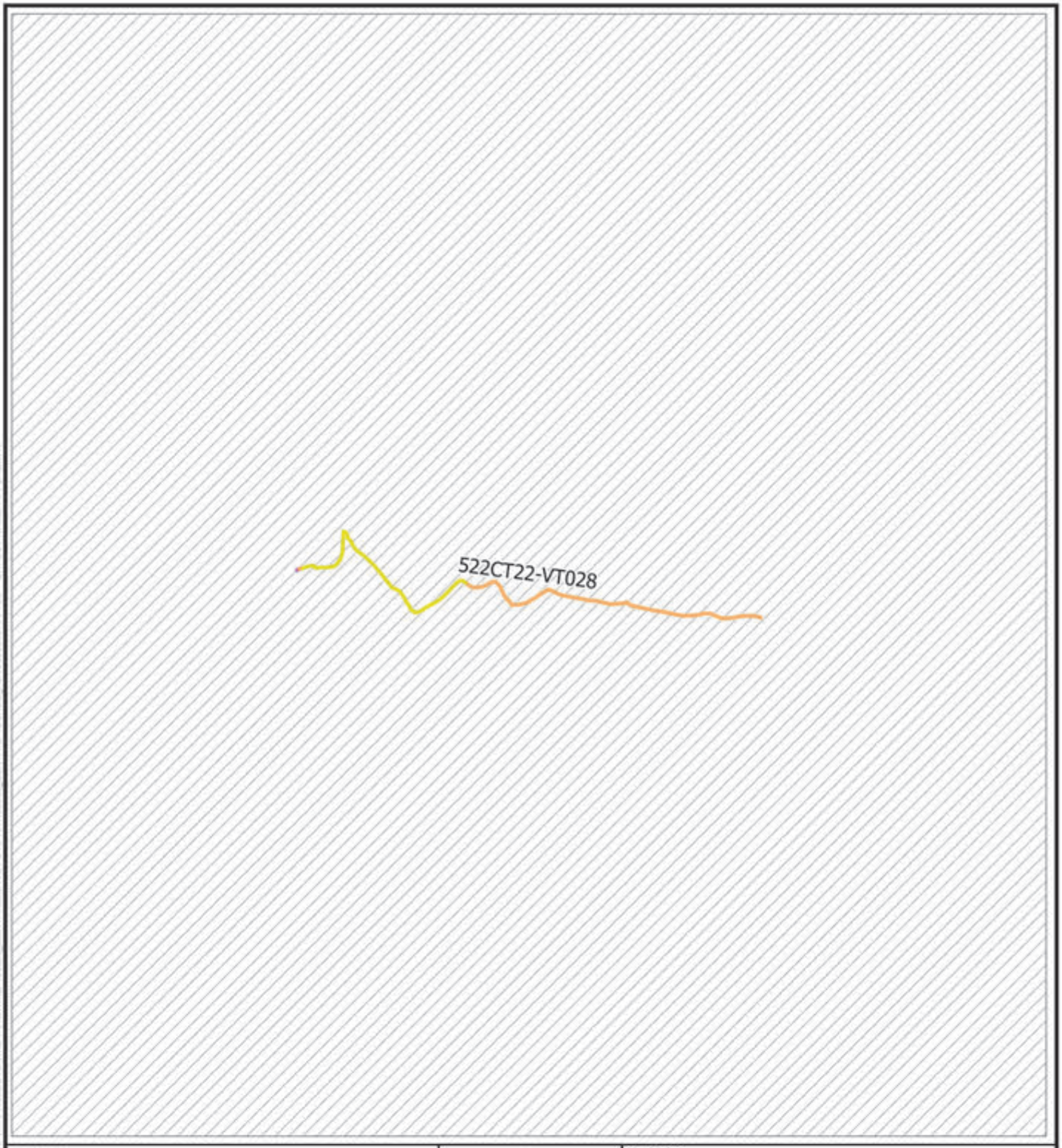
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT027

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

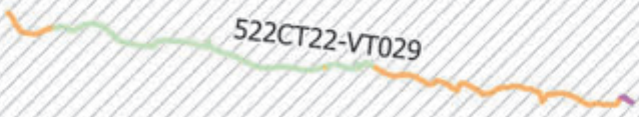
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT028

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

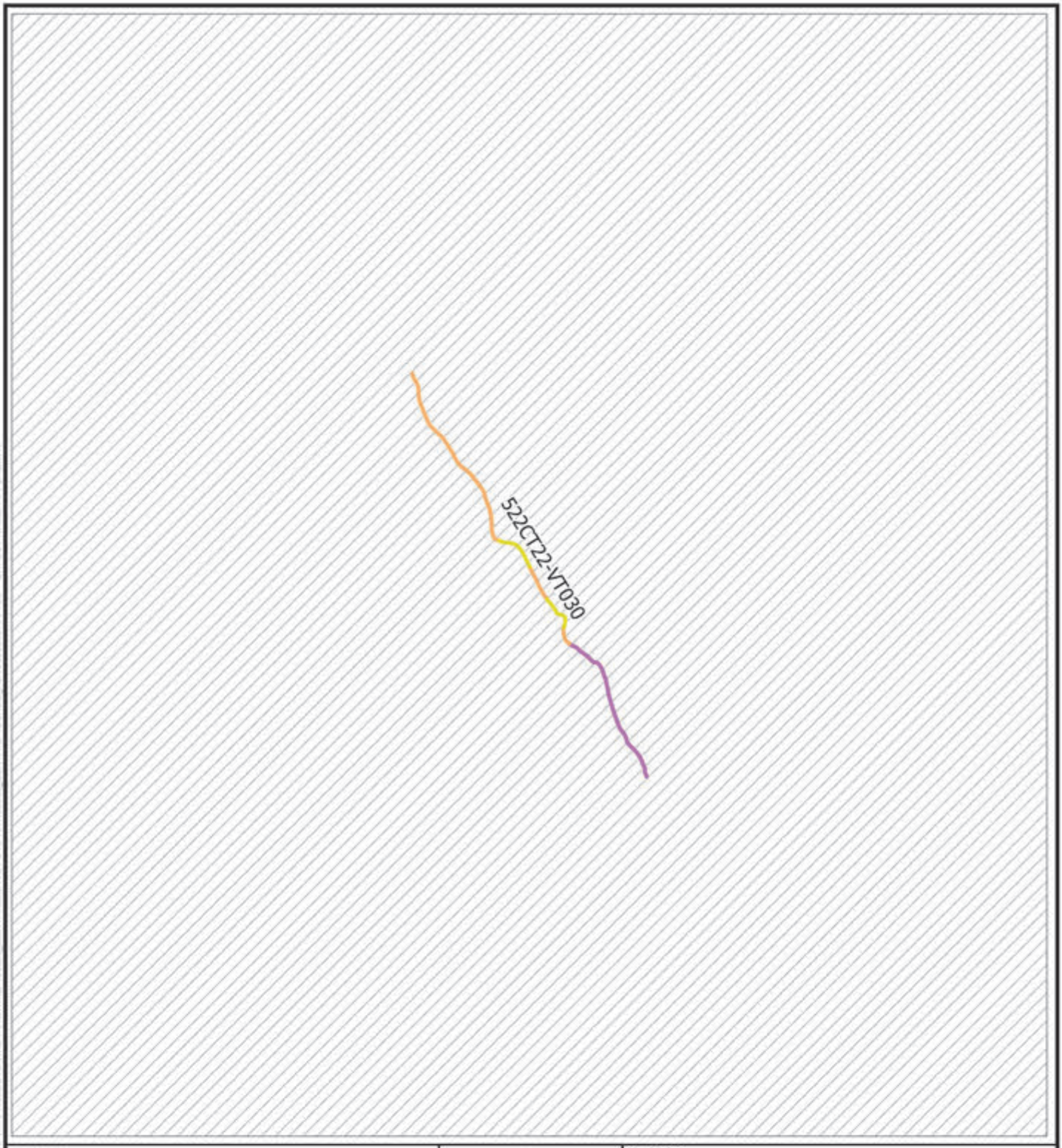
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT029

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

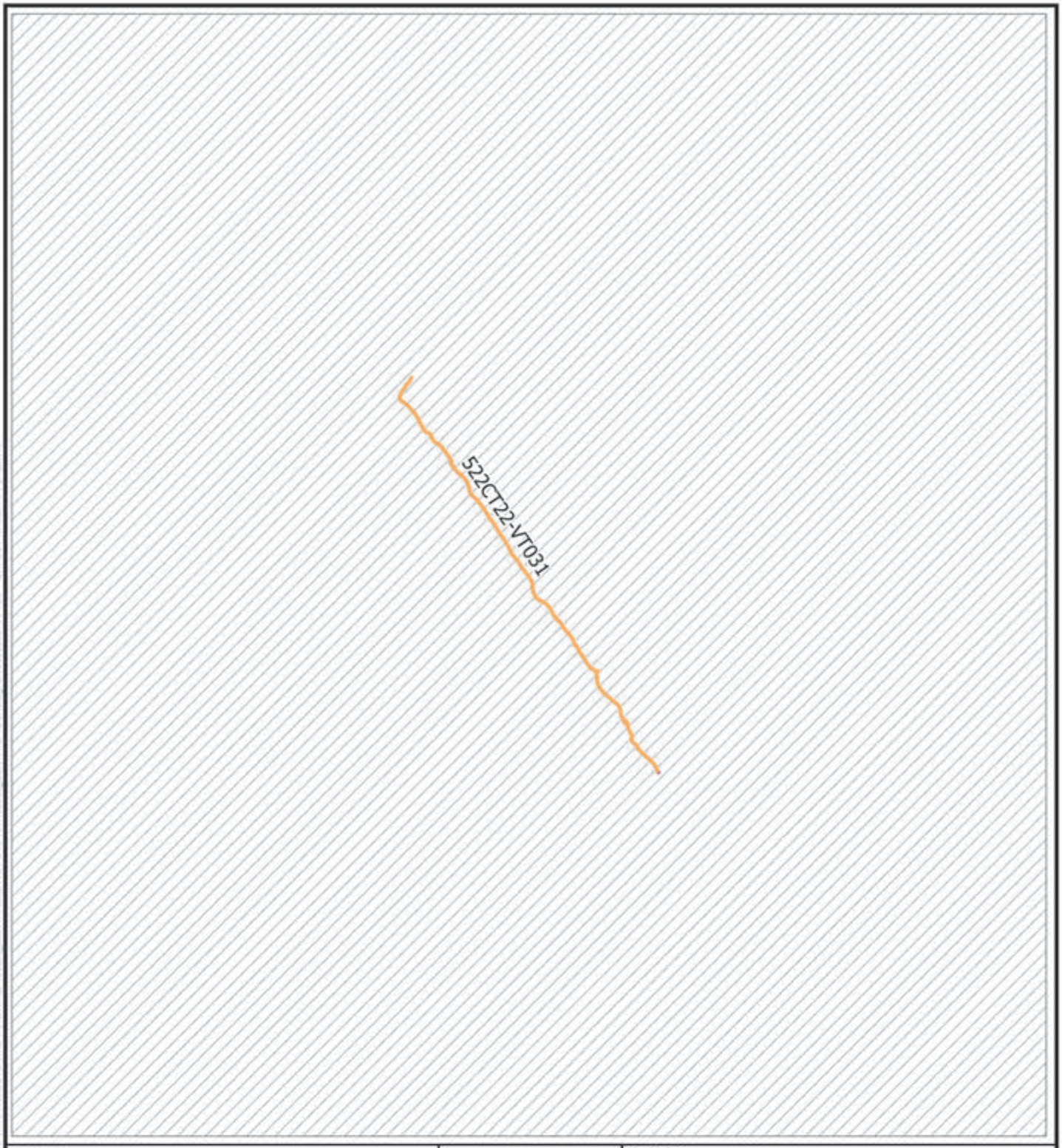
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT030	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

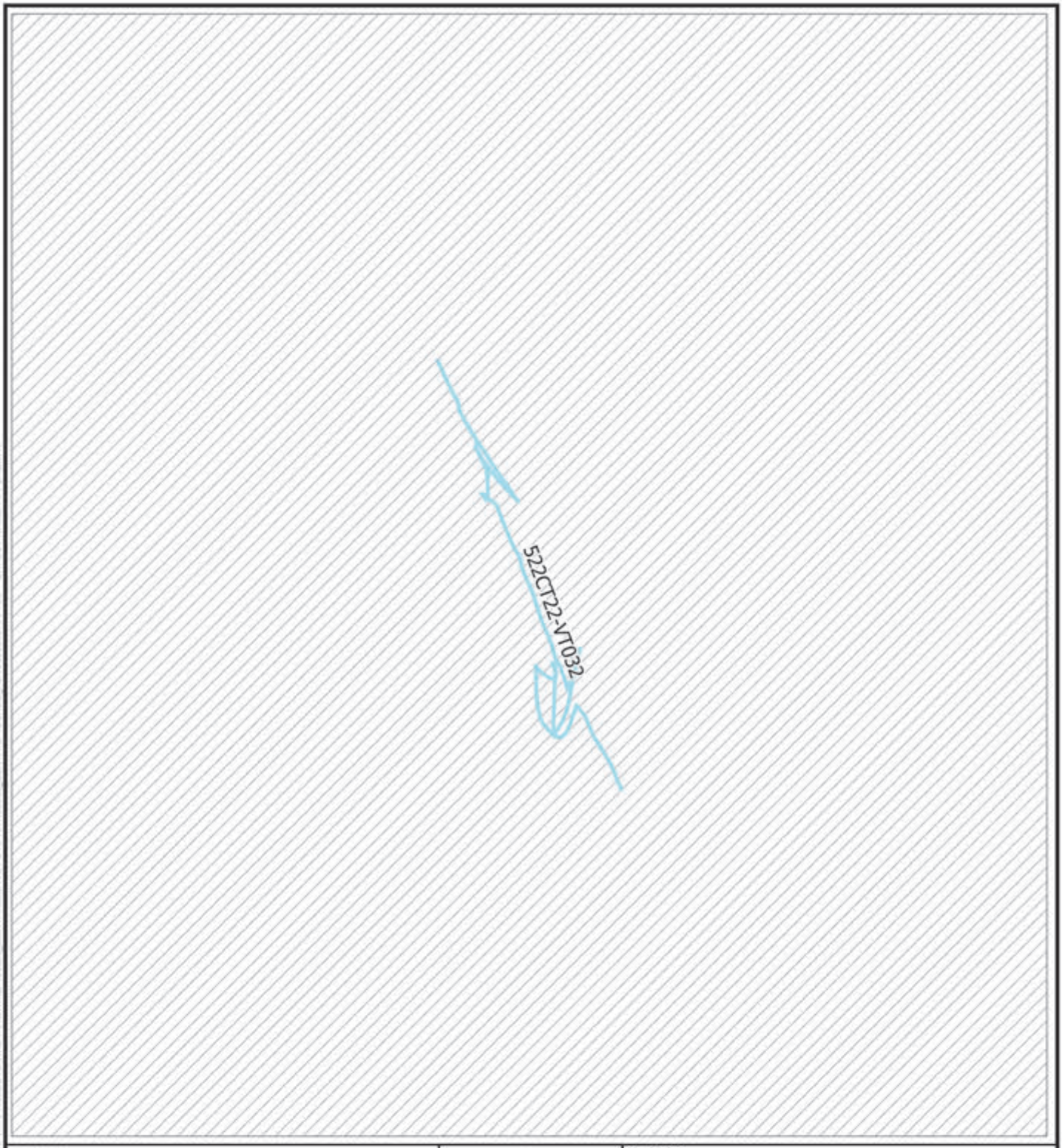
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT031	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Gravelly

Uncharacterized - Visibility Compromised

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT032

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

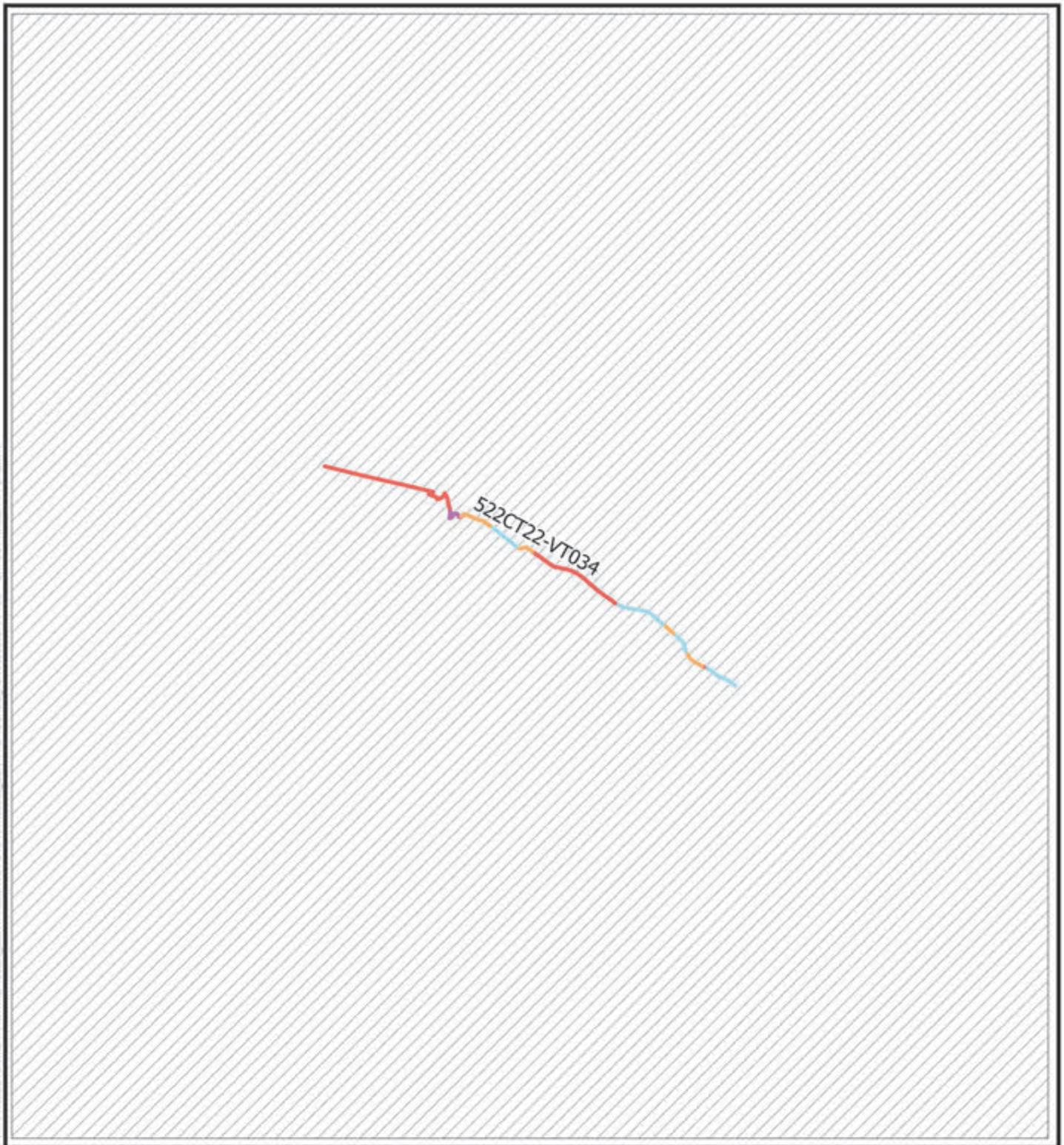
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT033	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

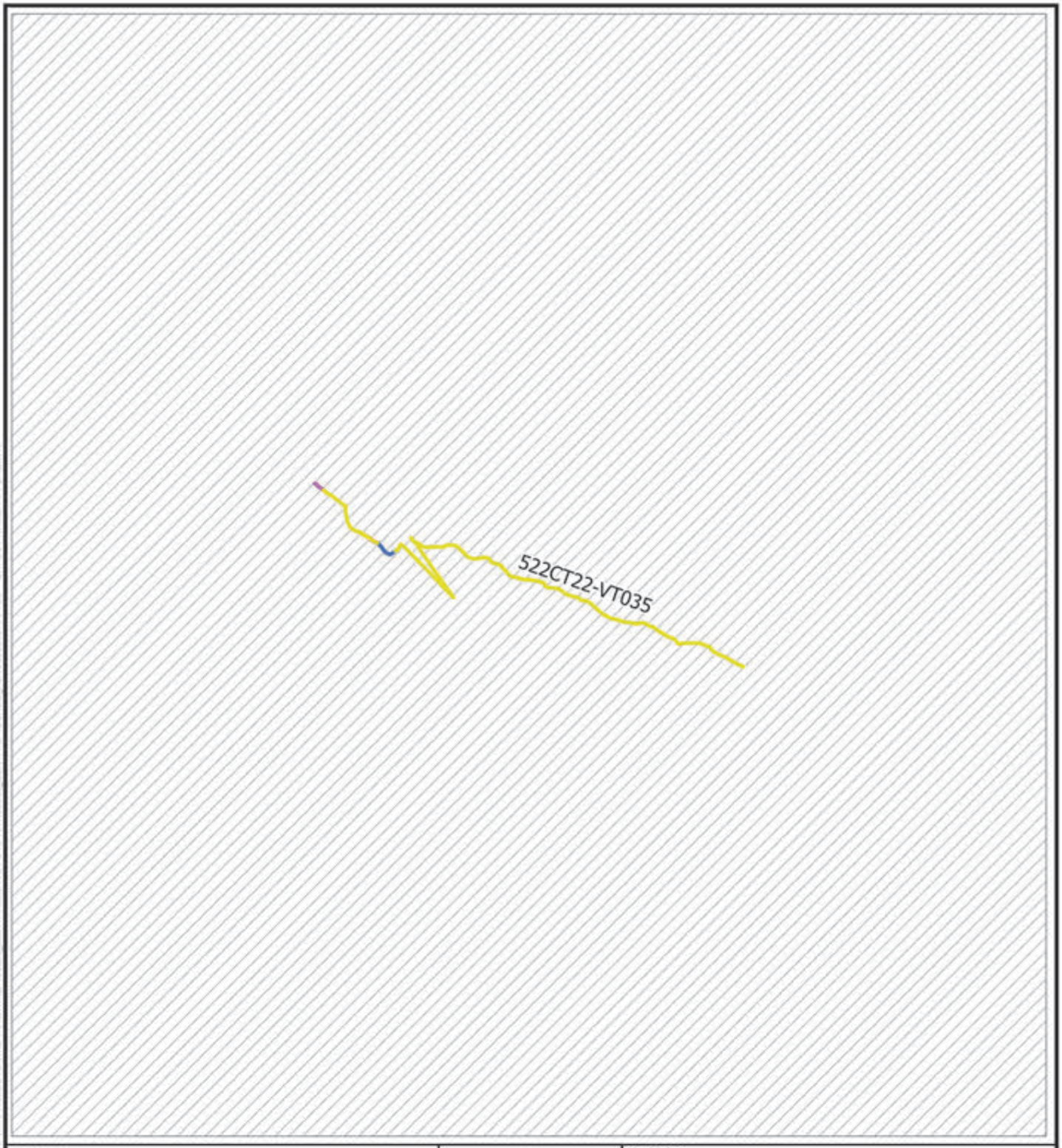
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT034

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT035

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravelly
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

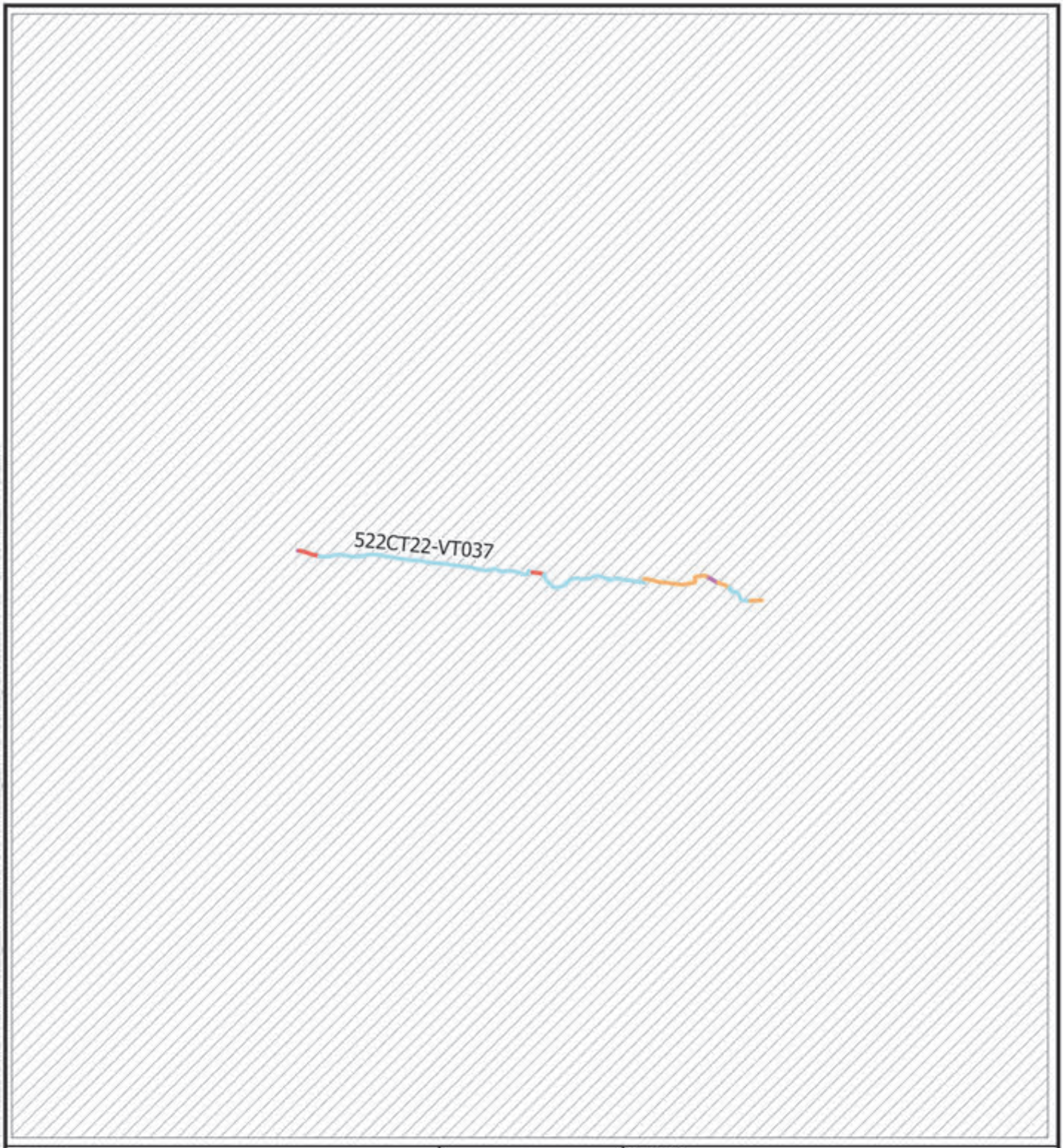
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT036

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

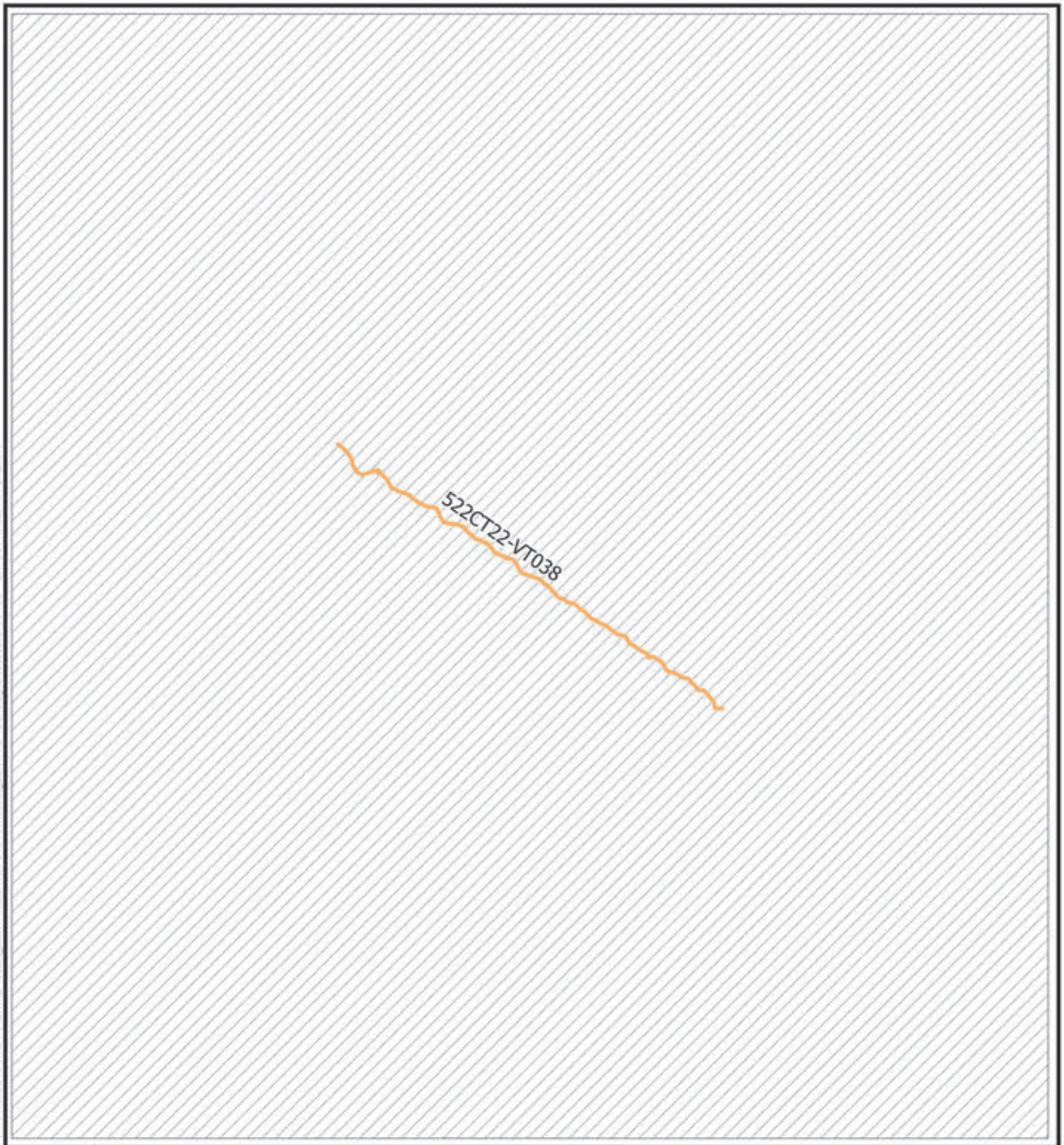
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT037

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT038

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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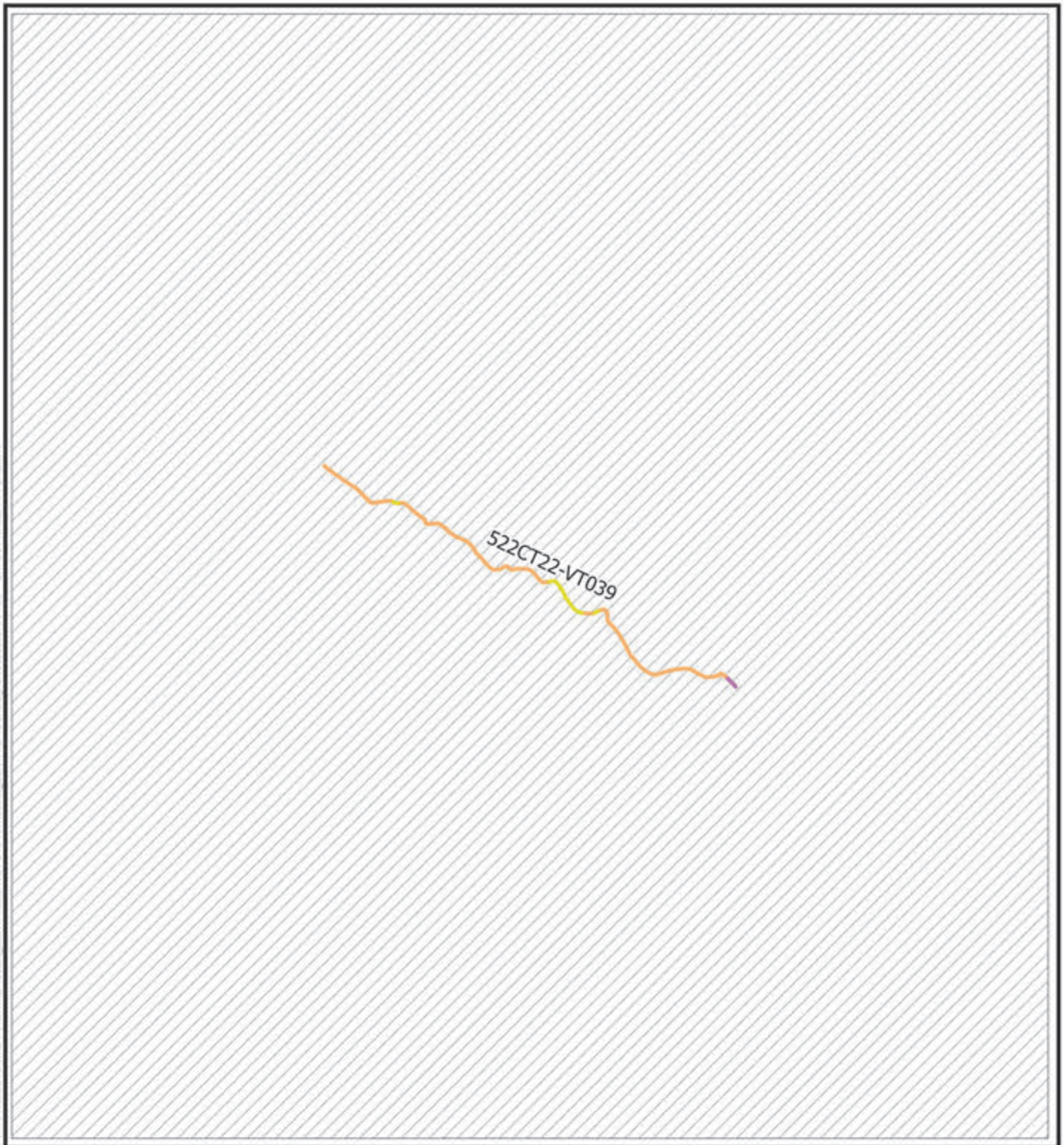


CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

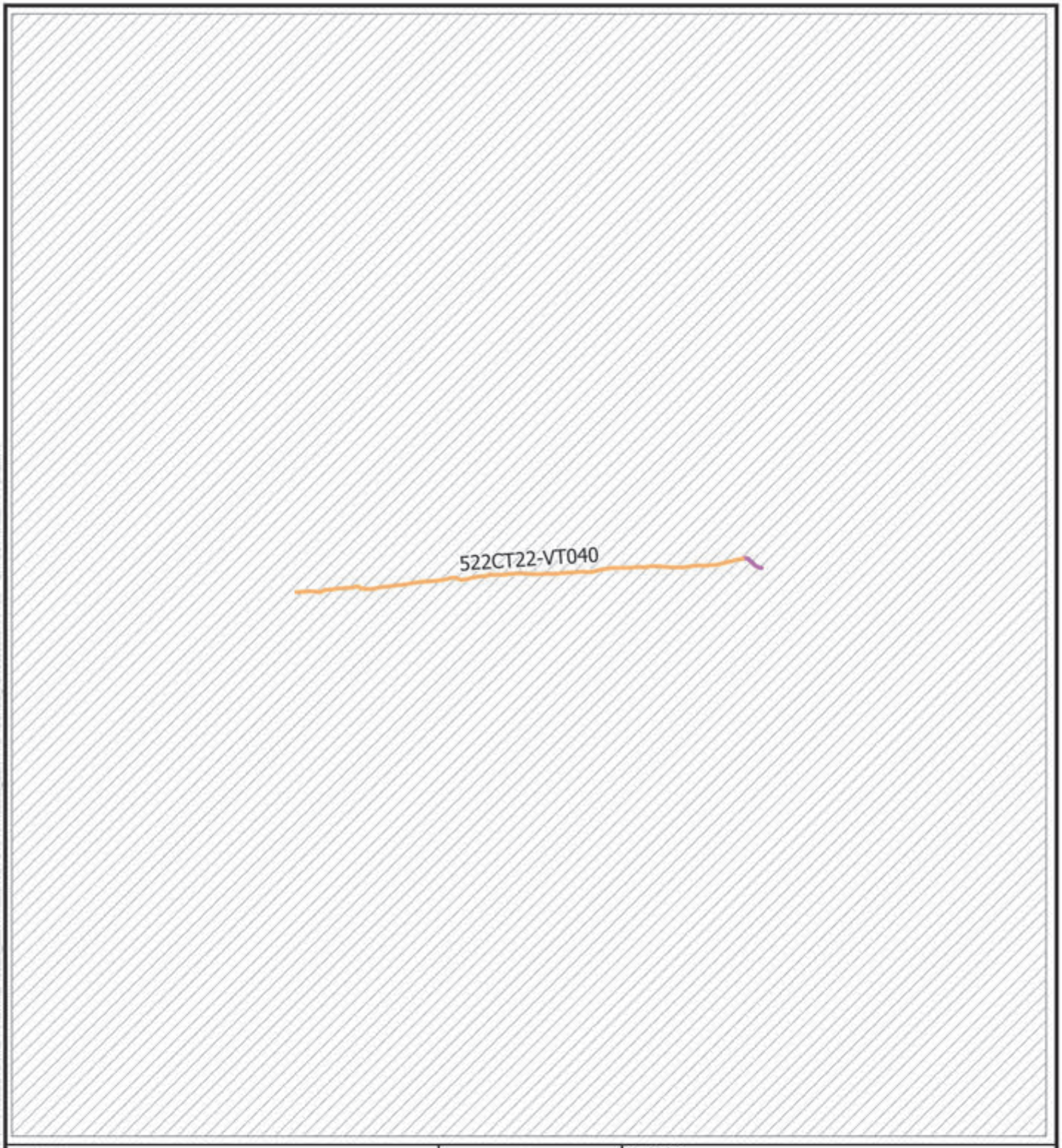
TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT039

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

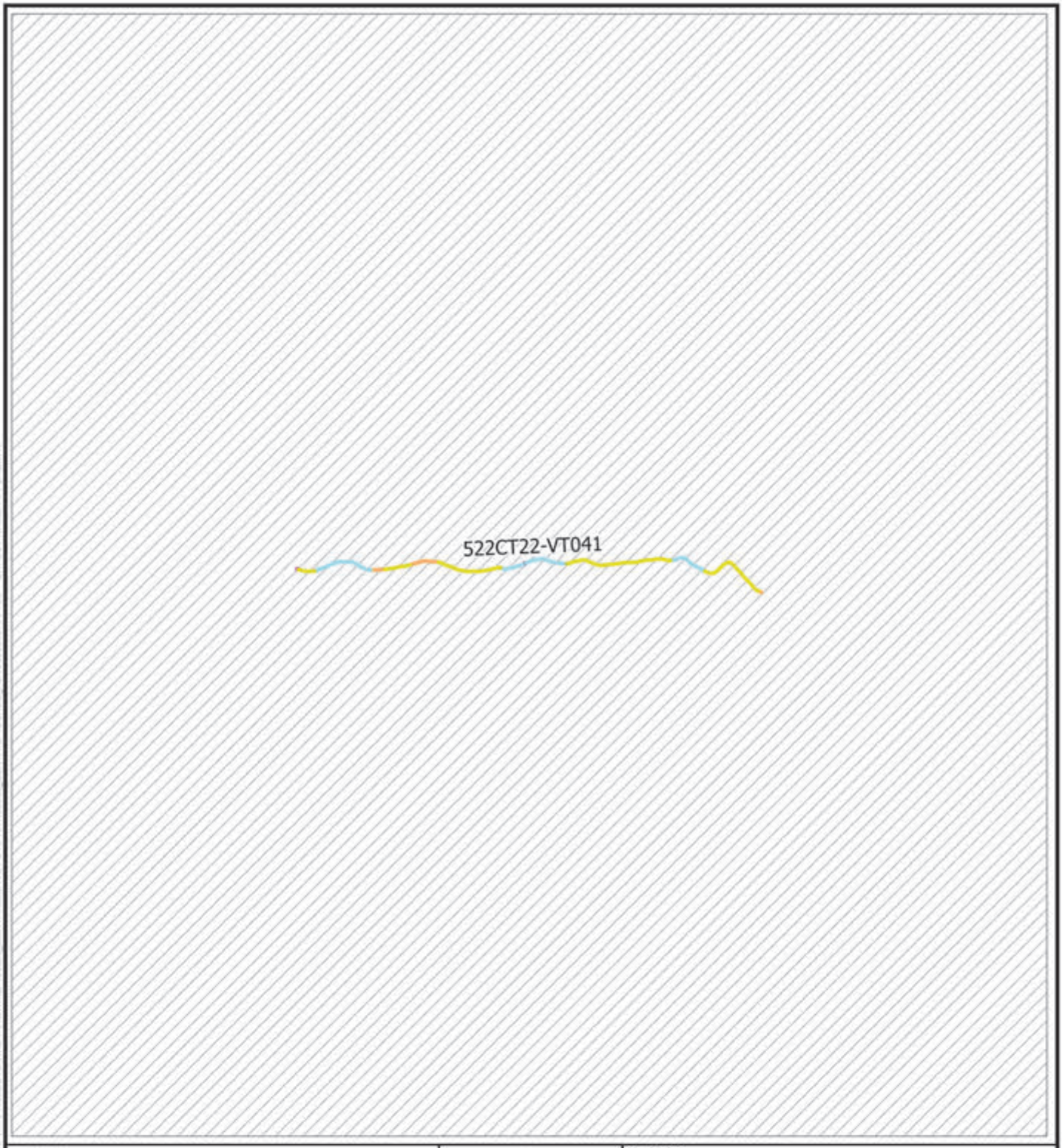
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT040

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

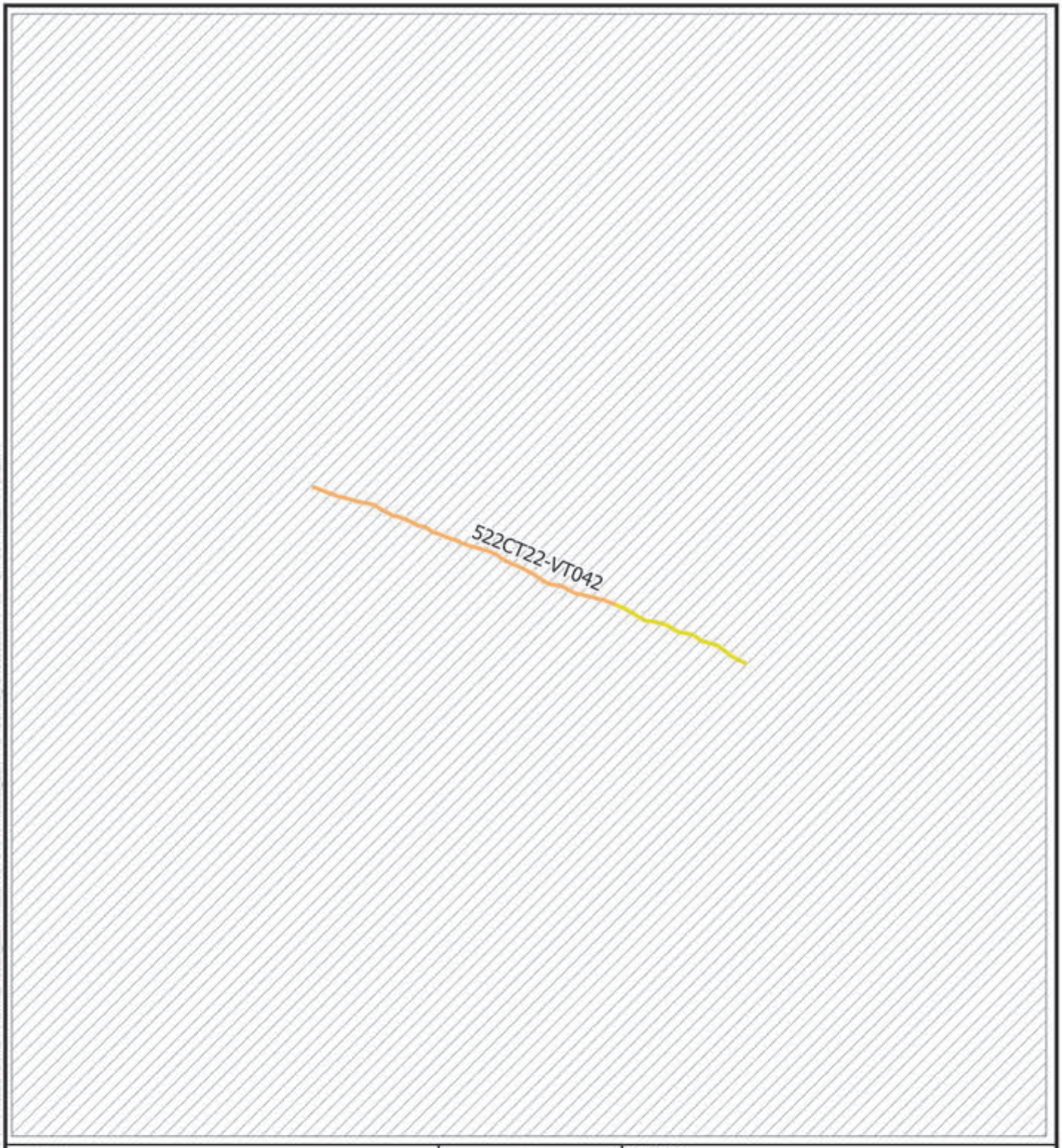
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT041

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

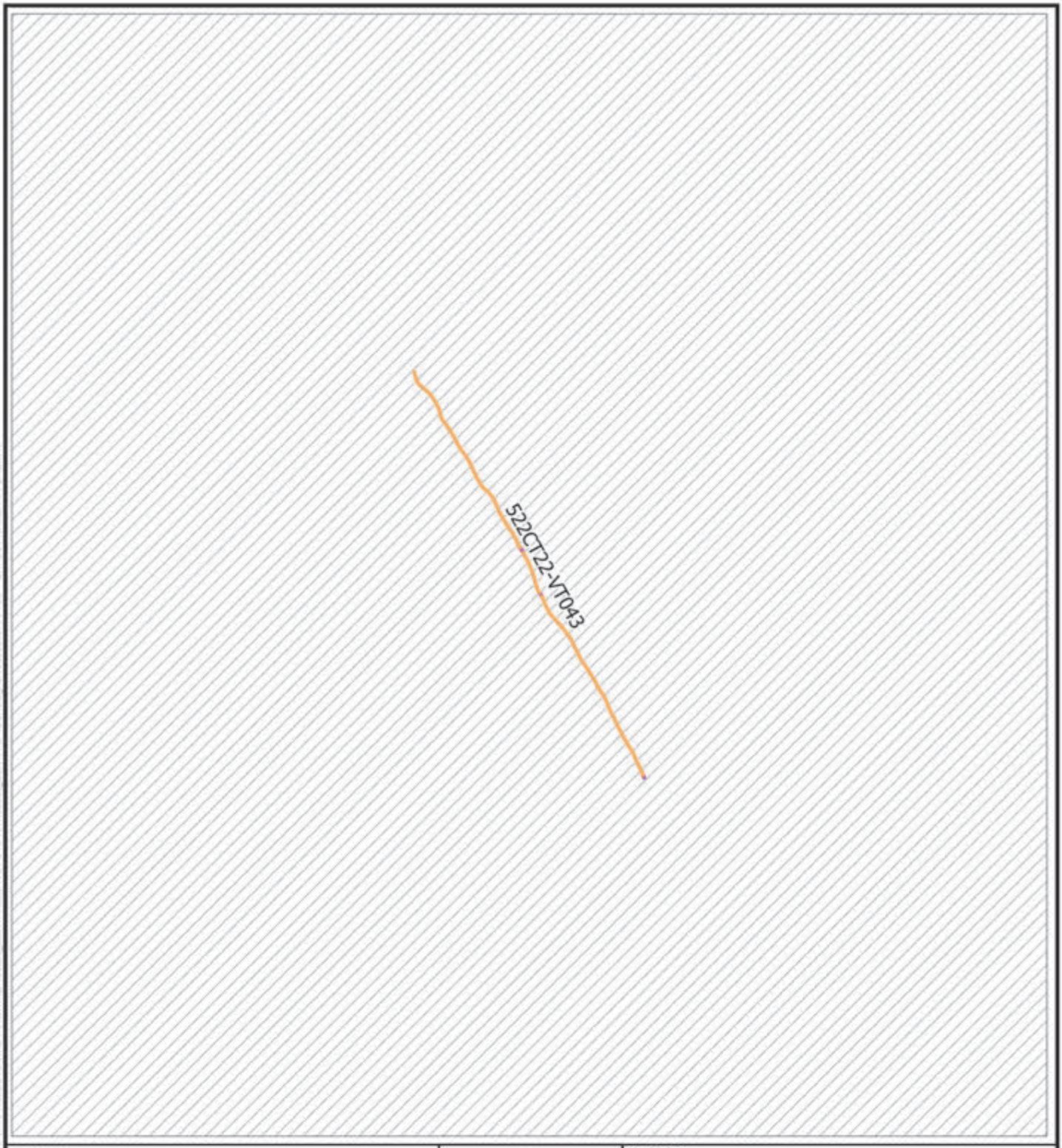
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT042

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

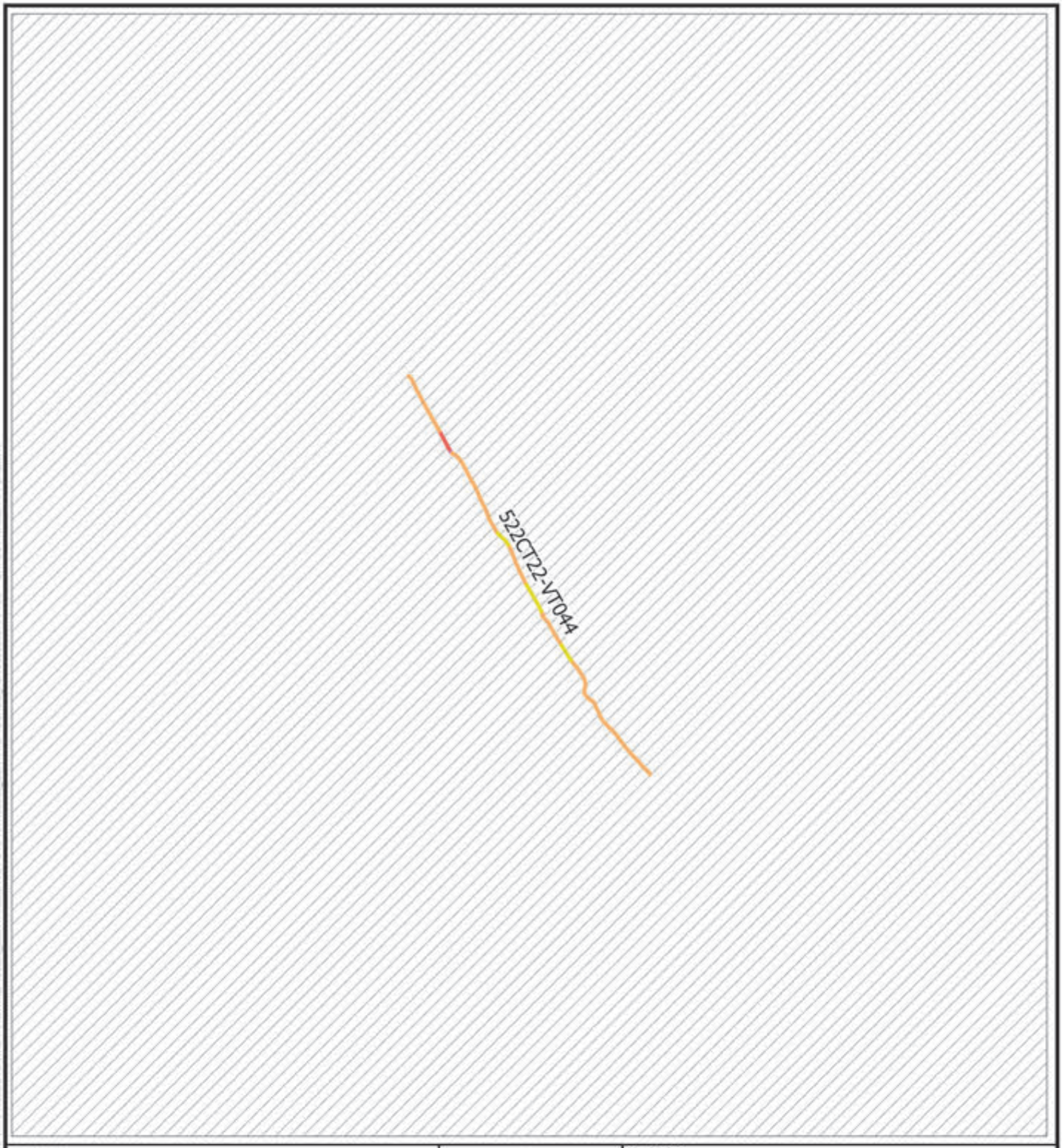
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT043

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

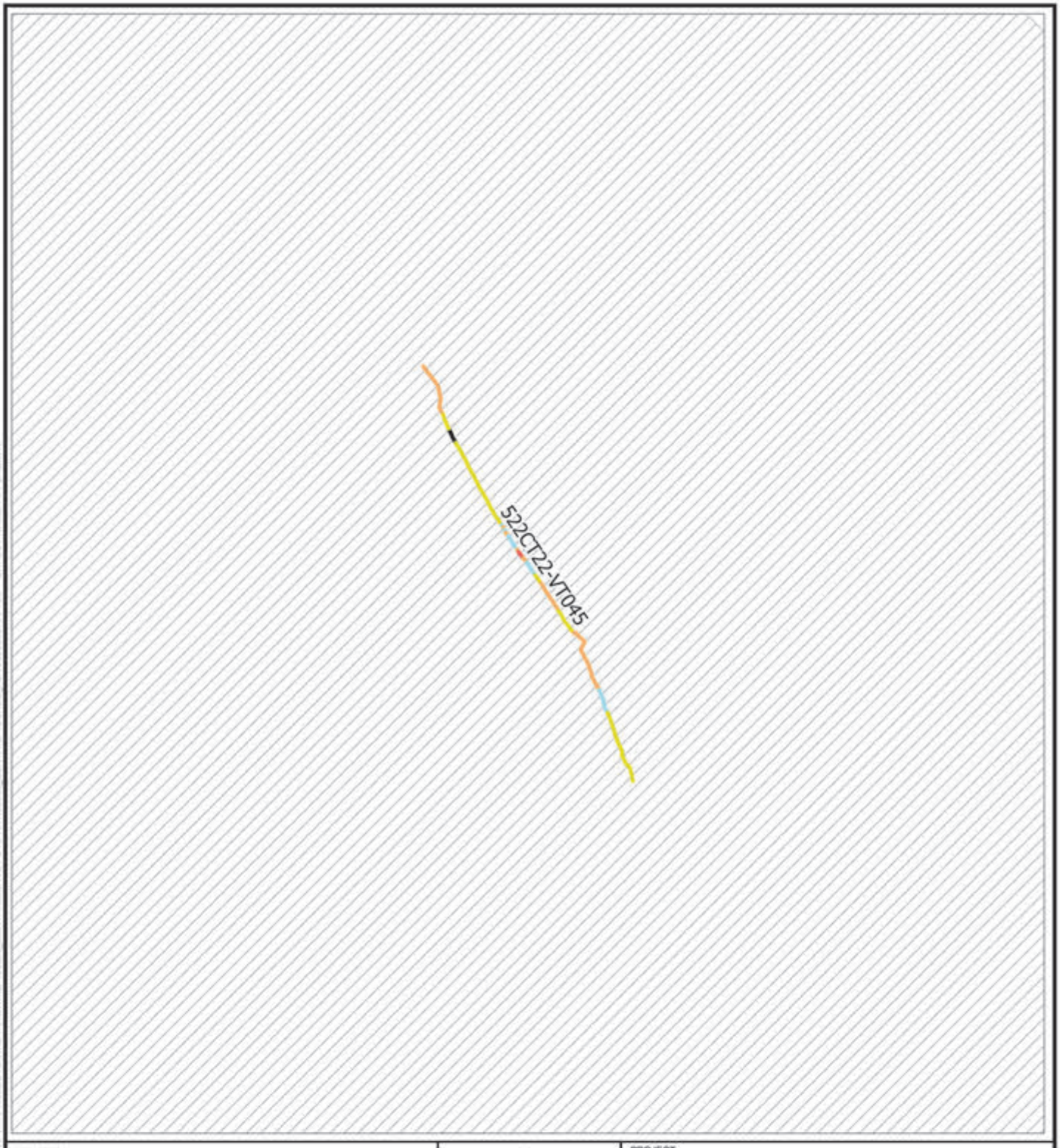
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT044

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Bedrock
Gravel Mixes
Gravelly
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

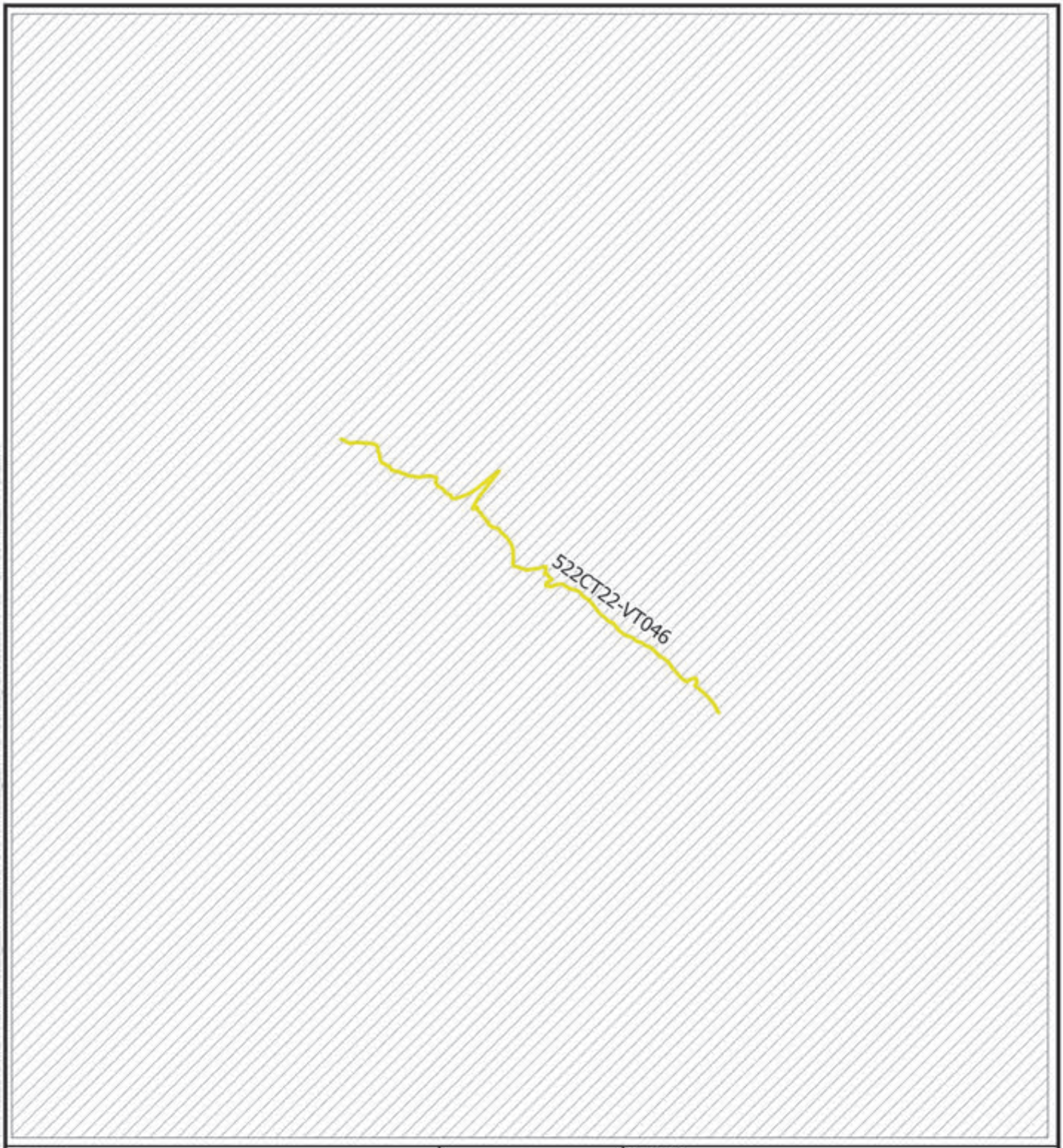
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT045

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_M_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX M



CT Offshore Export Cable Corridor

Shell

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

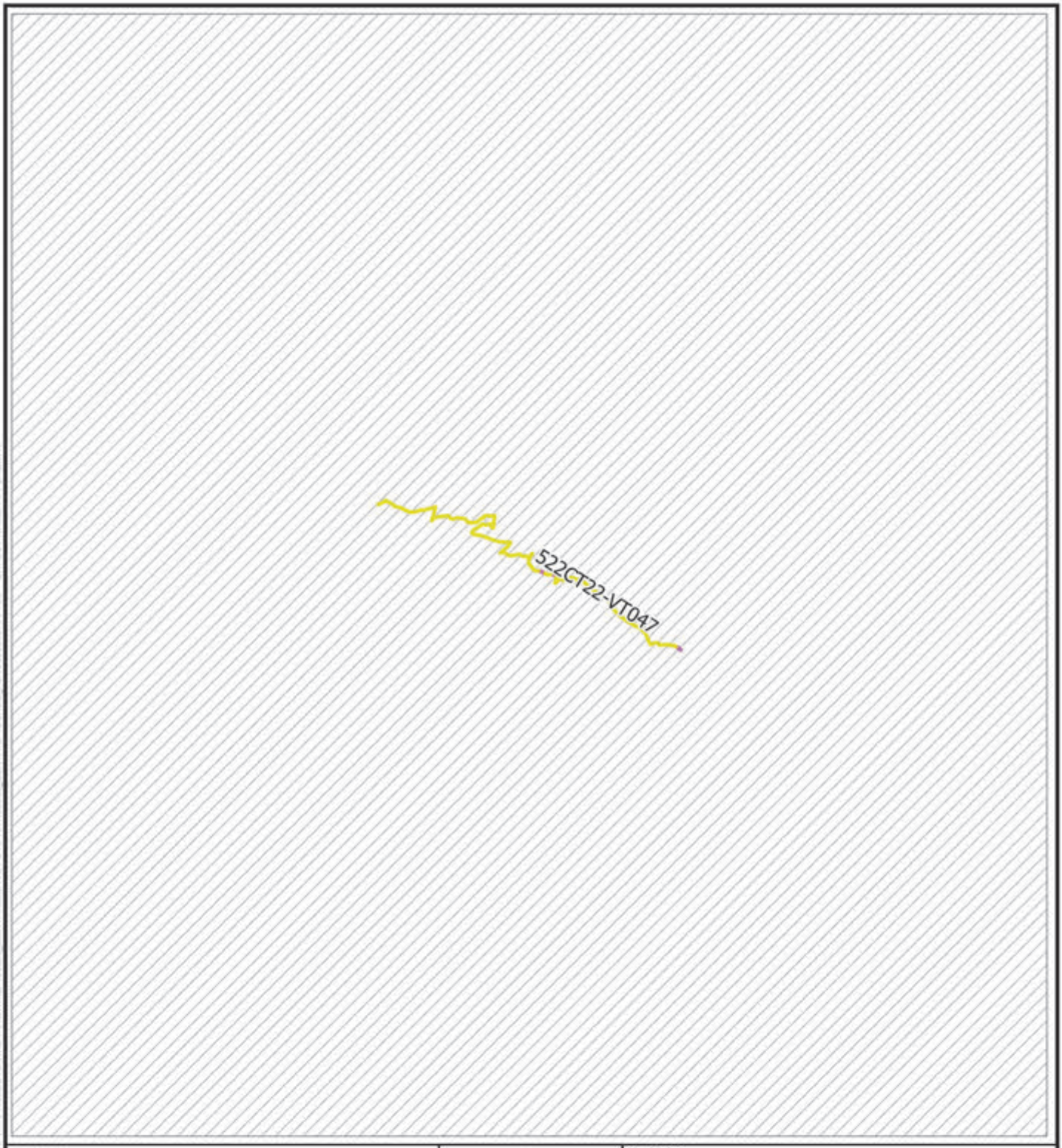
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT046

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

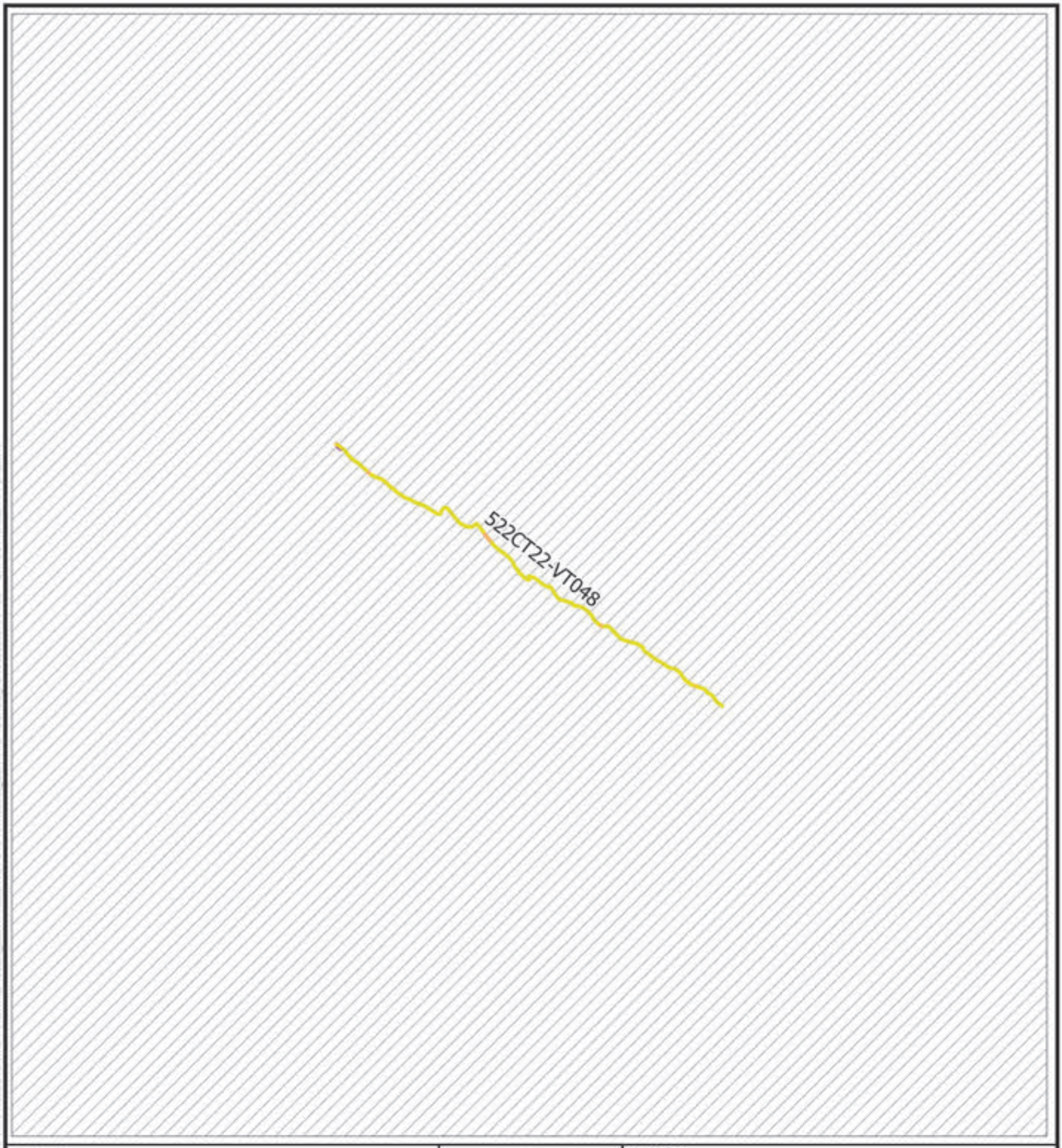
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT047	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

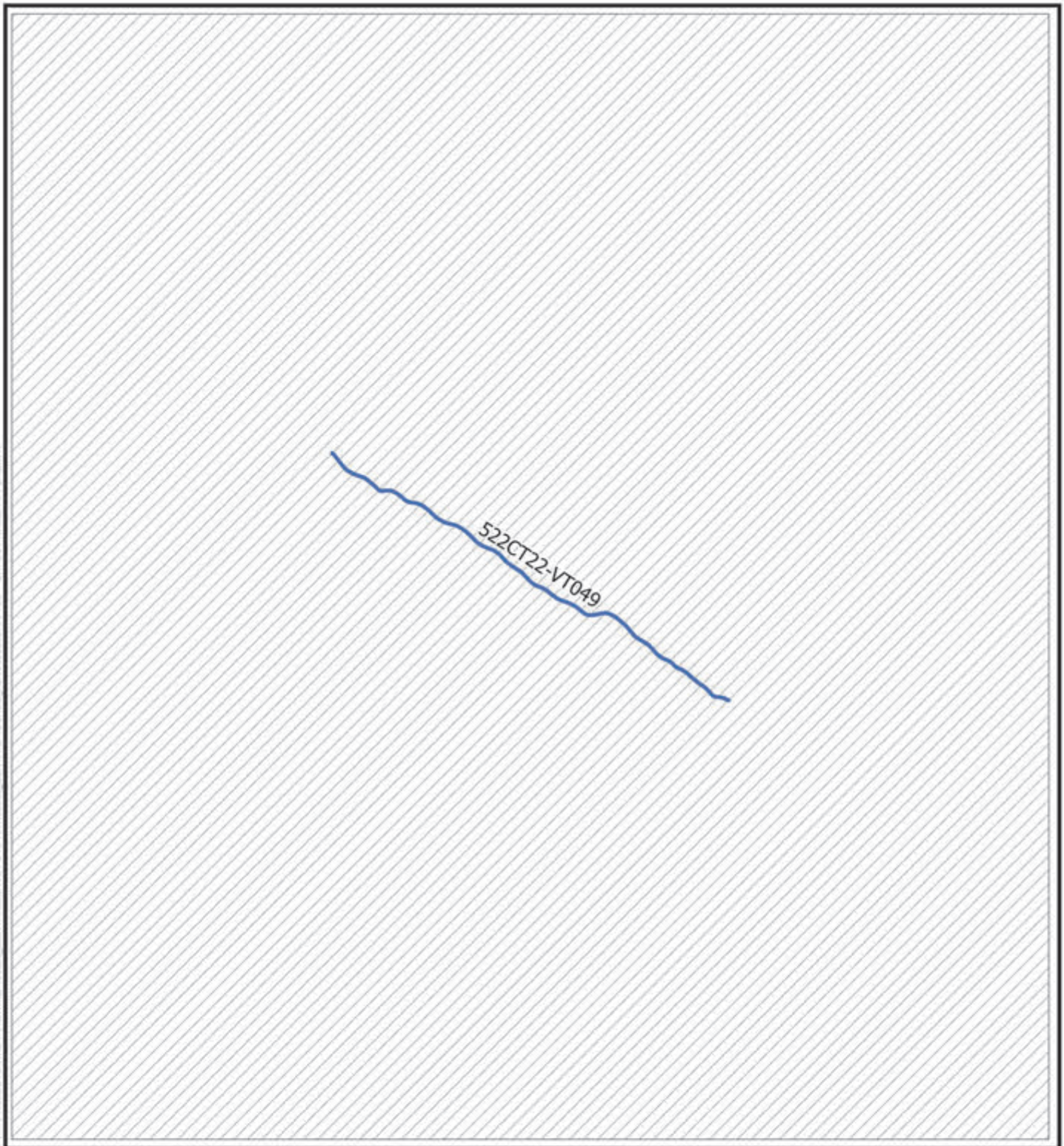
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT048	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Gravel

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

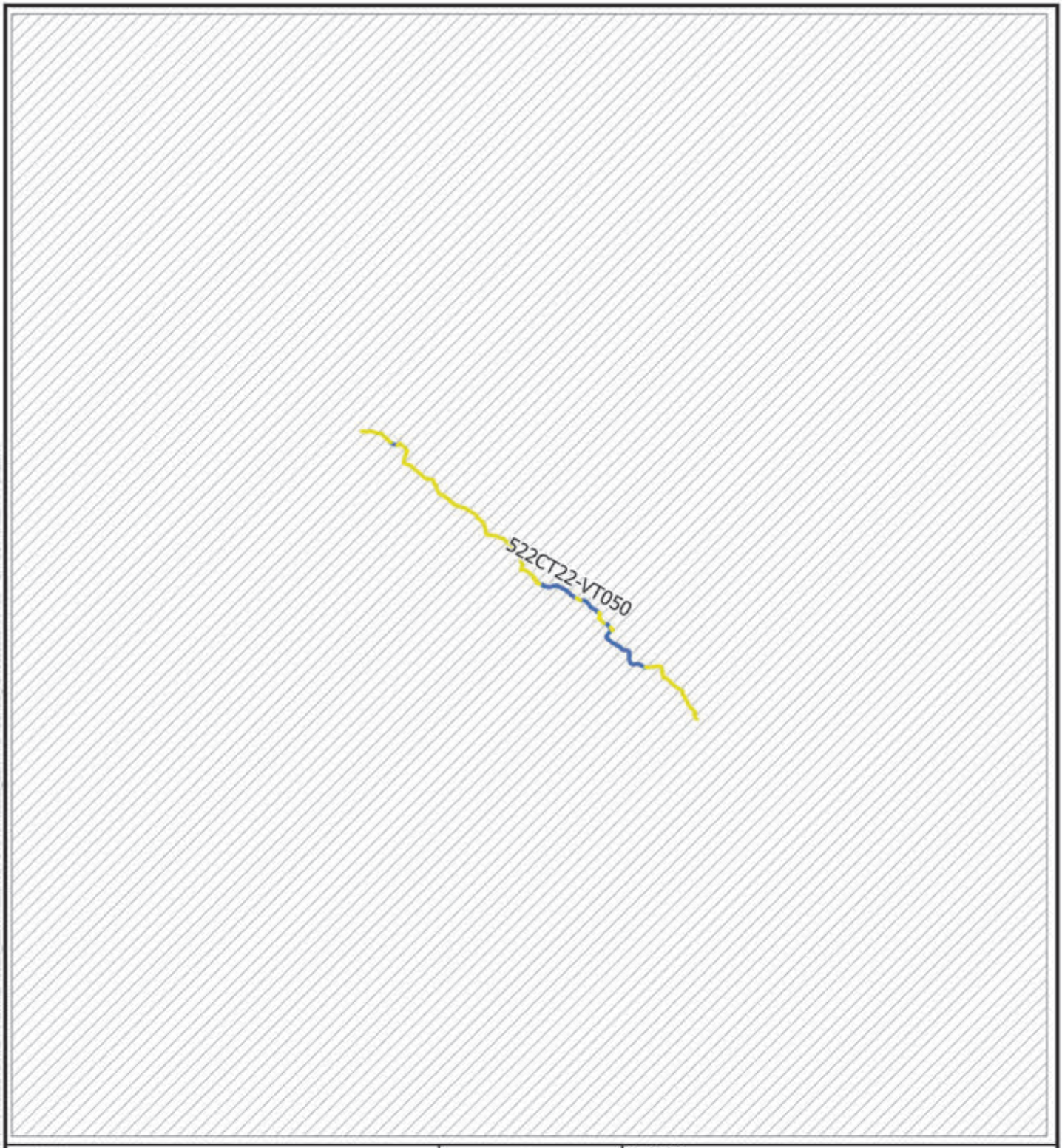
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT049

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECT\VINEYARD\MXD\483856_BENTHICSURVEYLAREACHANGE_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

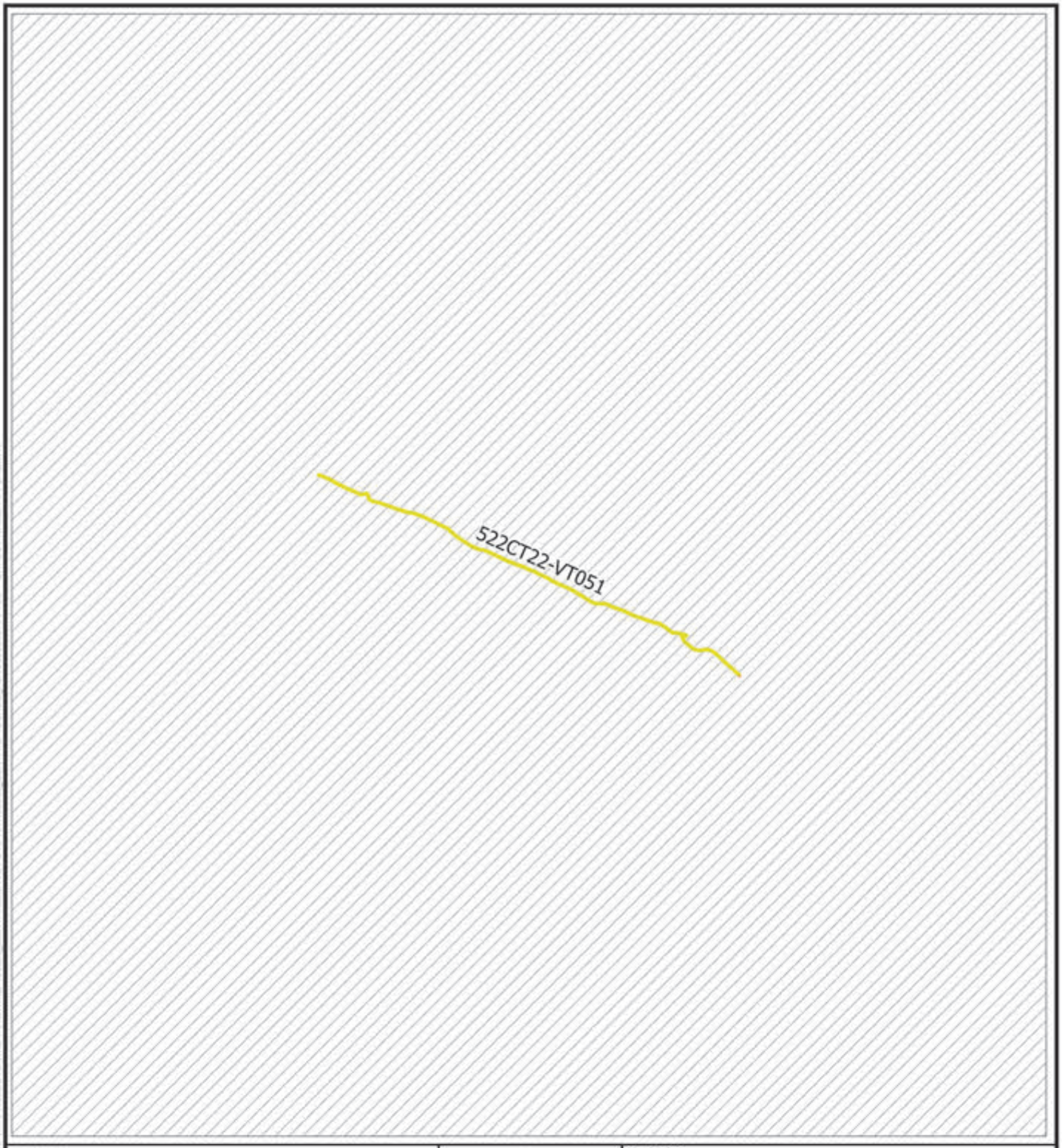
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT050

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

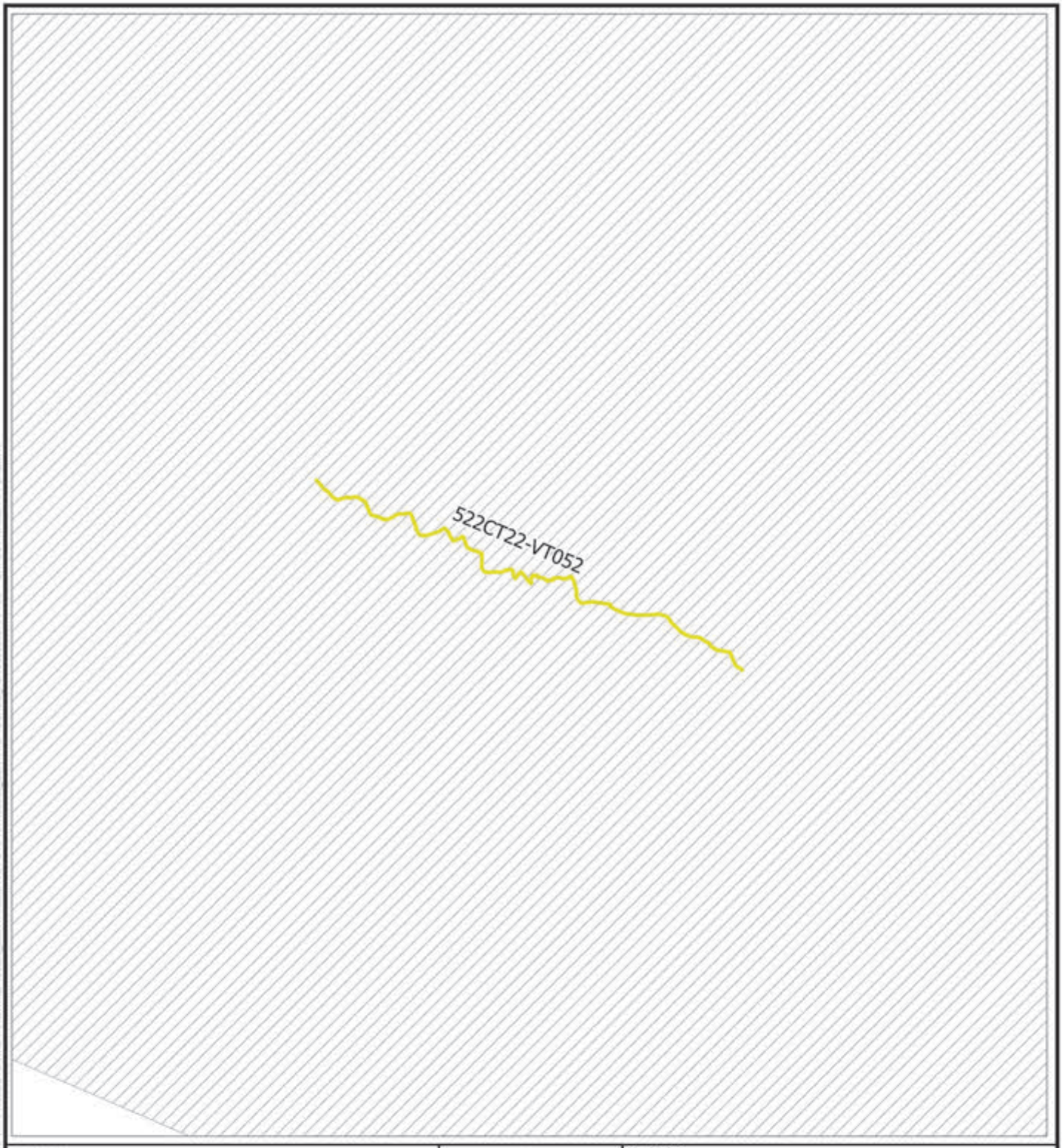
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT051

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

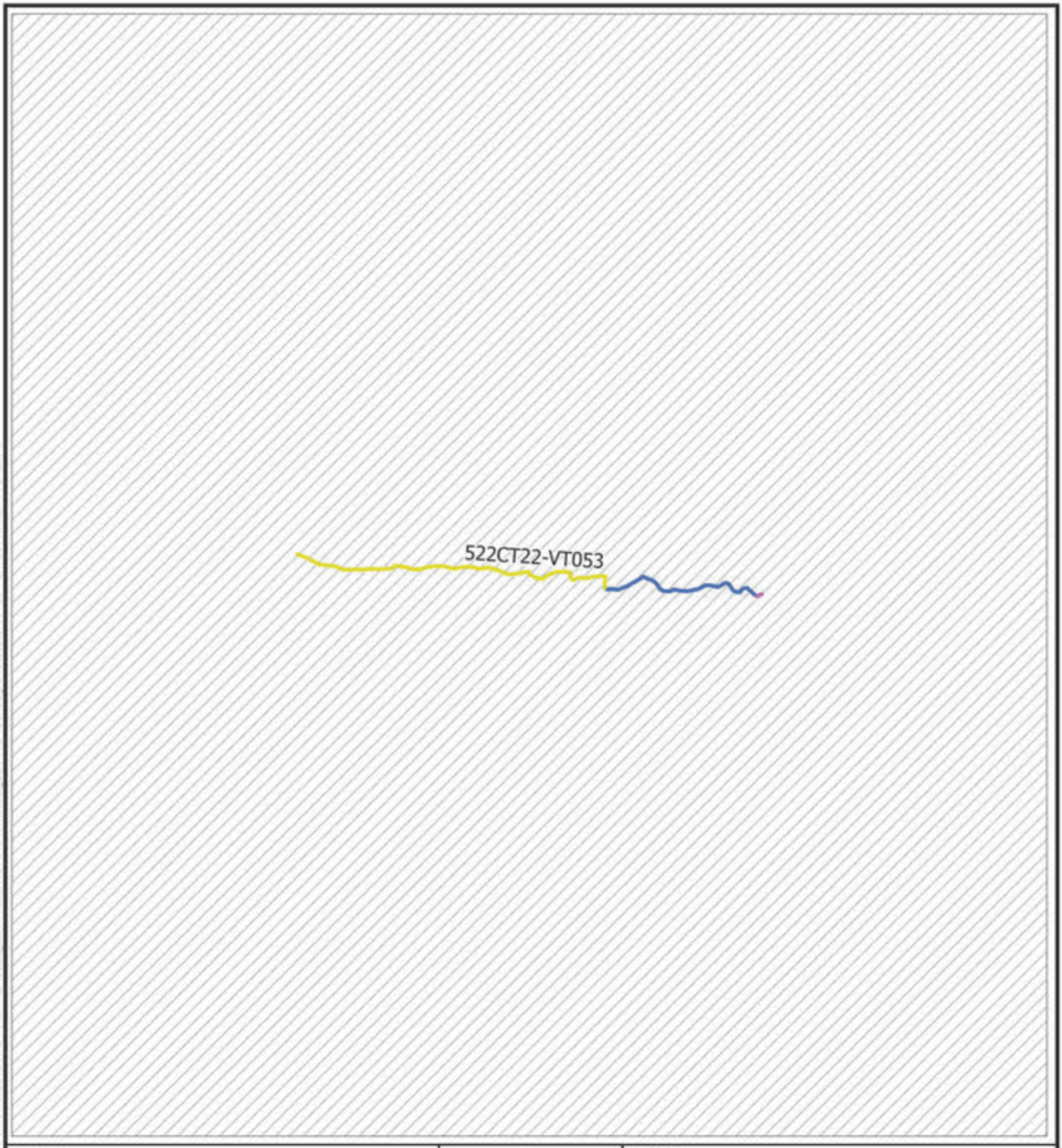
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT052

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

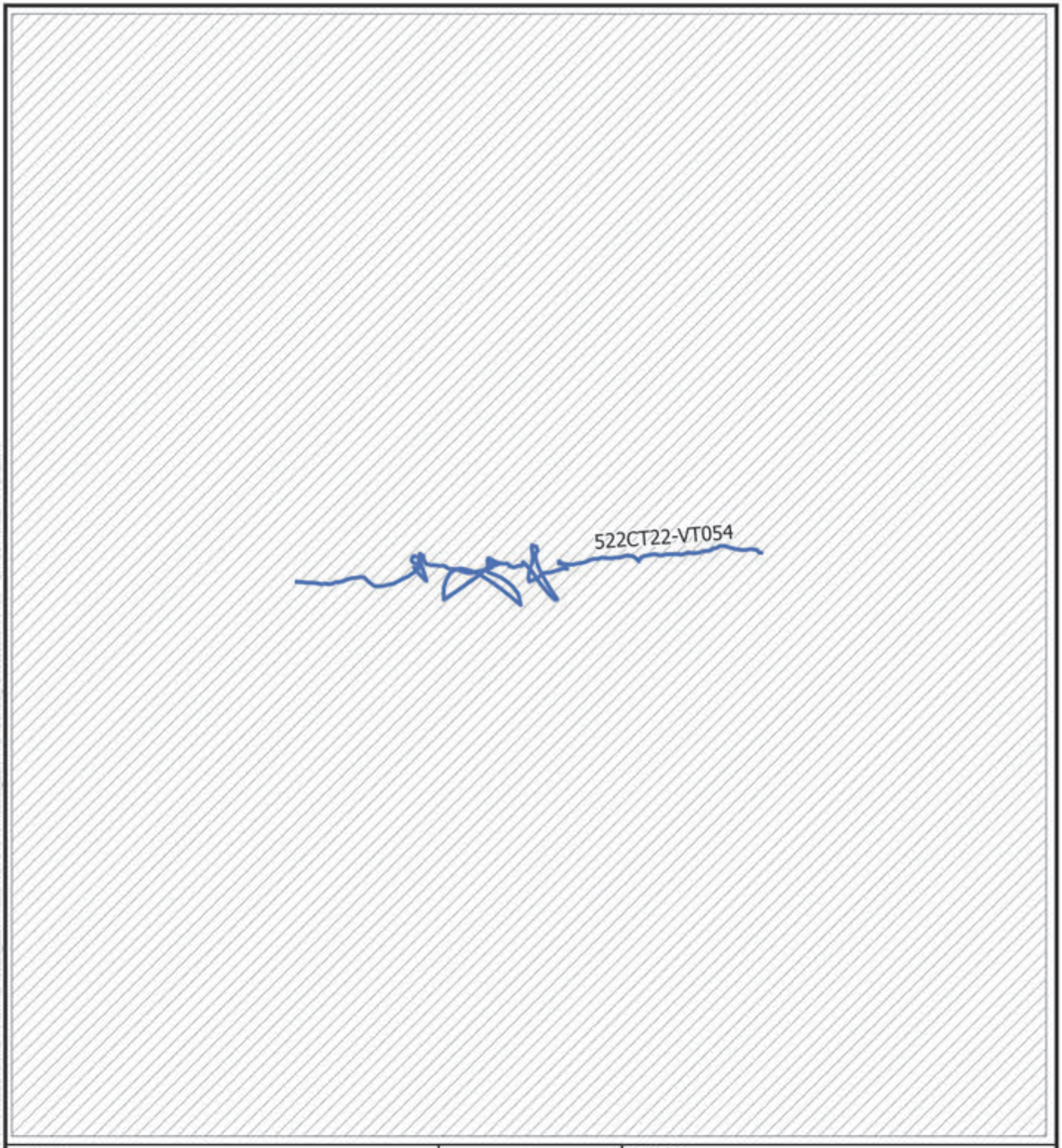
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT053

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Gravel

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

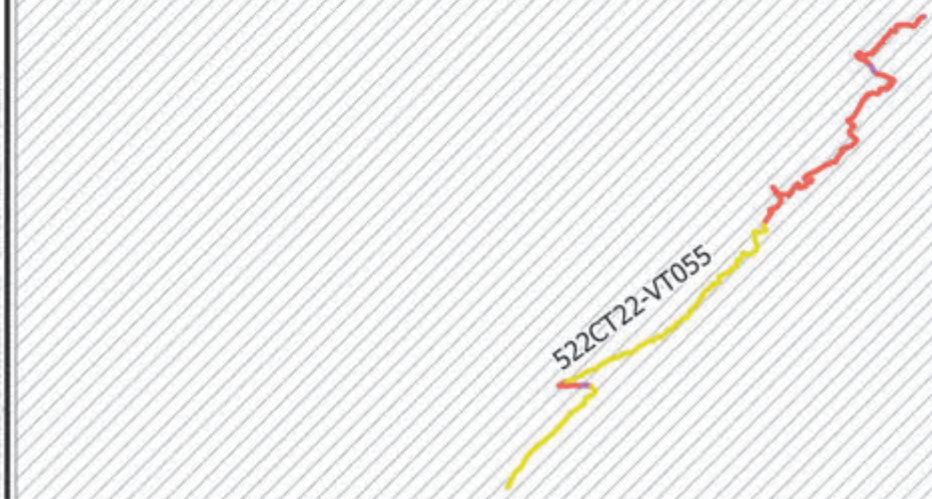
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT054

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

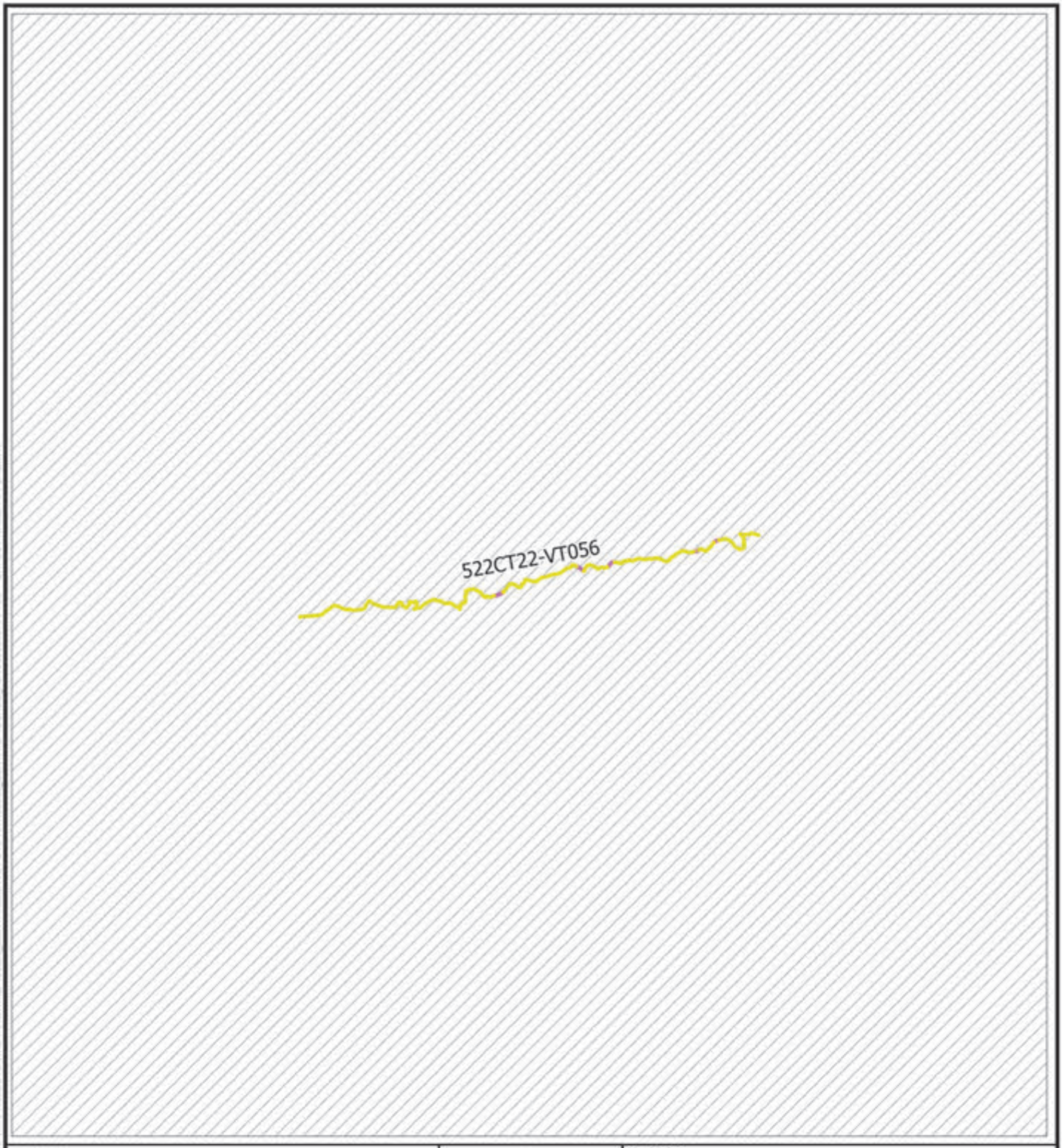
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT055

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

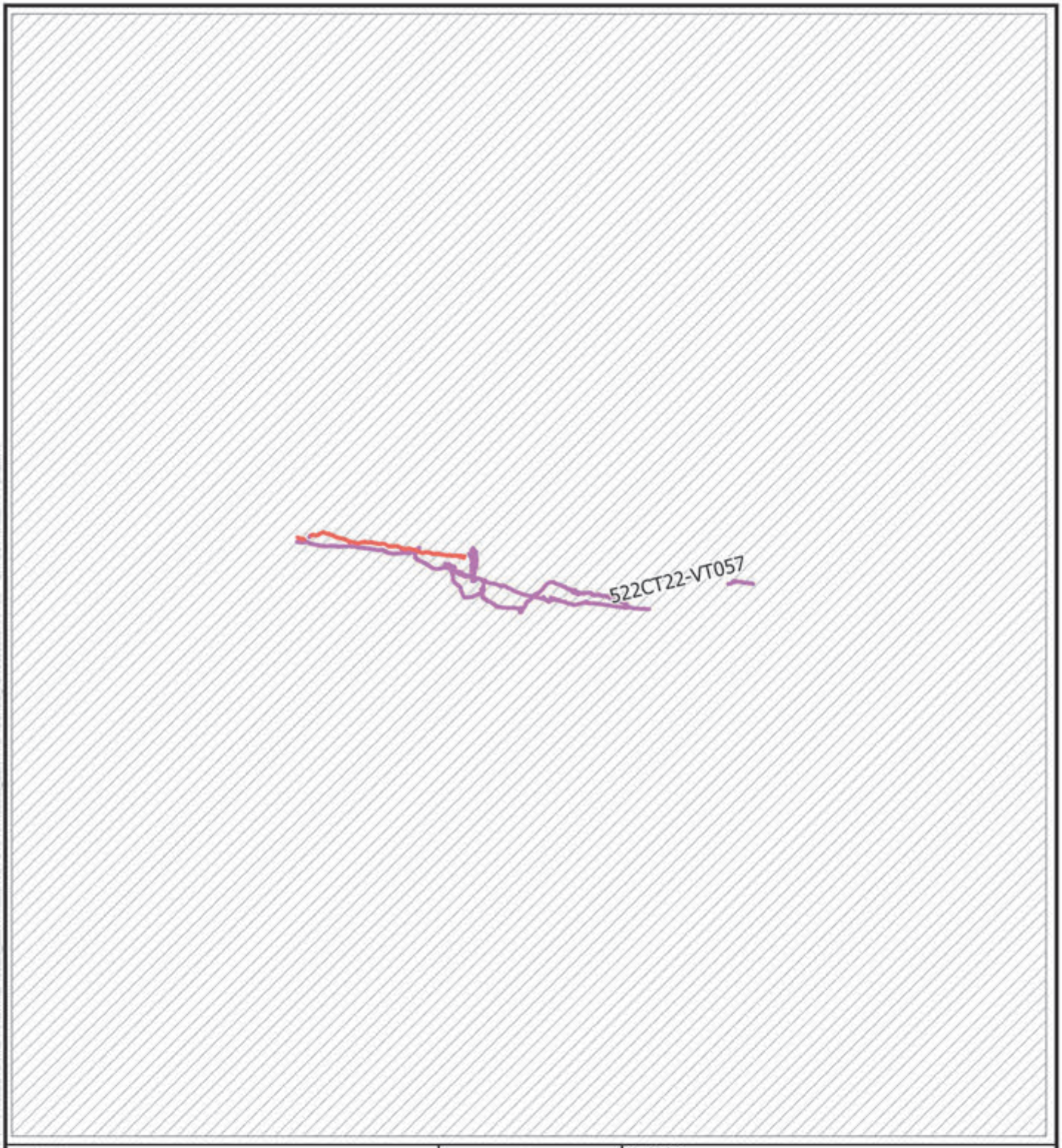
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT056	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

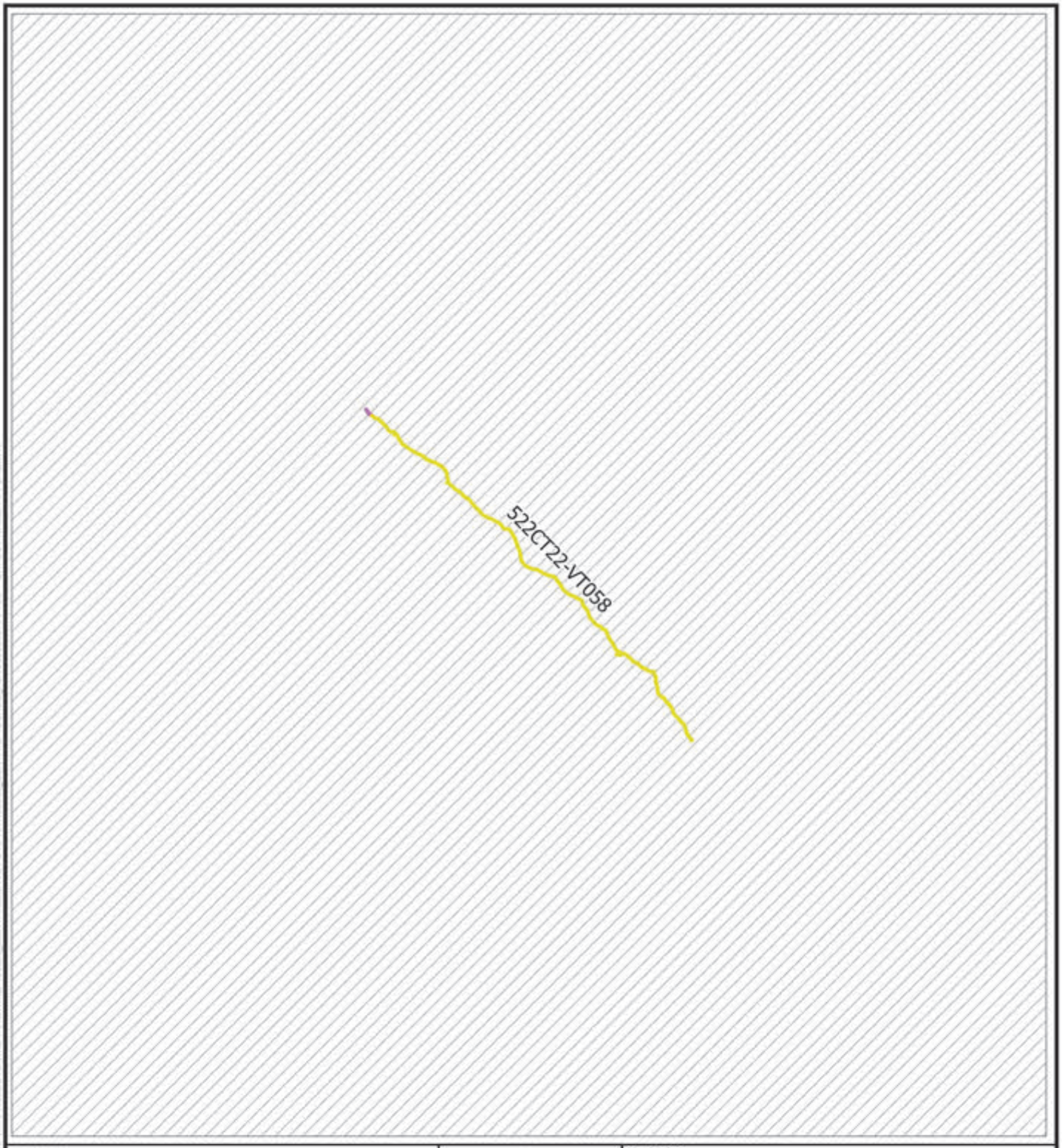
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT057

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

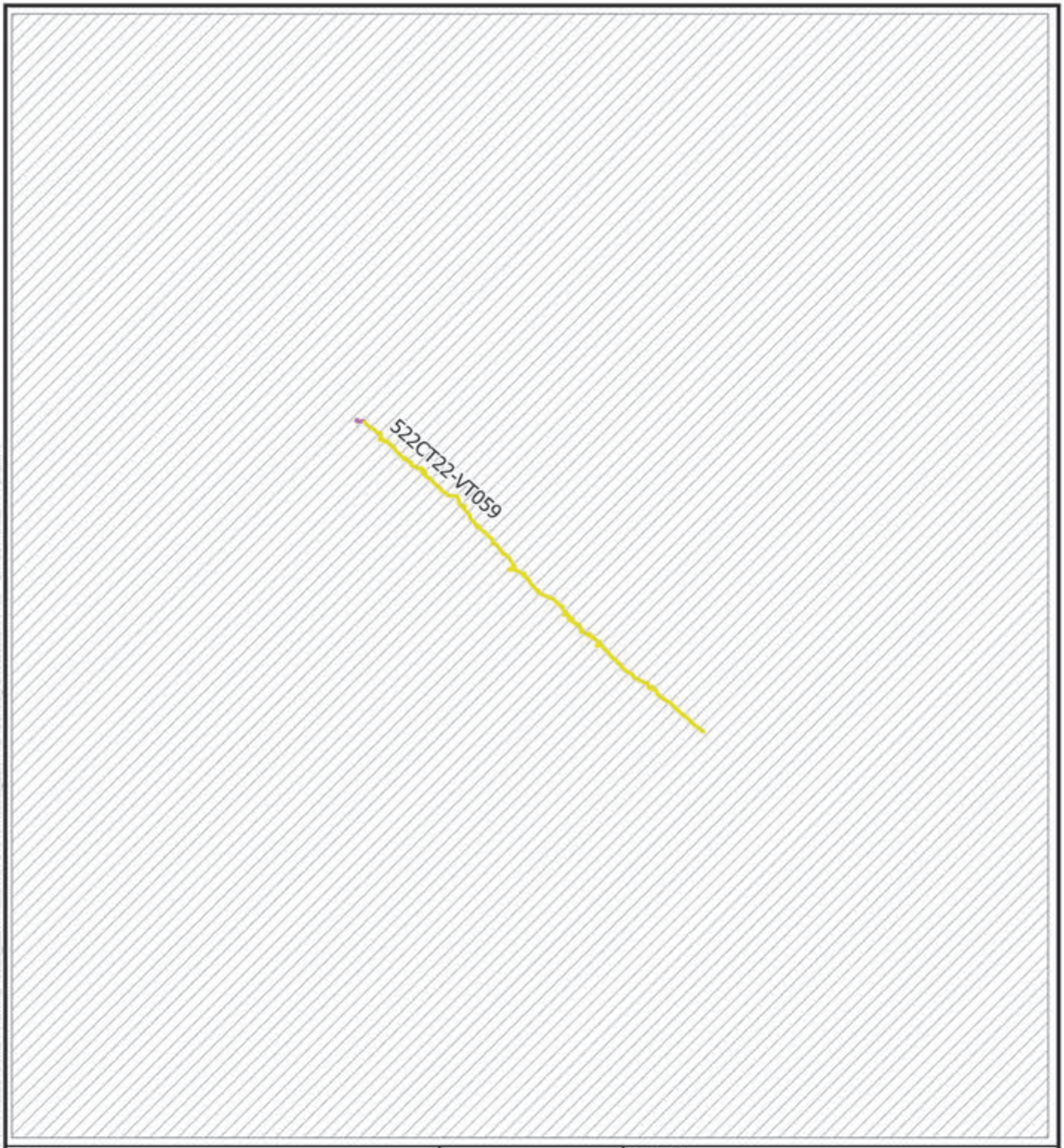
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT058	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

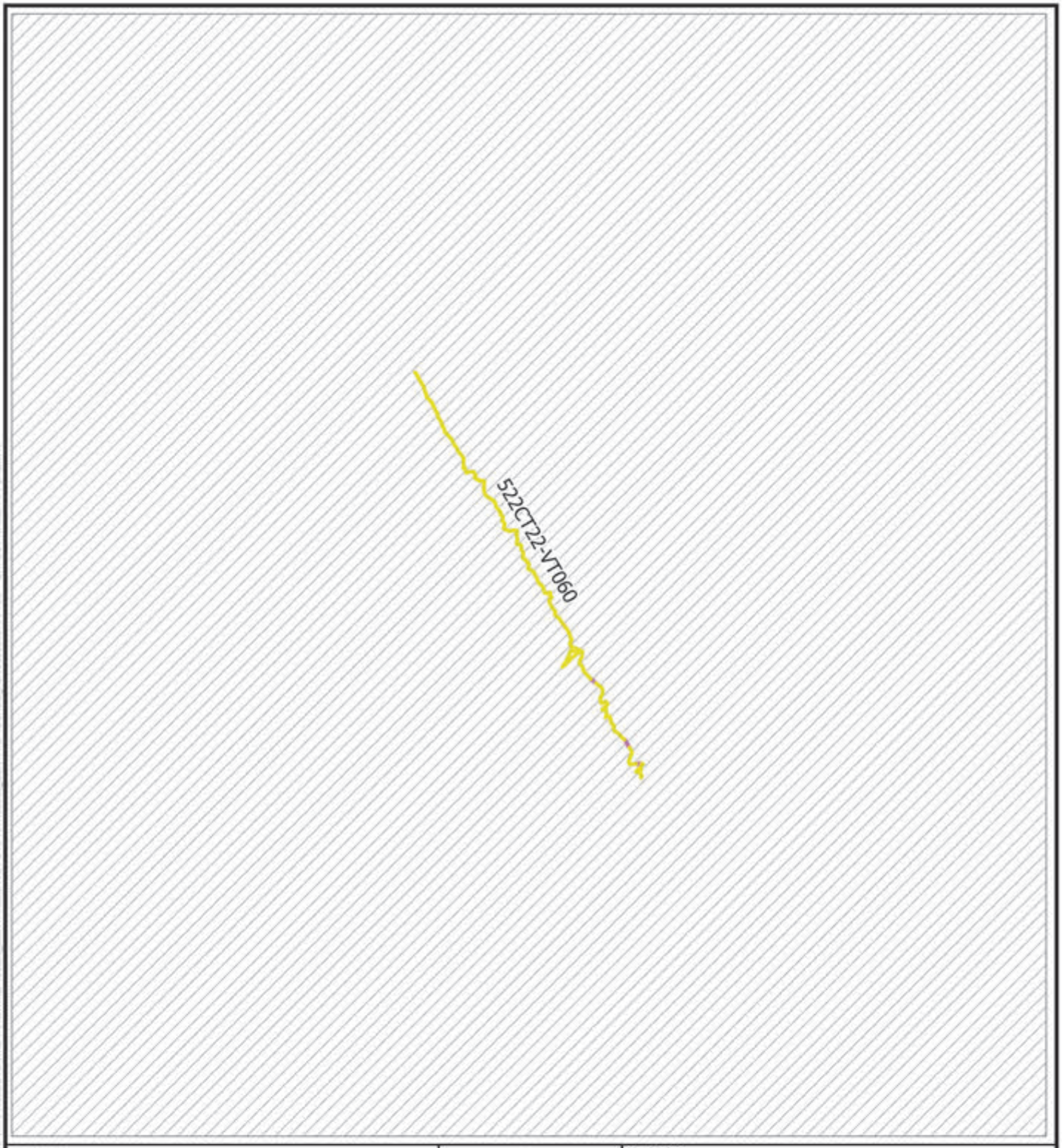
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT059

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: JDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

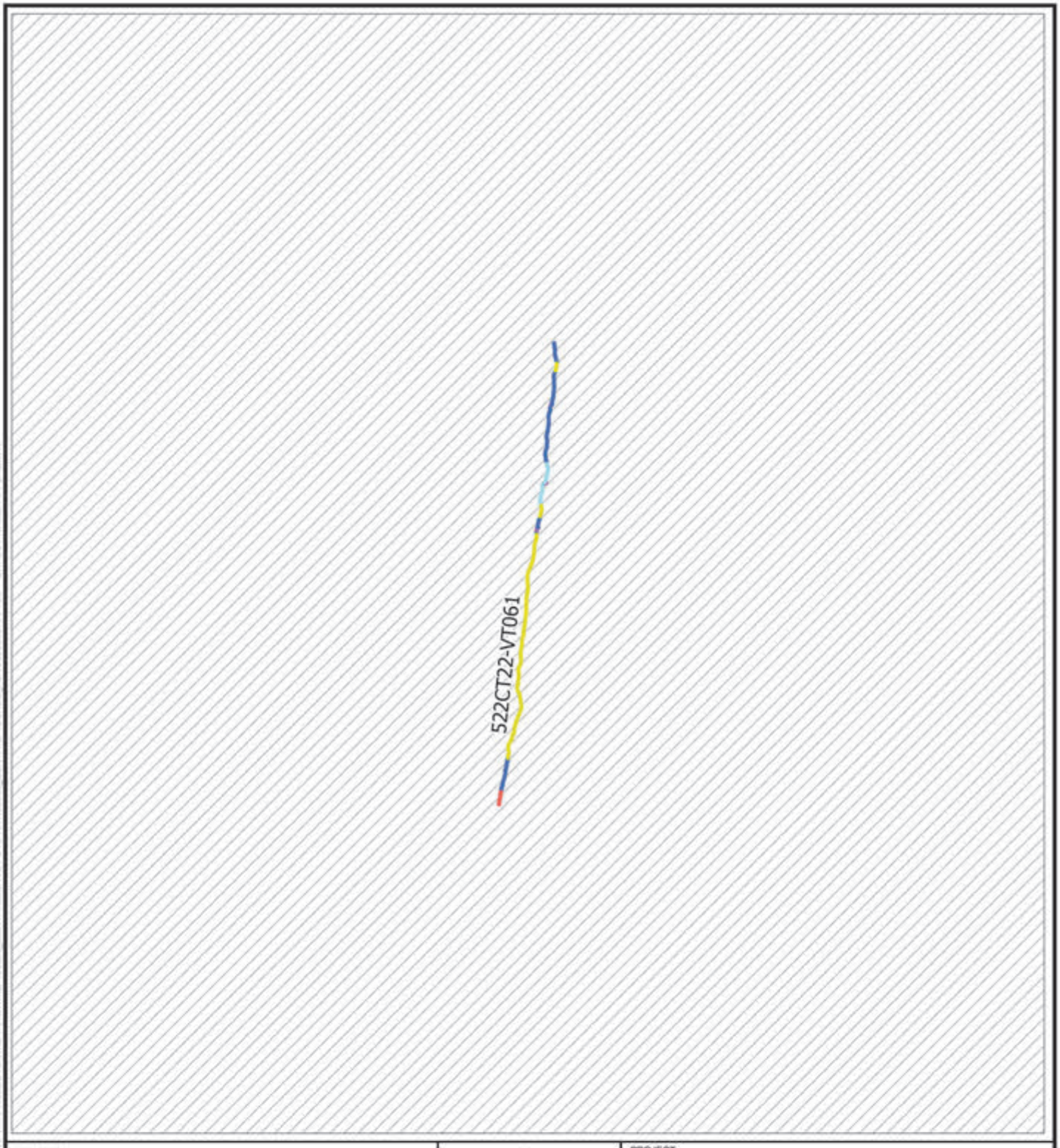
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT060	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

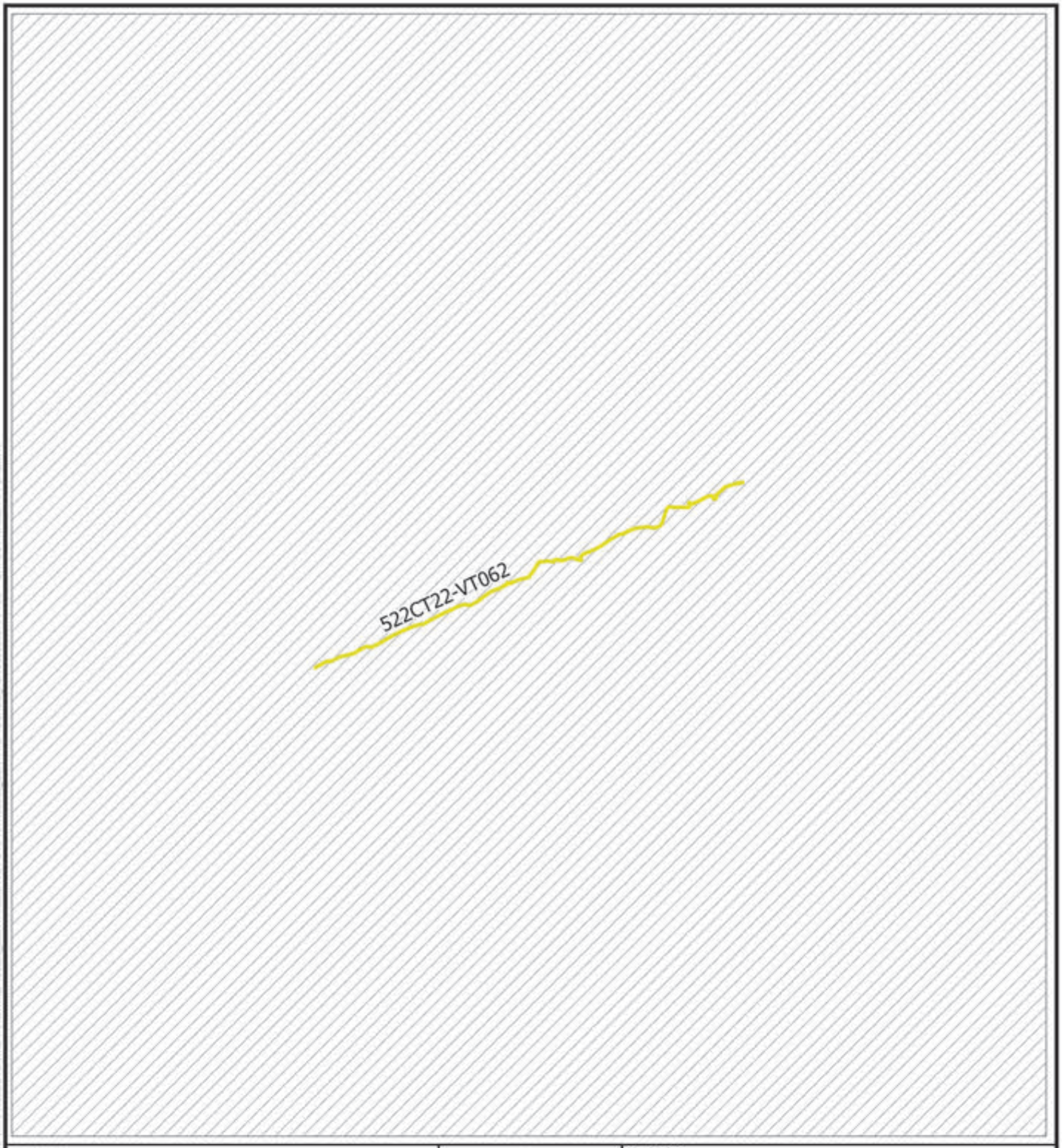
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT061

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

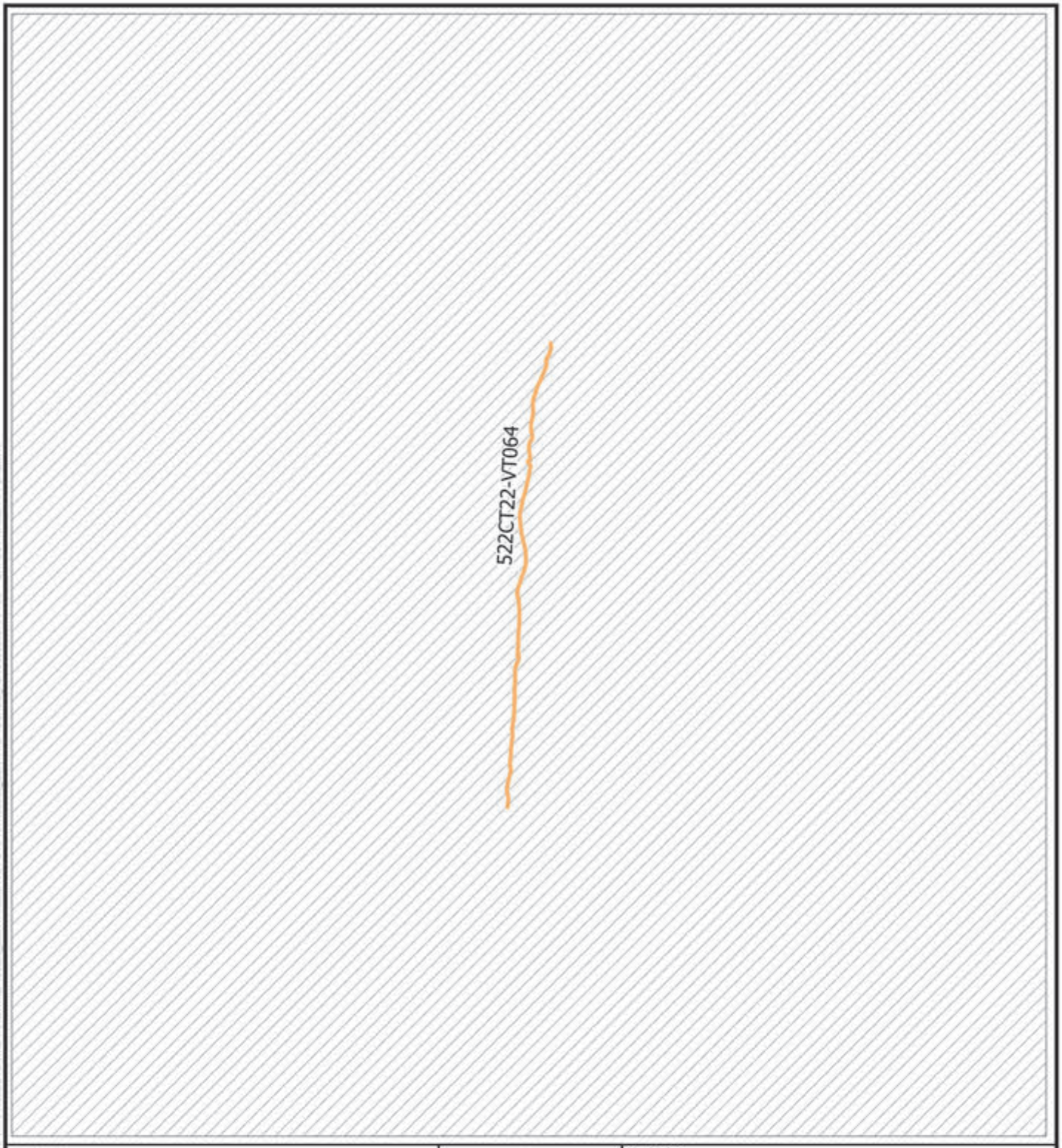
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT062	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT064

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

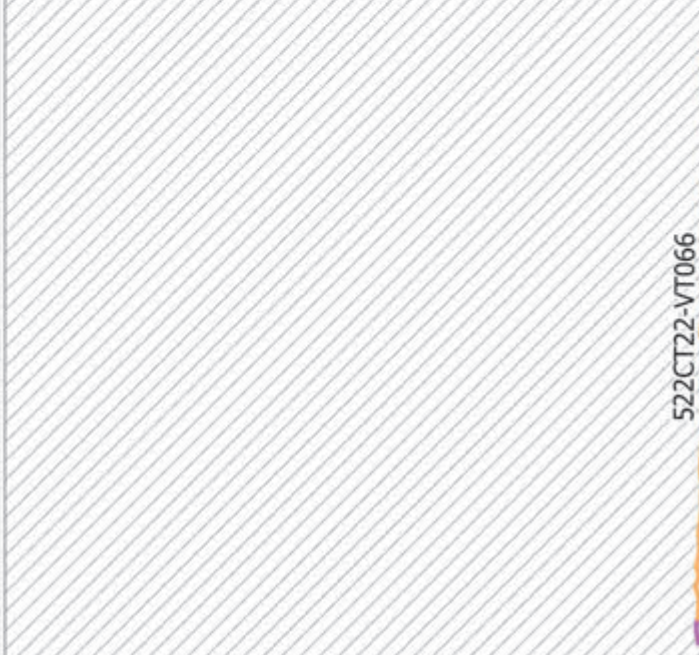
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT065	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

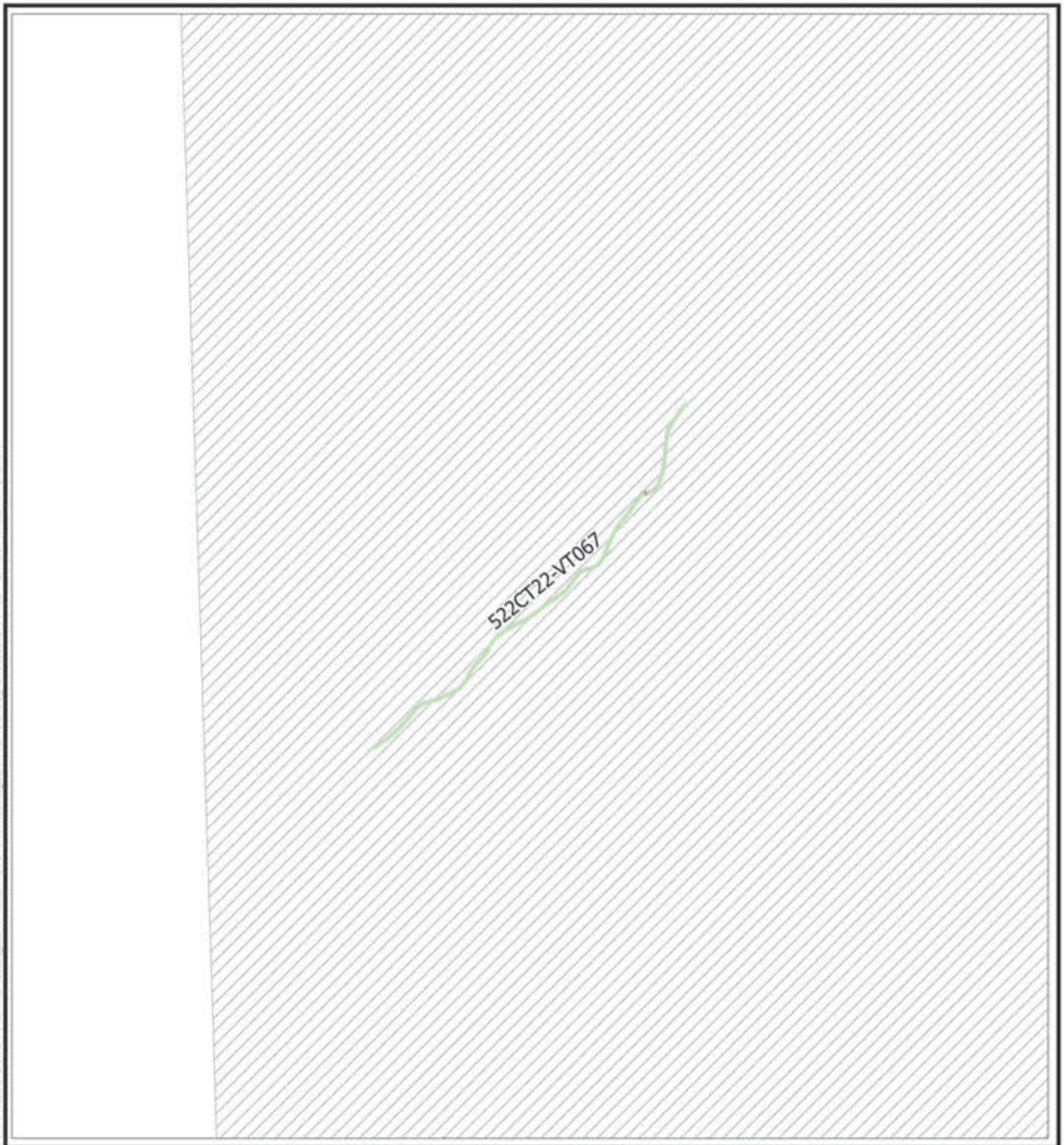
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT066

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\REVIEW\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

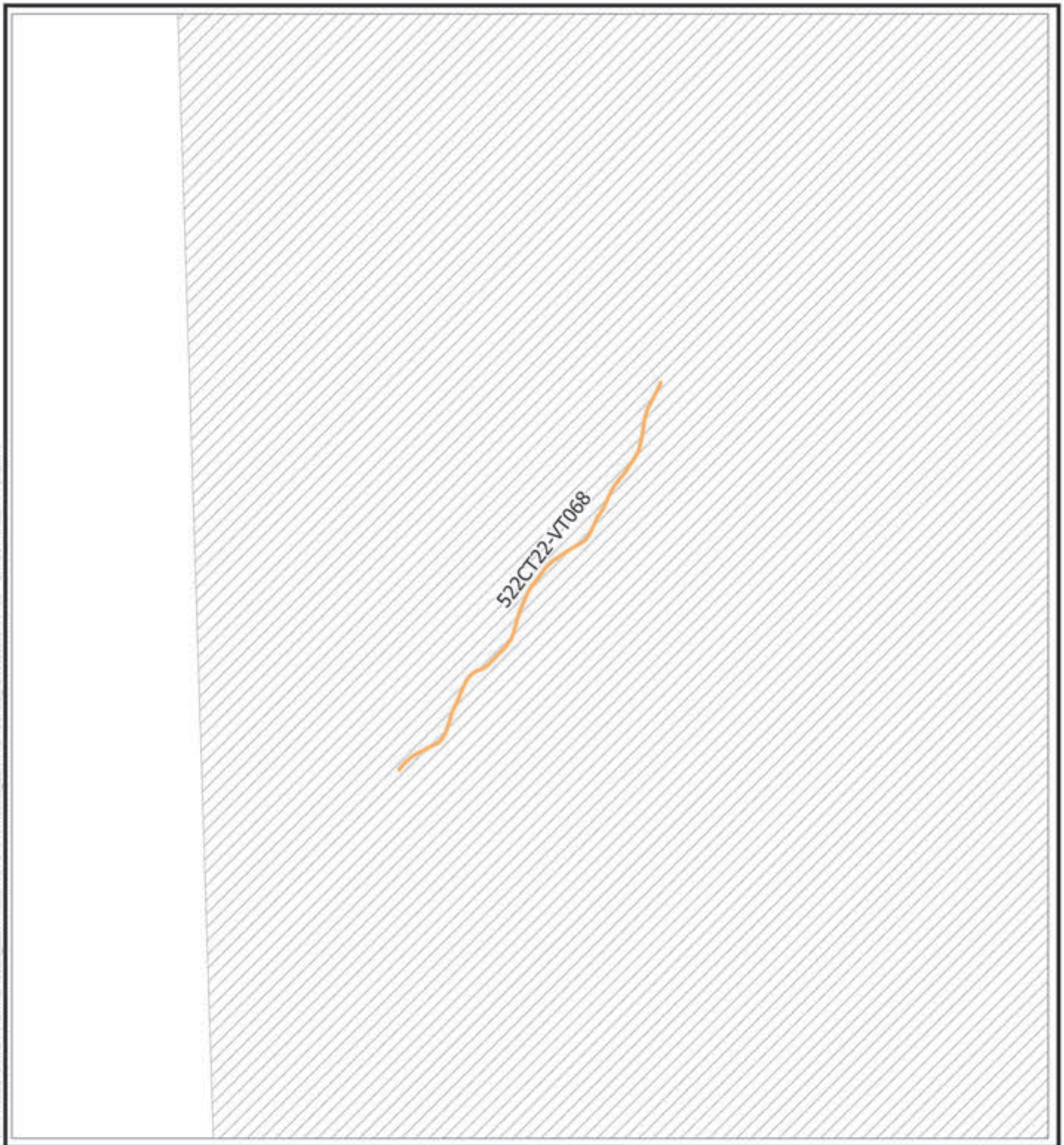
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT067	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

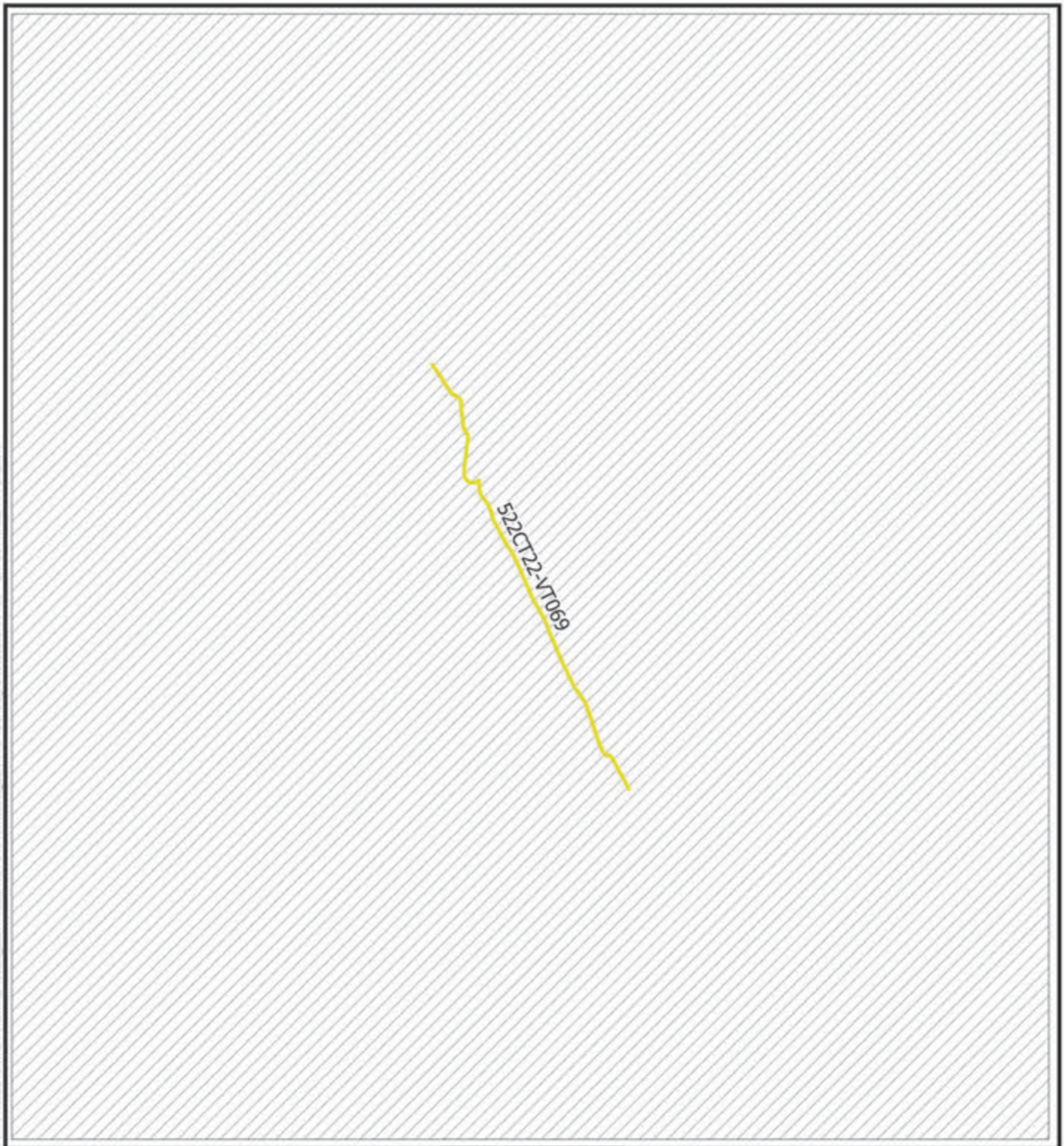
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT068

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

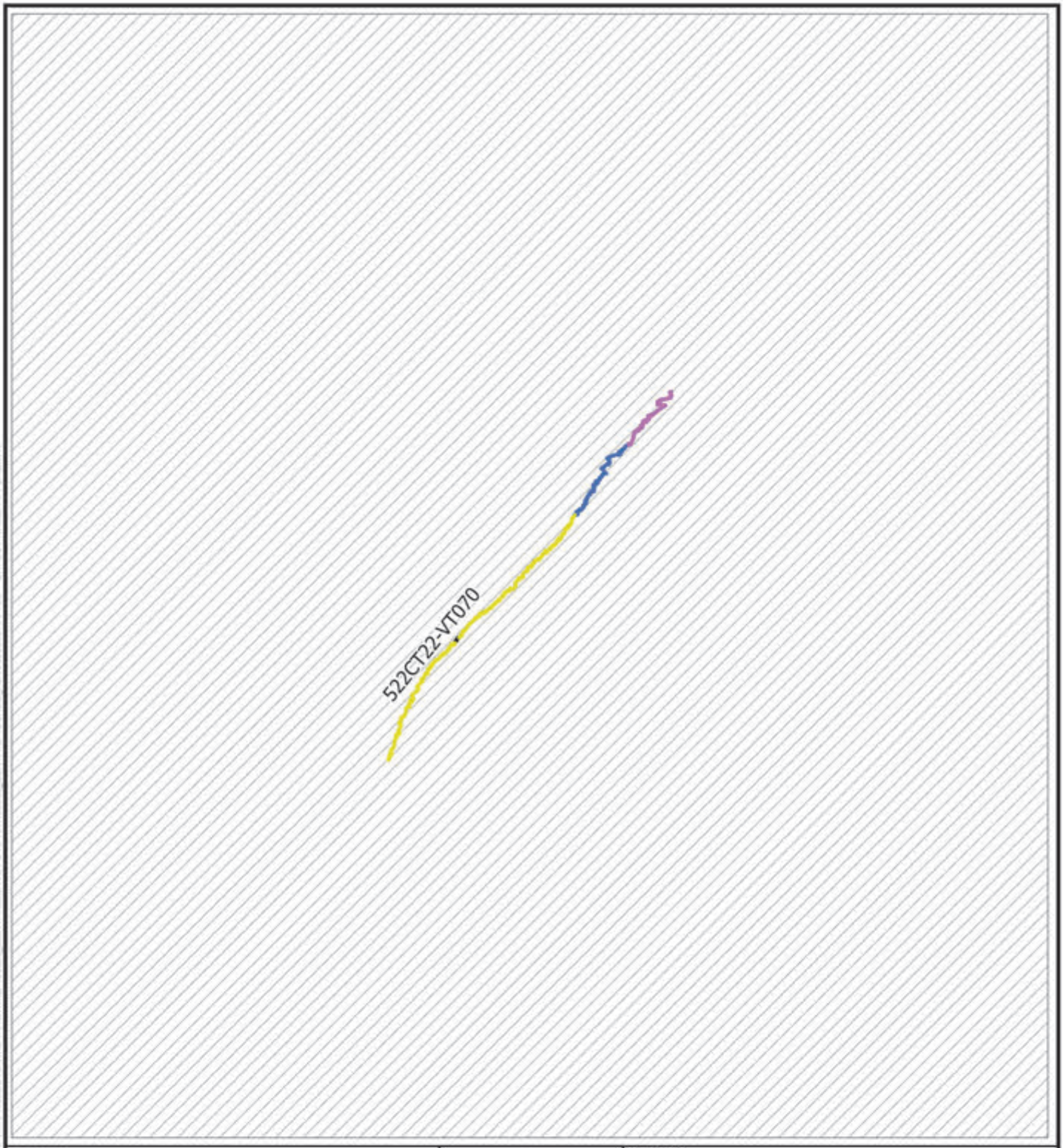
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT069

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 11:37:31 AM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Bedrock
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

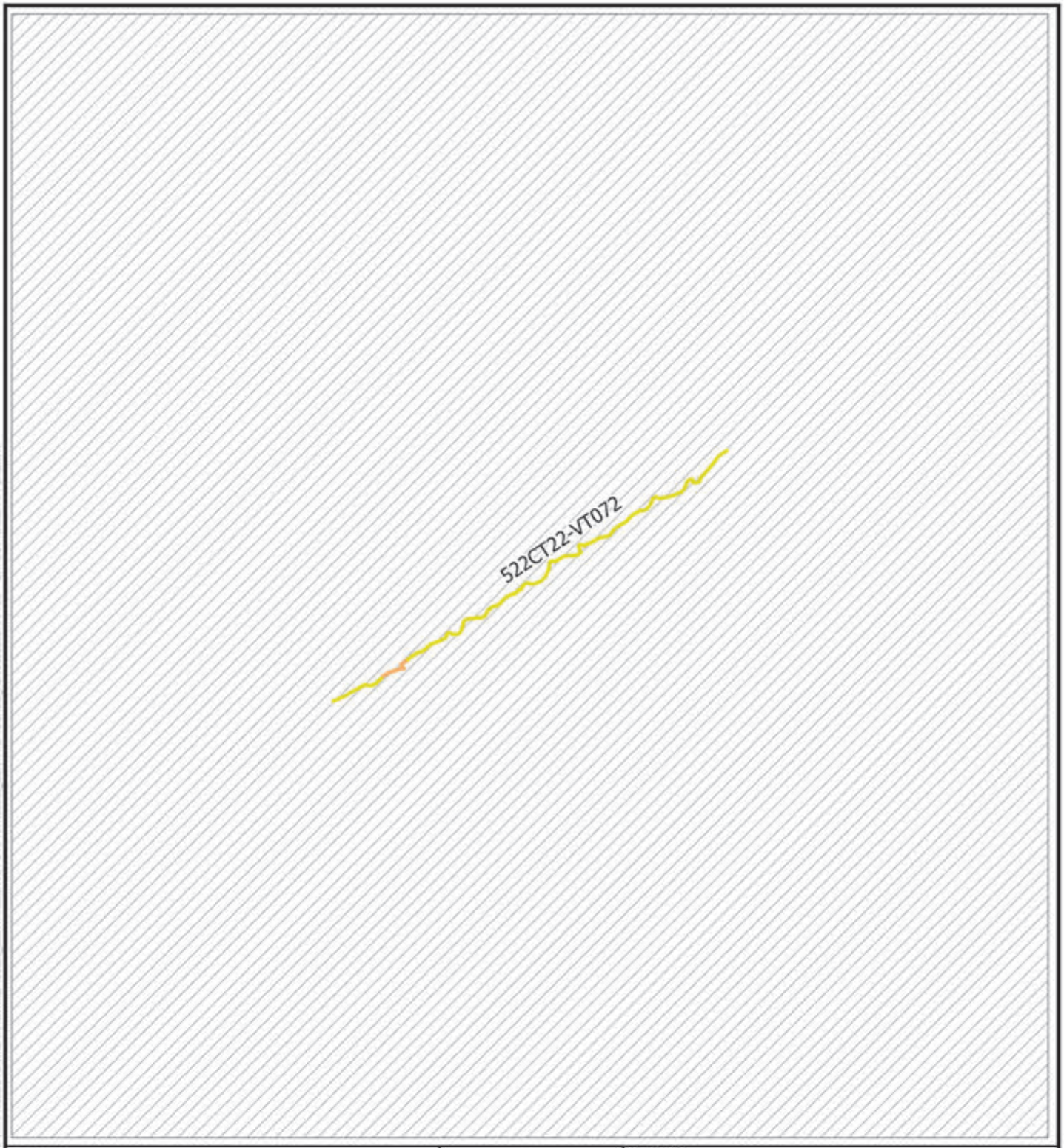
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT070

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

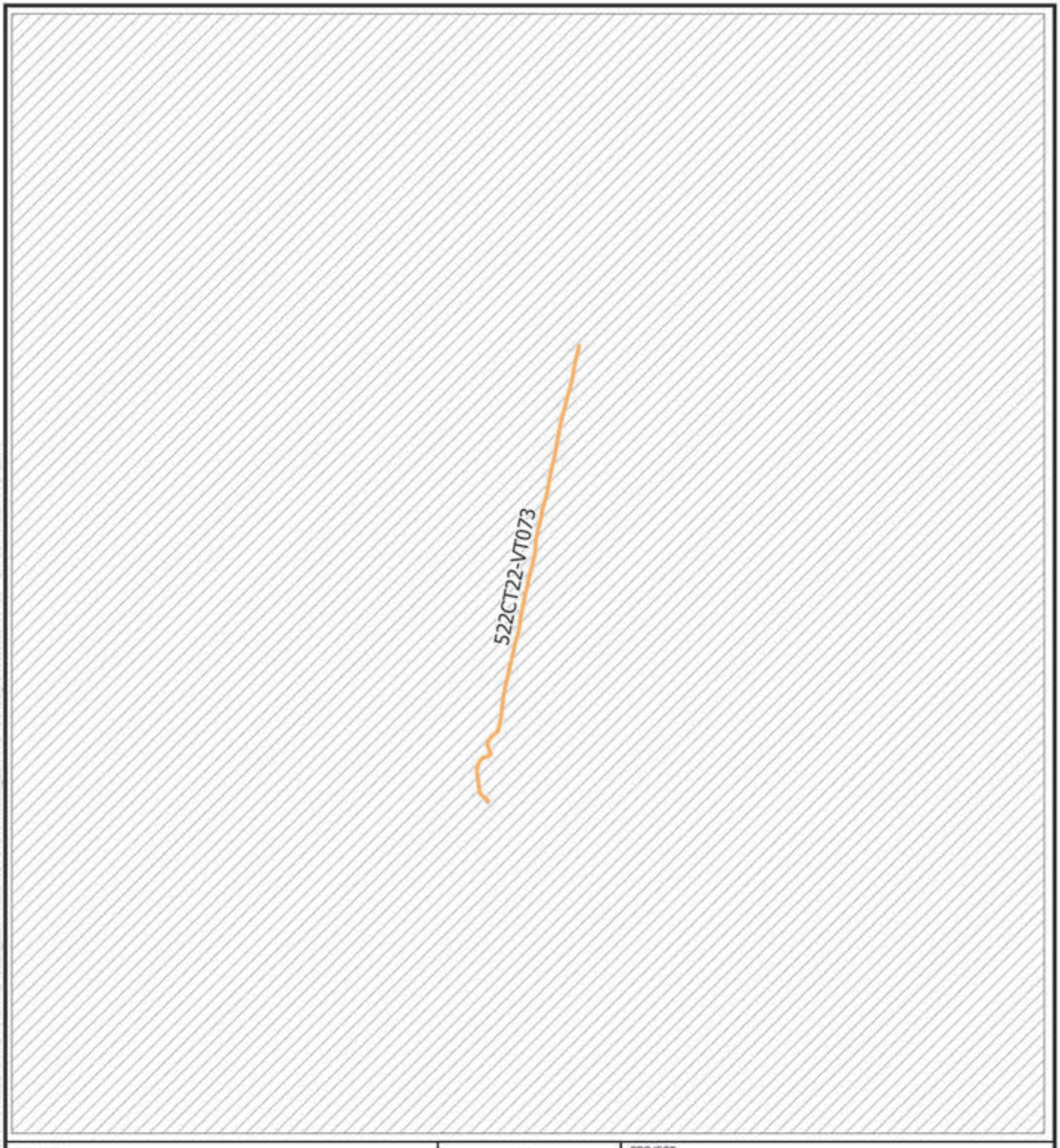
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT072

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT073	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor

Sand

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

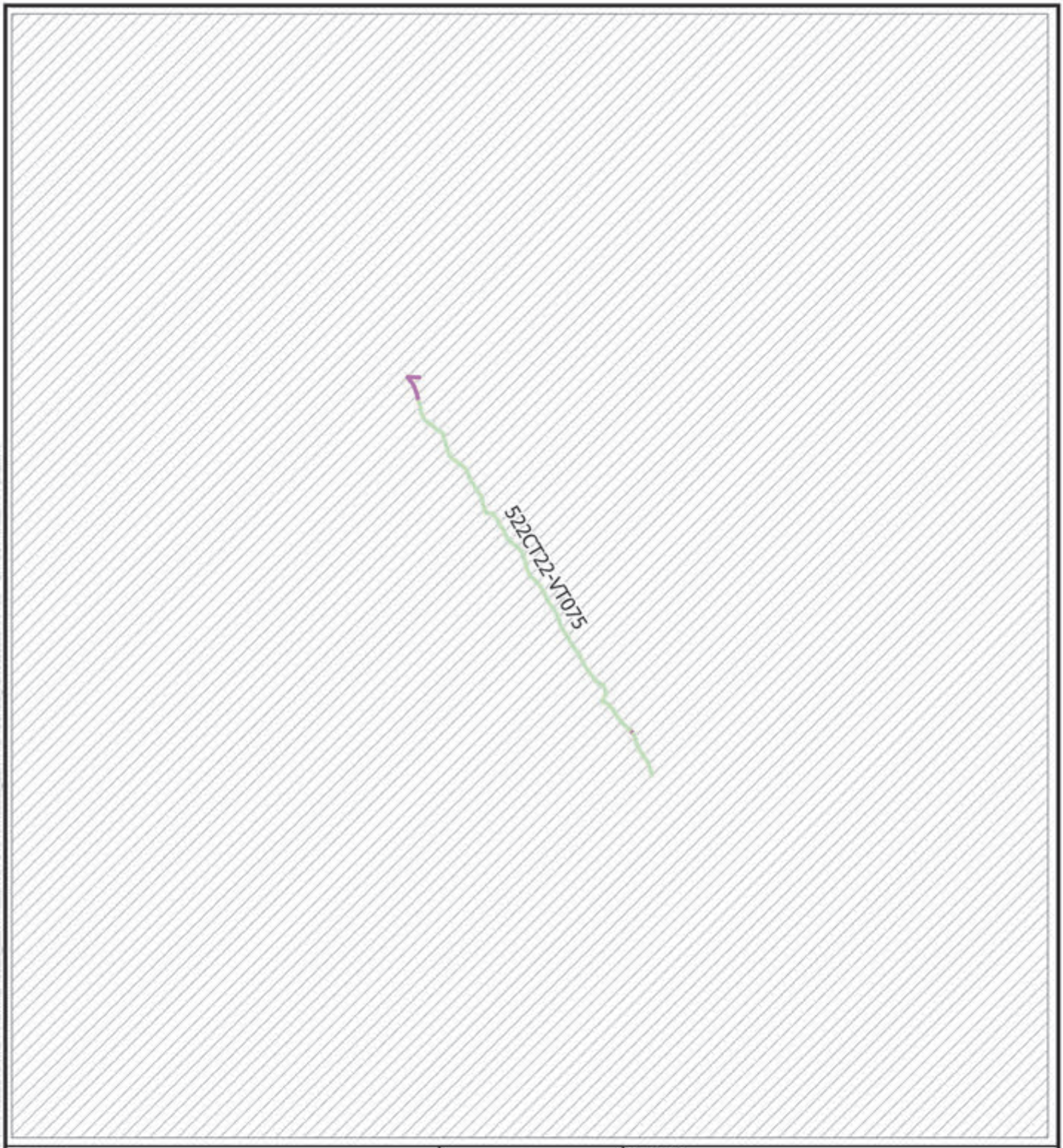
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT074

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

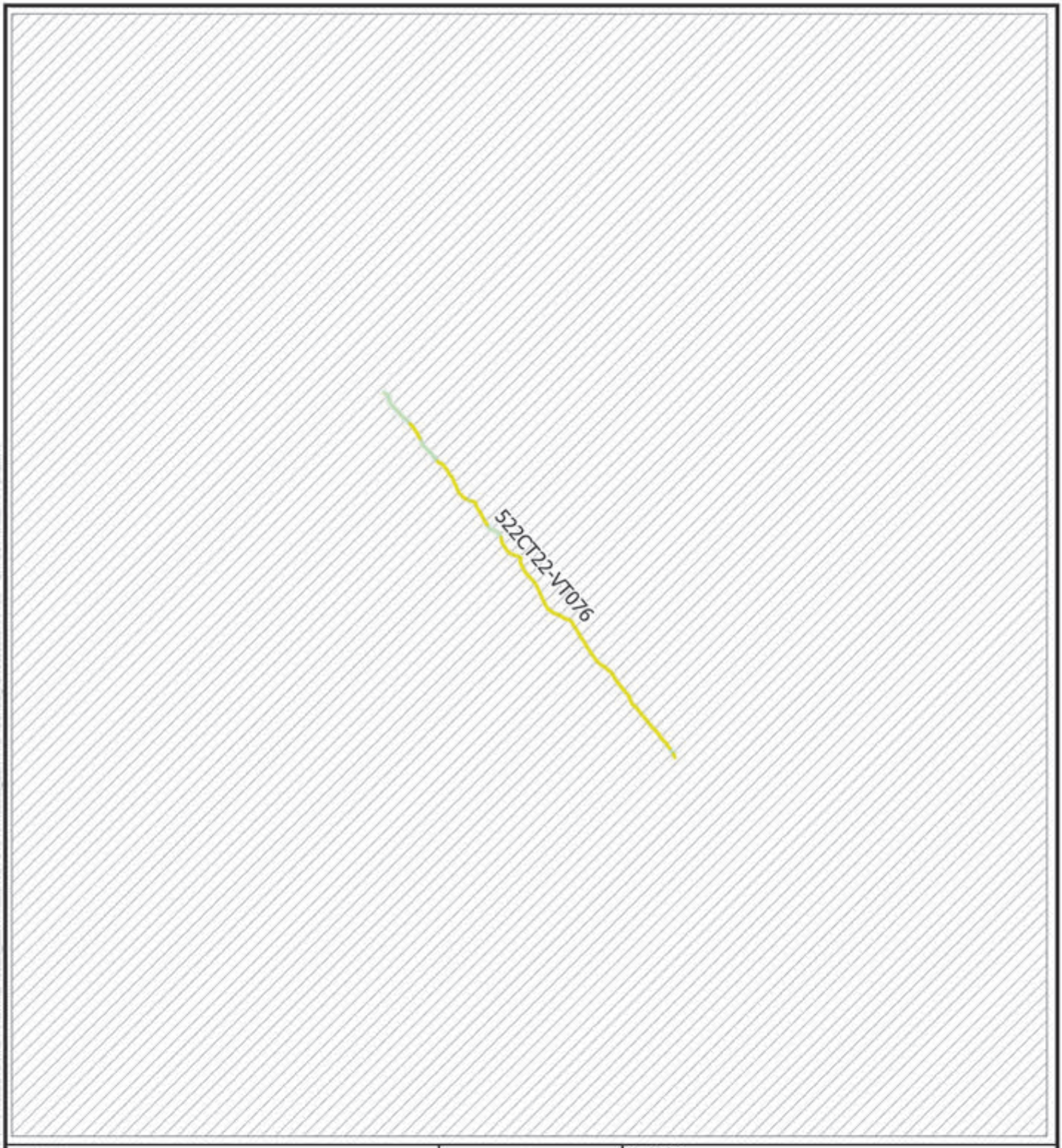
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT075

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Shell

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

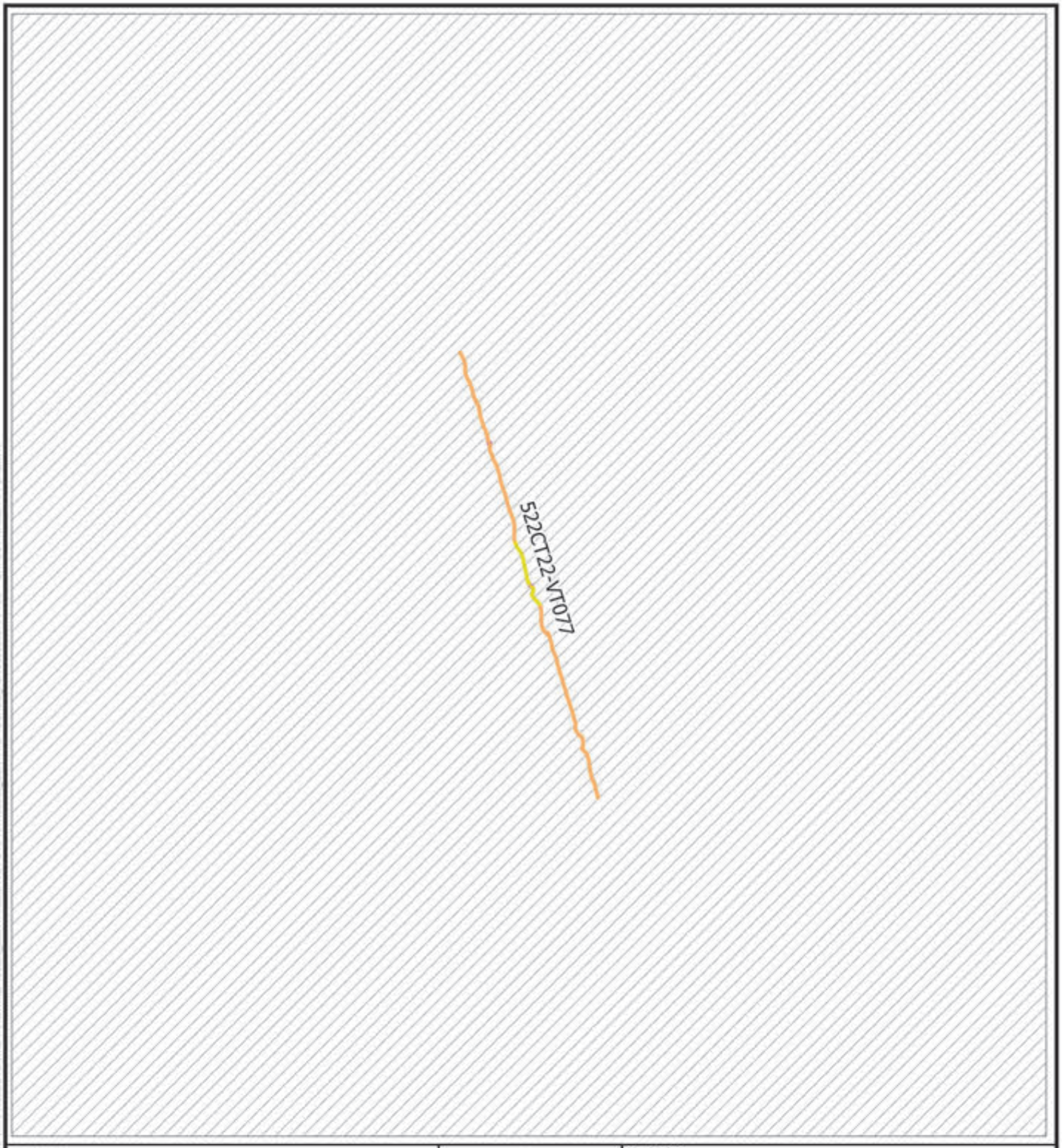
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT076

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT077

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

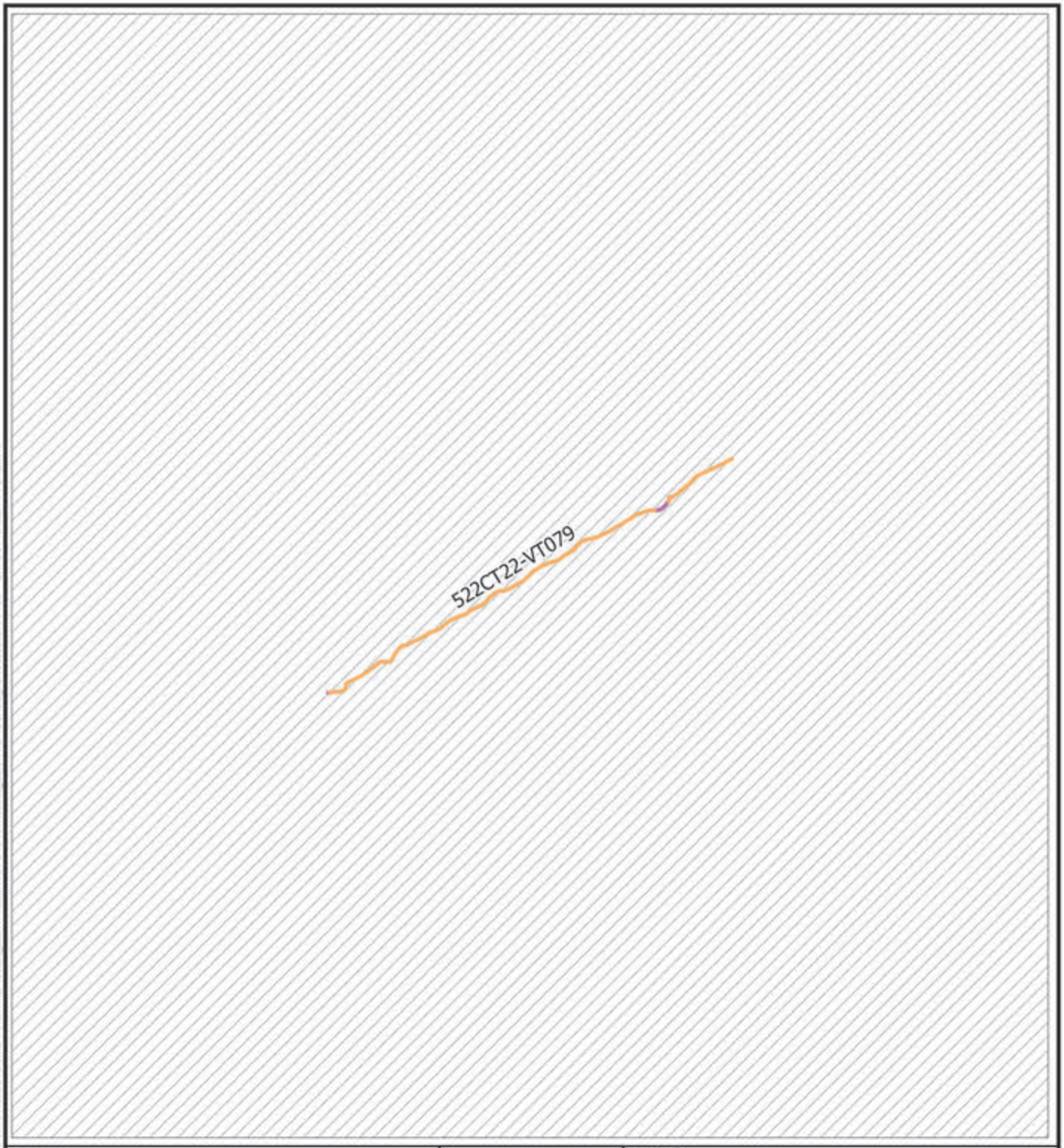
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT078

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\RIVES\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

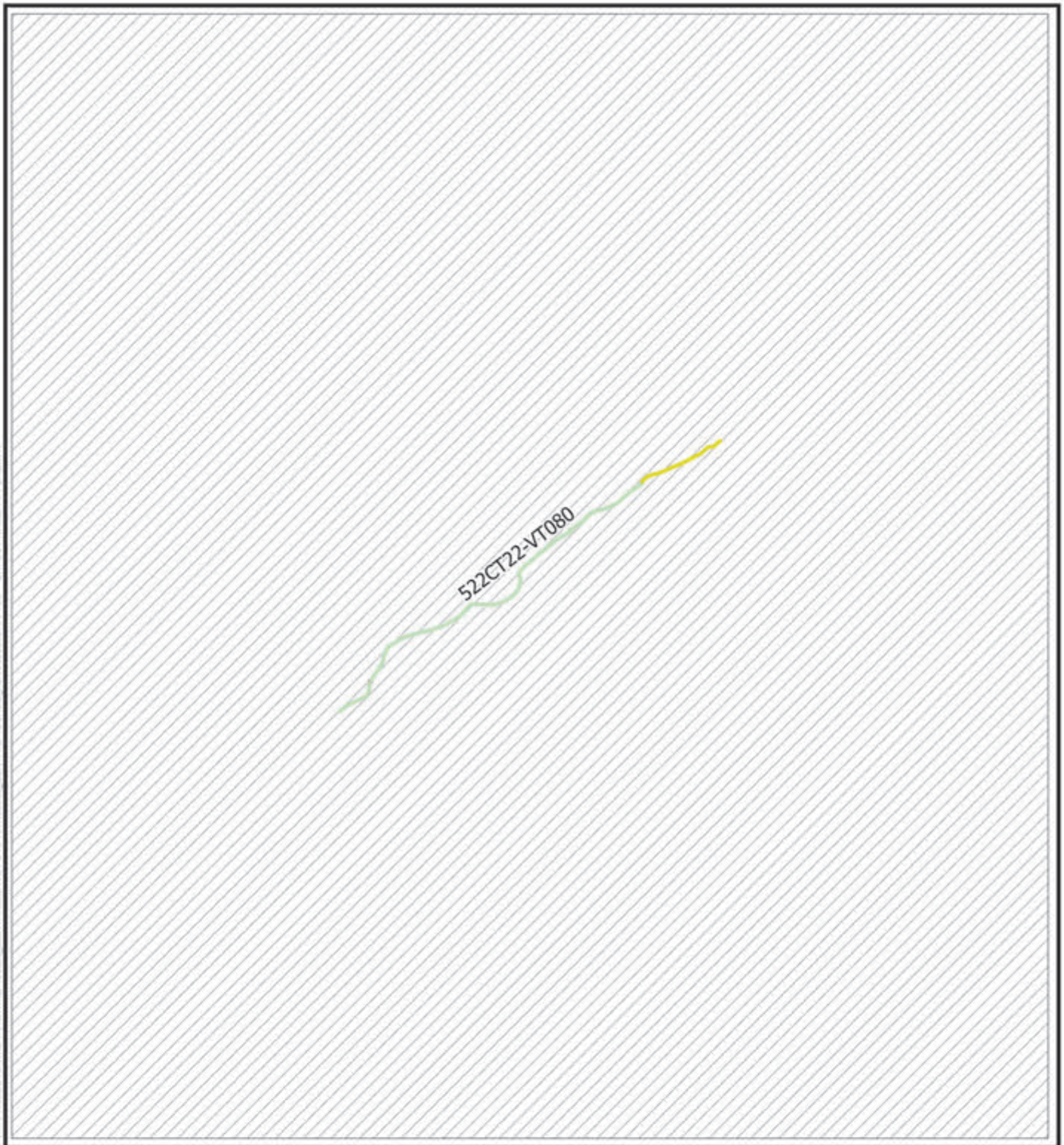
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT079

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

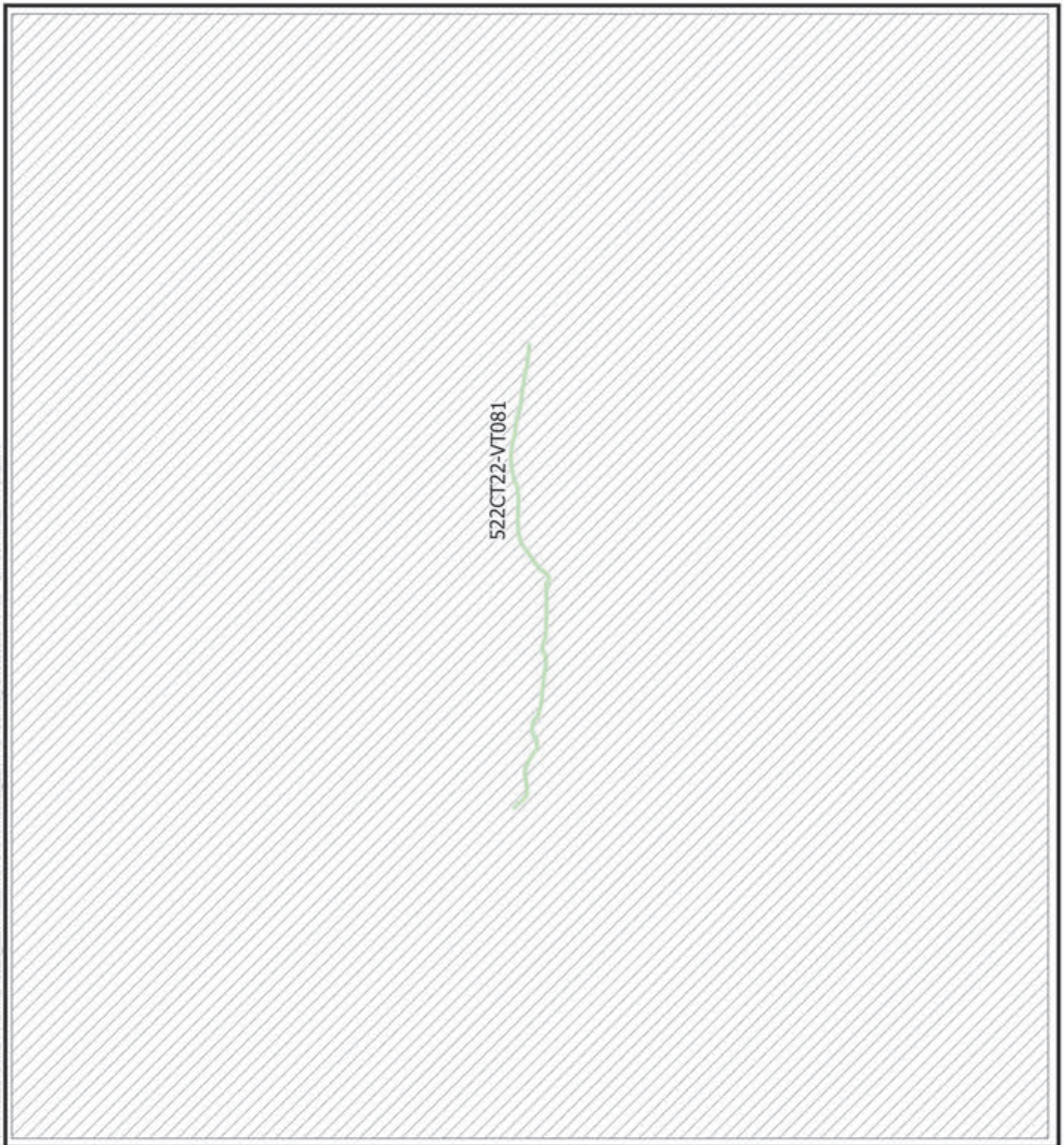
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT080

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Muddy Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50

METERS

PROJECT:

VINEYARD NORTHEAST

TITLE:

CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT081

TRC

10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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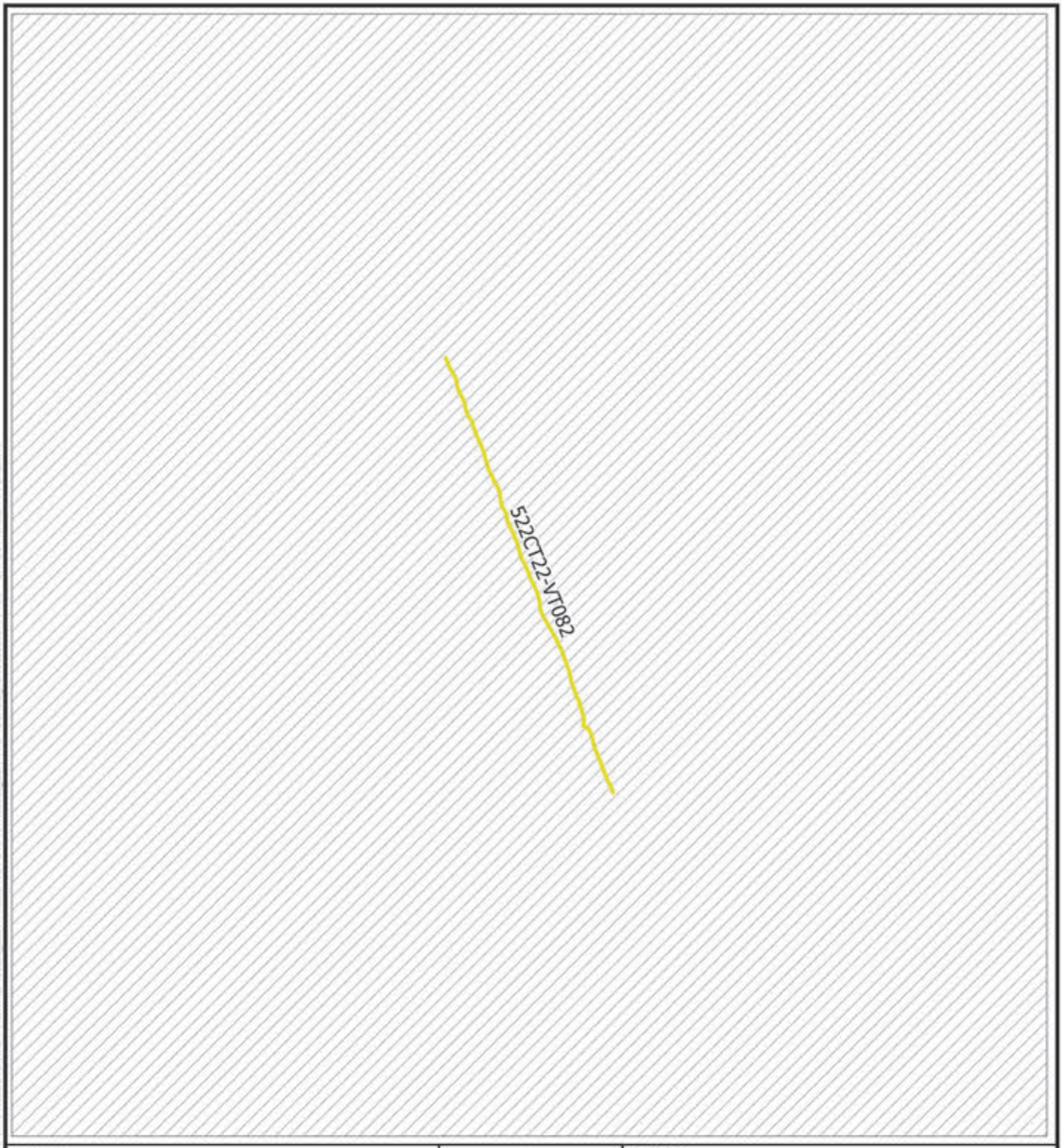

CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT082

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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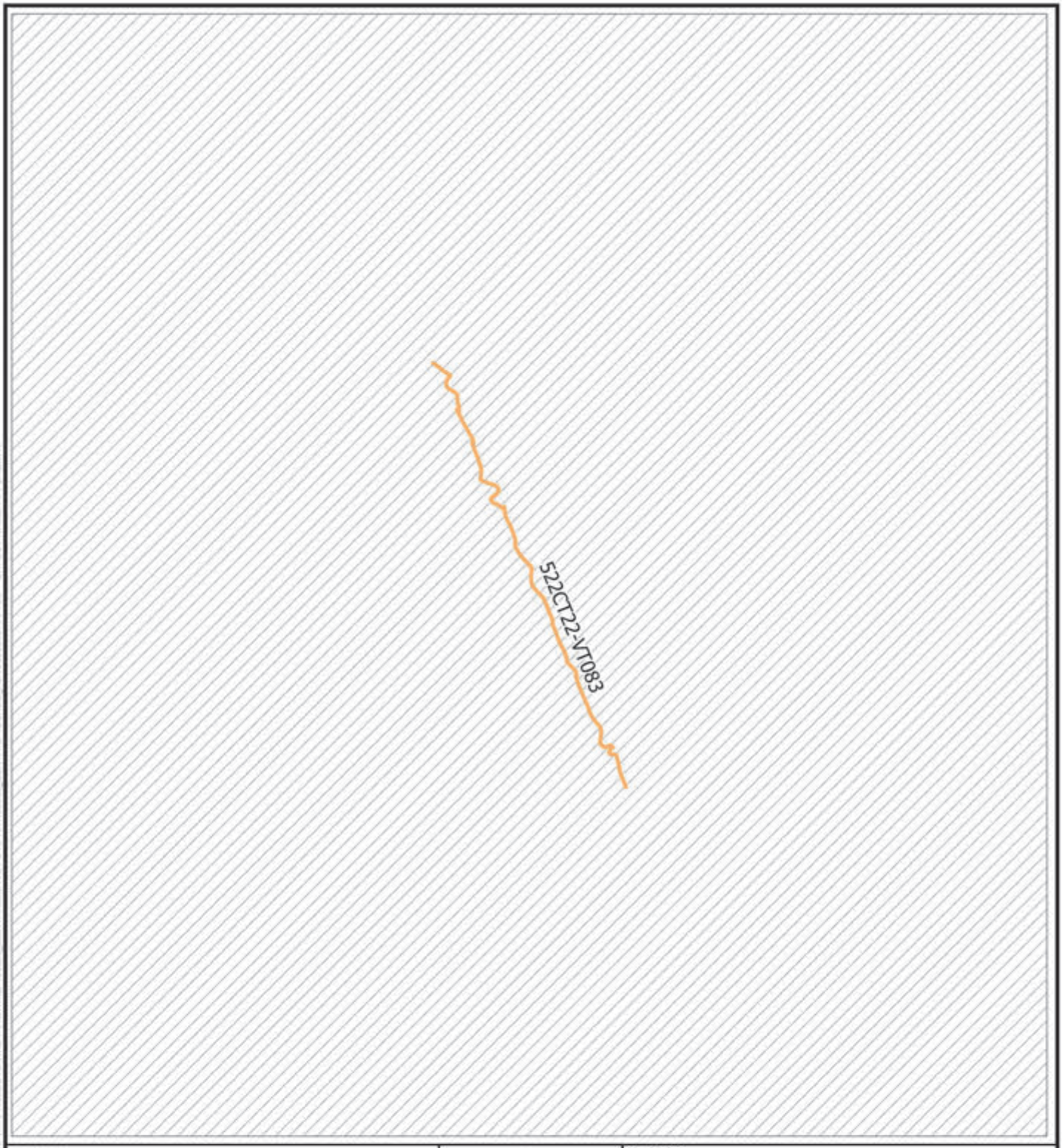


CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

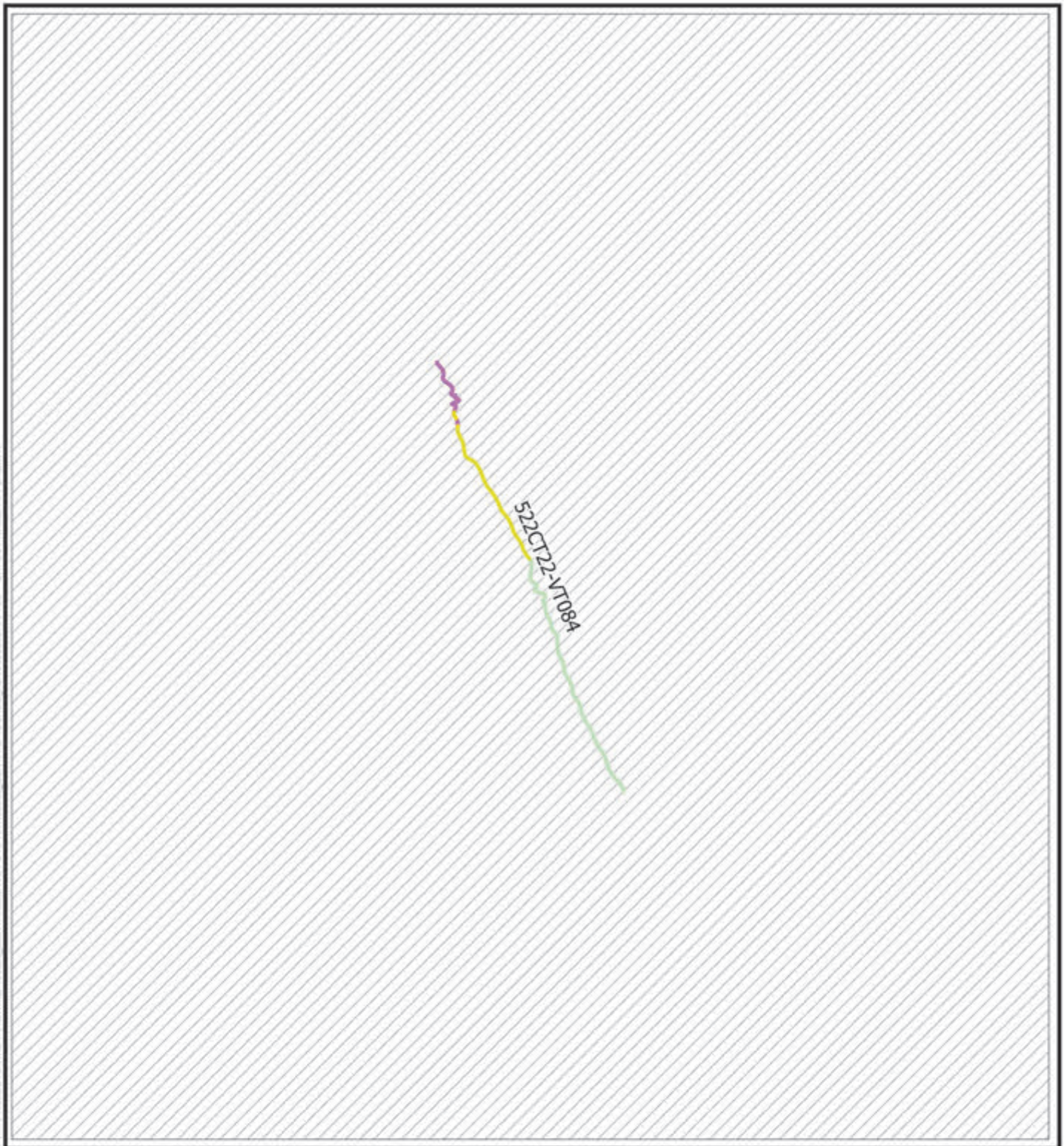
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT083

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHOS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

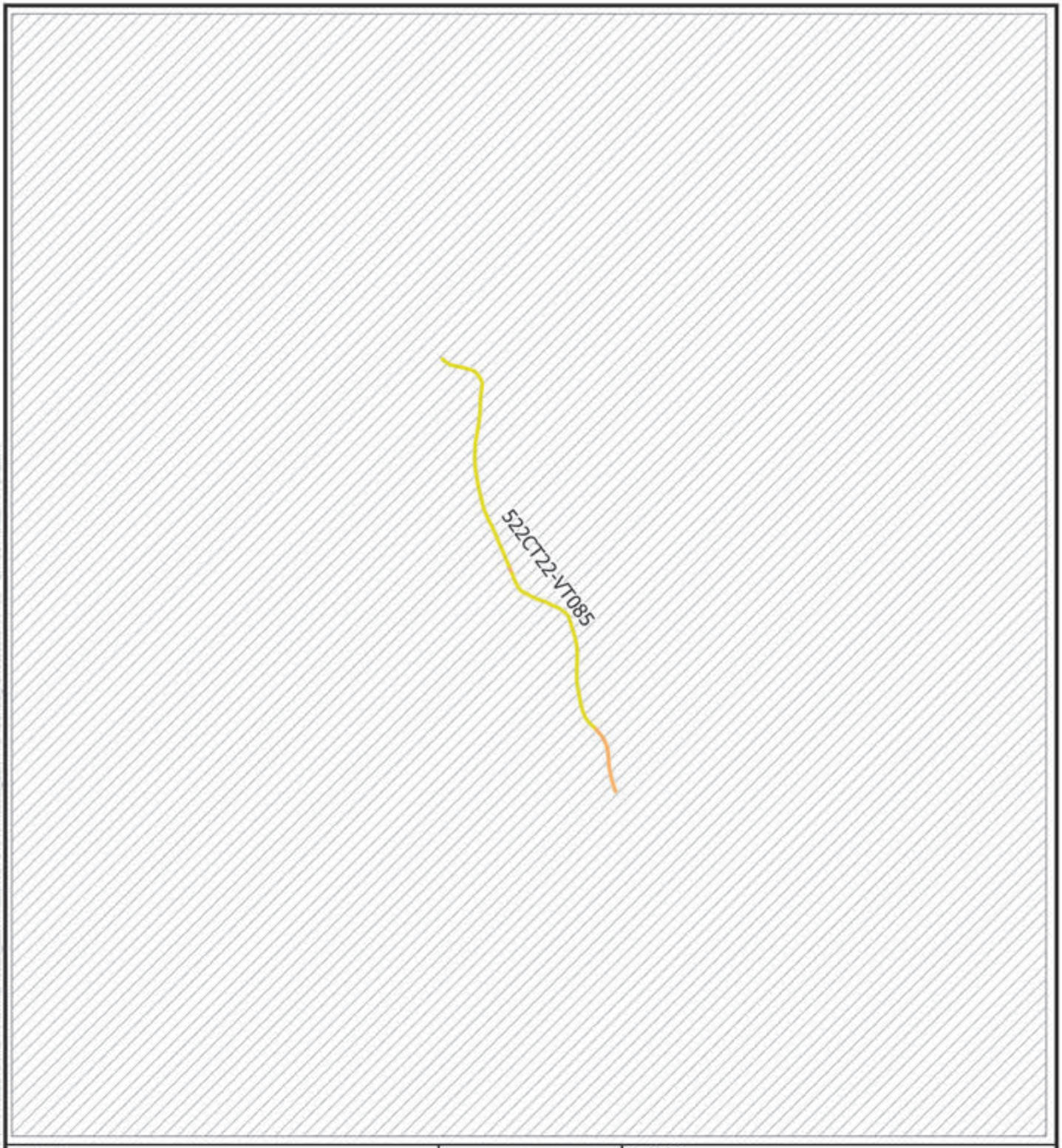
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT084

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

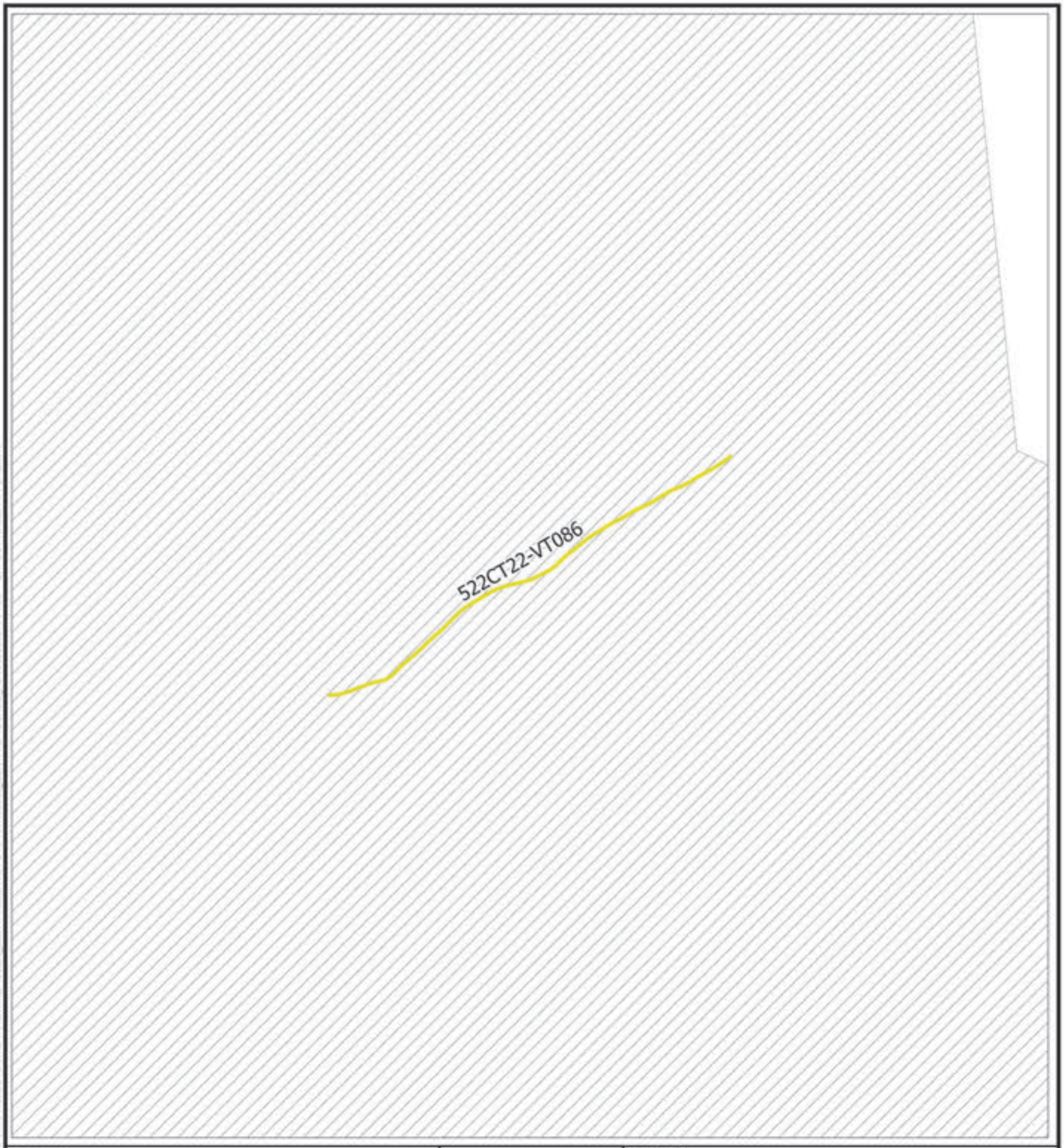
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT085

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor

Shell

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT086

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor

Sand

N

0 25 50

METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

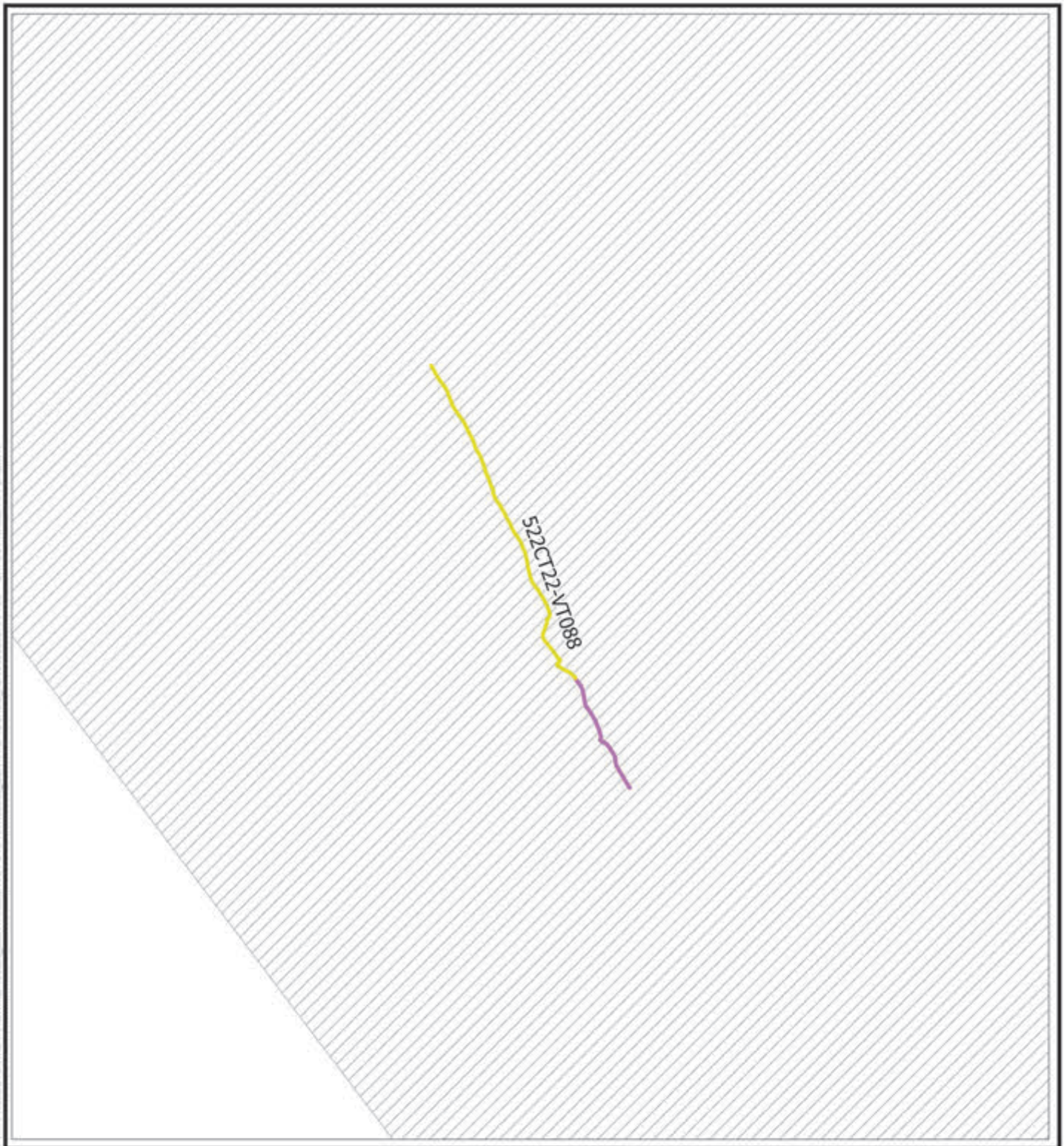
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT087	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

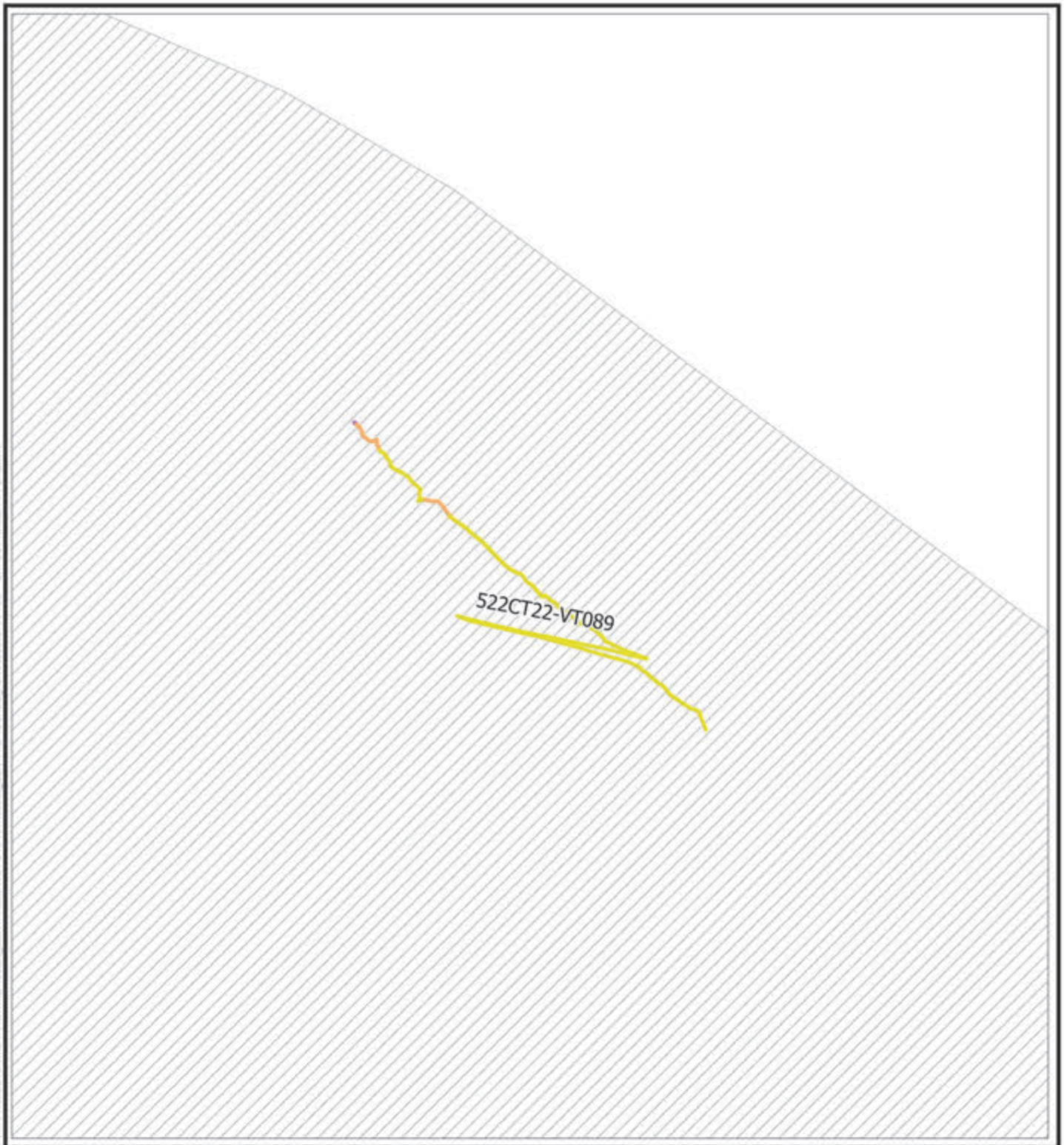
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT088	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT089	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

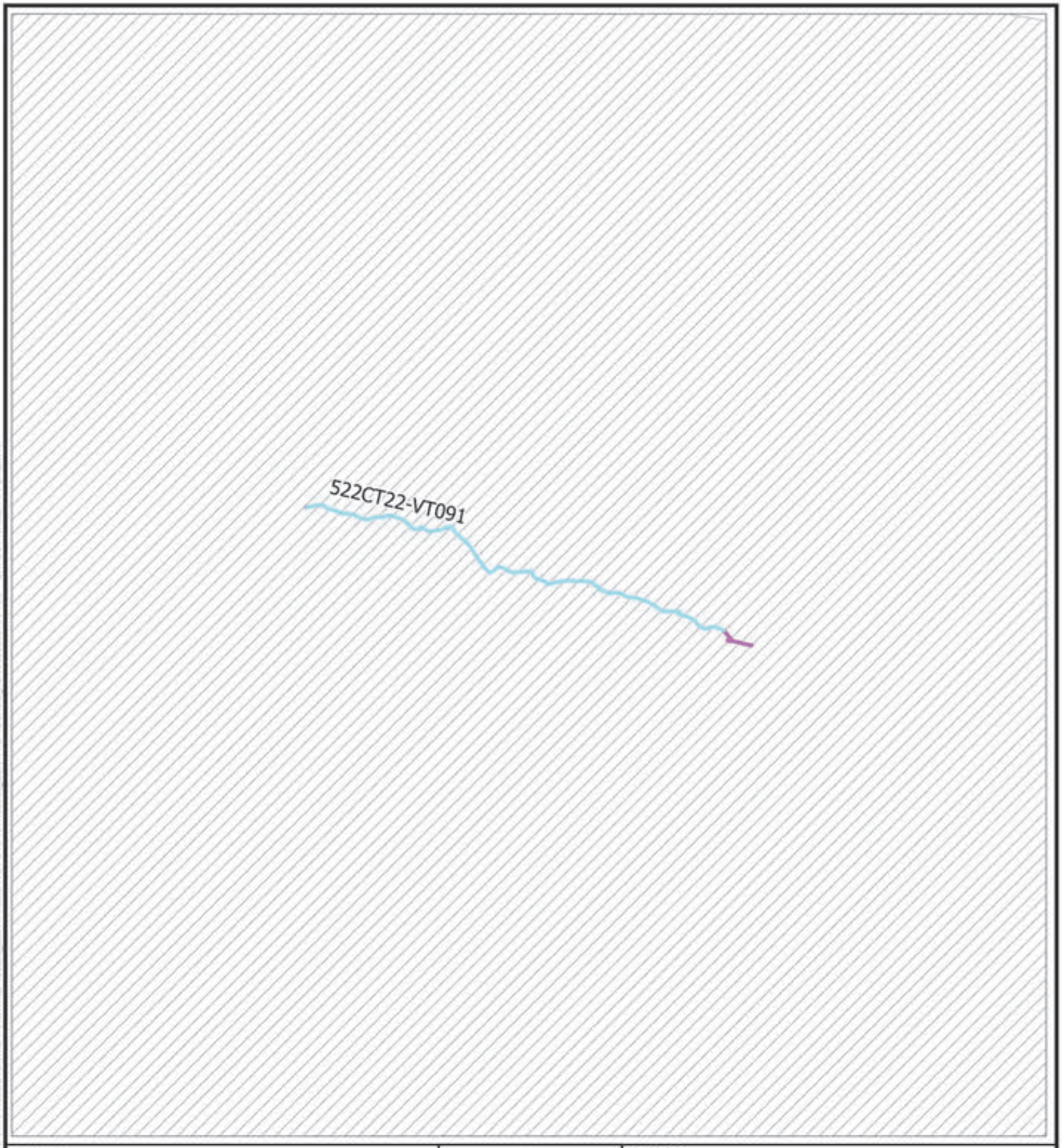
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT090

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMD\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

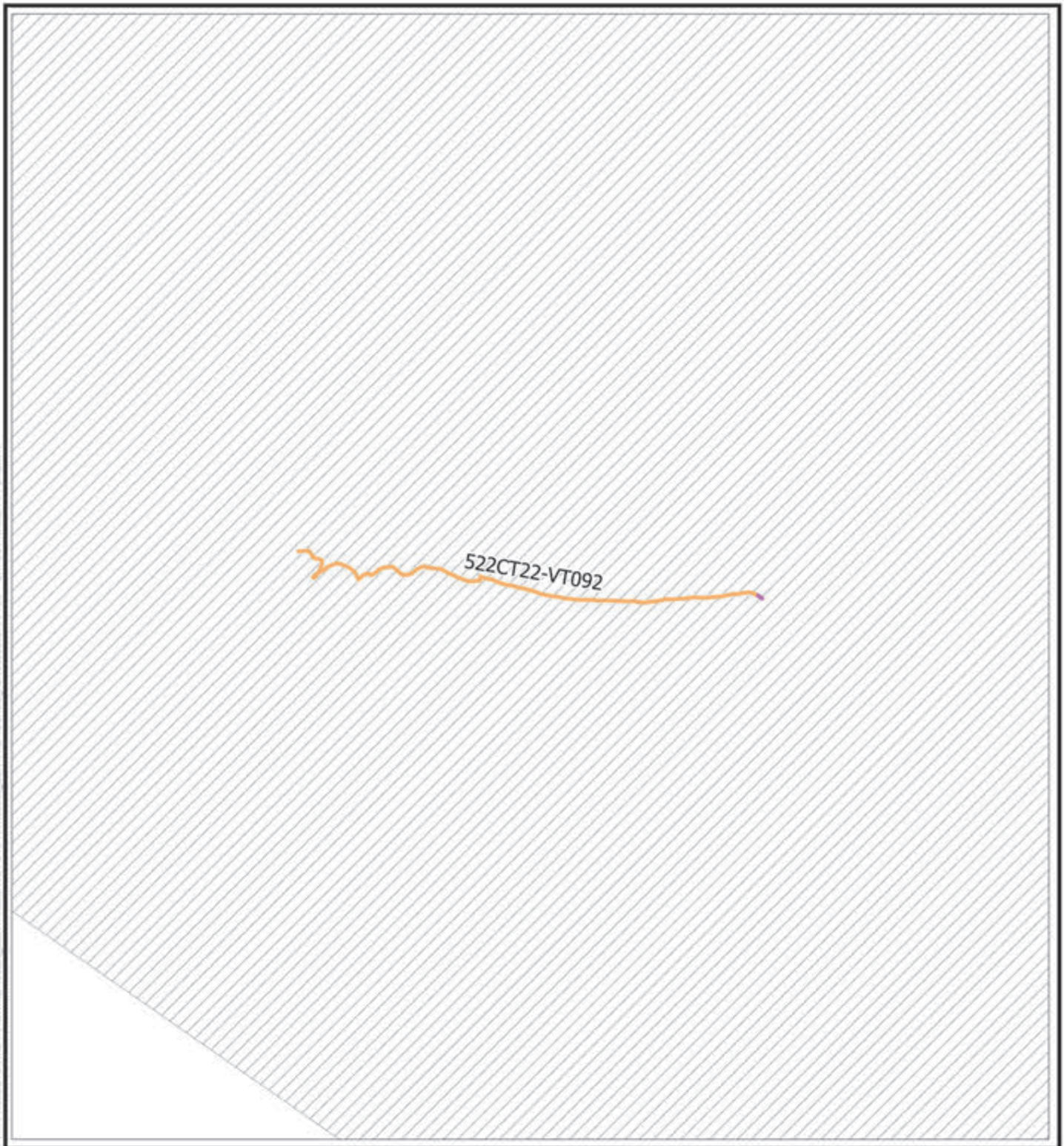
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT091

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\SUNRISEWIND\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT092

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

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CT Offshore Export Cable Corridor
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT093

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

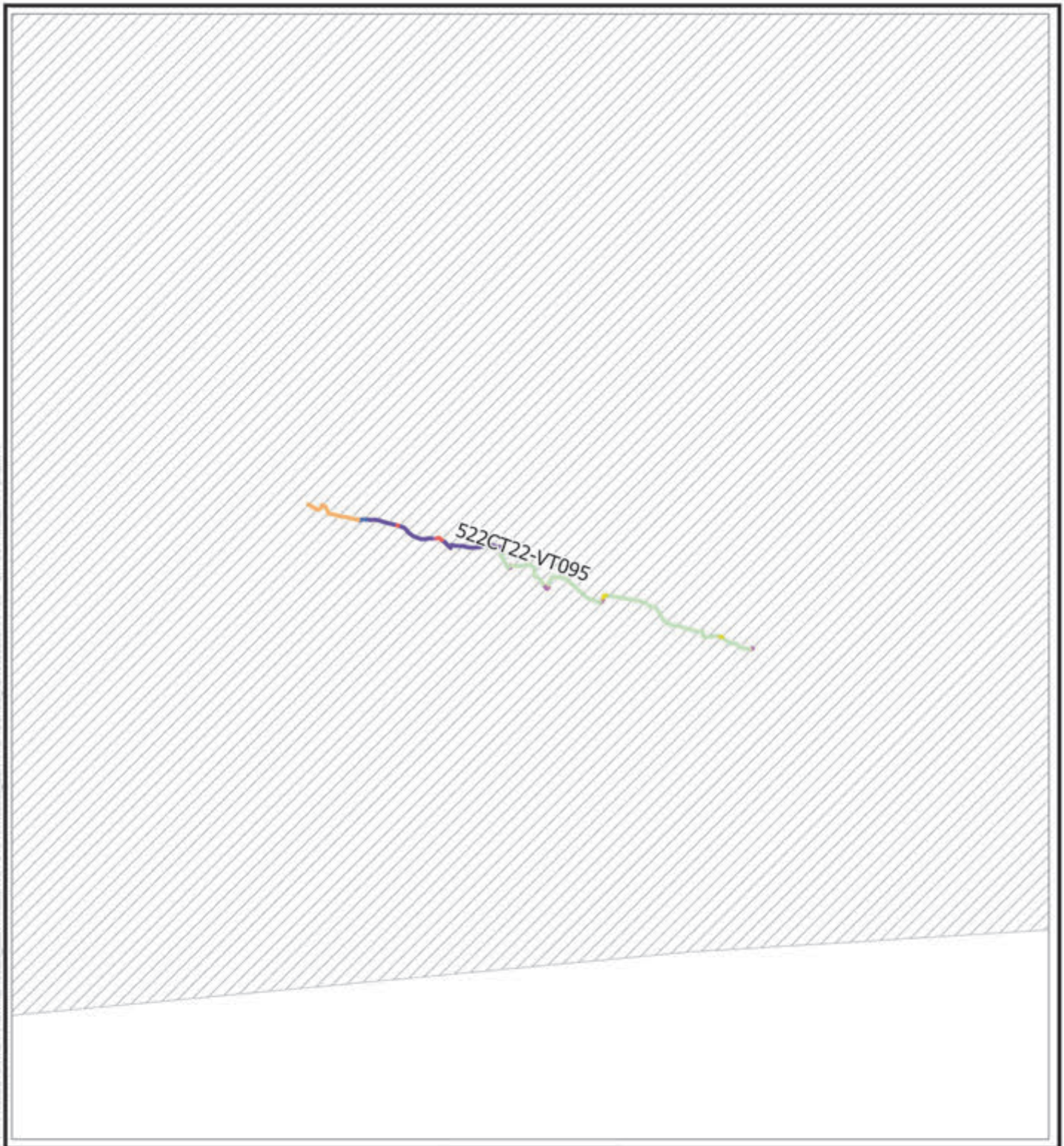
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT094

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Muddy Sand
Sand
Sandy Mud
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
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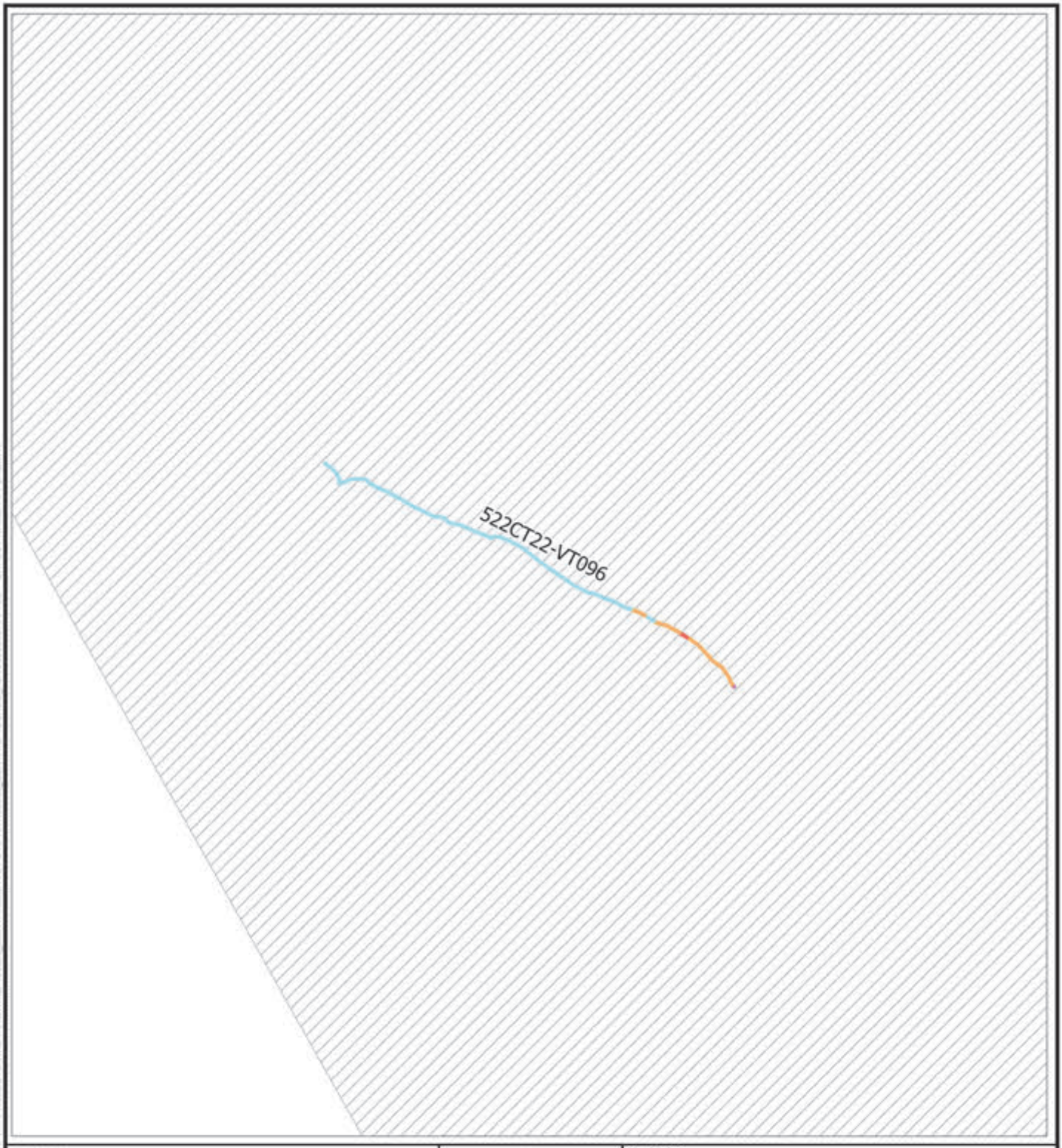
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT095

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 11:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Gravelly
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

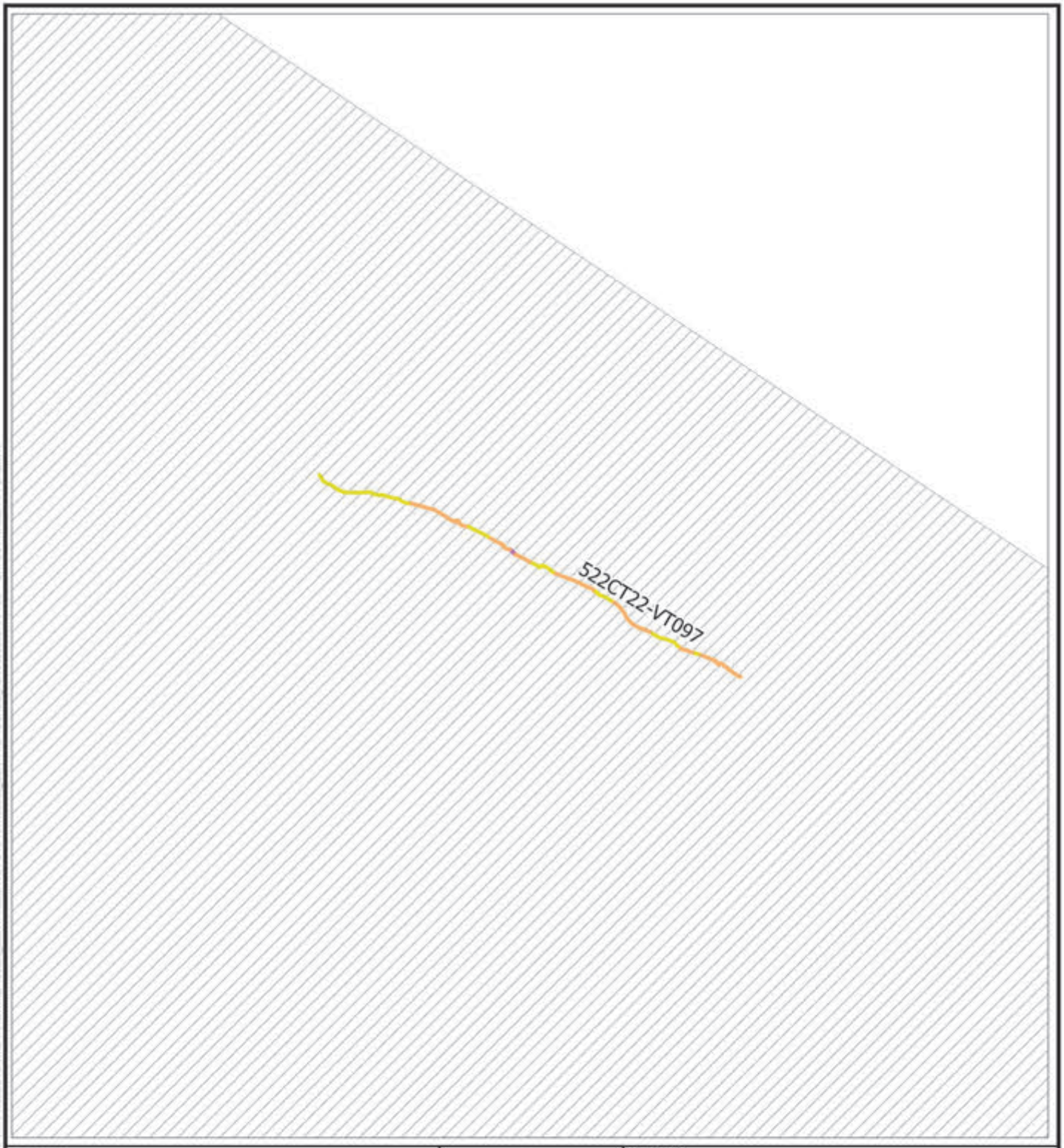
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT096

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\M_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

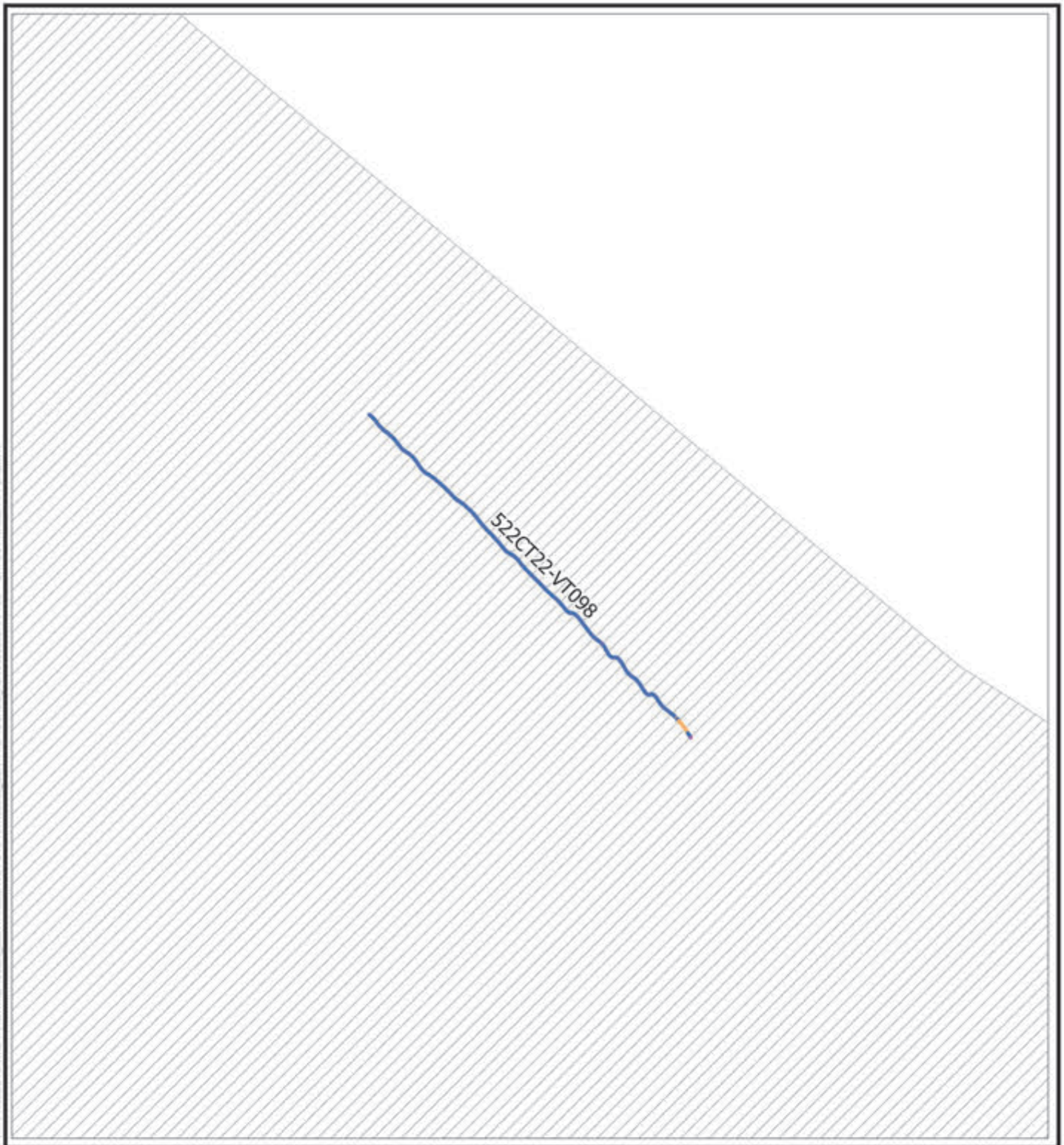
TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT097	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

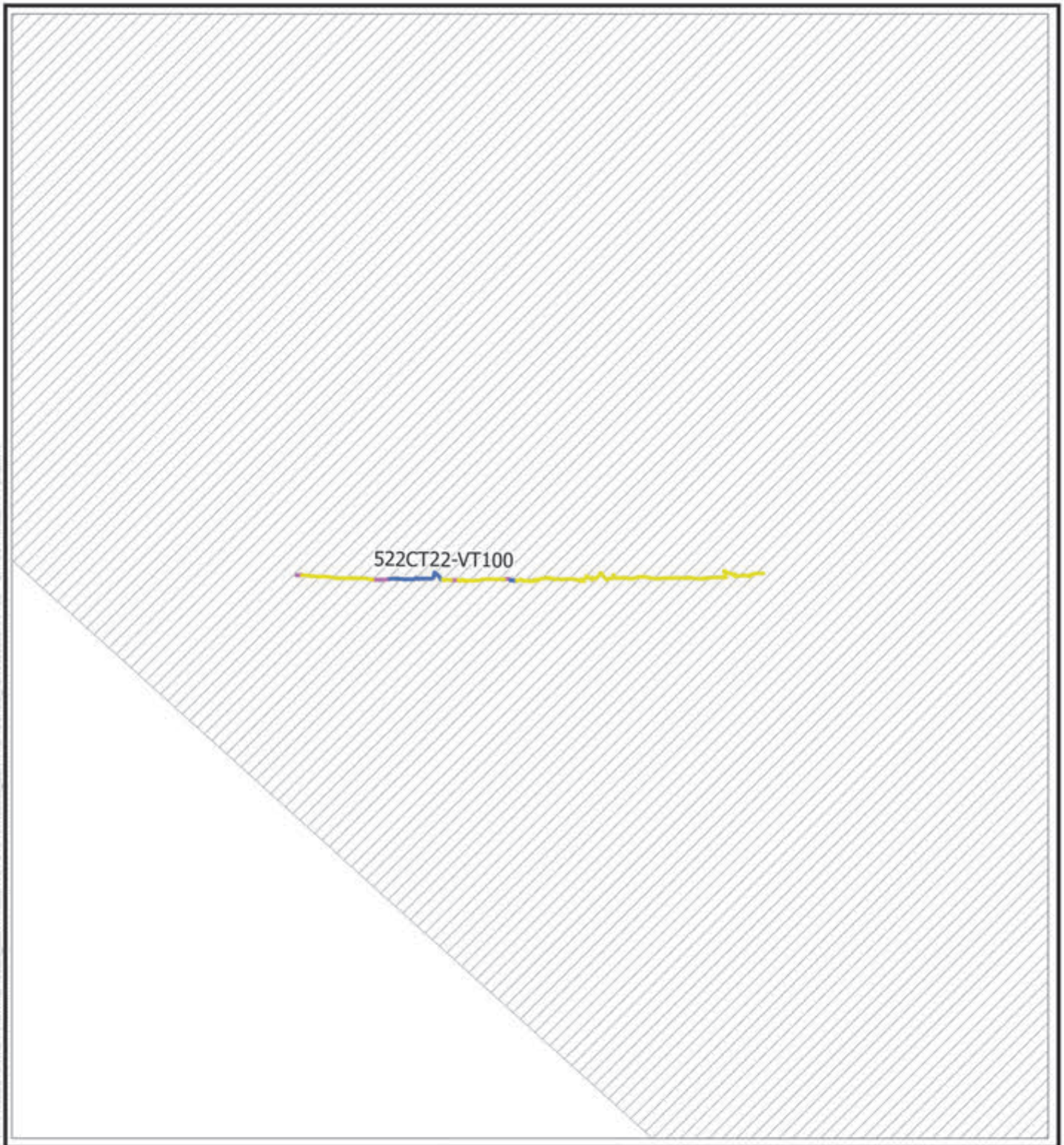
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT098

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

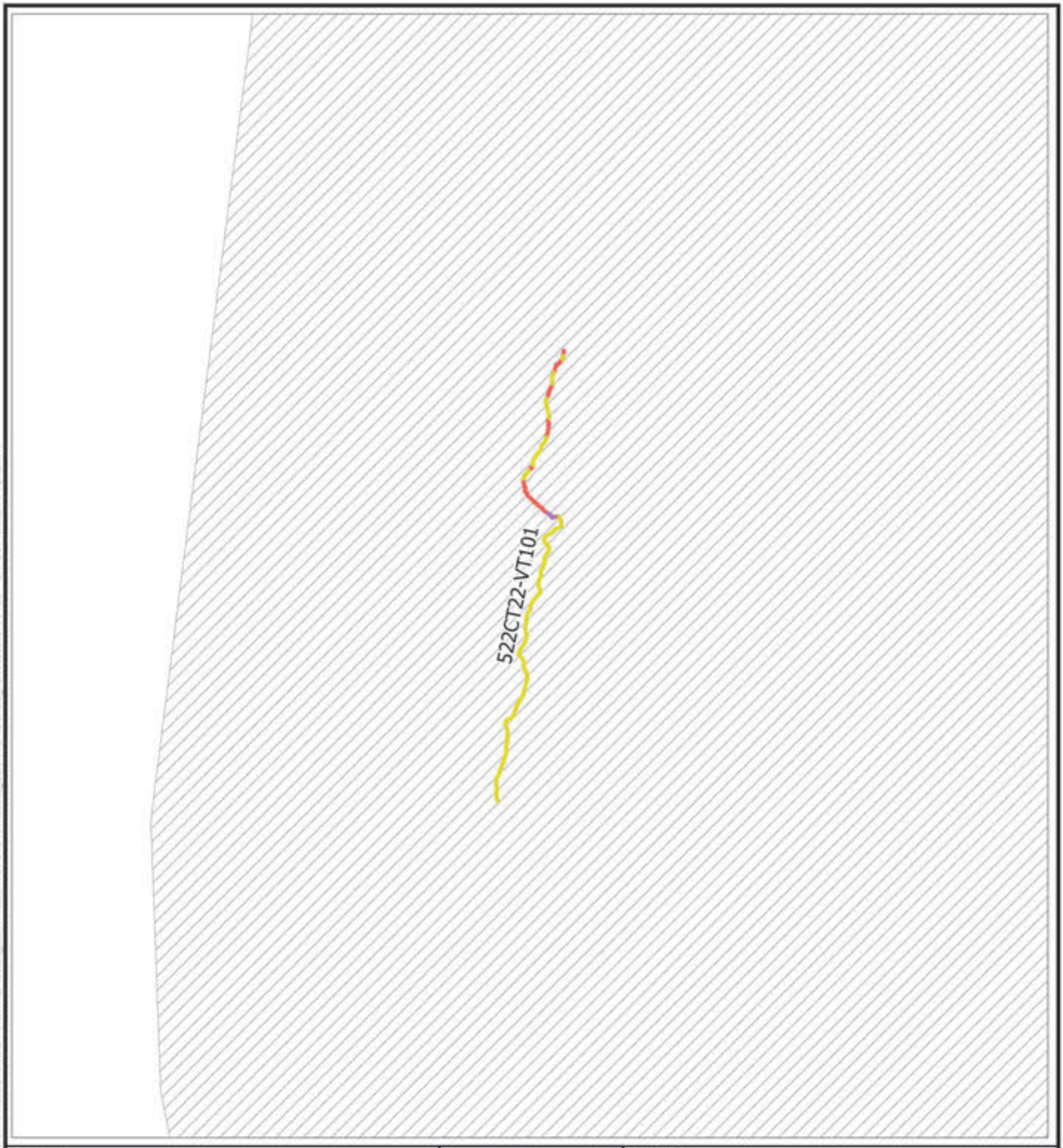
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT100

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel Mixes
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

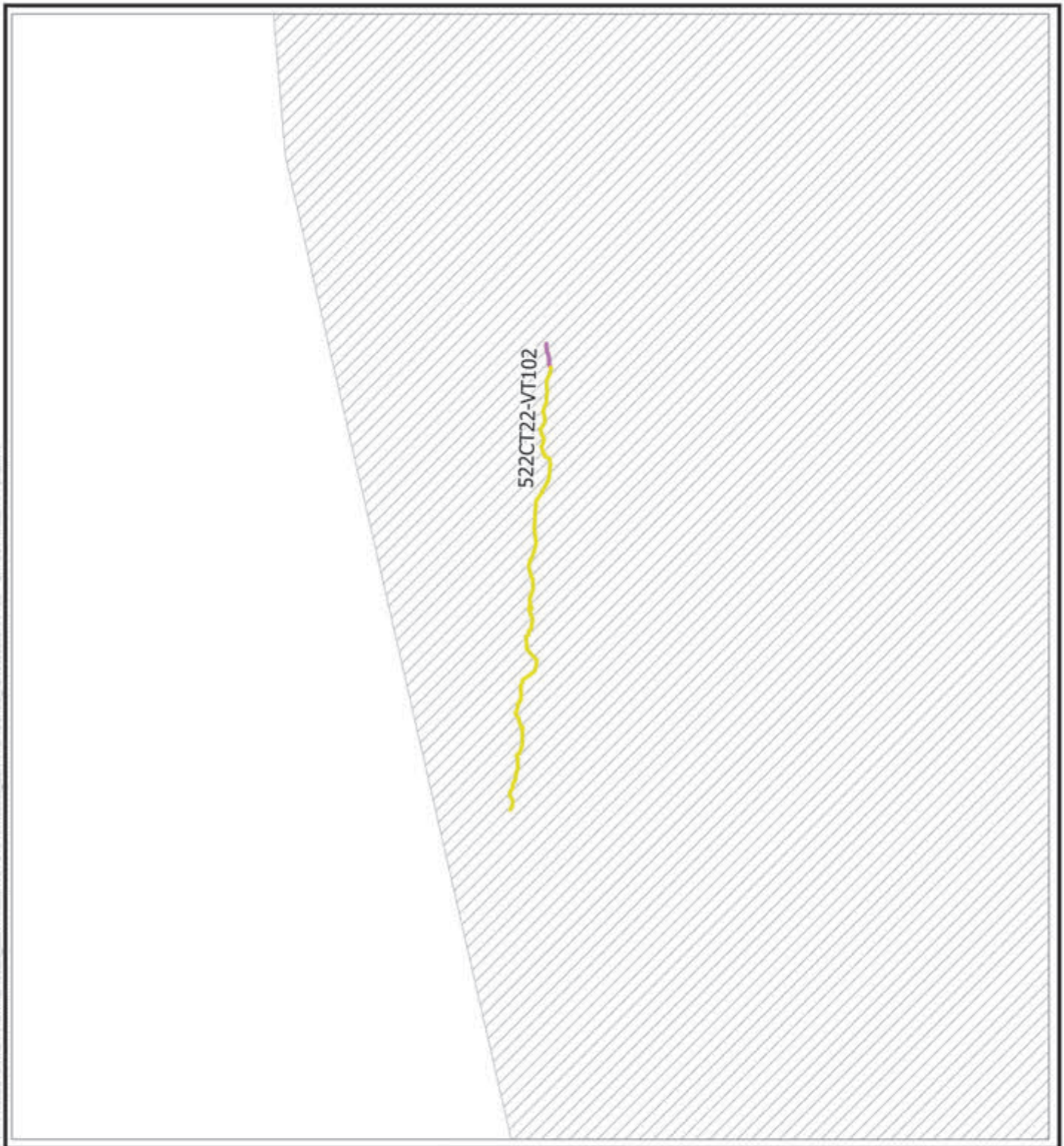
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT101

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG	**Appendix O**	
DATE:	APRIL 2023	Transect: 522CT22-VT102	

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\ARRAY\483856_BENTHICFIGURES_REV20230327.ARRAY LAYOUT NAME: ARRAY_A

CT Offshore Export Cable Corridor
Muddy Sand
Uncharacterized - Visibility Compromised

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT104

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEG\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O

CT Offshore Export Cable Corridor
Gravelly
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

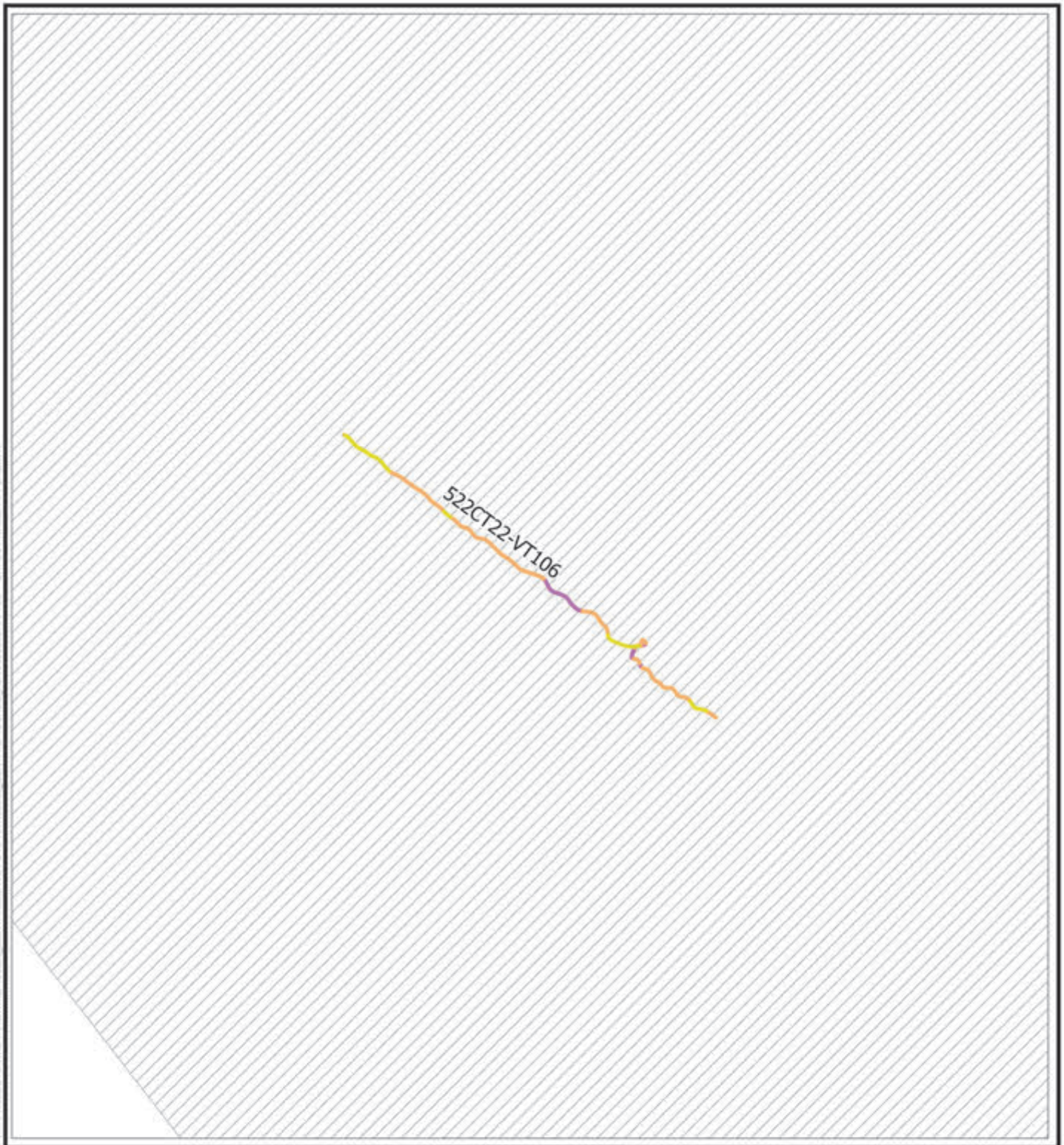
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT105

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 10:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\ARCHIVE\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

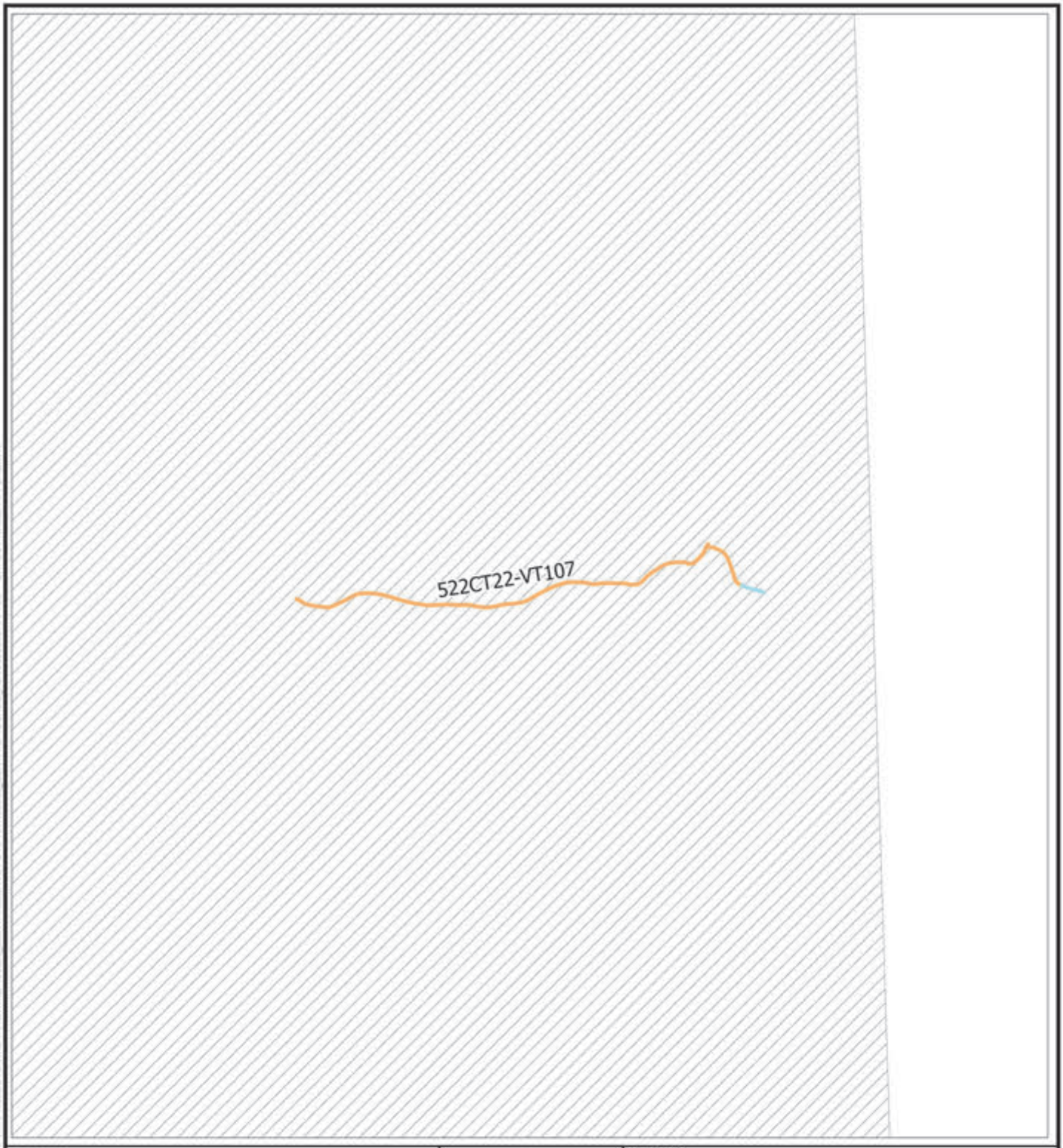
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT106

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

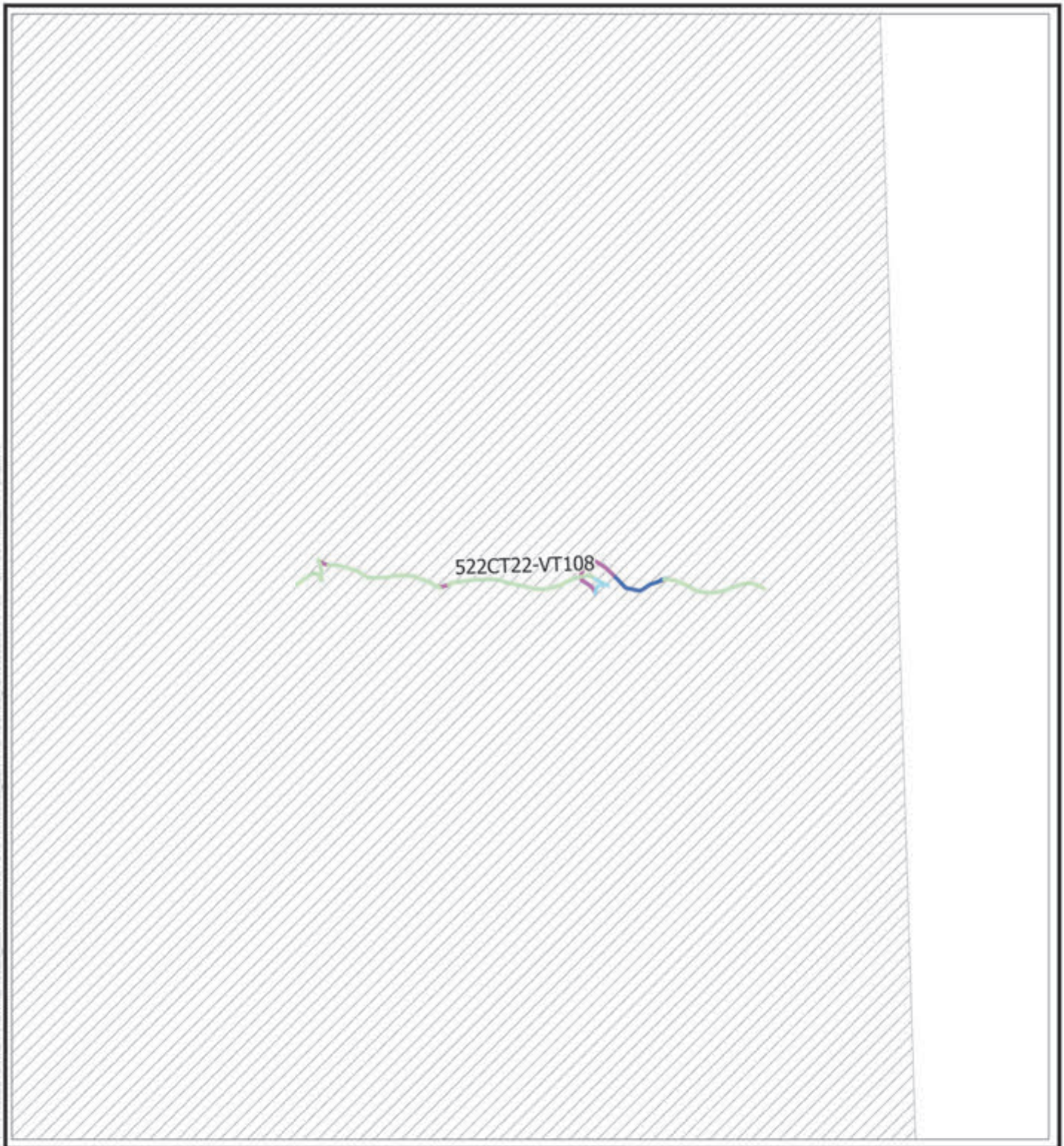
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT107

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravelly
Muddy Sand
Uncharacterized - Visibility Compromised

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

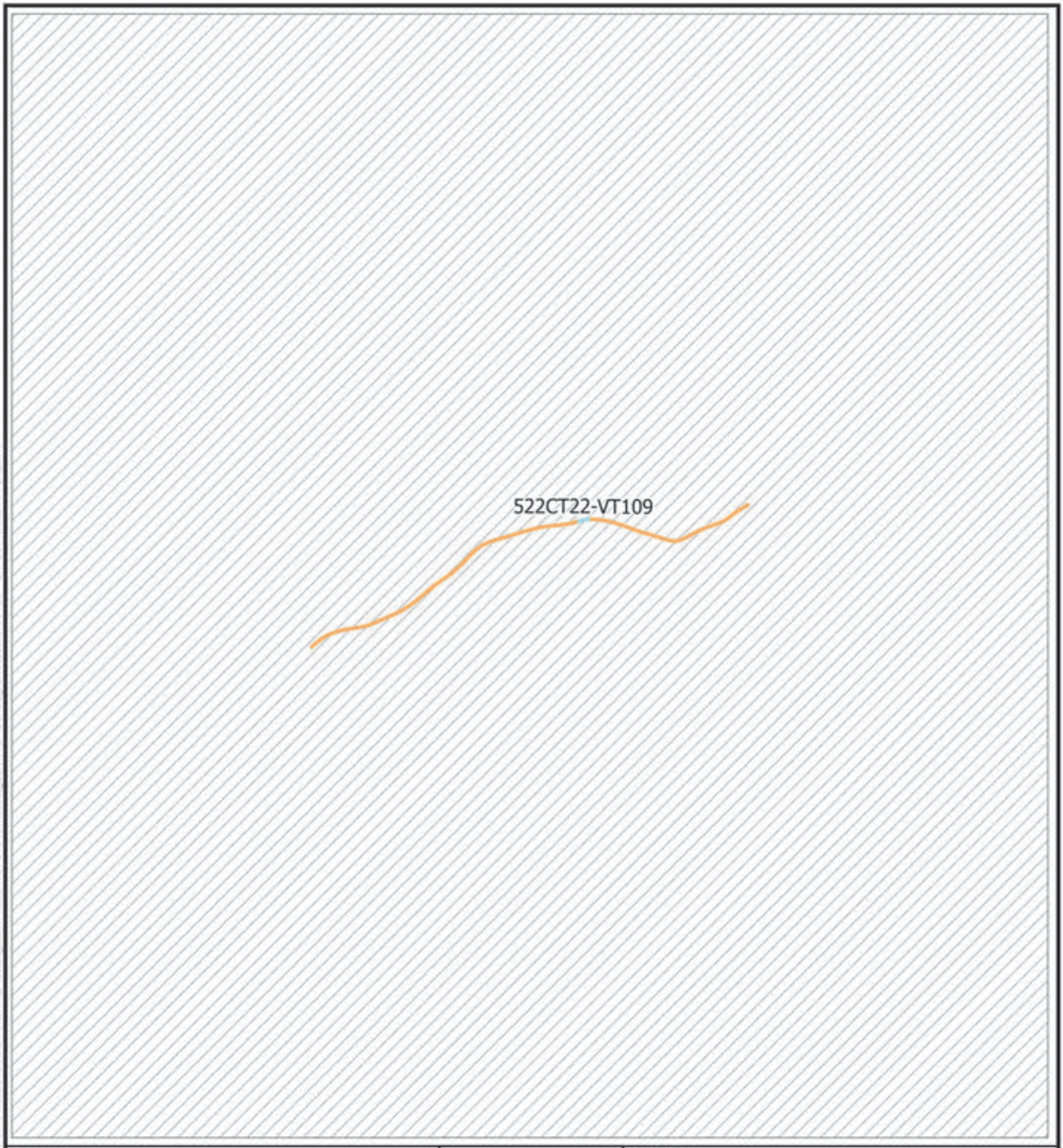
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT108

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICS\REVISED\FIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

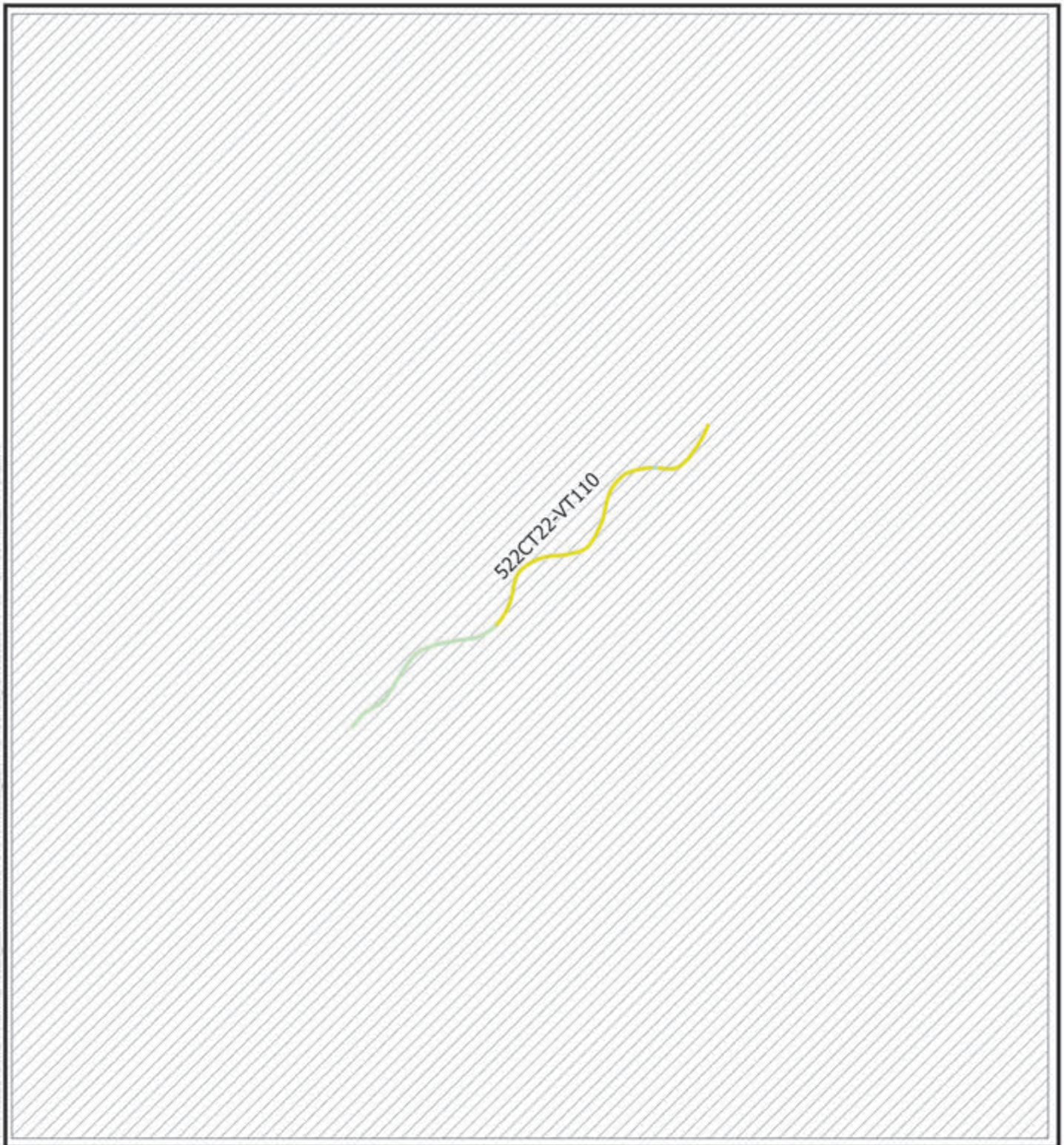
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT109

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Muddy Sand
Shell

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

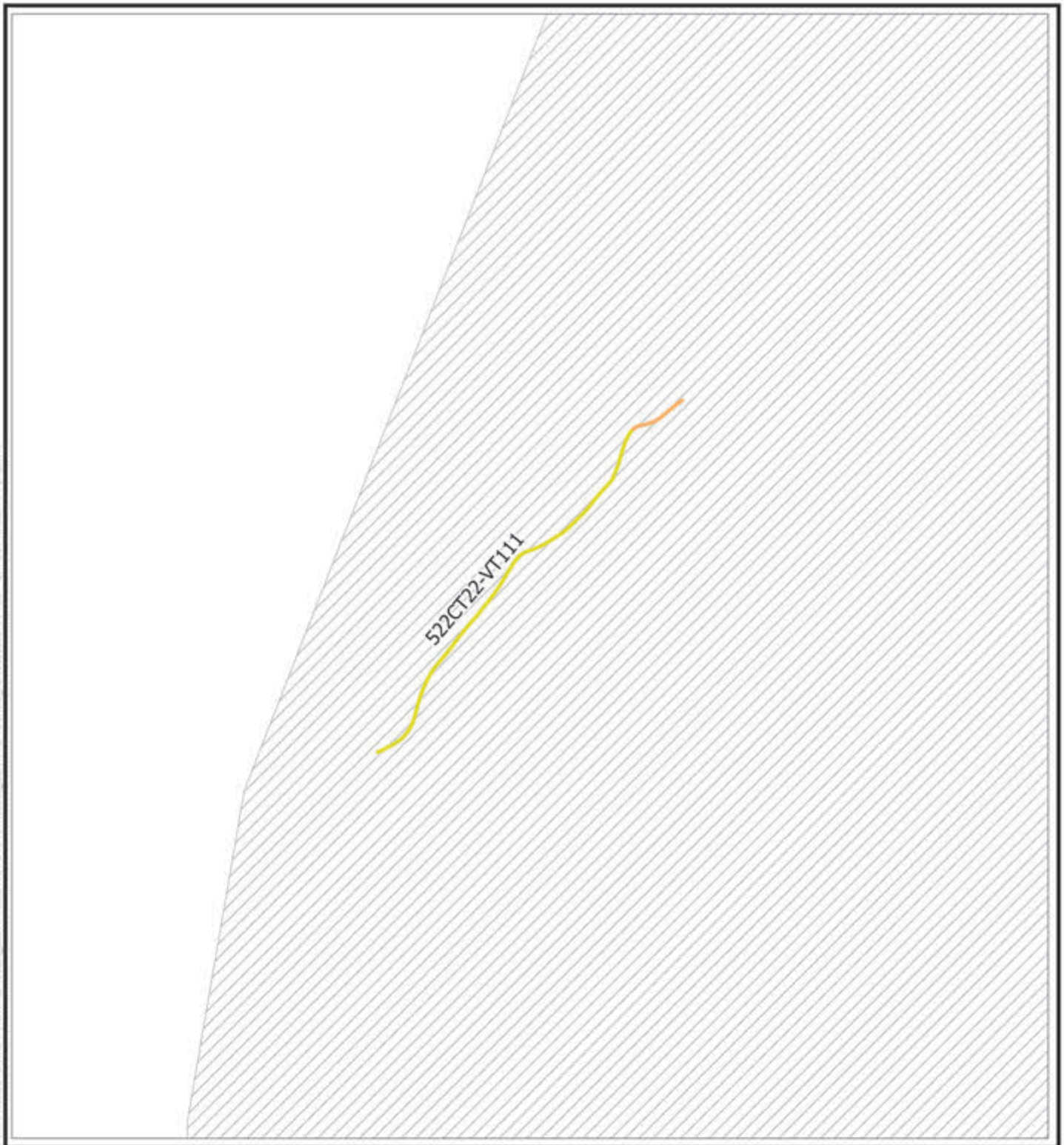
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT110

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVEST\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

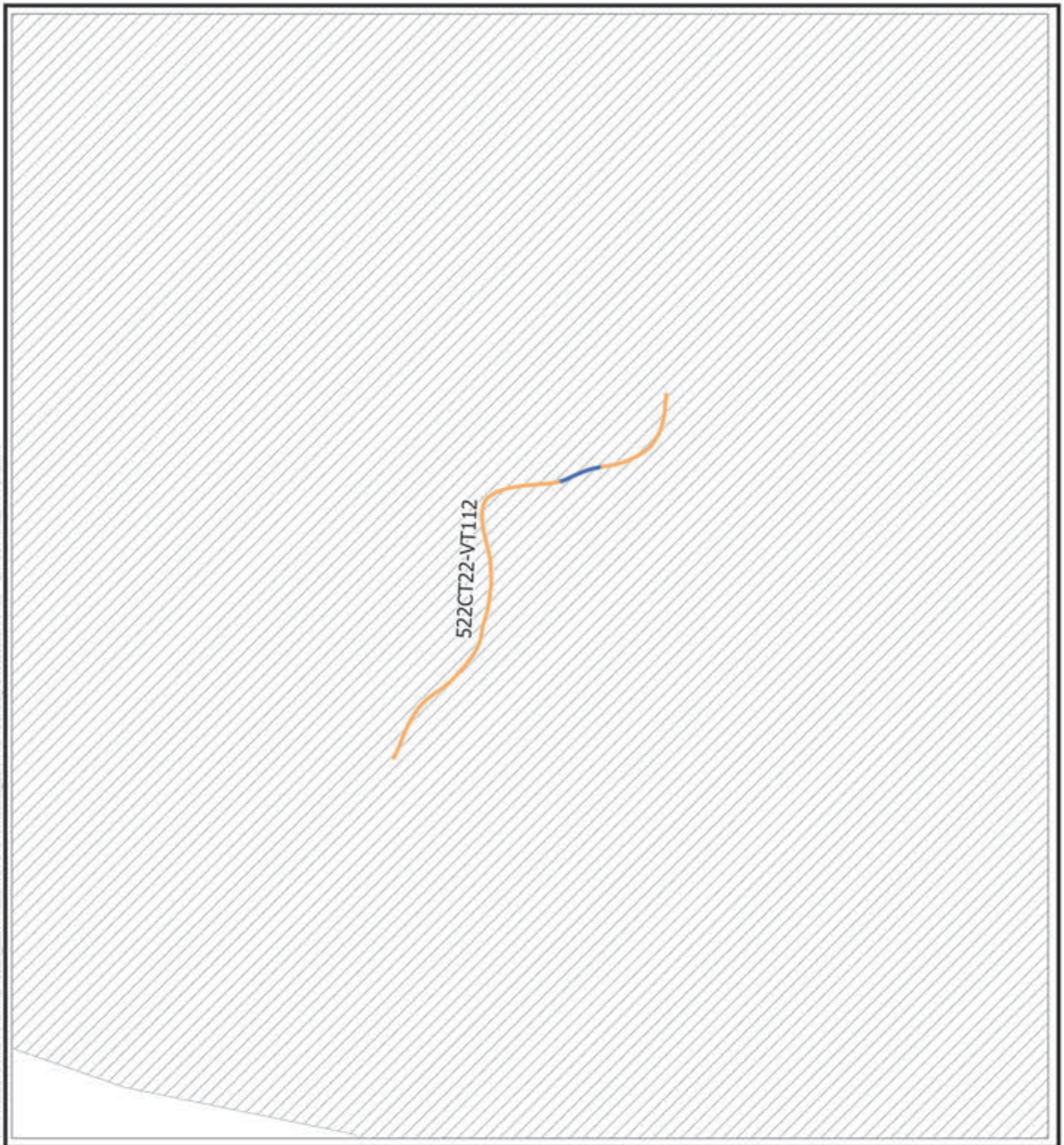
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT111

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\APPENDIX\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

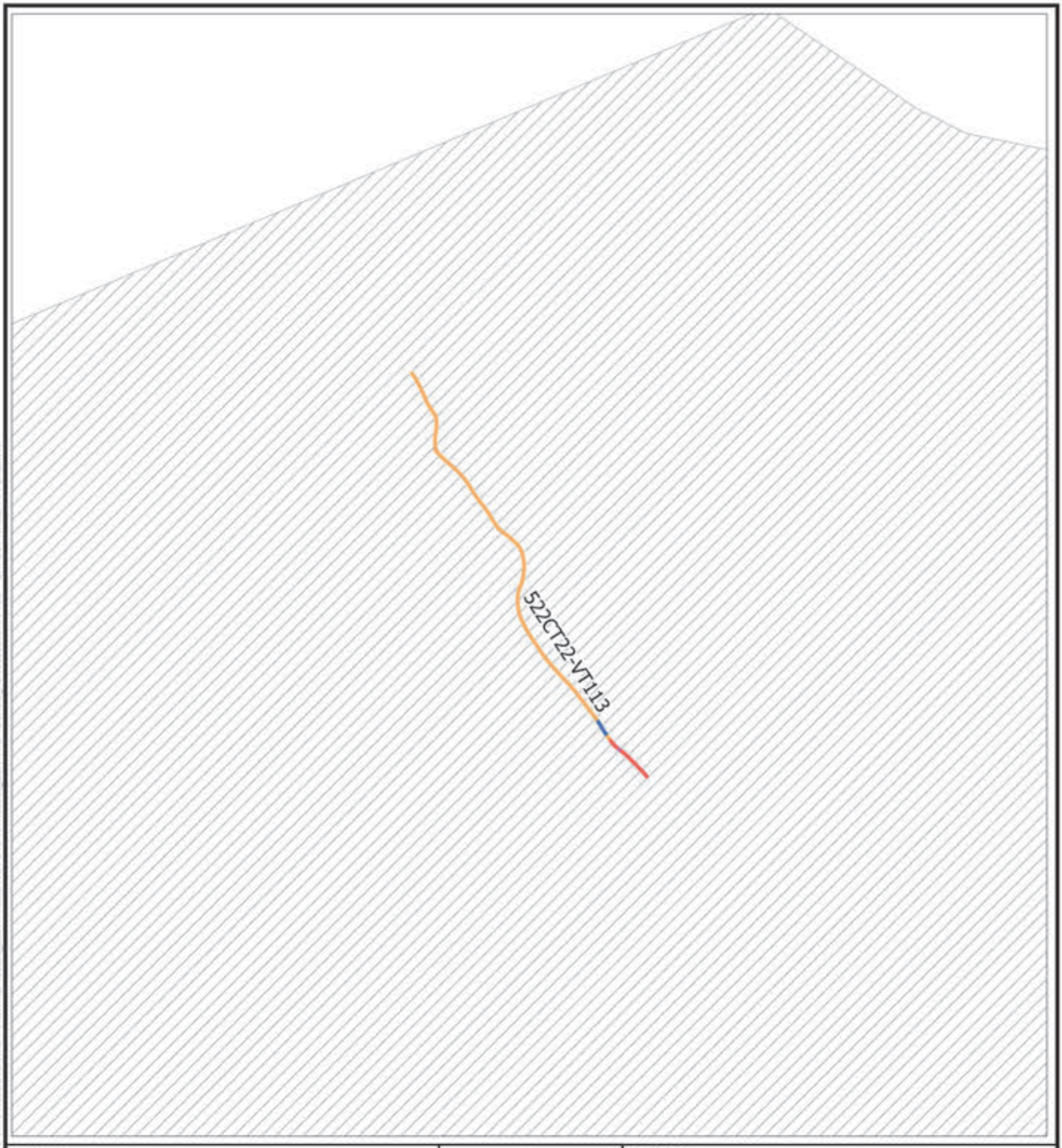
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT112

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 13:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICSURVEY\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Sand
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

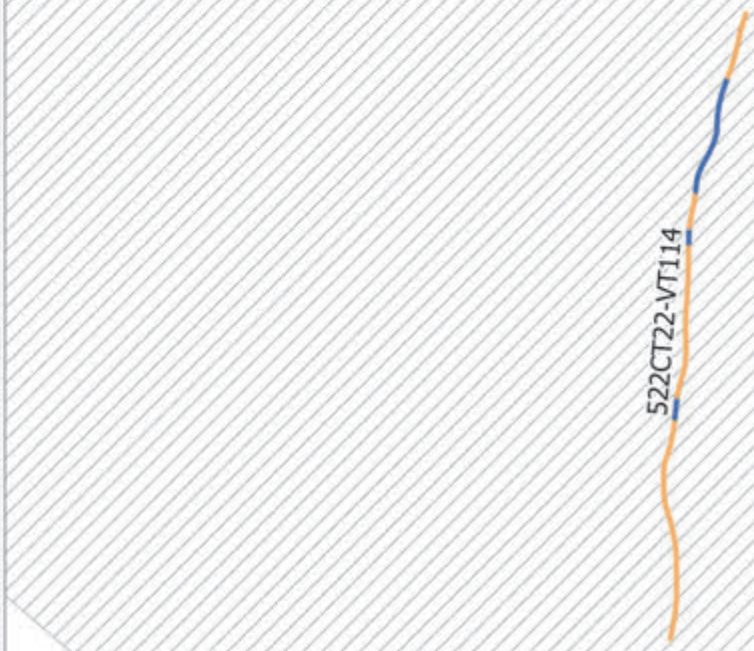
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT113

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVES\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

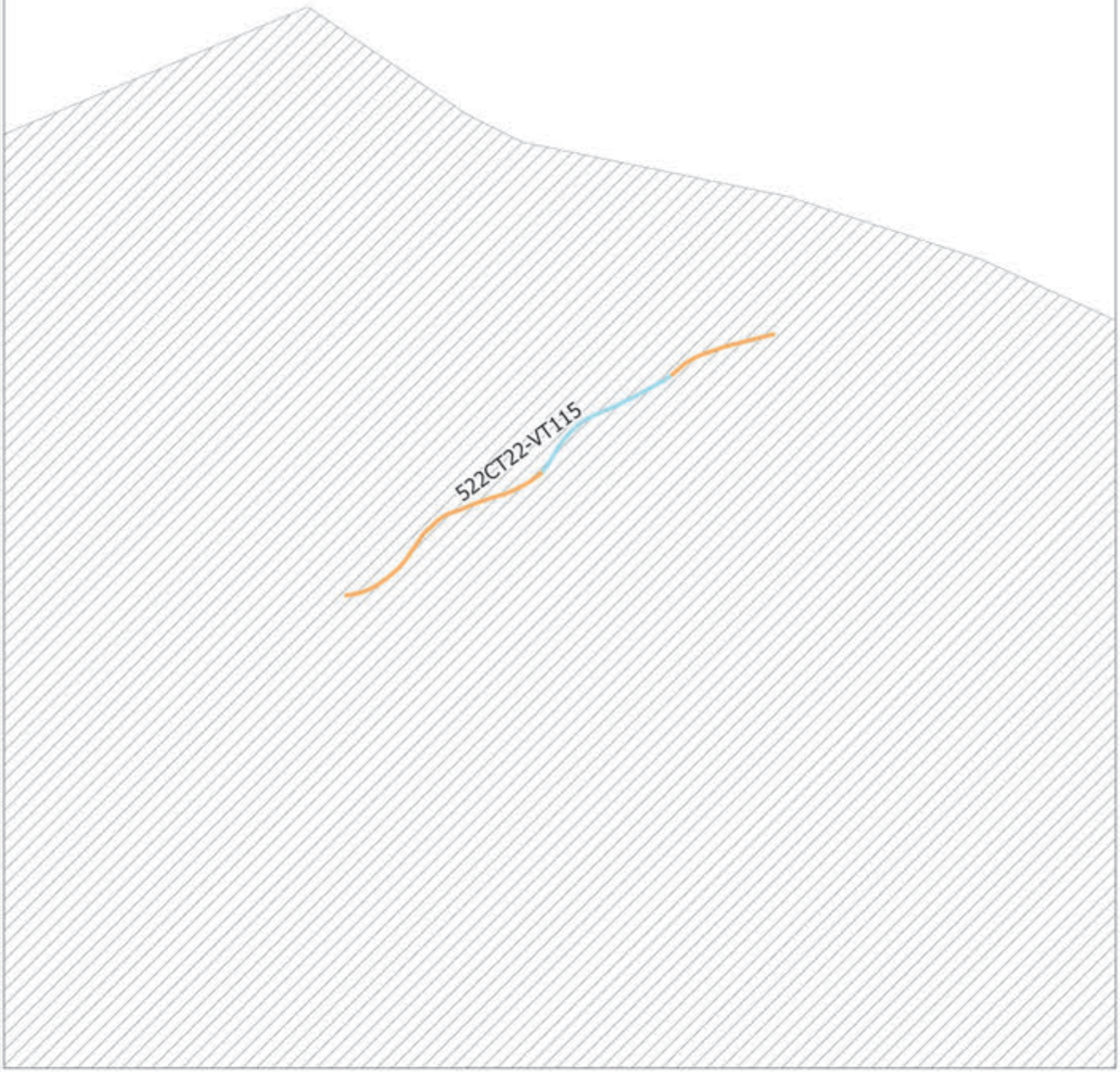
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT114

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RIVER\ARCMAP\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravelly
Sand

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

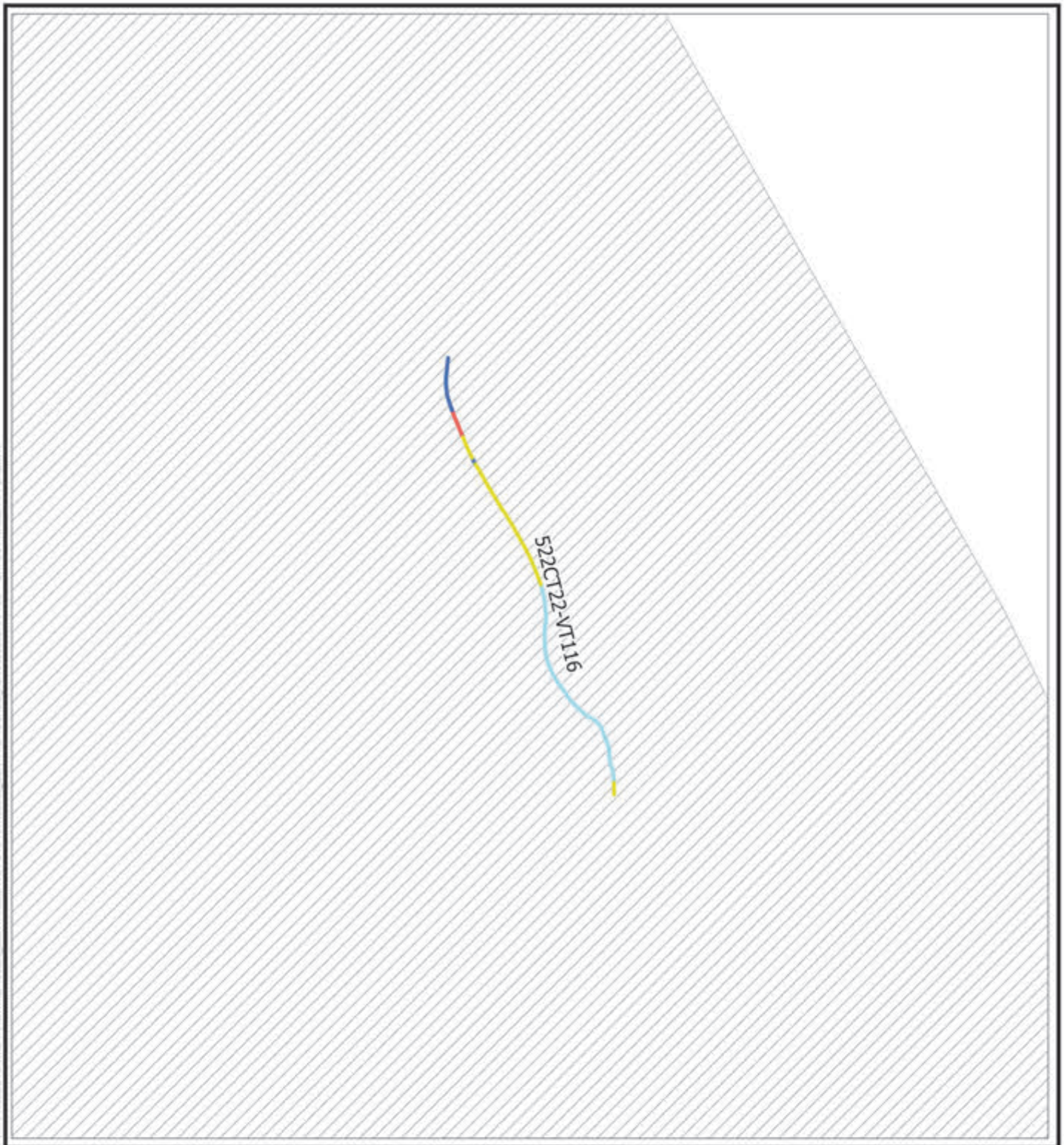
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT115

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM, FILE PATH: T:\LPROJECT\VINEYARD\MMO\483856_BENTHICS\RVEC\LAYOUT\483856_BENTHICFIGURES_REV20230327.MXD, LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Gravel Mixes
Gravelly
Shell

N

0 25 50
METERS

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

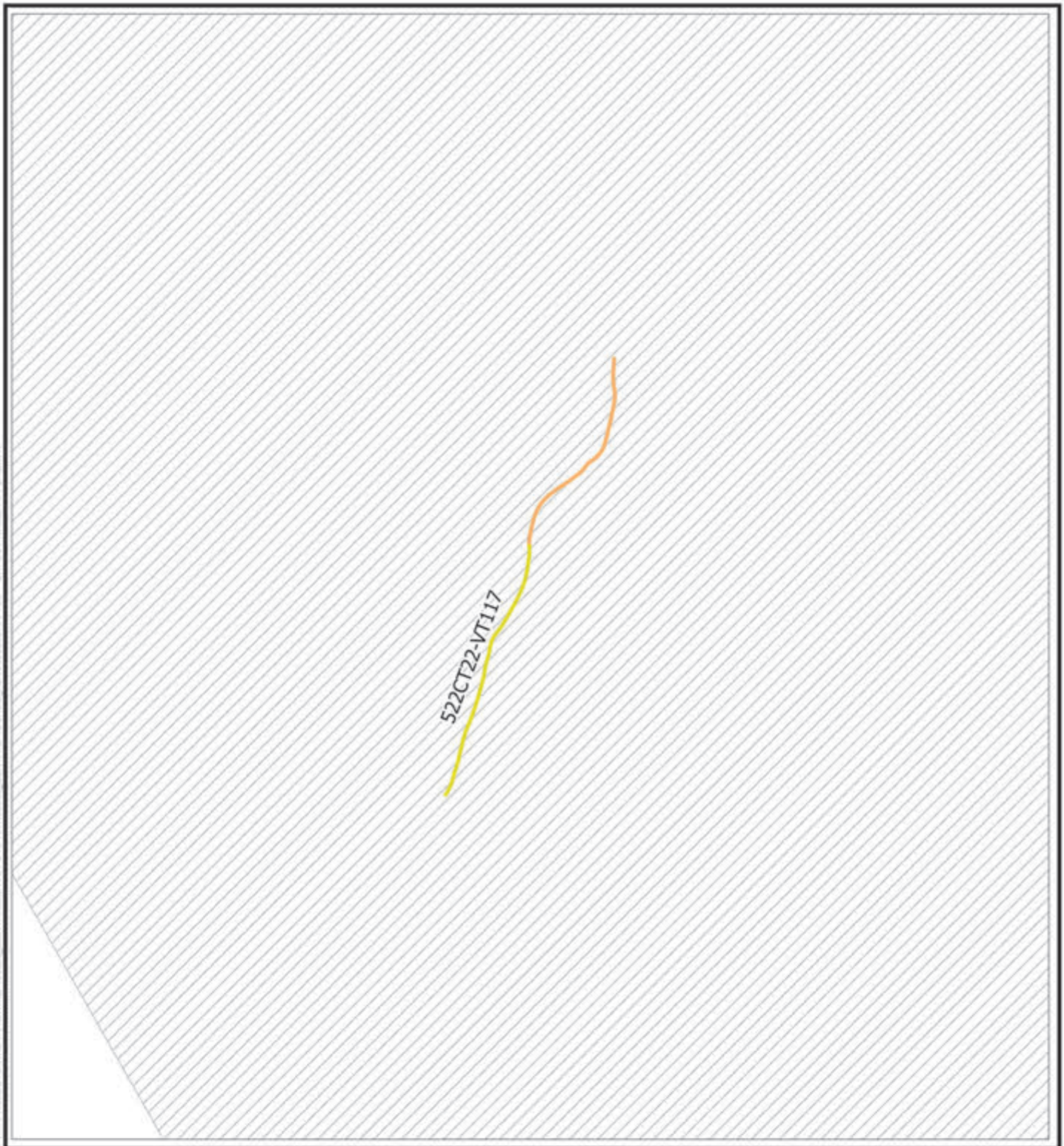
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT116

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 10:37:31 PM FILE PATH: T:\PROJECTS\VINEYARD\MXD\483856_BENTHICS\RIVER\LAYOUTS\483856_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Sand
Shell

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT:
VINEYARD NORTHEAST

TITLE:
CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

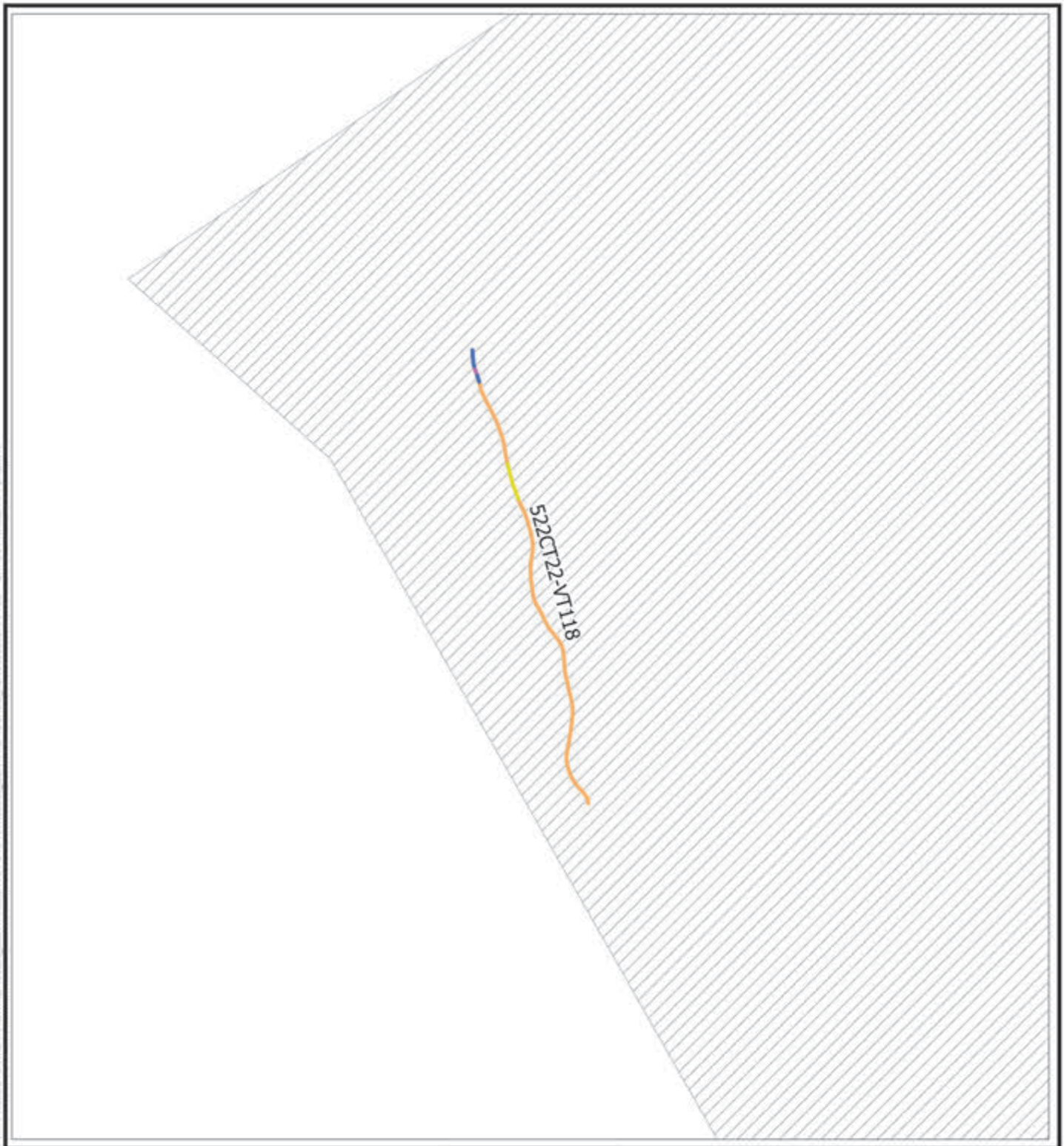
DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT117

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023, 12:37:31 PM FILE PATH: T:\LPROJECTS\VINEYARD\MXD\483856_BENTHICSURVEYS\APPENDIX_BENTHICFIGURES_REV20230327.MXD LAYOUT NAME: APPENDIX O



CT Offshore Export Cable Corridor
Gravel
Sand
Shell
Uncharacterized - Visibility Compromised

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 25 50
METERS

PROJECT: VINEYARD NORTHEAST

TITLE: CMECS CLASSIFICATION MAPS FOR VIDEO SURVEYS

DRAWN BY:	S. DEHAINAUT	PROJ. NO.:	483856
CHECKED BY:	K. BACHAND		
APPROVED BY:	M. LADEWIG		
DATE:	APRIL 2023		

Appendix O
Transect: 522CT22-VT118

TRC
10 HEMINGWAY DRIVE
2ND FLOOR
EAST PROVIDENCE, RI 02915
PHONE: 401.330.1236

FILE: 483856_BENTHICFIGURES_REV20230327

SAVED BY: SDEHAINAUT ON 4/13/2023 - 12:37:31 PM - FILE PATH: T:\PROJECTS\VINEYARD\MMO\483856_BENTHICS\RVEC\FIGURES\483856_BENTHICFIGURES_REV20230327.MXD - LAYOUT NAME: APPENDIX O

Appendix P: Summary of Transect Video Post-Processing Modifications

Sample ID	Modification
522CT22-VT001-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT002-2	Video modified to synchronize with DAT
522CT22-VT003-3	Observation timestamp shifted to synchronize with DAT
522CT22-VT004-2	Video modified to synchronize with DAT
522CT22-VT005-8	Observation timestamp shifted to synchronize with DAT
522CT22-VT006-1	Video modified to synchronize with DAT
522CT22-VT007-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT008-1	Video modified to synchronize with DAT
522CT22-VT009-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT010-1	Video modified to synchronize with DAT
522CT22-VT011-3	Observation timestamp shifted to synchronize with DAT
522CT22-VT012-1	Video modified to synchronize with DAT
522CT22-VT013-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT014-3	Video modified to synchronize with DAT
522CT22-VT015-2	No modification made to timestep
522CT22-VT016-1	Video modified to synchronize with DAT
522CT22-VT017-3	Observation timestamp shifted to synchronize with DAT
522CT22-VT018-1	Video modified to synchronize with DAT
522CT22-VT019-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT020-2	Video modified to synchronize with DAT
522CT22-VT021-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT022-1	Video modified to synchronize with DAT
522CT22-VT023-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT024-1	Video modified to synchronize with DAT
522CT22-VT025-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT026-3	Video modified to synchronize with DAT
522CT22-VT027-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT028-4	Video modified to synchronize with DAT
522CT22-VT029-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT030-1ALT	Observation timestamp shifted to synchronize with DAT
522CT22-VT031-5	Observation timestamp shifted to synchronize with DAT
522CT22-VT032-1	Video modified to synchronize with DAT
522CT22-VT033-5	Observation timestamp shifted to synchronize with DAT
522CT22-VT034-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT035-4	Video modified to synchronize with DAT
522CT22-VT036-3	Observation timestamp shifted to synchronize with DAT
522CT22-VT037-1	Video modified to synchronize with DAT
522CT22-VT038-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT039-2	Video modified to synchronize with DAT
522CT22-VT040-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT041-1	Video modified to synchronize with DAT
522CT22-VT042-4	Observation timestamp shifted to synchronize with DAT
522CT22-VT043-1	Video modified to synchronize with DAT

Sample ID	Modification
522CT22-VT044-3	Video modified to synchronize with DAT
522CT22-VT045-5	No modification made to timestep
522CT22-VT046-4	Observation timestamp shifted to synchronize with DAT
522CT22-VT047-5	Video modified to synchronize with DAT
522CT22-VT048-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT049-2	No modification made to timestep
522CT22-VT050-4	Observation timestamp shifted to synchronize with DAT
522CT22-VT051-1	Video modified to synchronize with DAT
522CT22-VT052-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT053-1	Video modified to synchronize with DAT
522CT22-VT054-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT055-1	Video modified to synchronize with DAT
522CT22-VT056-4	Observation timestamp shifted to synchronize with DAT
522CT22-VT057-12	No modification made to timestep
522CT22-VT057-6	No modification made to timestep
522CT22-VT058-4	No modification made to timestep
522CT22-VT059-4	No modification made to timestep
522CT22-VT060-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT061-2	No modification made to timestep
522CT22-VT062-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT064-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT065-1	No modification made to timestep
522CT22-VT066-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT067-1	No modification made to timestep
522CT22-VT068-1	No modification made to timestep
522CT22-VT069-1	Video modified to synchronize with DAT
522CT22-VT070-2	No modification made to timestep
522CT22-VT072-3	Observation timestamp shifted to synchronize with DAT
522CT22-VT073-1	Video modified to synchronize with DAT
522CT22-VT074-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT075-1	Video modified to synchronize with DAT
522CT22-VT076-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT077-1	Video modified to synchronize with DAT
522CT22-VT078-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT079-1	Video modified to synchronize with DAT
522CT22-VT080-2	Observation timestamp shifted to synchronize with DAT
522CT22-VT081-1	Video modified to synchronize with DAT
522CT22-VT082-1	Observation timestamp shifted to synchronize with DAT
522CT22-VT083-2	Video modified to synchronize with DAT
522CT22-VT084-3	Observation timestamp shifted to synchronize with DAT
522CT22-VT085-1	No modification made to timestep
522CT22-VT086-1	No modification made to timestep
522CT22-VT087-3	No modification made to timestep
522CT22-VT088-2	Video modified to synchronize with DAT

Sample ID	Modification
522CT22-VT089-1	Video modified to synchronize with DAT
522CT22-VT090-3	Video modified to synchronize with DAT
522CT22-VT091-2	Video modified to synchronize with DAT
522CT22-VT092-4	Video modified to synchronize with DAT
522CT22-VT093-4	Video modified to synchronize with DAT
522CT22-VT094-3	Video modified to synchronize with DAT
522CT22-VT095-1	Video modified to synchronize with DAT
522CT22-VT096-5	Video modified to synchronize with DAT
522CT22-VT097-1	No modification made to timestep
522CT22-VT098-3	No modification made to timestep
522CT22-VT100-2	No modification made to timestep
522CT22-VT101-2	No modification made to timestep
522CT22-VT102-1	No modification made to timestep
522CT22-VT104-1	No modification made to timestep
522CT22-VT105-4	No modification made to timestep
522CT22-VT106-1	No modification made to timestep
522CT22-VT107-1	No modification made to timestep
522CT22-VT108-1	No modification made to timestep
522CT22-VT109-1	No modification made to timestep
522CT22-VT110-1	No modification made to timestep
522CT22-VT111-1	No modification made to timestep
522CT22-VT112-1	No modification made to timestep
522CT22-VT113-1	No modification made to timestep
522CT22-VT114-1	No modification made to timestep
522CT22-VT115-1	No modification made to timestep
522CT22-VT116-1	No modification made to timestep
522CT22-VT117-1	No modification made to timestep
522CT22-VT118-1	No modification made to timestep
522LA22-VT001-1	Video modified to synchronize with DAT
522LA22-VT002-3	Video modified to synchronize with DAT
522LA22-VT003-2	Video modified to synchronize with DAT
522LA22-VT004-3	Video modified to synchronize with DAT
522LA22-VT005-3	Video modified to synchronize with DAT
522LA22-VT006-1	Video modified to synchronize with DAT
522LA22-VT007-3	Video modified to synchronize with DAT
522LA22-VT008-1	Video modified to synchronize with DAT
522LA22-VT009-1	Video modified to synchronize with DAT
522LA22-VT010-1	Video modified to synchronize with DAT
522LA22-VT011-1	Video modified to synchronize with DAT
522LA22-VT012-2	Video modified to synchronize with DAT
522LA22-VT013-1	Video modified to synchronize with DAT
522LA22-VT014-3	Video modified to synchronize with DAT
522LA22-VT015-2	Video modified to synchronize with DAT
522LA22-VT016-2	Video modified to synchronize with DAT

Sample ID	Modification
522LA22-VT017-6	Video modified to synchronize with DAT
522LA22-VT018-2	Video modified to synchronize with DAT
522LA22-VT019-1	Video modified to synchronize with DAT
522MA22-VT001-1	No modification made to timestep
522MA22-VT002-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT003-1	No modification made to timestep
522MA22-VT004-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT005-2	Video modified to synchronize with DAT
522MA22-VT006-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT007-1	No modification made to timestep
522MA22-VT008-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT009-2	Video modified to synchronize with DAT
522MA22-VT010-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT011-03	Video modified to synchronize with DAT
522MA22-VT012-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT013-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT014-2	No modification made to timestep
522MA22-VT015-3	Observation timestamp shifted to synchronize with DAT
522MA22-VT016-1	No modification made to timestep
522MA22-VT017-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT018-1	No modification made to timestep
522MA22-VT019-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT020-3	Video modified to synchronize with DAT
522MA22-VT021-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT022alt-2	Video modified to synchronize with DAT
522MA22-VT023-3	Observation timestamp shifted to synchronize with DAT
522MA22-VT024-3	No modification made to timestep
522MA22-VT025-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT026-2	No modification made to timestep
522MA22-VT027-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT028-1	No modification made to timestep
522MA22-VT029-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT030-2	Video modified to synchronize with DAT
522MA22-VT031-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT032-1	Video modified to synchronize with DAT
522MA22-VT033-4	Observation timestamp shifted to synchronize with DAT
522MA22-VT034-1	Video modified to synchronize with DAT
522MA22-VT035-3	Observation timestamp shifted to synchronize with DAT
522MA22-VT036-3	Video modified to synchronize with DAT
522MA22-VT037-5	Observation timestamp shifted to synchronize with DAT
522MA22-VT038-1	Video modified to synchronize with DAT
522MA22-VT039-3	Observation timestamp shifted to synchronize with DAT
522MA22-VT040-1	Video modified to synchronize with DAT
522MA22-VT041-ALT1	Observation timestamp shifted to synchronize with DAT

Sample ID	Modification
522MA22-VT042-1	Video modified to synchronize with DAT
522MA22-VT043-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT044-1	Video modified to synchronize with DAT
522MA22-VT045-2	Observation timestamp shifted to synchronize with DAT
522MA22-VT046-1	Video modified to synchronize with DAT
522MA22-VT047-3	No modification made to timestep
522MA22-VT048-1	Video modified to synchronize with DAT
522MA22-VT049-1	Video modified to synchronize with DAT
522MA22-VT050-1	Video modified to synchronize with DAT
522MA22-VT051-1	Video modified to synchronize with DAT
522MA22-VT052-1	Video modified to synchronize with DAT
522MA22-VT053-1	Video modified to synchronize with DAT
522MA22-VT054-1	Video modified to synchronize with DAT
522MA22-VT055-1	Video modified to synchronize with DAT
522MA22-VT056-1	Video modified to synchronize with DAT
522MA22-VT057-5	Video modified to synchronize with DAT
522MA22-VT058-1	Observation timestamp shifted to synchronize with DAT
522MA22-VT059-1	Video modified to synchronize with DAT

Appendix Q: List of Data Submitted

Layer Name	Coordinate System
ROV Track Lines, TDI	WGS84 lat/lon
ROV Track Lines, Shallow CT	UTM Zone19N meters
DAT Points, TDI	WGS84 lat/lon
DAT Point, Shallow CT	UTM Zone19N meters
Substrate Lines, TDI	WGS84 lat/lon
Substrate Lines, Shallow CT	UTM Zone19N meters
Visual Quality Lines, TDI	WGS84 lat/lon
Visual Quality Lines, Shallow CT	UTM Zone19N meters
Substrate Overlay Lines, TDI	WGS84 lat/lon
Substrate Overlay Lines, Shallow CT	UTM Zone19N meters
Benthic Feature Points, TDI	WGS84 lat/lon
Benthic Feature Points, Shallow CT	UTM Zone19N meters
Flora Points, TDI	WGS84 lat/lon
Flora Points, Shallow CT	UTM Zone19N meters
Fauna Points, TDI	WGS84 lat/lon
Fauna Points, Shallow CT	UTM Zone19N meters
30 Second DAT Points, TDI	WGS84 lat/lon
30 Second DAT Points, Shallow CT	UTM Zone19N meters
30 Second DAT Points with Substrate, TDI	WGS84 lat/lon
30 Second DAT Points with Substrate, Shallow CT	UTM Zone19N meters

Note: Differences in coordinate systems reflect different source data provided by contractors