



Code: UKCAL-CWF-CON-EIA-RPT-00007-7B09

Volume 7B Proposed Development (Offshore) Appendices

Appendix 4-3 Habitat Assessment Report (Array Area)

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH38EX



Volume 7B Appendix 4-3 Habitat Assessment Report (Array Area)

Code	UKCAL-CWF-CON-EIA-RPT-00007-7B09
Revision	Issued
Date	18 October 2024

This document contains the following report: 'Caledonia OWF Phase 2 Array Area Habitat Assessment Report' as prepared by Gardline in July 2023. For the purpose of Consent Application, the document has been retitled to: 'Volume 7B, Appendix 4-3: Habitat Assessment Report (Array Area)', alongside the addition of a new front cover.



Survey Report for:
Caledonia Offshore Windfarm Limited

Project:
Caledonia OWF Phase 2 - Array Area

Description:
Habitat Assessment Report

Survey Date:
Survey: March 2023 to April 2023

Project Number:
54463

Report Status:
Rev1

REPORT AUTHORISATION AND DISTRIBUTION

Compilation Environmental [REDACTED]

Authorisation Checked [REDACTED]

Approved [REDACTED]

Revision	Date	Title	Description
0	07-Jul-2023	Draft	pdf
1	26-Jul-2023	Rev1	pdf

Distribution

Caledonia Offshore Wind Limited
Ocean Winds
5th Floor
Atria One
144 Morrison Street
Edinburgh
EH4 8EX

For attention of:

[REDACTED]

[REDACTED]

EXECUTIVE SUMMARY

During March and April 2023, Gardline conducted an integrated survey on behalf of Caledonia Offshore Windfarm Limited across the Caledonia Offshore Windfarm array area and associated offshore export cable route (ECR) located in the outer region of the Moray Firth. Operations included a habitat assessment and an environmental baseline survey undertaken onboard the motor vessel *Ocean Endeavour* between 03-Mar-2023 and 12-Jun-2023, with environmental operations for the array area taking place between 14-Apr-2023 and 22-Apr-2023. This report details the results of the habitat assessment for the array area, the ECR habitat assessment report is presented separately (Gardline, issue pendinga).

The aim of the environmental survey was data collection to support the design of the proposed offshore windfarm infrastructure within the array area. To support the placement and design of proposed offshore subsea facilities within the survey area a multi-discipline survey was required. The environmental objectives of the survey were to characterise the benthic sub-tidal environment that is present across the footprint of the array area, identify the occurrence and distribution of any habitats or species of conservation interest and characterise the grain type and levels of contaminant within the seabed sediments.

Within the array area, 42 stations were investigated. Stations ENV36 to ENV42 were camera only transects; focusing on the substrates consisting of potential Annex I habitats, whilst Stations ENV01 to ENV35 were co-located with sediment sampling. Imagery at Stations ENV01 to ENV35 were only acquired for the purpose of pre-clearance for the grab sampling. No sediment samples were acquired at Station ENV20 due to either low retention in the grab sample or pebbles becoming stuck in the grab's jaw leading to sample washout. All remaining stations were successfully investigated.

Faunal communities were typically sparse across the survey area, with 34% of images containing no visible fauna. Where observed, fauna was characterised by faunal turf and Animalia Tubes.

Ten individuals of Pennatuloidea were observed across two stations (ENV36 and ENV42), with densities ranging from 0.01 individuals m⁻² to 0.08 individuals m⁻², resulting in a SACFOR classification of 'rare' to 'occasional'. Further, sixteen burrows were present across Stations ENV39 and ENV42, ranging in diameter from 0.9cm and 5.2cm, resulting in a SACFOR classification of 'occasional' at Station ENV39 and 'rare' to 'frequent' at Station ENV42. This indicates that Station ENV42 shows some similarity to the OSPAR (2010b) 'sea pen and burrowing megafauna communities' habitat and the Scottish PMF (JNCC, 2012a) 'burrowed mud' habitat. Burrow inhabitants were not observed in any images that burrows were observed; therefore, burrows could not confidently be attributed to any of the classified 'megafauna' species within the 'sea pen and burrowing megafauna community' habitat classification.

A total of 37 pairs of bivalve siphons were identified in throughout the survey area. Due to the good quality of the images, 30 of these pairs were identifiable as *Arctica islandica* siphons which are on the OSPAR (2008a) list of threatened and/or declining species and habitats and is listed as a low or limited mobility species under Scotland's PMF (JNCC, 2012a). This species is commonly found within this area of the North Sea and their presence was expected. Individuals of *A. islandica* were also identified in grab samples at Stations ENV07, ENV15, ENV26 and ENV27. These individuals were measured and photographed before being returned to the sea.

Five individuals of *Pleuronectes platessa* were observed across three stations in the array area. This species is on the Scottish Biodiversity List (2020); however, it is listed as least concern on the IUCN Red List (2023).

Other than those mentioned above, there was no further evidence from seabed imagery or sediment sampling of any other habitats listed under Annex I of the Habitats Directive (1992); species or habitats selected as PMFs

(JNCC, 2012a); those listed on the Scottish Biodiversity List (2020); species or habitats on the OSPAR (2008a) list of threatened and/or declining species and habitats on the IUCN Global Red List (2023).

Mean particle diameter generally varied from 45 μm at Station ENV21 to 2881 μm at Station ENV13, with an average mean grain diameter of 439 μm ($\pm 613\text{SD}$). Generally, sand ($\geq 63\mu\text{m}$ and $< 2\text{mm}$) was the dominant fraction, accounting for between 49% and 97% of the sediment. Station ENV13 was an exception to this with gravel ($\geq 2\text{mm}$) being the dominant fraction accounting for 50% of the sediment, resulting in this station being classified as sandy gravel under the modified Folk classification (1954).

Based on the imagery analysis, Stations ENV36 to ENV40 and ENV42 were classified as MC521 (Faunal communities of Atlantic circalittoral sand) and Stations ENV37, ENV39 to ENV42 were classified as MC421 (Faunal communities of Atlantic circalittoral mixed sediment).

USE OF THIS REPORT

This report has been prepared with due care and diligence and with the skill reasonably expected of a reputable contractor experienced in the types of work carried out under the contract and as such the findings in this report are based on an interpretation of data which is a matter of opinion on which professionals may differ and unless clearly stated is not a recommendation of any course of action.

Gardline has prepared this report for the client identified on the front cover in fulfilment of its contractual obligations under the referenced contract and the only liabilities Gardline accept are those contained therein.

Please be aware that further distribution of this report, in whole or part, or the use of the data for a purpose not expressly stated within the contractual work scope is at the client's sole risk and Gardline recommends that this disclaimer be included in any such distribution.

LOCATION MAP

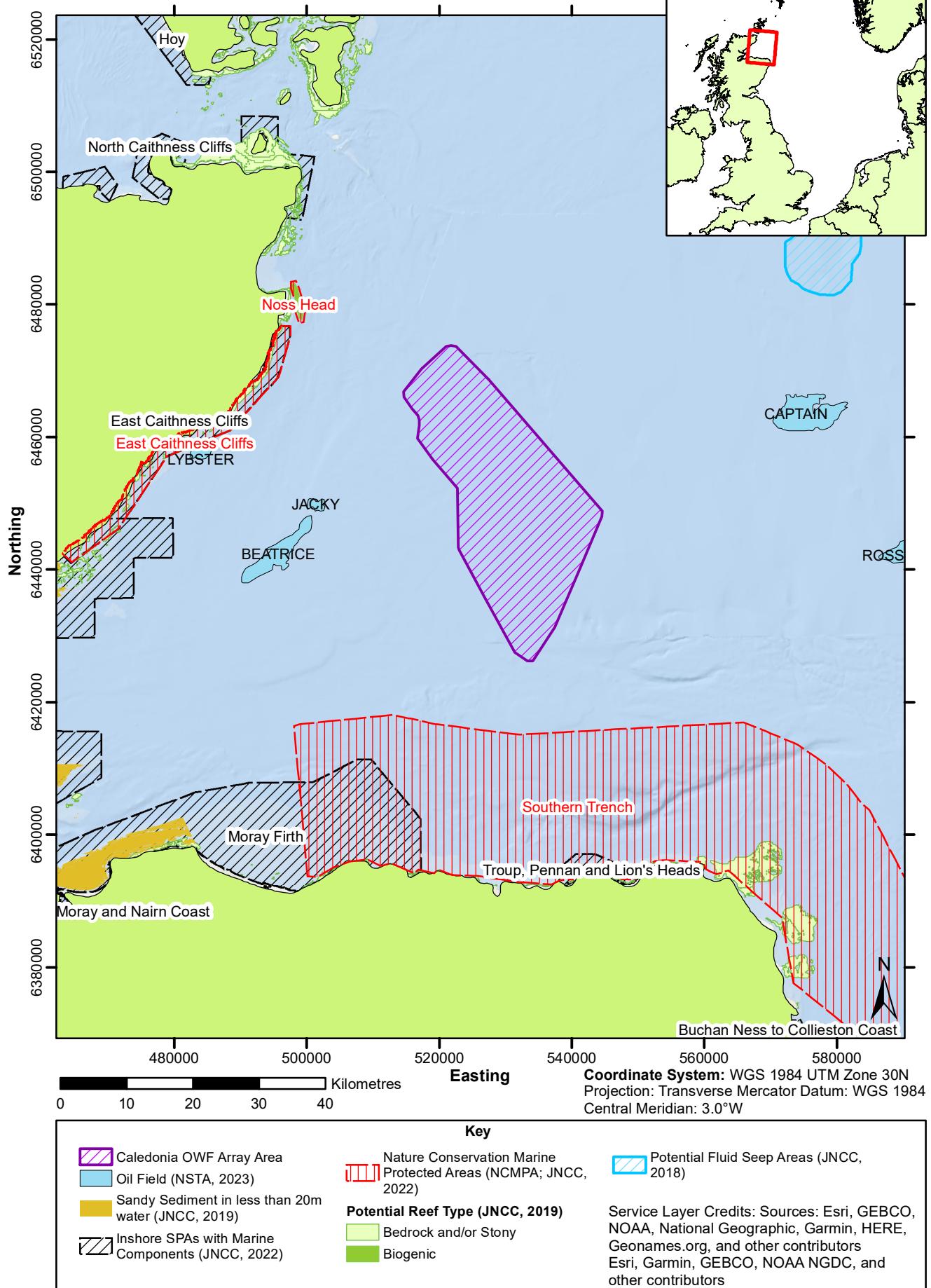


TABLE OF CONTENTS

REPORT AUTHORISATION AND DISTRIBUTION	II
EXECUTIVE SUMMARY	III
USE OF THIS REPORT	V
LOCATION MAP	VI
TABLE OF CONTENTS	VII
LIST OF FIGURES	VIII
LIST OF TABLES	VIII
GLOSSARY OF TERMS AND ABBREVIATIONS	VIII
1 PROJECT SUMMARY	1
1.1 Scope of Work	1
1.2 Environmental Survey Strategy	2
1.3 Background Habitat Information	8
2 RESULTS AND DISCUSSION	9
2.1 Seabed Imagery Observations	9
2.2 Sea Pen and Burrowing Megafauna Communities Assessment	9
2.3 Other Species of Conservation Interest	11
2.4 Quality Control Statistical Comparison	11
2.5 Sediment Sampling Observations	12
2.6 Particle Size Analysis	12
2.7 EUNIS Habitat Classification	14
3 BIBLIOGRAPHY	15
APPENDICES	
APPENDIX A SCOPE OF WORK	
APPENDIX B FIELD SAMPLING LOGS	
APPENDIX C DATA ACQUISITION AND PROCESSING	
APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS	
APPENDIX E FAUNAL OBSERVATION SUMMARY	
APPENDIX F FAUNAL CATALOGUE	
APPENDIX G IMAGERY PROFORMAS	
APPENDIX H PARTICLE SIZE ANALYSIS	

LIST OF FIGURES

Figure 1.1	Target and Actual Sampling Locations Stations: ENV01 to ENV31	5
Figure 1.2	Target and Actual Sampling Locations: Stations ENV32 to ENV42	6
Figure 1.3	Local Subsea Infrastructure Features	7
Figure 2.1	Examples of Siphons Observed	11

LIST OF TABLES

Table 1.1	Coordinates of the Proposed Windfarm Location	1
Table 1.2	Summary of Environmental Sampling Positions and Samples Acquired	4
Table 2.1	Total Sea Pens and Faunal Burrows Qualification	10
Table 2.2	Application of SACFOR abundance ranges to OSPAR (2010) 'sea pen and burrowing megafauna communities' habitat	10
Table 2.3	Sediment Characteristics	13
Table 2.4	EUNIS Habitat Classification	14

GLOSSARY OF TERMS AND ABBREVIATIONS

Benthic	Relating to the seabed	Mud	Sediment grains <63µm (includes Silt and Clay)
Biogenic	Produced by living organisms	NMBAQC	National Marine Biological Association Quality Control
BSI	British Standards Institute	NOAA	National Oceanic and Atmospheric Administration
CEFAS	Centre for Environment, Fisheries and Aquaculture Science	OSPAR	Oslo and Paris convention
Clay	Sediment grains <3.9µm in diameter	OWF	Offshore Wind Farm
CM	Central Meridian	PMF	Priority Marine Feature
ECR	Export Cable Route	PSA	Particle Size Analysis
EELS	Environmental Electronic Logging System	QC	Quality Control
EOT	End of Transect	SACs	Special Areas of Conservation
EIP	Epibiota Identification Protocol	SACFOR	JNCC (2013) density scale classification:
EUNIS	European Union Nature Identification System		Superabundant, abundant, common, frequent, occasional, and rare
Fines	Sediment grains <63µm in diameter (same as Mud)	Sand	Sediment grains ≥63µm and <2mm in diameter
GEL	Gardline Environmental Limited	SD	Standard Deviation
Gravel	Sediment grains ≥2mm in diameter	Silt	Sediment grains ≥3.9µm and <63µm in diameter
<i>indet.</i>	<i>Indeterminabilis</i> . The taxon is unidentifiable below a certain taxonomic rank.	SOT	Start of Transect
IUCN	International Union for Conservation of Nature	SOW	Scope of Work
JNCC	Joint Nature and Conservation Committee	<i>stet.</i>	<i>Stetit</i> . A taxon is identifiable to a specific taxonomic rank with certainty, but a decision is made to not proceed further.
LAT	Lowest Astronomical Tide	UKBAP	United Kingdom Biodiversity Action Plan
Macrofauna	Organisms that are normally larger than the mesh size of the sieve used, in this case 1mm	UKCS	United Kingdom Continental Shelf
MFA/B	Macrofauna subsample A/B	USBL	Ultra Short Base Line
MNCR	Marine Nature Conservation Review	UTM	Universal Transverse Mercator

1 PROJECT SUMMARY

1.1 Scope of Work

During March and April 2023, Gardline conducted an integrated survey on behalf of Caledonia Offshore Windfarm Limited at the Caledonia Offshore Windfarm (OWF) array area and associated export cable route (ECR) located in the outer region of the Moray Firth. The survey was undertaken on the motor vessel *Ocean Endeavour* between 03-Mar-2023 and 12-Jun-2023, with environmental operations in the array area taking place from 14-Apr-2023 to 22-Apr-2023. This report details the results of the habitat assessment for the array area, the ECR habitat assessment report is presented separately (Gardline, issue pendinga).

All positional information in this report is referenced to WGS 1984. All grid coordinates are projected using Universal Transverse Mercator (UTM) Projection, Grid Zone 30N, Central Meridian (CM) 3°W. Positional information of the array area is detailed in Table 1.1.

Table 1.1 Coordinates of the Proposed Windfarm Location

Proposed Windfarm Location Co-ordinates	WGS84		UTM Zone 30N	
	Latitude	Longitude	Easting	Northing
Caledonia Array Area	58° 16' 29.8200" N	002° 23' 26.7000" W	535 736	6 459 483
	58° 11' 00.9000" N	002° 14' 35.5800" W	544 503	6 449 399
	58° 10' 41.6460" N	002° 14' 28.4963" W	544 626	6 448 805
	58° 10' 15.6108" N	002° 14' 33.0000" W	544 561	6 447 999
	58° 06' 06.7356" N	002° 17' 58.8588" W	541 277	6 440 266
	58° 01' 17.1012" N	002° 21' 59.8824" W	537 415	6 431 270
	57° 58' 34.8096" N	002° 25' 25.1400" W	534 090	6 426 221
	57° 58' 33.7656" N	002° 26' 13.5024" W	533 296	6 426 182
	57° 59' 15.9144" N	002° 28' 09.3000" W	531 383	6 427 470
	58° 03' 48.5352" N	002° 32' 44.5776" W	526 805	6 435 868
	58° 07' 38.4600" N	002° 36' 35.5176" W	522 979	6 442 955
	58° 07' 51.0564" N	002° 36' 41.6412" W	522 876	6 443 344
	58° 12' 38.8260" N	002° 36' 48.6000" W	522 711	6 452 243
	58° 14' 59.9496" N	002° 40' 35.7024" W	518 983	6 456 588
	58° 16' 44.5944" N	002° 42' 55.7388" W	516 687	6 459 814
	58° 17' 47.4720" N	002° 42' 36.3636" W	516 994	6 461 760
	58° 18' 13.0788" N	002° 42' 36.3636" W	516 990	6 462 552
	58° 18' 35.0316" N	002° 42' 49.3164" W	516 777	6 463 230
	58° 19' 07.5468" N	002° 43' 42.1176" W	515 913	6 464 232
	58° 20' 06.7164" N	002° 45' 00.2988" W	514 634	6 466 057
	58° 20' 32.2908" N	002° 45' 00.9576" W	514 620	6 466 848
	58° 22' 23.2932" N	002° 42' 13.8600" W	517 323	6 470 292
	58° 24' 11.2896" N	002° 38' 26.6424" W	520 997	6 473 650
	58° 24' 15.4224" N	002° 37' 39.5436" W	521 761	6 473 782
	58° 24' 11.8224" N	002° 36' 52.2612" W	522 529	6 473 675
	58° 21' 29.8872" N	002° 31' 49.7388" W	527 475	6 468 698

As detailed in the scope of work (SOW), contained within Appendix A, the overall aim of the survey was data collection to support the design of the proposed offshore windfarm infrastructure within the array area and to continue works undertaken during the Caledonia Reconnaissance Geophysical survey in 2022. To support the placement and design of proposed offshore subsea facilities within the survey area a multi-discipline survey was required.

The environmental objectives of the survey were to:

- characterise the benthic sub-tidal environment that is present across the footprint of the array area.
- identify the occurrence and distribution of any habitats or species of conservation interest.
- characterise the grain type and levels of contaminant within the seabed sediments.

To meet the aims of the habitat assessment the presence of the following sensitive species and habitats were assessed for:

- habitats listed under Annex I of the Habitats Directive (1992), as implemented by the Conservation of Offshore Marine Habitats and Species Regulations (2019) and as endorsed by the Marine Environment Regulations (2018).
- species or habitats selected as priority marine features (PMFs) in Scottish offshore waters (NatureScot, 2020) under the Marine Environment Regulations (2018).
- species listed on the Scottish Biodiversity List (2020) given credence under the UK Post-2010 Biodiversity Framework (JNCC and Defra, 2012a).
- species or habitats on the OPSAR (2008a) list of threatened and/or declining species and habitats.
- species on the IUCN (2023) Global Red List of threatened species.

1.2 Environmental Survey Strategy

To enable clear and concise reporting the naming convention of the stations have been shortened by the removal of the 'AA_' station identifier and the underscore before the station number. These shortened names have been used throughout the report where possible, though the original full names have been retained in survey logs (Appendix B), image file names and on video overlays. The full and abbreviated station names are presented in Table 1.2, along with details of grab samples and seabed imagery, which may offset from the intended target.

A total of 42 stations were pre-selected by the client throughout the array area to meet the objectives of the SOW (Appendix A). All stations were successfully investigated using a digital stills camera system, with imagery acquired at Stations ENV1 to ENV35 utilised for grab sampling preclearing purposes only. Imagery at the remaining seven stations (ENV36 to ENV42) were analysed for the occurrence and distribution of any habitats or species of conservation interest.

Benthic sampling was undertaken at 35 stations (ENV1 to ENV35), with all stations successfully investigated with the exception of Station ENV20. No grab samples were acquired at Station ENV20 due to either low retention in the grab sample or pebbles becoming stuck in the grab's jaw leading to sample washout. Using the 0.1m² mini-Hamon grab two macrofaunal samples were acquired. These were sub-sampled for particle size analysis (PSA), prior to being sieved onboard through a 1mm mesh sieve to provide benthic macrofaunal samples, which were preserved in formaldehyde solution. One of the faunal samples (labelled MFA) was worked up in the laboratory, with the second sample (MFB) retained at Gardline's premises as a spare. Chemistry samples were acquired at ten stations, see Table 1.1, using the 0.1m² Day grab. One grab sample (designated CHEM) was sampled for analysis of hydrocarbons, metals, organotins, polychlorinated biphenyls, polybrominated diphenyl ethers, organochlorine pesticides and eDNA.

CTD profiles and water samples were also acquired at the ten stations, see Table 1.1. Two water samples, one near the seabed and one below the sea surface, were acquired at each station for eDNA analysis. Sampling and analytical methods are detailed in Appendix C.

Details of the station locations are summarised in Table 1.2. Target and actual sampling locations, the latter of which may be slightly offset from the former, are presented in Figure 1.1 and Figure 1.2 and in the Surveyor's log sheets in Appendix B. All infrastructure in the vicinity of the survey area is graphically displayed in Figure 1.3.

Table 1.2 Summary of Environmental Sampling Positions and Samples Acquired

Client ID	Station as Referred to in this Report	Rationale	Easting ¹	Northing ¹	Camera ²	Grab Samples Acquired			CTD Profile	Water eDNA
						MFA ³	MFB ³	CHEM		
AA_ENV_01	ENV01	To complete work from 2022 survey (Appendix A)	530 014	6 454 656	Y	1	1			
AA_ENV_02	ENV02		521 550	6 465 754	Y	1	1			
AA_ENV_03	ENV03		523 393	6 459 876	Y	1	1			
AA_ENV_04	ENV04		520 937	6 459 461	Y	1	1			
AA_ENV_05	ENV05		535 650	6 440 720	Y	1	1			
AA_ENV_06	ENV06		535 808	6 445 823	Y	1	1			
AA_ENV_07	ENV07		528 478	6 448 025	Y	1	1	1	Y	2
AA_ENV_08	ENV08		532 737	6 456 073	Y	1	1			
AA_ENV_09	ENV09		526 070	6 443 054	Y	1	1		1	Y
AA_ENV_10	ENV10		530 892	6 442 123	Y	1	1			
AA_ENV_11	ENV11		532 532	6 458 657	Y	1	1		1	Y
AA_ENV_12	ENV12		531 953	6 433 903	Y	1	1			
AA_ENV_13	ENV13		526 674	6 463 794	Y	1	1		1	Y
AA_ENV_14	ENV14		519 351	6 467 394	Y	1	1			
AA_ENV_15	ENV15		533 430	6 444 275	Y	1	1	1	Y	2
AA_ENV_16	ENV16		539 559	6 444 756	Y	1	1			
AA_ENV_17	ENV17		528 669	6 443 788	Y	1	1		1	Y
AA_ENV_18	ENV18		528 669	6 458 620	Y	1	1			
AA_ENV_19	ENV19		534 678	6 432 888	Y	1	1		1	Y
AA_ENV_20	ENV20		526 165	6 454 740	Y	0	0			
AA_ENV_21	ENV21		541 069	6 447 876	Y	1	1	1	Y	2
AA_ENV_22	ENV22		533 805	6 437 586	Y	1	1	1		
AA_ENV_23	ENV23		526 340	6 451 078	Y	1	1		1	Y
AA_ENV_24	ENV24		536 668	6 453 672	Y	1	1			
AA_ENV_25	ENV25		537 275	6 443 701	Y	1	1		1	Y
AA_ENV_26	ENV26		532 588	6 439 724	Y	1	1			
AA_ENV_27	ENV27		535 303	6 448 610	Y	1	1		1	Y
AA_ENV_28	ENV28		531 132	6 448 650	Y	1	1			
AA_ENV_29	ENV29		537 961	6 451 159	Y	1	1		1	Y
AA_ENV_30	ENV30		535 609	6 436 089	Y	1	1			
AA_ENV_31	ENV31		525 974	6 460 723	Y	1	1		1	Y
AA_ENV_32	ENV32		532 374	6 452 533	Y	1	1			
AA_ENV_33	ENV33		523 255	6 467 414	Y	1	1	1	Y	2
AA_ENV_34	ENV34		528 681	6 440 177	Y	1	1	1		
AA_ENV_35	ENV35		521 411	6 462 903	Y	1	1	1	Y	2
AA_ENV_36	ENV36		519 419	6 465 726	Y					
AA_ENV_37	ENV37		527 224	6 462 147	Y				1	Y
AA_ENV_38	ENV38		528 860	6 454 156	Y					
AA_ENV_39	ENV39		534 188	6 455 116	Y				1	Y
AA_ENV_40	ENV40		537 753	6 449 539	Y					
AA_ENV_41	ENV41		529 446	6 445 486	Y				1	Y
AA_ENV_42	ENV42		536 595	6 439 492	Y					

1 Environmental target locations: actual sampling positions for each individual grab sample are detailed in Appendix B

2 Imagery acquired at every station, only imagery from Stations ENV36 to ENV42 was analysed

3 PSA sub-sample removed prior to sieving through a 1mm mesh sieve. Analysis methods are as detailed in Appendix C.

Figure 1.1 Target and Actual Sampling Locations Stations: ENV01 to ENV31

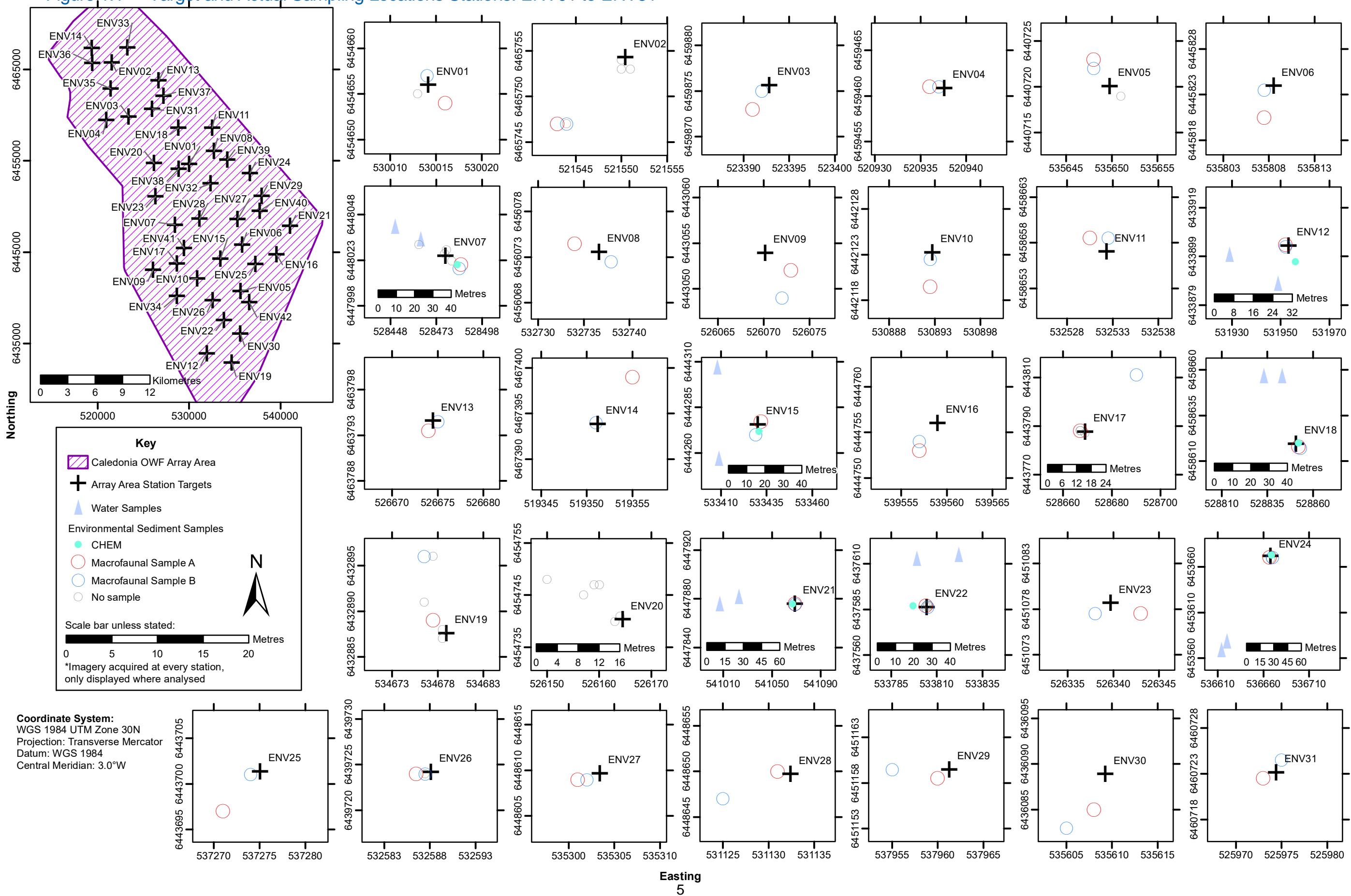


Figure 1.2 Target and Actual Sampling Locations: Stations ENV32 to ENV42

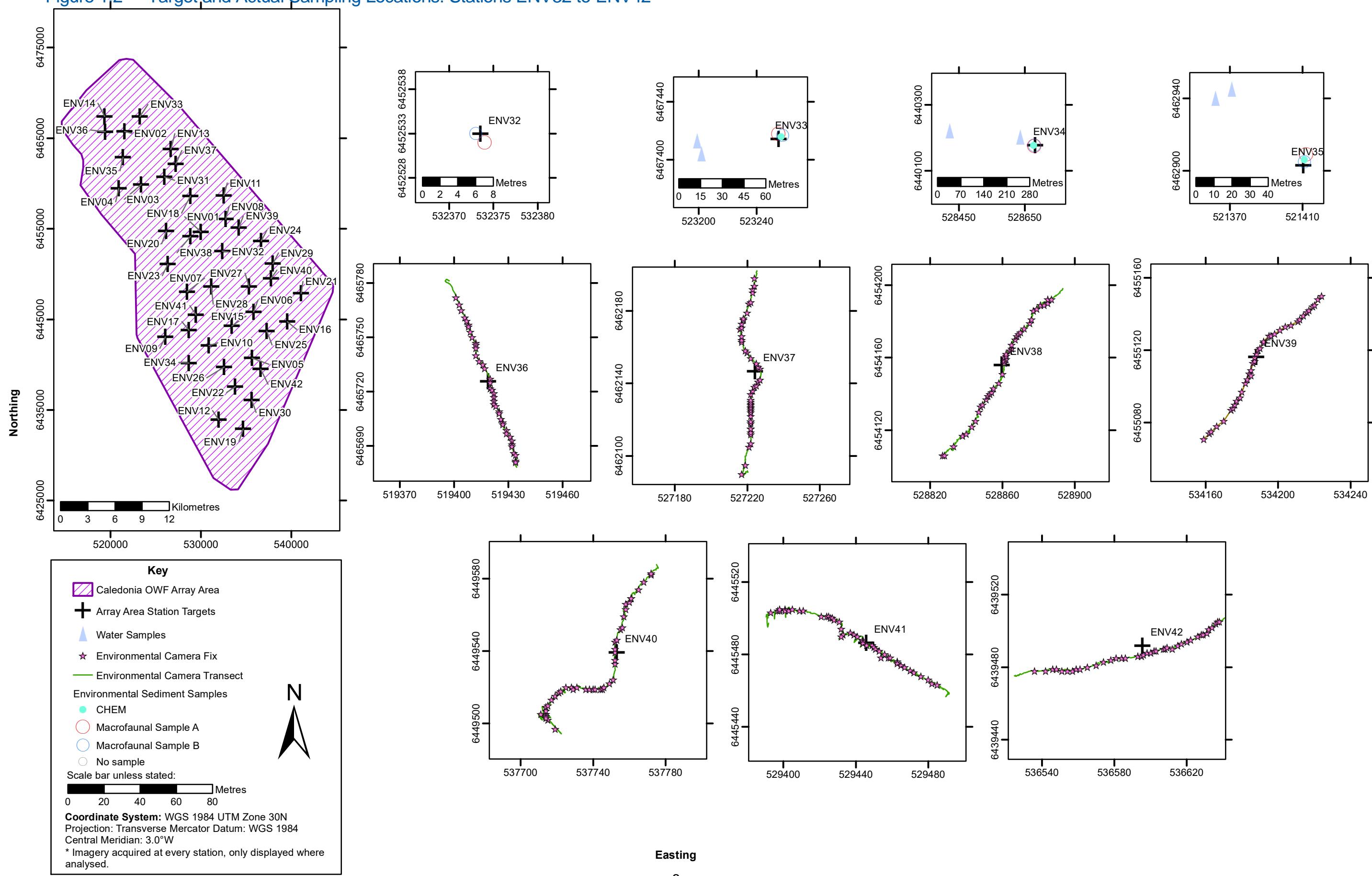
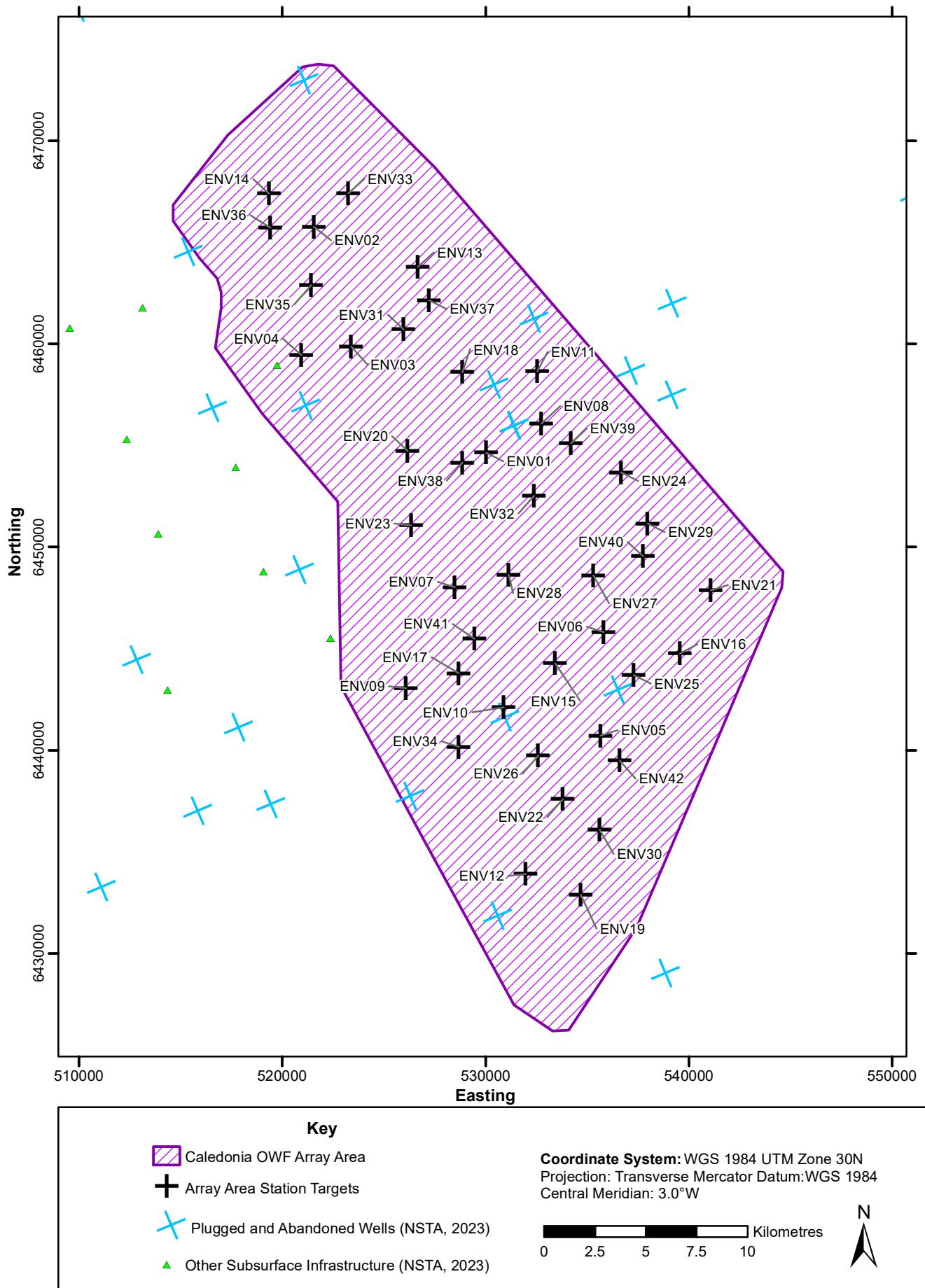


Figure 1.3 Local Subsea Infrastructure Features



1.3 Background Habitat Information

1.3.1 Overview

This section presents an overview of the habitats and faunal communities expected to occur within Scottish waters in the vicinity of the Caledonia Offshore windfarm area.

1.3.2 Sea Pen and Burrowing Megafauna Communities

A ‘sea pen and burrowing megafauna communities’ habitat is classified as a threatened and/or declining habitat (OSPAR, 2008a). It is defined by OSPAR (2010b) as plains of fine mud, extending over an area of at least 25m² and at water depths ranging from 15m to 200m or more. These areas are defined as being heavily bioturbated by burrowing megafauna including *Nephrops norvegicus*, *Calocaris macandreae* or *Callianassa subterranea*, with burrows and mounds typically forming a prominent feature of the sediment surface, and which may include conspicuous populations of sea pens (Pennatuloidea); typically, *Virgularia mirabilis* and *Pennatula phosphorea*. Despite its classification as a threatened and/or declining habitat (OSPAR, 2008a); this habitat is widespread throughout the central North Sea, around the south and west coasts of Norway and around the north of the British Isles (OSPAR, 2010b).

2 RESULTS AND DISCUSSION

2.1 Seabed Imagery Observations

A selection of seabed photographs, together with descriptions and positions, are presented in Appendix D, whilst a summary of all the taxa identified from each station is presented in Appendix E. Seabed sediments from imagery were recorded as generally sand with occasional gravel and shell material. Images were classified with an image quality as per the EIP (2022), with all but one image classified as either satisfactory or excellent.

Visible fauna identified to the lowest taxonomic level with confidence include:

- Annelida (*Hyalinoecia tubicola*, *Lanice conchilega*, Serpulidae)
- Arthropoda (Cirripedia, Decapoda, Paguroidea)
- Bryozoa (*Alcyonidium diaphanum*, Flustridae)
- Chordata (Actinopterygii, *Aspitrigla cuculus*, *Callionymus lyra*, *Limanda limanda*, *Pleuronectes platessa*, Pleuronectiformes)
- Cnidaria (*Alcyonium digitatum*, Actinaria, *Calliactis palliata*, *Nemertesia antennina*, Pennatuloidea, Sertulariidae)
- Echinodermata (*Asterias rubens*, Holothuroidea, *Luidia ciliaris*)
- Foraminifera
- Mollusca (*Aporrhais pespelecani*, *Arctica islandica*, Bivalvia, Scaphopoda)
- Porifera.

Additionally indeterminate Animalia tubes, bivalve siphons and faunal turf were observed across the stations along with bioturbation in the form of faunal tracks and burrows. The distribution of faunal observations, including SACFOR results is summarised in Appendix E. An example of each taxa identified along with a description is presented in Appendix F.

Fauna communities across the survey area was generally sparse, with 34% (n=101) of images containing no visible fauna. Where taxa were observed, they were categorised using SACFOR classifications based on average densities within each image. The average densities of all observed taxa were calculated for each image using the mean swathe width of the image. Minimum and maximum size classes for each species were obtained through a literature review. Of all taxa observed in the imagery, faunal turf was the most common feature and was identified in 91 images, generally accounting for <2% of the images. Indeterminate Animalia tubes were also abundant, with 138 individuals identified in 80 of the images. The result of this assessment for all species are summarised in Appendix E.

2.2 Sea Pen and Burrowing Megafauna Communities Assessment

Seabed imagery revealed that sea pens were present at two of the seven stations with one sea pen taxa (Pennatuloidea) being identified. A detailed assessment of the ‘sea pen and burrowing megafauna communities’ habitat as identified by OSPAR (2010b) was conducted, referring to the MNCR SACFOR abundance scale (JNCC, 2013). Densities of sea pens were categorised using SACFOR classifications to assess the similarity of the locations to a ‘sea pen and burrowing megafauna communities’ habitat. The average sea pen densities were calculated for each station using the total area covered by the seabed imagery (average swathe width x camera transect length). The results of this assessment are summarised in Table 2.1.

A single individual of Pennatuloidea was observed at Station ENV36, whilst a further nine individuals were observed at Station ENV42. Station densities of Pennatuloidea ranged from 0.01 individuals m⁻² to 0.08 individuals m⁻², with individuals measuring between 1.3cm and 9.9cm. In accordance with SACFOR,

Pennatuloidea at Station ENV36 were classified as 'rare' whilst at Station ENV42 Pennatuloidea were classified as 'rare' to 'occasional'.

A single burrow was observed at Station ENV39, while a further 15 burrows recorded at Station ENV42. Burrow station densities ranged from 0.01 burrows m⁻² at Station ENV39 to 0.13 burrows m⁻² at Station ENV42. Burrows across the surveyed area were estimated to be between 0.9cm and 5.2cm in diameter. Burrows at Station ENV39 were classified as 'occasional' whereas burrows at Station ENV42 were classified as 'rare' to 'frequent'.

The JNCC (2014b) clarification report states that to be considered a 'sea pen and burrowing megafauna community' habitat, densities of burrows and/or mounds, together with sea pens if present should be classified as 'frequent' or above on the SACFOR scale. Burrows were classified within a range that encompassed 'frequent' at Station ENV42 suggesting that this station shows minimal similarity to the 'sea pen and burrowing megafauna community' habitat. Further, burrow inhabitants were not observed in any images therefore burrows cannot confidently be attributed to any of the classified 'megafauna' species within the 'sea pen and burrowing megafauna community' habitat classification as defined by OPSAR (2010b).

Table 2.1 Total Sea Pens and Faunal Burrows Qualification

Station	Total Number of Images assessed	Transect Length (m)	Estimated area Investigated (m ²) ¹	Pennatuloidea			Burrows			SACFOR Range ³
				Number of Individuals	Density (Indiv. M ⁻²)	Size Range (cm)	SACFOR Range ³	Numbr of Individuals	Density (Indiv. M ⁻²)	
ENV36	40	119	95	1	0.01	1.3	R	0		
ENV37	47	147	121	0				0		
ENV38	41	183	149	0				0		
ENV39	39	109	77	0				1	0.01	4.3
ENV40	44	273	257	0				0		
ENV41	45	286	295	0				0		
ENV42	40	142	115	9	0.08	2.8 to 9.9	R to O	15	0.13	0.9 to 5.2
Total	296	1259	1110	10	0.08	1.3 to 9.9	O	16	0.14	0.9 to 5.2
										F

1 Estimated area was calculated using mean swathe width and camera transect length.

2 SACFOR classification scale S=Superabundant, A=Abundant, C=Common, F=Frequent, O=Occasional and R=Rare
 Classification based on minimum and maximum estimated size of sea pen and burrows and the respective mean density at each station and transect

Table 2.2 Application of SACFOR abundance ranges to OSPAR (2010) 'sea pen and burrowing megafauna communities' habitat

Ranges			
< Frequent No similarity	≤Frequent Some similarity	< and > Frequent Some Similarity	≥Frequent Greatest Similarity

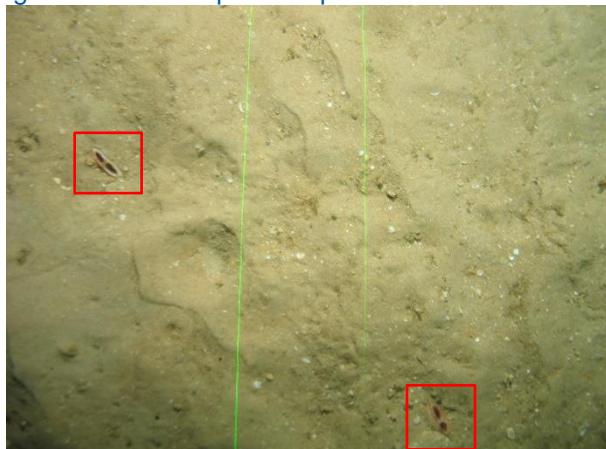
2.3 Other Species of Conservation Interest

In accordance with the EIP protocol (The Big Picture Group, 2022), all siphons observed were to be tagged as 'Mollusca – Bivalvia siphons', but due to the good quality of the images it was possible to identify *A. islandica* siphons due to physiological characteristics specific to *A. islandica*. Examples of both *A. islandica* and other unidentifiable Bivalvia siphons can be found in Figure 2.1. A total of 30 pairs of *A. islandica* siphons were observed across Stations ENV39, ENV40 and ENV42. This species is on the OSPAR (2008a) list of threatened and/or declining species and habitats and is listed as a species of low or limited mobility under Scotland's PMF (JNCC, 2012c). However, this species is commonly found within this area of the North Sea. A further 7 pairs on bivalve siphons were observed across the survey area.

Five individuals of the flatfish *Pleuronectes platessa* were observed across Stations ENV36, ENV37 and ENV38. This species is listed on the Scottish Biodiversity List (2020); however, it is listed as least concern on the IUCN Red List (2023).

Other than those mentioned above, there was no further evidence from the seabed imagery or video of any habitats listed under Annex I of the Habitats Directive (1992), any other species selected as PMFs (JNCC, 2012a). Nor any species listed on the Scottish Biodiversity List (2020), species or habitats on the OSPAR (2008a) list of threatened and/or declining habitats or species on the IUCN Red List (2023).

Figure 2.1 Examples of Siphons Observed



Arctica islandica siphons
Station: ENV39 Fix: 2884



Bivalvia siphons
Station: ENV42 Fix: 3946

2.4 Quality Control Statistical Comparison

The initial analysis and internally quality control (QC'd) data were loaded into PRIMER v7 in order to assess the quality of the work conducted, as per the SOW (Appendix A). A RELATE test was conducted on the two datasets to assess the level of similarity in the identification of species within the seabed imagery. The results of the RELATE test indicated that the initial analysis and the internally QC'd datasets were 91% similar and therefore classified as 'Good'. Differences observed between the datasets were attributed to the level of confidence at which taxa were identified.

2.5 Sediment Sampling Observations

Seabed sampling was conducted at 35 stations across the array area using the 0.1m² mini-Hamon grab. Environmental deck and positioning logs are presented in Appendix B, while a selection of photographs of the recovered samples, together with sample descriptions and positions are presented in Appendix D.

Across the 35 sampling stations, 78 single grab samples were retained for 108 deployments, with all retained samples taken within 35m of their target location. On average, retained samples were acquired 3.5m ($\pm 4.1\text{SD}$) from their target location. No samples were acquired at Station ENV20 due to either low retention in the grab sample or pebbles becoming stuck in the grab's jaw leading to sample washout.

Seabed sampling supported the initial interpretation of the geophysical data and the seabed imagery findings, confirming that the seabed comprised primarily of sand with varying amounts of gravel, shell fragments and fine sediment. Visible fauna observed within the retrieved grabs included:

- Annelida (Polychaeta, Serpulidae)
- Arthropoda (Brachyura)
- Cnidaria (Hydrozoa)
- Echinodermata (Asteroidea, Ophiuroidea, Spatangoidea)
- Mollusca (*A. islandica*, Bivalvia, Scaphopoda).

Individuals of *A. islandica* were identified in grab samples at Stations ENV07, ENV15, ENV26 and ENV27. These individuals were measured and photographed before being returned to the sea. As described in Section 2.3, this species is on the OSPAR (2008a) list of threatened and/or declining species and habitats and is listed as a low or limited mobility species under Scotland's PMF (JNCC, 2012a).

2.6 Particle Size Analysis

The results of the PSA, determined by wet and dry sieving, are summarised in Table 2.3. Full results including histograms illustrating size distribution at each of the 35 stations where sediment sampling was completed are presented in Appendix H.

Mean particle diameter generally varied from 45μm at Station ENV21 to 2881μm at Station ENV13, with an average mean grain diameter of 439μm ($\pm 613\text{SD}$). Generally, sand ($\geq 63\mu\text{m}$ and $< 2\text{mm}$) was the dominant fraction, accounting for between 49% and 97% of the sediment. Station ENV13 was an exception to this with gravel ($\geq 2\text{mm}$) being the dominant fraction accounting for 50% of the sediment, resulting in this station being classified as sandy gravel under the modified Folk classification (1954).

Under the modified Folk classification (1954), stations ranged from muddy sand to sandy gravel with these classifications confirmed by the relative proportions of fines ($< 63\mu\text{m}$; silt and clay), sand ($\geq 63\mu\text{m}$ to $< 2\text{mm}$) and gravel ($\geq 2\text{mm}$). Sediment across the survey areas ranged from very poorly sorted to moderately sorted particle size distribution according to Folk and Ward (1957).

Table 2.3 Sediment Characteristics

Station	Mean Diameter (μm)	Mean Diameter (phi)	Fines %	Sand %	Gravel %	Wentworth Classification of Median Grain Size	Sorting ¹	Modified Folk Classification	
ENV01	328	1.6	4	94	2	Medium sand	Moderate	Slightly gravelly sand	
ENV02	241	2.1	8	89	3	Fine sand	Poor	Slightly gravelly sand	
ENV03	306	1.7	2	97	1	Medium sand	Moderate	Slightly gravelly sand	
ENV04	800	0.3	3	67	30	Coarse sand	Very poor	Gravelly sand	
ENV05	160	2.6	14	86	0	Fine sand	Poor	Muddy sand	
ENV06	208	2.3	9	90	0	Fine sand	Poor	Sand	
ENV07	234	2.1	6	86	9	Fine sand	Poor	Gravelly sand	
ENV08	324	1.6	2	94	4	Medium sand	Poor	Slightly gravelly sand	
ENV09	197	2.3	7	91	2	Fine sand	Poor	Slightly gravelly sand	
ENV10	763	0.4	3	86	11	Coarse sand	Poor	Gravelly sand	
ENV11	358	1.5	2	97	1	Medium sand	Moderate	Sand	
ENV12	106	3.2	18	82	0	Very fine sand	Poor	Muddy sand	
ENV13	2881	-1.5	1	49	50	Granule	Very poor	Sandy gravel	
ENV14	357	1.5	5	90	5	Medium sand	Poor	Slightly gravelly sand	
ENV15	157	2.7	11	88	1	Fine sand	Poor	Slightly gravelly muddy sand	
ENV16	125	3.0	21	78	1	Very fine sand	Poor	Muddy sand	
ENV17	2501	-1.3	1	60	39	Granule	Very poor	Sandy gravel	
ENV18	257	2.0	4	95	1	Medium sand	Moderate	Slightly gravelly sand	
ENV19	182	2.5	14	86	0	Fine sand	Poor	Muddy sand	
ENV21	45	4.5	42	58	0	Coarse silt	Very poor	Muddy sand	
ENV22	1057	-0.1	9	68	24	Very coarse sand	Very poor	Gravelly muddy sand	
ENV23	318	1.7	3	94	3	Medium sand	Poor	Slightly gravelly sand	
ENV24	197	2.3	9	91	0	Fine sand	Poor	Sand	
ENV25	229	2.1	16	77	6	Fine sand	Very poor	Gravelly muddy sand	
ENV26	120	3.1	16	84	0	Very fine sand	Poor	Muddy sand	
ENV27	325	1.6	5	84	11	Medium sand	Poor	Gravelly sand	
ENV28	223	2.2	5	91	3	Fine sand	Moderate	Slightly gravelly sand	
ENV29	190	2.4	8	91	1	Fine sand	Poor	Sand	
ENV30	85	3.6	22	78	0	Very fine sand	Poor	Muddy sand	
ENV31	683	0.6	4	85	12	Coarse sand	Poor	Gravelly sand	
ENV32	230	2.1	6	94	1	Fine sand	Moderate	Sand	
ENV33	309	1.7	4	95	1	Medium sand	Moderate	Sand	
ENV34	124	3.0	14	85	0	Very fine sand	Poor	Muddy sand	
ENV35	305	1.7	2	97	1	Medium sand	Moderate	Sand	
This Study	Minimum	45	-1.5	1	49	0	Coarse silt to Granule	Moderate to very poor	Muddy sand to sandy gravel
	Maximum	2881	4.5	42	97	50			
	Mean	439	1.8	9	85	7			
	\pm SD	613	1.2	8	12	12			

Sediments were not treated to remove carbonates prior to particle size analyses.

1 Sorting according to Folk and Ward (1957)

2.7 EUNIS Habitat Classification

This section details the results of the EUNIS classification for the seven camera only stations, full EUNIS analysis based on geophysical, depth PSA and seabed imagery, will be completed for all stations in the environmental baseline survey report (Gardline, issue pendingb). The EUNIS classification hierarchy to biotopes (Level 4) were mainly based on geophysical, depth, and seabed imagery are summarised in Table 2.4.

All habitats observed were classified to the EUNIS level one marine benthic habitats (EUNIS habitats type code M).

Where visible fauna was observed on sandy soft substrate, Stations ENV36 to ENV40 and ENV42 were classified as:

- MC5 – Circalittoral sand
- MC52 – Atlantic circalittoral sand
- MC521 – Faunal communities of Atlantic circalittoral sand.

Where visible fauna was observed on coarser sediments, Stations ENV37, ENV39 to ENV42 were classified as:

- MC4 – Circalittoral mixed sediment
- MC42 – Atlantic circalittoral mixed sediment
- MC421 – Faunal communities of Atlantic circalittoral mixed sediment.

Table 2.4 EUNIS Habitat Classification

Station	Water Depth (m LAT)	EUNIS Habitat Classification	
		Type	Code
ENV36	56	Faunal communities of Atlantic circalittoral sand	MC521
ENV37	49	Faunal communities of Atlantic circalittoral sand Faunal communities of Atlantic circalittoral mixed sediment	MC521 MC421
ENV38	54	Faunal communities of Atlantic circalittoral sand	MC521
ENV39	59	Faunal communities of Atlantic circalittoral sand Faunal communities of Atlantic circalittoral mixed sediment	MC521 MC421
ENV40	57	Faunal communities of Atlantic circalittoral sand Faunal communities of Atlantic circalittoral mixed sediment	MC521 MC421
ENV41	51	Faunal communities of Atlantic circalittoral mixed sediment	MC421
ENV42	64	Faunal communities of Atlantic circalittoral sand Faunal communities of Atlantic circalittoral mixed sediment	MC521 MC421

3 BIBLIOGRAPHY

- Clarke, K.R. & Warwick, R.M., 2006.** *Change in marine communities: an approach to statistical analysis and interpretation*. 2nd ed. Plymouth, UK: PRIMER-E, Plymouth Marine Laboratory.
- Connor, D.W., Allen, J.H., Golding, N., Howell, K.L., Lieberknecht, L.M., Northern, K.O. & Reker, J.B., 2004.** *The Marine Habitat Classification for Britain and Ireland Version 04.05*. JNCC, Peterborough ISBN 1 861 07561 8 (internet version). [pdf] Available at: https://mhc.jncc.gov.uk/media/1027/04_05_introduction.pdf [Accessed 05 Nov 2021].
- Folk, R.L., 1954.** The distinction between grain size and mineral composition in sedimentary rock nomenclature. *Journal of Geology*, 62, pp.344-59.
- Folk, R.L. & Ward, W.C., 1957.** Brazos river bar: a study of the significance of grain size parameters. *Journal of Sedimentary Petrology*, 27, pp.3-26.
- Gardline, issue pendinga.** 54463.E05 Caledonia OWF Phase 2 - ECR Habitat Assessment Report. Draft. Habitat Assessment, Job No. 54463.E05. Great Yarmouth, UK: Gardline Limited.
- Gardline, issue pendingb.** 54463.E06 Caledonia OWF Phase 2 - Array Area Environmental Baseline Report. Draft. Environmental Baseline Report, Job No. 54463.E06. Great Yarmouth, UK.: Gardline Limited.
- Habitats Directive 92/43/EEC, 1992.** Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora. [Online] Available at: <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:31992L0043&qid=1401972918085&from=EN> [Accessed 05 June 2014].
- Horton, T., Marsh, L., Bett, B.J., Gates, A.R., Jones, D.O.B., Benoist, N.M.A., Pfeifer, S., Simon-Lledo, E., Durden, J.M., Vandepitte, L. & Appeltans, W., 2021.** Recommendations for the Standardisation of Open Taxonomic Nomenclature for Image-Based Identifications. *Frontiers in Marine Science*, 8.
- Howell, K.L., Davies, J.S., Allcock, A.L., Braga-Henriques, A., Buhl-Mortensen, P. & Carreiro-Silva, M., 2019.** A framework for the development of a global standardised marine taxon reference image database (SMarTaR-ID) to support image-based analyses. *PLoS ONE* 14(12): e0218904, 14(12), p.25. Available at: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0218904> [Accessed 08 January 2020].
- ICES, 2011.** *Protocols for Assessing the Status of Sea-pen and Burrowing Megafauna Communities*. [pdf] Available at: <http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2011/Special%20Requests/OSPAR%20Protocols%20for%20assessing%20the%20status.pdf> [Accessed 05 Nov 2021].
- IUCN, 2023.** *The IUCN Red List of Threatened Species*. [Online] (2022-2) Available at: <https://www.iucnredlist.org/> [Accessed 12 April 2023].
- JNCC and Defra, 2012a.** *UK Post-2010 Biodiversity Framework*. [Online] Produced on behalf of the Four Countries' Biodiversity Group. Available at: http://jncc.defra.gov.uk/pdf/UK_Post2010_Bio-Fwork.pdf [Accessed 05 June 2014].
- JNCC, 2012a.** *Identification of Priority Marine Features in Scottish offshore waters*. JNCC Report No. 462. Peterborough: JNCC.
- JNCC, 2012b.** *Officially submitted version SACs with marine components (Special Areas of Conservation). GIS Data*. [Online] JNCC, Peterborough, UK. Available at: http://jncc.defra.gov.uk/protectedsites/SACselection/gis_data/terms_conditions.asp [Accessed 27 Sept 2012].
- JNCC, 2012c.** *The UK Biodiversity Action Plan*. [Online] Available at: <http://jncc.defra.gov.uk/page-5155> [Accessed 18 December 2014].
- JNCC, 2013.** *SACFOR abundance scale used for both littoral and sublittoral taxa from 1990 onwards*. [pdf] Available at: <https://mhc.jncc.gov.uk/media/1009/sacfor.pdf> [Accessed 27 July 2021].
- JNCC, 2014b.** *JNCC clarifications on the habitat definitions of two habitat FOCI*. Peterborough, UK.

- Mason, C., 2016.** NMBAQC's Best Practice Guidance Particle Size Analysis (PSA) for Supporting Biological Analysis. [pdf] Available at: http://www.nmbaqcs.org/media/1255/psa-guidance_update18012016.pdf [Accessed 05 Nov 2021].
- NatureScot, 2020.** Priority Marine Features in Scotland's Seas. [Online] Available at: <https://www.nature.scot/doc/priority-marine-features-scotlands-seas-habitats> [Accessed 6th Feb 2023].
- NSTA, 2023.** North Sea Transition Authority Open Data. [Online] Available at: <https://www.nstaauthority.co.uk/data-centre/nsta-open-data/> [Accessed 09 Dec 2022].
- OSPAR, 2008a.** OSPAR List of Threatened and/or Declining Species and Habitats (OSPAR Reference Number: 2008-6). [PDF] Available at: <https://www.ospar.org/documents?d=32794> [Accessed 1st Feb 2023].
- OSPAR, 2010b.** Background Document for Seapen and Burrowing megafauna Communities. [pdf] Available at: <https://www.ospar.org/documents?v=7261> [Accessed 27 July 2021].
- Parry, M.E.V., 2019.** Guidance on Assigning Benthic Biotopes using EUNIS or the Marine Habitat Classification of Britain and Ireland (Revised 2019). JNCC Report No. 546. ISSN 0963-8091. Peterborough, UK: JNCC.
- Scottish Biodiversity List, 2020.** Scottish Biodiversity List. [Online] (Version 1.4 (2012)) Available at: <https://www.nature.scot/scottish-biodiversity-list> [Accessed 27 July 2021].
- The Big Picture Group, 2022.** NMBAQC - Epibiota Quality Assurance Fraemwork and documents. [Online] (2) Available at: <https://www.nmbaqcs.org/scheme-components/epibiota/epibiota-quality-assurance-framework-and-documents/> [Accessed April 2023].
- The Conservation of Habitats and Species (Amendment)(EU Exit) Regulations, 2019.** legislation.gov.uk. [Online] Available at: <https://www.legislation.gov.uk/ukdsi/2019/9780111176573> [Accessed 20 January 2021].
- The Marine Environment (Amendment) (EU Exit) Regulations 2018, 2018.** legislation.gov.uk. [pdf] Available at: https://www.legislation.gov.uk/uksi/2018/1399/pdfs/uksi_20181399_en.pdf [Accessed March 2023].
- Wakefield, W.W. & Genin, A., 1987.** The use of a Canadian (perspective) grid in deep-sea photography. Deep-Sea Research, 34(3), pp.469-78.
- Wentworth, C.K., 1922.** A scale of grade and class terms for clastic sediments. Journal of Geology, (30), pp.377-92.

APPENDICES

APPENDIX A SCOPE OF WORK

Appendix A is confidential and has been withdrawn
from this report.

APPENDIX B FIELD SAMPLING LOGS

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																			
Job No		Vessel						MV Ocean Endeavour											
Client		Vessel Reference Point (VRP)						COG											
Project Name		Deployment Location						Camera Deployment Node			x	6.7	y	21.94	z	2.93			
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon											
Geodetic Reference System		Datum	Ellipsoid			WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks			
14-Apr-2023	18:24:11	2413	AA_ENV_19			Camera	67	Easting	534626	Northing	6432915	534678	6432888	-53	28	60	118		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
14-Apr-2023		2414	AA_ENV_19			Camera												Lost connection with Environmental Electronic Logging System (EELS), Photo but no Fix taken	
14-Apr-2023		2415	AA_ENV_19			Camera												Lost connection with EELS, Photo but no Fix taken	
14-Apr-2023		2416	AA_ENV_19			Camera												Lost connection with EELS, Photo but no Fix taken	
14-Apr-2023	18:25:34	2417	AA_ENV_19			Camera	67	Easting	534638	Northing	6432911	534678	6432888	-40	24	47	120		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
14-Apr-2023	18:25:46	2418	AA_ENV_19			Camera	67	Easting	534641	Northing	6432910	534678	6432888	-37	23	44	121		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
14-Apr-2023	18:25:59	2419	AA_ENV_19			Camera	67	Easting	534641	Northing	6432907	534678	6432888	-38	19	42	117		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
14-Apr-2023	18:26:07	2420	AA_ENV_19			Camera	67	Easting	534644	Northing	6432910	534678	6432888	-34	22	41	123		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
14-Apr-2023	18:26:22	2421	AA_ENV_19			Camera	67	Easting	534647	Northing	6432910	534678	6432888	-31	22	39	126		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
14-Apr-2023	18:26:43	2422	AA_ENV_19			Camera	67	Easting	534650	Northing	6432910	534678	6432888	-29	22	36	128		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
14-Apr-2023	18:26:54	2423	AA_ENV_19			Camera	67	Easting	534651	Northing	6432910	534678	6432888	-28	22	35	129		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
14-Apr-2023	18:27:18	2424	AA_ENV_19			Camera	67	Easting	534653	Northing	6432910	534678	6432888	-26	22	34	131		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
14-Apr-2023	18:27:42	2425	AA_ENV_19			Camera	67	Easting	534653	Northing	6432908	534678	6432888	-25	20	32	129		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
14-Apr-2023	18:27:55	2426	AA_ENV_19			Camera	68	Easting	534654	Northing	6432904	534678	6432888	-24	16	29	124		(Raw Nav, Kongsberg 14208, img#14) (B)
14-Apr-2023	18:28:16	2426a	AA_ENV_19			Camera	67	Easting	534655	Northing	6432903	534678	6432888	-23	16	28	124	# Double Fix	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
14-Apr-2023	18:28:31	2427	AA_ENV_19			Camera	67	Easting	534660	Northing	6432904	534678	6432888	-18	16	24	132		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
14-Apr-2023	18:28:43	2428	AA_ENV_19			Camera	67	Easting	534663	Northing	6432903	534678	6432888	-16	15	22	135		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
14-Apr-2023	18:28:57	2429	AA_ENV_19			Camera	67	Easting	534665	Northing	6432903	534678	6432888	-14	16	21	139		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
14-Apr-2023	18:29:12	2430	AA_ENV_19			Camera	67	Easting	534666	Northing	6432903	534678	6432888	-12	16	20	142		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
14-Apr-2023	18:29:25	2431	AA_ENV_19			Camera	67	Easting	534668	Northing	6432902	534678	6432888	-11	14	18	144		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
14-Apr-2023	18:29:43	2432	AA_ENV_19			Camera	67	Easting	534671	Northing	6432900	534678	6432888	-8	12	14	147		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
14-Apr-2023	18:30:19	2433	AA_ENV_19			Camera	67	Easting	534669	Northing	6432893	534678	6432888	-10	5	11	119		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
14-Apr-2023	18:30:34	2434	AA_ENV_19			Camera	67	Easting	534674	Northing	6432893	534678	6432888	-4	6	7	142		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
14-Apr-2023	18:30:46	2435	AA_ENV_19			Camera	67	Easting	534675	Northing	6432891	534678	6432888	-3	4	5	141		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
14-Apr-2023	18:31:03	2436	AA_ENV_19			Camera	67	Easting	534677	Northing	6432890	534678	6432888	-1	2	3	153		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
14-Apr-2023	18:31:25	2437	AA_ENV_19			Camera	67	Easting	534679	Northing	6432888	534678	6432888	1	0	1	-100		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
14-Apr-2023	18:31:43	2438	AA_ENV_19			Camera	68	Easting	534679	Northing	6432884	534678	6432888	1	-4	4	-15		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
14-Apr-2023	18:32:14	2439	AA_ENV_19			Camera	67	Easting	534684	Northing	6432883	534678	6432888	6	-4	7	-52		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
14-Apr-2023	18:32:28	2440	AA_ENV_19			Camera	68	Easting	534686	Northing	6432883	534678	6432888	8	-5	9	-57		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
14-Apr-2023	18:32:53	2441	AA_ENV_19			Camera	68	Easting	534686	Northing	6432877	534678	6432888	7	-11	13	-33		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
14-Apr-2023	18:33:03	2442	AA_ENV_19			Camera	68	Easting	534688	Northing	6432877	534678	6432888	9	-11	14	-40		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
14-Apr-2023	18:33:16	2443	AA_ENV_19			Camera	68	Easting	534684	Northing	6432873	534678	6432888	5	-15	16	-19		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
14-Apr-2023	18:33:34	2444	AA_ENV_19			Camera	68	Easting	534689	Northing	6432872	534678	6432888	11	-16	19	-34		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN			Range
14-Apr-2023	18:33:44	2445	AA_ENV_19			Camera	68	534689	6432871	534678	6432888	11	-16	19	-33	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
14-Apr-2023	18:34:15	2446	AA_ENV_19			Camera	68	534691	6432865	534678	6432888	12	-22	25	-29	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
14-Apr-2023	18:34:22	2447	AA_ENV_19			Camera	68	534694	6432864	534678	6432888	16	-23	28	-34	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
14-Apr-2023	18:34:29	2448	AA_ENV_19			Camera	68	534694	6432863	534678	6432888	15	-25	29	-31	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
14-Apr-2023	18:34:46	2449	AA_ENV_19			Camera	68	534696	6432860	534678	6432888	18	-27	32	-33	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
14-Apr-2023	18:34:58	2450	AA_ENV_19			Camera	68	534698	6432858	534678	6432888	20	-29	35	-34	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
14-Apr-2023	18:35:12	2451	AA_ENV_19			Camera	68	534698	6432855	534678	6432888	19	-33	38	-31	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
14-Apr-2023	18:35:33	2452	AA_ENV_19			Camera	68	534702	6432855	534678	6432888	23	-33	40	-36	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
14-Apr-2023	18:35:47	2453	AA_ENV_19			Camera	68	534704	6432855	534678	6432888	26	-33	42	-38	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
14-Apr-2023	18:35:59	2454	AA_ENV_19			Camera	68	534706	6432854	534678	6432888	27	-34	44	-39	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
14-Apr-2023	18:36:15	2455	AA_ENV_19			Camera	68	534709	6432853	534678	6432888	31	-35	47	-41	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
14-Apr-2023	21:54:04	2456	AA_ENV_22			Camera	62	533800	6437638	533805	6437586	-4	52	52	175	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
14-Apr-2023	21:54:18	2457	AA_ENV_22			Camera	62	533801	6437637	533805	6437586	-4	51	51	176	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
14-Apr-2023	21:54:33	2458	AA_ENV_22			Camera	62	533799	6437637	533805	6437586	-6	51	51	173	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
14-Apr-2023	21:54:49	2459	AA_ENV_22			Camera	62	533797	6437633	533805	6437586	-8	47	48	171	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
14-Apr-2023	21:55:02	2460	AA_ENV_22			Camera	62	533800	6437635	533805	6437586	-5	49	49	174	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
14-Apr-2023	21:55:20	2461	AA_ENV_22			Camera	62	533798	6437633	533805	6437586	-6	47	47	173	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
14-Apr-2023	21:55:33	2462	AA_ENV_22			Camera	62	533800	6437632	533805	6437586	-5	46	46	174	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
14-Apr-2023	21:55:45	2463	AA_ENV_22			Camera	62	533801	6437630	533805	6437586	-3	44	44	176	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
14-Apr-2023	21:55:57	2464	AA_ENV_22			Camera	62	533801	6437628	533805	6437586	-3	42	42	175	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
14-Apr-2023	21:56:14	2465	AA_ENV_22			Camera	62	533802	6437625	533805	6437586	-2	39	39	177	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
14-Apr-2023	21:56:24	2466	AA_ENV_22			Camera	62	533804	6437624	533805	6437586	0	37	37	180	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
14-Apr-2023	21:56:34	2467	AA_ENV_22			Camera	62	533805	6437622	533805	6437586	0	36	36	-180	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
14-Apr-2023	21:56:50	2468	AA_ENV_22			Camera	62	533805	6437619	533805	6437586	1	33	33	-179	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
14-Apr-2023	21:57:04	2469	AA_ENV_22			Camera	62	533806	6437618	533805	6437586	1	32	32	-178	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
14-Apr-2023	21:57:23	2470	AA_ENV_22			Camera	62	533805	6437615	533805	6437586	0	29	29	-179	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
14-Apr-2023	21:57:42	2471	AA_ENV_22			Camera	62	533805	6437612	533805	6437586	1	26	26	-179	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
14-Apr-2023	21:58:05	2472	AA_ENV_22			Camera	62	533805	6437609	533805	6437586	0	23	23	-180	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
14-Apr-2023	21:58:14	2473	AA_ENV_22			Camera	62	533804	6437607	533805	6437586	-1	21	21	179	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
14-Apr-2023	21:58:21	2474	AA_ENV_22			Camera	62	533804	6437607	533805	6437586	0	20	20	179	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
14-Apr-2023	21:58:39	2475	AA_ENV_22			Camera	62	533802	6437604	533805	6437586	-2	18	18	172	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
14-Apr-2023	21:58:50	2476	AA_ENV_22			Camera	62	533802	6437603	533805	6437586	-2	17	17	173	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
14-Apr-2023	21:59:54	2477	AA_ENV_22			Camera	63	533800	6437594	533805	6437586	-5	8	9	148	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN			Range
14-Apr-2023	22:00:07	2478	AA_ENV_22			Camera	63	533800	6437593	533805	6437586	-5	6	8	142	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
14-Apr-2023	22:00:36	2479	AA_ENV_22			Camera	63	533800	6437589	533805	6437586	-5	3	6	124	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
14-Apr-2023	22:01:02	2480	AA_ENV_22			Camera	62	533804	6437584	533805	6437586	0	-2	2	4	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
14-Apr-2023	22:01:19	2481	AA_ENV_22			Camera	63	533807	6437582	533805	6437586	2	-4	5	-27	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
14-Apr-2023	22:01:40	2482	AA_ENV_22			Camera	62	533810	6437579	533805	6437586	6	-7	9	-39	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
14-Apr-2023	22:02:01	2483	AA_ENV_22			Camera	63	533815	6437577	533805	6437586	10	-9	14	-49	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
14-Apr-2023	22:02:31	2484	AA_ENV_22			Camera	63	533817	6437574	533805	6437586	13	-12	18	-47	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
14-Apr-2023	22:02:43	2485	AA_ENV_22			Camera	63	533818	6437575	533805	6437586	14	-11	18	-50	(Raw Nav, Kongsberg 14208, img#30) (B)
14-Apr-2023	22:02:59	2486	AA_ENV_22			Camera	63	533822	6437575	533805	6437586	17	-12	21	-56	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
14-Apr-2023	22:03:10	2487	AA_ENV_22			Camera	63	533823	6437574	533805	6437586	19	-12	22	-57	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
14-Apr-2023	22:03:21	2488	AA_ENV_22			Camera	63	533824	6437573	533805	6437586	19	-14	23	-55	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
14-Apr-2023	22:03:46	2489	AA_ENV_22			Camera	63	533828	6437572	533805	6437586	24	-14	28	-59	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
14-Apr-2023	22:04:05	2490	AA_ENV_22			Camera	63	533830	6437570	533805	6437586	26	-17	30	-57	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
14-Apr-2023	22:04:29	2491	AA_ENV_22			Camera	63	533833	6437570	533805	6437586	28	-17	33	-60	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
14-Apr-2023	22:04:48	2492	AA_ENV_22			Camera	63	533834	6437569	533805	6437586	30	-17	34	-60	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
14-Apr-2023	22:05:14	2493	AA_ENV_22			Camera	63	533838	6437567	533805	6437586	34	-19	39	-61	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
14-Apr-2023	22:05:31	2494	AA_ENV_22			Camera	63	533840	6437565	533805	6437586	35	-21	41	-59	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
14-Apr-2023	22:05:47	2495	AA_ENV_22			Camera	63	533842	6437564	533805	6437586	38	-22	44	-60	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
14-Apr-2023	22:06:01	2496	AA_ENV_22			Camera	63	533845	6437562	533805	6437586	40	-24	47	-59	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
14-Apr-2023	22:06:13	2497	AA_ENV_22			Camera	63	533846	6437562	533805	6437586	42	-24	48	-60	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
15-Apr-2023	02:49:46	2498	AA_ENV_34			Camera	65	528639	6440215	528681	6440177	-42	38	57	132	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	02:50:41	2499	AA_ENV_34			Camera	65	528641	6440214	528681	6440177	-41	37	55	132	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
15-Apr-2023	02:50:52	2500	AA_ENV_34			Camera	65	528641	6440213	528681	6440177	-40	36	54	132	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
15-Apr-2023	02:51:45	2501	AA_ENV_34			Camera	65	528642	6440205	528681	6440177	-39	27	48	125	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
15-Apr-2023	02:52:12	2502	AA_ENV_34			Camera	65	528647	6440205	528681	6440177	-34	28	44	129	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
15-Apr-2023	02:52:36	2503	AA_ENV_34			Camera	65	528647	6440203	528681	6440177	-34	25	42	127	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
15-Apr-2023	02:52:46	2504	AA_ENV_34			Camera	65	528648	6440202	528681	6440177	-33	25	41	127	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
15-Apr-2023	02:52:59	2505	AA_ENV_34			Camera	65	528648	6440198	528681	6440177	-33	20	39	121	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
15-Apr-2023	02:53:13	2506	AA_ENV_34			Camera	65	528652	6440199	528681	6440177	-29	22	36	127	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
15-Apr-2023	02:54:01	2507	AA_ENV_34			Camera	65	528655	6440194	528681	6440177	-26	17	31	123	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
15-Apr-2023	02:54:34	2508	AA_ENV_34			Camera	65	528660	6440191	528681	6440177	-21	13	25	122	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
15-Apr-2023	02:54:40	2509	AA_ENV_34			Camera	65	528660	6440191	528681	6440177	-21	13	25	122	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
15-Apr-2023	02:54:51	2510	AA_ENV_34			Camera	65	528662	6440189	528681	6440177	-20	12	23	121	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																			
Job No	54463						Vessel	MV Ocean Endeavour											
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG											
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7							
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94							
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT						
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks			
15-Apr-2023	02:54:57	2511	AA_ENV_34			Camera	65	Easting	528660	Northing	6440187	528681	dE	-21	10	23	115	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)	
15-Apr-2023	02:55:16	2512	AA_ENV_34			Camera	66	Easting	528664	Northing	6440187	528681	dE	-17	9	20	118	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)	
15-Apr-2023	02:55:44	2513	AA_ENV_34			Camera	65	Easting	528668	Northing	6440184	528681	dE	-13	7	15	118	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)	
15-Apr-2023	02:55:52	2514	AA_ENV_34			Camera	65	Easting	528668	Northing	6440183	528681	dE	-13	6	14	112	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)	
15-Apr-2023	02:56:05	2515	AA_ENV_34			Camera	65	Easting	528669	Northing	6440183	528681	dE	-12	6	13	116	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)	
15-Apr-2023	02:56:19	2516	AA_ENV_34			Camera	66	Easting	528671	Northing	6440180	528681	dE	-10	3	10	108	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)	
15-Apr-2023	02:56:25	2517	AA_ENV_34			Camera	66	Easting	528672	Northing	6440179	528681	dE	-9	2	9	103	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)	
15-Apr-2023	02:56:31	2518	AA_ENV_34			Camera	65	Easting	528673	Northing	6440178	528681	dE	-8	1	8	97	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)	
15-Apr-2023	02:56:38	2519	AA_ENV_34			Camera	66	Easting	528673	Northing	6440178	528681	dE	-8	1	8	97	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)	
15-Apr-2023	02:57:03	2520	AA_ENV_34			Camera	66	Easting	528676	Northing	6440177	528681	dE	-5	0	5	91	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)	
15-Apr-2023	02:57:13	2521	AA_ENV_34			Camera	65	Easting	528677	Northing	6440175	528681	dE	-5	-2	5	70	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)	
15-Apr-2023	02:57:39	2522	AA_ENV_34			Camera	66	Easting	528680	Northing	6440173	528681	dE	-1	-4	4	15	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)	
15-Apr-2023	02:57:56	2523	AA_ENV_34			Camera	66	Easting	528681	Northing	6440172	528681	dE	0	-5	5	1	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)	
15-Apr-2023	02:58:16	2524	AA_ENV_34			Camera	66	Easting	528684	Northing	6440171	528681	dE	3	-6	6	-25	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)	
15-Apr-2023	02:59:15	2525	AA_ENV_34			Camera	66	Easting	528690	Northing	6440167	528681	dE	9	-10	13	-41	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)	
15-Apr-2023	02:59:30	2526	AA_ENV_34			Camera	66	Easting	528691	Northing	6440165	528681	dE	10	-12	15	-39	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)	
15-Apr-2023	03:00:09	2527	AA_ENV_34			Camera	66	Easting	528695	Northing	6440162	528681	dE	14	-15	20	-41	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)	
15-Apr-2023	03:00:18	2528	AA_ENV_34			Camera	66	Easting	528695	Northing	6440160	528681	dE	14	-17	22	-38	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)	
15-Apr-2023	03:00:39	2529	AA_ENV_34			Camera	66	Easting	528696	Northing	6440158	528681	dE	15	-19	24	-38	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)	
15-Apr-2023	03:01:06	2530	AA_ENV_34			Camera	66	Easting	528699	Northing	6440156	528681	dE	18	-21	27	-40	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)	
15-Apr-2023	03:01:30	2531	AA_ENV_34			Camera	66	Easting	528700	Northing	6440154	528681	dE	19	-24	30	-39	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)	
15-Apr-2023	03:01:37	2532	AA_ENV_34			Camera	66	Easting	528700	Northing	6440152	528681	dE	19	-25	31	-38	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)	
15-Apr-2023	03:01:55	2533	AA_ENV_34			Camera	66	Easting	528703	Northing	6440151	528681	dE	21	-26	34	-39	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)	
15-Apr-2023	03:02:14	2534	AA_ENV_34			Camera	66	Easting	528704	Northing	6440148	528681	dE	23	-29	37	-38	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)	
15-Apr-2023	03:02:46	2535	AA_ENV_34			Camera	66	Easting	528706	Northing	6440145	528681	dE	25	-32	41	-38	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)	
15-Apr-2023	03:03:05	2536	AA_ENV_34			Camera	66	Easting	528707	Northing	6440141	528681	dE	26	-36	44	-36	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)	
15-Apr-2023	03:03:46	2537	AA_ENV_34			Camera	66	Easting	528712	Northing	6440139	528681	dE	31	-38	49	-39	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)	
15-Apr-2023	03:03:53	2538	AA_ENV_34			Camera	66	Easting	528713	Northing	6440138	528681	dE	31	-40	50	-38	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)	
15-Apr-2023	05:27:05	2539	AA_ENV_09			Camera	55	Easting	526020	Northing	6443047	526070	dE	6443054	-50	-7	51	82	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	05:27:56	2540	AA_ENV_09			Camera	56	Easting	526017	Northing	6443046	526070	dE	6443054	-53	-8	53	81	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
15-Apr-2023	05:28:16	2541	AA_ENV_09			Camera	56	Easting	526015	Northing	6443044	526070	dE	6443054	-55	-10	56	80	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
15-Apr-2023	05:28:23	2542	AA_ENV_09			Camera	56	Easting	526015	Northing	6443043	526070	dE	6443054	-56	-11	57	79	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
15-Apr-2023	05:28:40	2543	AA_ENV_09			Camera	56	Easting	526015	Northing	6443042	526070	dE	6443054	-56	-12	57	78	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
15-Apr-2023	05:28:54	2544	AA_ENV_09			Camera	56	Easting	526015	Northing	6443041	526070	dE	6443054	-55	-13	57	77	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
15-Apr-2023	05:29:05	2545	AA_ENV_09			Camera	55	526016	6443042	526070	6443054	-54	-12	55	78	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
15-Apr-2023	05:29:44	2546	AA_ENV_09			Camera	55	526021	6443043	526070	6443054	-49	-11	51	77	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
15-Apr-2023	05:30:08	2547	AA_ENV_09			Camera	56	526023	6443045	526070	6443054	-47	-9	48	79	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
15-Apr-2023	05:30:20	2548	AA_ENV_09			Camera	56	526025	6443045	526070	6443054	-45	-9	46	78	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
15-Apr-2023	05:30:32	2549	AA_ENV_09			Camera	55	526027	6443045	526070	6443054	-44	-9	44	78	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
15-Apr-2023	05:30:39	2550	AA_ENV_09			Camera	55	526028	6443045	526070	6443054	-42	-9	43	78	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
15-Apr-2023	05:30:56	2551	AA_ENV_09			Camera	55	526031	6443045	526070	6443054	-39	-9	40	77	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
15-Apr-2023	05:31:01	2552	AA_ENV_09			Camera	56	526031	6443046	526070	6443054	-39	-8	40	78	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
15-Apr-2023	05:31:57	2553	AA_ENV_09			Camera	55	526041	6443044	526070	6443054	-30	-10	31	72	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
15-Apr-2023	05:32:03	2554	AA_ENV_09			Camera	55	526041	6443045	526070	6443054	-29	-9	31	73	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
15-Apr-2023	05:32:15	2555	AA_ENV_09			Camera	55	526043	6443044	526070	6443054	-28	-10	29	70	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
15-Apr-2023	05:32:27	2556	AA_ENV_09			Camera	55	526043	6443045	526070	6443054	-27	-9	28	71	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
15-Apr-2023	05:32:35	2557	AA_ENV_09			Camera	55	526045	6443044	526070	6443054	-25	-10	27	69	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
15-Apr-2023	05:33:10	2558	AA_ENV_09			Camera	55	526051	6443044	526070	6443054	-19	-10	22	62	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
15-Apr-2023	05:33:18	2559	AA_ENV_09			Camera	55	526052	6443044	526070	6443054	-18	-10	21	61	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
15-Apr-2023	05:33:27	2560	AA_ENV_09			Camera	55	526054	6443044	526070	6443054	-16	-10	19	58	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
15-Apr-2023	05:34:09	2561	AA_ENV_09			Camera	55	526060	6443043	526070	6443054	-10	-11	14	43	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
15-Apr-2023	05:34:25	2562	AA_ENV_09			Camera	55	526063	6443044	526070	6443054	-7	-10	12	37	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
15-Apr-2023	05:34:35	2563	AA_ENV_09			Camera	55	526065	6443045	526070	6443054	-6	-9	11	31	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
15-Apr-2023	05:34:49	2564	AA_ENV_09			Camera	55	526067	6443045	526070	6443054	-3	-9	10	18	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
15-Apr-2023	05:34:55	2565	AA_ENV_09			Camera	55	526068	6443045	526070	6443054	-3	-9	9	16	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
15-Apr-2023	05:35:05	2566	AA_ENV_09			Camera	55	526070	6443044	526070	6443054	0	-10	10	-1	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
15-Apr-2023	05:35:29	2567	AA_ENV_09			Camera	55	526074	6443045	526070	6443054	4	-9	10	-23	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
15-Apr-2023	05:35:35	2568	AA_ENV_09			Camera	55	526075	6443045	526070	6443054	5	-9	10	-30	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
15-Apr-2023	05:36:04	2569	AA_ENV_09			Camera	55	526079	6443045	526070	6443054	9	-9	13	-45	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
15-Apr-2023	05:36:26	2570	AA_ENV_09			Camera	55	526084	6443046	526070	6443054	14	-8	16	-59	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
15-Apr-2023	05:36:36	2571	AA_ENV_09			Camera	55	526086	6443045	526070	6443054	16	-9	18	-60	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
15-Apr-2023	05:36:56	2572	AA_ENV_09			Camera	55	526088	6443045	526070	6443054	18	-9	20	-63	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
15-Apr-2023	05:37:27	2573	AA_ENV_09			Camera	55	526093	6443046	526070	6443054	23	-8	24	-70	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
15-Apr-2023	05:38:03	2574	AA_ENV_09			Camera	55	526098	6443048	526070	6443054	28	-6	29	-77	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A) # No photo taken
15-Apr-2023	05:38:05	2575	AA_ENV_09			Camera	55	526098	6443048	526070	6443054	28	-6	29	-78	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
15-Apr-2023	05:38:33	2576	AA_ENV_09			Camera	55	526102	6443049	526070	6443054	32	-5	33	-81	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
15-Apr-2023	05:39:18	2577	AA_ENV_09			Camera	55	526109	6443049	526070	6443054	39	-5	39	-83	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
15-Apr-2023	05:39:28	2578	AA_ENV_09			Camera	55	526110	6443049	526070	6443054	40	-5	40	-84	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
15-Apr-2023	05:40:26	2579	AA_ENV_09			Camera	55	526118	6443049	526070	6443054	48	-5	48	-84	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
15-Apr-2023	07:10:48	2580	AA_ENV_17			Camera	52	528628	6443749	528669	6443788	-41	-39	56	47	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	07:11:47	2581	AA_ENV_17			Camera	52	528629	6443750	528669	6443788	-40	-38	55	47	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
15-Apr-2023	07:11:57	2582	AA_ENV_17			Camera	52	528630	6443750	528669	6443788	-39	-37	54	46	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)	
15-Apr-2023	07:12:11	2583	AA_ENV_17			Camera	52	528631	6443752	528669	6443788	-38	-36	52	47	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)	
15-Apr-2023	07:12:27	2584	AA_ENV_17			Camera	52	528633	6443753	528669	6443788	-36	-35	50	45	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)	
15-Apr-2023	07:13:29	2585	AA_ENV_17			Camera	52	528641	6443756	528669	6443788	-28	-32	43	42	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)	
15-Apr-2023	07:13:55	2586	AA_ENV_17			Camera	52	528643	6443759	528669	6443788	-26	-29	39	42	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)	
15-Apr-2023	07:14:34	2587	AA_ENV_17			Camera	52	528646	6443762	528669	6443788	-23	-25	34	42	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)	
15-Apr-2023	07:14:41	2588	AA_ENV_17			Camera	52	528648	6443763	528669	6443788	-21	-24	32	41	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)	
15-Apr-2023	07:15:10	2589	AA_ENV_17			Camera	52	528651	6443768	528669	6443788	-18	-20	27	43	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)	
15-Apr-2023	07:15:17	2590	AA_ENV_17			Camera	52	528652	6443769	528669	6443788	-18	-19	26	43	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)	
15-Apr-2023	07:15:32	2591	AA_ENV_17			Camera	52	528653	6443771	528669	6443788	-16	-17	23	43	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)	
15-Apr-2023	07:15:41	2592	AA_ENV_17			Camera	52	528655	6443772	528669	6443788	-14	-16	21	42	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)	
15-Apr-2023	07:15:57	2593	AA_ENV_17			Camera	52	528656	6443774	528669	6443788	-13	-14	19	43	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)	
15-Apr-2023	07:16:06	2594	AA_ENV_17			Camera	52	528658	6443775	528669	6443788	-11	-13	17	40	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)	
15-Apr-2023	07:16:37	2595	AA_ENV_17			Camera	52	528660	6443778	528669	6443788	-9	-10	13	42	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)	
15-Apr-2023	07:16:47	2596	AA_ENV_17			Camera	52	528663	6443776	528669	6443788	-6	-12	13	28	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)	
15-Apr-2023	07:17:07	2597	AA_ENV_17			Camera	52	528663	6443781	528669	6443788	-6	-7	9	43	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)	
15-Apr-2023	07:17:25	2598	AA_ENV_17			Camera	52	528665	6443782	528669	6443788	-4	-6	7	38	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)	
15-Apr-2023	07:17:41	2599	AA_ENV_17			Camera	52	528664	6443784	528669	6443788	-5	-4	6	51	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)	
15-Apr-2023	07:17:58	2600	AA_ENV_17			Camera	52	528666	6443784	528669	6443788	-3	-4	5	41	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)	
15-Apr-2023	07:18:16	2601	AA_ENV_17			Camera	52	528668	6443786	528669	6443788	-1	-2	2	29	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)	
15-Apr-2023	07:18:28	2602	AA_ENV_17			Camera	52	528668	6443787	528669	6443788	-2	-1	2	53	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)	
15-Apr-2023	07:19:37	2603	AA_ENV_17			Camera	52	528673	6443790	528669	6443788	4	2	5	-117	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)	
15-Apr-2023	07:20:21	2604	AA_ENV_17			Camera	52	528680	6443793	528669	6443788	11	5	12	-116	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)	
15-Apr-2023	07:20:47	2605	AA_ENV_17			Camera	52	528682	6443795	528669	6443788	13	7	15	-119	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)	
15-Apr-2023	07:21:30	2606	AA_ENV_17			Camera	52	528688	6443800	528669	6443788	19	12	23	-123	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)	
15-Apr-2023	07:21:44	2607	AA_ENV_17			Camera	54	528690	6443802	528669	6443788	21	14	25	-124	(Raw Nav, Kongsberg 14208, img#28) (B)	
15-Apr-2023	07:22:06	2607a	AA_ENV_17			Camera	52	528692	6443803	528669	6443788	23	16	28	-124	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A) # Double Fix	
15-Apr-2023	07:23:04	2608	AA_ENV_17			Camera	52	528699	6443812	528669	6443788	30	24	39	-128	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)	
15-Apr-2023	07:23:11	2609	AA_ENV_17			Camera	52	528700	6443812	528669	6443788	31	25	40	-129	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)	
15-Apr-2023	07:23:21	2610	AA_ENV_17			Camera	52	528701	6443813	528669	6443788	32	26	41	-129	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)	
15-Apr-2023	07:23:27	2611	AA_ENV_17			Camera	52	528701	6443814	528669	6443788	32	27	42	-130	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)	
15-Apr-2023	07:23:35	2612	AA_ENV_17			Camera	52	528702	6443816	528669	6443788	33	28	44	-130	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)	
15-Apr-2023	07:23:42	2613	AA_ENV_17			Camera	52	528703	6443815	528669	6443788	34	28	44	-129	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)	
15-Apr-2023	07:23:57	2614	AA_ENV_17			Camera	52	528704	6443818	528669	6443788	35	30	46	-130	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)	
15-Apr-2023	07:24:05	2615	AA_ENV_17			Camera	52	528706	6443819	528669	6443788	37	31	48	-130	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)	
15-Apr-2023	07:24:11	2616	AA_ENV_17			Camera	52	528705	6443819	528669	6443788	36	31	48	-131	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)	
15-Apr-2023	07:24:19	2617	AA_ENV_17			Camera	52	528707	6443820	528669	6443788	38	32	50	-130	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)	

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463					Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y				
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon									
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT		
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
15-Apr-2023	09:10:27	2618	AA_ENV_41			Camera	52	529393	6445503	529446	6445486	-53	17	56	107	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	09:11:05	2619	AA_ENV_41			Camera	52	529397	6445504	529446	6445486	-49	18	52	110	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
15-Apr-2023	09:11:14	2620	AA_ENV_41			Camera	52	529398	6445504	529446	6445486	-48	18	51	111	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
15-Apr-2023	09:11:21	2621	AA_ENV_41			Camera	52	529398	6445505	529446	6445486	-47	18	51	111	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
15-Apr-2023	09:11:51	2622	AA_ENV_41			Camera	52	529401	6445505	529446	6445486	-44	18	48	112	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
15-Apr-2023	09:11:58	2623	AA_ENV_41			Camera	52	529401	6445504	529446	6445486	-44	18	48	112	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
15-Apr-2023	09:12:10	2624	AA_ENV_41			Camera	52	529403	6445504	529446	6445486	-43	18	47	113	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
15-Apr-2023	09:12:29	2625	AA_ENV_41			Camera	52	529405	6445505	529446	6445486	-41	18	45	114	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
15-Apr-2023	09:13:10	2626	AA_ENV_41			Camera	52	529409	6445504	529446	6445486	-37	18	41	116	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
15-Apr-2023	09:13:30	2627	AA_ENV_41			Camera	52	529411	6445504	529446	6445486	-35	17	39	116	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
15-Apr-2023	09:14:37	2628	AA_ENV_41			Camera	52	529421	6445501	529446	6445486	-25	15	29	121	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
15-Apr-2023	09:14:53	2629	AA_ENV_41			Camera	52	529424	6445501	529446	6445486	-22	15	27	124	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
15-Apr-2023	09:15:02	2630	AA_ENV_41			Camera	52	529425	6445501	529446	6445486	-21	14	26	124	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
15-Apr-2023	09:15:09	2631	AA_ENV_41			Camera	52	529426	6445500	529446	6445486	-20	14	24	124	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
15-Apr-2023	09:15:14	2632	AA_ENV_41			Camera	52	529427	6445500	529446	6445486	-19	14	23	126	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
15-Apr-2023	09:15:22	2633	AA_ENV_41			Camera	52	529428	6445499	529446	6445486	-18	13	22	126	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
15-Apr-2023	09:15:39	2634	AA_ENV_41			Camera	52	529431	6445498	529446	6445486	-15	12	19	128	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
15-Apr-2023	09:16:30	2635	AA_ENV_41			Camera	52	529432	6445494	529446	6445486	-14	7	15	118	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
15-Apr-2023	09:16:54	2636	AA_ENV_41			Camera	52	529433	6445491	529446	6445486	-13	5	14	110	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
15-Apr-2023	09:17:00	2637	AA_ENV_41			Camera	52	529432	6445490	529446	6445486	-13	3	14	104	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
15-Apr-2023	09:17:24	2638	AA_ENV_41			Camera	52	529437	6445492	529446	6445486	-9	5	10	122	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
15-Apr-2023	09:17:34	2639	AA_ENV_41			Camera	52	529439	6445491	529446	6445486	-7	4	8	120	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
15-Apr-2023	09:17:49	2640	AA_ENV_41			Camera	52	529441	6445490	529446	6445486	-5	4	6	127	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
15-Apr-2023	09:18:20	2641	AA_ENV_41			Camera	52	529444	6445488	529446	6445486	-2	1	2	128	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
15-Apr-2023	09:18:40	2642	AA_ENV_41			Camera	52	529444	6445487	529446	6445486	-1	1	2	121	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
15-Apr-2023	09:18:46	2643	AA_ENV_41			Camera	52	529444	6445486	529446	6445486	-2	0	2	79	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
15-Apr-2023	09:19:08	2644	AA_ENV_41			Camera	52	529446	6445485	529446	6445486	0	-1	1	-3	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
15-Apr-2023	09:19:28	2645	AA_ENV_41			Camera	52	529449	6445485	529446	6445486	3	-2	4	-64	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
15-Apr-2023	09:19:36	2646	AA_ENV_41			Camera	52	529450	6445484	529446	6445486	4	-3	5	-57	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
15-Apr-2023	09:19:43	2647	AA_ENV_41			Camera	52	529451	6445483	529446	6445486	5	-3	6	-57	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
15-Apr-2023	09:19:58	2648	AA_ENV_41			Camera	52	529453	6445482	529446	6445486	7	-4	9	-59	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
15-Apr-2023	09:20:16	2649	AA_ENV_41			Camera	52	529454	6445478	529446	6445486	8	-8	11	-45	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
15-Apr-2023	09:20:22	2650	AA_ENV_41			Camera	52	529456	6445480	529446	6445486	10	-6	12	-59	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
15-Apr-2023	09:20:46	2651	AA_ENV_41			Camera	52	529458	6445478	529446	6445486	12	-8	15	-56	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
15-Apr-2023	09:20:53	2652	AA_ENV_41			Camera	52	529459	6445478	529446	6445486	13	-8	16	-57	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
15-Apr-2023	09:21:26	2653	AA_ENV_41			Camera	52	529463	6445476	529446	6445486	17	-11	20	-57	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
15-Apr-2023	09:21:33	2654	AA_ENV_41			Camera	52	529463	6445475	529446	6445486	18	-11	21	-57	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
15-Apr-2023	09:21:49	2655	AA_ENV_41			Camera	52	529465	6445474	529446	6445486	19	-12	23	-57	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
15-Apr-2023	09:22:08	2656	AA_ENV_41			Camera	52	529467	6445473	529446	6445486	21	-13	25	-58	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
15-Apr-2023	09:22:34	2657	AA_ENV_41			Camera	52	529470	6445471	529446	6445486	24	-16	29	-57	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
15-Apr-2023	09:22:55	2658	AA_ENV_41			Camera	52	529472	6445470	529446	6445486	27	-16	31	-58	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
15-Apr-2023	09:23:46	2659	AA_ENV_41			Camera	52	529476	6445468	529446	6445486	30	-18	35	-58	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
15-Apr-2023	09:24:34	2660	AA_ENV_41			Camera	52	529480	6445466	529446	6445486	34	-21	40	-59	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
15-Apr-2023	09:24:57	2661	AA_ENV_41			Camera	52	529482	6445464	529446	6445486	36	-22	43	-59	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
15-Apr-2023	09:25:26	2662	AA_ENV_41			Camera	52	529485	6445463	529446	6445486	39	-23	46	-59	(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
15-Apr-2023	11:35:33	2663	AA_ENV_07			Camera	53	528485	6448078	528478	6448025	8	53	53	-172	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	11:35:49	2664	AA_ENV_07			Camera	53	528483	6448076	528478	6448025	6	51	51	-174	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
15-Apr-2023	11:36:06	2665	AA_ENV_07			Camera	53	528479	6448074	528478	6448025	2	49	49	-178	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
15-Apr-2023	11:36:22	2666	AA_ENV_07			Camera	53	528476	6448071	528478	6448025	-2	46	46	177	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
15-Apr-2023	11:37:01	2667	AA_ENV_07			Camera	53	528468	6448066	528478	6448025	-9	41	42	167	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
15-Apr-2023	11:37:16	2668	AA_ENV_07			Camera	53	528466	6448063	528478	6448025	-12	38	40	163	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
15-Apr-2023	11:37:38	2669	AA_ENV_07			Camera	53	528463	6448059	528478	6448025	-14	34	37	157	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
15-Apr-2023	11:37:57	2670	AA_ENV_07			Camera	53	528461	6448054	528478	6448025	-16	29	33	151	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
15-Apr-2023	11:38:29	2671	AA_ENV_07			Camera	53	528459	6448045	528478	6448025	-19	20	27	137	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
15-Apr-2023	11:38:52	2672	AA_ENV_07			Camera	53	528458	6448038	528478	6448025	-19	13	23	124	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
15-Apr-2023	11:39:10	2673	AA_ENV_07			Camera	53	528459	6448034	528478	6448025	-19	9	21	116	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
15-Apr-2023	11:39:30	2674	AA_ENV_07			Camera	53	528462	6448032	528478	6448025	-16	7	17	115	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
15-Apr-2023	11:39:55	2675	AA_ENV_07			Camera	53	528465	6448033	528478	6448025	-12	8	15	122	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
15-Apr-2023	11:40:17	2676	AA_ENV_07			Camera	53	528467	6448034	528478	6448025	-11	10	14	132	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
15-Apr-2023	11:41:01	2677	AA_ENV_07			Camera	53	528475	6448035	528478	6448025	-2	10	10	167	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
15-Apr-2023	11:52:32	2678	AA_ENV_07			Camera	53	528464	6448039	528478	6448025	-14	14	20	136	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
15-Apr-2023	11:53:08	2679	AA_ENV_07			Camera	53	528471	6448036	528478	6448025	-7	11	13	148	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
15-Apr-2023	11:53:23	2680	AA_ENV_07			Camera	53	528473	6448033	528478	6448025	-4	8	9	153	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
15-Apr-2023	11:53:36	2681	AA_ENV_07			Camera	53	528475	6448032	528478	6448025	-3	7	8	158	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
15-Apr-2023	11:53:49	2682	AA_ENV_07			Camera	53	528476	6448030	528478	6448025	-1	5	5	164	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
15-Apr-2023	11:54:40	2683	AA_ENV_07			Camera	53	528479	6448026	528478	6448025	1	1	1	-121	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
15-Apr-2023	11:55:01	2684	AA_ENV_07			Camera	53	528480	6448024	528478	6448025	2	-1	2	-64	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
15-Apr-2023	11:55:23	2685	AA_ENV_07			Camera	53	528482	6448022	528478	6448025	4	-3	5	-53	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
15-Apr-2023	11:55:36	2686	AA_ENV_07			Camera	53	528484	6448020	528478	6448025	6	-5	8	-54	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
15-Apr-2023	11:55:58	2687	AA_ENV_07			Camera	53	528487	6448018	528478	6448025	10	-7	12	-54	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
15-Apr-2023	11:56:10	2688	AA_ENV_07			Camera	53	528489	6448016	528478	6448025	11	-9	14	-53	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
15-Apr-2023	11:56:24	2689	AA_ENV_07			Camera	53	528492	6448014	528478	6448025	14	-11	18	-52	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
15-Apr-2023	11:56:40	2690	AA_ENV_07			Camera	53	528494	6448013	528478	6448025	17	-12	21	-54	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
15-Apr-2023	11:56:58	2691	AA_ENV_07			Camera	53	528498	6448011	528478	6448025	20	-14	25	-56	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463					Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks	
15-Apr-2023	11:57:17	2692	AA_ENV_07			Camera	53	528501	6448009	528478	6448025	24	-16	29	-56		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
15-Apr-2023	11:57:37	2693	AA_ENV_07			Camera	53	528504	6448007	528478	6448025	27	-18	32	-56		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
15-Apr-2023	11:57:54	2694	AA_ENV_07			Camera	53	528504	6448005	528478	6448025	27	-20	34	-53		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
15-Apr-2023	11:58:05	2695	AA_ENV_07			Camera	53	528505	6448003	528478	6448025	27	-22	35	-51		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
15-Apr-2023	11:58:16	2696	AA_ENV_07			Camera	53	528505	6448002	528478	6448025	28	-23	36	-50		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
15-Apr-2023	11:58:24	2697	AA_ENV_07			Camera	53	528506	6448001	528478	6448025	28	-24	37	-49		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
15-Apr-2023	11:58:31	2698	AA_ENV_07			Camera	53	528507	6448000	528478	6448025	29	-25	38	-49		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
15-Apr-2023	11:58:42	2699	AA_ENV_07			Camera	53	528508	6447998	528478	6448025	30	-27	40	-49		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
15-Apr-2023	11:58:50	2700	AA_ENV_07			Camera	53	528509	6447997	528478	6448025	31	-28	42	-48		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
15-Apr-2023	11:58:57	2701	AA_ENV_07			Camera	53	528510	6447996	528478	6448025	32	-29	44	-48		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
15-Apr-2023	11:59:05	2702	AA_ENV_07			Camera	53	528511	6447995	528478	6448025	34	-30	45	-48		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
15-Apr-2023	11:59:13	2703	AA_ENV_07			Camera	53	528513	6447994	528478	6448025	35	-31	47	-48		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
15-Apr-2023	15:02:20	2704	AA_ENV_23			Camera	52	526303	6451116	526340	6451078	-37	37	52	135		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	15:02:50	2705	AA_ENV_23			Camera	52	526306	6451114	526340	6451078	-34	36	49	137		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
15-Apr-2023	15:02:59	2706	AA_ENV_23			Camera	52	526307	6451114	526340	6451078	-33	35	48	137		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
15-Apr-2023	15:03:25	2707	AA_ENV_23			Camera	52	526310	6451111	526340	6451078	-30	33	44	138		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
15-Apr-2023	15:03:34	2708	AA_ENV_23			Camera	52	526311	6451110	526340	6451078	-29	32	43	138		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
15-Apr-2023	15:03:43	2709	AA_ENV_23			Camera	52	526311	6451109	526340	6451078	-29	31	42	137		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
15-Apr-2023	15:03:57	2710	AA_ENV_23			Camera	52	526312	6451107	526340	6451078	-28	29	40	137		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
15-Apr-2023	15:04:14	2711	AA_ENV_23			Camera	52	526314	6451105	526340	6451078	-25	27	37	137		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
15-Apr-2023	15:04:28	2712	AA_ENV_23			Camera	52	526316	6451103	526340	6451078	-23	25	34	137		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
15-Apr-2023	15:04:47	2713	AA_ENV_23			Camera	52	526319	6451100	526340	6451078	-20	22	30	137		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
15-Apr-2023	15:05:09	2714	AA_ENV_23			Camera	52	526321	6451097	526340	6451078	-19	19	27	135		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
15-Apr-2023	15:05:27	2715	AA_ENV_23			Camera	52	526323	6451095	526340	6451078	-17	17	24	136		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
15-Apr-2023	15:05:36	2716	AA_ENV_23			Camera	52	526323	6451094	526340	6451078	-17	16	23	134		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
15-Apr-2023	15:05:55	2717	AA_ENV_23			Camera	52	526324	6451092	526340	6451078	-16	14	21	131		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
15-Apr-2023	15:06:09	2718	AA_ENV_23			Camera	52	526326	6451091	526340	6451078	-14	13	19	132		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
15-Apr-2023	15:06:50	2719	AA_ENV_23			Camera	52	526331	6451087	526340	6451078	-9	9	12	134		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
15-Apr-2023	15:07:57	2720	AA_ENV_23			Camera	52	526338	6451081	526340	6451078	-2	3	4	147		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
15-Apr-2023	15:08:13	2721	AA_ENV_23			Camera	52	526339	6451079	526340	6451078	0	1	1	165		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
15-Apr-2023	15:08:21	2722	AA_ENV_23			Camera	52	526340	6451079	526340	6451078	1	0	1	-119		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
15-Apr-2023	15:08:56	2723	AA_ENV_23			Camera	52	526342	6451076	526340	6451078	2	-2	3	-54		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
15-Apr-2023	15:09:33	2724	AA_ENV_23			Camera	52	526346	6451074	526340	6451078	6	-5	7	-52		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
15-Apr-2023	15:09:48	2725	AA_ENV_23			Camera	52	526348	6451072	526340	6451078	9	-6	11	-56		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
15-Apr-2023	15:10:12	2726	AA_ENV_23			Camera	53	526351	6451069	526340	6451078	11	-9	14	-52		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
15-Apr-2023	15:10:20	2727	AA_ENV_23			Camera	52	526351	6451068	526340	6451078	12	-10	16	-48		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
15-Apr-2023	15:10:55	2728	AA_ENV_23			Camera	52	526353	6451063	526340	6451078	14	-15	20	-42		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
15-Apr-2023	15:11:09	2729	AA_ENV_23			Camera	52	526355	6451061	526340	6451078	15	-17	23	-42	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
15-Apr-2023	15:11:20	2730	AA_ENV_23			Camera	52	526357	6451059	526340	6451078	17	-19	26	-41	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
15-Apr-2023	15:11:35	2731	AA_ENV_23			Camera	52	526359	6451058	526340	6451078	19	-21	28	-43	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
15-Apr-2023	15:11:52	2732	AA_ENV_23			Camera	52	526360	6451056	526340	6451078	20	-22	30	-42	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
15-Apr-2023	15:12:04	2733	AA_ENV_23			Camera	52	526359	6451054	526340	6451078	20	-24	31	-40	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
15-Apr-2023	15:12:27	2734	AA_ENV_23			Camera	53	526361	6451051	526340	6451078	22	-27	35	-39	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
15-Apr-2023	15:12:41	2735	AA_ENV_23			Camera	52	526364	6451050	526340	6451078	25	-28	37	-42	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
15-Apr-2023	15:12:56	2736	AA_ENV_23			Camera	52	526366	6451049	526340	6451078	26	-29	39	-42	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
15-Apr-2023	15:13:06	2737	AA_ENV_23			Camera	52	526367	6451048	526340	6451078	27	-30	41	-42	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
15-Apr-2023	15:13:21	2738	AA_ENV_23			Camera	52	526367	6451046	526340	6451078	28	-32	42	-41	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
15-Apr-2023	15:13:43	2739	AA_ENV_23			Camera	52	526369	6451044	526340	6451078	29	-34	45	-40	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
15-Apr-2023	15:13:51	2740	AA_ENV_23			Camera	52	526370	6451043	526340	6451078	30	-35	46	-41	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
15-Apr-2023	15:14:07	2741	AA_ENV_23			Camera	52	526372	6451041	526340	6451078	32	-37	49	-41	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
15-Apr-2023	17:01:23	2742	AA_ENV_20			Camera	51	526119	6454777	526165	6454740	-45	36	58	129	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
15-Apr-2023	17:02:16	2743	AA_ENV_20			Camera	51	526124	6454771	526165	6454740	-40	30	50	127	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
15-Apr-2023	17:02:32	2744	AA_ENV_20			Camera	51	526126	6454768	526165	6454740	-38	28	48	126	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
15-Apr-2023	17:02:56	2745	AA_ENV_20			Camera	51	526128	6454766	526165	6454740	-36	26	44	125	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
15-Apr-2023	17:03:14	2746	AA_ENV_20			Camera	51	526129	6454764	526165	6454740	-35	24	43	124	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
15-Apr-2023	17:03:45	2747	AA_ENV_20			Camera	51	526133	6454761	526165	6454740	-31	21	37	123	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
15-Apr-2023	17:04:13	2748	AA_ENV_20			Camera	51	526137	6454757	526165	6454740	-28	16	32	121	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
15-Apr-2023	17:04:22	2749	AA_ENV_20			Camera	51	526138	6454755	526165	6454740	-27	15	30	119	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
15-Apr-2023	17:04:43	2750	AA_ENV_20			Camera	51	526141	6454753	526165	6454740	-24	12	27	117	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
15-Apr-2023	17:05:20	2751	AA_ENV_20			Camera	51	526145	6454748	526165	6454740	-19	8	21	113	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
15-Apr-2023	17:05:30	2752	AA_ENV_20			Camera	51	526146	6454748	526165	6454740	-18	8	20	114	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
15-Apr-2023	17:05:59	2753	AA_ENV_20			Camera	51	526146	6454746	526165	6454740	-19	5	20	106	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
15-Apr-2023	17:06:06	2754	AA_ENV_20			Camera	51	526146	6454746	526165	6454740	-19	5	20	106	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
15-Apr-2023	17:06:31	2755	AA_ENV_20			Camera	51	526147	6454744	526165	6454740	-18	3	18	101	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
15-Apr-2023	17:06:59	2756	AA_ENV_20			Camera	51	526151	6454741	526165	6454740	-14	1	14	94	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
15-Apr-2023	17:07:12	2757	AA_ENV_20			Camera	52	526153	6454740	526165	6454740	-11	-1	11	87	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
15-Apr-2023	17:07:41	2758	AA_ENV_20			Camera	51	526156	6454738	526165	6454740	-8	-2	9	74	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
15-Apr-2023	17:08:13	2759	AA_ENV_20			Camera	52	526159	6454737	526165	6454740	-5	-4	6	52	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
15-Apr-2023	17:08:24	2760	AA_ENV_20			Camera	52	526161	6454735	526165	6454740	-3	-5	6	34	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
15-Apr-2023	17:08:39	2761	AA_ENV_20			Camera	52	526164	6454735	526165	6454740	-1	-5	5	9	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
15-Apr-2023	17:09:07	2762	AA_ENV_20			Camera	52	526166	6454735	526165	6454740	2	-6	6	-16	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
15-Apr-2023	17:09:39	2763	AA_ENV_20			Camera	52	526166	6454733	526165	6454740	1	-7	8	-8	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
15-Apr-2023	17:09:53	2764	AA_ENV_20			Camera	52	526166	6454732	526165	6454740	2	-8	9	-13	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
15-Apr-2023	17:10:08	2765	AA_ENV_20			Camera	52	526168	6454731	526165	6454740	3	-10	10	-17	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
15-Apr-2023	17:10:19	2766	AA_ENV_20			Camera	52	526168	6454729	526165	6454740	3	-11	12	-16		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
15-Apr-2023	17:10:57	2767	AA_ENV_20			Camera	52	526171	6454726	526165	6454740	6	-14	15	-25		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
15-Apr-2023	17:11:12	2768	AA_ENV_20			Camera	52	526173	6454724	526165	6454740	8	-16	18	-27		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
15-Apr-2023	17:11:36	2769	AA_ENV_20			Camera	52	526174	6454723	526165	6454740	9	-18	20	-28		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
15-Apr-2023	17:11:44	2770	AA_ENV_20			Camera	52	526174	6454721	526165	6454740	9	-19	21	-26		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
15-Apr-2023	17:12:05	2771	AA_ENV_20			Camera	52	526177	6454720	526165	6454740	12	-20	23	-31		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
15-Apr-2023	17:12:27	2772	AA_ENV_20			Camera	52	526179	6454719	526165	6454740	15	-22	26	-34		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
15-Apr-2023	17:13:04	2773	AA_ENV_20			Camera	52	526181	6454717	526165	6454740	17	-23	28	-36		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
15-Apr-2023	17:13:14	2774	AA_ENV_20			Camera	52	526182	6454716	526165	6454740	17	-25	30	-35		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
15-Apr-2023	17:13:29	2775	AA_ENV_20			Camera	52	526183	6454715	526165	6454740	19	-26	32	-36		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
15-Apr-2023	17:13:54	2776	AA_ENV_20			Camera	52	526185	6454712	526165	6454740	21	-29	36	-36		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
15-Apr-2023	17:14:03	2777	AA_ENV_20			Camera	52	526186	6454710	526165	6454740	22	-30	37	-36		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
15-Apr-2023	17:14:12	2778	AA_ENV_20			Camera	52	526187	6454710	526165	6454740	23	-31	38	-37		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
15-Apr-2023	17:14:47	2779	AA_ENV_20			Camera	52	526189	6454707	526165	6454740	25	-33	42	-37		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
15-Apr-2023	17:15:08	2780	AA_ENV_20			Camera	52	526192	6454707	526165	6454740	27	-34	43	-39		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
15-Apr-2023	17:15:40	2781	AA_ENV_20			Camera	52	526195	6454704	526165	6454740	30	-37	48	-40		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
18-Apr-2023	20:11:46	2782	AA_ENV_38			Camera	55	528827	6454106	528860	6454156	-33	-50	60	33		(Raw Nav, Kongsberg 14208, img#1) (B)
18-Apr-2023		2783	AA_ENV_38			Camera										Lost connection with EELS, Photo but no Fix taken	
18-Apr-2023	20:12:36	2784	AA_ENV_38			Camera	54	528828	6454106	528860	6454156	-32	-50	59	33		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
18-Apr-2023	20:13:28	2785	AA_ENV_38			Camera	54	528833	6454111	528860	6454156	-27	-45	52	31		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
18-Apr-2023	20:14:14	2786	AA_ENV_38			Camera	54	528838	6454117	528860	6454156	-22	-39	45	29		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
18-Apr-2023	20:14:39	2787	AA_ENV_38			Camera	54	528840	6454118	528860	6454156	-20	-38	42	28		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
18-Apr-2023	20:15:05	2788	AA_ENV_38			Camera	54	528843	6454122	528860	6454156	-17	-34	38	26		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
18-Apr-2023	20:15:26	2789	AA_ENV_38			Camera	54	528845	6454125	528860	6454156	-15	-31	34	25		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
18-Apr-2023	20:15:54	2790	AA_ENV_38			Camera	54	528847	6454130	528860	6454156	-13	-26	29	26		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
18-Apr-2023	20:16:12	2791	AA_ENV_38			Camera	54	528848	6454133	528860	6454156	-12	-23	26	26		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
18-Apr-2023	20:16:22	2792	AA_ENV_38			Camera	54	528849	6454134	528860	6454156	-11	-22	24	26		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
18-Apr-2023	20:16:43	2793	AA_ENV_38			Camera	54	528851	6454137	528860	6454156	-9	-19	21	25		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
18-Apr-2023	20:17:01	2794	AA_ENV_38			Camera	54	528852	6454139	528860	6454156	-7	-17	18	24		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
18-Apr-2023	20:17:11	2795	AA_ENV_38			Camera	54	528853	6454140	528860	6454156	-7	-16	17	23		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
18-Apr-2023	20:17:20	2796	AA_ENV_38			Camera	54	528854	6454141	528860	6454156	-6	-15	16	21		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
18-Apr-2023	20:17:33	2797	AA_ENV_38			Camera	54	528855	6454143	528860	6454156	-5	-13	14	21		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
18-Apr-2023	20:18:05	2798	AA_ENV_38			Camera	54	528858	6454146	528860	6454156	-2	-10	11	10		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
18-Apr-2023	20:18:44	2799	AA_ENV_38			Camera	54	528860	6454151	528860	6454156	1	-5	5	-10		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
18-Apr-2023	20:19:28	2800	AA_ENV_38			Camera	54	528861	6454157	528860	6454156	1	1	2	-134		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
18-Apr-2023	20:19:35	2801	AA_ENV_38			Camera	54	528861	6454158	528860	6454156	1	2	2	-142		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
18-Apr-2023	20:19:45	2802	AA_ENV_38			Camera	54	528862	6454159	528860	6454156	2	3	4	-148		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN			Range
18-Apr-2023	20:19:52	2803	AA_ENV_38			Camera	54	528861	6454160	528860	6454156	2	4	4	-156	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
18-Apr-2023	20:20:07	2804	AA_ENV_38			Camera	54	528862	6454161	528860	6454156	3	6	6	-155	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
18-Apr-2023	20:20:15	2805	AA_ENV_38			Camera	54	528862	6454162	528860	6454156	2	6	6	-160	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
18-Apr-2023	20:20:54	2806	AA_ENV_38			Camera	54	528864	6454164	528860	6454156	4	8	9	-154	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
18-Apr-2023	20:21:03	2807	AA_ENV_38			Camera	54	528865	6454165	528860	6454156	5	9	10	-150	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
18-Apr-2023	20:21:15	2808	AA_ENV_38			Camera	54	528865	6454167	528860	6454156	6	11	12	-151	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
18-Apr-2023	20:21:50	2809	AA_ENV_38			Camera	54	528867	6454170	528860	6454156	7	15	16	-154	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
18-Apr-2023	20:22:09	2810	AA_ENV_38			Camera	54	528868	6454172	528860	6454156	9	16	18	-152	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
18-Apr-2023	20:22:21	2811	AA_ENV_38			Camera	54	528869	6454173	528860	6454156	9	17	20	-152	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
18-Apr-2023	20:22:32	2812	AA_ENV_38			Camera	54	528870	6454174	528860	6454156	10	18	21	-150	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
18-Apr-2023	20:22:56	2813	AA_ENV_38			Camera	54	528872	6454176	528860	6454156	13	20	24	-148	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
18-Apr-2023	20:23:14	2814	AA_ENV_38			Camera	54	528875	6454179	528860	6454156	15	23	27	-147	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
18-Apr-2023	20:23:28	2815	AA_ENV_38			Camera	54	528876	6454181	528860	6454156	16	25	30	-147	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
18-Apr-2023	20:24:10	2816	AA_ENV_38			Camera	54	528877	6454186	528860	6454156	18	30	35	-149	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
18-Apr-2023	20:24:22	2817	AA_ENV_38			Camera	54	528879	6454187	528860	6454156	19	31	36	-148	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
18-Apr-2023	20:24:43	2818	AA_ENV_38			Camera	54	528881	6454189	528860	6454156	21	33	39	-147	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
18-Apr-2023	20:24:58	2819	AA_ENV_38			Camera	54	528883	6454189	528860	6454156	23	33	41	-145	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
18-Apr-2023	20:25:12	2820	AA_ENV_38			Camera	54	528885	6454190	528860	6454156	25	34	42	-144	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
18-Apr-2023	20:25:29	2821	AA_ENV_38			Camera	54	528885	6454192	528860	6454156	25	36	44	-145	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
18-Apr-2023	20:25:49	2822	AA_ENV_38			Camera	54	528887	6454192	528860	6454156	27	36	46	-143	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
18-Apr-2023	20:57:11	2823	AA_ENV_01			Camera	53	530007	6454601	530014	6454656	-7	-55	56	8	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
18-Apr-2023	20:57:43	2824	AA_ENV_01			Camera	53	530010	6454605	530014	6454656	-4	-51	51	5	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
18-Apr-2023	20:58:22	2825	AA_ENV_01			Camera	53	530011	6454610	530014	6454656	-3	-46	46	4	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
18-Apr-2023	20:58:48	2826	AA_ENV_01			Camera	53	530012	6454613	530014	6454656	-2	-43	43	3	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
18-Apr-2023	20:59:10	2827	AA_ENV_01			Camera	53	530013	6454616	530014	6454656	-1	-40	40	1	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
18-Apr-2023	20:59:21	2828	AA_ENV_01			Camera	53	530013	6454618	530014	6454656	-1	-38	38	1	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
18-Apr-2023	20:59:35	2829	AA_ENV_01			Camera	53	530015	6454619	530014	6454656	0	-37	37	-1	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
18-Apr-2023	20:59:58	2830	AA_ENV_01			Camera	53	530016	6454622	530014	6454656	2	-34	34	-4	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
18-Apr-2023	21:00:25	2831	AA_ENV_01			Camera	53	530017	6454626	530014	6454656	3	-30	30	-6	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
18-Apr-2023	21:00:43	2832	AA_ENV_01			Camera	53	530018	6454629	530014	6454656	4	-27	27	-8	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
18-Apr-2023	21:01:04	2833	AA_ENV_01			Camera	53	530018	6454632	530014	6454656	4	-24	24	-9	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
18-Apr-2023	21:01:20	2834	AA_ENV_01			Camera	53	530018	6454635	530014	6454656	4	-22	22	-10	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
18-Apr-2023	21:01:32	2835	AA_ENV_01			Camera	53	530017	6454636	530014	6454656	3	-20	20	-8	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
18-Apr-2023	21:02:16	2836	AA_ENV_01			Camera	53	530017	6454641	530014	6454656	2	-15	15	-9	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
18-Apr-2023	21:02:38	2837	AA_ENV_01			Camera	53	530016	6454643	530014	6454656	2	-13	13	-8	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
18-Apr-2023	21:02:49	2838	AA_ENV_01			Camera	53	530016	6454644	530014	6454656	2	-13	13	-8	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
18-Apr-2023	21:03:08	2839	AA_ENV_01			Camera	53	530016	6454645	530014	6454656	2	-11	11	-11	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463					Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y					
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon										
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
18-Apr-2023	21:03:57	2840	AA_ENV_01			Camera	53	530017	6454650	530014	6454656	3	-6	6	-24		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
18-Apr-2023	21:04:11	2841	AA_ENV_01			Camera	53	530016	6454651	530014	6454656	2	-5	5	-27		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
18-Apr-2023	21:04:22	2842	AA_ENV_01			Camera	53	530016	6454653	530014	6454656	2	-3	4	-31		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
18-Apr-2023	21:04:51	2843	AA_ENV_01			Camera	53	530015	6454656	530014	6454656	1	0	1	-79		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
18-Apr-2023	21:05:00	2844	AA_ENV_01			Camera	53	530015	6454657	530014	6454656	1	1	1	-130		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
18-Apr-2023	21:05:13	2845	AA_ENV_01			Camera	53	530014	6454658	530014	6454656	0	2	2	-173		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
18-Apr-2023	21:05:21	2846	AA_ENV_01			Camera	53	530014	6454659	530014	6454656	0	3	3	-176		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
18-Apr-2023	21:05:28	2847	AA_ENV_01			Camera	53	530014	6454660	530014	6454656	0	4	4	-179		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
18-Apr-2023	21:05:51	2848	AA_ENV_01			Camera	53	530013	6454662	530014	6454656	-1	6	6	171		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
18-Apr-2023	21:06:09	2849	AA_ENV_01			Camera	53	530013	6454664	530014	6454656	-1	8	8	170		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
18-Apr-2023	21:06:38	2850	AA_ENV_01			Camera	53	530012	6454666	530014	6454656	-2	10	10	168		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
18-Apr-2023	21:07:09	2851	AA_ENV_01			Camera	53	530012	6454667	530014	6454656	-2	11	12	171		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
18-Apr-2023	21:07:21	2852	AA_ENV_01			Camera	53	530013	6454669	530014	6454656	-1	13	13	174		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
18-Apr-2023	21:07:42	2853	AA_ENV_01			Camera	53	530014	6454670	530014	6454656	0	14	14	179		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
18-Apr-2023	21:08:20	2854	AA_ENV_01			Camera	53	530015	6454674	530014	6454656	1	18	18	-176		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
18-Apr-2023	21:08:36	2855	AA_ENV_01			Camera	53	530016	6454677	530014	6454656	2	21	21	-176		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
18-Apr-2023	21:08:53	2856	AA_ENV_01			Camera	53	530016	6454679	530014	6454656	2	23	23	-176		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
18-Apr-2023	21:09:24	2857	AA_ENV_01			Camera	53	530016	6454683	530014	6454656	2	28	28	-176		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
18-Apr-2023	21:09:38	2858	AA_ENV_01			Camera	53	530016	6454685	530014	6454656	2	29	29	-176		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
18-Apr-2023	21:09:47	2859	AA_ENV_01			Camera	53	530017	6454685	530014	6454656	3	29	30	-175		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
18-Apr-2023	21:10:12	2860	AA_ENV_01			Camera	53	530018	6454689	530014	6454656	3	33	33	-174		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
18-Apr-2023	21:10:42	2861	AA_ENV_01			Camera	53	530019	6454691	530014	6454656	5	35	35	-172		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
18-Apr-2023	21:11:32	2862	AA_ENV_01			Camera	53	530022	6454695	530014	6454656	8	39	40	-168		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
18-Apr-2023	21:11:54	2863	AA_ENV_01			Camera	53	530023	6454698	530014	6454656	9	42	43	-168		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
18-Apr-2023	21:12:13	2864	AA_ENV_01			Camera	53	530024	6454701	530014	6454656	10	45	46	-168		(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
18-Apr-2023	22:37:16	2865	AA_ENV_39			Camera	60	534159	6455071	534188	6455116	-29	-46	54	32		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
18-Apr-2023	22:37:58	2866	AA_ENV_39			Camera	60	534162	6455074	534188	6455116	-26	-42	49	32		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
18-Apr-2023	22:38:11	2867	AA_ENV_39			Camera	60	534163	6455075	534188	6455116	-25	-41	48	31		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
18-Apr-2023	22:38:35	2868	AA_ENV_39			Camera	60	534166	6455078	534188	6455116	-22	-38	44	29		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
18-Apr-2023	22:39:05	2869	AA_ENV_39			Camera	60	534170	6455081	534188	6455116	-18	-35	39	27		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
18-Apr-2023	22:39:38	2870	AA_ENV_39			Camera	60	534174	6455087	534188	6455116	-14	-30	33	25		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
18-Apr-2023	22:39:45	2871	AA_ENV_39			Camera	60	534175	6455088	534188	6455116	-13	-29	32	25		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
18-Apr-2023	22:40:00	2872	AA_ENV_39			Camera	60	534176	6455090	534188	6455116	-12	-26	28	24		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
18-Apr-2023	22:40:10	2873	AA_ENV_39			Camera	60	534177	6455092	534188	6455116	-11	-25	27	25		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
18-Apr-2023	22:40:29	2874	AA_ENV_39			Camera	60	534179	6455094	534188	6455116	-9	-22	24	22		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
18-Apr-2023	22:40:44	2875	AA_ENV_39			Camera	60	534180	6455097	534188	6455116	-8	-19	21	23		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
18-Apr-2023	22:41:16	2876	AA_ENV_39			Camera	60	534182	6455102	534188	6455116	-6	-14	15	22		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463					Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y				
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon			z	21.94	z	2.93			
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT		
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
18-Apr-2023	22:41:33	2877	AA_ENV_39			Camera	60	534183	6455104	534188	6455116	-4	-12	13	20	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
18-Apr-2023	22:41:44	2878	AA_ENV_39			Camera	60	534184	6455107	534188	6455116	-4	-10	11	23	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
18-Apr-2023	22:41:54	2879	AA_ENV_39			Camera	62	534185	6455106	534188	6455116	-3	-10	11	16	(Raw Nav, Kongsberg 14208, img#15) (B)
18-Apr-2023	22:42:09	2880	AA_ENV_39			Camera	62	534185	6455109	534188	6455116	-3	-7	8	22	(Raw Nav, Kongsberg 14208, img#16) (B)
18-Apr-2023	22:42:31	2881	AA_ENV_39			Camera	62	534186	6455113	534188	6455116	-2	-3	4	30	(Raw Nav, Kongsberg 14208, img#17) (B)
18-Apr-2023	22:42:46	2882	AA_ENV_39			Camera	62	534187	6455114	534188	6455116	-1	-2	2	21	(Raw Nav, Kongsberg 14208, img#18) (B)
18-Apr-2023	22:42:58	2883	AA_ENV_39			Camera	62	534187	6455116	534188	6455116	-1	0	1	70	(Raw Nav, Kongsberg 14208, img#19) (B)
18-Apr-2023	22:43:20	2884	AA_ENV_39			Camera	62	534188	6455118	534188	6455116	0	2	2	-176	(Raw Nav, Kongsberg 14208, img#20) (B)
18-Apr-2023	22:43:35	2885	AA_ENV_39			Camera	62	534189	6455120	534188	6455116	1	4	4	-163	(Raw Nav, Kongsberg 14208, img#21) (B)
18-Apr-2023	22:43:50	2886	AA_ENV_39			Camera	62	534190	6455121	534188	6455116	2	5	5	-156	(Raw Nav, Kongsberg 14208, img#22) (B)
18-Apr-2023	22:44:09	2887	AA_ENV_39			Camera	62	534192	6455124	534188	6455116	4	8	9	-152	(Raw Nav, Kongsberg 14208, img#23) (B)
18-Apr-2023	22:44:26	2888	AA_ENV_39			Camera	62	534192	6455125	534188	6455116	4	9	10	-155	(Raw Nav, Kongsberg 14208, img#24) (B)
18-Apr-2023	22:44:43	2889	AA_ENV_39			Camera	62	534195	6455128	534188	6455116	7	12	14	-149	(Raw Nav, Kongsberg 14208, img#25) (B)
18-Apr-2023	22:44:51	2890	AA_ENV_39			Camera	62	534196	6455128	534188	6455116	8	12	14	-145	(Raw Nav, Kongsberg 14208, img#26) (B)
18-Apr-2023	22:45:05	2891	AA_ENV_39			Camera	62	534198	6455129	534188	6455116	10	13	16	-141	(Raw Nav, Kongsberg 14208, img#27) (B)
18-Apr-2023	22:45:31	2892	AA_ENV_39			Camera	62	534201	6455131	534188	6455116	13	15	20	-138	(Raw Nav, Kongsberg 14208, img#28) (B)
18-Apr-2023	22:45:51	2893	AA_ENV_39			Camera	62	534204	6455133	534188	6455116	16	17	23	-136	(Raw Nav, Kongsberg 14208, img#29) (B)
18-Apr-2023	22:46:17	2894	AA_ENV_39			Camera	62	534207	6455134	534188	6455116	19	18	26	-133	(Raw Nav, Kongsberg 14208, img#30) (B)
18-Apr-2023	22:46:39	2895	AA_ENV_39			Camera	62	534211	6455136	534188	6455116	23	20	30	-130	(Raw Nav, Kongsberg 14208, img#31) (B)
18-Apr-2023	22:46:50	2896	AA_ENV_39			Camera	62	534212	6455137	534188	6455116	24	21	32	-131	(Raw Nav, Kongsberg 14208, img#32) (B)
18-Apr-2023	22:47:04	2897	AA_ENV_39			Camera	62	534214	6455139	534188	6455116	26	23	35	-131	(Raw Nav, Kongsberg 14208, img#33) (B)
18-Apr-2023	22:47:15	2898	AA_ENV_39			Camera	62	534216	6455141	534188	6455116	28	25	37	-131	(Raw Nav, Kongsberg 14208, img#34) (B)
18-Apr-2023	22:47:28	2899	AA_ENV_39			Camera	62	534217	6455142	534188	6455116	29	26	39	-131	(Raw Nav, Kongsberg 14208, img#35) (B)
18-Apr-2023	22:47:36	2900	AA_ENV_39			Camera	62	534219	6455144	534188	6455116	31	28	42	-132	(Raw Nav, Kongsberg 14208, img#36) (B)
18-Apr-2023	22:47:49	2901	AA_ENV_39			Camera	62	534220	6455145	534188	6455116	32	29	43	-132	(Raw Nav, Kongsberg 14208, img#37) (B)
18-Apr-2023	22:48:04	2902	AA_ENV_39			Camera	62	534222	6455148	534188	6455116	34	32	47	-133	(Raw Nav, Kongsberg 14208, img#38) (B)
18-Apr-2023	22:48:18	2903	AA_ENV_39			Camera	62	534224	6455150	534188	6455116	36	34	49	-133	(Raw Nav, Kongsberg 14208, img#39) (B)
18-Apr-2023	23:32:52	2904	AA_ENV_08			Camera	56	532700	6456032	532737	6456073	-37	-42	56	42	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
18-Apr-2023	23:33:51	2905	AA_ENV_08			Camera	56	532702	6456033	532737	6456073	-34	-40	53	41	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
18-Apr-2023	23:34:02	2906	AA_ENV_08			Camera	56	532703	6456034	532737	6456073	-34	-39	52	41	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
18-Apr-2023	23:34:21	2907	AA_ENV_08			Camera	56	532705	6456035	532737	6456073	-31	-38	49	40	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
18-Apr-2023	23:34:52	2908	AA_ENV_08			Camera	56	532708	6456037	532737	6456073	-29	-36	46	39	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
18-Apr-2023	23:35:17	2909	AA_ENV_08			Camera	56	532711	6456039	532737	6456073	-26	-34	43	37	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
18-Apr-2023	23:35:33	2910	AA_ENV_08			Camera	56	532713	6456041	532737	6456073	-24	-32	40	37	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
18-Apr-2023	23:35:40	2911	AA_ENV_08			Camera	56	532713	6456042	532737	6456073	-24	-31	39	37	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
18-Apr-2023	23:36:16	2912	AA_ENV_08			Camera	56	532716	6456045	532737	6456073	-21	-28	34	37	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
18-Apr-2023	23:36:41	2913	AA_ENV_08			Camera	56	532716	6456048	532737	6456073	-20	-25	32	39	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																		
Job No	54463						Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks			
18-Apr-2023	23:36:53	2914	AA_ENV_08			Camera	56	Easting	532718	Northing	6456050	532737	6456073	-19	-23	30	39	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
18-Apr-2023	23:37:15	2915	AA_ENV_08			Camera	56	Easting	532720	Northing	6456052	532737	6456073	-17	-21	27	39	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
18-Apr-2023	23:37:30	2916	AA_ENV_08			Camera	56	Easting	532720	Northing	6456053	532737	6456073	-16	-21	26	39	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
18-Apr-2023	23:37:41	2917	AA_ENV_08			Camera	56	Easting	532721	Northing	6456054	532737	6456073	-16	-19	25	40	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
18-Apr-2023	23:38:04	2918	AA_ENV_08			Camera	56	Easting	532722	Northing	6456055	532737	6456073	-14	-18	23	38	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
18-Apr-2023	23:38:24	2919	AA_ENV_08			Camera	56	Easting	532724	Northing	6456056	532737	6456073	-13	-17	21	38	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
18-Apr-2023	23:38:50	2920	AA_ENV_08			Camera	56	Easting	532724	Northing	6456057	532737	6456073	-13	-16	20	38	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
18-Apr-2023	23:39:20	2921	AA_ENV_08			Camera	56	Easting	532725	Northing	6456058	532737	6456073	-12	-15	19	38	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
18-Apr-2023	23:39:47	2922	AA_ENV_08			Camera	56	Easting	532727	Northing	6456060	532737	6456073	-9	-13	16	36	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
18-Apr-2023	23:40:53	2923	AA_ENV_08			Camera	56	Easting	532731	Northing	6456063	532737	6456073	-5	-10	11	29	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
18-Apr-2023	23:41:17	2924	AA_ENV_08			Camera	56	Easting	532733	Northing	6456065	532737	6456073	-3	-8	8	24	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
18-Apr-2023	23:41:58	2925	AA_ENV_08			Camera	56	Easting	532737	Northing	6456071	532737	6456073	0	-2	2	-6	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
18-Apr-2023	23:42:10	2926	AA_ENV_08			Camera	56	Easting	532737	Northing	6456072	532737	6456073	1	-1	1	-47	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
18-Apr-2023	23:42:35	2927	AA_ENV_08			Camera	56	Easting	532739	Northing	6456076	532737	6456073	3	3	4	-132	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
18-Apr-2023	23:42:48	2928	AA_ENV_08			Camera	56	Easting	532741	Northing	6456077	532737	6456073	4	4	6	-135	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
18-Apr-2023	23:43:18	2929	AA_ENV_08			Camera	56	Easting	532743	Northing	6456081	532737	6456073	6	8	10	-142	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
18-Apr-2023	23:43:24	2930	AA_ENV_08			Camera	55	Easting	532743	Northing	6456082	532737	6456073	6	9	10	-144	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
18-Apr-2023	23:43:54	2931	AA_ENV_08			Camera	55	Easting	532745	Northing	6456085	532737	6456073	9	12	15	-143	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
18-Apr-2023	23:44:33	2932	AA_ENV_08			Camera	56	Easting	532747	Northing	6456089	532737	6456073	11	16	19	-146	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
18-Apr-2023	23:44:50	2933	AA_ENV_08			Camera	55	Easting	532749	Northing	6456089	532737	6456073	12	16	20	-143	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
18-Apr-2023	23:45:03	2934	AA_ENV_08			Camera	55	Easting	532750	Northing	6456091	532737	6456073	13	17	22	-143	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
18-Apr-2023	23:45:13	2935	AA_ENV_08			Camera	55	Easting	532750	Northing	6456091	532737	6456073	14	18	23	-143	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
18-Apr-2023	23:45:22	2936	AA_ENV_08			Camera	55	Easting	532752	Northing	6456091	532737	6456073	15	18	23	-140	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
18-Apr-2023	23:45:50	2937	AA_ENV_08			Camera	55	Easting	532752	Northing	6456094	532737	6456073	16	21	26	-143	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
18-Apr-2023	23:46:22	2938	AA_ENV_08			Camera	55	Easting	532755	Northing	6456095	532737	6456073	19	22	29	-140	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
18-Apr-2023	23:46:40	2939	AA_ENV_08			Camera	55	Easting	532758	Northing	6456097	532737	6456073	22	24	33	-138	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
18-Apr-2023	23:46:56	2940	AA_ENV_08			Camera	55	Easting	532761	Northing	6456100	532737	6456073	24	27	36	-138	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
18-Apr-2023	23:47:29	2941	AA_ENV_08			Camera	55	Easting	532764	Northing	6456104	532737	6456073	28	31	42	-138	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
18-Apr-2023	23:47:56	2942	AA_ENV_08			Camera	56	Easting	532767	Northing	6456108	532737	6456073	30	35	46	-139	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
18-Apr-2023	23:48:14	2943	AA_ENV_08			Camera	56	Easting	532767	Northing	6456110	532737	6456073	30	37	48	-141	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
19-Apr-2023	01:16:27	2944	AA_ENV_11			Camera	54	Easting	532487	Northing	6458681	532532	6458657	-45	25	51	119	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	01:17:06	2945	AA_ENV_11			Camera	54	Easting	532488	Northing	6458683	532532	6458657	-44	26	51	121	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	01:17:39	2946	AA_ENV_11			Camera	54	Easting	532488	Northing	6458683	532532	6458657	-44	26	51	121	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
19-Apr-2023	01:17:47	2947	AA_ENV_11			Camera	54	Easting	532489	Northing	6458682	532532	6458657	-43	26	50	121	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	01:18:01	2948	AA_ENV_11			Camera	54	Easting	532489	Northing	6458682	532532	6458657	-43	25	49	121	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	01:18:19	2949	AA_ENV_11			Camera	54	Easting	532490	Northing	6458680	532532	6458657	-42	24	48	120	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	01:18:31	2950	AA_ENV_11			Camera	54	Easting	532491	Northing	6458679	532532	6458657	-41	23	46	119	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
19-Apr-2023	01:18:40	2951	AA_ENV_11			Camera	54	532493	6458678	532532	6458657	-39	22	45	119		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	01:18:51	2952	AA_ENV_11			Camera	54	532494	6458678	532532	6458657	-38	21	43	119		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	01:18:59	2953	AA_ENV_11			Camera	54	532495	6458677	532532	6458657	-37	21	42	120		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	01:19:17	2954	AA_ENV_11			Camera	54	532497	6458677	532532	6458657	-35	20	40	120		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	01:19:28	2955	AA_ENV_11			Camera	54	532498	6458676	532532	6458657	-34	20	40	120		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	01:19:44	2956	AA_ENV_11			Camera	54	532499	6458675	532532	6458657	-33	19	38	120		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	01:20:11	2957	AA_ENV_11			Camera	54	532502	6458674	532532	6458657	-29	17	34	120		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	01:20:45	2958	AA_ENV_11			Camera	53	532507	6458672	532532	6458657	-25	15	30	121		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	01:21:15	2959	AA_ENV_11			Camera	54	532512	6458670	532532	6458657	-20	13	24	124		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	01:21:32	2960	AA_ENV_11			Camera	53	532514	6458669	532532	6458657	-18	13	22	126		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	01:21:39	2961	AA_ENV_11			Camera	53	532515	6458669	532532	6458657	-17	12	21	126		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
19-Apr-2023	01:22:38	2962	AA_ENV_11			Camera	53	532523	6458664	532532	6458657	-9	7	12	128		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	01:22:42	2963	AA_ENV_11			Camera	53	532523	6458664	532532	6458657	-9	7	11	128		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	01:23:10	2964	AA_ENV_11			Camera	53	532525	6458662	532532	6458657	-7	5	8	128		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	01:24:06	2965	AA_ENV_11			Camera	53	532532	6458658	532532	6458657	1	1	1	-150		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	01:24:43	2966	AA_ENV_11			Camera	53	532536	6458656	532532	6458657	4	0	4	-85		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	01:25:12	2967	AA_ENV_11			Camera	53	532538	6458655	532532	6458657	6	-1	6	-80		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	01:25:20	2968	AA_ENV_11			Camera	53	532538	6458655	532532	6458657	7	-1	7	-80		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	01:25:58	2969	AA_ENV_11			Camera	53	532542	6458653	532532	6458657	10	-4	11	-71		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	01:26:12	2970	AA_ENV_11			Camera	53	532544	6458652	532532	6458657	12	-4	13	-69		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	01:26:39	2971	AA_ENV_11			Camera	53	532546	6458651	532532	6458657	14	-5	15	-70		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
19-Apr-2023	01:27:16	2972	AA_ENV_11			Camera	53	532548	6458649	532532	6458657	17	-8	18	-65		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	01:27:49	2973	AA_ENV_11			Camera	53	532552	6458646	532532	6458657	20	-11	23	-62		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	01:28:10	2974	AA_ENV_11			Camera	53	532553	6458645	532532	6458657	22	-12	25	-61		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	01:29:11	2975	AA_ENV_11			Camera	54	532555	6458642	532532	6458657	23	-15	27	-58		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	01:29:23	2976	AA_ENV_11			Camera	54	532556	6458641	532532	6458657	24	-15	28	-58		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	01:29:33	2977	AA_ENV_11			Camera	54	532557	6458640	532532	6458657	25	-16	30	-57		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	01:30:04	2978	AA_ENV_11			Camera	54	532559	6458639	532532	6458657	28	-18	33	-57		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
19-Apr-2023	01:30:19	2979	AA_ENV_11			Camera	54	532561	6458638	532532	6458657	29	-19	34	-57		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	01:30:40	2980	AA_ENV_11			Camera	54	532563	6458637	532532	6458657	31	-20	37	-58		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	01:30:51	2981	AA_ENV_11			Camera	54	532564	6458636	532532	6458657	32	-20	38	-57		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	01:31:18	2982	AA_ENV_11			Camera	54	532567	6458635	532532	6458657	35	-22	41	-58		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	01:31:42	2983	AA_ENV_11			Camera	54	532569	6458634	532532	6458657	37	-23	43	-58		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
19-Apr-2023	01:32:07	2984	AA_ENV_11			Camera	54	532572	6458633	532532	6458657	40	-24	46	-59		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
19-Apr-2023	04:41:19	2985	AA_ENV_18			Camera	53	528853	6458677	528851	6458620	2	57	57	-178		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	04:42:31	2986	AA_ENV_18			Camera	54	528851	6458675	528851	6458620	0	56	56	-180		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	04:42:39	2987	AA_ENV_18			Camera	54	528851	6458675	528851	6458620	0	55	55	-180		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
19-Apr-2023	04:42:51	2988	AA_ENV_18			Camera	54	528851	6458674	528851	6458620	0	55	55	-180		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	04:43:03	2989	AA_ENV_18			Camera	54	528851	6458673	528851	6458620	0	54	53	-180		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	04:43:42	2990	AA_ENV_18			Camera	54	528853	6458668	528851	6458620	2	48	48	-178		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	04:43:56	2991	AA_ENV_18			Camera	54	528854	6458665	528851	6458620	3	46	46	-176		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
19-Apr-2023	04:44:22	2992	AA_ENV_18			Camera	54	528855	6458662	528851	6458620	4	42	42	-175		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	04:44:34	2993	AA_ENV_18			Camera	54	528855	6458660	528851	6458620	4	40	41	-174		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	04:44:44	2994	AA_ENV_18			Camera	54	528855	6458658	528851	6458620	4	39	39	-174		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	04:45:10	2995	AA_ENV_18			Camera	54	528855	6458655	528851	6458620	4	35	35	-173		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	04:45:21	2996	AA_ENV_18			Camera	54	528855	6458653	528851	6458620	4	33	33	-173		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	04:45:30	2997	AA_ENV_18			Camera	54	528855	6458651	528851	6458620	4	31	32	-172		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	04:45:38	2998	AA_ENV_18			Camera	54	528855	6458650	528851	6458620	4	30	31	-172		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	04:45:43	2999	AA_ENV_18			Camera	54	528855	6458649	528851	6458620	4	30	30	-172		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	04:45:57	3000	AA_ENV_18			Camera	54	528855	6458647	528851	6458620	4	27	28	-172		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	04:46:05	3001	AA_ENV_18			Camera	54	528855	6458646	528851	6458620	4	26	26	-172		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	04:46:25	3002	AA_ENV_18			Camera	54	528854	6458642	528851	6458620	3	23	23	-172		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
19-Apr-2023	04:46:42	3003	AA_ENV_18			Camera	53	528854	6458640	528851	6458620	4	21	21	-170		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	04:46:57	3004	AA_ENV_18			Camera	53	528853	6458638	528851	6458620	2	19	19	-174		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	04:47:06	3005	AA_ENV_18			Camera	53	528853	6458637	528851	6458620	2	17	18	-174		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	04:47:26	3006	AA_ENV_18			Camera	53	528852	6458634	528851	6458620	1	14	14	-174		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	04:47:49	3007	AA_ENV_18			Camera	53	528852	6458630	528851	6458620	1	11	11	-175		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	04:47:55	3008	AA_ENV_18			Camera	53	528852	6458630	528851	6458620	1	10	10	-175		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	04:48:21	3009	AA_ENV_18			Camera	53	528852	6458626	528851	6458620	1	6	6	-168		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	04:48:34	3010	AA_ENV_18			Camera	54	528852	6458624	528851	6458620	1	4	4	-163		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	04:49:00	3011	AA_ENV_18			Camera	54	528853	6458620	528851	6458620	2	0	2	-90		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	04:49:18	3012	AA_ENV_18			Camera	54	528853	6458616	528851	6458620	2	-3	4	-30		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
19-Apr-2023	04:49:23	3013	AA_ENV_18			Camera	54	528853	6458616	528851	6458620	2	-4	4	-27		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	04:50:16	3014	AA_ENV_18			Camera	54	528853	6458606	528851	6458620	2	-13	13	-10		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	04:50:28	3015	AA_ENV_18			Camera	54	528853	6458605	528851	6458620	2	-15	15	-9		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	04:50:33	3016	AA_ENV_18			Camera	54	528853	6458604	528851	6458620	3	-16	16	-10		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	04:50:44	3017	AA_ENV_18			Camera	54	528854	6458602	528851	6458620	3	-18	18	-9		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	04:51:07	3018	AA_ENV_18			Camera	54	528854	6458599	528851	6458620	4	-21	21	-10		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	04:51:19	3019	AA_ENV_18			Camera	54	528855	6458597	528851	6458620	5	-23	23	-11		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
19-Apr-2023	04:51:34	3020	AA_ENV_18			Camera	55	528856	6458594	528851	6458620	5	-25	26	-11		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	04:51:54	3021	AA_ENV_18			Camera	54	528856	6458591	528851	6458620	6	-28	29	-11		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	04:52:15	3022	AA_ENV_18			Camera	54	528857	6458588	528851	6458620	6	-31	32	-11		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	04:52:55	3023	AA_ENV_18			Camera	54	528857	6458583	528851	6458620	7	-36	37	-10		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	04:53:18	3024	AA_ENV_18			Camera	54	528858	6458580	528851	6458620	7	-40	40	-10		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
19-Apr-2023	04:53:43	3025	AA_ENV_18			Camera	54	528858	6458575	528851	6458620	8	-44	45	-10	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
19-Apr-2023	04:54:04	3026	AA_ENV_18			Camera	54	528860	6458573	528851	6458620	9	-47	47	-11	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
19-Apr-2023	07:13:32	3027	AA_ENV_13			Camera	49	526656	6463741	526674	6463794	-18	-53	56	19	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	07:13:59	3028	AA_ENV_13			Camera	49	526655	6463742	526674	6463794	-19	-52	56	20	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	07:14:15	3029	AA_ENV_13			Camera	49	526655	6463742	526674	6463794	-19	-52	55	20	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
19-Apr-2023	07:14:25	3030	AA_ENV_13			Camera	49	526657	6463742	526674	6463794	-18	-52	55	19	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	07:14:32	3031	AA_ENV_13			Camera	49	526656	6463743	526674	6463794	-18	-51	54	19	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	07:14:49	3032	AA_ENV_13			Camera	49	526656	6463745	526674	6463794	-18	-49	52	20	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	07:15:03	3033	AA_ENV_13			Camera	49	526657	6463746	526674	6463794	-17	-48	51	20	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
19-Apr-2023	07:15:24	3034	AA_ENV_13			Camera	49	526658	6463748	526674	6463794	-16	-46	48	20	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	07:15:39	3035	AA_ENV_13			Camera	49	526659	6463751	526674	6463794	-15	-44	46	19	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	07:15:54	3036	AA_ENV_13			Camera	49	526660	6463753	526674	6463794	-14	-42	44	19	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	07:16:14	3037	AA_ENV_13			Camera	49	526661	6463755	526674	6463794	-13	-39	41	19	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	07:16:38	3038	AA_ENV_13			Camera	49	526663	6463757	526674	6463794	-11	-37	38	17	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	07:16:52	3039	AA_ENV_13			Camera	49	526664	6463759	526674	6463794	-10	-35	37	16	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	07:17:07	3040	AA_ENV_13			Camera	49	526666	6463760	526674	6463794	-9	-34	35	14	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	07:17:15	3041	AA_ENV_13			Camera	49	526667	6463761	526674	6463794	-7	-33	34	13	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	07:17:31	3042	AA_ENV_13			Camera	49	526668	6463762	526674	6463794	-6	-32	32	11	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	07:17:42	3043	AA_ENV_13			Camera	49	526669	6463764	526674	6463794	-5	-31	31	10	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	07:18:09	3044	AA_ENV_13			Camera	49	526671	6463768	526674	6463794	-4	-26	27	8	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
19-Apr-2023	07:18:27	3045	AA_ENV_13			Camera	49	526672	6463771	526674	6463794	-3	-23	23	7	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	07:18:51	3046	AA_ENV_13			Camera	49	526672	6463775	526674	6463794	-2	-20	20	6	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	07:19:42	3047	AA_ENV_13			Camera	49	526672	6463783	526674	6463794	-3	-11	11	15	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	07:19:49	3048	AA_ENV_13			Camera	49	526671	6463785	526674	6463794	-3	-9	10	19	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	07:20:00	3049	AA_ENV_13			Camera	49	526673	6463786	526674	6463794	-2	-8	9	10	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	07:20:16	3050	AA_ENV_13			Camera	49	526673	6463789	526674	6463794	-2	-5	5	20	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	07:20:25	3051	AA_ENV_13			Camera	49	526674	6463790	526674	6463794	0	-5	5	6	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	07:20:42	3052	AA_ENV_13			Camera	49	526674	6463792	526674	6463794	-1	-2	2	13	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	07:20:54	3053	AA_ENV_13			Camera	49	526675	6463793	526674	6463794	0	-1	1	-2	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	07:21:35	3054	AA_ENV_13			Camera	49	526677	6463796	526674	6463794	3	2	3	-131	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
19-Apr-2023	07:21:53	3055	AA_ENV_13			Camera	49	526678	6463799	526674	6463794	3	5	6	-143	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	07:22:11	3056	AA_ENV_13			Camera	49	526679	6463801	526674	6463794	5	7	8	-145	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	07:22:30	3057	AA_ENV_13			Camera	49	526681	6463803	526674	6463794	6	9	11	-146	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	07:22:49	3058	AA_ENV_13			Camera	49	526682	6463806	526674	6463794	8	11	14	-145	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	07:23:10	3059	AA_ENV_13			Camera	49	526684	6463808	526674	6463794	10	14	17	-146	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	07:23:44	3060	AA_ENV_13			Camera	49	526687	6463813	526674	6463794	13	19	23	-145	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	07:23:56	3061	AA_ENV_13			Camera	49	526689	6463815	526674	6463794	14	21	25	-146	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
19-Apr-2023	07:24:08	3062	AA_ENV_13			Camera	49	Easting	Northing	Easting	Northing	dE	dN	Range	Bearing		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	07:24:21	3063	AA_ENV_13			Camera	49	526691	6463818	526674	6463794	17	24	29	-145		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	07:24:30	3064	AA_ENV_13			Camera	49	526692	6463819	526674	6463794	18	25	30	-144		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	07:24:44	3065	AA_ENV_13			Camera	49	526693	6463821	526674	6463794	18	27	32	-146		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	07:25:03	3066	AA_ENV_13			Camera	49	526695	6463823	526674	6463794	21	29	35	-144		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
19-Apr-2023	07:25:23	3067	AA_ENV_13			Camera	49	526697	6463825	526674	6463794	23	31	39	-144		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
19-Apr-2023	07:25:33	3068	AA_ENV_13			Camera	49	526698	6463826	526674	6463794	24	32	40	-144		(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
19-Apr-2023	07:25:42	3069	AA_ENV_13			Camera	49	526700	6463827	526674	6463794	25	33	42	-143		(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
19-Apr-2023	07:25:58	3070	AA_ENV_13			Camera	49	526701	6463830	526674	6463794	26	36	45	-144		(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
19-Apr-2023	08:36:30	3071	AA_ENV_37			Camera	50	527217	6462090	527224	6462147	-7	-57	57	7		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	08:37:18	3072	AA_ENV_37			Camera	50	527219	6462095	527224	6462147	-6	-52	52	6		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	08:38:27	3073	AA_ENV_37			Camera	50	527221	6462105	527224	6462147	-3	-41	42	5		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
19-Apr-2023	08:38:38	3074	AA_ENV_37			Camera	50	527222	6462107	527224	6462147	-3	-40	40	4		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	08:39:07	3075	AA_ENV_37			Camera	50	527222	6462112	527224	6462147	-2	-34	34	4		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	08:39:14	3076	AA_ENV_37			Camera	50	527222	6462113	527224	6462147	-2	-33	33	4		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	08:39:23	3077	AA_ENV_37			Camera	50	527222	6462115	527224	6462147	-2	-32	32	4		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
19-Apr-2023	08:39:25	3078	AA_ENV_37			Camera	50	527222	6462115	527224	6462147	-2	-32	32	4		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	08:39:45	3079	AA_ENV_37			Camera	50	527222	6462118	527224	6462147	-2	-29	29	5		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	08:39:51	3080	AA_ENV_37			Camera	50	527222	6462119	527224	6462147	-2	-28	28	5		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	08:39:57	3081	AA_ENV_37			Camera	50	527222	6462119	527224	6462147	-2	-27	27	5		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	08:40:11	3082	AA_ENV_37			Camera	50	527222	6462122	527224	6462147	-2	-25	25	5		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	08:40:26	3083	AA_ENV_37			Camera	50	527222	6462124	527224	6462147	-2	-23	23	6		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	08:40:32	3084	AA_ENV_37			Camera	50	527222	6462125	527224	6462147	-2	-22	22	7		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	08:40:38	3085	AA_ENV_37			Camera	50	527222	6462126	527224	6462147	-2	-20	20	6		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	08:40:44	3086	AA_ENV_37			Camera	50	527222	6462127	527224	6462147	-2	-20	20	7		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	08:40:46	3087	AA_ENV_37			Camera	50	527222	6462128	527224	6462147	-3	-19	19	8		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	08:40:55	3088	AA_ENV_37			Camera	50	527222	6462129	527224	6462147	-2	-18	18	8		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
19-Apr-2023	08:41:04	3089	AA_ENV_37			Camera	50	527222	6462130	527224	6462147	-2	-16	17	9		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	08:41:10	3090	AA_ENV_37			Camera	50	527222	6462131	527224	6462147	-2	-15	15	8		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	08:41:31	3091	AA_ENV_37			Camera	50	527222	6462134	527224	6462147	-2	-13	13	10		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	08:41:57	3092	AA_ENV_37			Camera	50	527223	6462136	527224	6462147	-1	-10	10	7		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	08:42:06	3093	AA_ENV_37			Camera	50	527224	6462138	527224	6462147	0	-9	9	1		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	08:42:19	3094	AA_ENV_37			Camera	50	527225	6462139	527224	6462147	1	-8	8	-5		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	08:42:36	3095	AA_ENV_37			Camera	50	527226	6462141	527224	6462147	1	-5	5	-16		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	08:42:45	3096	AA_ENV_37			Camera	50	527227	6462142	527224	6462147	2	-4	5	-27		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	08:43:21	3097	AA_ENV_37			Camera	50	527227	6462148	527224	6462147	2	1	2	-118		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	08:43:30	3098	AA_ENV_37			Camera	50	527226	6462149	527224	6462147	2	2	3	-135		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463					Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
19-Apr-2023	08:43:50	3099	AA_ENV_37			Camera	50	527225	6462151	527224	6462147	0	5	5	-175		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	08:44:10	3100	AA_ENV_37			Camera	50	527222	6462154	527224	6462147	-3	7	7	159		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	08:44:29	3101	AA_ENV_37			Camera	50	527220	6462157	527224	6462147	-4	10	11	157		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	08:44:39	3102	AA_ENV_37			Camera	50	527219	6462158	527224	6462147	-5	12	13	156		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	08:45:05	3103	AA_ENV_37			Camera	50	527217	6462163	527224	6462147	-7	16	18	156		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	08:45:13	3104	AA_ENV_37			Camera	50	527217	6462164	527224	6462147	-7	18	19	157		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	08:45:24	3105	AA_ENV_37			Camera	50	527217	6462166	527224	6462147	-8	19	21	158		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
19-Apr-2023	08:45:49	3106	AA_ENV_37			Camera	50	527216	6462170	527224	6462147	-8	23	25	161		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	08:45:55	3107	AA_ENV_37			Camera	50	527217	6462171	527224	6462147	-8	24	26	163		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	08:46:05	3108	AA_ENV_37			Camera	50	527217	6462173	527224	6462147	-7	26	27	164		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	08:46:23	3109	AA_ENV_37			Camera	50	527218	6462175	527224	6462147	-6	28	29	168		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	08:46:31	3110	AA_ENV_37			Camera	50	527218	6462176	527224	6462147	-6	29	30	168		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
19-Apr-2023	08:46:53	3111	AA_ENV_37			Camera	50	527220	6462179	527224	6462147	-5	33	33	172		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
19-Apr-2023	08:47:16	3112	AA_ENV_37			Camera	50	527221	6462184	527224	6462147	-3	37	37	175		(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
19-Apr-2023	08:47:25	3113	AA_ENV_37			Camera	50	527222	6462185	527224	6462147	-2	39	39	176		(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
19-Apr-2023	08:47:48	3114	AA_ENV_37			Camera	50	527223	6462190	527224	6462147	-2	43	43	178		(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
19-Apr-2023	08:48:00	3115	AA_ENV_37			Camera	50	527223	6462192	527224	6462147	-1	46	46	179		(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
19-Apr-2023	08:48:11	3116	AA_ENV_37			Camera	50	527224	6462194	527224	6462147	0	48	48	180		(Corr'd Nav, Kongsberg 14208, img#46) (B) (T.A)
19-Apr-2023	08:48:31	3117	AA_ENV_37			Camera	50	527224	6462198	527224	6462147	0	51	51	180		(Corr'd Nav, Kongsberg 14208, img#47) (B) (T.A)
19-Apr-2023	09:28:57	3118	AA_ENV_31			Camera	50	525972	6460667	525974	6460723	-2	-56	56	2		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	09:29:11	3119	AA_ENV_31			Camera	50	525972	6460668	525974	6460723	-2	-55	55	2		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	09:30:01	3120	AA_ENV_31			Camera	50	525974	6460671	525974	6460723	0	-52	52	0		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
19-Apr-2023	09:30:15	3121	AA_ENV_31			Camera	50	525976	6460673	525974	6460723	2	-50	50	-2		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	09:30:23	3122	AA_ENV_31			Camera	50	525976	6460675	525974	6460723	2	-48	48	-2		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	09:31:00	3123	AA_ENV_31			Camera	50	525978	6460681	525974	6460723	3	-42	42	-5		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	09:31:08	3124	AA_ENV_31			Camera	50	525978	6460683	525974	6460723	3	-39	39	-5		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
19-Apr-2023	09:31:50	3125	AA_ENV_31			Camera	52	525976	6460691	525974	6460723	2	-32	32	-3		(Raw Nav, Kongsberg 14208, img#8) (B)
19-Apr-2023	09:31:56	3125a	AA_ENV_31			Camera	50	525975	6460692	525974	6460723	1	-30	30	-2		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A) #Double Fix
19-Apr-2023	09:32:32	3126	AA_ENV_31			Camera	50	525973	6460695	525974	6460723	-2	-28	28	3		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	09:33:06	3127	AA_ENV_31			Camera	50	525971	6460694	525974	6460723	-4	-28	28	7		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	09:33:45	3128	AA_ENV_31			Camera	50	525970	6460695	525974	6460723	-5	-28	28	10		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	09:34:09	3129	AA_ENV_31			Camera	50	525970	6460696	525974	6460723	-5	-27	27	10		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	09:34:32	3130	AA_ENV_31			Camera	50	525970	6460699	525974	6460723	-4	-24	24	10		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	09:34:41	3131	AA_ENV_31			Camera	50	525971	6460700	525974	6460723	-4	-23	23	10		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	09:35:01	3132	AA_ENV_31			Camera	50	525971	6460703	525974	6460723	-3	-20	20	10		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	09:35:22	3133	AA_ENV_31			Camera	50	525971	6460707	525974	6460723	-3	-16	16	12		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	09:35:46	3134	AA_ENV_31			Camera	50	525971	6460710	525974	6460723	-3	-12	13	16		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
19-Apr-2023	09:35:57	3135	AA_ENV_31			Camera	50	525971	6460712	525974	6460723	-3	-11	11	18	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	09:36:06	3136	AA_ENV_31			Camera	50	525971	6460713	525974	6460723	-3	-9	10	20	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	09:36:18	3137	AA_ENV_31			Camera	50	525971	6460715	525974	6460723	-3	-8	8	22	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	09:36:26	3138	AA_ENV_31			Camera	50	525972	6460717	525974	6460723	-2	-6	6	22	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	09:36:32	3139	AA_ENV_31			Camera	50	525972	6460718	525974	6460723	-3	-5	5	30	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	09:36:37	3140	AA_ENV_31			Camera	50	525972	6460719	525974	6460723	-2	-4	5	29	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	09:36:44	3141	AA_ENV_31			Camera	50	525972	6460720	525974	6460723	-2	-3	4	39	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	09:37:16	3142	AA_ENV_31			Camera	50	525975	6460724	525974	6460723	0	2	2	-165	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	09:37:27	3143	AA_ENV_31			Camera	50	525976	6460726	525974	6460723	2	3	4	-151	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	09:37:40	3144	AA_ENV_31			Camera	50	525977	6460728	525974	6460723	3	5	6	-153	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
19-Apr-2023	09:37:50	3145	AA_ENV_31			Camera	50	525977	6460729	525974	6460723	3	7	7	-157	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	09:38:13	3146	AA_ENV_31			Camera	50	525977	6460733	525974	6460723	3	11	11	-165	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	09:38:23	3147	AA_ENV_31			Camera	50	525977	6460735	525974	6460723	3	12	12	-166	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	09:39:02	3148	AA_ENV_31			Camera	50	525974	6460741	525974	6460723	0	18	18	180	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	09:39:13	3149	AA_ENV_31			Camera	50	525973	6460743	525974	6460723	-2	20	20	175	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	09:39:41	3150	AA_ENV_31			Camera	50	525970	6460749	525974	6460723	-4	26	26	171	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	09:39:56	3151	AA_ENV_31			Camera	50	525969	6460751	525974	6460723	-5	29	29	170	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
19-Apr-2023	09:40:13	3152	AA_ENV_31			Camera	50	525968	6460755	525974	6460723	-7	32	33	168	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	09:40:21	3153	AA_ENV_31			Camera	50	525967	6460756	525974	6460723	-7	33	34	168	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	09:40:36	3154	AA_ENV_31			Camera	50	525967	6460758	525974	6460723	-8	36	36	168	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	09:40:47	3155	AA_ENV_31			Camera	50	525966	6460760	525974	6460723	-8	37	38	168	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	09:40:51	3156	AA_ENV_31			Camera	50	525966	6460761	525974	6460723	-8	38	39	168	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
19-Apr-2023	09:41:02	3157	AA_ENV_31			Camera	50	525966	6460762	525974	6460723	-8	40	40	168	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
19-Apr-2023	09:41:17	3158	AA_ENV_31			Camera	50	525966	6460764	525974	6460723	-8	42	42	169	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
19-Apr-2023	09:41:24	3159	AA_ENV_31			Camera	50	525966	6460766	525974	6460723	-8	43	44	169	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
19-Apr-2023	09:41:41	3160	AA_ENV_31			Camera	50	525967	6460768	525974	6460723	-8	45	46	170	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
19-Apr-2023	11:00:35	3161	AA_ENV_03			Camera	54	523378	6459827	523393	6459876	-15	-48	51	17	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	11:00:45	3162	AA_ENV_03			Camera	54	523379	6459827	523393	6459876	-14	-49	51	15	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	11:00:59	3163	AA_ENV_03			Camera	54	523381	6459828	523393	6459876	-12	-47	49	15	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
19-Apr-2023	11:01:13	3164	AA_ENV_03			Camera	55	523382	6459830	523393	6459876	-11	-45	46	13	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	11:01:28	3165	AA_ENV_03			Camera	54	523383	6459832	523393	6459876	-9	-43	44	12	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	11:01:49	3166	AA_ENV_03			Camera	54	523385	6459835	523393	6459876	-8	-41	41	11	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	11:02:00	3167	AA_ENV_03			Camera	54	523386	6459836	523393	6459876	-6	-40	40	9	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
19-Apr-2023	11:02:21	3168	AA_ENV_03			Camera	54	523388	6459839	523393	6459876	-5	-37	37	8	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	11:02:32	3169	AA_ENV_03			Camera	54	523388	6459842	523393	6459876	-5	-34	34	8	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	11:02:54	3170	AA_ENV_03			Camera	54	523388	6459845	523393	6459876	-5	-31	31	9	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	11:03:19	3171	AA_ENV_03			Camera	54	523388	6459848	523393	6459876	-5	-27	28	10	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No		Vessel					MV Ocean Endeavour										
Client		Vessel Reference Point (VRP)					COG										
Project Name		Deployment Location					Camera Deployment Node			x	6.7	y	21.94	z	2.93		
Primary Positioning System		Actual Coordinates derived from					Vessel or Beacon										
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks	
19-Apr-2023	11:05:06	3172	AA_ENV_03			Camera	54	Easting	Northing	Easting	Northing	dE	dN	Range	Bearing		
19-Apr-2023	11:05:33	3173	AA_ENV_03			Camera	54	523390	6459856	523393	6459876	-3	-20	20	7	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)	
19-Apr-2023	11:06:05	3174	AA_ENV_03			Camera	54	523390	6459860	523393	6459876	-2	-16	16	9	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)	
19-Apr-2023	11:06:25	3175	AA_ENV_03			Camera	55	523392	6459868	523393	6459876	-1	-8	8	9	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)	
19-Apr-2023	11:06:33	3176	AA_ENV_03			Camera	55	523391	6459870	523393	6459876	-2	-6	6	17	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)	
19-Apr-2023	11:06:48	3177	AA_ENV_03			Camera	54	523390	6459872	523393	6459876	-3	-4	5	35	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)	
19-Apr-2023	11:07:03	3178	AA_ENV_03			Camera	55	523393	6459873	523393	6459876	0	-3	3	4	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)	
19-Apr-2023	11:07:11	3179	AA_ENV_03			Camera	55	523391	6459876	523393	6459876	-2	0	2	92	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)	
19-Apr-2023	11:07:24	3180	AA_ENV_03			Camera	55	523392	6459875	523393	6459876	-1	0	1	72	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)	
19-Apr-2023	11:07:43	3181	AA_ENV_03			Camera	55	523392	6459879	523393	6459876	-1	3	3	162	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)	
19-Apr-2023	11:08:29	3182	AA_ENV_03			Camera	55	523393	6459882	523393	6459876	0	6	6	-178	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)	
19-Apr-2023	11:08:37	3183	AA_ENV_03			Camera	55	523395	6459880	523393	6459876	2	4	5	-158	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)	
19-Apr-2023	11:08:51	3184	AA_ENV_03			Camera	55	523394	6459883	523393	6459876	2	7	7	-168	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)	
19-Apr-2023	11:09:03	3185	AA_ENV_03			Camera	55	523395	6459884	523393	6459876	3	8	8	-162	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)	
19-Apr-2023	11:09:22	3186	AA_ENV_03			Camera	55	523397	6459885	523393	6459876	4	9	10	-158	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)	
19-Apr-2023	11:09:37	3187	AA_ENV_03			Camera	55	523396	6459887	523393	6459876	3	11	12	-163	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)	
19-Apr-2023	11:09:49	3188	AA_ENV_03			Camera	55	523396	6459888	523393	6459876	4	13	13	-164	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)	
19-Apr-2023	11:10:19	3189	AA_ENV_03			Camera	55	523396	6459890	523393	6459876	4	14	15	-166	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)	
19-Apr-2023	11:10:48	3190	AA_ENV_03			Camera	55	523396	6459893	523393	6459876	3	17	17	-170	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)	
19-Apr-2023	11:11:07	3191	AA_ENV_03			Camera	55	523396	6459895	523393	6459876	3	19	19	-171	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)	
19-Apr-2023	11:11:37	3192	AA_ENV_03			Camera	55	523396	6459898	523393	6459876	3	23	23	-171	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)	
19-Apr-2023	11:12:05	3193	AA_ENV_03			Camera	55	523396	6459903	523393	6459876	4	27	27	-172	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)	
19-Apr-2023	11:12:15	3194	AA_ENV_03			Camera	55	523397	6459904	523393	6459876	4	28	28	-172	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)	
19-Apr-2023	11:12:35	3195	AA_ENV_03			Camera	55	523396	6459907	523393	6459876	3	32	32	-174	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)	
19-Apr-2023	11:12:55	3196	AA_ENV_03			Camera	55	523396	6459910	523393	6459876	3	34	34	-175	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)	
19-Apr-2023	11:13:14	3197	AA_ENV_03			Camera	55	523395	6459913	523393	6459876	3	37	37	-176	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)	
19-Apr-2023	11:13:29	3198	AA_ENV_03			Camera	55	523395	6459915	523393	6459876	2	39	39	-177	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)	
19-Apr-2023	11:13:52	3199	AA_ENV_03			Camera	55	523395	6459918	523393	6459876	2	42	42	-177	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)	
19-Apr-2023	11:14:15	3200	AA_ENV_03			Camera	55	523394	6459921	523393	6459876	2	45	45	-178	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)	
19-Apr-2023	11:14:43	3201	AA_ENV_03			Camera	55	523394	6459923	523393	6459876	2	47	47	-178	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)	
19-Apr-2023	12:24:10	3202	AA_ENV_04			Camera	53	520893	6459430	520938	6459461	-45	-31	54	55	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)	
19-Apr-2023	12:24:33	3203	AA_ENV_04			Camera	53	520893	6459431	520938	6459461	-44	-30	53	56	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)	
19-Apr-2023	12:24:54	3204	AA_ENV_04			Camera	53	520894	6459432	520938	6459461	-43	-28	52	57	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)	
19-Apr-2023	12:25:03	3205	AA_ENV_04			Camera	53	520896	6459434	520938	6459461	-42	-27	49	57	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)	
19-Apr-2023	12:25:25	3206	AA_ENV_04			Camera	53	520899	6459436	520938	6459461	-39	-25	46	57	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)	
19-Apr-2023	12:26:41	3207	AA_ENV_04			Camera	53	520905	6459442	520938	6459461	-32	-19	37	60	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)	
19-Apr-2023	12:27:10	3208	AA_ENV_04			Camera	53	520903	6459442	520938	6459461	-35	-19	39	62	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)	
# No photo taken																	

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																		
Job No	54463						Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks			
19-Apr-2023	12:27:52	3209	AA_ENV_04			Camera	53	Easting	520904	Northing	6459443	520938	dE	-34	-18	39	62	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	12:28:19	3210	AA_ENV_04			Camera	53	Easting	520906	Northing	6459443	520938	dE	-32	-18	37	61	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	12:28:46	3211	AA_ENV_04			Camera	53	Easting	520909	Northing	6459444	520938	dE	-29	-17	34	60	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	12:29:08	3212	AA_ENV_04			Camera	53	Easting	520911	Northing	6459445	520938	dE	-27	-16	31	60	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	12:29:17	3213	AA_ENV_04			Camera	53	Easting	520912	Northing	6459446	520938	dE	-25	-15	30	59	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	12:29:57	3214	AA_ENV_04			Camera	53	Easting	520917	Northing	6459448	520938	dE	-21	-13	24	59	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	12:30:36	3215	AA_ENV_04			Camera	53	Easting	520921	Northing	6459452	520938	dE	-17	-9	19	62	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	12:31:05	3216	AA_ENV_04			Camera	53	Easting	520922	Northing	6459454	520938	dE	-15	-7	17	65	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	12:31:22	3217	AA_ENV_04			Camera	53	Easting	520924	Northing	6459455	520938	dE	-14	-6	15	67	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	12:32:10	3218	AA_ENV_04			Camera	53	Easting	520928	Northing	6459457	520938	dE	-10	-4	11	67	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	12:32:22	3219	AA_ENV_04			Camera	53	Easting	520930	Northing	6459457	520938	dE	-8	-4	9	64	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
19-Apr-2023	12:32:56	3220	AA_ENV_04			Camera	53	Easting	520932	Northing	6459458	520938	dE	-5	-3	6	59	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	12:33:11	3221	AA_ENV_04			Camera	53	Easting	520933	Northing	6459458	520938	dE	-4	-3	5	53	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	12:33:23	3222	AA_ENV_04			Camera	53	Easting	520935	Northing	6459458	520938	dE	-3	-3	4	49	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	12:33:34	3223	AA_ENV_04			Camera	53	Easting	520936	Northing	6459459	520938	dE	-2	-2	3	37	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	12:33:47	3224	AA_ENV_04			Camera	53	Easting	520937	Northing	6459459	520938	dE	0	-2	2	8	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	12:33:56	3225	AA_ENV_04			Camera	53	Easting	520938	Northing	6459460	520938	dE	1	-1	1	-44	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	12:34:12	3226	AA_ENV_04			Camera	53	Easting	520941	Northing	6459461	520938	dE	3	0	3	-84	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	12:34:23	3227	AA_ENV_04			Camera	53	Easting	520943	Northing	6459461	520938	dE	5	0	5	-92	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	12:34:43	3228	AA_ENV_04			Camera	53	Easting	520945	Northing	6459462	520938	dE	7	1	7	-95	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	12:35:04	3229	AA_ENV_04			Camera	53	Easting	520947	Northing	6459462	520938	dE	9	1	9	-97	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
19-Apr-2023	12:35:30	3230	AA_ENV_04			Camera	53	Easting	520950	Northing	6459463	520938	dE	12	2	12	-99	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	12:35:46	3231	AA_ENV_04			Camera	53	Easting	520952	Northing	6459463	520938	dE	15	2	15	-100	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	12:35:56	3232	AA_ENV_04			Camera	53	Easting	520953	Northing	6459464	520938	dE	16	3	16	-101	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	12:36:18	3233	AA_ENV_04			Camera	53	Easting	520957	Northing	6459465	520938	dE	19	5	19	-104	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	12:36:24	3234	AA_ENV_04			Camera	53	Easting	520957	Northing	6459466	520938	dE	20	5	20	-104	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	12:36:41	3235	AA_ENV_04			Camera	53	Easting	520960	Northing	6459467	520938	dE	23	6	23	-105	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	12:37:02	3236	AA_ENV_04			Camera	53	Easting	520963	Northing	6459468	520938	dE	25	7	26	-106	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
19-Apr-2023	12:37:25	3237	AA_ENV_04			Camera	53	Easting	520966	Northing	6459470	520938	dE	28	9	29	-108	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	12:37:57	3238	AA_ENV_04			Camera	53	Easting	520969	Northing	6459472	520938	dE	32	11	34	-109	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	12:38:10	3239	AA_ENV_04			Camera	53	Easting	520971	Northing	6459473	520938	dE	33	12	35	-110	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	12:38:23	3240	AA_ENV_04			Camera	53	Easting	520972	Northing	6459473	520938	dE	34	13	37	-110	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	12:39:16	3241	AA_ENV_04			Camera	53	Easting	520978	Northing	6459478	520938	dE	40	18	44	-114	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
19-Apr-2023	12:40:01	3242	AA_ENV_04			Camera	53	Easting	520981	Northing	6459482	520938	dE	43	21	48	-116	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
19-Apr-2023	15:15:49	3243	AA_ENV_35			Camera	54	Easting	521375	Northing	6462947	521411	dE	-36	44	56	141	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
19-Apr-2023	15:17:02	3244	AA_ENV_35			Camera	54	Easting	521379	Northing	6462942	521411	dE	-32	39	50	141	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
19-Apr-2023	15:17:29	3245	AA_ENV_35			Camera	54	Easting	521380	Northing	6462941	521411	dE	-31	38	49	141	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN			Range
19-Apr-2023	15:18:03	3246	AA_ENV_35			Camera	54	521381	6462939	521411	6462903	-30	36	47	141	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
19-Apr-2023	15:18:29	3247	AA_ENV_35			Camera	54	521382	6462938	521411	6462903	-28	35	45	141	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
19-Apr-2023	15:18:50	3248	AA_ENV_35			Camera	54	521384	6462937	521411	6462903	-27	34	44	142	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
19-Apr-2023	15:19:00	3249	AA_ENV_35			Camera	54	521384	6462936	521411	6462903	-27	33	43	141	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
19-Apr-2023	15:19:29	3250	AA_ENV_35			Camera	54	521386	6462935	521411	6462903	-25	32	40	142	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
19-Apr-2023	15:20:22	3251	AA_ENV_35			Camera	54	521388	6462932	521411	6462903	-23	29	37	142	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
19-Apr-2023	15:21:03	3252	AA_ENV_35			Camera	54	521390	6462929	521411	6462903	-20	26	33	142	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
19-Apr-2023	15:21:40	3253	AA_ENV_35			Camera	53	521394	6462926	521411	6462903	-16	23	28	145	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
19-Apr-2023	15:22:16	3254	AA_ENV_35			Camera	53	521398	6462923	521411	6462903	-13	20	23	147	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
19-Apr-2023	15:22:45	3255	AA_ENV_35			Camera	53	521400	6462920	521411	6462903	-11	17	20	148	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
19-Apr-2023	15:23:28	3256	AA_ENV_35			Camera	53	521403	6462917	521411	6462903	-7	14	16	153	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
19-Apr-2023	15:23:42	3257	AA_ENV_35			Camera	53	521405	6462917	521411	6462903	-6	14	15	157	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
19-Apr-2023	15:24:04	3258	AA_ENV_35			Camera	53	521407	6462915	521411	6462903	-3	12	13	164	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
19-Apr-2023	15:24:37	3259	AA_ENV_35			Camera	53	521411	6462912	521411	6462903	0	9	9	-179	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
19-Apr-2023	15:25:03	3260	AA_ENV_35			Camera	53	521412	6462910	521411	6462903	1	7	8	-170	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
19-Apr-2023	15:25:16	3261	AA_ENV_35			Camera	53	521413	6462910	521411	6462903	2	7	7	-161	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
19-Apr-2023	15:25:32	3262	AA_ENV_35			Camera	53	521415	6462909	521411	6462903	4	6	7	-146	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
19-Apr-2023	15:25:54	3263	AA_ENV_35			Camera	53	521417	6462908	521411	6462903	6	5	8	-129	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
19-Apr-2023	15:26:13	3264	AA_ENV_35			Camera	53	521418	6462907	521411	6462903	8	4	9	-115	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
19-Apr-2023	15:26:23	3265	AA_ENV_35			Camera	54	521420	6462906	521411	6462903	9	3	10	-108	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
19-Apr-2023	15:26:33	3266	AA_ENV_35			Camera	53	521420	6462905	521411	6462903	10	2	10	-104	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
19-Apr-2023	15:27:09	3267	AA_ENV_35			Camera	53	521423	6462903	521411	6462903	13	0	13	-91	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
19-Apr-2023	15:27:24	3268	AA_ENV_35			Camera	54	521424	6462902	521411	6462903	14	-1	14	-88	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
19-Apr-2023	15:27:43	3269	AA_ENV_35			Camera	54	521425	6462901	521411	6462903	15	-2	15	-83	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
19-Apr-2023	15:27:55	3270	AA_ENV_35			Camera	54	521426	6462900	521411	6462903	16	-3	16	-81	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
19-Apr-2023	15:28:22	3271	AA_ENV_35			Camera	54	521428	6462898	521411	6462903	18	-5	18	-74	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
19-Apr-2023	15:28:34	3272	AA_ENV_35			Camera	54	521429	6462897	521411	6462903	19	-6	20	-72	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
19-Apr-2023	15:28:50	3273	AA_ENV_35			Camera	54	521431	6462895	521411	6462903	21	-8	22	-70	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
19-Apr-2023	15:29:01	3274	AA_ENV_35			Camera	54	521432	6462894	521411	6462903	22	-9	23	-68	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
19-Apr-2023	15:29:44	3275	AA_ENV_35			Camera	54	521435	6462892	521411	6462903	24	-11	26	-66	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
19-Apr-2023	15:29:51	3276	AA_ENV_35			Camera	54	521435	6462892	521411	6462903	24	-11	27	-65	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
19-Apr-2023	15:30:14	3277	AA_ENV_35			Camera	54	521437	6462890	521411	6462903	26	-13	29	-64	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
19-Apr-2023	15:30:41	3278	AA_ENV_35			Camera	54	521439	6462888	521411	6462903	28	-15	32	-63	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
19-Apr-2023	15:31:16	3279	AA_ENV_35			Camera	54	521442	6462885	521411	6462903	32	-18	37	-60	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
19-Apr-2023	15:31:37	3280	AA_ENV_35			Camera	54	521444	6462882	521411	6462903	34	-21	40	-59	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
19-Apr-2023	15:32:06	3281	AA_ENV_35			Camera	54	521447	6462879	521411	6462903	37	-25	44	-56	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
19-Apr-2023	15:32:29	3282	AA_ENV_35			Camera	54	521449	6462876	521411	6462903	39	-27	47	-55	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																		
Job No	54463						Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks			
20-Apr-2023	14:44:42	3283	AA_ENV_33			Camera	54	Easting	523202	Northing	6467421	523255	6467414	-53	7	53	98	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
20-Apr-2023	14:44:58	3284	AA_ENV_33			Camera	54	Easting	523203	Northing	6467422	523255	6467414	-52	7	53	98	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
20-Apr-2023	14:45:25	3285	AA_ENV_33			Camera	54	Easting	523205	Northing	6467422	523255	6467414	-50	8	51	99	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
20-Apr-2023	14:45:49	3286	AA_ENV_33			Camera	54	Easting	523208	Northing	6467423	523255	6467414	-47	9	48	101	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
20-Apr-2023	14:46:09	3287	AA_ENV_33			Camera	54	Easting	523211	Northing	6467424	523255	6467414	-45	10	46	102	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
20-Apr-2023	14:46:19	3288	AA_ENV_33			Camera	54	Easting	523212	Northing	6467425	523255	6467414	-43	10	44	104	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
20-Apr-2023	14:46:37	3289	AA_ENV_33			Camera	54	Easting	523214	Northing	6467425	523255	6467414	-41	11	42	105	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
20-Apr-2023	14:47:13	3290	AA_ENV_33			Camera	54	Easting	523219	Northing	6467425	523255	6467414	-36	11	38	107	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
20-Apr-2023	14:47:41	3291	AA_ENV_33			Camera	54	Easting	523223	Northing	6467424	523255	6467414	-32	10	33	108	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
20-Apr-2023	14:48:15	3292	AA_ENV_33			Camera	54	Easting	523228	Northing	6467423	523255	6467414	-28	9	29	108	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
20-Apr-2023	14:48:29	3293	AA_ENV_33			Camera	54	Easting	523229	Northing	6467423	523255	6467414	-26	8	27	108	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
20-Apr-2023	14:48:51	3294	AA_ENV_33			Camera	54	Easting	523233	Northing	6467421	523255	6467414	-23	7	24	108	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
20-Apr-2023	14:49:13	3295	AA_ENV_33			Camera	54	Easting	523235	Northing	6467421	523255	6467414	-20	7	21	109	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
20-Apr-2023	14:50:02	3296	AA_ENV_33			Camera	54	Easting	523241	Northing	6467418	523255	6467414	-14	4	15	107	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
20-Apr-2023	14:50:15	3297	AA_ENV_33			Camera	54	Easting	523243	Northing	6467418	523255	6467414	-12	3	13	105	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
20-Apr-2023	14:50:30	3298	AA_ENV_33			Camera	54	Easting	523245	Northing	6467417	523255	6467414	-10	3	10	105	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
20-Apr-2023	14:50:47	3299	AA_ENV_33			Camera	54	Easting	523248	Northing	6467416	523255	6467414	-8	2	8	103	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
20-Apr-2023	14:51:03	3300	AA_ENV_33			Camera	54	Easting	523249	Northing	6467416	523255	6467414	-6	1	6	103	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
20-Apr-2023	14:51:29	3301	AA_ENV_33			Camera	54	Easting	523252	Northing	6467415	523255	6467414	-3	0	3	96	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
20-Apr-2023	14:51:53	3302	AA_ENV_33			Camera	54	Easting	523255	Northing	6467414	523255	6467414	-1	0	1	91	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
20-Apr-2023	14:52:13	3303	AA_ENV_33			Camera	54	Easting	523257	Northing	6467414	523255	6467414	2	0	2	-86	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
20-Apr-2023	14:52:37	3304	AA_ENV_33			Camera	54	Easting	523259	Northing	6467413	523255	6467414	4	-1	4	-77	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
20-Apr-2023	14:52:51	3305	AA_ENV_33			Camera	54	Easting	523261	Northing	6467413	523255	6467414	6	-2	6	-75	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
20-Apr-2023	14:53:09	3306	AA_ENV_33			Camera	54	Easting	523264	Northing	6467413	523255	6467414	8	-2	9	-79	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
20-Apr-2023	14:53:20	3307	AA_ENV_33			Camera	54	Easting	523265	Northing	6467412	523255	6467414	10	-2	10	-78	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
20-Apr-2023	14:53:49	3308	AA_ENV_33			Camera	54	Easting	523269	Northing	6467411	523255	6467414	14	-3	14	-78	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
20-Apr-2023	14:54:01	3309	AA_ENV_33			Camera	54	Easting	523271	Northing	6467411	523255	6467414	16	-4	16	-77	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
20-Apr-2023	14:54:15	3310	AA_ENV_33			Camera	54	Easting	523274	Northing	6467410	523255	6467414	18	-4	19	-76	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
20-Apr-2023	14:54:29	3311	AA_ENV_33			Camera	54	Easting	523276	Northing	6467410	523255	6467414	20	-5	21	-77	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
20-Apr-2023	14:54:41	3312	AA_ENV_33			Camera	54	Easting	523277	Northing	6467410	523255	6467414	22	-5	23	-78	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
20-Apr-2023	14:54:54	3313	AA_ENV_33			Camera	54	Easting	523279	Northing	6467409	523255	6467414	24	-6	25	-77	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
20-Apr-2023	14:55:04	3314	AA_ENV_33			Camera	54	Easting	523281	Northing	6467409	523255	6467414	26	-6	26	-77	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
20-Apr-2023	14:55:23	3315	AA_ENV_33			Camera	54	Easting	523284	Northing	6467408	523255	6467414	29	-6	29	-78	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
20-Apr-2023	14:55:39	3316	AA_ENV_33			Camera	54	Easting	523286	Northing	6467408	523255	6467414	31	-7	32	-78	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
20-Apr-2023	14:55:51	3317	AA_ENV_33			Camera	54	Easting	523288	Northing	6467407	523255	6467414	33	-7	34	-78	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
20-Apr-2023	14:56:02	3318	AA_ENV_33			Camera	54	Easting	523290	Northing	6467407	523255	6467414	35	-7	36	-78	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
20-Apr-2023	14:56:17	3319	AA_ENV_33			Camera	54	Easting	523293	Northing	6467407	523255	6467414	37	-7	38	-80	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																		
Job No	54463						Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks			
20-Apr-2023	14:56:42	3320	AA_ENV_33			Camera	54	Easting	523297	Northing	6467407	523255	6467414	dE	-7	42	-80	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
20-Apr-2023	14:57:06	3321	AA_ENV_33			Camera	54	Easting	523301	Northing	6467407	523255	6467414	dE	-8	46	-81	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
20-Apr-2023	14:57:23	3322	AA_ENV_33			Camera	54	Easting	523303	Northing	6467407	523255	6467414	dE	-8	49	-81	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
20-Apr-2023	16:36:42	3323	AA_ENV_14			Camera	57	Easting	519346	Northing	6467450	519351	6467394	dE	-5	56	56	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
20-Apr-2023	16:37:02	3324	AA_ENV_14			Camera	57	Easting	519347	Northing	6467448	519351	6467394	dE	-4	55	55	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
20-Apr-2023	16:37:40	3325	AA_ENV_14			Camera	57	Easting	519347	Northing	6467445	519351	6467394	dE	-4	52	52	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
20-Apr-2023	16:37:48	3326	AA_ENV_14			Camera	57	Easting	519348	Northing	6467445	519351	6467394	dE	-4	51	51	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
20-Apr-2023	16:38:44	3327	AA_ENV_14			Camera	57	Easting	519350	Northing	6467441	519351	6467394	dE	-1	47	47	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
20-Apr-2023	16:39:25	3328	AA_ENV_14			Camera	57	Easting	519351	Northing	6467437	519351	6467394	dE	-1	43	43	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
20-Apr-2023	16:39:54	3329	AA_ENV_14			Camera	57	Easting	519351	Northing	6467434	519351	6467394	dE	0	41	41	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
20-Apr-2023	16:40:15	3330	AA_ENV_14			Camera	57	Easting	519351	Northing	6467432	519351	6467394	dE	-1	39	39	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
20-Apr-2023	16:40:34	3331	AA_ENV_14			Camera	57	Easting	519351	Northing	6467431	519351	6467394	dE	0	37	37	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
20-Apr-2023	16:41:06	3332	AA_ENV_14			Camera	57	Easting	519351	Northing	6467428	519351	6467394	dE	-1	34	34	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
20-Apr-2023	16:41:44	3333	AA_ENV_14			Camera	57	Easting	519351	Northing	6467425	519351	6467394	dE	-1	31	31	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
20-Apr-2023	16:42:30	3334	AA_ENV_14			Camera	57	Easting	519351	Northing	6467420	519351	6467394	dE	0	26	26	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
20-Apr-2023	16:42:46	3335	AA_ENV_14			Camera	57	Easting	519351	Northing	6467419	519351	6467394	dE	0	25	25	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
20-Apr-2023	16:43:43	3336	AA_ENV_14			Camera	57	Easting	519350	Northing	6467415	519351	6467394	dE	-1	21	21	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
20-Apr-2023	16:44:31	3337	AA_ENV_14			Camera	57	Easting	519350	Northing	6467411	519351	6467394	dE	-1	17	17	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
20-Apr-2023	16:44:43	3338	AA_ENV_14			Camera	57	Easting	519350	Northing	6467409	519351	6467394	dE	-1	16	16	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
20-Apr-2023	16:45:20	3339	AA_ENV_14			Camera	57	Easting	519350	Northing	6467405	519351	6467394	dE	-1	11	11	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
20-Apr-2023	16:45:38	3340	AA_ENV_14			Camera	57	Easting	519350	Northing	6467403	519351	6467394	dE	-2	9	9	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
20-Apr-2023	16:45:53	3341	AA_ENV_14			Camera	57	Easting	519350	Northing	6467401	519351	6467394	dE	-2	7	7	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
20-Apr-2023	16:46:11	3342	AA_ENV_14			Camera	57	Easting	519350	Northing	6467399	519351	6467394	dE	-2	5	5	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
20-Apr-2023	16:46:40	3343	AA_ENV_14			Camera	57	Easting	519350	Northing	6467396	519351	6467394	dE	-1	2	2	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
20-Apr-2023	16:46:49	3344	AA_ENV_14			Camera	57	Easting	519350	Northing	6467394	519351	6467394	dE	-2	1	2	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
20-Apr-2023	16:46:58	3345	AA_ENV_14			Camera	57	Easting	519349	Northing	6467393	519351	6467394	dE	-2	-1	2	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
20-Apr-2023	16:47:11	3346	AA_ENV_14			Camera	57	Easting	519349	Northing	6467392	519351	6467394	dE	-2	-2	3	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
20-Apr-2023	16:47:21	3347	AA_ENV_14			Camera	57	Easting	519349	Northing	6467391	519351	6467394	dE	-2	-3	4	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
20-Apr-2023	16:47:46	3348	AA_ENV_14			Camera	57	Easting	519348	Northing	6467388	519351	6467394	dE	-3	-6	6	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
20-Apr-2023	16:47:57	3349	AA_ENV_14			Camera	57	Easting	519349	Northing	6467387	519351	6467394	dE	-3	-7	8	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
20-Apr-2023	16:48:08	3350	AA_ENV_14			Camera	57	Easting	519349	Northing	6467386	519351	6467394	dE	-3	-8	9	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
20-Apr-2023	16:48:35	3351	AA_ENV_14			Camera	57	Easting	519348	Northing	6467383	519351	6467394	dE	-3	-11	11	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
20-Apr-2023	16:49:02	3352	AA_ENV_14			Camera	57	Easting	519349	Northing	6467380	519351	6467394	dE	-3	-14	14	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
20-Apr-2023	16:49:45	3353	AA_ENV_14			Camera	57	Easting	519349	Northing	6467375	519351	6467394	dE	-2	-19	19	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
20-Apr-2023	16:49:53	3354	AA_ENV_14			Camera	57	Easting	519349	Northing	6467374	519351	6467394	dE	-3	-20	20	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
20-Apr-2023	16:50:18	3355	AA_ENV_14			Camera	57	Easting	519349	Northing	6467370	519351	6467394	dE	-2	-24	24	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
20-Apr-2023	16:50:45	3356	AA_ENV_14			Camera	57	Easting	519350	Northing	6467367	519351	6467394	dE	-1	-27	27	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
20-Apr-2023	16:50:55	3357	AA_ENV_14			Camera	57	519351	6467366	519351	6467394	-1	-28	28	1	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)	
20-Apr-2023	16:51:14	3358	AA_ENV_14			Camera	57	519350	6467364	519351	6467394	-1	-30	30	2	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)	
20-Apr-2023	16:51:22	3359	AA_ENV_14			Camera	57	519350	6467363	519351	6467394	-1	-31	31	2	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)	
20-Apr-2023	16:51:59	3360	AA_ENV_14			Camera	57	519350	6467358	519351	6467394	-1	-36	36	2	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)	
20-Apr-2023	16:52:27	3361	AA_ENV_14			Camera	57	519351	6467355	519351	6467394	-1	-39	39	1	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)	
20-Apr-2023	16:52:56	3362	AA_ENV_14			Camera	57	519351	6467352	519351	6467394	0	-42	42	1	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)	
20-Apr-2023	16:53:35	3363	AA_ENV_14			Camera	57	519351	6467347	519351	6467394	0	-47	47	0	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)	
20-Apr-2023	17:57:48	3364	AA_ENV_36			Camera	57	519401	6465772	519419	6465726	-18	46	49	159	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)	
20-Apr-2023	17:58:18	3365	AA_ENV_36			Camera	57	519403	6465768	519419	6465726	-16	42	45	160	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)	
20-Apr-2023	17:58:37	3366	AA_ENV_36			Camera	57	519404	6465765	519419	6465726	-14	39	42	160	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)	
20-Apr-2023	17:59:04	3367	AA_ENV_36			Camera	57	519406	6465761	519419	6465726	-12	35	37	161	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)	
20-Apr-2023	17:59:12	3368	AA_ENV_36			Camera	57	519407	6465759	519419	6465726	-12	34	36	160	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)	
20-Apr-2023	17:59:27	3369	AA_ENV_36			Camera	57	519408	6465757	519419	6465726	-11	32	33	161	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)	
20-Apr-2023	17:59:36	3370	AA_ENV_36			Camera	57	519408	6465756	519419	6465726	-11	30	32	160	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)	
20-Apr-2023	17:59:56	3371	AA_ENV_36			Camera	57	519409	6465753	519419	6465726	-10	27	29	160	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)	
20-Apr-2023	18:00:13	3372	AA_ENV_36			Camera	57	519410	6465750	519419	6465726	-9	24	26	160	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)	
20-Apr-2023	18:00:31	3373	AA_ENV_36			Camera	57	519412	6465747	519419	6465726	-7	22	23	162	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)	
20-Apr-2023	18:00:43	3374	AA_ENV_36			Camera	57	519412	6465746	519419	6465726	-7	21	22	161	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)	
20-Apr-2023	18:01:09	3375	AA_ENV_36			Camera	57	519412	6465744	519419	6465726	-7	18	19	159	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)	
20-Apr-2023	18:01:54	3376	AA_ENV_36			Camera	57	519412	6465740	519419	6465726	-6	14	15	156	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)	
20-Apr-2023	18:02:18	3377	AA_ENV_36			Camera	57	519414	6465737	519419	6465726	-4	11	12	159	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)	
20-Apr-2023	18:02:34	3378	AA_ENV_36			Camera	57	519416	6465735	519419	6465726	-3	10	10	162	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)	
20-Apr-2023	18:02:53	3379	AA_ENV_36			Camera	57	519417	6465733	519419	6465726	-1	8	8	169	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)	
20-Apr-2023	18:03:34	3380	AA_ENV_36			Camera	57	519420	6465727	519419	6465726	1	1	2	-134	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)	
20-Apr-2023	18:03:49	3381	AA_ENV_36			Camera	57	519420	6465725	519419	6465726	2	-1	2	-68	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)	
20-Apr-2023	18:04:13	3382	AA_ENV_36			Camera	57	519420	6465722	519419	6465726	2	-3	4	-25	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)	
20-Apr-2023	18:04:21	3383	AA_ENV_36			Camera	57	519421	6465721	519419	6465726	2	-4	5	-25	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)	
20-Apr-2023	18:04:34	3384	AA_ENV_36			Camera	57	519422	6465719	519419	6465726	3	-6	7	-24	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)	
20-Apr-2023	18:04:46	3385	AA_ENV_36			Camera	57	519422	6465717	519419	6465726	3	-8	9	-22	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)	
20-Apr-2023	18:04:58	3386	AA_ENV_36			Camera	57	519422	6465715	519419	6465726	3	-10	11	-17	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)	
20-Apr-2023	18:05:10	3387	AA_ENV_36			Camera	57	519422	6465713	519419	6465726	4	-13	13	-16	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)	
20-Apr-2023	18:05:17	3388	AA_ENV_36			Camera	57	519423	6465712	519419	6465726	4	-14	14	-18	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)	
20-Apr-2023	18:05:35	3389	AA_ENV_36			Camera	57	519425	6465709	519419	6465726	6	-16	17	-20	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)	
20-Apr-2023	18:05:48	3390	AA_ENV_36			Camera	57	519425	6465708	519419	6465726	7	-18	19	-21	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)	
20-Apr-2023	18:06:07	3391	AA_ENV_36			Camera	57	519426	6465705	519419	6465726	8	-20	22	-21	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)	
20-Apr-2023	18:06:25	3392	AA_ENV_36			Camera	57	519427	6465703	519419	6465726	8	-22	24	-20	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)	
20-Apr-2023	18:06:35	3393	AA_ENV_36			Camera	57	519427	6465702	519419	6465726	9	-23	25	-20	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)	

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
								Easting	Northing	Easting	Northing	dE	dN	Range	Bearing		
20-Apr-2023	18:07:00	3394	AA_ENV_36			Camera	57	519429	6465699	519419	6465726	10	-27	29	-20		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
20-Apr-2023	18:07:11	3395	AA_ENV_36			Camera	57	519429	6465697	519419	6465726	11	-29	30	-20		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
20-Apr-2023	18:07:26	3396	AA_ENV_36			Camera	57	519431	6465695	519419	6465726	12	-31	33	-21		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
20-Apr-2023	18:07:36	3397	AA_ENV_36			Camera	57	519432	6465693	519419	6465726	13	-32	35	-22		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
20-Apr-2023	18:07:49	3398	AA_ENV_36			Camera	57	519432	6465691	519419	6465726	14	-34	37	-22		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
20-Apr-2023	18:08:06	3399	AA_ENV_36			Camera	57	519432	6465690	519419	6465726	13	-36	38	-20		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
20-Apr-2023	18:08:30	3400	AA_ENV_36			Camera	57	519433	6465686	519419	6465726	15	-39	42	-20		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
20-Apr-2023	18:08:37	3401	AA_ENV_36			Camera	57	519434	6465685	519419	6465726	15	-40	43	-21		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
20-Apr-2023	18:08:59	3402	AA_ENV_36			Camera	57	519434	6465682	519419	6465726	16	-44	47	-20		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
20-Apr-2023	18:09:06	3403	AA_ENV_36			Camera	57	519434	6465681	519419	6465726	16	-45	48	-19		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
20-Apr-2023	18:48:48	3404	AA_ENV_02			Camera	58	521517	6465790	521550	6465754	-34	36	49	137		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
20-Apr-2023	18:49:05	3405	AA_ENV_02			Camera	59	521516	6465791	521550	6465754	-34	37	50	137		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
20-Apr-2023	18:49:26	3406	AA_ENV_02			Camera	58	521516	6465789	521550	6465754	-34	34	48	135		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
20-Apr-2023	18:49:33	3407	AA_ENV_02			Camera	58	521517	6465788	521550	6465754	-34	34	48	135		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
20-Apr-2023	18:49:58	3408	AA_ENV_02			Camera	58	521520	6465785	521550	6465754	-30	31	43	135		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
20-Apr-2023	18:50:26	3409	AA_ENV_02			Camera	58	521524	6465783	521550	6465754	-26	28	39	137		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
20-Apr-2023	18:50:58	3410	AA_ENV_02			Camera	58	521529	6465779	521550	6465754	-21	25	33	140		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
20-Apr-2023	18:51:06	3411	AA_ENV_02			Camera	58	521530	6465778	521550	6465754	-20	24	31	140		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
20-Apr-2023	18:51:29	3412	AA_ENV_02			Camera	58	521531	6465775	521550	6465754	-20	21	28	137		(Raw Nav, Kongsberg 14208, img#9) (B)
20-Apr-2023	18:51:53	3413	AA_ENV_02			Camera	58	521533	6465772	521550	6465754	-17	17	25	135		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
20-Apr-2023	18:52:16	3414	AA_ENV_02			Camera	58	521536	6465768	521550	6465754	-15	14	20	134		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
20-Apr-2023	18:52:48	3415	AA_ENV_02			Camera	58	521539	6465764	521550	6465754	-11	10	15	132		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
20-Apr-2023	18:53:09	3416	AA_ENV_02			Camera	58	521540	6465761	521550	6465754	-10	7	12	123		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
20-Apr-2023	18:53:26	3417	AA_ENV_02			Camera	58	521542	6465758	521550	6465754	-8	4	9	115		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
20-Apr-2023	18:53:49	3418	AA_ENV_02			Camera	58	521546	6465755	521550	6465754	-5	1	5	99		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
20-Apr-2023	18:54:01	3419	AA_ENV_02			Camera	58	521547	6465754	521550	6465754	-3	0	3	85		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
20-Apr-2023	18:54:13	3420	AA_ENV_02			Camera	58	521549	6465753	521550	6465754	-1	-1	2	38		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
20-Apr-2023	18:54:34	3421	AA_ENV_02			Camera	58	521551	6465750	521550	6465754	0	-4	4	-4		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
20-Apr-2023	18:54:49	3422	AA_ENV_02			Camera	58	521553	6465748	521550	6465754	2	-6	6	-21		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
20-Apr-2023	18:55:04	3423	AA_ENV_02			Camera	58	521555	6465747	521550	6465754	4	-8	9	-30		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
20-Apr-2023	18:55:11	3424	AA_ENV_02			Camera	58	521556	6465746	521550	6465754	5	-8	10	-32		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
20-Apr-2023	18:55:25	3425	AA_ENV_02			Camera	58	521558	6465744	521550	6465754	7	-10	12	-35		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
20-Apr-2023	18:55:41	3426	AA_ENV_02			Camera	58	521560	6465742	521550	6465754	10	-12	16	-39		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
20-Apr-2023	18:55:49	3427	AA_ENV_02			Camera	58	521562	6465741	521550	6465754	11	-13	17	-40		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
20-Apr-2023	18:55:58	3428	AA_ENV_02			Camera	58	521563	6465740	521550	6465754	13	-14	19	-42		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
20-Apr-2023	18:56:21	3429	AA_ENV_02			Camera	58	521567	6465739	521550	6465754	17	-15	23	-48		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
20-Apr-2023	18:56:36	3430	AA_ENV_02			Camera	58	521570	6465738	521550	6465754	20	-16	25	-51		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN			Range
20-Apr-2023	18:56:46	3431	AA_ENV_02			Camera	58	521571	6465738	521550	6465754	21	-16	27	-52	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
20-Apr-2023	18:56:59	3432	AA_ENV_02			Camera	58	521573	6465737	521550	6465754	23	-18	29	-52	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
20-Apr-2023	18:57:13	3433	AA_ENV_02			Camera	58	521575	6465736	521550	6465754	25	-18	31	-54	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
20-Apr-2023	18:57:26	3434	AA_ENV_02			Camera	58	521577	6465735	521550	6465754	27	-19	33	-54	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
20-Apr-2023	18:57:49	3435	AA_ENV_02			Camera	58	521578	6465732	521550	6465754	28	-22	36	-52	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
20-Apr-2023	18:58:14	3436	AA_ENV_02			Camera	58	521579	6465730	521550	6465754	29	-25	38	-49	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
20-Apr-2023	18:58:30	3437	AA_ENV_02			Camera	58	521580	6465727	521550	6465754	30	-27	40	-48	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
20-Apr-2023	18:58:38	3438	AA_ENV_02			Camera	58	521581	6465726	521550	6465754	30	-28	41	-47	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
20-Apr-2023	18:58:47	3439	AA_ENV_02			Camera	58	521582	6465725	521550	6465754	31	-29	43	-47	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
20-Apr-2023	18:58:58	3440	AA_ENV_02			Camera	58	521583	6465724	521550	6465754	32	-30	44	-47	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
20-Apr-2023	18:59:22	3441	AA_ENV_02			Camera	58	521586	6465721	521550	6465754	35	-33	48	-47	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
20-Apr-2023	21:35:01	3442	AA_ENV_32			Camera	56	532359	6452483	532374	6452533	-14	-50	52	16	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
20-Apr-2023	21:35:27	3443	AA_ENV_32			Camera	57	532360	6452486	532374	6452533	-14	-47	49	16	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
20-Apr-2023	21:35:56	3444	AA_ENV_32			Camera	57	532361	6452488	532374	6452533	-13	-45	46	16	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
20-Apr-2023	21:36:47	3445	AA_ENV_32			Camera	56	532363	6452491	532374	6452533	-11	-42	43	14	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
20-Apr-2023	21:37:09	3446	AA_ENV_32			Camera	56	532364	6452493	532374	6452533	-10	-40	41	14	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
20-Apr-2023	21:37:24	3447	AA_ENV_32			Camera	57	532365	6452495	532374	6452533	-9	-38	39	13	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
20-Apr-2023	21:38:01	3448	AA_ENV_32			Camera	57	532366	6452500	532374	6452533	-7	-33	34	12	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
20-Apr-2023	21:38:33	3449	AA_ENV_32			Camera	57	532367	6452505	532374	6452533	-6	-28	29	13	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
20-Apr-2023	21:38:54	3450	AA_ENV_32			Camera	57	532368	6452508	532374	6452533	-6	-25	26	13	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
20-Apr-2023	21:39:06	3451	AA_ENV_32			Camera	57	532368	6452510	532374	6452533	-5	-23	24	13	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
20-Apr-2023	21:39:34	3452	AA_ENV_32			Camera	56	532369	6452514	532374	6452533	-5	-19	19	15	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
20-Apr-2023		3453	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3454	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3455	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3456	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3457	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3458	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3459	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3460	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3461	AA_ENV_32			Camera									Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023	21:42:16	3462	AA_ENV_32			Camera	57	532376	6452535	532374	6452533	2	2	3	-136	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
20-Apr-2023	21:42:22	3463	AA_ENV_32			Camera	57	532376	6452536	532374	6452533	3	3	4	-137	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
20-Apr-2023	21:42:33	3464	AA_ENV_32			Camera	56	532377	6452536	532374	6452533	3	3	4	-137	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
20-Apr-2023	21:42:40	3465	AA_ENV_32			Camera	57	532377	6452537	532374	6452533	3	4	5	-137	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
20-Apr-2023	21:43:11	3466	AA_ENV_32			Camera	57	532378	6452540	532374	6452533	4	7	8	-148	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
20-Apr-2023	21:43:18	3467	AA_ENV_32			Camera	56	532378	6452541	532374	6452533	4	8	9	-151	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
20-Apr-2023	21:43:24	3468	AA_ENV_32			Camera	56	532378	6452542	532374	6452533	4	9	10	-153		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
20-Apr-2023	21:43:39	3469	AA_ENV_32			Camera	57	532378	6452544	532374	6452533	5	11	12	-157		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
20-Apr-2023	21:44:02	3470	AA_ENV_32			Camera	57	532379	6452547	532374	6452533	5	14	15	-160		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
20-Apr-2023	21:44:16	3471	AA_ENV_32			Camera	57	532379	6452549	532374	6452533	5	16	17	-162		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
20-Apr-2023	21:44:31	3472	AA_ENV_32			Camera	57	532379	6452551	532374	6452533	6	18	19	-163		(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
20-Apr-2023	21:44:42	3473	AA_ENV_32			Camera	57	532379	6452553	532374	6452533	6	20	21	-163		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
20-Apr-2023	21:44:54	3474	AA_ENV_32			Camera	57	532380	6452554	532374	6452533	6	21	22	-164		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
20-Apr-2023	21:45:14	3475	AA_ENV_32			Camera	57	532380	6452557	532374	6452533	7	24	25	-164		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
20-Apr-2023	21:45:29	3476	AA_ENV_32			Camera	57	532380	6452559	532374	6452533	7	26	27	-165		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
20-Apr-2023	21:45:39	3477	AA_ENV_32			Camera	57	532381	6452560	532374	6452533	7	27	28	-165		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
20-Apr-2023	21:45:51	3478	AA_ENV_32			Camera	57	532381	6452561	532374	6452533	7	28	29	-166		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
20-Apr-2023	21:46:25	3479	AA_ENV_32			Camera	57	532381	6452565	532374	6452533	7	32	33	-167		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
20-Apr-2023	21:46:35	3480	AA_ENV_32			Camera	56	532381	6452566	532374	6452533	7	33	34	-167		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
20-Apr-2023	21:47:12	3481	AA_ENV_32			Camera	57	532382	6452570	532374	6452533	8	37	38	-168		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
20-Apr-2023	21:47:30	3482	AA_ENV_32			Camera	57	532382	6452573	532374	6452533	8	40	41	-168		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
20-Apr-2023		3483	AA_ENV_32			Camera										Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3484	AA_ENV_32			Camera										Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023		3485	AA_ENV_33			Camera										Lost connection with EELS, Photo but no Fix taken	
20-Apr-2023	23:25:13	3486	AA_ENV_29			Camera	62	537954	6451105	537961	6451159	-8	-54	54	8		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
20-Apr-2023	23:25:51	3487	AA_ENV_29			Camera	62	537954	6451107	537961	6451159	-7	-52	52	8		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
20-Apr-2023	23:29:04	3488	AA_ENV_29			Camera	62	537957	6451112	537961	6451159	-5	-47	47	6		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
20-Apr-2023	23:29:21	3489	AA_ENV_29			Camera	62	537957	6451111	537961	6451159	-4	-48	48	5		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
20-Apr-2023	23:30:07	3490	AA_ENV_29			Camera	62	537956	6451112	537961	6451159	-5	-48	48	6		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
20-Apr-2023	23:30:35	3491	AA_ENV_29			Camera	64	537957	6451114	537961	6451159	-4	-45	45	5		(Raw Nav, Kongsberg 14208, img#6) (B)
20-Apr-2023	23:30:44	3492	AA_ENV_29			Camera	62	537957	6451115	537961	6451159	-4	-44	44	6		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
20-Apr-2023	23:30:59	3493	AA_ENV_29			Camera	62	537957	6451117	537961	6451159	-4	-42	43	6		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
20-Apr-2023	23:31:14	3494	AA_ENV_29			Camera	62	537957	6451118	537961	6451159	-4	-41	41	6		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
20-Apr-2023	23:31:21	3495	AA_ENV_29			Camera	62	537958	6451118	537961	6451159	-4	-41	41	5		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
20-Apr-2023	23:31:28	3496	AA_ENV_29			Camera	62	537957	6451119	537961	6451159	-4	-40	40	6		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
20-Apr-2023	23:31:48	3497	AA_ENV_29			Camera	62	537958	6451121	537961	6451159	-4	-38	38	6		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
20-Apr-2023	23:32:02	3498	AA_ENV_29			Camera	62	537958	6451123	537961	6451159	-3	-36	37	5		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
20-Apr-2023	23:32:32	3499	AA_ENV_29			Camera	62	537958	6451126	537961	6451159	-3	-33	33	6		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
20-Apr-2023	23:32:53	3500	AA_ENV_29			Camera	62	537958	6451129	537961	6451159	-3	-30	30	6		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
20-Apr-2023	23:33:01	3501	AA_ENV_29			Camera	62	537958	6451130	537961	6451159	-3	-29	29	6		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
20-Apr-2023	23:33:07	3502	AA_ENV_29			Camera	62	537958	6451131	537961	6451159	-3	-28	28	7		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
20-Apr-2023	23:33:22	3503	AA_ENV_29			Camera	62	537958	6451133	537961	6451159	-3	-26	26	6		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
20-Apr-2023	23:33:30	3504	AA_ENV_29			Camera	62	537958	6451134	537961	6451159	-3	-25	25	7		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463					Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y	21.94			
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon						z	2.93		
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT		
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN	Range	Bearing	
20-Apr-2023	23:33:39	3505	AA_ENV_29			Camera	62	537958	6451135	537961	6451159	-3	-24	24	7	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
20-Apr-2023	23:33:57	3506	AA_ENV_29			Camera	62	537958	6451137	537961	6451159	-3	-22	22	9	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
20-Apr-2023	23:34:05	3507	AA_ENV_29			Camera	62	537958	6451138	537961	6451159	-4	-21	21	10	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
20-Apr-2023	23:34:17	3508	AA_ENV_29			Camera	62	537957	6451140	537961	6451159	-4	-19	19	11	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
20-Apr-2023	23:34:22	3509	AA_ENV_29			Camera	62	537958	6451140	537961	6451159	-4	-19	19	11	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
20-Apr-2023	23:34:43	3510	AA_ENV_29			Camera	62	537958	6451144	537961	6451159	-3	-15	15	12	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
20-Apr-2023	23:35:16	3511	AA_ENV_29			Camera	64	537959	6451149	537961	6451159	-2	-10	10	13	(Raw Nav, Kongsberg 14208, img#26) (B)
20-Apr-2023	23:35:22	3512	AA_ENV_29			Camera	62	537960	6451149	537961	6451159	-2	-10	10	9	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
20-Apr-2023	23:35:45	3513	AA_ENV_29			Camera	62	537961	6451153	537961	6451159	0	-6	6	2	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
20-Apr-2023	23:36:03	3514	AA_ENV_29			Camera	62	537962	6451155	537961	6451159	0	-4	4	-5	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
20-Apr-2023	23:36:15	3515	AA_ENV_29			Camera	64	537962	6451157	537961	6451159	1	-2	2	-21	(Raw Nav, Kongsberg 14208, img#30) (B)
20-Apr-2023	23:36:21	3516	AA_ENV_29			Camera	62	537963	6451157	537961	6451159	1	-2	2	-40	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
20-Apr-2023	23:36:47	3517	AA_ENV_29			Camera	62	537964	6451161	537961	6451159	2	2	3	-131	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
20-Apr-2023	23:36:58	3518	AA_ENV_29			Camera	62	537964	6451163	537961	6451159	3	4	5	-143	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
20-Apr-2023	23:37:11	3519	AA_ENV_29			Camera	62	537965	6451165	537961	6451159	3	6	7	-152	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
20-Apr-2023	23:37:29	3520	AA_ENV_29			Camera	62	537965	6451168	537961	6451159	4	9	10	-156	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
20-Apr-2023	23:37:38	3521	AA_ENV_29			Camera	62	537965	6451169	537961	6451159	4	10	11	-158	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
20-Apr-2023	23:37:48	3522	AA_ENV_29			Camera	62	537965	6451170	537961	6451159	4	11	12	-161	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
20-Apr-2023	23:38:06	3523	AA_ENV_29			Camera	62	537964	6451174	537961	6451159	3	15	15	-168	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
20-Apr-2023	23:38:20	3524	AA_ENV_29			Camera	62	537964	6451176	537961	6451159	3	17	17	-170	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
20-Apr-2023	23:38:28	3525	AA_ENV_29			Camera	62	537964	6451177	537961	6451159	3	18	19	-171	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
20-Apr-2023	23:39:02	3526	AA_ENV_29			Camera	62	537963	6451182	537961	6451159	2	23	23	-175	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
20-Apr-2023	23:39:27	3527	AA_ENV_29			Camera	62	537963	6451186	537961	6451159	2	27	27	-176	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
20-Apr-2023	23:39:35	3528	AA_ENV_29			Camera	62	537963	6451186	537961	6451159	2	27	27	-177	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
20-Apr-2023	23:39:57	3529	AA_ENV_29			Camera	62	537963	6451189	537961	6451159	2	30	30	-176	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
20-Apr-2023	23:40:10	3530	AA_ENV_29			Camera	62	537964	6451190	537961	6451159	3	31	31	-175	(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
20-Apr-2023	23:40:18	3531	AA_ENV_29			Camera	62	537964	6451191	537961	6451159	3	32	32	-175	(Corr'd Nav, Kongsberg 14208, img#46) (B) (T.A)
20-Apr-2023	23:40:27	3532	AA_ENV_29			Camera	62	537965	6451192	537961	6451159	4	33	33	-174	(Corr'd Nav, Kongsberg 14208, img#47) (B) (T.A)
20-Apr-2023	23:40:37	3533	AA_ENV_29			Camera	62	537965	6451193	537961	6451159	4	34	34	-173	(Corr'd Nav, Kongsberg 14208, img#48) (B) (T.A)
20-Apr-2023	23:40:58	3534	AA_ENV_29			Camera	62	537966	6451196	537961	6451159	5	37	38	-172	(Corr'd Nav, Kongsberg 14208, img#49) (B) (T.A)
20-Apr-2023	23:41:10	3535	AA_ENV_29			Camera	62	537967	6451198	537961	6451159	6	39	39	-172	(Corr'd Nav, Kongsberg 14208, img#50) (B) (T.A)
20-Apr-2023	23:41:20	3536	AA_ENV_29			Camera	62	537967	6451200	537961	6451159	5	41	41	-172	(Corr'd Nav, Kongsberg 14208, img#51) (B) (T.A)
20-Apr-2023	23:41:31	3537	AA_ENV_29			Camera	62	537967	6451202	537961	6451159	6	43	43	-172	(Corr'd Nav, Kongsberg 14208, img#52) (B) (T.A)
20-Apr-2023	23:41:45	3538	AA_ENV_29			Camera	62	537967	6451204	537961	6451159	6	45	45	-172	(Corr'd Nav, Kongsberg 14208, img#53) (B) (T.A)
20-Apr-2023	23:42:00	3539	AA_ENV_29			Camera	62	537967	6451207	537961	6451159	6	48	48	-173	(Corr'd Nav, Kongsberg 14208, img#54) (B) (T.A)
21-Apr-2023	01:12:24	3540	AA_ENV_27			Camera	58	535287	6448552	535303	6448610	-16	-58	60	16	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	01:13:01	3541	AA_ENV_27			Camera	58	535286	6448553	535303	6448610	-17	-56	59	17	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463					Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y				
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon									
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
21-Apr-2023	01:13:22	3542	AA_ENV_27			Camera	58	535287	6448554	535303	6448610	-16	-55	58	16	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	01:13:49	3543	AA_ENV_27			Camera	58	535288	6448558	535303	6448610	-15	-52	54	16	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	01:14:10	3544	AA_ENV_27			Camera	58	535289	6448561	535303	6448610	-14	-49	51	16	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	01:14:27	3545	AA_ENV_27			Camera	58	535290	6448564	535303	6448610	-13	-46	48	16	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	01:14:38	3546	AA_ENV_27			Camera	58	535290	6448566	535303	6448610	-13	-44	46	17	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	01:15:02	3547	AA_ENV_27			Camera	58	535291	6448569	535303	6448610	-12	-41	43	17	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	01:15:25	3548	AA_ENV_27			Camera	58	535292	6448572	535303	6448610	-11	-38	39	17	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	01:15:35	3549	AA_ENV_27			Camera	58	535293	6448573	535303	6448610	-11	-37	38	17	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	01:15:50	3550	AA_ENV_27			Camera	58	535294	6448575	535303	6448610	-10	-34	36	16	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	01:15:56	3551	AA_ENV_27			Camera	58	535294	6448576	535303	6448610	-10	-33	35	16	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	01:16:22	3552	AA_ENV_27			Camera	58	535295	6448579	535303	6448610	-9	-30	31	16	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	01:16:46	3553	AA_ENV_27			Camera	58	535296	6448582	535303	6448610	-7	-27	28	15	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	01:16:58	3554	AA_ENV_27			Camera	58	535296	6448584	535303	6448610	-7	-25	26	16	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	01:17:17	3555	AA_ENV_27			Camera	58	535297	6448587	535303	6448610	-6	-23	24	15	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	01:17:58	3556	AA_ENV_27			Camera	58	535298	6448592	535303	6448610	-5	-18	18	16	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	01:18:30	3557	AA_ENV_27			Camera	58	535299	6448597	535303	6448610	-4	-13	14	18	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	01:18:42	3558	AA_ENV_27			Camera	58	535299	6448598	535303	6448610	-4	-11	12	21	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	01:18:52	3559	AA_ENV_27			Camera	58	535299	6448599	535303	6448610	-4	-10	11	22	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	01:19:18	3560	AA_ENV_27			Camera	58	535300	6448604	535303	6448610	-3	-6	7	29	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	01:19:31	3561	AA_ENV_27			Camera	58	535301	6448606	535303	6448610	-3	-3	4	37	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	01:19:59	3562	AA_ENV_27			Camera	58	535302	6448611	535303	6448610	-2	1	2	120	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	01:20:22	3563	AA_ENV_27			Camera	58	535303	6448615	535303	6448610	-1	5	5	170	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	01:20:37	3564	AA_ENV_27			Camera	58	535303	6448617	535303	6448610	0	7	7	-180	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	01:20:56	3565	AA_ENV_27			Camera	58	535304	6448620	535303	6448610	1	10	10	-175	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	01:21:07	3566	AA_ENV_27			Camera	58	535305	6448621	535303	6448610	2	12	12	-171	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	01:21:17	3567	AA_ENV_27			Camera	58	535306	6448623	535303	6448610	2	13	13	-170	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	01:21:34	3568	AA_ENV_27			Camera	58	535307	6448624	535303	6448610	3	15	15	-167	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	01:21:44	3569	AA_ENV_27			Camera	58	535308	6448626	535303	6448610	4	16	17	-165	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	01:21:51	3570	AA_ENV_27			Camera	58	535308	6448627	535303	6448610	5	17	18	-164	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	01:22:05	3571	AA_ENV_27			Camera	58	535309	6448629	535303	6448610	6	19	20	-163	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	01:22:14	3572	AA_ENV_27			Camera	58	535310	6448630	535303	6448610	7	20	21	-162	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	01:22:22	3573	AA_ENV_27			Camera	58	535311	6448631	535303	6448610	7	21	22	-162	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	01:22:42	3574	AA_ENV_27			Camera	58	535312	6448633	535303	6448610	8	24	25	-161	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	01:22:50	3575	AA_ENV_27			Camera	58	535312	6448634	535303	6448610	9	24	26	-160	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	01:23:01	3576	AA_ENV_27			Camera	58	535313	6448636	535303	6448610	9	26	28	-160	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	01:23:12	3577	AA_ENV_27			Camera	58	535313	6448637	535303	6448610	10	27	29	-160	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	01:23:25	3578	AA_ENV_27			Camera	58	535314	6448638	535303	6448610	10	29	30	-160	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463					Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y					
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon										
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
21-Apr-2023	01:23:35	3579	AA_ENV_27			Camera	58	535314	6448640	535303	6448610	10	30	32	-161		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	01:23:51	3580	AA_ENV_27			Camera	58	535314	6448642	535303	6448610	11	32	34	-162		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
21-Apr-2023	01:23:57	3581	AA_ENV_27			Camera	58	535314	6448642	535303	6448610	11	33	34	-162		(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
21-Apr-2023	01:24:09	3582	AA_ENV_27			Camera	58	535314	6448644	535303	6448610	10	34	36	-163		(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
21-Apr-2023	01:24:26	3583	AA_ENV_27			Camera	58	535313	6448645	535303	6448610	10	36	37	-164		(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
21-Apr-2023	01:25:07	3584	AA_ENV_27			Camera	58	535314	6448649	535303	6448610	10	39	41	-166		(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
21-Apr-2023	01:25:10	3585	AA_ENV_27			Camera	58	535313	6448649	535303	6448610	9	40	41	-167		(Corr'd Nav, Kongsberg 14208, img#46) (B) (T.A)
21-Apr-2023	01:25:20	3586	AA_ENV_27			Camera	58	535313	6448651	535303	6448610	9	42	43	-167		(Corr'd Nav, Kongsberg 14208, img#47) (B) (T.A)
21-Apr-2023	01:25:59	3587	AA_ENV_27			Camera	58	535312	6448656	535303	6448610	9	47	48	-169		(Corr'd Nav, Kongsberg 14208, img#48) (B) (T.A)
21-Apr-2023	02:55:47	3588	AA_ENV_06			Camera	62	535750	6445788	535808	6445823	-58	-35	68	59		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	02:55:55	3589	AA_ENV_06			Camera	62	535750	6445788	535808	6445823	-58	-35	68	59		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
21-Apr-2023	02:56:13	3590	AA_ENV_06			Camera	62	535752	6445790	535808	6445823	-56	-33	65	59		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	02:57:26	3591	AA_ENV_06			Camera	62	535756	6445791	535808	6445823	-53	-33	62	58		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	02:57:41	3592	AA_ENV_06			Camera	62	535757	6445790	535808	6445823	-51	-33	61	57		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	02:57:55	3593	AA_ENV_06			Camera	62	535759	6445790	535808	6445823	-49	-33	59	56		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	02:58:10	3594	AA_ENV_06			Camera	62	535762	6445791	535808	6445823	-46	-33	57	55		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	02:58:18	3595	AA_ENV_06			Camera	62	535763	6445791	535808	6445823	-45	-32	55	54		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	02:58:29	3596	AA_ENV_06			Camera	62	535765	6445792	535808	6445823	-43	-32	53	54		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	02:58:37	3597	AA_ENV_06			Camera	62	535767	6445793	535808	6445823	-41	-31	51	53		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	02:58:45	3598	AA_ENV_06			Camera	62	535768	6445793	535808	6445823	-40	-30	50	53		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	02:58:52	3599	AA_ENV_06			Camera	62	535770	6445794	535808	6445823	-38	-29	48	52		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	02:58:59	3600	AA_ENV_06			Camera	62	535771	6445795	535808	6445823	-37	-28	47	52		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	02:59:20	3601	AA_ENV_06			Camera	62	535774	6445797	535808	6445823	-34	-26	43	52		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	02:59:32	3602	AA_ENV_06			Camera	62	535775	6445798	535808	6445823	-33	-25	42	52		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	02:59:48	3603	AA_ENV_06			Camera	62	535778	6445800	535808	6445823	-30	-24	39	52		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	03:00:05	3604	AA_ENV_06			Camera	62	535780	6445801	535808	6445823	-28	-22	36	52		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	03:00:18	3605	AA_ENV_06			Camera	62	535782	6445802	535808	6445823	-26	-21	33	51		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	03:00:29	3606	AA_ENV_06			Camera	62	535784	6445804	535808	6445823	-25	-20	31	51		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	03:00:48	3607	AA_ENV_06			Camera	62	535786	6445806	535808	6445823	-22	-17	28	52		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	03:01:10	3608	AA_ENV_06			Camera	62	535787	6445808	535808	6445823	-21	-15	26	54		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	03:01:22	3609	AA_ENV_06			Camera	62	535789	6445809	535808	6445823	-19	-14	24	54		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	03:01:35	3610	AA_ENV_06			Camera	62	535791	6445811	535808	6445823	-17	-12	21	55		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	03:01:41	3611	AA_ENV_06			Camera	62	535791	6445812	535808	6445823	-17	-12	21	55		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	03:02:11	3612	AA_ENV_06			Camera	62	535793	6445815	535808	6445823	-15	-8	17	61		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	03:02:33	3613	AA_ENV_06			Camera	62	535796	6445817	535808	6445823	-13	-7	14	61		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	03:02:48	3614	AA_ENV_06			Camera	62	535798	6445819	535808	6445823	-10	-5	11	66		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	03:03:27	3615	AA_ENV_06			Camera	62	535799	6445821	535808	6445823	-9	-3	9	73		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																		
Job No	54463						Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks			
21-Apr-2023	03:03:52	3616	AA_ENV_06			Camera	62	Easting	535802	Northing	6445822	535808	6445823	-6	-1	6	80	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	03:04:17	3617	AA_ENV_06			Camera	62	Easting	535804	Northing	6445824	535808	6445823	-4	1	4	99	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	03:05:12	3618	AA_ENV_06			Camera	62	Easting	535810	Northing	6445828	535808	6445823	2	5	5	-160	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	03:06:07	3619	AA_ENV_06			Camera	62	Easting	535817	Northing	6445832	535808	6445823	9	9	13	-134	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	03:06:19	3620	AA_ENV_06			Camera	62	Easting	535818	Northing	6445833	535808	6445823	10	10	14	-134	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	03:06:29	3621	AA_ENV_06			Camera	62	Easting	535820	Northing	6445835	535808	6445823	12	11	16	-134	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	03:07:19	3622	AA_ENV_06			Camera	62	Easting	535825	Northing	6445839	535808	6445823	17	15	23	-133	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	03:07:34	3623	AA_ENV_06			Camera	62	Easting	535827	Northing	6445841	535808	6445823	19	17	25	-133	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	03:08:17	3624	AA_ENV_06			Camera	62	Easting	535832	Northing	6445846	535808	6445823	24	22	33	-133	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	03:08:28	3625	AA_ENV_06			Camera	62	Easting	535834	Northing	6445847	535808	6445823	26	24	35	-133	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	03:08:42	3626	AA_ENV_06			Camera	62	Easting	535835	Northing	6445849	535808	6445823	27	26	37	-134	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	03:08:52	3627	AA_ENV_06			Camera	62	Easting	535836	Northing	6445850	535808	6445823	28	27	38	-134	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	03:09:18	3628	AA_ENV_06			Camera	62	Easting	535838	Northing	6445852	535808	6445823	30	28	41	-133	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
21-Apr-2023	03:09:25	3629	AA_ENV_06			Camera	62	Easting	535839	Northing	6445854	535808	6445823	31	30	43	-134	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
21-Apr-2023	03:09:51	3630	AA_ENV_06			Camera	62	Easting	535842	Northing	6445856	535808	6445823	34	32	47	-134	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
21-Apr-2023		3631	AA_ENV_28			Camera											Lost connection with EELS, Photo but no Fix taken	
21-Apr-2023		3632	AA_ENV_28			Camera											Lost connection with EELS, Photo but no Fix taken	
21-Apr-2023		3633	AA_ENV_28			Camera											Lost connection with EELS, Photo but no Fix taken	
21-Apr-2023		3634	AA_ENV_28			Camera											Lost connection with EELS, Photo but no Fix taken	
21-Apr-2023		3635	AA_ENV_28			Camera	54	Easting	531076	Northing	6448609	531132	6448650	-57	-40	70	54	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	05:31:42	3636	AA_ENV_28			Camera	54	Easting	531069	Northing	6448623	531132	6448650	-64	-27	69	67	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	05:36:59	3637	AA_ENV_28			Camera	54	Easting	531074	Northing	6448626	531132	6448650	-58	-24	63	68	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	05:37:57	3638	AA_ENV_28			Camera	54	Easting	531076	Northing	6448626	531132	6448650	-57	-23	61	68	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	05:38:26	3639	AA_ENV_28			Camera	54	Easting	531079	Northing	6448627	531132	6448650	-53	-23	58	67	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	05:38:39	3640	AA_ENV_28			Camera	54	Easting	531081	Northing	6448628	531132	6448650	-51	-21	55	67	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	05:39:00	3641	AA_ENV_28			Camera	54	Easting	531085	Northing	6448630	531132	6448650	-47	-20	51	67	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	05:39:06	3642	AA_ENV_28			Camera	54	Easting	531086	Northing	6448630	531132	6448650	-46	-20	50	67	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	05:39:10	3643	AA_ENV_28			Camera	54	Easting	531087	Northing	6448630	531132	6448650	-46	-20	50	67	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	05:39:26	3644	AA_ENV_28			Camera	54	Easting	531089	Northing	6448632	531132	6448650	-43	-18	47	67	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	05:39:40	3645	AA_ENV_28			Camera	54	Easting	531091	Northing	6448632	531132	6448650	-41	-17	45	67	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	05:39:47	3646	AA_ENV_28			Camera	54	Easting	531092	Northing	6448632	531132	6448650	-41	-18	44	67	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	05:39:56	3647	AA_ENV_28			Camera	54	Easting	531093	Northing	6448633	531132	6448650	-40	-17	43	67	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	05:40:01	3648	AA_ENV_28			Camera	54	Easting	531093	Northing	6448634	531132	6448650	-39	-16	42	68	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	05:40:15	3649	AA_ENV_28			Camera	54	Easting	531095	Northing	6448636	531132	6448650	-37	-14	40	69	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	05:40:27	3650	AA_ENV_28			Camera	54	Easting	531097	Northing	6448637	531132	6448650	-35	-13	37	70	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	05:40:45	3651	AA_ENV_28			Camera	54	Easting	531100	Northing	6448640	531132	6448650	-33	-10	34	73	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	05:40:55	3652	AA_ENV_28			Camera	54	Easting	531101	Northing	6448641	531132	6448650	-31	-9	33	74	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																		
Job No	54463						Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7						
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94						
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks			
21-Apr-2023	05:41:18	3653	AA_ENV_28			Camera	54	Easting	531102	Northing	6448641	531132	6448650	-30	-8	31	75	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	05:41:25	3654	AA_ENV_28			Camera	54	Easting	531103	Northing	6448642	531132	6448650	-29	-8	30	75	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	05:41:33	3655	AA_ENV_28			Camera	54	Easting	531104	Northing	6448642	531132	6448650	-28	-7	29	76	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	05:41:53	3656	AA_ENV_28			Camera	54	Easting	531107	Northing	6448644	531132	6448650	-26	-5	26	78	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	05:42:16	3657	AA_ENV_28			Camera	54	Easting	531110	Northing	6448646	531132	6448650	-22	-4	22	81	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	05:42:39	3658	AA_ENV_28			Camera	54	Easting	531113	Northing	6448647	531132	6448650	-20	-3	20	82	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	05:42:57	3659	AA_ENV_28			Camera	55	Easting	531114	Northing	6448647	531132	6448650	-18	-2	18	83	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	05:43:05	3660	AA_ENV_28			Camera	55	Easting	531115	Northing	6448648	531132	6448650	-17	-2	17	84	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	05:43:14	3661	AA_ENV_28			Camera	55	Easting	531116	Northing	6448648	531132	6448650	-16	-2	16	85	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	05:43:22	3662	AA_ENV_28			Camera	55	Easting	531118	Northing	6448648	531132	6448650	-15	-1	15	85	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	05:43:39	3663	AA_ENV_28			Camera	55	Easting	531120	Northing	6448649	531132	6448650	-13	-1	13	87	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	05:43:57	3664	AA_ENV_28			Camera	55	Easting	531122	Northing	6448651	531132	6448650	-11	1	11	95	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	05:44:06	3665	AA_ENV_28			Camera	55	Easting	531122	Northing	6448651	531132	6448650	-10	1	10	98	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	05:45:00	3666	AA_ENV_28			Camera	55	Easting	531129	Northing	6448651	531132	6448650	-4	1	4	112	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	05:45:17	3667	AA_ENV_28			Camera	55	Easting	531132	Northing	6448652	531132	6448650	-1	3	3	167	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	05:45:23	3668	AA_ENV_28			Camera	55	Easting	531133	Northing	6448653	531132	6448650	0	3	3	-173	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	05:45:35	3669	AA_ENV_28			Camera	55	Easting	531135	Northing	6448653	531132	6448650	2	3	4	-145	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	05:45:54	3670	AA_ENV_28			Camera	55	Easting	531138	Northing	6448654	531132	6448650	6	4	7	-126	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	05:46:01	3671	AA_ENV_28			Camera	55	Easting	531139	Northing	6448654	531132	6448650	7	4	8	-121	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	05:46:24	3672	AA_ENV_28			Camera	55	Easting	531142	Northing	6448654	531132	6448650	10	5	11	-115	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	05:46:41	3673	AA_ENV_28			Camera	55	Easting	531145	Northing	6448655	531132	6448650	13	5	14	-113	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
21-Apr-2023	05:46:51	3674	AA_ENV_28			Camera	55	Easting	531147	Northing	6448655	531132	6448650	15	6	16	-111	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
21-Apr-2023	05:46:55	3675	AA_ENV_28			Camera	55	Easting	531148	Northing	6448655	531132	6448650	15	6	16	-110	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
21-Apr-2023	05:47:23	3676	AA_ENV_28			Camera	55	Easting	531151	Northing	6448656	531132	6448650	18	6	19	-108	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
21-Apr-2023	05:47:35	3677	AA_ENV_28			Camera	55	Easting	531151	Northing	6448655	531132	6448650	19	6	20	-106	(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
21-Apr-2023	05:47:55	3678	AA_ENV_28			Camera	54	Easting	531154	Northing	6448655	531132	6448650	22	6	22	-105	(Corr'd Nav, Kongsberg 14208, img#46) (B) (T.A)
21-Apr-2023	05:48:12	3679	AA_ENV_28			Camera	55	Easting	531157	Northing	6448656	531132	6448650	24	6	25	-104	(Corr'd Nav, Kongsberg 14208, img#47) (B) (T.A)
21-Apr-2023	05:48:29	3680	AA_ENV_28			Camera	55	Easting	531159	Northing	6448655	531132	6448650	26	6	27	-102	(Corr'd Nav, Kongsberg 14208, img#48) (B) (T.A)
21-Apr-2023	05:48:53	3681	AA_ENV_28			Camera	55	Easting	531162	Northing	6448656	531132	6448650	29	6	30	-101	(Corr'd Nav, Kongsberg 14208, img#49) (B) (T.A)
21-Apr-2023	05:49:06	3682	AA_ENV_28			Camera	55	Easting	531162	Northing	6448655	531132	6448650	30	5	30	-100	(Corr'd Nav, Kongsberg 14208, img#50) (B) (T.A)
21-Apr-2023	05:50:07	3683	AA_ENV_28			Camera	54	Easting	531170	Northing	6448654	531132	6448650	38	4	38	-96	(Corr'd Nav, Kongsberg 14208, img#51) (B) (T.A)
21-Apr-2023	05:50:22	3684	AA_ENV_28			Camera	54	Easting	531172	Northing	6448653	531132	6448650	39	3	40	-95	(Corr'd Nav, Kongsberg 14208, img#52) (B) (T.A)
21-Apr-2023	05:50:43	3685	AA_ENV_28			Camera	54	Easting	531174	Northing	6448654	531132	6448650	42	4	42	-96	(Corr'd Nav, Kongsberg 14208, img#53) (B) (T.A)
21-Apr-2023	05:51:04	3686	AA_ENV_28			Camera	54	Easting	531177	Northing	6448653	531132	6448650	45	3	45	-94	(Corr'd Nav, Kongsberg 14208, img#54) (B) (T.A)
21-Apr-2023	05:51:22	3687	AA_ENV_28			Camera	54	Easting	531180	Northing	6448653	531132	6448650	48	3	48	-93	(Corr'd Nav, Kongsberg 14208, img#55) (B) (T.A)
21-Apr-2023	09:02:31	3688	AA_ENV_15			Camera	63	Easting	533427	Northing	6444208	533430	6444276	-3	-68	68	3	(Raw Nav, Kongsberg 14208, img#1) (B)
21-Apr-2023	09:04:35	3689	AA_ENV_15			Camera	63	Easting	533424	Northing	6444228	533430	6444276	-6	-48	48	7	(Raw Nav, Kongsberg 14208, img#2) (B)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No		Vessel						MV Ocean Endeavour									
Client		Vessel Reference Point (VRP)						COG									
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93		
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon									
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
21-Apr-2023	09:04:41	3690	AA_ENV_15			Camera	63	533423	6444229	533430	6444276	-7	-47	47	9	(Raw Nav, Kongsberg 14208, img#3) (B)	
21-Apr-2023	09:04:51	3691	AA_ENV_15			Camera	63	533424	6444230	533430	6444276	-6	-46	46	8	(Raw Nav, Kongsberg 14208, img#4) (B)	
21-Apr-2023	09:05:02	3692	AA_ENV_15			Camera	63	533423	6444231	533430	6444276	-7	-45	45	9	(Raw Nav, Kongsberg 14208, img#5) (B)	
21-Apr-2023	09:05:10	3693	AA_ENV_15			Camera	63	533424	6444232	533430	6444276	-6	-44	44	8	(Raw Nav, Kongsberg 14208, img#6) (B)	
21-Apr-2023	09:05:16	3694	AA_ENV_15			Camera	63	533424	6444233	533430	6444276	-6	-43	43	8	(Raw Nav, Kongsberg 14208, img#7) (B)	
21-Apr-2023	09:05:24	3695	AA_ENV_15			Camera	63	533424	6444233	533430	6444276	-6	-43	43	8	(Raw Nav, Kongsberg 14208, img#8) (B)	
21-Apr-2023	09:05:41	3696	AA_ENV_15			Camera	63	533425	6444235	533430	6444276	-5	-41	41	7	(Raw Nav, Kongsberg 14208, img#9) (B)	
21-Apr-2023	09:05:52	3697	AA_ENV_15			Camera	63	533426	6444236	533430	6444276	-4	-40	40	6	(Raw Nav, Kongsberg 14208, img#10) (B)	
21-Apr-2023	09:06:04	3698	AA_ENV_15			Camera	63	533426	6444237	533430	6444276	-4	-39	39	6	(Raw Nav, Kongsberg 14208, img#11) (B)	
21-Apr-2023	09:06:15	3699	AA_ENV_15			Camera	63	533427	6444239	533430	6444276	-3	-37	37	5	(Raw Nav, Kongsberg 14208, img#12) (B)	
21-Apr-2023	09:06:20	3700	AA_ENV_15			Camera	63	533427	6444240	533430	6444276	-3	-36	36	5	(Raw Nav, Kongsberg 14208, img#13) (B)	
21-Apr-2023	09:06:38	3701	AA_ENV_15			Camera	63	533428	6444243	533430	6444276	-2	-33	33	4	(Raw Nav, Kongsberg 14208, img#14) (B)	
21-Apr-2023	09:07:06	3702	AA_ENV_15			Camera	63	533428	6444246	533430	6444276	-2	-30	30	4	(Raw Nav, Kongsberg 14208, img#15) (B)	
21-Apr-2023	09:07:28	3703	AA_ENV_15			Camera	63	533428	6444250	533430	6444276	-2	-26	26	5	(Raw Nav, Kongsberg 14208, img#16) (B)	
21-Apr-2023	09:08:14	3704	AA_ENV_15			Camera	63	533428	6444255	533430	6444276	-2	-21	21	6	(Raw Nav, Kongsberg 14208, img#17) (B)	
21-Apr-2023	09:08:30	3705	AA_ENV_15			Camera	63	533428	6444258	533430	6444276	-2	-18	18	7	(Raw Nav, Kongsberg 14208, img#18) (B)	
21-Apr-2023	09:08:57	3706	AA_ENV_15			Camera	63	533428	6444262	533430	6444276	-2	-14	14	9	(Raw Nav, Kongsberg 14208, img#19) (B)	
21-Apr-2023	09:09:21	3707	AA_ENV_15			Camera	63	533427	6444266	533430	6444276	-3	-10	10	19	(Raw Nav, Kongsberg 14208, img#20) (B)	
21-Apr-2023	09:09:45	3708	AA_ENV_15			Camera	63	533427	6444269	533430	6444276	-3	-7	7	26	(Raw Nav, Kongsberg 14208, img#21) (B)	
21-Apr-2023	09:09:56	3709	AA_ENV_15			Camera	63	533428	6444271	533430	6444276	-2	-5	5	26	(Raw Nav, Kongsberg 14208, img#22) (B)	
21-Apr-2023	09:10:12	3710	AA_ENV_15			Camera	63	533429	6444272	533430	6444276	-1	-4	4	19	(Raw Nav, Kongsberg 14208, img#23) (B)	
21-Apr-2023	09:10:48	3711	AA_ENV_15			Camera	63	533432	6444275	533430	6444276	2	-1	2	-69	(Raw Nav, Kongsberg 14208, img#24) (B)	
21-Apr-2023	09:11:02	3712	AA_ENV_15			Camera	63	533432	6444276	533430	6444276	2	0	2	-101	(Raw Nav, Kongsberg 14208, img#25) (B)	
21-Apr-2023	09:11:21	3713	AA_ENV_15			Camera	63	533432	6444279	533430	6444276	2	3	4	-153	(Raw Nav, Kongsberg 14208, img#26) (B)	
21-Apr-2023	09:11:32	3714	AA_ENV_15			Camera	63	533432	6444280	533430	6444276	2	4	5	-158	(Raw Nav, Kongsberg 14208, img#27) (B)	
21-Apr-2023	09:11:43	3715	AA_ENV_15			Camera	63	533432	6444282	533430	6444276	2	6	7	-165	(Raw Nav, Kongsberg 14208, img#28) (B)	
21-Apr-2023	09:12:02	3716	AA_ENV_15			Camera	63	533431	6444284	533430	6444276	1	8	8	-175	(Raw Nav, Kongsberg 14208, img#29) (B)	
21-Apr-2023		3717	AA_ENV_15			Camera									Lost connection with EELS, Photo but no Fix taken		
21-Apr-2023		3718	AA_ENV_15			Camera									Lost connection with EELS, Photo but no Fix taken		
21-Apr-2023		3719	AA_ENV_15			Camera									Lost connection with EELS, Photo but no Fix taken		
21-Apr-2023		3720	AA_ENV_15			Camera									Lost connection with EELS, Photo but no Fix taken		
21-Apr-2023	09:13:56	3721	AA_ENV_15			Camera	63	533431	6444299	533430	6444276	1	23	23	-178	(Raw Nav, Kongsberg 14208, img#34) (B)	
21-Apr-2023	09:14:16	3722	AA_ENV_15			Camera	63	533431	6444301	533430	6444276	1	25	25	-178	(Raw Nav, Kongsberg 14208, img#35) (B)	
21-Apr-2023	09:14:38	3723	AA_ENV_15			Camera	63	533432	6444304	533430	6444276	2	28	28	-177	(Raw Nav, Kongsberg 14208, img#36) (B)	
21-Apr-2023	09:14:47	3724	AA_ENV_15			Camera	63	533432	6444305	533430	6444276	2	29	29	-177	(Raw Nav, Kongsberg 14208, img#37) (B)	
21-Apr-2023	09:14:52	3725	AA_ENV_15			Camera	63	533432	6444306	533430	6444276	2	30	30	-177	(Raw Nav, Kongsberg 14208, img#38) (B)	
21-Apr-2023	09:15:14	3726	AA_ENV_15			Camera	63	533432	6444309	533430	6444276	2	33	33	-177	(Raw Nav, Kongsberg 14208, img#39) (B)	

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
21-Apr-2023	09:15:31	3727	AA_ENV_15			Camera	63	533432	6444313	533430	6444276	2	37	37	-177		(Raw Nav, Kongsberg 14208, img#40) (B)
21-Apr-2023	09:15:40	3728	AA_ENV_15			Camera	63	533432	6444314	533430	6444276	2	38	38	-177		(Raw Nav, Kongsberg 14208, img#41) (B)
21-Apr-2023	09:17:21	3729	AA_ENV_15			Camera	62	533423	6444320	533430	6444276	-8	44	45	170		(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
21-Apr-2023	09:17:27	3730	AA_ENV_15			Camera	62	533422	6444319	533430	6444276	-9	43	44	169		(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
21-Apr-2023	09:17:37	3731	AA_ENV_15			Camera	62	533421	6444316	533430	6444276	-10	41	42	167		(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
21-Apr-2023	09:17:47	3732	AA_ENV_15			Camera	62	533420	6444313	533430	6444276	-10	38	39	165		(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
21-Apr-2023	09:17:54	3733	AA_ENV_15			Camera	62	533420	6444312	533430	6444276	-10	36	37	164		(Corr'd Nav, Kongsberg 14208, img#46) (B) (T.A)
21-Apr-2023	09:18:04	3734	AA_ENV_15			Camera	62	533420	6444309	533430	6444276	-10	33	35	164		(Corr'd Nav, Kongsberg 14208, img#47) (B) (T.A)
21-Apr-2023	09:18:14	3735	AA_ENV_15			Camera	62	533421	6444306	533430	6444276	-9	30	31	164		(Corr'd Nav, Kongsberg 14208, img#48) (B) (T.A)
21-Apr-2023	09:19:09	3736	AA_ENV_15			Camera	62	533425	6444300	533430	6444276	-5	24	25	168		(Corr'd Nav, Kongsberg 14208, img#49) (B) (T.A)
21-Apr-2023	09:19:22	3737	AA_ENV_15			Camera	62	533427	6444300	533430	6444276	-4	25	25	171		(Corr'd Nav, Kongsberg 14208, img#50) (B) (T.A)
21-Apr-2023	09:19:51	3738	AA_ENV_15			Camera	62	533428	6444302	533430	6444276	-2	27	27	176		(Corr'd Nav, Kongsberg 14208, img#51) (B) (T.A)
21-Apr-2023	09:20:44	3739	AA_ENV_15			Camera	62	533431	6444307	533430	6444276	0	32	31	-179		(Corr'd Nav, Kongsberg 14208, img#52) (B) (T.A)
21-Apr-2023	09:20:59	3740	AA_ENV_15			Camera	62	533431	6444309	533430	6444276	1	33	33	-178		(Corr'd Nav, Kongsberg 14208, img#53) (B) (T.A)
21-Apr-2023	09:21:18	3741	AA_ENV_15			Camera	62	533432	6444312	533430	6444276	2	37	37	-177		(Corr'd Nav, Kongsberg 14208, img#54) (B) (T.A)
21-Apr-2023	09:21:38	3742	AA_ENV_15			Camera	62	533433	6444315	533430	6444276	2	40	40	-177		(Corr'd Nav, Kongsberg 14208, img#55) (B) (T.A)
21-Apr-2023	09:21:59	3743	AA_ENV_15			Camera	62	533433	6444319	533430	6444276	2	43	43	-177		(Corr'd Nav, Kongsberg 14208, img#56) (B) (T.A)
21-Apr-2023	09:22:13	3744	AA_ENV_15			Camera	62	533432	6444321	533430	6444276	2	46	46	-178		(Corr'd Nav, Kongsberg 14208, img#57) (B) (T.A)
21-Apr-2023	09:22:21	3745	AA_ENV_15			Camera	62	533432	6444323	533430	6444276	2	47	47	-178		(Corr'd Nav, Kongsberg 14208, img#58) (B) (T.A)
21-Apr-2023	11:12:51	3746	AA_ENV_10			Camera	59	530887	6442069	530892	6442123	-5	-54	54	5		(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	11:13:32	3747	AA_ENV_10			Camera	59	530887	6442072	530892	6442123	-5	-50	51	6		(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
21-Apr-2023	11:13:56	3748	AA_ENV_10			Camera	59	530888	6442075	530892	6442123	-4	-48	48	5		(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	11:14:17	3749	AA_ENV_10			Camera	59	530889	6442077	530892	6442123	-3	-45	46	4		(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	11:14:48	3750	AA_ENV_10			Camera	59	530891	6442081	530892	6442123	-2	-42	42	2		(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	11:15:15	3751	AA_ENV_10			Camera	59	530892	6442085	530892	6442123	0	-38	38	0		(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	11:15:33	3752	AA_ENV_10			Camera	59	530893	6442087	530892	6442123	0	-36	36	-1		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	11:15:58	3753	AA_ENV_10			Camera	59	530893	6442091	530892	6442123	1	-32	32	-1		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	11:16:10	3754	AA_ENV_10			Camera	59	530893	6442093	530892	6442123	1	-30	30	-2		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	11:16:50	3755	AA_ENV_10			Camera	59	530893	6442099	530892	6442123	0	-24	24	-1		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	11:17:04	3756	AA_ENV_10			Camera	59	530892	6442101	530892	6442123	0	-21	21	1		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	11:17:43	3757	AA_ENV_10			Camera	59	530891	6442107	530892	6442123	-2	-16	16	6		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	11:17:52	3758	AA_ENV_10			Camera	59	530890	6442108	530892	6442123	-2	-15	15	7		(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	11:18:21	3759	AA_ENV_10			Camera	59	530890	6442111	530892	6442123	-2	-12	12	12		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	11:18:37	3760	AA_ENV_10			Camera	59	530890	6442113	530892	6442123	-2	-10	10	14		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	11:18:56	3761	AA_ENV_10			Camera	59	530891	6442115	530892	6442123	-2	-8	8	11		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	11:19:12	3762	AA_ENV_10			Camera	59	530891	6442116	530892	6442123	-1	-6	7	7		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	11:19:22	3763	AA_ENV_10			Camera	59	530892	6442117	530892	6442123	0	-6	6	4		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
21-Apr-2023	11:19:44	3764	AA_ENV_10			Camera	59	530893	6442119	530892	6442123	1	-4	4	-13	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	11:19:55	3765	AA_ENV_10			Camera	59	530894	6442120	530892	6442123	1	-2	3	-32	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	11:20:18	3766	AA_ENV_10			Camera	59	530894	6442123	530892	6442123	2	0	2	-102	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	11:20:25	3767	AA_ENV_10			Camera	59	530894	6442124	530892	6442123	2	1	2	-127	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	11:20:43	3768	AA_ENV_10			Camera	59	530894	6442127	530892	6442123	2	4	4	-159	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	11:20:54	3769	AA_ENV_10			Camera	59	530894	6442128	530892	6442123	2	5	6	-160	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	11:21:17	3770	AA_ENV_10			Camera	59	530895	6442132	530892	6442123	2	9	9	-166	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	11:21:26	3771	AA_ENV_10			Camera	59	530895	6442133	530892	6442123	3	11	11	-166	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	11:21:38	3772	AA_ENV_10			Camera	59	530895	6442135	530892	6442123	3	12	13	-168	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	11:21:50	3773	AA_ENV_10			Camera	59	530895	6442137	530892	6442123	3	14	14	-169	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	11:21:59	3774	AA_ENV_10			Camera	59	530895	6442138	530892	6442123	3	16	16	-171	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A) # No photo taken
21-Apr-2023	11:22:11	3775	AA_ENV_10			Camera	59	530895	6442140	530892	6442123	2	18	18	-172	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	11:22:24	3776	AA_ENV_10			Camera	59	530895	6442142	530892	6442123	3	19	20	-172	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	11:22:35	3777	AA_ENV_10			Camera	59	530895	6442144	530892	6442123	2	21	21	-173	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	11:22:45	3778	AA_ENV_10			Camera	59	530895	6442146	530892	6442123	2	23	23	-174	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	11:23:04	3779	AA_ENV_10			Camera	59	530895	6442148	530892	6442123	3	26	26	-174	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	11:23:11	3780	AA_ENV_10			Camera	59	530895	6442149	530892	6442123	2	27	27	-175	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	11:23:29	3781	AA_ENV_10			Camera	59	530895	6442152	530892	6442123	3	29	29	-175	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	11:23:41	3782	AA_ENV_10			Camera	59	530895	6442153	530892	6442123	3	31	31	-175	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	11:23:51	3783	AA_ENV_10			Camera	59	530895	6442155	530892	6442123	3	32	32	-175	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	11:24:10	3784	AA_ENV_10			Camera	59	530895	6442157	530892	6442123	3	34	34	-175	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	11:24:43	3785	AA_ENV_10			Camera	59	530895	6442160	530892	6442123	3	37	37	-175	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	11:25:21	3786	AA_ENV_10			Camera	59	530896	6442163	530892	6442123	4	41	41	-174	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
21-Apr-2023	11:25:37	3787	AA_ENV_10			Camera	59	530897	6442165	530892	6442123	5	42	42	-174	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
21-Apr-2023	11:26:16	3788	AA_ENV_10			Camera	59	530898	6442170	530892	6442123	6	47	47	-173	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
21-Apr-2023	12:30:22	3789	AA_ENV_26			Camera	66	532580	6439672	532588	6439724	-8	-52	53	8	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	12:30:32	3790	AA_ENV_26			Camera	66	532580	6439673	532588	6439724	-7	-51	51	8	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
21-Apr-2023	12:30:46	3791	AA_ENV_26			Camera	66	532580	6439675	532588	6439724	-7	-49	49	8	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	12:31:14	3792	AA_ENV_26			Camera	66	532581	6439679	532588	6439724	-7	-45	46	8	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	12:31:52	3793	AA_ENV_26			Camera	66	532583	6439683	532588	6439724	-5	-41	42	7	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	12:32:23	3794	AA_ENV_26			Camera	66	532585	6439686	532588	6439724	-3	-38	38	4	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	12:32:39	3795	AA_ENV_26			Camera	66	532586	6439688	532588	6439724	-2	-36	36	3	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	12:32:55	3796	AA_ENV_26			Camera	66	532586	6439690	532588	6439724	-1	-34	34	2	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	12:33:41	3797	AA_ENV_26			Camera	66	532588	6439697	532588	6439724	0	-27	27	-1	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	12:34:06	3798	AA_ENV_26			Camera	66	532588	6439702	532588	6439724	0	-22	22	0	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	12:34:27	3799	AA_ENV_26			Camera	66	532587	6439706	532588	6439724	-1	-18	18	3	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	12:34:37	3800	AA_ENV_26			Camera	66	532586	6439708	532588	6439724	-1	-16	16	5	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT	
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks
								Easting	Northing	Easting	Northing	dE	dN	Range		
21-Apr-2023	12:34:52	3801	AA_ENV_26			Camera	66	532586	6439712	532588	6439724	-2	-12	13	7	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	12:35:17	3802	AA_ENV_26			Camera	66	532586	6439716	532588	6439724	-2	-9	9	11	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	12:35:25	3803	AA_ENV_26			Camera	66	532586	6439716	532588	6439724	-1	-8	8	10	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	12:35:37	3804	AA_ENV_26			Camera	66	532587	6439718	532588	6439724	-1	-6	6	7	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	12:35:49	3805	AA_ENV_26			Camera	66	532588	6439719	532588	6439724	0	-5	5	-2	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	12:36:05	3806	AA_ENV_26			Camera	66	532589	6439721	532588	6439724	2	-3	4	-29	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	12:36:15	3807	AA_ENV_26			Camera	66	532590	6439722	532588	6439724	3	-2	3	-52	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	12:36:22	3808	AA_ENV_26			Camera	66	532591	6439723	532588	6439724	3	-2	4	-65	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	12:36:33	3809	AA_ENV_26			Camera	66	532591	6439724	532588	6439724	3	0	3	-95	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	12:36:46	3810	AA_ENV_26			Camera	66	532591	6439726	532588	6439724	3	2	4	-122	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	12:36:56	3811	AA_ENV_26			Camera	68	532592	6439728	532588	6439724	4	4	6	-131	(Raw Nav, Kongsberg 14208, img#23) (B)
21-Apr-2023	12:37:09	3811a	AA_ENV_26			Camera	66	532592	6439731	532588	6439724	4	6	8	-149	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A) #Double Fix
21-Apr-2023	12:37:18	3812	AA_ENV_26			Camera	66	532592	6439732	532588	6439724	4	8	9	-153	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	12:37:38	3813	AA_ENV_26			Camera	66	532593	6439736	532588	6439724	5	12	13	-157	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	12:37:56	3814	AA_ENV_26			Camera	66	532593	6439739	532588	6439724	6	15	16	-159	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	12:38:05	3815	AA_ENV_26			Camera	66	532593	6439740	532588	6439724	5	16	17	-161	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	12:38:20	3816	AA_ENV_26			Camera	66	532594	6439743	532588	6439724	6	19	20	-163	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	12:38:35	3817	AA_ENV_26			Camera	66	532594	6439746	532588	6439724	6	21	22	-164	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	12:39:05	3818	AA_ENV_26			Camera	66	532593	6439750	532588	6439724	6	26	27	-168	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	12:39:19	3819	AA_ENV_26			Camera	66	532593	6439752	532588	6439724	5	28	29	-169	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	12:39:29	3820	AA_ENV_26			Camera	66	532593	6439754	532588	6439724	6	30	30	-169	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	12:39:42	3821	AA_ENV_26			Camera	66	532594	6439754	532588	6439724	7	30	31	-168	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	12:40:08	3822	AA_ENV_26			Camera	66	532594	6439757	532588	6439724	6	33	33	-169	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	12:40:20	3823	AA_ENV_26			Camera	66	532595	6439757	532588	6439724	7	33	34	-168	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	12:40:54	3824	AA_ENV_26			Camera	66	532597	6439760	532588	6439724	9	36	37	-166	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	12:41:19	3825	AA_ENV_26			Camera	66	532597	6439762	532588	6439724	9	38	39	-167	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	12:41:29	3826	AA_ENV_26			Camera	66	532597	6439764	532588	6439724	10	40	41	-166	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	12:42:00	3827	AA_ENV_26			Camera	66	532597	6439768	532588	6439724	10	43	45	-167	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	12:42:13	3828	AA_ENV_26			Camera	66	532598	6439769	532588	6439724	10	45	46	-167	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
21-Apr-2023	15:45:12	3829	AA_ENV_12			Camera	70	531918	6433860	531953	6433903	-35	-44	56	39	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	15:45:22	3830	AA_ENV_12			Camera	70	531919	6433861	531953	6433903	-34	-42	54	39	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
21-Apr-2023	15:45:40	3831	AA_ENV_12			Camera	70	531921	6433864	531953	6433903	-32	-40	51	39	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	15:45:49	3832	AA_ENV_12			Camera	70	531922	6433866	531953	6433903	-31	-38	49	40	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	15:46:21	3833	AA_ENV_12			Camera	70	531925	6433869	531953	6433903	-28	-35	45	39	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	15:46:39	3834	AA_ENV_12			Camera	70	531926	6433871	531953	6433903	-27	-32	42	40	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	15:46:55	3835	AA_ENV_12			Camera	70	531928	6433873	531953	6433903	-26	-31	40	40	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	15:47:54	3836	AA_ENV_12			Camera	70	531931	6433880	531953	6433903	-22	-23	32	44	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
21-Apr-2023	15:48:25	3837	AA_ENV_12			Camera	70	531933	6433882	531953	6433903	-20	-21	29	44	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	15:48:42	3838	AA_ENV_12			Camera	70	531935	6433885	531953	6433903	-19	-19	27	45	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	15:49:21	3839	AA_ENV_12			Camera	69	531939	6433888	531953	6433903	-14	-16	21	43	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	15:49:58	3840	AA_ENV_12			Camera	70	531942	6433890	531953	6433903	-12	-13	18	41	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	15:50:24	3841	AA_ENV_12			Camera	70	531946	6433893	531953	6433903	-8	-11	13	36	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	15:51:16	3842	AA_ENV_12			Camera	69	531950	6433900	531953	6433903	-3	-3	5	40	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	15:51:23	3843	AA_ENV_12			Camera	70	531951	6433901	531953	6433903	-3	-2	3	50	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	15:51:33	3844	AA_ENV_12			Camera	69	531952	6433903	531953	6433903	-2	-1	2	65	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	15:51:47	3845	AA_ENV_12			Camera	69	531953	6433904	531953	6433903	0	0	1	133	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	15:52:11	3846	AA_ENV_12			Camera	69	531955	6433905	531953	6433903	1	2	2	-139	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	15:52:18	3847	AA_ENV_12			Camera	69	531956	6433906	531953	6433903	2	2	3	-135	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	15:52:29	3848	AA_ENV_12			Camera	69	531957	6433907	531953	6433903	4	3	5	-132	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	15:53:03	3849	AA_ENV_12			Camera	69	531960	6433909	531953	6433903	6	6	9	-133	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	15:53:18	3850	AA_ENV_12			Camera	69	531962	6433911	531953	6433903	9	8	12	-132	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	15:53:27	3851	AA_ENV_12			Camera	70	531963	6433911	531953	6433903	9	8	12	-131	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	15:53:40	3852	AA_ENV_12			Camera	69	531964	6433912	531953	6433903	10	9	14	-131	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	15:53:56	3853	AA_ENV_12			Camera	69	531966	6433914	531953	6433903	13	11	16	-131	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	15:54:06	3854	AA_ENV_12			Camera	69	531966	6433915	531953	6433903	13	12	18	-131	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	15:54:20	3855	AA_ENV_12			Camera	69	531967	6433916	531953	6433903	14	12	19	-131	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	15:54:29	3856	AA_ENV_12			Camera	69	531968	6433916	531953	6433903	15	13	20	-130	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	15:54:40	3857	AA_ENV_12			Camera	69	531969	6433916	531953	6433903	16	13	20	-130	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	15:54:51	3858	AA_ENV_12			Camera	69	531970	6433917	531953	6433903	16	14	21	-130	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	15:55:06	3859	AA_ENV_12			Camera	69	531971	6433919	531953	6433903	18	15	23	-131	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	15:55:20	3860	AA_ENV_12			Camera	69	531973	6433920	531953	6433903	20	17	26	-130	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	15:55:33	3861	AA_ENV_12			Camera	69	531974	6433921	531953	6433903	21	18	27	-130	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	15:55:46	3862	AA_ENV_12			Camera	69	531975	6433922	531953	6433903	22	18	28	-130	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	15:56:07	3863	AA_ENV_12			Camera	69	531978	6433923	531953	6433903	24	19	31	-129	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	15:56:21	3864	AA_ENV_12			Camera	69	531978	6433924	531953	6433903	25	21	33	-129	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	15:56:35	3865	AA_ENV_12			Camera	69	531981	6433926	531953	6433903	28	23	36	-129	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	15:56:58	3866	AA_ENV_12			Camera	69	531983	6433929	531953	6433903	30	25	39	-130	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	15:57:12	3867	AA_ENV_12			Camera	69	531985	6433932	531953	6433903	31	28	42	-132	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	15:57:42	3868	AA_ENV_12			Camera	69	531988	6433936	531953	6433903	34	33	47	-134	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	17:35:19	3869	AA_ENV_30			Camera	77	535551	6436092	535609	6436089	-58	3	58	93	(Raw Nav, Kongsberg 14208, img#1) (B)
21-Apr-2023	17:35:35	3870	AA_ENV_30			Camera	78	535553	6436092	535609	6436089	-56	3	57	94	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
21-Apr-2023	17:36:10	3871	AA_ENV_30			Camera	78	535559	6436093	535609	6436089	-51	4	51	94	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	17:36:30	3872	AA_ENV_30			Camera	78	535562	6436094	535609	6436089	-47	5	47	96	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	17:37:08	3873	AA_ENV_30			Camera	78	535567	6436093	535609	6436089	-42	4	42	95	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
21-Apr-2023	17:37:20	3874	AA_ENV_30			Camera	78	535569	6436093	535609	6436089	-41	4	41	95	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	17:37:41	3875	AA_ENV_30			Camera	78	535572	6436092	535609	6436089	-37	3	37	94	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	17:37:58	3876	AA_ENV_30			Camera	78	535574	6436091	535609	6436089	-35	2	35	94	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	17:38:23	3877	AA_ENV_30			Camera	78	535576	6436091	535609	6436089	-33	2	33	94	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	17:38:38	3878	AA_ENV_30			Camera	78	535578	6436091	535609	6436089	-31	2	31	94	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	17:38:46	3879	AA_ENV_30			Camera	78	535579	6436090	535609	6436089	-30	1	30	93	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	17:39:23	3880	AA_ENV_30			Camera	78	535583	6436090	535609	6436089	-26	1	26	92	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	17:39:59	3881	AA_ENV_30			Camera	78	535588	6436090	535609	6436089	-21	1	21	93	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	17:40:30	3882	AA_ENV_30			Camera	78	535593	6436089	535609	6436089	-16	1	16	92	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	17:41:08	3883	AA_ENV_30			Camera	78	535597	6436091	535609	6436089	-12	2	12	99	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	17:41:48	3884	AA_ENV_30			Camera	78	535602	6436091	535609	6436089	-7	2	8	108	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	17:42:06	3885	AA_ENV_30			Camera	78	535605	6436091	535609	6436089	-4	2	5	111	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	17:42:30	3886	AA_ENV_30			Camera	78	535608	6436091	535609	6436089	-1	2	3	153	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	17:42:37	3887	AA_ENV_30			Camera	78	535609	6436091	535609	6436089	0	2	2	173	(Raw Nav, Kongsberg 14208, img#19) (B)
21-Apr-2023	17:42:48	3888	AA_ENV_30			Camera	78	535611	6436091	535609	6436089	2	2	3	-141	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	17:43:06	3889	AA_ENV_30			Camera	78	535614	6436091	535609	6436089	5	2	5	-109	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	17:43:16	3890	AA_ENV_30			Camera	78	535615	6436091	535609	6436089	6	2	6	-110	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	17:43:25	3891	AA_ENV_30			Camera	78	535616	6436091	535609	6436089	7	2	7	-107	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	17:43:48	3892	AA_ENV_30			Camera	78	535619	6436091	535609	6436089	10	2	10	-100	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	17:44:02	3893	AA_ENV_30			Camera	78	535621	6436091	535609	6436089	11	2	12	-100	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	17:44:27	3894	AA_ENV_30			Camera	78	535624	6436090	535609	6436089	15	1	15	-95	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	17:44:37	3895	AA_ENV_30			Camera	78	535625	6436090	535609	6436089	16	1	16	-93	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	17:44:54	3896	AA_ENV_30			Camera	78	535628	6436090	535609	6436089	19	1	19	-93	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	17:45:16	3897	AA_ENV_30			Camera	78	535630	6436091	535609	6436089	21	2	21	-95	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	17:45:29	3898	AA_ENV_30			Camera	78	535632	6436091	535609	6436089	22	2	22	-96	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	17:46:07	3899	AA_ENV_30			Camera	78	535636	6436091	535609	6436089	27	2	27	-95	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	17:46:14	3900	AA_ENV_30			Camera	78	535637	6436091	535609	6436089	27	2	27	-94	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	17:46:35	3901	AA_ENV_30			Camera	78	535640	6436090	535609	6436089	30	1	30	-92	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	17:47:03	3902	AA_ENV_30			Camera	78	535642	6436090	535609	6436089	33	1	33	-92	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	17:47:25	3903	AA_ENV_30			Camera	78	535644	6436089	535609	6436089	35	0	35	-91	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	17:47:45	3904	AA_ENV_30			Camera	78	535647	6436089	535609	6436089	38	0	38	-90	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	17:48:16	3905	AA_ENV_30			Camera	78	535650	6436092	535609	6436089	41	3	41	-94	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	17:48:40	3906	AA_ENV_30			Camera	78	535653	6436092	535609	6436089	44	4	44	-95	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	17:49:06	3907	AA_ENV_30			Camera	78	535655	6436092	535609	6436089	46	3	46	-94	(Raw Nav, Kongsberg 14208, img#39) (B)
21-Apr-2023	17:49:19	3908	AA_ENV_30			Camera	78	535657	6436092	535609	6436089	47	3	48	-93	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	18:56:10	3909	AA_ENV_42			Camera	64	536536	6439478	536595	6439492	-60	-14	61	77	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	18:56:48	3910	AA_ENV_42			Camera	64	536542	6439478	536595	6439492	-53	-14	55	76	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
21-Apr-2023	18:57:17	3911	AA_ENV_42			Camera	64	536546	6439479	536595	6439492	-49	-13	51	75	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	18:57:26	3912	AA_ENV_42			Camera	64	536548	6439479	536595	6439492	-48	-13	50	75	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
21-Apr-2023	18:57:52	3913	AA_ENV_42			Camera	64	536551	6439478	536595	6439492	-44	-13	46	73	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	18:58:14	3914	AA_ENV_42			Camera	64	536554	6439478	536595	6439492	-41	-14	43	72	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	18:58:31	3915	AA_ENV_42			Camera	64	536557	6439478	536595	6439492	-39	-14	41	71	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	18:58:48	3916	AA_ENV_42			Camera	64	536559	6439479	536595	6439492	-37	-13	39	70	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	18:59:01	3917	AA_ENV_42			Camera	64	536561	6439479	536595	6439492	-35	-13	37	69	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	18:59:29	3918	AA_ENV_42			Camera	64	536565	6439480	536595	6439492	-30	-12	32	69	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	18:59:53	3919	AA_ENV_42			Camera	64	536570	6439481	536595	6439492	-26	-11	28	67	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	19:00:46	3920	AA_ENV_42			Camera	64	536574	6439483	536595	6439492	-22	-9	24	67	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	19:01:35	3921	AA_ENV_42			Camera	64	536578	6439484	536595	6439492	-17	-8	19	65	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	19:01:55	3922	AA_ENV_42			Camera	64	536581	6439485	536595	6439492	-15	-7	16	64	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	19:02:32	3923	AA_ENV_42			Camera	64	536584	6439485	536595	6439492	-11	-7	13	58	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	19:02:44	3924	AA_ENV_42			Camera	64	536586	6439485	536595	6439492	-9	-7	12	53	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	19:03:29	3925	AA_ENV_42			Camera	64	536593	6439486	536595	6439492	-2	-6	6	20	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	19:03:36	3926	AA_ENV_42			Camera	64	536595	6439486	536595	6439492	0	-5	5	4	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	19:03:45	3927	AA_ENV_42			Camera	64	536596	6439487	536595	6439492	1	-5	5	-11	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	19:03:55	3928	AA_ENV_42			Camera	64	536598	6439488	536595	6439492	3	-4	5	-34	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	19:04:07	3929	AA_ENV_42			Camera	64	536600	6439488	536595	6439492	5	-4	6	-51	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	19:04:20	3930	AA_ENV_42			Camera	64	536602	6439489	536595	6439492	6	-3	7	-62	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	19:04:32	3931	AA_ENV_42			Camera	64	536603	6439489	536595	6439492	8	-3	9	-69	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	19:04:52	3932	AA_ENV_42			Camera	64	536607	6439490	536595	6439492	11	-2	11	-81	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	19:05:02	3933	AA_ENV_42			Camera	64	536608	6439490	536595	6439492	12	-2	13	-81	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	19:05:15	3934	AA_ENV_42			Camera	64	536609	6439491	536595	6439492	14	-1	14	-85	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	19:05:33	3935	AA_ENV_42			Camera	64	536612	6439490	536595	6439492	17	-2	17	-84	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	19:05:48	3936	AA_ENV_42			Camera	64	536615	6439492	536595	6439492	19	0	19	-90	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	19:06:05	3937	AA_ENV_42			Camera	64	536617	6439493	536595	6439492	22	1	22	-93	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	19:06:23	3938	AA_ENV_42			Camera	64	536620	6439494	536595	6439492	25	2	25	-96	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	19:06:38	3939	AA_ENV_42			Camera	64	536622	6439495	536595	6439492	27	3	27	-96	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	19:07:07	3940	AA_ENV_42			Camera	64	536626	6439497	536595	6439492	31	5	31	-99	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	19:07:17	3941	AA_ENV_42			Camera	64	536628	6439498	536595	6439492	32	6	33	-100	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	19:07:24	3942	AA_ENV_42			Camera	64	536629	6439498	536595	6439492	33	6	34	-101	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	19:07:39	3943	AA_ENV_42			Camera	64	536631	6439499	536595	6439492	35	7	36	-102	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	19:07:54	3944	AA_ENV_42			Camera	64	536632	6439501	536595	6439492	36	9	38	-104	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	19:08:17	3945	AA_ENV_42			Camera	64	536634	6439502	536595	6439492	39	10	40	-105	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	19:08:33	3946	AA_ENV_42			Camera	64	536636	6439504	536595	6439492	41	12	43	-107	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	19:08:39	3947	AA_ENV_42			Camera	64	536637	6439505	536595	6439492	42	13	43	-107	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
21-Apr-2023	19:08:49	3948	AA_ENV_42			Camera	64	Easting	Northing	Easting	Northing	dE	dN	Range	Bearing	
21-Apr-2023	19:48:44	3949	AA_ENV_05			Camera	63	535602	6440689	535650	6440720	-48	-31	57	57	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	19:49:16	3950	AA_ENV_05			Camera	63	535607	6440692	535650	6440720	-43	-28	51	57	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
21-Apr-2023	19:49:44	3951	AA_ENV_05			Camera	63	535610	6440694	535650	6440720	-40	-26	48	57	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
21-Apr-2023	19:50:03	3952	AA_ENV_05			Camera	63	535612	6440694	535650	6440720	-38	-26	46	56	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
21-Apr-2023	19:50:22	3953	AA_ENV_05			Camera	63	535614	6440696	535650	6440720	-35	-24	43	56	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
21-Apr-2023	19:50:55	3954	AA_ENV_05			Camera	63	535619	6440698	535650	6440720	-31	-22	38	54	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	19:51:19	3955	AA_ENV_05			Camera	63	535622	6440699	535650	6440720	-27	-21	34	53	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	19:51:31	3956	AA_ENV_05			Camera	63	535624	6440700	535650	6440720	-26	-20	33	52	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	19:51:41	3957	AA_ENV_05			Camera	63	535625	6440702	535650	6440720	-25	-19	31	53	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
21-Apr-2023	19:51:50	3958	AA_ENV_05			Camera	63	535626	6440702	535650	6440720	-24	-18	30	52	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	19:52:10	3959	AA_ENV_05			Camera	63	535629	6440704	535650	6440720	-21	-16	26	52	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	19:52:28	3960	AA_ENV_05			Camera	63	535630	6440705	535650	6440720	-20	-15	25	52	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	19:52:52	3961	AA_ENV_05			Camera	63	535634	6440707	535650	6440720	-16	-13	21	52	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	19:53:11	3962	AA_ENV_05			Camera	63	535635	6440709	535650	6440720	-14	-11	18	52	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	19:53:45	3963	AA_ENV_05			Camera	63	535639	6440713	535650	6440720	-11	-7	13	56	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	19:53:58	3964	AA_ENV_05			Camera	63	535640	6440714	535650	6440720	-10	-6	12	56	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	19:54:19	3965	AA_ENV_05			Camera	63	535642	6440715	535650	6440720	-8	-5	9	61	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	19:54:25	3966	AA_ENV_05			Camera	63	535642	6440716	535650	6440720	-8	-4	9	62	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	19:54:42	3967	AA_ENV_05			Camera	63	535643	6440717	535650	6440720	-7	-3	8	64	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	19:55:05	3968	AA_ENV_05			Camera	63	535645	6440718	535650	6440720	-5	-2	6	70	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	19:55:18	3969	AA_ENV_05			Camera	63	535646	6440719	535650	6440720	-4	-1	4	74	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	19:55:28	3970	AA_ENV_05			Camera	63	535646	6440720	535650	6440720	-3	0	3	88	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	19:55:40	3971	AA_ENV_05			Camera	63	535647	6440721	535650	6440720	-3	1	3	102	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	19:55:49	3972	AA_ENV_05			Camera	63	535648	6440721	535650	6440720	-2	1	2	117	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	19:56:41	3973	AA_ENV_05			Camera	63	535650	6440722	535650	6440720	0	2	2	-173	(Raw Nav, Kongsberg 14208, img#25) (B)
21-Apr-2023	19:57:01	3974	AA_ENV_05			Camera	63	535652	6440724	535650	6440720	3	4	5	-147	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	19:57:13	3975	AA_ENV_05			Camera	63	535653	6440725	535650	6440720	4	5	6	-145	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
21-Apr-2023	19:57:21	3976	AA_ENV_05			Camera	63	535655	6440727	535650	6440720	5	7	8	-144	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	19:57:33	3977	AA_ENV_05			Camera	63	535656	6440728	535650	6440720	6	8	10	-141	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	19:57:46	3978	AA_ENV_05			Camera	63	535658	6440729	535650	6440720	8	9	12	-138	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	19:58:05	3979	AA_ENV_05			Camera	63	535661	6440731	535650	6440720	11	11	16	-136	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	19:58:47	3980	AA_ENV_05			Camera	63	535668	6440738	535650	6440720	19	18	26	-134	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	19:59:18	3981	AA_ENV_05			Camera	63	535672	6440744	535650	6440720	23	24	33	-137	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	19:59:34	3982	AA_ENV_05			Camera	63	535674	6440744	535650	6440720	24	24	34	-135	(Raw Nav, Kongsberg 14208, img#34) (B)
21-Apr-2023	19:59:53	3982a	AA_ENV_05			Camera	63	535675	6440748	535650	6440720	25	28	38	-138	Incorrect Fix number (Raw Nav, Kongsberg 14208, img#35) (B)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463					Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y					
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon			z	21.94	z	2.93				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
21-Apr-2023	20:00:14	3982b	AA_ENV_05			Camera	63	Easting	Northing	Easting	Northing	dE	dN	Range	Bearing		
21-Apr-2023	20:00:27	3982c	AA_ENV_05			Camera	63	535677	6440751	535650	6440720	27	31	41	-139		
21-Apr-2023	20:00:49	3982d	AA_ENV_05			Camera	63	535678	6440753	535650	6440720	28	33	43	-139		
21-Apr-2023	20:01:01	3982e	AA_ENV_05			Camera	63	535680	6440755	535650	6440720	30	35	46	-139		
21-Apr-2023	21:13:11	3983	AA_ENV_25			Camera	67	535681	6440755	535650	6440720	31	35	47	-138		
21-Apr-2023	21:15:42	3984	AA_ENV_25			Camera	67	537239	6443655	537275	6443701	-36	-47	59	38	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)	
21-Apr-2023	21:15:53	3985	AA_ENV_25			Camera	67	537245	6443662	537275	6443701	-30	-40	50	37	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)	
21-Apr-2023	21:16:12	3986	AA_ENV_25			Camera	67	537245	6443663	537275	6443701	-30	-38	49	38	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)	
21-Apr-2023	21:16:28	3987	AA_ENV_25			Camera	67	537247	6443665	537275	6443701	-28	-36	46	37	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)	
21-Apr-2023	21:17:09	3988	AA_ENV_25			Camera	67	537249	6443668	537275	6443701	-26	-34	43	37	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)	
21-Apr-2023	21:17:20	3989	AA_ENV_25			Camera	67	537254	6443671	537275	6443701	-21	-30	37	36	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)	
21-Apr-2023	21:17:45	3990	AA_ENV_25			Camera	67	537255	6443674	537275	6443701	-21	-28	34	37	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)	
21-Apr-2023	21:18:22	3991	AA_ENV_25			Camera	67	537257	6443675	537275	6443701	-18	-26	32	34	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)	
21-Apr-2023	21:18:36	3992	AA_ENV_25			Camera	67	537262	6443678	537275	6443701	-14	-24	27	30	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)	
21-Apr-2023	21:18:57	3993	AA_ENV_25			Camera	67	537264	6443681	537275	6443701	-12	-21	24	29	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)	
21-Apr-2023	21:19:10	3994	AA_ENV_25			Camera	67	537265	6443683	537275	6443701	-10	-19	21	27	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)	
21-Apr-2023	21:19:19	3995	AA_ENV_25			Camera	67	537267	6443685	537275	6443701	-9	-16	18	28	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)	
21-Apr-2023	21:19:42	3996	AA_ENV_25			Camera	67	537268	6443686	537275	6443701	-7	-15	17	25	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)	
21-Apr-2023	21:20:02	3997	AA_ENV_25			Camera	67	537270	6443690	537275	6443701	-5	-12	13	23	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)	
21-Apr-2023	21:20:22	3998	AA_ENV_25			Camera	67	537272	6443693	537275	6443701	-4	-9	9	23	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)	
21-Apr-2023	21:20:28	3999	AA_ENV_25			Camera	67	537272	6443696	537275	6443701	-3	-6	6	25	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)	
21-Apr-2023	21:20:40	4000	AA_ENV_25			Camera	67	537274	6443697	537275	6443701	-1	-4	4	13	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)	
21-Apr-2023	21:20:48	4001	AA_ENV_25			Camera	67	537276	6443696	537275	6443701	1	-5	5	-13	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)	
21-Apr-2023	21:21:10	4002	AA_ENV_25			Camera	67	537276	6443700	537275	6443701	1	-1	2	-24	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)	
21-Apr-2023	21:21:18	4003	AA_ENV_25			Camera	67	537277	6443702	537275	6443701	2	1	2	-109	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)	
21-Apr-2023	21:21:28	4004	AA_ENV_25			Camera	67	537278	6443704	537275	6443701	3	3	4	-135	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)	
21-Apr-2023	21:21:41	4005	AA_ENV_25			Camera	67	537278	6443705	537275	6443701	3	4	5	-139	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)	
21-Apr-2023	21:21:55	4006	AA_ENV_25			Camera	67	537279	6443708	537275	6443701	4	7	8	-149	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)	
21-Apr-2023	21:22:17	4007	AA_ENV_25			Camera	66	537280	6443710	537275	6443701	5	8	10	-147	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)	
21-Apr-2023	21:22:27	4008	AA_ENV_25			Camera	66	537282	6443712	537275	6443701	7	11	13	-148	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)	
21-Apr-2023	21:22:42	4009	AA_ENV_25			Camera	66	537283	6443716	537275	6443701	7	15	16	-154	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)	
21-Apr-2023	21:22:58	4010	AA_ENV_25			Camera	66	537283	6443719	537275	6443701	8	17	19	-157	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)	
21-Apr-2023	21:23:05	4011	AA_ENV_25			Camera	66	537283	6443722	537275	6443701	8	21	22	-158	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)	
21-Apr-2023	21:23:28	4012	AA_ENV_25			Camera	66	537284	6443724	537275	6443701	9	23	24	-160	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)	

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463					Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y	21.94			
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon						z	2.93		
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT		
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN	Range	Bearing	
21-Apr-2023	21:23:46	4013	AA_ENV_25			Camera	66	537284	6443725	537275	6443701	9	24	25	-160	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	21:23:55	4014	AA_ENV_25			Camera	66	537285	6443725	537275	6443701	10	24	26	-156	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	21:24:25	4015	AA_ENV_25			Camera	66	537287	6443725	537275	6443701	12	23	26	-153	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	21:24:37	4016	AA_ENV_25			Camera	66	537288	6443725	537275	6443701	13	23	27	-151	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	21:24:57	4017	AA_ENV_25			Camera	66	537290	6443725	537275	6443701	15	24	28	-147	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	21:25:20	4018	AA_ENV_25			Camera	66	537294	6443728	537275	6443701	19	27	32	-145	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	21:25:37	4019	AA_ENV_25			Camera	66	537297	6443730	537275	6443701	22	29	36	-143	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	21:25:55	4020	AA_ENV_25			Camera	66	537300	6443733	537275	6443701	25	31	40	-141	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	21:26:12	4021	AA_ENV_25			Camera	66	537303	6443736	537275	6443701	28	35	45	-142	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	21:26:27	4022	AA_ENV_25			Camera	66	537304	6443740	537275	6443701	29	38	48	-143	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	23:01:09	4023	AA_ENV_16			Camera	74	539583	6444695	539559	6444756	24	-61	66	-21	(Raw Nav, Kongsberg 14208, img#1) (B)
21-Apr-2023	23:01:21	4024	AA_ENV_16			Camera	73	539584	6444694	539559	6444756	25	-62	67	-22	(Raw Nav, Kongsberg 14208, img#2) (B)
21-Apr-2023	23:01:53	4025	AA_ENV_16			Camera	73	539591	6444695	539559	6444756	32	-61	69	-28	(Raw Nav, Kongsberg 14208, img#3) (B)
21-Apr-2023	23:02:25	4026	AA_ENV_16			Camera	74	539593	6444697	539559	6444756	34	-59	68	-30	(Raw Nav, Kongsberg 14208, img#4) (B)
21-Apr-2023	23:03:00	4027	AA_ENV_16			Camera	73	539596	6444704	539559	6444756	37	-52	64	-35	(Raw Nav, Kongsberg 14208, img#5) (B)
21-Apr-2023	23:03:20	4028	AA_ENV_16			Camera	72	539596	6444709	539559	6444756	37	-47	60	-38	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
21-Apr-2023	23:03:59	4029	AA_ENV_16			Camera	72	539592	6444717	539559	6444756	33	-39	51	-40	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
21-Apr-2023	23:04:11	4030	AA_ENV_16			Camera	72	539590	6444720	539559	6444756	31	-36	48	-41	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
21-Apr-2023	23:04:17	4031	AA_ENV_16			Camera	72	539589	6444721	539559	6444756	30	-36	47	-40	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A) # No photo taken
21-Apr-2023	23:04:33	4032	AA_ENV_16			Camera	72	539587	6444724	539559	6444756	28	-32	43	-41	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
21-Apr-2023	23:04:37	4033	AA_ENV_16			Camera	72	539586	6444725	539559	6444756	27	-32	42	-41	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
21-Apr-2023	23:04:42	4034	AA_ENV_16			Camera	72	539585	6444725	539559	6444756	26	-31	40	-41	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
21-Apr-2023	23:04:52	4035	AA_ENV_16			Camera	72	539584	6444726	539559	6444756	25	-30	39	-40	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
21-Apr-2023	23:05:06	4036	AA_ENV_16			Camera	72	539583	6444727	539559	6444756	25	-29	38	-40	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
21-Apr-2023	23:05:26	4037	AA_ENV_16			Camera	72	539582	6444727	539559	6444756	23	-29	37	-39	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
21-Apr-2023	23:05:35	4038	AA_ENV_16			Camera	72	539580	6444728	539559	6444756	21	-28	35	-37	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
21-Apr-2023	23:05:41	4039	AA_ENV_16			Camera	72	539580	6444727	539559	6444756	21	-29	36	-36	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
21-Apr-2023	23:05:53	4040	AA_ENV_16			Camera	72	539580	6444727	539559	6444756	21	-29	36	-36	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
21-Apr-2023	23:06:24	4041	AA_ENV_16			Camera	72	539579	6444726	539559	6444756	21	-30	37	-34	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
21-Apr-2023	23:06:44	4042	AA_ENV_16			Camera	72	539582	6444724	539559	6444756	23	-32	39	-35	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
21-Apr-2023	23:06:58	4043	AA_ENV_16			Camera	72	539580	6444727	539559	6444756	21	-29	36	-36	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
21-Apr-2023	23:07:11	4044	AA_ENV_16			Camera	72	539580	6444727	539559	6444756	21	-29	36	-36	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
21-Apr-2023	23:07:23	4045	AA_ENV_16			Camera	72	539582	6444729	539559	6444756	23	-27	35	-40	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
21-Apr-2023	23:07:44	4046	AA_ENV_16			Camera	73	539582	6444732	539559	6444756	23	-25	34	-43	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
21-Apr-2023	23:08:43	4047	AA_ENV_16			Camera	73	539580	6444741	539559	6444756	21	-15	26	-54	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
21-Apr-2023	23:08:53	4048	AA_ENV_16			Camera	73	539580	6444743	539559	6444756	21	-13	24	-57	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
21-Apr-2023	23:09:54	4049	AA_ENV_16			Camera	73	539574	6444752	539559	6444756	15	-4	15	-74	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No		Vessel						MV Ocean Endeavour								
Client		Vessel Reference Point (VRP)						COG								
Project Name		Deployment Location						Camera Deployment Node		x	6.7	y	21.94	z	2.93	
Primary Positioning System		Actual Coordinates derived from						Vessel or Beacon								
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN			Range
21-Apr-2023	23:10:20	4050	AA_ENV_16			Camera	73	539572	6444753	539559	6444756	13	-3	13	-78	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
21-Apr-2023	23:10:35	4051	AA_ENV_16			Camera	73	539570	6444755	539559	6444756	11	-1	11	-84	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
21-Apr-2023	23:10:57	4052	AA_ENV_16			Camera	73	539567	6444756	539559	6444756	8	0	8	-87	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
21-Apr-2023	23:11:43	4053	AA_ENV_16			Camera	73	539560	6444760	539559	6444756	1	4	4	-161	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
21-Apr-2023	23:12:20	4054	AA_ENV_16			Camera	73	539553	6444764	539559	6444756	-6	8	10	145	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
21-Apr-2023	23:12:31	4055	AA_ENV_16			Camera	73	539551	6444765	539559	6444756	-8	9	12	139	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
21-Apr-2023	23:13:00	4056	AA_ENV_16			Camera	73	539544	6444769	539559	6444756	-15	13	20	132	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
21-Apr-2023	23:13:10	4057	AA_ENV_16			Camera	74	539542	6444770	539559	6444756	-17	14	22	129	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
21-Apr-2023	23:13:23	4058	AA_ENV_16			Camera	73	539541	6444770	539559	6444756	-18	14	23	128	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
21-Apr-2023	23:13:49	4059	AA_ENV_16			Camera	73	539539	6444769	539559	6444756	-20	13	24	122	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
21-Apr-2023	23:14:00	4060	AA_ENV_16			Camera	73	539539	6444767	539559	6444756	-20	11	22	119	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
21-Apr-2023	23:15:18	4061	AA_ENV_16			Camera	73	539544	6444760	539559	6444756	-15	4	15	106	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
21-Apr-2023	23:15:50	4062	AA_ENV_16			Camera	74	539545	6444764	539559	6444756	-14	8	16	121	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
21-Apr-2023	23:15:58	4063	AA_ENV_16			Camera	74	539545	6444765	539559	6444756	-14	9	16	124	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
21-Apr-2023	23:16:50	4064	AA_ENV_16			Camera	74	539544	6444776	539559	6444756	-15	20	25	143	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)
21-Apr-2023	23:17:06	4065	AA_ENV_16			Camera	74	539543	6444780	539559	6444756	-17	24	29	145	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)
21-Apr-2023	23:17:35	4066	AA_ENV_16			Camera	74	539538	6444788	539559	6444756	-21	32	38	147	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)
21-Apr-2023	23:17:42	4067	AA_ENV_16			Camera	74	539537	6444790	539559	6444756	-22	34	41	147	(Corr'd Nav, Kongsberg 14208, img#45) (B) (T.A)
21-Apr-2023	23:17:55	4068	AA_ENV_16			Camera	74	539534	6444793	539559	6444756	-25	37	44	146	(Corr'd Nav, Kongsberg 14208, img#46) (B) (T.A)
21-Apr-2023	23:18:29	4069	AA_ENV_16			Camera	74	539531	6444796	539559	6444756	-28	40	49	145	(Corr'd Nav, Kongsberg 14208, img#47) (B) (T.A)
22-Apr-2023	07:08:02	4070	AA_ENV_21			Camera	100	541010	6447865	541069	6447876	-59	-11	60	79	(Raw Nav, Kongsberg 14208, img#1) (B)
22-Apr-2023	07:08:33	4071	AA_ENV_21			Camera	101	541000	6447884	541069	6447876	-69	8	69	97	(Raw Nav, Kongsberg 14208, img#2) (B)
22-Apr-2023	07:08:59	4072	AA_ENV_21			Camera	101	540996	6447862	541069	6447876	-73	-14	74	79	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
22-Apr-2023	07:09:13	4073	AA_ENV_21			Camera	101	540998	6447861	541069	6447876	-71	-15	73	78	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
22-Apr-2023	07:10:30	4074	AA_ENV_21			Camera	101	541013	6447865	541069	6447876	-57	-11	57	79	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
22-Apr-2023	07:10:56	4075	AA_ENV_21			Camera	101	541016	6447868	541069	6447876	-53	-8	53	82	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
22-Apr-2023	07:11:07	4076	AA_ENV_21			Camera	101	541019	6447870	541069	6447876	-50	-6	50	83	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
22-Apr-2023	07:11:12	4077	AA_ENV_21			Camera	101	541019	6447870	541069	6447876	-50	-6	50	84	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
22-Apr-2023	07:11:50	4078	AA_ENV_21			Camera	101	541026	6447873	541069	6447876	-43	-3	43	86	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
22-Apr-2023	07:12:18	4079	AA_ENV_21			Camera	101	541027	6447875	541069	6447876	-42	-1	42	89	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
22-Apr-2023	07:12:25	4080	AA_ENV_21			Camera	102	541030	6447871	541069	6447876	-39	-6	40	82	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
22-Apr-2023	07:12:40	4081	AA_ENV_21			Camera	102	541028	6447869	541069	6447876	-41	-7	41	81	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
22-Apr-2023	07:13:01	4082	AA_ENV_21			Camera	102	541028	6447874	541069	6447876	-41	-2	41	88	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)
22-Apr-2023	07:13:15	4083	AA_ENV_21			Camera	102	541029	6447875	541069	6447876	-40	-1	40	89	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
22-Apr-2023	07:13:42	4084	AA_ENV_21			Camera	102	541035	6447876	541069	6447876	-34	0	34	91	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
22-Apr-2023	07:14:05	4085	AA_ENV_21			Camera	102	541039	6447876	541069	6447876	-30	0	30	91	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
22-Apr-2023	07:14:28	4086	AA_ENV_21			Camera	102	541043	6447877	541069	6447876	-26	1	26	91	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																
Job No	54463						Vessel	MV Ocean Endeavour								
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG								
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7				
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94				
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks	
22-Apr-2023	07:14:42	4087	AA_ENV_21			Camera	102	541045	6447876	541069	6447876	-24	0	24	90	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
22-Apr-2023	07:15:02	4088	AA_ENV_21			Camera	102	541049	6447877	541069	6447876	-20	1	20	93	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
22-Apr-2023	07:15:29	4089	AA_ENV_21			Camera	102	541051	6447876	541069	6447876	-18	0	18	91	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
22-Apr-2023	07:15:36	4090	AA_ENV_21			Camera	102	541053	6447875	541069	6447876	-16	-1	16	88	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
22-Apr-2023	07:16:03	4091	AA_ENV_21			Camera	102	541058	6447876	541069	6447876	-11	0	11	89	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
22-Apr-2023	07:16:14	4092	AA_ENV_21			Camera	102	541060	6447877	541069	6447876	-9	1	9	97	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
22-Apr-2023	07:16:29	4093	AA_ENV_21			Camera	102	541063	6447878	541069	6447876	-6	2	6	109	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
22-Apr-2023	07:16:49	4094	AA_ENV_21			Camera	102	541067	6447879	541069	6447876	-2	3	4	144	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
22-Apr-2023	07:17:03	4095	AA_ENV_21			Camera	102	541071	6447879	541069	6447876	2	3	3	-149	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
22-Apr-2023	07:17:34	4096	AA_ENV_21			Camera	102	541075	6447876	541069	6447876	6	0	6	-94	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
22-Apr-2023	07:18:00	4097	AA_ENV_21			Camera	102	541079	6447875	541069	6447876	11	-1	11	-84	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
22-Apr-2023	07:18:20	4098	AA_ENV_21			Camera	102	541085	6447875	541069	6447876	16	-1	16	-86	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
22-Apr-2023	07:18:40	4099	AA_ENV_21			Camera	102	541088	6447878	541069	6447876	19	2	19	-97	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
22-Apr-2023	07:18:52	4100	AA_ENV_21			Camera	102	541091	6447880	541069	6447876	22	4	22	-100	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)
22-Apr-2023	07:19:10	4101	AA_ENV_21			Camera	102	541094	6447881	541069	6447876	25	5	25	-101	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
22-Apr-2023	07:19:19	4102	AA_ENV_21			Camera	102	541095	6447882	541069	6447876	26	6	26	-103	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
22-Apr-2023	07:19:33	4103	AA_ENV_21			Camera	102	541096	6447883	541069	6447876	27	8	28	-106	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
22-Apr-2023	07:19:52	4104	AA_ENV_21			Camera	102	541099	6447888	541069	6447876	30	12	32	-112	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
22-Apr-2023	07:20:16	4105	AA_ENV_21			Camera	102	541104	6447890	541069	6447876	35	14	38	-111	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
22-Apr-2023	07:20:45	4106	AA_ENV_21			Camera	102	541106	6447893	541069	6447876	37	17	41	-114	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
22-Apr-2023	07:21:01	4107	AA_ENV_21			Camera	102	541110	6447892	541069	6447876	41	16	44	-111	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
22-Apr-2023	07:21:31	4108	AA_ENV_21			Camera	101	541110	6447897	541069	6447876	41	21	46	-117	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
22-Apr-2023	07:21:50	4109	AA_ENV_21			Camera	101	541112	6447900	541069	6447876	43	24	49	-119	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
22-Apr-2023	07:22:08	4110	AA_ENV_21			Camera	101	541115	6447901	541069	6447876	46	25	52	-119	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)
22-Apr-2023	09:16:20	4111	AA_ENV_40			Camera	57	537714	6449505	537753	6449539	-39	-34	51	49	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)
22-Apr-2023	09:16:58	4112	AA_ENV_40			Camera	57	537714	6449504	537753	6449539	-39	-35	53	48	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)
22-Apr-2023	09:17:13	4113	AA_ENV_40			Camera	57	537719	6449497	537753	6449539	-34	-42	53	39	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)
22-Apr-2023	09:17:19	4114	AA_ENV_40			Camera	57	537715	6449502	537753	6449539	-38	-37	53	45	(Corr'd Nav, Kongsberg 14208, img#4) (B) (T.A)
22-Apr-2023	09:18:00	4115	AA_ENV_40			Camera	57	537714	6449503	537753	6449539	-39	-36	54	47	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)
22-Apr-2023	09:18:36	4116	AA_ENV_40			Camera	57	537711	6449505	537753	6449539	-42	-34	54	51	(Corr'd Nav, Kongsberg 14208, img#6) (B) (T.A)
22-Apr-2023	09:18:59	4117	AA_ENV_40			Camera	57	537714	6449507	537753	6449539	-39	-32	50	51	(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A)
22-Apr-2023	09:19:10	4118	AA_ENV_40			Camera	57	537714	6449509	537753	6449539	-39	-30	49	52	(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
22-Apr-2023	09:19:18	4119	AA_ENV_40			Camera	57	537715	6449510	537753	6449539	-38	-29	48	52	(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
22-Apr-2023	09:19:46	4120	AA_ENV_40			Camera	57	537717	6449513	537753	6449539	-36	-26	44	54	(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
22-Apr-2023	09:20:05	4121	AA_ENV_40			Camera	57	537719	6449515	537753	6449539	-34	-25	42	54	(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
22-Apr-2023	09:20:21	4122	AA_ENV_40			Camera	57	537721	6449517	537753	6449539	-32	-22	39	55	(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
22-Apr-2023	09:20:35	4123	AA_ENV_40			Camera	57	537722	6449518	537753	6449539	-31	-21	38	56	(Corr'd Nav, Kongsberg 14208, img#13) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	COG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7					
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon			y	21.94					
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
22-Apr-2023	09:21:03	4124	AA_ENV_40			Camera	57	537725	6449520	537753	6449539	-28	-19	34	55	(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)	
22-Apr-2023	09:21:19	4125	AA_ENV_40			Camera	57	537728	6449520	537753	6449539	-25	-19	32	53	(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)	
22-Apr-2023	09:21:33	4126	AA_ENV_40			Camera	57	537729	6449519	537753	6449539	-24	-20	31	50	(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)	
22-Apr-2023	09:21:46	4127	AA_ENV_40			Camera	57	537731	6449520	537753	6449539	-22	-19	29	50	(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)	
22-Apr-2023	09:22:16	4128	AA_ENV_40			Camera	57	537736	6449519	537753	6449539	-17	-20	26	41	(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)	
22-Apr-2023	09:22:25	4129	AA_ENV_40			Camera	57	537738	6449519	537753	6449539	-16	-20	25	38	(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)	
22-Apr-2023	09:22:39	4130	AA_ENV_40			Camera	57	537740	6449519	537753	6449539	-13	-20	24	32	(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)	
22-Apr-2023	09:22:46	4131	AA_ENV_40			Camera	57	537741	6449519	537753	6449539	-12	-20	23	31	(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)	
22-Apr-2023	09:23:01	4132	AA_ENV_40			Camera	57	537744	6449519	537753	6449539	-9	-20	22	25	(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)	
22-Apr-2023	09:23:09	4133	AA_ENV_40			Camera	57	537745	6449519	537753	6449539	-8	-20	22	22	(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)	
22-Apr-2023	09:23:16	4134	AA_ENV_40			Camera	57	537746	6449520	537753	6449539	-7	-19	21	19	(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)	
22-Apr-2023	09:23:39	4135	AA_ENV_40			Camera	57	537749	6449522	537753	6449539	-4	-17	17	14	(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)	
22-Apr-2023	09:24:05	4136	AA_ENV_40			Camera	57	537751	6449524	537753	6449539	-2	-15	15	7	(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)	
22-Apr-2023	09:24:51	4137	AA_ENV_40			Camera	57	537752	6449533	537753	6449539	-1	-6	6	11	(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)	
22-Apr-2023	09:24:57	4138	AA_ENV_40			Camera	57	537752	6449535	537753	6449539	-1	-4	4	13	(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)	
22-Apr-2023	09:25:13	4139	AA_ENV_40			Camera	57	537752	6449539	537753	6449539	-1	0	1	96	(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)	
22-Apr-2023	09:25:23	4140	AA_ENV_40			Camera	57	537752	6449541	537753	6449539	-1	2	2	150	(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)	
22-Apr-2023	09:25:43	4141	AA_ENV_40			Camera	57	537752	6449545	537753	6449539	-1	6	6	171	(Corr'd Nav, Kongsberg 14208, img#31) (B) (T.A)	
22-Apr-2023	09:25:50	4142	AA_ENV_40			Camera	57	537753	6449546	537753	6449539	0	7	7	177	(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)	
22-Apr-2023	09:26:30	4143	AA_ENV_40			Camera	57	537755	6449552	537753	6449539	2	13	13	-169	(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)	
22-Apr-2023	09:26:38	4144	AA_ENV_40			Camera	57	537756	6449553	537753	6449539	3	14	14	-169	(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)	
22-Apr-2023	09:27:13	4145	AA_ENV_40			Camera	57	537757	6449559	537753	6449539	4	20	21	-168	(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)	
22-Apr-2023	09:27:36	4146	AA_ENV_40			Camera	57	537758	6449563	537753	6449539	5	24	24	-169	(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)	
22-Apr-2023	09:27:53	4147	AA_ENV_40			Camera	57	537758	6449566	537753	6449539	5	27	27	-169	(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)	
22-Apr-2023	09:28:06	4148	AA_ENV_40			Camera	57	537760	6449567	537753	6449539	7	28	29	-166	(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)	
22-Apr-2023	09:28:22	4149	AA_ENV_40			Camera	57	537761	6449569	537753	6449539	8	30	31	-165	(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)	
22-Apr-2023	09:28:26	4150	AA_ENV_40			Camera	57	537761	6449569	537753	6449539	8	30	31	-165	(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)	
22-Apr-2023	09:29:03	4151	AA_ENV_40			Camera	57	537765	6449574	537753	6449539	12	35	37	-161	(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)	
22-Apr-2023	09:29:27	4152	AA_ENV_40			Camera	57	537768	6449578	537753	6449539	15	39	42	-159	(Corr'd Nav, Kongsberg 14208, img#42) (B) (T.A)	
22-Apr-2023	09:29:56	4153	AA_ENV_40			Camera	57	537772	6449582	537753	6449539	19	43	47	-157	(Corr'd Nav, Kongsberg 14208, img#43) (B) (T.A)	
22-Apr-2023	09:30:02	4154	AA_ENV_40			Camera	57	537772	6449583	537753	6449539	19	44	48	-156	(Corr'd Nav, Kongsberg 14208, img#44) (B) (T.A)	
22-Apr-2023	11:08:12	4155	AA_ENV_24			Camera	62	536647	6453610	536668	6453672	-21	-63	66	18	(Corr'd Nav, Kongsberg 14208, img#1) (B) (T.A)	
22-Apr-2023	11:11:16	4156	AA_ENV_24			Camera	62	536660	6453623	536668	6453672	-8	-49	50	10	(Corr'd Nav, Kongsberg 14208, img#2) (B) (T.A)	
22-Apr-2023	11:11:43	4157	AA_ENV_24			Camera	62	536661	6453627	536668	6453672	-7	-45	46	8	(Corr'd Nav, Kongsberg 14208, img#3) (B) (T.A)	
22-Apr-2023	11:12:00	4158	AA_ENV_24			Camera	64	536662	6453629	536668	6453672	-6	-43	43	8	(Raw Nav, Kongsberg 14208, img#4) (B)	
22-Apr-2023	11:12:17	4159	AA_ENV_24			Camera	62	536664	6453631	536668	6453672	-4	-41	41	6	(Corr'd Nav, Kongsberg 14208, img#5) (B) (T.A)	
22-Apr-2023	11:12:28	4160	AA_ENV_24			Camera	64	536663	6453633	536668	6453672	-5	-39	39	7	(Raw Nav, Kongsberg 14208, img#6) (B)	

APPENDIX B FIELD SAMPLING LOGS

Seabed Imagery Positioning Summary																	
Job No	54463					Vessel	MV Ocean Endeavour										
Client	Caledonia Offshore Windfarm Limited					Vessel Reference Point (VRP)	COG										
Project Name	Caledonia OWF Phase 2					Deployment Location	Camera Deployment Node			x	6.7	y					
Primary Positioning System	Starpack 1					Actual Coordinates derived from	Vessel or Beacon										
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT				
Date	Time (UTC/GMT)	Fix number	Stn No	Penetration %	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target		Surveyor	Remarks		
22-Apr-2023	11:12:49	4160	AA_ENV_24			Camera	63	Easting	Northing	Easting	Northing	dE	dN	Range	Bearing		(Corr'd Nav, Kongsberg 14208, img#7) (B) (T.A) #Double Fix
22-Apr-2023	11:13:06	4161	AA_ENV_24			Camera	62	536663	6453636	536668	6453672	-5	-36	36	8		(Corr'd Nav, Kongsberg 14208, img#8) (B) (T.A)
22-Apr-2023	11:13:31	4162	AA_ENV_24			Camera	62	536664	6453642	536668	6453672	-4	-30	30	8		(Corr'd Nav, Kongsberg 14208, img#9) (B) (T.A)
22-Apr-2023	11:14:10	4163	AA_ENV_24			Camera	62	536665	6453645	536668	6453672	-3	-27	27	7		(Corr'd Nav, Kongsberg 14208, img#10) (B) (T.A)
22-Apr-2023	11:14:23	4164	AA_ENV_24			Camera	62	536665	6453647	536668	6453672	-3	-25	25	8		(Corr'd Nav, Kongsberg 14208, img#11) (B) (T.A)
22-Apr-2023	11:14:56	4165	AA_ENV_24			Camera	62	536665	6453650	536668	6453672	-3	-22	22	7		(Corr'd Nav, Kongsberg 14208, img#12) (B) (T.A)
22-Apr-2023	11:15:17	4166	AA_ENV_24			Camera	65	536666	6453653	536668	6453672	-2	-19	19	6		(Raw Nav, Kongsberg 14208, img#13) (B)
22-Apr-2023	11:15:54	4167	AA_ENV_24			Camera	63	536667	6453656	536668	6453672	-1	-16	16	2		(Corr'd Nav, Kongsberg 14208, img#14) (B) (T.A)
22-Apr-2023	11:16:25	4168	AA_ENV_24			Camera	63	536668	6453659	536668	6453672	0	-13	13	-1		(Corr'd Nav, Kongsberg 14208, img#15) (B) (T.A)
22-Apr-2023	11:16:38	4169	AA_ENV_24			Camera	63	536669	6453661	536668	6453672	1	-11	11	-3		(Corr'd Nav, Kongsberg 14208, img#16) (B) (T.A)
22-Apr-2023	11:16:56	4170	AA_ENV_24			Camera	63	536669	6453664	536668	6453672	1	-8	8	-4		(Corr'd Nav, Kongsberg 14208, img#17) (B) (T.A)
22-Apr-2023	11:17:12	4171	AA_ENV_24			Camera	63	536669	6453665	536668	6453672	1	-7	7	-8		(Corr'd Nav, Kongsberg 14208, img#18) (B) (T.A)
22-Apr-2023	11:17:31	4172	AA_ENV_24			Camera	63	536668	6453668	536668	6453672	0	-4	4	-4		(Corr'd Nav, Kongsberg 14208, img#19) (B) (T.A)
22-Apr-2023	11:17:41	4173	AA_ENV_24			Camera	63	536667	6453669	536668	6453672	-1	-3	3	17		(Corr'd Nav, Kongsberg 14208, img#20) (B) (T.A)
22-Apr-2023	11:17:48	4174	AA_ENV_24			Camera	63	536668	6453671	536668	6453672	0	-1	1	3		(Corr'd Nav, Kongsberg 14208, img#21) (B) (T.A)
22-Apr-2023	11:18:03	4175	AA_ENV_24			Camera	63	536668	6453672	536668	6453672	0	0	1	145		(Corr'd Nav, Kongsberg 14208, img#22) (B) (T.A)
22-Apr-2023	11:18:26	4176	AA_ENV_24			Camera	63	536668	6453676	536668	6453672	0	4	4	178		(Corr'd Nav, Kongsberg 14208, img#23) (B) (T.A)
22-Apr-2023	11:18:33	4177	AA_ENV_24			Camera	63	536668	6453677	536668	6453672	0	5	5	-179		(Corr'd Nav, Kongsberg 14208, img#24) (B) (T.A)
22-Apr-2023	11:18:51	4178	AA_ENV_24			Camera	63	536669	6453678	536668	6453672	1	6	6	-173		(Corr'd Nav, Kongsberg 14208, img#25) (B) (T.A)
22-Apr-2023	11:19:17	4179	AA_ENV_24			Camera	63	536669	6453683	536668	6453672	1	11	11	-173		(Corr'd Nav, Kongsberg 14208, img#26) (B) (T.A)
22-Apr-2023	11:19:37	4180	AA_ENV_24			Camera	63	536671	6453685	536668	6453672	3	13	13	-168		(Corr'd Nav, Kongsberg 14208, img#27) (B) (T.A)
22-Apr-2023	11:19:56	4181	AA_ENV_24			Camera	63	536671	6453688	536668	6453672	3	17	17	-170		(Corr'd Nav, Kongsberg 14208, img#28) (B) (T.A)
22-Apr-2023	11:20:17	4182	AA_ENV_24			Camera	63	536672	6453691	536668	6453672	4	20	20	-167		(Corr'd Nav, Kongsberg 14208, img#29) (B) (T.A)
22-Apr-2023	11:20:30	4183	AA_ENV_24			Camera	63	536673	6453693	536668	6453672	5	21	22	-166		(Corr'd Nav, Kongsberg 14208, img#30) (B) (T.A)
22-Apr-2023	11:20:55	4184	AA_ENV_24			Camera	65	536675	6453698	536668	6453672	7	26	27	-165		(Raw Nav, Kongsberg 14208, img#31) (B)
22-Apr-2023	11:21:02	4185	AA_ENV_24			Camera	63	536676	6453698	536668	6453672	8	26	27	-164		(Corr'd Nav, Kongsberg 14208, img#32) (B) (T.A)
22-Apr-2023	11:21:13	4186	AA_ENV_24			Camera	63	536676	6453700	536668	6453672	8	28	29	-164		(Corr'd Nav, Kongsberg 14208, img#33) (B) (T.A)
22-Apr-2023	11:21:33	4187	AA_ENV_24			Camera	63	536675	6453702	536668	6453672	7	30	31	-166		(Corr'd Nav, Kongsberg 14208, img#34) (B) (T.A)
22-Apr-2023	11:21:46	4188	AA_ENV_24			Camera	63	536676	6453703	536668	6453672	8	31	32	-166		(Corr'd Nav, Kongsberg 14208, img#35) (B) (T.A)
22-Apr-2023	11:22:09	4189	AA_ENV_24			Camera	63	536672	6453705	536668	6453672	4	33	33	-173		(Corr'd Nav, Kongsberg 14208, img#36) (B) (T.A)
22-Apr-2023	11:22:19	4190	AA_ENV_24			Camera	63	536671	6453706	536668	6453672	3	34	34	-175		(Corr'd Nav, Kongsberg 14208, img#37) (B) (T.A)
22-Apr-2023	11:22:44	4191	AA_ENV_24			Camera	63	536667	6453705	536668	6453672	-1	33	33	179		(Corr'd Nav, Kongsberg 14208, img#38) (B) (T.A)
22-Apr-2023	11:24:41	4192	AA_ENV_24			Camera	63	536662	6453700	536668	6453672	-6	28	29	168		(Corr'd Nav, Kongsberg 14208, img#39) (B) (T.A)
22-Apr-2023	11:32:22	4193	AA_ENV_24			Camera	63	536680	6453713	536668	6453672	12	41	42	-164		(Corr'd Nav, Kongsberg 14208, img#40) (B) (T.A)
22-Apr-2023	11:32:45	4194	AA_ENV_24			Camera	63	536682	6453716	536668	6453672	14	44	46	-162		(Corr'd Nav, Kongsberg 14208, img#41) (B) (T.A)

APPENDIX B FIELD SAMPLING LOGS

SEABED IMAGERY LOG SHEET (Deck)											FOR-ENV-0538					
Job No:	54463		Area:	North Sea				Scale:	Green Line Lasers (99mm)							
Project:	Caledonia OWF Phase 2								Equipment:	1Cam / OE Kongsberg 14-208 / CT3022						
Client:	Caledonia Offshore Windfarm Limited						Vessel: MV Ocean Endeavour									
Station Number	Date	Time on Overlay Start	Time on Overlay Finish	Duration	HD Video HDD File Name(s)	Topside SD Video File Name (s)	Sediment Description	Fauna Description	Operator(s)	No. of Photos	First Fix No.	Last Fix No.	Comments			
AA_ENV_19	14-Apr-2023	17:24:36	17:36:25	0:11:49	54463_AA_ENV_19_00010.MTS	54463_AA_ENV_19_2023-04-14_172436_Ch1/2_00	Fine sand with faunal burrows and occasional shell	Anthropoda (Paguroidea), Chordata (Actinopterygii), Pleuronectiformes), Cnidaria (Pennatula phosphorea), Mollusca (Gastropoda)	RH, MC	44	2413	2455	Issue with EELs, photo taken but no fix 2414 to 2416			
AA_ENV_22	14-Apr-2023	20:53:43	21:06:25	0:12:42	54463_AA_ENV_22_00011.MTS	54463_AA_ENV_22_2023-04-14_205343_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments.	Anthropoda, Chordata (Actinopterygii), Cnidaria (P. phosphorea), Echinodermata (Asteroidea), Mollusca (Gastropoda)	RH, MC	42	2456	2497				
AA_ENV_34	15-Apr-2023	01:49:13	02:04:07	0:14:54	54463_AA_ENV_34_00012.MTS	54463_AA_ENV_34_2023-04-15_014913_Ch1/2_00	Fine sand with faunal burrows	Chordata (Actinopterygii), Pleuronectiformes), Cnidaria (P. phosphorea), Echinodermata (Asteroidea)	MJ, JH	41	2498	2538				
AA_ENV_09	15-Apr-2023	04:26:31	04:40:45	0:14:14	54463_AA_ENV_09_00013.MTS	54463_AA_ENV_09_2023-04-15_042631_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Bryozoa, Chordata (Pleuronectiformes, Triglidae), Cnidaria (Hydrozoa, P. phosphorea)	MJ, JH	40	2539	2579				
AA_ENV_17	15-Apr-2023	06:10:30	06:24:35	0:04:05	54463_AA_ENV_17_00014.MTS	54463_AA_ENV_17_2023-04-15_061030_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments	Cnidaria (Hydrozoa), Echinodermata (Echinoidea), Mollusca (Pectinidae)	MJ, JH	39	2580	2617				
AA_ENV_41	15-Apr-2023	08:09:30	08:26:12	0:06:42	54463_AA_ENV_41_00015.MTS	54463_AA_ENV_41_2023-04-15_080930_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments	Anthropoda (Brachyura), Chordata (Actinopterygii)	MJ, JH	45	2618	2662				
AA_ENV_07	15-Apr-2023	10:32:01	10:59:21	0:02:27	54463_AA_ENV_07_00000.MTS	54463_AA_ENV_07_2023-04-15_103201_Ch1/2_00	Coarse sand with shell fragments	Chordata (Actinopterygii), Echinodermata (Asteroidea), Mollusca (Arctica islandica)	MJ, JH	41	2663	2703	Confirmed presence of A. islandica			
AA_ENV_23	15-Apr-2023	14:02:37	14:14:25	0:01:48	54463_AA_ENV_23_00001.MTS	54463_AA_ENV_23_2023-04-15_140237_Ch1/2_00	Gravel, coarse sand with shell fragments	Annelida (Polychaeta), Anthropoda (Paguroidea), Echinodermata (Asteroidea) Mollusca (Bivalvia, Gastropoda, A. islandica)	RH, MC	38	2704	2741	Confirmed presence of A. islandica			
AA_ENV_20	15-Apr-2023	16:00:54	16:16:00	0:01:06	54463_AA_ENV_20_00002.MTS	54463_AA_ENV_20_2023-04-15_160054_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments	Anthropoda (Paguroidea), Cnidaria (Alcyonium digitatum, Hydrozoa), Echinodermata (Ophiuroidea) Mollusca (Pectinidae, Gastropoda)	RH, MC	40	2742	2781				
AA_ENV_38	18-Apr-2023	19:11:34	19:26:31	0:01:57	54463_AA_ENV_38_00003.MTS	54463_AA_ENV_38_2023-04-18_191134_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Paguroidea), Chordata (Actinopterygii), Pleuronectiformes, Triglidae), Cnidaria (Hydrozoa), Mollusca (Gastropoda)	RH, MC	41	2782	2822				
AA_ENV_01	18-Apr-2023	19:56:37	20:12:46	0:01:09	54463_AA_ENV_01_00004.MTS	54463_AA_ENV_01_2023-04-18_195637_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Paguroidea), Chordata (Actinopterygii), Pleuronectiformes), Echinodermata (Ophiuroidea), Mollusca (Gastropoda, A. islandica)	RH, MC	42	2823	2864	Confirmed presence of A. islandica			
AA_ENV_39	18-Apr-2023	21:36:59	21:48:32	0:01:33	54463_AA_ENV_39_00005.MTS	54463_AA_ENV_39_2023-04-18_213659_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Paguroidea), Bryozoa (Flustridae) Cnidaria (Hydrozoa), Echinodermata (Asteroidea), Mollusca (Pectinidae, A. islandica)	RH, MC	39	2865	2903	Confirmed presence of A. islandica			
AA_ENV_08	18-Apr-2023	22:32:30	22:48:46	0:01:16	54463_AA_ENV_08_00006.MTS	54463_AA_ENV_08_2023-04-18_223230_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments	Bryozoa (Flustridae), Anthropoda (Paguroidea), Chordata (Actinopterygii), Echinodermata (Asteroidea), Mollusca (Bivalvia, A. islandica)	RH, MC	40	2904	2943	Confirmed presence of A. islandica			
AA_ENV_11	19-Apr-2023	00:16:10	00:33:55	0:01:45	54463_AA_ENV_11_00007.MTS	54463_AA_ENV_11_2023-04-19_001610_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments	Anthropoda (Paguroidea), Bryozoa (Flustridae), Chordata (Pleuronectiformes), Echinodermata (Echinoidea, Ophiuroidea), Mollusca (Bivalvia, A. islandica)	MJ, JH	41	2944	2984	Confirmed presence of A. islandica			

APPENDIX B FIELD SAMPLING LOGS

SEABED IMAGERY LOG SHEET (Deck)										FOR-ENV-0538				
Job No: 54463			Area: North Sea				Scale: Green Line Lasers (99mm)							
Project: Caledonia OWF Phase 2							Equipment: 1Cam / OE Kongsberg 14-208 / CT3022							
Client: Caledonia Offshore Windfarm Limited							Vessel: MV Ocean Endeavour							
Station Number	Date	Time on Overlay Start	Time on Overlay Finish	Duration	HD Video HDD File Name(s)	Topside SD Video File Name (s)	Sediment Description	Fauna Description	Operator(s)	No. of Photos	First Fix No.	Last Fix No.	Comments	
AA_ENV_18	19-Apr-2023	03:40:55	03:54:40	00:13:45	54463_AA_ENV_18_00008.MTS	54463_AA_ENV_18_2023-04-19_034055_Ch1/2_00	Coarse sand with shell fragments	Bryozoa (Flustridae), Chordata (Actinopterygii, Pleuronectiformes), Echinodermata (Ophiuroidea)	MJ, JH	42	2985	3026		
AA_ENV_13	19-Apr-2023	06:12:45	06:26:43	00:13:58	54463_AA_ENV_13_00009.MTS	54463_AA_ENV_13_2023-04-19_061245_Ch1/2_00	Boulder, cobbles, gravel, coarse sand with shell fragments	Bryozoa (Flustridae), Chordata (Actinopterygii), Cnidaria (<i>A. digitatum</i>), Echinodermata (Asteroidea)	MJ, JH	44	3027	3070		
AA_ENV_37	19-Apr-2023	07:35:10	07:48:48	00:13:38	54463_AA_ENV_37_00010.MTS	54463_AA_ENV_37_2023-04-19_073510_Ch1/2_00	Gravel, coarse sand with shell fragments	Bryozoa (Flustridae), Chordata (Pleuronectiformes), Cnidaria (<i>A. digitatum</i>)	MJ, JH	47	3071	3117		
AA_ENV_31	19-Apr-2023	08:28:20	08:42:27	00:14:07	54463_AA_ENV_31_00011.MTS	54463_AA_ENV_31_2023-04-19_082820_Ch1/2_00	Coarse sand with shell fragments	Chordata (Pleuronectiformes, Triglidae), Cnidaria (<i>P. phosphorea</i>)	MJ, JH	44	3118	3160		
AA_ENV_03	19-Apr-2023	10:00:21	10:14:55	00:14:34	54463_AA_ENV_03_00012.MTS	54463_AA_ENV_03_2023-04-19_100025_Ch1/2_00	Coarse sand with shell fragments	Bryozoa (Flustridae), Chordata (Actinopterygii), Echinodermata, Mollusca (Gastropoda)	RH, MC	41	3161	3201		
AA_ENV_04	19-Apr-2023	11:24:02	11:40:15	00:16:13	54463_AA_ENV_04_00013.MTS	54463_AA_ENV_04_2023-04-19_112402_Ch1/2_00	Cobbles, gravel, coarse sand with shell fragments	Anthropoda (Paguroidea), Chordata (Pleuronectiformes), Cnidaria (<i>A. digitatum</i> , Hydrozoa), Echinodermata (<i>Asterias rubens</i>), Mollusca (Gastropoda)	RH, MC	40	3202	3242		
AA_ENV_35	19-Apr-2023	14:15:40	14:32:36	00:16:56	54463_AA_ENV_35_00014.MTS	54463_AA_ENV_35_2023-04-19_141540_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Paguroidea), Chordata (<i>Chelidonichthys obscurus</i>), Cnidaria (Hydrozoa)	RH, MC	40	3243	3282		
AA_ENV_33	19-Apr-2023	13:44:34	13:57:37	00:13:03	54463_AA_ENV_33_00015.MTS	54463_AA_ENV_33_2023-04-20_134432_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Paguroidea), Bryozoa, Cnidaria (Hydrozoa), Echinodermata (Echinoidea), Mollusca (Bivalvia)	RH, MC	40	3283	3322		
AA_ENV_14	19-Apr-2023	15:36:24	15:55:55	00:19:31	54463_AA_ENV_14_00016.MTS	54463_AA_ENV_14_2023-04-20_153624_Ch1/2_00	Coarse sand with shell fragments	Annelida (Polychaeta), Bryozoa, Chordata (Pleuronectiformes), Cnidaria (Hydrozoa)	RH, MC	41	3323	3363		
AA_ENV_36	20-Apr-2023	16:57:30	17:09:17	00:11:47	54463_AA_ENV_36_00017.MTS	54463_AA_ENV_36_2023-04-20_165730_Ch1/2_00	Coarse sand with shell fragments	Chordata (Pleuronectiformes), Cnidaria (Hydrozoa), Mollusca (Bivalvia, Gastropoda)	RH, MC	40	3364	3403		
AA_ENV_02	20-Apr-2023	17:48:38	17:59:34	00:10:56	54463_AA_ENV_02_00018.MTS	54463_AA_ENV_02_2023-04-20_174838_Ch1/2_00	Coarse sand with shell fragments	Chordata (Pleuronectiformes), Cnidaria (Hydrozoa), Mollusca (Gastropoda)	RH, MC	38	3404	3441		
AA_ENV_32	20-Apr-2023	20:34:32	20:49:05	00:14:33	54463_AA_ENV_32_00000.MTS	54463_AA_ENV_32_2023-04-20_203432_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Caridea, Paguroidea), Bryozoa (Flustridae), Chordata (Pleuronectiformes), Echinodermata (Asteroidea, Ophiuroidea), Mollusca (Bivalvia, <i>A. islandica</i>)	RH, MC	44	3442	3482	Issue with EELs, photo taken but no fix 3453 to 3461 and 3483 to 3485 Confirmed presence of <i>A. islandica</i>	
AA_ENV_29	20-Apr-2023	22:24:45	22:42:25	00:17:40	54463_AA_ENV_29_00001.MTS	54463_AA_ENV_29_2023-04-20_222445_Ch1/2_00 54463_AA_ENV_29_2023-04-20_222806_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Brachyura), Chordata (Actinopterygii, Triglidae), Cnidaria (<i>P. phosphorea</i>), Echinodermata (Ophiuroidea), Mollusca (<i>A. islandica</i>)	MJ, JH	54	3486	3529	Overlay for first few frames of AA_ENV_29 read AA_ENV_32. Video overlay header corrected Confirmed presence of <i>A. islandica</i>	
AA_ENV_27	21-Apr-2023	00:12:01	00:26:38	00:14:37	54463_AA_ENV_27_00002.MTS	54463_AA_ENV_27_2023-04-21_001201_Ch1/2_00	Coarse sand with shell fragments	Bryozoa, Chordata (Actinopterygii), Cnidaria (Hydrozoa, <i>P. phosphorea</i>), Echinodermata (Ophiuroidea), Mollusca (Bivalvia, <i>A. islandica</i>)	MJ, JH	48	3540	3587	Confirmed presence of <i>A. islandica</i>	

APPENDIX B FIELD SAMPLING LOGS

SEABED IMAGERY LOG SHEET (Deck)											FOR-ENV-0538				
Job No: 54463			Area: North Sea				Scale: Green Line Lasers (99mm)								
Project: Caledonia OWF Phase 2							Equipment: 1Cam / OE Kongsberg 14-208 / CT3022								
Client: Caledonia Offshore Windfarm Limited							Vessel: MV Ocean Endeavour								
Station Number	Date	Time on Overlay Start	Time on Overlay Finish	Duration	HD Video HDD File Name(s)	Topside SD Video File Name (s)	Sediment Description	Fauna Description	Operator(s)	No. of Photos	First Fix No.	Last Fix No.		Comments	
AA_ENV_06	21-Apr-2023	01:55:30	02:10:30	00:15:00	54463_AA_ENV_06_00003.MTS	54463_AA_ENV_06_2023-04-21_015530_Ch1/2_00	Coarse sand with shell fragments	Arthropoda (Paguroidea), Chordata (Actinopterygii, Pleuronectiformes, Triglidae), Cnidaria (<i>P. phosphorea</i>), Echinodermata (Asteroidea, Ophiuroidea), Mollusca (Bivalvia, <i>A. islandica</i>)	MJ, JH	43	3588	3630	Confirmed presence of <i>A. islandica</i>		
AA_ENV_28	21-Apr-2023	04:35:00	04:51:46	00:16:46	54463_AA_ENV_28_00004.MTS 00005.MTS	54463_AA_ENV_28_2023-04-21_040555_Ch1/2_00 54463_AA_ENV_28_2023-04-21_043500_Ch1/2_00	Coarse sand with shell fragments	Arthropoda (Brachyura, Paguroidea), Bryozoa (Flustridae), Chordata (Pleuronectiformes), Cnidaria (Alcyonium digitatum, Anthozoa, Hydrozoa), Echinodermata (Ophiuroidea), Mollusca (Bivalvia, <i>A. islandica</i>)	MJ, JH	57	3635	3687	Issue with EELs, photo taken but no fix 3631 to 3634 Confirmed presence of <i>A. islandica</i>		
AA_ENV_15	21-Apr-2023	08:02:07	08:22:47	00:20:40	54463_AA_ENV_15_00006.MTS	54463_AA_ENV_15_2023-04-21_080207_Ch1/2_00	Coarse sand with shell fragments	Arthropoda (Brachyura, Bryozoa (Flustridae), Chordata (Actinopterygii), Cnidaria (<i>A. digitatum</i> , Hydrozoa, <i>P. phosphorea</i>), Echinodermata (Ophiuroidea), Mollusca (Bivalvia, <i>A. islandica</i>)	MJ, JH	58	3688	3745	Issue with EELs, photo taken but no fix 3717 to 3720 Confirmed presence of <i>A. islandica</i>		
AA_ENV_10	21-Apr-2023	10:12:39	10:26:39	00:14:00	54463_AA_ENV_10_00007.MTS	54463_AA_ENV_10_2023-04-21_101239_Ch1/2_00	Boulders, cobbles and coarse sand with shell fragments	Annelida (Polychaeta), Arthropoda (Paguroidea), Cnidaria (Hydrozoa), Echinodermata (Astropoda, Ophiuroidea), Mollusca (Gastropoda)	RH, MC	42	3746	3788			
AA_ENV_26	21-Apr-2023	11:30:08	11:42:08	00:12:00	54463_AA_ENV_26_00008.MTS	54463_AA_ENV_26_2023-04-21_113008_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Arthropoda (Brachyura), Chordata (Actinopterygii, Pleuronectiformes), Cnidaria (Hydrozoa, <i>P. phosphorea</i>), Mollusca (Bivalvia, Gastropoda, <i>A. islandica</i>)	RH, MC	41	3789	3828	Confirmed presence of <i>A. islandica</i>		
AA_ENV_12	21-Apr-2023	14:45:06	14:57:52	00:12:46	54463_AA_ENV_12_00009.MTS	54463_AA_ENV_12_2023-04-21_144459_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Chordata (Actinopterygii, Pleuronectiformes), Cnidaria (<i>P. phosphorea</i>), Echinodermata (Asteroidea)	RH, MC	40	3829	3868			
AA_ENV_30	21-Apr-2023	16:34:50	16:49:27	00:14:37	54463_AA_ENV_30_00010.MTS	54463_AA_ENV_30_2023-04-21_163450_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Chordata (Actinopterygii), Cnidaria (<i>P. phosphorea</i>)	RH, MC	40	3869	3908			
AA_ENV_42	21-Apr-2023	17:55:59	18:09:10	00:13:11	54463_AA_ENV_42_00011.MTS	54463_AA_ENV_42_2023-04-21_175559_Ch1/2_00	Coarse sand with shell fragments	Arthropoda (Paguroidea), Chordata (Actinopterygii, Pleuronectiformes), Cnidaria (<i>A. digitatum</i> , <i>P. phosphorea</i>), Mollusca (<i>A. islandica</i> , Bivalvia, Gastropoda, Scaphopoda)	RH, MC	40	3909	3948	Confirmed presence of <i>A. islandica</i>		
AA_ENV_05	21-Apr-2023	18:48:29	19:01:13	00:12:44	54463_AA_ENV_05_00012.MTS	54463_AA_ENV_05_2023-04-21_184829_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Chordata (Actinopterygii, Pleuronectiformes, Triglidae), Cnidaria (<i>A. digitatum</i> , Hydrozoa), Echinodermata (Asteroidea), Mollusca (Bivalvia)	RH, MC	39	3949	3982	Issue with EELs, Incorrect fix number issued 3982		
AA_ENV_25	21-Apr-2023	20:13:32	20:26:35	00:13:03	54463_AA_ENV_25_00013.MTS	54463_AA_ENV_25_2023-04-21_201332_Ch1/2_00	Fine sand with shell fragments and occasional boulders	Arthropoda (Paguroidea), Chordata (Actinopterygii), Cnidaria (<i>A. digitatum</i> , Hydrozoa, <i>P. phosphorea</i>), Echinodermata (Asteroidea, Echinoidea), Mollusca (Gastropoda)	RH, MC	40	3983	4022			

APPENDIX B FIELD SAMPLING LOGS

SEABED IMAGERY LOG SHEET (Deck)										FOR-ENV-0538						
Job No: 54463			Area: North Sea			Scale: Green Line Lasers (99mm)										
Project: Caledonia OWF Phase 2						Equipment: 1Cam / OE Kongsberg 14-208 / CT3022										
Client: Caledonia Offshore Windfarm Limited						Vessel: MV Ocean Endeavour										
Station Number	Date	Time on Overlay Start	Time on Overlay Finish	Duration	HD Video HDD File Name(s)	Topside SD Video File Name (s)	Sediment Description	Fauna Description	Operator(s)	No. of Photos	First Fix No.	Last Fix No.	Comments			
AA_ENV_16	22-Apr-2023	22:00:45	22:19:53	00:19:08	54463_AA_ENV_16_00014.MTS	54463_AA_ENV_16_2023-04-21_220045_Ch1/2_00	Boulders, cobbles and coarse sand with shell fragments	Anthropoda (Brachyura, Paguroidea), Chordata (Actinopterygii, Pleuronectiformes), Cnidaria (Hydrozoa, <i>P. phosphorea</i>), Echinodermata (Asteroidea, Echinoidea), Mollusca (Bivalvia)	MJ, JH	46	4023	4069				
AA_ENV_21	22-Apr-2023	06:07:42	06:22:20	00:14:38	54463_AA_ENV_21_00015.MTS	54463_AA_ENV_21_2023-04-22_060742_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Anthropoda (<i>Nephrops norvegicus</i>), Chordata (Actinopterygii, Pleuronectiformes)	MJ, JH	41	4070	4110				
AA_ENV_40	22-Apr-2023	08:15:55	08:30:23	00:14:28	54463_AA_ENV_40_00016.MTS	54463_AA_ENV_40_2023-04-22_081555_Ch1/2_00	Fine sand with faunal burrows with shell fragments	Chordata (Pleuronectiformes), Cnidaria (Hydrozoa), Echinodermata (Asteroidea)	MJ, JH	44	4111	4154				
AA_ENV_24	22-Apr-2023	10:07:58	10:33:01	00:25:03	54463_AA_ENV_24_00017.MTS	54463_AA_ENV_24_2023-04-22_100758_Ch1/2_00	Coarse sand with shell fragments	Anthropoda (Paguroidea), Chordata (Pleuronectiformes), Cnidaria (<i>A. digitatum</i> , Hydrozoa, <i>P. phosphorea</i>), Mollusca (Bivalvia, <i>A. islandica</i>)	RH, MC	41	4155	4194	Confirmed presence of <i>A. islandica</i>			

APPENDIX B FIELD SAMPLING LOGS

Seafloor Sampling Positioning Summary																	
Job No	54464						Vessel	MV Ocean Endeavour									
Client	Caledonia Offshore Windfarm Limited						Vessel Reference Point (VRP)	CoG									
Project Name	Caledonia OWF Phase 2						Deployment Location	Camera Deployment Node			x	6.7	y	21.94	z	2.93	
Primary Positioning System	Starpack 1						Actual Coordinates derived from	Vessel or Beacon									
Geodetic Reference System	Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT			
Date	Time (UTC)	Fix number	Stn No	Penetration	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks	
								Easting	Northing	Easting	Northing	dE	dN	Range	Bearing		
14-Apr-2023	18:49	116	AA_ENV_19	40%	MFA	HG	70	534677	6432889	534678	6432888	-1	2	2	327	SG	
14-Apr-2023	18:56	117	AA_ENV_19	-	No sample	HG	70	534678	6432887	534678	6432888	0	-1	1	200	SG	Low retention
14-Apr-2023	19:03	118	AA_ENV_19	-	No sample	HG	70	534676	6432891	534678	6432888	-3	3	4	318	SG	Low retention
14-Apr-2023	19:09	119	AA_ENV_19	30%	No sample	HG	70	534678	6432888	534678	6432888	-1	0	1	262	SG	Low retention
14-Apr-2023	19:19	120	AA_ENV_19	20%	No sample	HG	70	534677	6432896	534678	6432888	-1	8	8	354	SG	moved 10m to N, Low retention
14-Apr-2023	19:24	121	AA_ENV_19	40%	MFB	HG	70	534676	6432896	534678	6432888	-2	9	9	347	SG	
14-Apr-2023	22:18	122	AA_ENV_22	50%	MFA	HG	65	533804	6437587	533805	6437586	-1	1	1	324	SG	
14-Apr-2023	22:26	123	AA_ENV_22	90%	MFB	HG	65	533805	6437586	533805	6437586	0	0	0	101	SG	
14-Apr-2023	22:42	124	AA_ENV_22	30%	No sample	HG	65	533805	6437587	533805	6437586	1	1	1	47	SG	Low retention
14-Apr-2023	22:53	125	AA_ENV_22	-	No sample	HG	65	533806	6437587	533805	6437586	1	1	2	61	PL	Low retention
14-Apr-2023	23:00	126	AA_ENV_22	-	No sample	HG	65	533805	6437588	533805	6437586	1	2	2	25	PL	Rock in grab jaws
14-Apr-2023	23:12	127	AA_ENV_22	-	No sample	HG	65	533804	6437587	533805	6437586	0	1	1	354	PL	Rock in grab jaws
14-Apr-2023	23:22	128	AA_ENV_22	50%	CHEM	DG	64	533797	6437587	533805	6437586	-7	0	7	273	PL	
15-Apr-2023	03:24	129	AA_ENV_34	70%	MFA	HG	68	528679	6440176	528681	6440177	-2	-1	2	243	PL	
15-Apr-2023	03:36	130	AA_ENV_34	40%	MFB	HG	68	528679	6440177	528681	6440177	-3	0	3	261	PL	
15-Apr-2023	04:00	131	AA_ENV_34	50%	CHEM	DG	68	528677	6440177	528681	6440177	-4	0	4	264	PL	
15-Apr-2023	06:00	132	AA_ENV_09	40%	MFA	HG	58	526073	6443052	526070	6443054	3	-2	4	119	PL	
15-Apr-2023	06:08	133	AA_ENV_09	50%	MFB	HG	58	526072	6443049	526070	6443054	2	-5	5	161	PL	
15-Apr-2023	07:40	134	AA_ENV_17	20%	No sample	HG	55	528667	6443788	528669	6443788	-2	0	2	275	PL	Low retention
15-Apr-2023	07:49	135	AA_ENV_17	20%	No sample	HG	55	528669	6443787	528669	6443788	-1	-1	1	223	PL	Low retention
15-Apr-2023	07:57	136	AA_ENV_17	40%	MFA	HG	55	528667	6443788	528669	6443788	-2	0	2	282	PL	
15-Apr-2023	08:04	137	AA_ENV_17	10%	No sample	HG	55	528667	6443788	528669	6443788	-2	0	2	274	PL	Low retention
15-Apr-2023	08:18	138	AA_ENV_17	60%	MFB	HG	55	528690	6443811	528669	6443788	21	23	31	42	PL	
15-Apr-2023	12:28	139	AA_ENV_07	20%	No sample	HG	55	528478	6448028	528478	6448025	0	3	3	358	SG	Low retention
15-Apr-2023	12:36	140	AA_ENV_07	20%	No sample	HG	55	528463	6448031	528478	6448025	-15	6	16	293	SG	Low retention, vessel struggling to hold position
15-Apr-2023	12:42	141	AA_ENV_07	20%	No sample	HG	55	528477	6448026	528478	6448025	-1	1	1	316	SG	Low retention
15-Apr-2023	13:38	142	AA_ENV_07	20%	No sample	HG	55	528481	6448022	528478	6448025	3	-3	5	134	SG	Low retention
15-Apr-2023	13:44	143	AA_ENV_07	40%	MFA	HG	55	528486	6448020	528478	6448025	8	-5	10	122	SG	Moved 10m to S
15-Apr-2023	13:50	144	AA_ENV_07	40%	MFB	HG	55	528485	6448018	528478	6448025	8	-6	10	130	SG	
15-Apr-2023	14:01	145	AA_ENV_07	60%	CHEM	DG	55	528484	6448020	528478	6448025	6	-5	8	128	SG	
15-Apr-2023	15:28	146	AA_ENV_23	40%	MFA	HG	54	526343	6451077	526340	6451078	4	-2	4	114	SG	
15-Apr-2023	15:34	147	AA_ENV_23	50%	MFB	HG	54	526338	6451077	526340	6451078	-2	-1	2	237	SG	
15-Apr-2023	17:31	148	AA_ENV_20	-	No sample	HG	54	526163	6454740	526165	6454740	-1	0	1	258	SG	Rock in grab jaws
15-Apr-2023	17:36	149	AA_ENV_20	-	No sample	HG	54	526164	6454741	526165	6454740	0	1	1	337	SG	Rock in grab jaws
15-Apr-2023	17:47	150	AA_ENV_20	0%	No sample	HG	54	526160	6454747	526165	6454740	-5	7	9	326	SG	Low retention

APPENDIX B FIELD SAMPLING LOGS

Seafloor Sampling Positioning Summary																	
Job No		54464				Vessel		MV Ocean Endeavour									
Client		Caledonia Offshore Windfarm Limited				Vessel Reference Point (VRP)		CoG									
Project Name		Caledonia OWF Phase 2				Deployment Location		Camera Deployment Node			x	6.7	y	21.94	z	2.93	
Primary Positioning System		Starpack 1				Actual Coordinates derived from		Vessel or Beacon									
Geodetic Reference System		Datum	WGS 84 - WGS 84			Ellipsoid	WGS 84			Projection	UTM zone 30N			Vertical / Tidal Datum	VORF, LAT		
Date	Time (UTC)	Fix number	Stn No	Penetration	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks	
15-Apr-2023	17:57	151	AA_ENV_20	0%	No sample	HG	54	Easting	Northing	Easting	Northing	dE	dN	Range	Bearing	SG	Moved 10m to NW, Low retention
15-Apr-2023	18:02	152	AA_ENV_20	-	No sample	HG	54	526159	6454747	526165	6454740	-5	6	8	318	SG	Rock in grab jaws
15-Apr-2023	18:08	153	AA_ENV_20	0%	No sample	HG	54	526150	6454748	526165	6454740	-14	8	16	298	SG	Low retention, Station abandoned
18-Apr-2023	21:28	154	AA_ENV_01	40%	MFA	HG	56	530016	6454654	530014	6454656	2	-2	2	133	SG	
18-Apr-2023	21:34	155	AA_ENV_01	20%	No sample	HG	56	530013	6454655	530014	6454656	-1	-1	1	238	SG	Low retention
18-Apr-2023	21:40	156	AA_ENV_01	50%	MFB	HG	56	530014	6454657	530014	6454656	0	1	1	23	SG	
19-Apr-2023	00:13	157	AA_ENV_08	>95%	MFA	HG	59	532734	6456074	532737	6456073	-2	1	3	282	PL	
19-Apr-2023	00:21	158	AA_ENV_08	>95%	MFB	HG	58	532738	6456072	532737	6456073	1	-1	1	136	PL	
19-Apr-2023	01:53	159	AA_ENV_11	90%	MFA	HG	55	532530	6458658	532532	6458657	-2	1	2	303	PL	
19-Apr-2023	02:06	160	AA_ENV_11	90%	MFB	HG	55	532532	6458658	532532	6458657	0	2	2	6	PL	
19-Apr-2023	05:11	161	AA_ENV_18	90%	MFA	HG	55	528852	6458618	528851	6458620	1	-2	2	145	PL	
19-Apr-2023	05:22	162	AA_ENV_18	90%	MFB	HG	55	528853	6458617	528851	6458620	2	-3	3	145	PL	
19-Apr-2023	05:44	163	AA_ENV_18	70%	CHEM	DG	55	528852	6458620	528851	6458620	1	1	1	48	PL	
19-Apr-2023	07:41	164	AA_ENV_13	90%	MFA	HG	51	526674	6463793	526674	6463794	-1	-2	2	201	PL	
19-Apr-2023	07:49	165	AA_ENV_13	40%	MFB	HG	51	526675	6463794	526674	6463794	1	0	1	73	PL	
19-Apr-2023	09:56	166	AA_ENV_31	90%	MFA	HG	54	525973	6460722	525974	6460723	-1	0	2	251	PL	
19-Apr-2023	10:05	167	AA_ENV_31	80%	MFB	HG	54	525975	6460724	525974	6460723	1	2	2	24	PL	
19-Apr-2023	11:30	168	AA_ENV_03	50%	MFA	HG	58	523391	6459873	523393	6459876	-2	-3	4	214	SG	
19-Apr-2023	11:35	169	AA_ENV_03	40%	MFB	HG	58	523392	6459875	523393	6459876	0	0	0	245	SG	
19-Apr-2023	12:55	170	AA_ENV_04	40%	MFA	HG	56	520936	6459461	520938	6459461	-1	0	1	269	SG	
19-Apr-2023	13:01	171	AA_ENV_04	50%	MFB	HG	56	520937	6459461	520938	6459461	-1	0	1	290	SG	
19-Apr-2023	15:44	172	AA_ENV_35	40%	MFA	HG	54	521412	6462909	521411	6462903	1	6	6	10	SG	
19-Apr-2023	15:51	173	AA_ENV_35	50%	MFB	HG	54	521411	6462905	521411	6462903	1	2	2	23	SG	
19-Apr-2023	16:15	174	AA_ENV_35	60%	CHEM	DG	54	521411	6462906	521411	6462903	1	3	3	14	SG	
20-Apr-2023	15:09	175	AA_ENV_33	80%	MFA	HG	56	523255	6467418	523255	6467414	0	4	4	3	SG	
20-Apr-2023	15:16	176	AA_ENV_33	80%	MFB	HG	56	523258	6467417	523255	6467414	3	3	4	47	SG	
20-Apr-2023	15:29	177	AA_ENV_33	80%	CHEM	DG	56	523257	6467416	523255	6467414	2	2	3	41	SG	
20-Apr-2023	17:11	178	AA_ENV_14	40%	MFA	HG	58	519355	6467399	519351	6467394	4	5	6	37	SG	
20-Apr-2023	17:16	179	AA_ENV_14	40%	MFB	HG	58	519351	6467394	519351	6467394	0	0	0	113	SG	
20-Apr-2023	19:13	180	AA_ENV_02	30%	No sample	HG	59	521550	6465753	521551	6465754	-1	-1	1	217	SG	Low retention
20-Apr-2023	19:18	181	AA_ENV_02	30%	No sample	HG	59	521550	6465754	521551	6465754	0	-1	1	219	SG	Low retention
20-Apr-2023	19:24	182	AA_ENV_02	30%	No sample	HG	59	521551	6465753	521551	6465754	0	-1	1	169	SG	Low retention
20-Apr-2023	19:31	183	AA_ENV_02	20%	No sample	HG	59	521544	6465747	521551	6465754	-6	-7	10	222	SG	Moved 10m SW, Low retention
20-Apr-2023	19:36	184	AA_ENV_02	40%	MFA	HG	59	521543	6465747	521551	6465754	-7	-8	10	224	SG	
20-Apr-2023	19:41	185	AA_ENV_02	40%	MFB	HG	60	521544	6465747	521551	6465754	-7	-8	10	221	SG	
20-Apr-2023	22:00	186	AA_ENV_32	50%	MFA	HG	59	532374	6452532	532374	6452533	0	-1	1	164	SG	
20-Apr-2023	22:07	187	AA_ENV_32	40%	MFB	HG	59	532373	6452533	532374	6452533	0	0	0	264	SG	
21-Apr-2023	00:02	188	AA_ENV_29	50%	MFA	HG	65	537960	6451158	537961	6451159	-1	-1	1	240	PL	
21-Apr-2023	00:11	189	AA_ENV_29	50%	MFB	HG	65	537955	6451159	537961	6451159	-6	1	6	275	PL	

APPENDIX B FIELD SAMPLING LOGS

Seafloor Sampling Positioning Summary																	
Job No		Vessel					MV Ocean Endeavour										
Client		Vessel Reference Point (VRP)					CoG										
Project Name		Deployment Location					Camera Deployment Node			x	6.7						
Primary Positioning System		Actual Coordinates derived from					Vessel or Beacon			y	21.94						
Geodetic Reference System		Datum	WGS 84 - WGS 84		Ellipsoid	WGS 84		Projection	UTM zone 30N		Vertical / Tidal Datum	VORF, LAT					
Date	Time (UTC)	Fix number	Stn No	Penetration	Sample Retention	Retention	Observed Seafloor Depth (m)	Actual coordinates		Target coordinates		Offset from target			Surveyor	Remarks	
21-Apr-2023	01:45	190	AA_ENV_27	50%	MFA	HG	61	535301	6448609	535303	6448610	-2	0	2	256	PL	
21-Apr-2023	01:54	191	AA_ENV_27	40%	MFB	HG	61	535302	6448609	535303	6448610	-1	-1	2	240	PL	
21-Apr-2023	03:28	192	AA_ENV_06	40%	MFA	HG	64	535807	6445820	535808	6445823	-1	-3	3	195	PL	
21-Apr-2023	03:41	193	AA_ENV_06	50%	MFB	HG	64	535807	6445823	535808	6445823	-1	0	1	256	PL	
21-Apr-2023	06:07	194	AA_ENV_28	60%	MFA	HG	55	531131	6448650	531132	6448650	-2	1	2	295	PL	
21-Apr-2023	06:15	195	AA_ENV_28	60%	MFB	HG	55	531125	6448647	531132	6448650	-8	-3	8	249	PL	
21-Apr-2023	09:39	196	AA_ENV_15	60%	MFA	HG	65	533432	6444277	533430	6444276	2	1	2	61	PL	
21-Apr-2023	09:52	197	AA_ENV_15	50%	MFB	HG	65	533429	6444270	533430	6444276	-1	-5	6	191	PL	
21-Apr-2023	10:10	198	AA_ENV_15	50%	CHEM	DG	65	533431	6444272	533430	6444276	0	-3	4	174	PL	
21-Apr-2023	11:36	199	AA_ENV_10	60%	MFA	HG	63	530892	6442119	530892	6442123	0	-4	4	180	SG	
21-Apr-2023	11:41	200	AA_ENV_10	90%	MFB	HG	63	530892	6442122	530892	6442123	0	-1	1	173	SG	
21-Apr-2023	12:52	201	AA_ENV_26	50%	MFA	HG	70	532586	6439724	532588	6439724	-2	0	2	257	SG	
21-Apr-2023	12:59	202	AA_ENV_26	20%	No sample	HG	70	532587	6439724	532588	6439724	-1	0	1	270	SG	Low retention
21-Apr-2023	13:05	203	AA_ENV_26	70%	MFB	HG	70	532587	6439724	532588	6439724	-1	0	1	257	SG	
21-Apr-2023	16:10	204	AA_ENV_12	40%	MFA	HG	71	531952	6433904	531953	6433903	-1	1	1	297	SG	
21-Apr-2023	16:17	205	AA_ENV_12	40%	MFB	HG	71	531952	6433903	531953	6433903	-1	-1	1	241	SG	
21-Apr-2023	16:29	206	AA_ENV_12	50%	CHEM	DG	71	531956	6433897	531953	6433903	3	-7	7	158	SG	
21-Apr-2023	18:01	207	AA_ENV_30	60%	MFA	HG	79	535608	6436085	535609	6436089	-1	-3	4	195	SG	
21-Apr-2023	18:08	208	AA_ENV_30	60%	MFB	HG	79	535605	6436083	535609	6436089	-5	-6	8	217	SG	
21-Apr-2023	20:12	209	AA_ENV_05	20%	No sample	HG	64	535651	6440719	535650	6440720	1	-1	2	142	SG	Low retention
21-Apr-2023	20:17	210	AA_ENV_05	40%	MFA	HG	64	535648	6440723	535650	6440720	-2	3	3	331	SG	
21-Apr-2023	20:23	211	AA_ENV_05	40%	MFB	HG	64	535648	6440722	535650	6440720	-1	2	2	317	SG	
21-Apr-2023	21:40	212	AA_ENV_25	50%	MFA	HG	69	537271	6443697	537275	6443701	-4	-5	6	223	SG	
21-Apr-2023	22:07	213	AA_ENV_25	40%	MFB	HG	70	537274	6443701	537275	6443701	-1	0	1	271	SG	
22-Apr-2023	04:15	214	AA_ENV_16	50%	MFA	HG	75	539557	6444753	539559	6444756	-2	-3	4	218	PL	
22-Apr-2023	04:30	215	AA_ENV_16	40%	MFB	HG	75	539557	6444754	539559	6444756	-2	-2	2	228	PL	
22-Apr-2023	07:44	216	AA_ENV_21	>95%	MFA	HG	103	541069	6447876	541069	6447876	0	0	0	150	PL	
22-Apr-2023	08:04	217	AA_ENV_21	>95%	MFB	HG	103	541069	6447875	541069	6447876	0	-1	1	154	PL	
22-Apr-2023	08:23	218	AA_ENV_21	90%	CHEM	DG	104	541067	6447876	541069	6447876	-2	0	2	281	PL	
22-Apr-2023	11:46	219	AA_ENV_24	30%	No sample	HG	66	536668	6453669	536668	6453672	0	-3	3	188	SG	Low retention
22-Apr-2023	11:51	220	AA_ENV_24	50%	MFA	HG	66	536667	6453670	536668	6453672	-1	-2	2	197	SG	
22-Apr-2023	11:58	221	AA_ENV_24	50%	MFB	HG	66	536670	6453670	536668	6453672	2	-2	3	138	SG	
22-Apr-2023	12:12	222	AA_ENV_24	70%	CHEM	DG	66	536669	6453673	536668	6453672	1	1	2	63	SG	

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)								FOR-ENV-0539						
Job No:	54463		Area:	North Sea				Sieve Size: 1mm						
Project:	Caledonia OWF Phase 2							Equipment: Mini-Hamon Grab, Day Grab						
Client:	Caledonia Offshore Windfarm Limited							Vessel: MV Ocean Endeavour						
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments				
1	AA_ENV_19	14-Apr-23	18:49	40%	MFA	1 x 1L 1 x ziplock bag	Fine to medium sand with occasional shell fragments Munsell: 2.5Y 4/1	No visible fauna	RH, MC	PSA				
2	AA_ENV_19	14-Apr-23	18:56	0%	No sample				RH, MC					
3	AA_ENV_19	14-Apr-23	19:03	0%	No sample				RH, MC					
4	AA_ENV_19	14-Apr-23	19:09	30%	No sample				RH, MC	Low retention				
5	AA_ENV_19	14-Apr-23	19:19	20%	No sample				RH, MC	Low retention				
6	AA_ENV_19	14-Apr-23	19:24	40%	MFB	1 x 1L 1 x ziplock bag	Fine to medium sand with occasional shell fragments Munsell: 2.5Y 4/1	Annelida (Polychaeta), Arthropoda (Brachyura)	RH, MC	PSA Spare				
7	AA_ENV_22	14-Apr-23	22:18	50%	MFA	1 x 5L 2 x ziplock bag	Coarse sand with gravel and shells Munsell: 10YR 5/6	Annelida (Polychaeta)	RH, MC	PSA eDNA				
8	AA_ENV_22	14-Apr-23	22:26	90%	MFB	3 x 5L 2 x ziplock bag	Coarse sand with gravel and shells Munsell: 10YR 5/6	No visible fauna	RH, MC	PSA Spare eDNA Spare				
9	AA_ENV_22	14-Apr-23	22:42	30%	No sample				RH, MC	Low retention				
10	AA_ENV_22	14-Apr-23	22:53	0%	No sample				RH, MC	Rock in grab jaws				
11	AA_ENV_22	14-Apr-23	23:00	0%	No sample				RH, MC	Rock in grab jaws				
12	AA_ENV_22	14-Apr-23	23:12	0%	No sample				RH, MC	Low retention				
13	AA_ENV_22	14-Apr-23	23:22	50%	CHEM	2 x 1L Jar	Coarse sand with gravel and shells Munsell: 10YR 5/6	No visible fauna	RH, MC	Moved 10m W. CHEM and CHEM Spare				
14	AA_ENV_34	15-Apr-23	03:24	70%	MFA	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 5/4	Annelida (Polychaeta), Echinodermata (Spatangoidea, Ophiuroidea), Mollusca (Scaphopoda)	MJ, JH	PSA eDNA				
15	AA_ENV_34	15-Apr-23	03:36	40%	MFB	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 5/4	No visible fauna	MJ, JH	PSA Spare eDNA Spare				
16	AA_ENV_34	15-Apr-23	04:00	50%	CHEM	2 x 1L Jar	Fine sand with occasional shell fragments Munsell: 5Y 5/4	No visible fauna	MJ, JH	CHEM and CHEM Spare				
17	AA_ENV_09	15-Apr-23	06:00	40%	MFA	1 x 1L 1 x ziplock bag	Fine to medium sand with occasional shell fragments Munsell: 5Y 4/3	Arthropoda	MJ, JH	PSA				
18	AA_ENV_09	15-Apr-23	06:08	50%	MFB	1 x 1L 1 x ziplock bag	Fine to medium sand with occasional shell fragments Munsell: 5Y 4/3	Arthropoda	MJ, JH	PSA Spare				
19	AA_ENV_17	15-Apr-23	07:40	20%	No sample		Cobbles: 50%		MJ, JH	Low retention				
20	AA_ENV_17	15-Apr-23	07:49	20%	No sample		Cobbles: 30%		MJ, JH	Low retention				

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)									FOR-ENV-0539						
Job No:	54463		Area:	North Sea				Sieve Size:	1mm						
Project:	Caledonia OWF Phase 2							Equipment:	Mini-Hamon Grab, Day Grab						
Client:	Caledonia Offshore Windfarm Limited							Vessel:	MV Ocean Endeavour						
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments					
21	AA_ENV_17	15-Apr-23	07:57	40%	MFA	2 x 5L 1 x ziplock bag	Coarse sand with cobbles, gravel and shells Munsell: 5Y 6/6 Cobbles: 10%	Annelida (Serpulidae), Cnidaria (Hydrozoa)	MJ, JH	PSA					
22	AA_ENV_17	15-Apr-23	08:04	10%	No sample				MJ, JH	Low retention					
23	AA_ENV_17	15-Apr-23	08:18	60%	MFB	2 x 5L 1 x ziplock bag	Coarse sand with cobbles, gravel and shells Munsell: 5Y 6/6 Cobbles: 10%	No visible fauna	MJ, JH	PSA Spare					
24	AA_ENV_07	15-Apr-23	12:28	20%	No sample				RH, MC	Low retention					
25	AA_ENV_07	15-Apr-23	12:36	20%	No sample				RH, MC	Low retention					
26	AA_ENV_07	15-Apr-23	12:42	20%	No sample				RH, MC	Low retention					
27	AA_ENV_07	15-Apr-23	13:38	20%	No sample				RH, MC	Low retention					
28	AA_ENV_07	15-Apr-23	13:44	40%	MFA	1 x 1L 2 x ziplock bag	Coarse sand with cobbles, gravel and shells Munsell: 5Y 6/6 Cobbles: 10%	Mollusca (<i>A. islandica</i>)	RH, MC	PSA eDNA <i>A. islandica</i> : L 93.3 mm; H 78.44 mm; W 48.8 mm; weight 163.0g					
29	AA_ENV_07	15-Apr-23	13:50	40%	MFB	1 x 1L 2 x ziplock bag	Coarse sand with cobbles, gravel and shells Munsell: 5Y 6/6 Cobbles: 10%	Annelida (Polychaeta), Mollusca (<i>A. islandica</i>)	RH, MC	PSA Spare eDNA Spare <i>A. islandica</i> : L 86.66 mm; H 78.44 mm; W 46.88 mm; weight 254.5g					
30	AA_ENV_07	15-Apr-23	14:01	60%	CHEM	2 x 1L Jar	Coarse sand with cobbles, gravel and shells Munsell: 5Y 6/6 Cobbles: 10%	No visible fauna	RH, MC	CHEM and CHEM Spare					
31	AA_ENV_23	15-Apr-23	15:28	40%	MFA	1 x 5L 1 x ziplock bag	Fine to medium sand with occasional shell fragments Munsell: 5Y 6/6	Annelida (Polychaeta)	RH, MC	PSA					
32	AA_ENV_23	15-Apr-23	15:34	50%	MFB	1 x 5L 1 x ziplock bag	Fine to medium sand with occasional shell fragments Munsell: 5Y 6/6	Annelida (Polychaeta)	RH, MC	PSA Spare					
33	AA_ENV_20	15-Apr-23	17:31	0%	No sample				RH, MC	Rock in grab jaws					
34	AA_ENV_20	15-Apr-23	17:36	0%	No sample				RH, MC	Rock in grab jaws					
35	AA_ENV_20	15-Apr-23	17:47	0%	No sample				RH, MC	Grab empty					
36	AA_ENV_20	15-Apr-23	17:57	0%	No sample				RH, MC	Moved 10m S, Grab empty					
37	AA_ENV_20	15-Apr-23	18:02	0%	No sample				RH, MC	Rock in grab jaws					

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)								FOR-ENV-0539				
Job No:	54463	Area:	North Sea					Sieve Size: 1mm				
Project:	Caledonia OWF Phase 2					Equipment: Mini-Hamon Grab, Day Grab						
Client:	Caledonia Offshore Windfarm Limited					Vessel: MV Ocean Endeavour						
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments		
38	AA_ENV_20	15-Apr-23	18:08	0%	No sample				RH, MC	Grab empty, station abandoned		
39	AA_ENV_01	18-Apr-23	21:28	40%	MFA	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 4/6	No visible fauna	RH, MC	PSA		
40	AA_ENV_01	18-Apr-23	21:34	20%	No sample				RH, MC	Low retention		
41	AA_ENV_01	18-Apr-23	21:40	50%	MFB	1 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 4/6	Annelida (Polychaeta)	RH, MC	PSA Spare		
42	AA_ENV_08	19-Apr-23	00:13	>95%	MFA	2 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/4 Cobble: 1%	Mollusca (Scaphopoda)	MJ, JH	PSA		
43	AA_ENV_08	19-Apr-23	00:21	>95%	MFB	2 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/4 Cobble: 1%	Mollusca (Scaphopoda)	MJ, JH	PSA Spare		
44	AA_ENV_11	19-Apr-23	01:53	90%	MFA	2 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/4	No visible fauna	MJ, JH	PSA		
45	AA_ENV_11	19-Apr-23	02:06	90%	MFB	2 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/4	No visible fauna	MJ, JH	PSA Spare		
46	AA_ENV_18	19-Apr-23	05:11	90%	MFA	1 x 1L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/3	No visible fauna	MJ, JH	PSA eDNA		
47	AA_ENV_18	19-Apr-23	05:22	90%	MFB	1 x 1L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/3	Annelida, Echinodermata, Mollusca (Scaphopoda)	MJ, JH	PSA Spare eDNA Spare		
48	AA_ENV_18	19-Apr-23	05:44	70%	CHEM	2 x 1L Jar	Coarse sand with shell fragments Munsell: 5Y 4/3	No visible fauna	MJ, JH	CHEM and CHEM Spare		
49	AA_ENV_13	19-Apr-23	07:41	90%	MFA	3 x 5L 1 x ziplock bag	Coarse sand with cobbles, gravel and shells Munsell: 10YR 5/6 Cobbles: 5%	Annelida (Polychaeta)	MJ, JH	PSA		
50	AA_ENV_13	19-Apr-23	07:49	40%	MFB	2 x 5L 1 x ziplock bag	Coarse sand with cobbles, gravel and shells Munsell: 10YR 5/6 Cobbles: 10%	Annelida (Polychaeta)	MJ, JH	PSA Spare		
51	AA_ENV_31	19-Apr-23	09:56	90%	MFA	3 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/3	Annelida (Polychaeta)	MJ, JH	PSA		
52	AA_ENV_31	19-Apr-23	10:05	80%	MFB	3 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/3	No visible fauna	MJ, JH	PSA Spare		

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)								FOR-ENV-0539				
Job No:	54463	Area:	North Sea					Sieve Size: 1mm				
Project:	Caledonia OWF Phase 2					Equipment: Mini-Hamon Grab, Day Grab						
Client:	Caledonia Offshore Windfarm Limited					Vessel: MV Ocean Endeavour						
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments		
53	AA_ENV_03	19-Apr-23	11:30	50%	MFA	1 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 3/6	Annelida (Polychaeta)	RH, MC	PSA		
54	AA_ENV_03	19-Apr-23	11:35	40%	MFB	1 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 3/6	Annelida (Polychaeta), Mollusca (Bivalvia)	RH, MC	PSA Spare		
55	AA_ENV_04	19-Apr-23	12:55	40%	MFA	1 x 5L 1 x ziplock bag	Coarse sand with gravel and shell fragments Munsell: 10YR 3/3	Annelida (Polychaeta)	RH, MC	PSA		
56	AA_ENV_04	19-Apr-23	13:01	50%	MFB	2 x 5L 1 x ziplock bag	Coarse sand with gravel and shell fragments Munsell: 10YR 3/3	Annelida (Polychaeta), Mollusca (Scaphopoda)	RH, MC	PSA Spare		
57	AA_ENV_35	19-Apr-23	15:44	40%	MFA	1 x 1L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 4/3	Annelida (Polychaeta)	RH, MC	PSA eDNA		
58	AA_ENV_35	19-Apr-23	15:51	50%	MFB	1 x 1L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 4/3	Annelida (Polychaeta)	RH, MC	PSA Spare eDNA Spare		
59	AA_ENV_35	19-Apr-23	16:15	60%	CHEM	2 x 1L Jar	Coarse sand with shell fragments Munsell: 10YR 4/3	No visible fauna	RH, MC	CHEM and CHEM Spare		
60	AA_ENV_33	20-Apr-23	15:09	80%	MFA	1 x 5L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 4/3	Annelida (Polychaete), Mollusca (Bivalvia)	RH, MC	PSA eDNA		
61	AA_ENV_33	20-Apr-23	15:16	80%	MFB	1 x 5L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 4/3	Annelida (Polychaete), Mollusca (Bivalvia)	RH, MC	PSA Spare eDNA Spare		
62	AA_ENV_33	20-Apr-23	15:29	80%	CHEM	2 x 1L Jar	Coarse sand with shell fragments Munsell: 10YR 4/3	No visible fauna	RH, MC	CHEM and CHEM Spare		
63	AA_ENV_14	20-Apr-23	17:11	40%	MFA	1 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 3/3	Mollusca (Scaphopoda)	RH, MC	PSA		
64	AA_ENV_14	20-Apr-23	17:16	40%	MFB	1 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 3/3	Annelida (Polychaeta), Mollusca (Scaphopoda)	RH, MC	PSA Spare		
65	AA_ENV_02	20-Apr-23	19:13	30%	No sample				RH, MC	Low retention		
66	AA_ENV_02	20-Apr-23	19:18	30%	No sample				RH, MC	Low retention		
67	AA_ENV_02	20-Apr-23	19:24	30%	No sample				RH, MC	Low retention		
68	AA_ENV_02	20-Apr-23	19:31	20%	No sample				RH, MC	Moved 10m SW, Low retention		
69	AA_ENV_02	20-Apr-23	19:36	40%	MFA	1 x 1L 1 x ziplock bag	Coarse sand with gravel and shell fragments Munsell: 10YR 4/2	Annelida (Polychaeta)	RH, MC	PSA		

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)								FOR-ENV-0539				
Job No:	54463	Area:	North Sea					Sieve Size: 1mm				
Project:	Caledonia OWF Phase 2					Equipment: Mini-Hamon Grab, Day Grab						
Client:	Caledonia Offshore Windfarm Limited					Vessel: MV Ocean Endeavour						
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments		
70	AA_ENV_02	20-Apr-23	19:41	40%	MFB	1 x 1L 1 x ziplock bag	Coarse sand with gravel and shell fragments Munsell: 10YR 4/2	Annelida (Polychaeta)	RH, MC	PSA Spare		
71	AA_ENV_32	20-Apr-23	22:00	50%	MFA	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 3/1	Annelida (Polychaete), Mollusca (Bivalvia, Scaphoda)	MJ, JH	PSA		
72	AA_ENV_32	20-Apr-23	22:07	40%	MFB	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 10YR 3/1	Annelida (Polychaeta)	MJ, JH	PSA Spare		
73	AA_ENV_29	21-Apr-23	00:02	50%	MFA	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta), Mollusca (Bivalvia)	MJ, JH	PSA		
74	AA_ENV_29	21-Apr-23	00:11	50%	MFB	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta)	MJ, JH	PSA Spare		
75	AA_ENV_27	21-Apr-23	01:45	50%	MFA	3 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/6	No visible fauna	MJ, JH	PSA		
76	AA_ENV_27	21-Apr-23	01:54	40%	MFB	1 x 5L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/6	Mollusca (<i>A. islandica</i>)	MJ, JH	PSA Spare <i>A. islandica</i> : Length 82.39 mm Height 71.20 mm Width 42.96 mm Mass 155.0 g		
77	AA_ENV_06	21-Apr-23	03:28	40%	MFA	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/4	Annelida (Polychaeta), Echinodermata (Ophiuroidea)	MJ, JH	PSA		
78	AA_ENV_06	21-Apr-23	03:41	50%	MFB	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/4	No visible fauna	MJ, JH	PSA Spare		
79	AA_ENV_28	21-Apr-23	06:07	60%	MFA	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/4	Annelida (Polychaeta), Mollusca (Scaphopoda)	MJ, JH	PSA		
80	AA_ENV_28	21-Apr-23	06:15	60%	MFB	1 x 1L 1 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 5/4	Annelida (Polychaeta), Mollusca (Scaphopoda)	MJ, JH	PSA Spare		
81	AA_ENV_15	21-Apr-23	09:39	60%	MFA	1 x 1L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 6/8	Annelida (Polychaeta), Mollusca (<i>A. islandica</i> , Bivalvia, Scaphopoda)	MJ, JH	PSA eDNA <i>A. islandica</i> : Length 82.31 mm Height 75.14 mm Width 45.74 mm Mass 150 g		

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)									FOR-ENV-0539			
Job No:	54463	Area:	North Sea						Sieve Size: 1mm			
Project:	Caledonia OWF Phase 2						Equipment: Mini-Hamon Grab, Day Grab					
Client:	Caledonia Offshore Windfarm Limited						Vessel: MV Ocean Endeavour					
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments		
82	AA_ENV_15	21-Apr-23	09:52	50%	MFB	1 x 1L 2 x ziplock bag	Coarse sand with shell fragments Munsell: 5Y 6/8	Annelida (Polychaeta), Mollusca (Scaphopoda)	MJ, JH	PSA Spare eDNA Spare		
83	AA_ENV_15	21-Apr-23	10:10	50%	CHEM	2 x 1L Jar	Coarse sand with shell fragments Munsell: 5Y 6/8	No visible fauna	MJ, JH	CHEM and CHEM Spare		
84	AA_ENV_10	21-Apr-23	11:36	60%	MFA	3 x 5L 1 x ziplock bag	Coarse sand with gravel and shellss Munsell: 10Y 4/3	Annelida (Polychaeta), Mollusca (Bivalvia)	MJ, JH	PSA		
85	AA_ENV_10	21-Apr-23	11:41	90%	MFB	3 x 5L 1 x ziplock bag	Coarse sand with gravel and shellss Munsell: 10Y 4/3	Annelida (Polychaeta), Mollusca (Bivalvia)	MJ, JH	PSA Spare		
86	AA_ENV_26	21-Apr-23	12:52	50%	MFA	1 x 1L 1 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 3/2	Annelida (Polychaeta)	MJ, JH	PSA		
87	AA_ENV_26	21-Apr-23	12:59	20%	No sample			Mollusca (<i>Arctica islandica</i>)	MJ, JH	Low retention, <i>Arctica islandica</i> Length 87.0 mm Height 77.1 mm Width 43.8 mm Mass 179.0 g		
88	AA_ENV_26	21-Apr-23	13:05	70%	MFB	1 x 1L 1 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 3/2	No visible fauna	MJ, JH	PSA Spare		
89	AA_ENV_12	21-Apr-23	16:10	40%	MFA	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta), Echinodermata (Ophiuroidea)	MJ, JH	PSA eDNA		
90	AA_ENV_12	21-Apr-23	16:17	40%	MFB	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta), Echinodermata (Asteroidea)	MJ, JH	PSA Spare eDNA Spare		
91	AA_ENV_12	21-Apr-23	16:29	50%	CHEM	2 x 1L Jar	Fine sand with occasional shell fragments Munsell: 5Y 4/2	No visible fauna	MJ, JH	CHEM and CHEM Spare		
92	AA_ENV_30	21-Apr-23	18:01	60%	MFA	1 x 1L 1 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta), Echinodermata (Ophiuroidea)	RH, MC	PSA		
93	AA_ENV_30	21-Apr-23	18:08	60%	MFB	1 x 1L 1 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta)	RH, MC	PSA Spare		
94	AA_ENV_05	21-Apr-23	20:12	20%	No sample				RH, MC	Low retention		
95	AA_ENV_05	21-Apr-23	20:17	40%	MFA	1 x 1L 1 x ziplock bag	Fine sand with occasional shell fragments Munsell: 10YR 3/4	Annelida (Polychaeta), Molluca (Bivalvia)	RH, MC	PSA		

APPENDIX B FIELD SAMPLING LOGS

SEABED SAMPLING LOG SHEET (Deck)								FOR-ENV-0539					
Job No:	54463		Area:	North Sea			Sieve Size: 1mm						
Project:	Caledonia OWF Phase 2						Equipment: Mini-Hamon Grab, Day Grab						
Client:	Caledonia Offshore Windfarm Limited						Vessel: MV Ocean Endeavour						
Sample Number	Station Number	Date	Time	Penetration	Sample Retention	Sample Receptacle	Sediment Description	Fauna Description	Operator(s)	Comments			
96	AA_ENV_05	21-Apr-23	20:23	40%	MFB	1 x 1L 1 x ziplock bag	Fine sand with occasional shell fragments Munsell: 10YR 3/4	Annelida (Polychaeta), Mollusca (Scaphopoda)	RH, MC	PSA Spare			
97	AA_ENV_25	21-Apr-23	21:40	50%	MFA	1 x 5L 1 x ziplock bag	Fine sand with gravel Munsell: 2.5Y 4/2	Arthropoda (Brachyura), Annelida (Polychaeta)	RH, MC	PSA			
98	AA_ENV_25	21-Apr-23	22:07	40%	MFB	1 x 5L 1 x ziplock bag	Fine sand with gravel Munsell: 2.5Y 4/2	Annelida (Polychaeta), Mollusca (Bivalvia)	RH, MC	PSA Spare			
99	AA_ENV_16	22-Apr-23	04:15	50%	MFA	1 x 1L 1 x ziplock bag	Fine sand with gravel Munsell: 5Y 4/2	Annelida (Polychaeta), Echinodermata (Ophiuroidea)	MJ, JH	PSA			
100	AA_ENV_16	22-Apr-23	04:30	40%	MFB	1 x 1L 1 x ziplock bag	Fine sand with gravel Munsell: 5Y 4/2 Cobble: 2%	Annelida (Polychaeta), Echinodermata (Ophiuroidea)	MJ, JH	PSA Spare			
101	AA_ENV_21	22-Apr-23	07:44	>95%	MFA	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta)	MJ, JH	PSA eDNA			
102	AA_ENV_21	22-Apr-23	08:04	>95%	MFB	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 5Y 4/2	Annelida (Polychaeta)	MJ, JH	PSA Spare eDNA Spare			
103	AA_ENV_21	22-Apr-23	08:23	90%	CHEM	2 x 1L Jar	Fine sand with occasional shell fragments Munsell: 5Y 4/2	No visible fauna	MJ, JH	CHEM and CHEM Spare			
104	AA_ENV_24	22-Apr-23	11:46	30%	No sample				RH, MC	Low retention			
105	AA_ENV_24	22-Apr-23	11:51	50%	MFA	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 10YR 3/3	Annelida (Polychaeta)	RH, MC	PSA eDNA			
106	AA_ENV_24	22-Apr-23	11:58	50%	MFB	1 x 1L 2 x ziplock bag	Fine sand with occasional shell fragments Munsell: 10YR 3/3	Annelida (Polychaeta), Echinodermata (Echinoidea), Mollusca (Bivalvia)	RH, MC	PSA Spare eDNA Spare			
107	AA_ENV_24	22-Apr-23	12:12	70%	CHEM	2 x 1L Jar	Fine sand with occasional shell fragments Munsell: 10YR 3/3	No visible fauna	RH, MC	CHEM and CHEM Spare			

APPENDIX B FIELD SAMPLING LOGS

Seafloor Sampling Positioning Summary																		
Job No	54463	Vessel	MV Ocean Endeavour															
Client	Caledonia Offshore Windfarm Limited	Vessel Reference Point (VRP)	COG															
Project Name	Caledonia OWF Phase 2	Deployment Location	STBD Water Sampling Deployment			x	6.7	y	21.94	z	2.93							
Primary Positioning System	Starpack 1	Actual Coordinates derived from	Water Sampling Deployment NODE															
Geodetic Reference System	Datum	WGS 84 - WGS 84	Ellipsoid	WGS 84	Projection	UTM zone 30N			Vertical / Tidal Datum									
Date	FIX Time (UTC)	Fix number	Line No/Stn No	Penetration	Sample Retention	Beacon Depth (m)	Observed Depth (m)	Reduced Depth LAT (m)	Actual coordinates	Target coordinates	Offset from target	Surveyor	Remarks					
					Easting	Northing	Easting	Northing	dE	dN	Range	Bearing						
14-Apr-2023	20:39	18	AA_ENV_22		5 Litres	60	65	62	533799	6437613	533805	6437586	-6	27	27	348	SG	
14-Apr-2023	20:54	19	AA_ENV_22		5 Litres	60	65	63	533822	6437615	533805	6437586	17	29	34	31	SG	
15-Apr-2023	01:07	20	AA_ENV_34		5 Litres	62	67	66	528636	6440202	528681	6440177	-46	25	52	299	PL	
15-Apr-2023	01:35	21	AA_ENV_34		5 Litres	62	67	66	528422	6440221	528681	6440177	-259	43	263	280	PL	Difficult for vessel to hold station
15-Apr-2023	10:21	22	AA_ENV_07		5 Litres	50	55	53	528450	6448041	528478	6448025	-28	16	32	300	PL	
15-Apr-2023	10:37	23	AA_ENV_07		5 Litres	50	55	53	528464	6448034	528478	6448025	-14	9	16	303	PL	
19-Apr-2023	03:21	24	AA_ENV_18		5 Litres	50	55	54	528833	6458657	528851	6458620	-17	38	41	335	PL	
19-Apr-2023	03:38	25	AA_ENV_18		5 Litres	50	55	54	528843	6458657	528851	6458620	-7	38	39	349	PL	
19-Apr-2023	13:58	26	AA_ENV_35		5 Litres	50	55	53	521362	6462940	521411	6462903	-49	37	61	307	SG	
19-Apr-2023	14:16	27	AA_ENV_35		5 Litres	51	56	54	521371	6462945	521411	6462903	-39	42	57	317	SG	
20-Apr-2023	13:35	28	AA_ENV_33		5 Litres	52	57	54	523202	6467404	523255	6467414	-53	-11	54	259	SG	
20-Apr-2023	13:48	29	AA_ENV_33		5 Litres	52	57	54	523199	6467413	523255	6467414	-56	-1	56	269	SG	
21-Apr-2023	07:30	30	AA_ENV_15		5 Litres	58	63	62	533408	6444307	533430	6444276	-22	32	39	325	PL	
21-Apr-2023	07:52	31	AA_ENV_15		5 Litres	58	63	62	533409	6444257	533430	6444276	-21	-18	28	229	PL	
21-Apr-2023	14:24	32	AA_ENV_12		5 Litres	68	73	69	531929	6433900	531953	6433903	-25	-3	25	262	SG	
21-Apr-2023	14:45	33	AA_ENV_12		5 Litres	68	72	69	531949	6433888	531953	6433903	-4	-15	15	195	SG	
22-Apr-2023	05:43	34	AA_ENV_21		5 Litres	98	103	102	541023	6447882	541069	6447876	-46	6	46	277	PL	
22-Apr-2023	06:00	35	AA_ENV_21		5 Litres	98	103	102	541007	6447876	541069	6447876	-62	0	62	270	PL	
22-Apr-2023	10:28	36	AA_ENV_24		5 Litres	60	65	62	536620	6453579	536668	6453672	-48	-94	105	207	PL	
22-Apr-2023	10:49	37	AA_ENV_24		5 Litres	60	65	62	536614	6453569	536668	6453672	-54	-103	117	207	SG	

APPENDIX B FIELD SAMPLING LOGS

WATER SAMPLING LOG SHEET (Deck)									FOR-ENV-0540
Job No: 54463			Area: North Sea			Volume: 5L			
Project: Caledonia OWF Phase 2						Equipment: Niskin Bottle			
Client: Caledonia Offshore Windfarm Limited						Vessel: MV Ocean Endeavour			
Sample Number	Station Number	Date	Time	Load	Overall Station Depth (m)	Sample Depth (m)	Sample Analysis	Operator(s)	Comments
1	AA_ENV_22	14-Apr-2023	20:39	5 Litres	73	5	CTD Profile, Water eDNA	RH, MC	Surface Primary
2	AA_ENV_22	14-Apr-2023	20:39	5 Litres	73	68	CTD Profile, Water eDNA	RH, MC	Bottom Primary
3	AA_ENV_22	14-Apr-2023	20:54	5 Litres	73	5	CTD Profile, Water eDNA	RH, MC	Surface Spare
4	AA_ENV_22	14-Apr-2023	20:54	5 Litres	73	68	CTD Profile, Water eDNA	RH, MC	Bottom Spare
5	AA_ENV_34	15-Apr-2023	01:07	5 Litres	65	5	CTD Profile, Water eDNA	JH, MJ	Surface Primary
6	AA_ENV_34	15-Apr-2023	01:07	5 Litres	65	60	CTD Profile, Water eDNA	JH, MJ	Bottom Primary
7	AA_ENV_34	15-Apr-2023	01:35	5 Litres	65	5	CTD Profile, Water eDNA	JH, MJ	Surface Spare - Difficult for vessel to hold station
8	AA_ENV_34	15-Apr-2023	01:35	5 Litres	65	60	CTD Profile, Water eDNA	JH, MJ	Bottom Spare - Difficult for vessel to hold station
9	AA_ENV_07	15-Apr-2023	10:21	5 Litres	55	5	CTD Profile, Water eDNA	JH, MJ	Surface Primary
10	AA_ENV_07	15-Apr-2023	10:21	5 Litres	55	50	CTD Profile, Water eDNA	JH, MJ	Bottom Primary
11	AA_ENV_07	15-Apr-2023	10:37	5 Litres	55	5	CTD Profile, Water eDNA	JH, MJ	Surface Spare
12	AA_ENV_07	15-Apr-2023	10:37	5 Litres	55	50	CTD Profile, Water eDNA	JH, MJ	Bottom Spare
13	AA_ENV_18	19-Apr-2023	03:21	5 Litres	55	5	CTD Profile, Water eDNA	JH, MJ	Surface Primary
14	AA_ENV_18	19-Apr-2023	03:21	5 Litres	55	50	CTD Profile, Water eDNA	JH, MJ	Bottom Primary
15	AA_ENV_18	19-Apr-2023	03:38	5 Litres	55	5	CTD Profile, Water eDNA	JH, MJ	Surface Spare
16	AA_ENV_18	19-Apr-2023	03:38	5 Litres	55	50	CTD Profile, Water eDNA	JH, MJ	Bottom Spare
17	AA_ENV_35	19-Apr-2023	13:58	5 Litres	55	5	CTD Profile, Water eDNA	RH, MC	Surface Primary
18	AA_ENV_35	19-Apr-2023	13:58	5 Litres	55	50	CTD Profile, Water eDNA	RH, MC	Bottom Primary
19	AA_ENV_35	19-Apr-2023	14:16	5 Litres	56	5	CTD Profile, Water eDNA	RH, MC	Surface Spare
20	AA_ENV_35	19-Apr-2023	14:16	5 Litres	56	51	CTD Profile, Water eDNA	RH, MC	Bottom Spare
21	AA_ENV_33	20-Apr-2023	13:35	5 Litres	57	5	CTD Profile, Water eDNA	RH, MC	Surface Primary
22	AA_ENV_33	20-Apr-2023	13:35	5 Litres	57	52	CTD Profile, Water eDNA	RH, MC	Bottom Primary
23	AA_ENV_33	20-Apr-2023	13:48	5 Litres	57	5	CTD Profile, Water eDNA	RH, MC	Surface Spare
24	AA_ENV_33	20-Apr-2023	13:48	5 Litres	57	52	CTD Profile, Water eDNA	RH, MC	Bottom Spare
25	AA_ENV_15	21-Apr-2023	07:30	5 Litres	63	5	CTD Profile, Water eDNA	JH, MJ	Surface Primary
26	AA_ENV_15	21-Apr-2023	07:30	5 Litres	63	58	CTD Profile, Water eDNA	JH, MJ	Bottom Primary
27	AA_ENV_15	21-Apr-2023	07:52	5 Litres	63	5	CTD Profile, Water eDNA	JH, MJ	Surface Spare
28	AA_ENV_15	21-Apr-2023	07:52	5 Litres	63	58	CTD Profile, Water eDNA	JH, MJ	Bottom Spare
30	AA_ENV_12	21-Apr-2023	14:24	5 Litres	73	5	CTD Profile, Water eDNA	RH, MC	Surface Primary
31	AA_ENV_12	21-Apr-2023	14:24	5 Litres	73	68	CTD Profile, Water eDNA	RH, MC	Bottom Primary
32	AA_ENV_12	21-Apr-2023	14:45	5 Litres	72	5	CTD Profile, Water eDNA	RH, MC	Surface Spare
33	AA_ENV_12	21-Apr-2023	14:45	5 Litres	72	68	CTD Profile, Water eDNA	RH, MC	Bottom Spare
34	AA_ENV_21	22-Apr-2023	05:43	5 Litres	103	5	CTD Profile, Water eDNA	JH, MJ	Surface Primary
35	AA_ENV_21	22-Apr-2023	05:43	5 Litres	103	98	CTD Profile, Water eDNA	JH, MJ	Bottom Primary
36	AA_ENV_21	22-Apr-2023	06:00	5 Litres	103	5	CTD Profile, Water eDNA	JH, MJ	Surface Spare

APPENDIX B FIELD SAMPLING LOGS

WATER SAMPLING LOG SHEET (Deck)									FOR-ENV-0540
Job No:		Area:			Volume:				
Project:					Equipment:				
Client:					Vessel:				
Sample Number	Station Number	Date	Time	Load	Overall Station Depth (m)	Sample Depth (m)	Sample Analysis	Operator(s)	Comments
37	AA_ENV_21	22-Apr-2023	06:00	5 Litres	103	98	CTD Profile, Water eDNA	JH, MJ	Bottom Spare
38	AA_ENV_24	22-Apr-2023	10:28	5 Litres	65	5	CTD Profile, Water eDNA	RH, MC	Surface Primary
39	AA_ENV_24	22-Apr-2023	10:28	5 Litres	65	60	CTD Profile, Water eDNA	RH, MC	Bottom Primary
40	AA_ENV_24	22-Apr-2023	10:49	5 Litres	65	5	CTD Profile, Water eDNA	RH, MC	Surface Spare
41	AA_ENV_24	22-Apr-2023	10:49	5 Litres	65	60	CTD Profile, Water eDNA	RH, MC	Bottom Spare

APPENDIX C DATA ACQUISITION AND PROCESSING

APPENDIX C DATA ACQUISITION AND PROCESSING

C.1 Seabed Imagery Acquisition

Environmental seabed images were taken by means of a digital stills camera system camera system with a dedicated strobe and video lamp, mounted within a stainless-steel frame. The camera system was deployed from the vessel with footage viewed in real time, assisting in the control of the digital stills camera. This allowed for shot selection to capture sediment changes or features at the seafloor. Video footage was also acquired throughout transects and target investigations using a high definition video camera, for equipment specifications see Table B.1. An ultra-short base line (USBL) positioning beacon was attached to the camera frame.

During acquisition, a minimum of 38 seabed photographs and 11 minutes of footage were acquired at each station. This technique allowed the frame to move progressively along the seabed as the vessel traversed the work area on its thrusters or drifted. The images were captured remotely using the surface control unit and stored on the camera's internal memory card. Video footage was overlaid with time, position and depth, and recorded directly onto the onboard server/PC hard drive. On completion, photographs were downloaded onto a PC via a USB download cable and copied onto HDD. All HDDs were labelled with the relevant job details, write-protected and stored.

During acquisition, a total of 1753 photos were taken using the still camera system across 42 stations. Of these, 295 photos from Stations ENV36 to ENV42 were analysed. A total of 10 hours and 39 minutes of video footage was acquired across the array area, of which 1 hour 36 minutes from Stations ENV36 to ENV42 was analysed. A selection of seabed photographs is presented in Appendix D, whilst environmental deck and positioning logs are contained in Appendix B.

Main instrumental and acquisition details are as follows:

Table B.1 Camera Equipment Specifications

Equipment	HD Camera System	Stills Camera System	HD Camera System
Manufacturer	SubC Control Ltd.	Kongsberg/Simrad.	C-Tecnics Subsea Electronics
Model	1CamMKII	OE14-208	CT3022
Lens	Wide angle (26.3mm), f 3.8 ~ 38.0 mm (5/32 ~ 1 1/2 in.), 10x optical zoom and automatic or manual focus control	f 7.2 – 28.8 (35mm format equivalent to 38 – 140mm) 4x optical zoom and automatic or manual focus control	Sony E pZ 16-50mm f3.5-28.0, automatic or manual focus control
Pixels	12.0 M (Picture mode) 8.3 M (Video mode)	5.0 M	24.3 M
Video Resolution	1920 x 1080p	PAL 625 Line / 50 Hz PAL	PAL 625 Line / 50Hz PAL
Image Resolution (pixels)	4000 x 3000 (Picture mode) 3264 x 2448 (Video mode)	2592 x 1944	6000 x 4000
Field of View	47.8° horizontal (β) by 36.2° vertical (α)	48.4° horizontal (β) by 29.9° vertical (α)	90° (6.7mm) to 60° (13mm) diagonal in water
Video Overlay	EdgeDVR Inspection System (Digital Edge Subsea Ltd)		
Trigger	Remote from deck		
Height Control	USBL Beacon and Video footage		
Lighting	1 fixed forward facing strobe, 2 fixed LED lamps		
Scale bar	Green line lasers with 100mm separation between lines.		

Table unit definitions: M = megapixels, p = progressive scan, PAL = phase alternating line, Hz = Hertz

C.2 Benthic Sampling

Benthic macrofauna samples were recovered using an in-house constructed, modified, stainless-steel 0.1m² mini-Hamon grab. The mini-Hamon grab comprises a box shaped scoop which is mechanically driven in a 90° arc through the surface sediments to close against stainless-steel closure plate. The closure plate is lined by a rubberised gasket to retain the mixed sediments sample and has a viewing window allowing the operator to determine the fullness of sample. Tension of a trigger hook is released upon impact of the grab on the sea floor thereby allowing, on inhaul, the pivot arm to drive the scoop through the sediment. As the design of this grab disturbs the relative position of the sediments upon recovery, the samples are first decanted from the grab and homogenised prior to sub-sampling.

The chemical samples were recovered using an in-house constructed, modified, stainless-steel 0.1m² Day grab. The modified Day grab is routinely used on projects where water depths are less than 250m. The modification incorporated guides for the cables to prevent them becoming trapped during triggering. Low-slung pad feet when in contact with the seabed trigger the instrument. On retrieval (once triggered) the weight of the instrument is transferred along the warp wires, closing the grab's jaw. The recovered samples are fully enclosed to reduce the disturbance and can obtain up to 15 litres of well-preserved sample in most silts and sandy substrates.

The Day grab carried extra weights where appropriate to induce better penetration on impact and an extended bucket lip (to reduce sediment washout during retrieval). Storm feet and elastic straps were used to reduce the likelihood of the instrument pre-triggering in the water column during deployment.

On recovery, the sample can be processed directly through the large access doors or by emptying the contents into a plastic tray. Consequently, this means that relatively undisturbed samples can be collected directly from the grab where surficial sediments are required.

Grab sampling operational procedures were as follows:

The vessel's sampling area was pre-cleaned using a powerful deck fire-hose and seawater. Both the Day grab and the mini-Hamon grab were thoroughly washed down using pentane prior to deployment at every station to prevent hydrocarbon and DNA cross contamination. A 125m-length of 10mm, dry-core, galvanised-steel cable was used to lower the grabs to the seabed.

All containers were thoroughly washed with appropriate solvents and labelled externally prior to use. Biology samples were placed in 1-litre polypropylene screw-top and/or 5 litre buckets and provided with an additional internal waterproof label. Hydrocarbon samples and metal samples were placed in 1L amber glass jars with tin foil barriers, whilst the remaining samples (particle size) were placed in polyethylene double-lined zip-lock bags.

Where required in deeper waters, the grabs may be winched down to approximately 10-15m from the seabed prior to release to sea floor. Communication between the deck, bridge crew and the surveyors was conducted by means of VHF radio. When directly over the sampling station the grab was winched to the seabed and recovered so that the sample could be obtained and the apparatus prepared for the next deployment.

Positional fixes were taken for each grab sample immediately following the grab reaching the sea floor. The precise time that the grab reached the seabed was determined by observations of the tension on the winch cable.

On recovery of a sample, the grab would first be examined for acceptability following strict quality assurance criteria. In the following cases, a sample would be rejected and the instrument prepared for the next deployment:

1. Jammed sample closure due to entrapment of a large stone, shell or other objects allowing surface sediment washout.
2. Accidental premature opening of sampler on recovery, causing possible surface washout.
3. Half sample obtained where the grab has not struck a flat area of bottom, or not hit true, causing a side or half bite of sediment.
4. Disruption of the sample by obvious shaking or contamination (these can occur when a sample is badly handled or if the grab strikes the side of the vessel during operations).
5. The sample represents less than 40% of the grab's total capacity (*i.e.* less than 6 litres) or totally fills the grab.
6. Sample is an unacceptable distance from the target. (please state if an acceptable distance was agreed with the client representative)
7. The presence of exopolymeric substances, mucus coagulants and/or fauna that generate them *i.e.* Myxinidae.

Grab samples deemed acceptable were photographed and described prior to sub-sampling.

Surficial (<2cm depth) sediments were taken directly from the Day grab for chemical analysis. Two approximately 1L samples, one for chemical analysis and the other to act as a spare, were taken using a plastic scoop and placed into 1L amber glass jars. Additionally, a 40g sub-sample eDNA was taken from each of the chemical grab samples and homogenised and stored in a double-lined zip-lock bag.

Using the mini-Hamon grab sampler, two separate grab samples from each station were collected for infaunal macroinvertebrate identification and PSA. One PSA sub-sample of approximately 500g was taken from each grab using a plastic scoop and placed into plastic zip-lock bags. The remaining contents of each grab were washed into a clean plastic tray using seawater and then transferred to a 1mm mesh sieve. Finer sediment fractions were washed from the sample using an auto-sieve, which sprayed a low-powered seawater jet onto the underside of the sieve. The sieve residue was transferred to uniquely labelled sample jars using a scoop and/or funnel, making sure that none of the sample was lost or trapped in the sieve mesh. Sieved samples were immediately fixed with a known concentration of formaldehyde solution ('formalin', less than 20%). The formalin in the sample pots was subsequently diluted to a concentration of approximately 4%. One of the faunal samples (normally those identified as MFA) was worked up as a matter of course and the second retained as a spare (normally sample MFB). All physico-chemical samples were stored at less than -18°C prior to analysis, whilst faunal samples were stored at room temperature.

Across the 35 sampling stations, 78 single grab samples were retained for 108 deployments, with all retained samples taken within 35m of their target location. On average, retained samples were acquired 3.5m ($\pm 4.1\text{SD}$) from their target location. Unsuccessful sampling attempts were mainly due to low sediment retention of stones caught in the grab's jaw leading to sample washout. Environmental deck and positioning logs are presented in Appendix B.

Niskin bottles were mounted directly to the 10mm dry-core galvanised stainless-steel deployment cable along with a purse weight to maintain vertical transit and a messenger weight affixed to allow acquisition of the sample. A fix was taken immediately after release of the messenger and prior to recovery. The water samples were taken at selected depths identified as bottom and surface. The water sampler contents were then sampled prior to subsequent analyses of CTD profiles and eDNA.

C.3 Water Sampling

A Valeport Midas CTD+ multiparameter CTD was used to measure the characteristics of the seawater column, collecting data on depth, temperature, pH, conductivity, photosynthetic active radiation and dissolved oxygen and pressure in order to produce water profiles of the investigated area.

The probe was attached directly to the 11.4mm coaxial sonar cable along with a purse weight to maintain vertical transit. The offset of the A frame deployment from the vessel's centre of gravity was used to represent the probe's position. Positional fixes were taken immediately after deployment, at the greatest depth and at the end of the deployment. Readings were taken from the CTD at 2Hz approximately every 0.5ms. Pauses in deployment and recovery took place at the required water sampling depths to allow for water samples to be acquired. After recovery, recorded data were saved on the computer and backed up to the vessel server and removable hard drive.

Niskin bottles were mounted within the Rosette frame along with the water profiling probe. The probe was deployed in remote sampling mode with the probe programmed to electronically trigger bottle closure after a predetermined time period, calculated from winch speed and water depth. A temporal margin of error was added to ensure the bottles were in location prior to triggering. Positional fixes were predominantly taken from a USBL beacon mounted within the Rosette at the programmed times with a single fix taken per group of bottles triggered.

Water samples were taken at selected depths. On recovery of a water sample, the Niskin bottles would first be examined for acceptability following strict QA criteria. In the following cases, a water sample would be rejected, and the instrument prepared for the next deployment:

1. One or both ends have not released, and the sampler has failed to trigger.
2. One or both ends have failed to seal the sample and water has leaked out.
3. Disruption of the sample by obvious shaking or contamination.
4. Sample was taken from an unacceptable distance or depth from the target.

Samples for eDNA were filtered through a 0.2µm and 0.8µm filter in a plastic bag and then wrapped. All filters were stored at less than –18°C prior to analysis.

C.4 Imagery Processing

Seabed photos from Stations ENV36 to ENV42 were assessed using the Gardline developed imagery analysis program (CountEM). The program allows for individual fauna to be tagged and a sediment description to be assigned to each image. The software allows features to be selected within an image to provide an accurate figure of percentage coverage of each individual element (e.g. cobbles and boulders, sponge) based upon the proportion of pixels. CountEM can also measure the area of seabed and observed features primarily in pixels, though this can be converted to millimetres (mm) given a reference scale within the image, such as using two laser lines with a known separation. Further, laser scale lines were used to calculate an approximate area for each photo using methodologies developed from Wakefield and Genin (1987).

Gardline has developed an institution-level reference image catalogue of operational taxonomic units (OTUs) or morphospecies based on Howell *et al.* (2019). Where examples within the images were matched with a morphotype already included within the OTU database these have been given the suffix GLXXXX. To standardise image-based identification, nomenclature based on Horton *et al.* (2021) has been used within the project. *Indeterminabilis* (*indet.*) was used for a taxon that is unidentifiable below a certain taxonomic level due to image quality or lack of clarity in an image; while *stetit* (*stet.*) was used for taxon that are identifiable to a

certain taxonomic level with certainty but a decision has been made to not identify further or a lack of resources has led to no further identification.

Prior to beginning data analysis, all operators familiarised themselves with the proforma document and protocol noted in the SOW (Appendix A). Operators also familiarised themselves with the National Marine Biological Association Quality Control (NMBAQ) procedures.

Video data were first sub-divided into quality segments using the written instructions provided by the epibiont identification protocol (EIP) guidance document (The Big Picture Group, 2022), ranging from 'zero' to 'excellent'. Each segment was assigned a unique identifier by adding the suffix '_Q#', where # is the next contiguous number starting from 1 for each transect. Only segments with image quality of satisfactory or excellent were analysed further to identify habitat types. The video was then watched another time to identify the physical and biological characteristics of the seabed, with the coordinates and time of each habitat type observed recorded. Any changes in habitat type characteristics <5m were not classified as a separate habitat but the variations observed were noted in the habitat description within the proforma (Appendix G).

In addition, at 5-minute intervals 15 seconds of footage was assessed and the abundance of identifiable taxa was recorded using the semi quantitative SACFOR scale. In accordance with EIP guidance (The Big Picture Group, 2022), the lowest taxonomic level confidently achieved was used for identification. The process was completed for all segments within each transect across all seven camera transects. The unique identifier for each quality segment allowed for the faunal and sediment data to be recorded in the video proforma.

Video quality, presence of invasive non-native species, sediment composition, habitat classification and anthropogenic debris was assessed in accordance with the SOW (Appendix A). Habitat classifications was in accordance with the EUNIS and the MNCR developed by the JNCC.

Furthermore, the still images were collected to supplement and validate the video analysis. Prior to analysis the image quality of each still was assessed in accordance with EIP guidance (2022) which assigns quality categories 'zero' to 'excellent'. Only images classified as satisfactory or excellent were analysed further as poor or below did not allow for confident species identification. Each visible morphotype was identified to the lowest taxonomic level and enumerated in each photograph to record its presence. The exceptions were colonial taxa such as Porifera, Hydrozoa and Bryozoa groups which were quantified using percent coverage. Burrows were noted as present or absent as well as the occurrence of *Nephrops* burrows as per the EIP Guidance (The Big Picture Group, 2022). Minimum and maximum measurements were acquired of individuals taxa or features of conservation importance (e.g. burrows and sea pens). Where burrows and bioturbation were absent, the sediment was assumed to comprise sand as no further evidence could be provided to reduce the substrate to a lower particle size as detail would be beyond visible acuity. Conversely, where burrows or faunal tracks were observed with no *Nephrops* burrows present in the image, sediments were described as sandy mud as burrows are only possible where sediments have a cohesive nature provided by the presence of fines. Finally for an image that presented *Nephrops* burrow, sediments were classified as muds due to the *Nephrops* burrows penetrating deep into sediments.

Following QC, data were exported into an excel file used to summarise seabed imagery observations and allow for further analysis as applicable. A reference collection of taxa ID is presented in Appendix E.

In order to meet the requirements of 5% of the stills and video sections to undergo internal QC, a random 10% of the stills and a further 10% of the video segments were selected in excel using a random number generator. The random number generator was run for a second time on the QC'd dataset to create another list of stills and video sections to undergo further internal QC.

C.4.1 Multivariate analysis

The internal QC subset data were subjected to multivariate analysis using PRIMER v7 statistical package (Clarke & Warwick, 2006). By considering the data matrix as a whole and comparing each species observed within each image, multivariate analyses are able to highlight subtle trends or differences in the datasets. Multivariate analyses were computed from resemblance or similarity matrices. In the case of faunal abundance data these were constructed using the Bray-Curtis measure of similarity on normalised, non-transformed data. The RELATE test of PRIMER calculates the rank similarity of two specified data matrices, so, for instance, this test was used to provide an indication of the differences of the initial species identification and the internal QC on the structure of the dataset overall.

C.5 Habitat Analysis

C.5.1 Sea Pen and Burrowing Megafauna Communities

Clarifications on the identification of OSPAR description of the habitat were summarised in a report by the JNCC (2014b) to improve the definition and correct identification of this habitat. These clarifications suggest that burrowed areas of mud should be deemed to be a ‘sea pen and burrowing megafauna communities’ habitat regardless of the presence of sea pens, if multiple sightings of burrows and/or mounds attributable to the relevant species are observed. Furthermore, although the habitat occurs predominantly in fine mud sediments, examples of the habitat have been identified in areas of sandy muds where there is clear evidence of the relevant biological assemblages (burrowing megafauna and in some examples, sea pens). Consequently, habitats can be classed as ‘sea pen and burrowing megafauna communities’ regardless of the grain size composition of the sediment (JNCC, 2014b). The report (JNCC, 2014b) also recommends that the definition should extend further than the habitat classification biotope ‘sea-pens and burrowing megafauna in circalittoral fine mud’ (Connor *et al.*, 2004) since additional biotopes are also considered to be associated with the habitat.

The clarifications (JNCC, 2014b) advocate utilising seabed video imagery and/or photographs to confirm the presence of burrows and/or mounds and sea pens, where present. Whilst from seabed grab samples, identification would confirm associated fauna and PSA data a fine mud/sandy mud habitat. The density classifications as laid out by the MNCR SACFOR scale (JNCC, 2013) were used to quantify these defining features (see Table B. 2). The JNCC (2014b) clarification report specifies that multiple sightings of burrows and/or mounds attributable to relevant species together with sea pens, if present, should be classified as at least ‘frequent’ for their size on the SACFOR scale in order to be considered a ‘sea pen and burrowing megafauna communities’ habitat. However, it acknowledges the inherent difficulties of identifying species from burrow type alone using ever evolving guides, such as those cited by the ICES (2011) guide. Subsequently, the overall density of burrows themselves were assessed instead, in order to consider whether their density was a ‘prominent’ feature of the sediment surface and potentially indicative of a sub-surface complex gallery burrow system.

Table B. 2 SACFOR Abundance Scale

Density	Size of Individuals			
	<1cm	1-3cm	3-15cm	>15cm
$\geq 10000 \text{ m}^{-2}$	S	S	S	S
$\geq 1000 \text{ m}^{-2}$ to $< 10000 \text{ m}^{-2}$	A	S	S	S
$\geq 100 \text{ m}^{-2}$ to $< 1000 \text{ m}^{-2}$	C	A	S	S
$\geq 10 \text{ m}^{-2}$ to $< 100 \text{ m}^{-2}$	F	C	A	S
$\geq 1 \text{ m}^{-2}$ to $< 10 \text{ m}^{-2}$	O	F	C	A
$\geq 0.1 \text{ m}^{-2}$ to $< 1 \text{ m}^{-2}$	R	O	F	C
$\geq 0.01 \text{ m}^{-2}$ to $< 0.1 \text{ m}^{-2}$	R	R	O	F
$\geq 0.001 \text{ m}^{-2}$ to $< 0.01 \text{ m}^{-2}$	R	R	R	O
$< 0.001 \text{ m}^{-2}$	R	R	R	R

S= Superabundant, A = Abundant, C = Common, F = Frequent, O = Occasional and R = Rare. Table amended from: JNCC (2013).

For sedentary species attached to the substratum, percentage cover should be used in preference to the density scale whenever possible.

C.5.2 EUNIS Habitat Classification

Habitat classification is used to identify different habitats and biotopes based on the biotic and abiotic features of the seabed. Habitat and biotope classifications were conducted on the available survey data, adhering to protocols within the EUNIS. The system was developed between 1996 and 2001 by the European Environment Agency in collaboration with European experts. Table B.3 gives examples of the five EUNIS levels used to describe the marine environments.

Table B.3 Example EUNIS Habitat Classification Levels

Level	Detail Covered (EUNIS code)
1. Environment	Marine benthic habitats (M)
2. Broad habitats	Circalittoral biogenic habitat (MC2)
3. Main habitats	Atlantic circalittoral biogenic habitat (MC22)
4. Biotope complexes	Worm reefs in the Atlantic circalittoral zone (MC221)
5. Biotopes	<i>Sabellaria spinulosa</i> on stable Atlantic circalittoral mixed sediment (MC2211)

Development of the EUNIS classification comes from both a top-down and a bottom-up approach. The first division is based on differentiating between major biological zones related to depth (littoral down to abyssal) and differentiation of substrate type (e.g. rock, sand, gravel). These high-level divisions can be further subdivided based on the main biogeographical regions of Europe's seas (e.g. Arctic, Baltic, Atlantic) with these regional splits being based on a combination of salinity and temperature. Such broad-scale differences in habitat character are readily understood by non-specialists and provide classification types that are easily mapped. However, they also have ecological relevance as they reflect major changes in habitat character upon which species distribution depends (Connor *et al.*, 2004).

Bottom-up classification differentiates between places with different species communities. Relative species composition, diversity and abundance vary from place to place and are dependent both on environmental characteristics and upon interactions between species. Surveyed sites with similar environmental characteristics, such as sediment type and depth, show certain levels of similarity in their species communities.

C.6 Particle Size Analysis

Particle size analysis was carried out by Thomson Environmental Consultants Limited in accordance with NMBAQC methods for diamictons (Mason, 2016).

No dispersants were used and the sediment was not treated to remove carbonates. The range of sieve sizes, together with their Wentworth classifications (1922), is given in Table B.4.

The results, given in Appendix G, present particle size distributions in terms of mean phi, fraction percentages (i.e. gravel, sand and fines), sorting (mixture of sediment sizes) and skewness (weighting of sediment fractions above and below the mean sediment size; Folk & Ward, 1957). These indices are described below:

1. Graphic Mean - a measure of average particle size in phi units (-log2(diamm); Folk & Ward, 1957).

$$M_z = \frac{\phi 16 + \phi 84 + \phi 50}{3}$$

where M_z = The graphic mean particle size in phi

ϕ = the phi size of the n^{th} percentile of the sample

1. Sorting – the inclusive graphic standard deviation of the sample is a measure of the degree of sorting. Sorting classifications are presented in phi units (-log2(diamm), Folk & Ward, 1957).

$$\sigma_1 = \frac{\phi 84 - \phi 16}{4} + \frac{\phi 95 - \phi 5}{6.6}$$

where σ_1 = the inclusive graphic standard deviation

2. Inclusive Graphic Skewness – the degree of asymmetry of a frequency or cumulative curve, Skewness classification are presented Table B.6.

$$S = \frac{\phi 16 + \phi 84 - 2(\phi 50)}{2(\phi 84 - \phi 16)} + \frac{\phi 5 + \phi 95 - 2(\phi 50)}{2(\phi 95 - \phi 5)}$$

where S = the skewness of the sample

2. Graphic Kurtosis – The degree of peakness or departure from a ‘normal’ frequency or cumulative curve. Kurtosis classifications are presented in Table B.7.

$$K = \frac{\phi 95 - \phi 5}{2.44(\phi 75 - \phi 25)}$$

where K = Kurtosis

The sediment samples were additionally classified using the modified Folk triangle classification and the EUNIS classification (Figure B.1), with results presented in Appendix G. These classifications use the sand:mud ratio and the percentage of gravel (Folk, 1954; Parry, 2019).

Table B.4 Phi and Sieve Aperture with Wentworth Classifications

Aperture in microns	Aperture in Phi Unit	Sediment Description	
≥16000	≤-4	Pebble	GRAVEL
<16000 to 11200	>-4 to -3.5		
<11200 to 8000	>-3.5 to -3		
<8000 to 5600	>-3 to -2.5		
<5600 to 4000	>-2.5 to -2		
<4000 to 2800	>-2 to -1.5		
<2800 to 2000	>-1.5 to -1		
<2000 to 1400	>-1 to -0.5		
<1400 to 1000	>-0.5 to 0		
<1000 to 710	>0 to 0.5		
<710 to 500	>0.5 to 1	Coarse Sand	SAND
<500 to 355	>1 to 1.5		
<355 to 250	>1.5 to 2		
<250 to 180	>2 to 2.5		
<180 to 125	>2.5 to 3		
<125 to 90	>3 to 3.5	Very Fine Sand	FINES
<90 to 63	>3.5 to 4		
<63 to 44	>4 to 4.5		
<44 to 31.5	>4.5 to 5		
<31.5 to 22	>5 to 5.5		
<22 to 15.6	>5.5 to 6	Medium Silt	FINES
<15.6 to 11	>6 to 6.5		
<11 to 7.8	>6.5 to 7		
<7.8 to 5.5	>7 to 7.5		
<5.5 to 3.9	>7.5 to 8		
<3.9 to 2.8	>8 to 8.5	Clay	FINES
<2.8 to 2	>8.5 to 9		
<2 to 1.4	>9 to 9.5		
<1.4 to 1	>9.5 to 10		
<1	>10		

Table B.5 Sorting Classifications

Sorting Coefficient (Graphical Standard Deviation)	Sorting Classifications
0 < 0.35	Very well sorted
0.35 < 0.50	Well sorted
0.50 < 0.71	Moderately well sorted
0.71 < 1.00	Moderately sorted
1.00 < 2.00	Poorly sorted
2.00 < 4.00	Very poorly sorted
4.00	Extremely poorly sorted

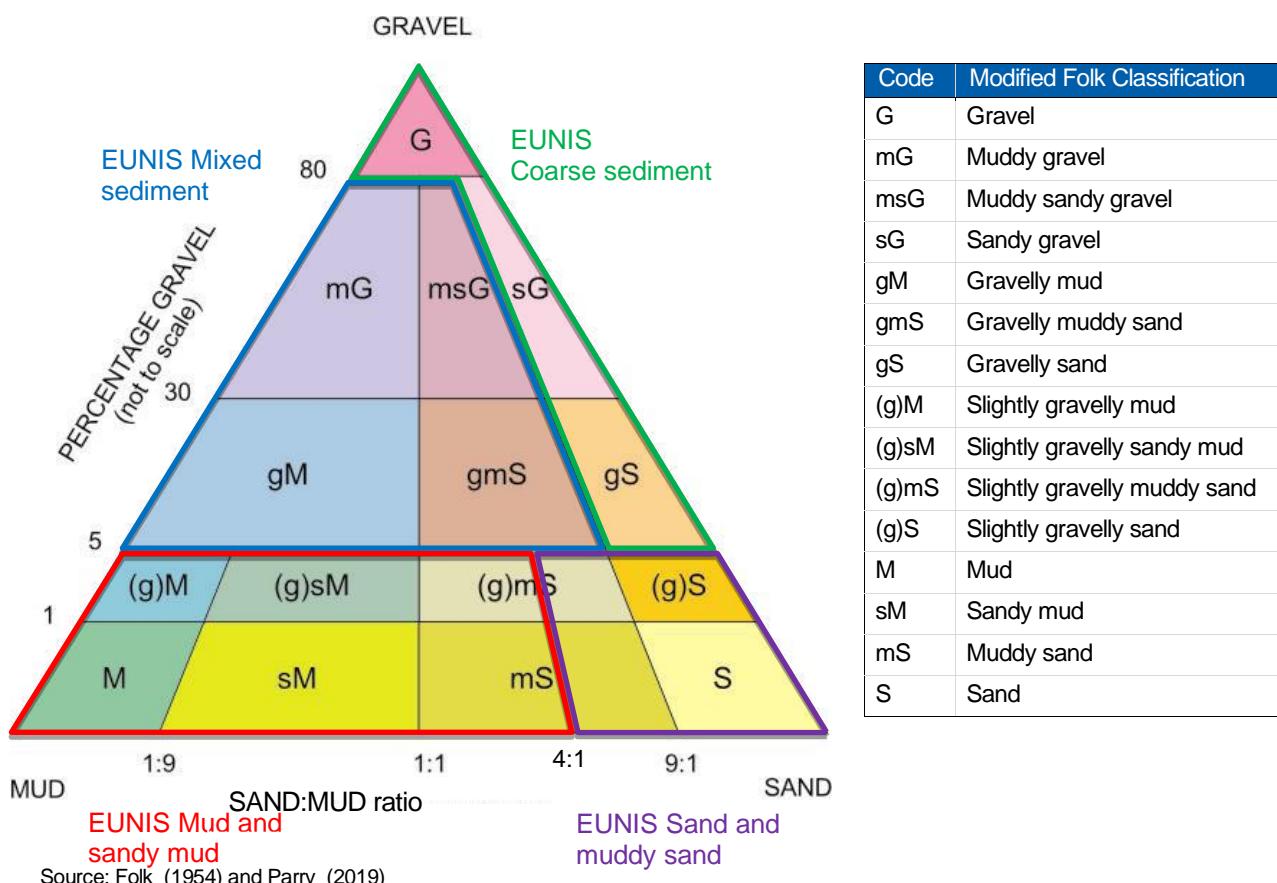
Table B.6 Skewness Classification

Skewness Coefficient	Mathematical Skewness	Graphical Skewness
1.00 > 0.30	Strongly Positive	Strongly fine skewed
0.30 > 0.10	Positive	Fine skewed
0.10 > -0.10	Near Symmetrical	Symmetrical
-0.10 > -0.30	Negative	Coarse skewed
-0.30 > -1.00	Strongly Negative	Strongly coarse skewed

Table B.7 Kurtosis Classification

Kurtosis Coefficient	Kurtosis Classification	Graphical meaning
≤ 0.67	Very Platykurtic	Flat-peaked; the ends are better sorted than the centre
$0.67 < 0.90$	Platykurtic	
$0.90 < 1.11$	Mesokurtic	Normal; bell shaped curve
$1.11 < 1.50$	Leptokurtic	
$1.50 < 3.00$	Very Leptokurtic	Curves are excessively peaked; the centre is better sorted than the ends
≥ 3.00	Extremely Leptokurtic	

Figure B.1 Modified Folk Classification and EUNIS Sediment Classes



APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV01
Fix number: 154 **E:** 530016 **N:** 6454654 **Depth (m):** 56
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna

Station: ENV01
Fix number: 154 **E:** 530016 **N:** 6454654 **Depth (m):** 56
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna



Station: ENV02
Fix number: 185 **E:** 521544 **N:** 6465747 **Depth (m):** 60
Retention: MFB

Sediment Description:
Coarse sand with gravel and shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV02
Fix number: 185 **E:** 521544 **N:** 6465747 **Depth (m):** 60
Retention: MFB

Sediment Description:
Coarse sand with gravel and shell fragments

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV03
Fix number: 169 **E:** 523392 **N:** 6459875 **Depth (m):** 58
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (Bivalvia)

Station: ENV03
Fix number: 169 **E:** 523392 **N:** 6459875 **Depth (m):** 58
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (Bivalvia)



Station: ENV04
Fix number: 170 **E:** 520936 **N:** 6459461 **Depth (m):** 56
Retention: MFA

Sediment Description:
Coarse sand with gravel and shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV04
Fix number: 170 **E:** 520936 **N:** 6459461 **Depth (m):** 56
Retention: MFA

Sediment Description:
Coarse sand with gravel and shell fragments

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV05
Fix number: 211 **E:** 535648 **N:** 6440722 **Depth (m):** 64
Retention: MFB

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta), Molluca (Scaphopoda)

Station: ENV05
Fix number: 211 **E:** 535648 **N:** 6440722 **Depth (m):** 64
Retention: MFB

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta), Molluca (Scaphopoda)



Station: ENV06
Fix number: 193 **E:** 535807 **N:** 6445823 **Depth (m):** 64
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna

Station: ENV06
Fix number: 193 **E:** 535807 **N:** 6445823 **Depth (m):** 64
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV07
Fix number: 143 **E:** 528486 **N:** 6448020 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with cobbles, gravel and shells

Faunal Description:
Mollusca (*Arctica islandica*)

Station: ENV07
Fix number: 143 **E:** 528486 **N:** 6448020 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with cobbles, gravel and shells

Faunal Description:
Mollusca (*Arctica islandica*)



Station: ENV08
Fix number: 157 **E:** 532734 **N:** 6456074 **Depth (m):** 59
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Mollusca (Scaphopoda)

Station: ENV08
Fix number: 157 **E:** 532734 **N:** 6456074 **Depth (m):** 59
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Mollusca (Scaphopoda)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV09
Fix number: 132 **E:** 526073 **N:** 6443052 **Depth (m):** 58
Retention: MFA

Sediment Description:
Fine to medium sand with occasional shell fragments

Faunal Description:
Arthropoda

Station: ENV09
Fix number: 132 **E:** 526073 **N:** 6443052 **Depth (m):** 58
Retention: MFA

Sediment Description:
Fine to medium sand with occasional shell fragments

Faunal Description:
Arthropoda



Station: ENV10
Fix number: 200 **E:** 530892 **N:** 6442122 **Depth (m):** 63
Retention: MFB

Sediment Description:
Coarse sand with gravel and shells

Faunal Description:
Annelida (Polychaeta), Mollusca (Bivalvia)

Station: ENV10
Fix number: 200 **E:** 530892 **N:** 6442122 **Depth (m):** 63
Retention: MFB

Sediment Description:
Coarse sand with gravel and shells

Faunal Description:
Annelida (Polychaeta), Mollusca (Bivalvia)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV11
Fix number: 159 **E:** 532530 **N:** 6458658 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna

No sieve photo acquired

Station: ENV11
Fix number: 160 **E:** 532532 **N:** 6458658 **Depth (m):** 55
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna

No sieve photo acquired



Station: ENV12
Fix number: 205 **E:** 531952 **N:** 6433903 **Depth (m):** 71
Retention: MFB

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
No visible fauna

Station: ENV12
Fix number: 205 **E:** 531952 **N:** 6433903 **Depth (m):** 71
Retention: MFB

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
No visible fauna

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV13
Fix number: 165 **E:** 526675 **N:** 6463794 **Depth (m):** 51
Retention: MFB

Sediment Description:
Coarse sand with cobbles, gravel and shells

Faunal Description:
Annelida (Polychaeta)

Station: ENV13
Fix number: 165 **E:** 526675 **N:** 6463794 **Depth (m):** 51
Retention: MFB

Sediment Description:
Coarse sand with cobbles, gravel and shells

Faunal Description:
Annelida (Polychaeta)



Station: ENV14
Fix number: 178 **E:** 519355 **N:** 6467399 **Depth (m):** 58
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Mollusca (Scaphopoda)

Station: ENV14
Fix number: 178 **E:** 519355 **N:** 6467399 **Depth (m):** 58
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Mollusca (Scaphopoda)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV15
Fix number: 196 **E:** 533432 **N:** 6444277 **Depth (m):** 65
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (*Arctica islandica*, Bivalvia, Scaphopoda)

Station: ENV15
Fix number: 196 **E:** 533432 **N:** 6444277 **Depth (m):** 65
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (*Arctica islandica*, Bivalvia, Scaphopoda)



Station: ENV16
Fix number: 215 **E:** 539557 **N:** 6444754 **Depth (m):** 75
Retention: MFB

Sediment Description:
Fine sand with gravel

Faunal Description:
Annelida (Polychaeta), Echinodermata (Ophiuroidea)

Station: ENV16
Fix number: 215 **E:** 539557 **N:** 6444754 **Depth (m):** 75
Retention: MFB

Sediment Description:
Fine sand with gravel

Faunal Description:
Annelida (Polychaeta), Echinodermata (Ophiuroidea)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV17
Fix number: 136 **E:** 528667 **N:** 6443788 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with cobbles, gravel and shells

Faunal Description:
Annelida (Serpulidae), Cnidaria (Hydrozoa)

Station: ENV17
Fix number: 136 **E:** 528667 **N:** 6443788 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with cobbles, gravel and shells

Faunal Description:
Annelida (Serpulidae), Cnidaria (Hydrozoa)



Station: ENV18
Fix number: 162 **E:** 528853 **N:** 6458617 **Depth (m):** 55
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida, Echinodermata, Mollusca (Scaphopoda)

Station: ENV18
Fix number: 162 **E:** 528853 **N:** 6458617 **Depth (m):** 55
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida, Echinodermata, Mollusca (Scaphopoda)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV19
Fix number: 121 **E:** 534676 **N:** 6432896 **Depth (m):** 70
Retention: MFB

Sediment Description:
Fine to medium sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta), Arthropoda (Brachyura)

Station: ENV19
Fix number: 121 **E:** 534676 **N:** 6432896 **Depth (m):** 70
Retention: MFB

Sediment Description:
Fine to medium sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta), Arthropoda (Brachyura)



Station: ENV20
Fix number: 150 **E:** 526160 **N:** 6454747 **Depth (m):** 54
Retention: No Sample

Sediment Description:
No Sample

Faunal Description:
No visible fauna

No sieve photo acquired

Station: ENV20
Fix number: 152 **E:** 526157 **N:** 6454745 **Depth (m):** 54
Retention: No Sample

Sediment Description:
No Sample

Faunal Description:
No visible fauna

No sieve photo acquired

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV21
Fix number: 216 **E:** 541069 **N:** 6447876 **Depth (m):** 103
Retention: MFA

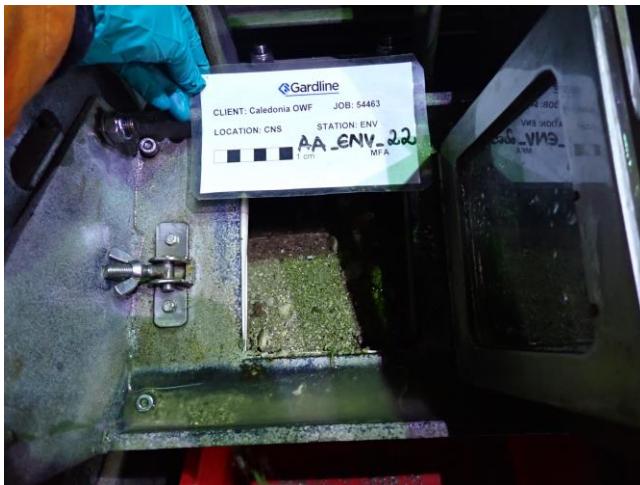
Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV21
Fix number: 216 **E:** 541069 **N:** 6447876 **Depth (m):** 103
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)



Station: ENV22
Fix number: 122 **E:** 533804 **N:** 6437587 **Depth (m):** 65
Retention: MFA

Sediment Description:
Coarse sand with gravel and shells

Faunal Description:
Annelida (Polychaeta)

Station: ENV22
Fix number: 122 **E:** 533804 **N:** 6437587 **Depth (m):** 65
Retention: MFA

Sediment Description:
Coarse sand with gravel and shells

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV23
Fix number: 147 **E:** 526338 **N:** 6451077 **Depth (m):** 54
Retention: MFB

Sediment Description:
Fine to medium sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV23
Fix number: 147 **E:** 526338 **N:** 6451077 **Depth (m):** 54
Retention: MFB

Sediment Description:
Fine to medium sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)



Station: ENV24
Fix number: 220 **E:** 536667 **N:** 6453670 **Depth (m):** 66
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV24
Fix number: 220 **E:** 536667 **N:** 6453670 **Depth (m):** 66
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV25
Fix number: 212 **E:** 537271 **N:** 6443697 **Depth (m):** 69
Retention: MFA

Sediment Description:
Fine sand with gravel

Faunal Description:
Arthropoda (Brachyura), Annelida (Polychaeta)

Station: ENV25
Fix number: 212 **E:** 537271 **N:** 6443697 **Depth (m):** 69
Retention: MFA

Sediment Description:
Fine sand with gravel

Faunal Description:
Arthropoda (Brachyura), Annelida (Polychaeta)



Station: ENV26
Fix number: 201 **E:** 532586 **N:** 6439724 **Depth (m):** 70
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV26
Fix number: 201 **E:** 532586 **N:** 6439724 **Depth (m):** 70
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV27
Fix number: 191 **E:** 535302 **N:** 6448609 **Depth (m):** 61
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Mollusca (*Arctica islandica*)

Station: ENV27
Fix number: 191 **E:** 535302 **N:** 6448609 **Depth (m):** 61
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Mollusca (*Arctica islandica*)



Station: ENV28
Fix number: 194 **E:** 531131 **N:** 6448650 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (Scaphopoda)

Station: ENV28
Fix number: 194 **E:** 531131 **N:** 6448650 **Depth (m):** 55
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (Scaphopoda)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV29
Fix number: 188 **E:** 537960 **N:** 6451158 **Depth (m):** 65
Retention: MFA

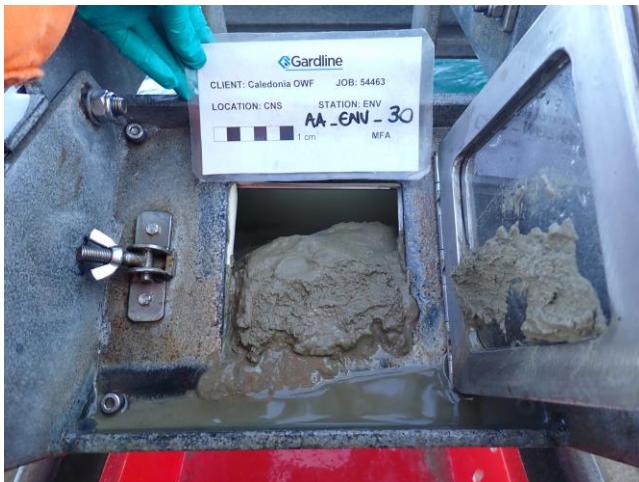
Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (Bivalvia)

Station: ENV29
Fix number: 188 **E:** 537960 **N:** 6451158 **Depth (m):** 65
Retention: MFA

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta), Mollusca (Bivalvia)



Station: ENV30
Fix number: 207 **E:** 535608 **N:** 6436085 **Depth (m):** 79
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta), Echinodermata (Ophiuroidea)

Station: ENV30
Fix number: 207 **E:** 535608 **N:** 6436085 **Depth (m):** 79
Retention: MFA

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
Annelida (Polychaeta), Echinodermata (Ophiuroidea)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV31
Fix number: 167 **E:** 525975 **N:** 6460724 **Depth (m):** 54
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna

Station: ENV31
Fix number: 167 **E:** 525975 **N:** 6460724 **Depth (m):** 54
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
No visible fauna



Station: ENV32
Fix number: 187 **E:** 532373 **N:** 6452533 **Depth (m):** 59
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV32
Fix number: 187 **E:** 532373 **N:** 6452533 **Depth (m):** 59
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV33
Fix number: 175 **E:** 523255 **N:** 6467418 **Depth (m):** 56
Retention: MFB

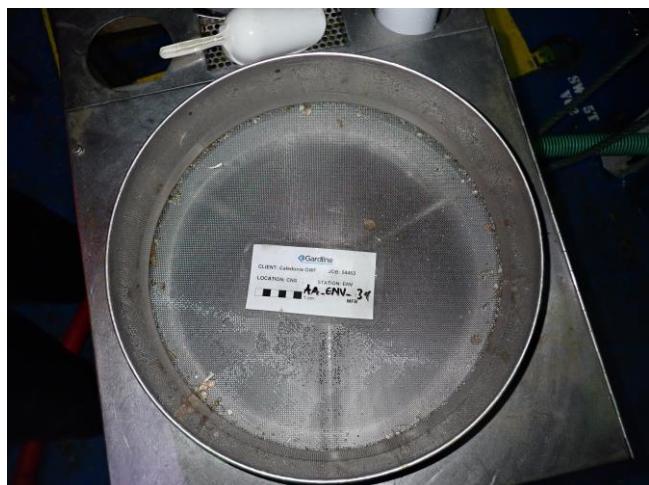
Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaete), Mollusca (Bivalvia)

Station: ENV33
Fix number: 175 **E:** 523255 **N:** 6467418 **Depth (m):** 56
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaete), Mollusca (Bivalvia)



Station: ENV34
Fix number: 130 **E:** 528679 **N:** 6440177 **Depth (m):** 68
Retention: MFB

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
No visible fauna

Station: ENV34
Fix number: 130 **E:** 528679 **N:** 6440177 **Depth (m):** 68
Retention: MFB

Sediment Description:
Fine sand with occasional shell fragments

Faunal Description:
No visible fauna

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV35
Fix number: 173 **E:** 521411 **N:** 6462905 **Depth (m):** 54
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta)

Station: ENV35
Fix number: 173 **E:** 521411 **N:** 6462905 **Depth (m):** 54
Retention: MFB

Sediment Description:
Coarse sand with shell fragments

Faunal Description:
Annelida (Polychaeta)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV36
Fix number: 3373 **E:** 519412 **N:** 6465747 **Depth (m):** 57

Sediment Description:
Soft rippled sediment

Faunal Description:
Animalia tube

Station: ENV36
Fix number: 3374 **E:** 519412 **N:** 6465746 **Depth (m):** 57

Sediment Description:
Soft rippled sediment

Faunal Description:
Animalia tube



Station: ENV36
Fix number: 3387 **E:** 519422 **N:** 6465713 **Depth (m):** 57

Sediment Description:
Soft rippled sediment

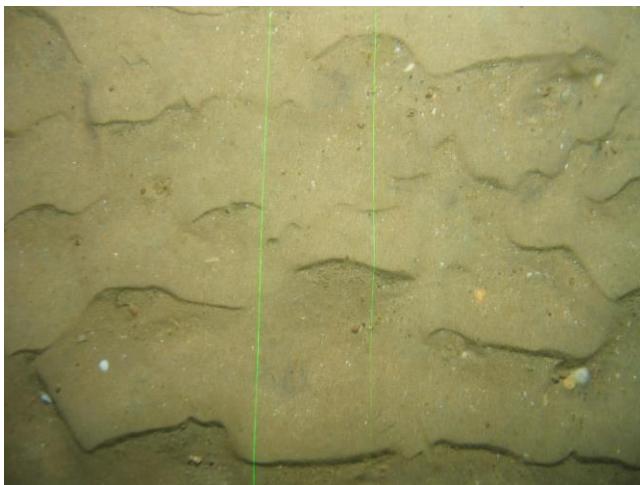
Faunal Description:
Animalia tube, Mollusca (Scaphopoda stet.)

Station: ENV36
Fix number: 3402 **E:** 519434 **N:** 6465682 **Depth (m):** 57

Sediment Description:
Soft rippled sediment

Faunal Description:
No visible fauna

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV37
Fix number: 3075 **E:** 527222 **N:** 6462112 **Depth (m):** 50

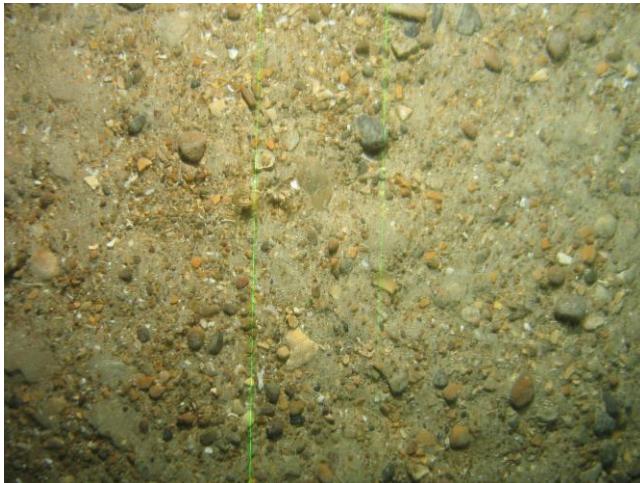
Sediment Description:
Soft rippled sediment

Faunal Description:
No visible fauna

Station: ENV37
Fix number: 3093 **E:** 527224 **N:** 6462138 **Depth (m):** 50

Sediment Description:
Scattered cobbles with soft sediment and shell fragments

Faunal Description:
Annelida (*Lanice conchilega*, *Serpulidae stet.*), Chordata (*Microstomus kitt*)



Station: ENV37
Fix number: 3104 **E:** 527217 **N:** 6462164 **Depth (m):** 50

Sediment Description:
Scattered cobbles with soft sediment and shell fragments

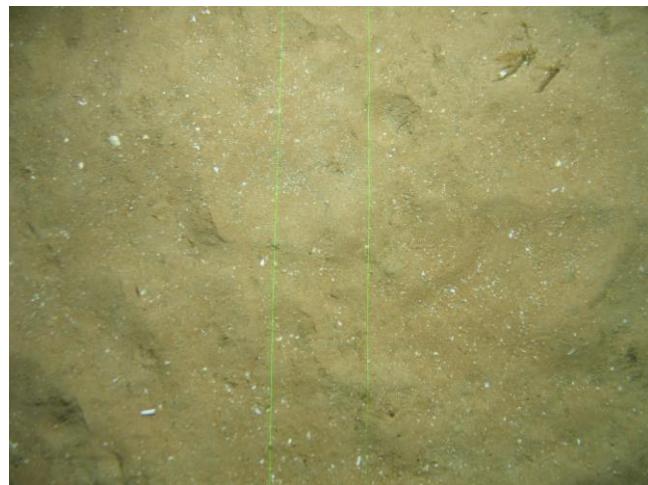
Faunal Description:
No visible fauna

Station: ENV37
Fix number: 3111 **E:** 527220 **N:** 6462179 **Depth (m):** 50

Sediment Description:
Soft rippled sediment

Faunal Description:
No visible fauna

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV38
Fix number: 2785 **E:** 528833 **N:** 6454111 **Depth (m):** 54

Sediment Description:
Soft rippled sediment

Faunal Description:
No visible fauna

Station: ENV38
Fix number: 2796 **E:** 528854 **N:** 6454141 **Depth (m):** 54

Sediment Description:
Soft rippled sediment with faunal tracks

Faunal Description:
Animalia tube



Station: ENV38
Fix number: 2814 **E:** 528875 **N:** 6454179 **Depth (m):** 54

Sediment Description:
Soft rippled sediment

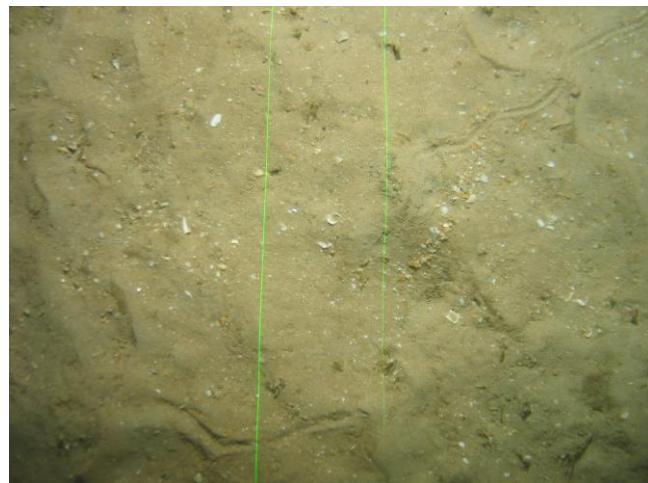
Faunal Description:
Animalia tube

Station: ENV38
Fix number: 2820 **E:** 528885 **N:** 6454190 **Depth (m):** 54

Sediment Description:
Soft rippled sediment

Faunal Description:
No visible fauna

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV39
Fix number: 2872 **E:** 534176 **N:** 6455090 **Depth (m):** 60

Sediment Description:
Soft rippled sediment with faunal tracks and shell fragments.

Faunal Description:
Animalia tube, Mollusca (*Arctica islandica* siphon)

Station: ENV39
Fix number: 2886 **E:** 534190 **N:** 6455121 **Depth (m):** 62

Sediment Description:
Soft rippled sediment with faunal tracks and shell fragments.

Faunal Description:
Foraminifera



Station: ENV39
Fix number: 2893 **E:** 534204 **N:** 6455133 **Depth (m):** 62

Sediment Description:
Soft sediment with shell fragments.

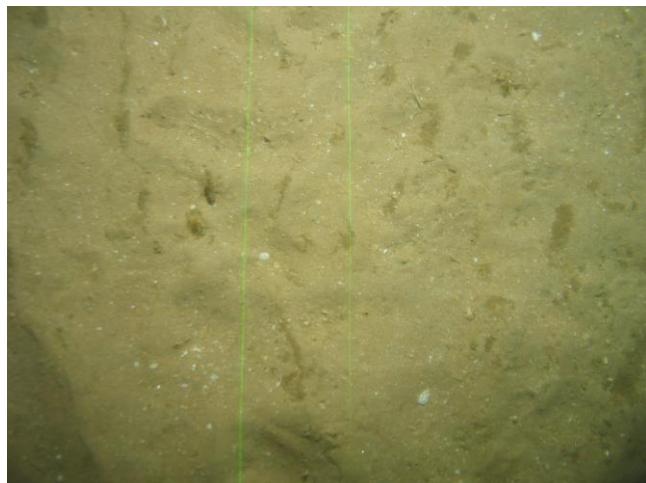
Faunal Description:
Annelida (Serpulidae *stet.*), Arthropoda (Paguroidea *stet.*),
Bryozoa (*Flustridae* *indet.*), Echinodermata (*Asterias rubens*,
Ophiuridae *stet.*), Mollusca (*Aequipecten opercularis*)

Station: ENV39
Fix number: 2900 **E:** 534219 **N:** 6455144 **Depth (m):** 62

Sediment Description:
Soft rippled sediment with faunal tracks

Faunal Description:
Arthropoda (Paguroidea *stet.*)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV40
Fix number: 4126 **E:** 537729 **N:** 6449519 **Depth (m):** 57

Sediment Description:
Soft rippled sediment with faunal tracks

Faunal Description:
No visible fauna

Station: ENV40
Fix number: 4144 **E:** 537756 **N:** 6449553 **Depth (m):** 57

Sediment Description:
Soft sediment with shell fragments

Faunal Description:
Animalia tube, Annelida (*Hyalinoecia tubicola*)



Station: ENV40
Fix number: 4149 **E:** 537761 **N:** 6449569 **Depth (m):** 57

Sediment Description:
Soft sediment with shell fragments and gravel patches

Faunal Description:
No visible fauna

Station: ENV40
Fix number: 4154 **E:** 537772 **N:** 6449583 **Depth (m):** 57

Sediment Description:
Soft sediment with gravel and shell fragments

Faunal Description:
Annelida (Serpulidae *stet.*), Bryozoa (Flustridae *indet.*)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV41
Fix number: 2622 **E:** 529401 **N:** 6445505 **Depth (m):** 52

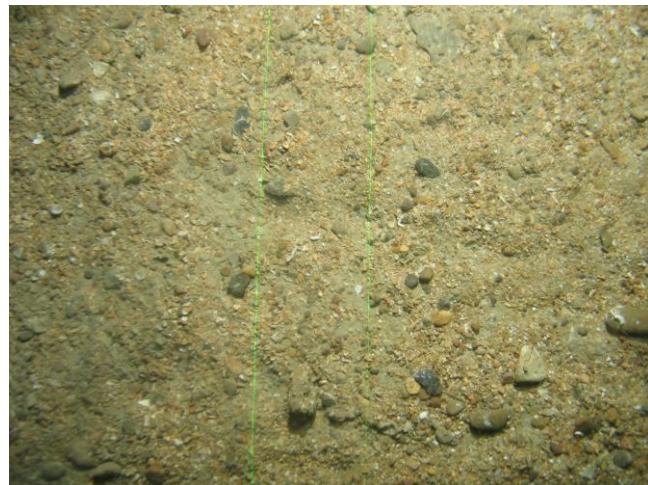
Sediment Description:
Soft sediment with shell fragmetns and faunal tracks

Faunal Description:
No visible fauna

Station: ENV41
Fix number: 2639 **E:** 529439 **N:** 6445491 **Depth (m):** 52

Sediment Description:
Soft sediment with gravel and shell fragments

Faunal Description:
Annelida (*Hyalinoecia tubicola*, *Serpulidae stet.*)



Station: ENV41
Fix number: 2650 **E:** 529456 **N:** 6445480 **Depth (m):** 52

Sediment Description:
Scattered cobbles with soft sediment, gravel and shell fragments

Faunal Description:
Annelida (*Serpulidae stet.*), Chordata (*Callionymus lyra*)

Station: ENV41
Fix number: 2661 **E:** 529482 **N:** 6445464 **Depth (m):** 52

Sediment Description:
Mixed sediment with sand, gravel and shell fragments

Faunal Description:
Annelida (*Serpulidae stet.*)

APPENDIX D SAMPLING AND SEABED PHOTOGRAPHS



Station: ENV42
Fix number: 3911 **E:** 536546 **N:** 6439479 **Depth (m):** 64

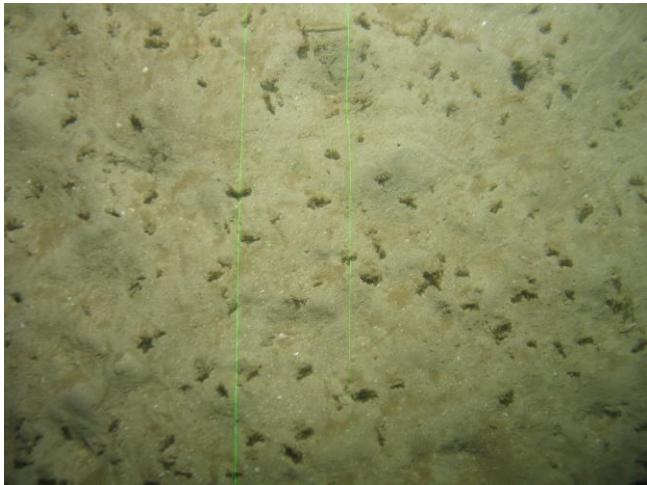
Sediment Description:
Soft sediment

Faunal Description:
Mollusca - (*Arctica islandica* siphon, Scaphopoda stet.)

Station: ENV42
Fix number: 3921 **E:** 536578 **N:** 6439484 **Depth (m):** 64

Sediment Description:
Soft sediment

Faunal Description:
Cnidaria (Pennatuloidae stet.)



Station: ENV42
Fix number: 3935 **E:** 536612 **N:** 6439490 **Depth (m):** 64

Sediment Description:
Soft sediment with faunal tracks

Faunal Description:
Anomalia tube

Station: ENV42
Fix number: 3938 **E:** 536620 **N:** 6439494 **Depth (m):** 64

Sediment Description:
Soft sediment

Faunal Description:
Chordata (Actinopterygii indet. GL0001), Mollusca (*Arctica islandica* siphon)

APPENDIX E FAUNAL OBSERVATION SUMMARY

APPENDIX E FAUNAL OBSERVATION SUMMARY

The faunal observation summary can be found in the attached Excel documents titled:
54463 Caledonia OWF Phase 2 Survey - Array Area Imagery SACFOR Results (Rev0 07-Jul-2023).xlsx

[Click here to show/hide the attachment pane.](#)

APPENDIX F FAUNAL CATALOGUE

APPENDIX F FAUNAL CATALOGUE



1. Annelida - Serpulidae stet.

White annelid tubes encrusting on hard substrate.

Analysed using percentage cover.



2. Bryozoa - *Alcyonidium diaphanum*

Long, fleshy, tube-like structure attaching to the sediment at one end. Colouration is similar to surrounding sediment.

Analysed using percentage cover.



3. Bryozoa - *Flustridae indet.*

Consists of branching flat fronds and is sometimes mistaken for a seaweed. Similar colouration to the surrounding sediment.

Analysed using percentage cover.



4. Cnidaria - *Alcyonium digitatum*

Soft coral with a thick fleshy lobes with a fuzzy appearance, irregular in shape and orange in colour. Can have pink or white colouration.

Analysed using percentage cover.

APPENDIX F FAUNAL CATALOGUE



5. Cnidaria - *Nemertesia antennina*

Colonial hydroid. Stiff stems which have a feather-like appearance.

Analysed using percentage cover.



6. Cnidaria - *Sertulariidae indet. 001*

Colouration similar to the sediment, numerous unequal branches off the main stem.

Analysed using percentage cover.



7. Cnidaria - *Sertulariidae indet. 002*

Colouration similar to the sediment, numerous unequal branches off the main stem. Bushy in appearance.

Analysed using percentage cover.



8. Faunal turf

Unidentified faunal turf.

Analysed using percentage cover.

APPENDIX F FAUNAL CATALOGUE



9. Foraminifera

Clusters of small holes/burrows in sediment.

Analysed using percentage cover.



10. Porifera *indet.* GL0002

White encrusting sponge on a hard substrate.

Analysed using percentage cover.



11. Porifera *indet.* GL0003

Orange sponge encrusting on a hard surface, unable to identify exact species.

Analysed using percentage cover.



12. Animalia tube

Unidentifiable animal tube protruding from the sediment.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



13. Annelida - *Hyalinoecia tubicola*

Long slim tube, resembles a straw. Colour varies from clear to yellow or white. Unlikely to see the worm within but can occasionally see tentacles extended from one end.

Individuals were counted.



14. Annelida - *Lanice conchilega*

A species of burrowing marine polychaete worm. It builds a characteristic tube which projects from the seabed, consisting of cemented sand grains and shell fragments with a fringe at the top.

Individuals were counted.



15. Arthropoda - *Cirripedia stet.*

Small white barnacle on a hard substrate with white ridges vertically along the outside.

Individuals were counted.



16. Arthropoda - *Ebalia stet.*

Small crab with stout claws and a diamond shaped carapace. Difficult to identify further.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



17. Arthropoda - Paguroidea stet.

Hermit crab with no visible distinguishing features.

Individuals were counted.



18. Arthropoda - Pycnogonida indet. 001

Long thin legs in contrast to a small body size. No visible claws. Spider like appearance.

Individuals were counted.



19. Chordata - Actinopterygii indet. 001

Small banded fish.

Individuals were counted.



20. Chordata - Actinopterygii indet. 02

Small fish with tan colouration, lack of distinguishable features.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



21. Chordata - Actinopterygii *indet.* GL0001

Small semi-transparent fish with pink/orange tinge and lack of distinguishing features.

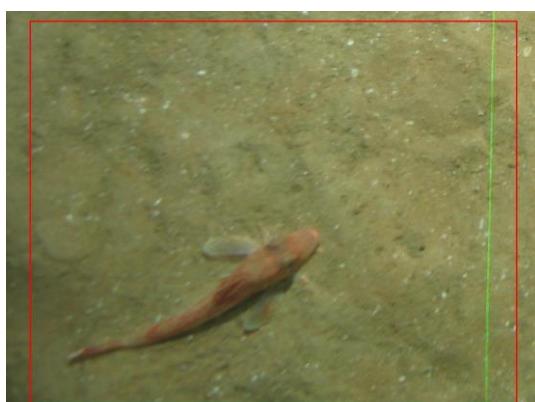
Individuals were counted.



22. Chordata - *Callionymus lyra*

Fish with flat wide body, a long thin tail and a triangular shaped head.

Individuals were counted.



23. Chordata - *Chelidonichthys cuculus*

Large head protected by a bony plate and spines, two dorsal fins and one anal fin. Large pectoral fins, with the first three rays as separate finger-like feelers. A row of large plate like scales along the lateral line are present. Colouration is usually red with a pale underside.

Individuals were counted.



24. Chordata - *Limanda limanda*

Both eyes are on the right side of the body. The basic colour is brown with darker blotches and small speckles. The most characteristic feature is the lateral line, which is strongly arched.

Individuals were counted.

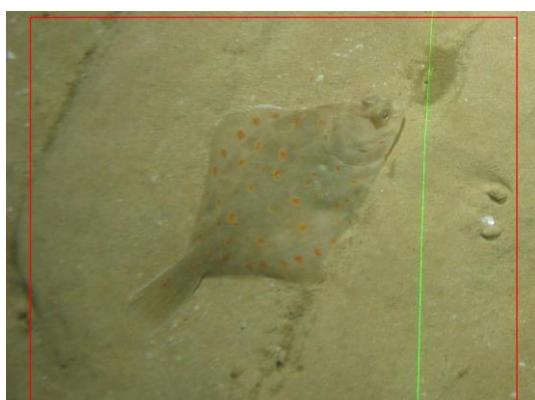
APPENDIX F FAUNAL CATALOGUE



25. Chordata - *Microstomus kitt*

Left eyed flat fish skin is marbled with red/brown colouration and white flecks across the body. Lateral line curves over the pectoral fin. Oval shaped body.

Individuals were counted.



26. Chordata - *Pleuronectes platessa*

Right-eyed, oval shaped fish. A row of bony nodules run between the eyes out towards the gills. The coloration is characteristic, a brown upper side covered in bright orange spots.

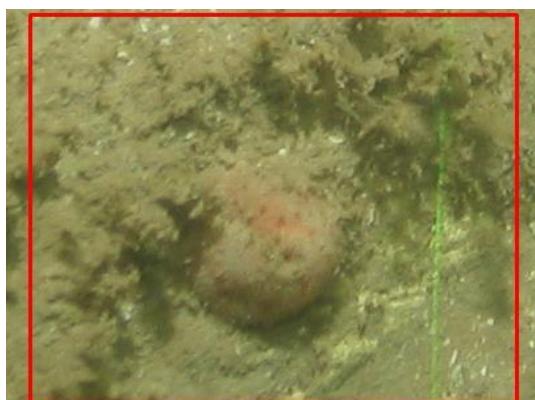
Individuals were counted.



27. Chordata - *Pleuronectiformes stet.*

Flatfish which cannot be identified as they are buried in the sediment.

Individuals were counted.



28. Cnidaria - *Actiniaria stet.*

Anemone with tentacles inverted, so unable to identify further.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



29. Cnidaria - *Calliactis palliata*

Found growing on a gastropod shell inhabited by the hermit crab. The anemone's base is wide and convoluted with lobes that extend around the shell.

Individuals were counted.



30. Cnidaria - *Ceriantharia stet.*

Cerianthid with a reddish centre and thin tentacles.

Individuals were counted.



31. Cnidaria - *Pennatuloidea stet.*

Typical sea pen, short and stout. Tends to be a reddish colour.

Individuals were counted.



32. Echinodermata - *Asterias rubens*

Starfish with five broad arms of varying colour. broad at the base that are often slightly turned up at the tip when active.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



33. Echinodermata - Asteroidea *indet. 001*

Small unidentifiable starfish with 5 visible arms.

Individuals were counted.



34. Echinodermata - Holothuroidea *indet. 001*

Bilaterally symmetrical, several appendages with feeding tentacles at the end.

Individuals were counted.



35. Echinodermata - *Luidia ciliaris*

L. ciliaris is an orange/brown colour and has seven long arms radiating from a small disk.

Individuals were counted.



36. Echinodermata - Ophiuridae *stet.*

Orange brittle star with five thin arms. Unable to distinguish further.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



37. Mollusca - *Aequipecten opercularis*

Scallop with around 20 ribs and uneven sized valve ears.

Individuals were counted.



38. Mollusca - *Arctica islandica* siphons

Two siphons pink/ orange in colour resembling a pig snout.
Short tentacles can often be seen around the rim of the siphons.

Individuals were counted.



39. Mollusca - Bivalvia siphons

Pair of unknown siphons buried in the sediment

Individuals were counted.



40. Mollusca - *Euspira indet. 001*

Small gastropod with a relatively large, purple foot and pink shell.

Individuals were counted.

APPENDIX F FAUNAL CATALOGUE



41. Mollusca - Scaphopoda *stet.*

White tubular shell resembling an elephant tusk.

Individuals were counted.

APPENDIX G IMAGERY PROFORMAS

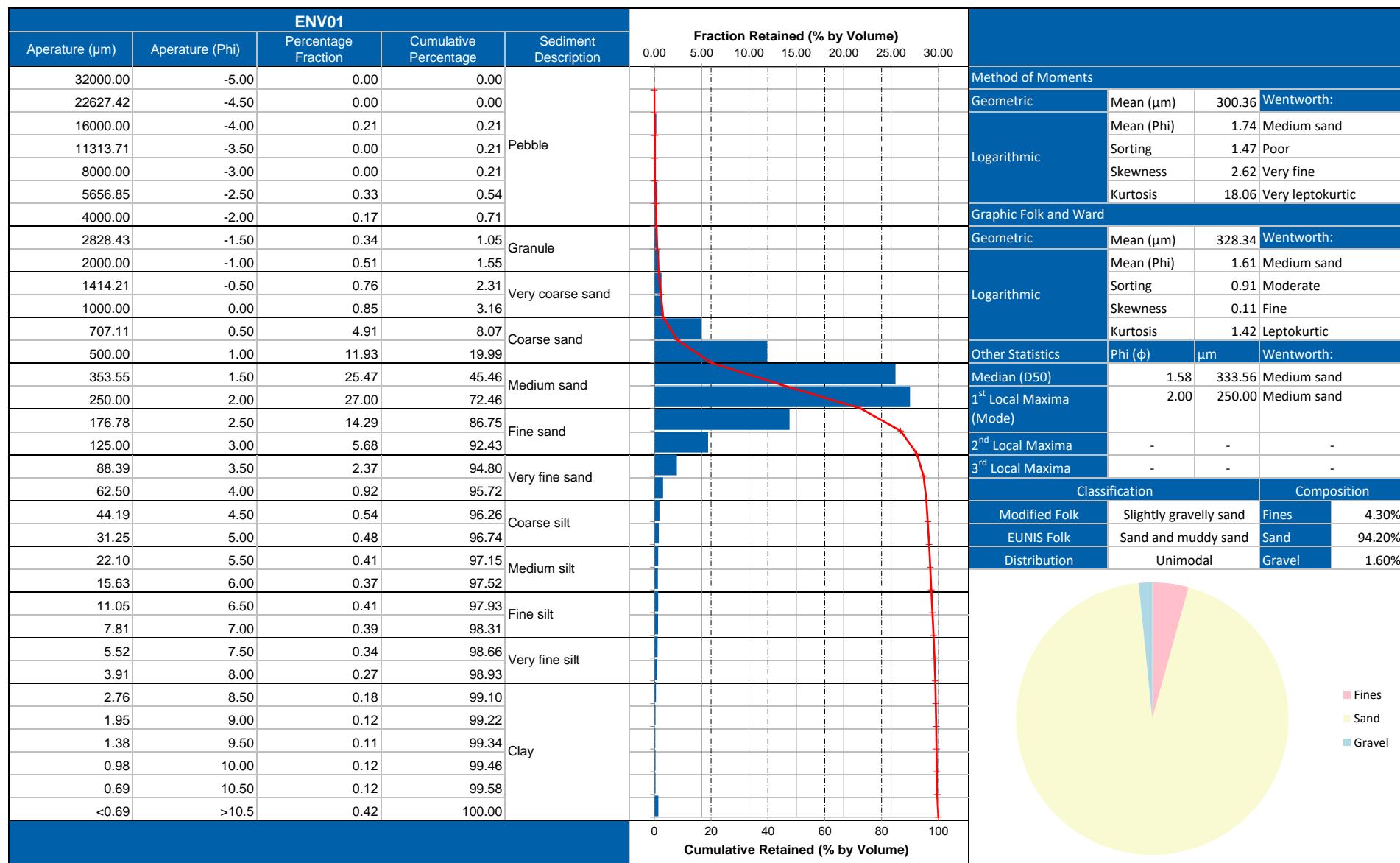
APPENDIX G IMAGERY PROFORMAS

The completed imagery proformas can be found in the attached Excel documents titled:
54463 Caledonia OWF Phase 2 Survey - Array Area Imagery Proformas (Rev0 07-Jul-2023).xlsx

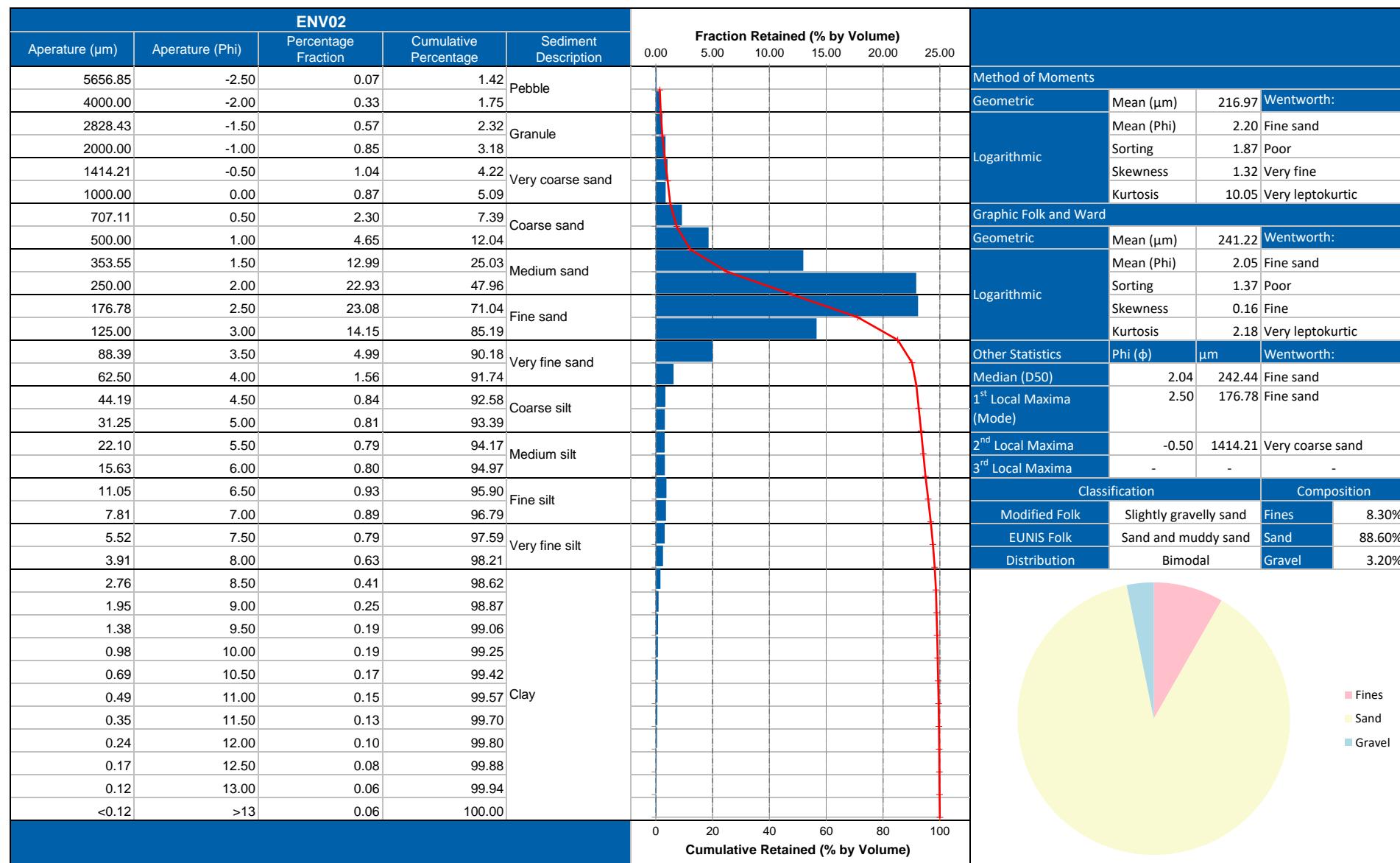
[Click here to show/hide the attachment pane.](#)

APPENDIX H PARTICLE SIZE ANALYSIS

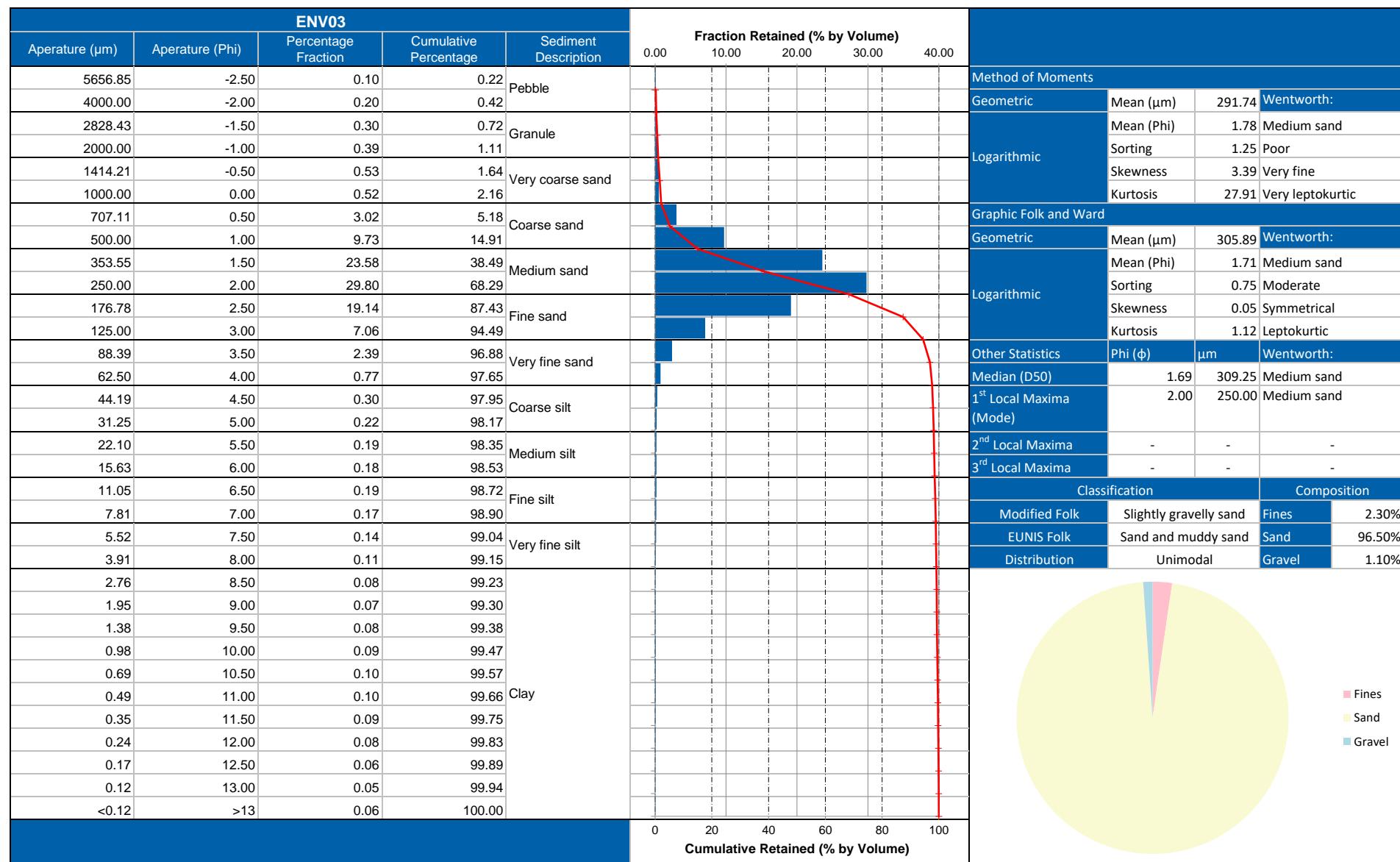
APPENDIX H PARTICLE SIZE ANALYSIS



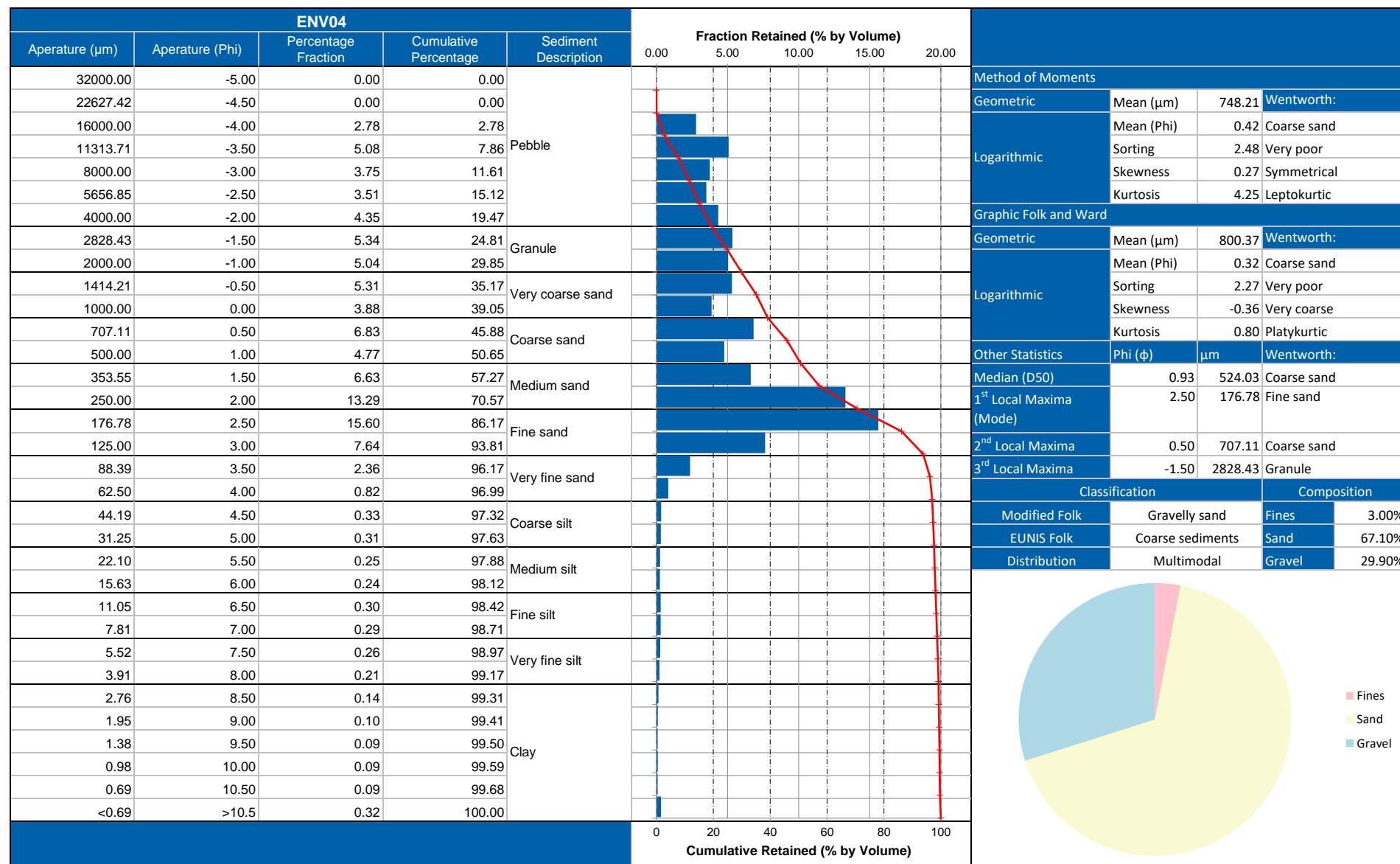
APPENDIX H PARTICLE SIZE ANALYSIS



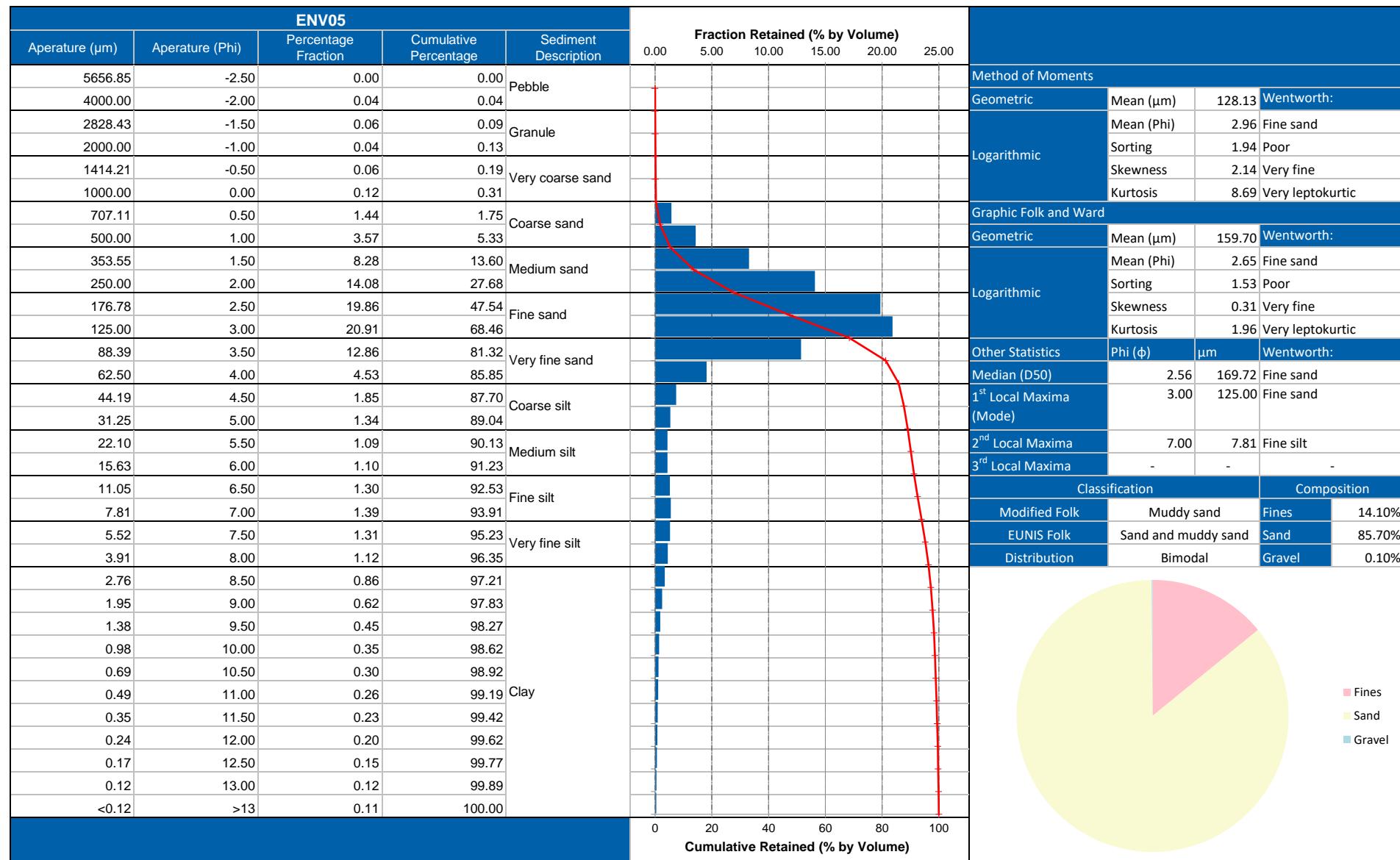
APPENDIX H PARTICLE SIZE ANALYSIS



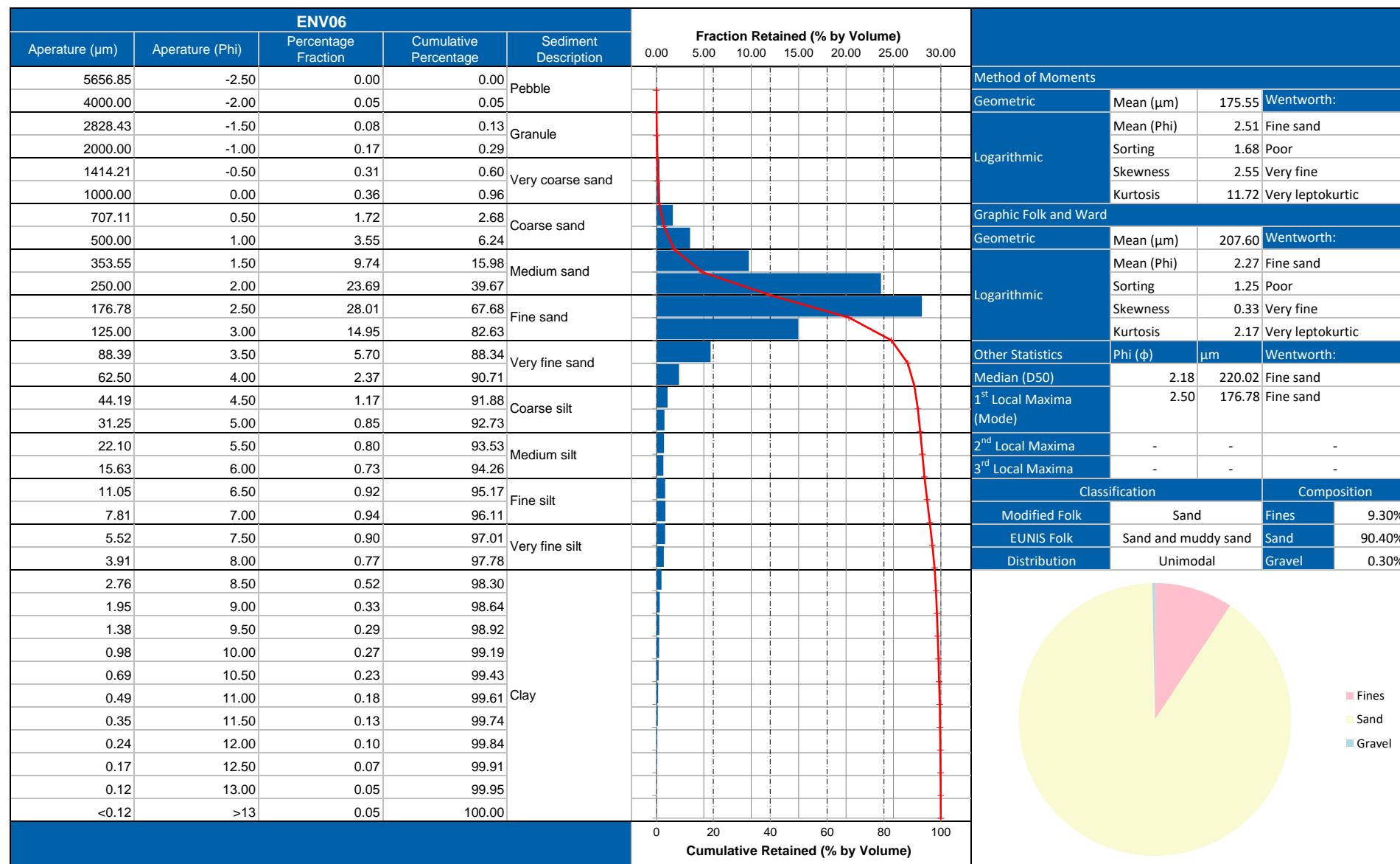
APPENDIX H PARTICLE SIZE ANALYSIS



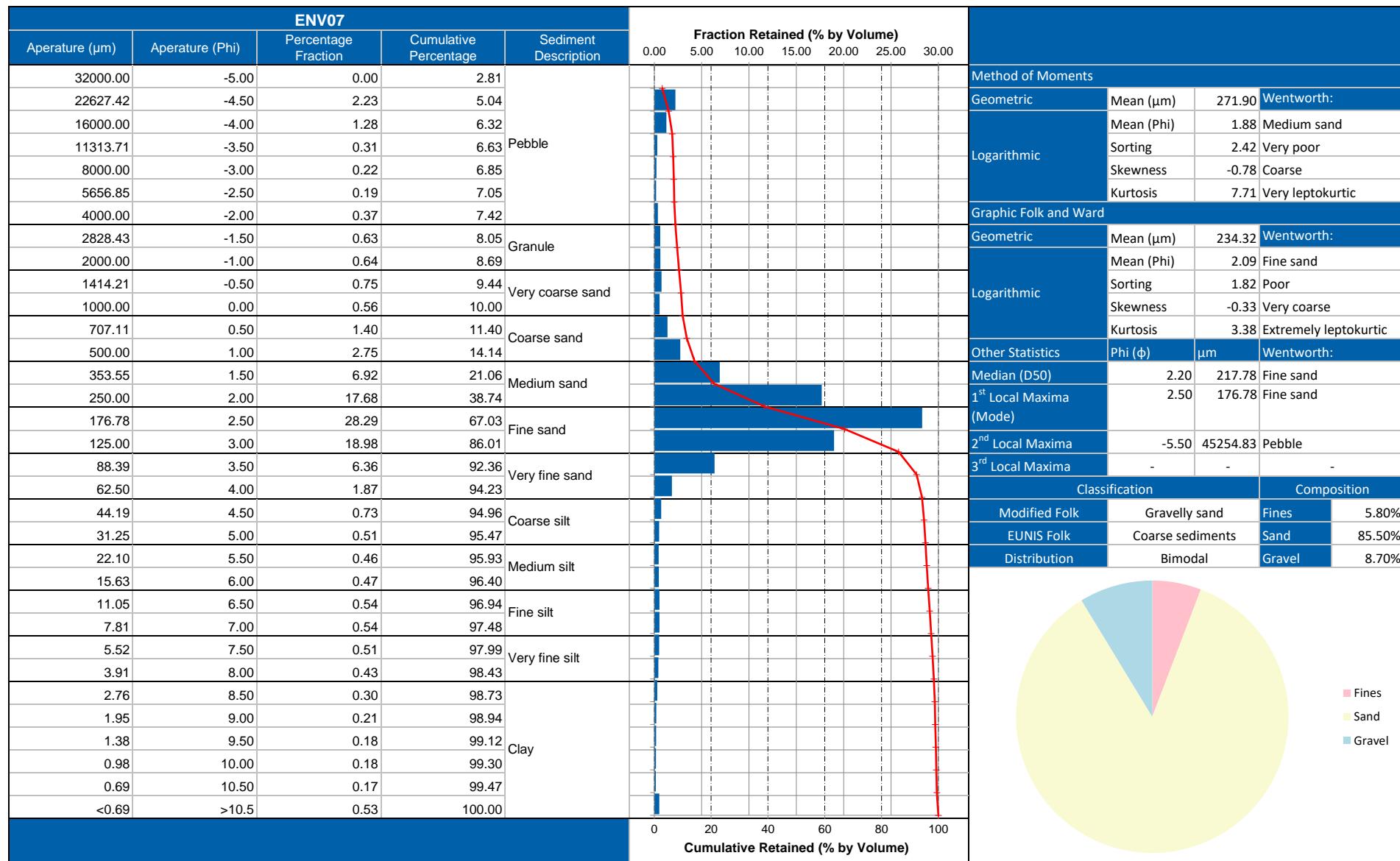
APPENDIX H PARTICLE SIZE ANALYSIS



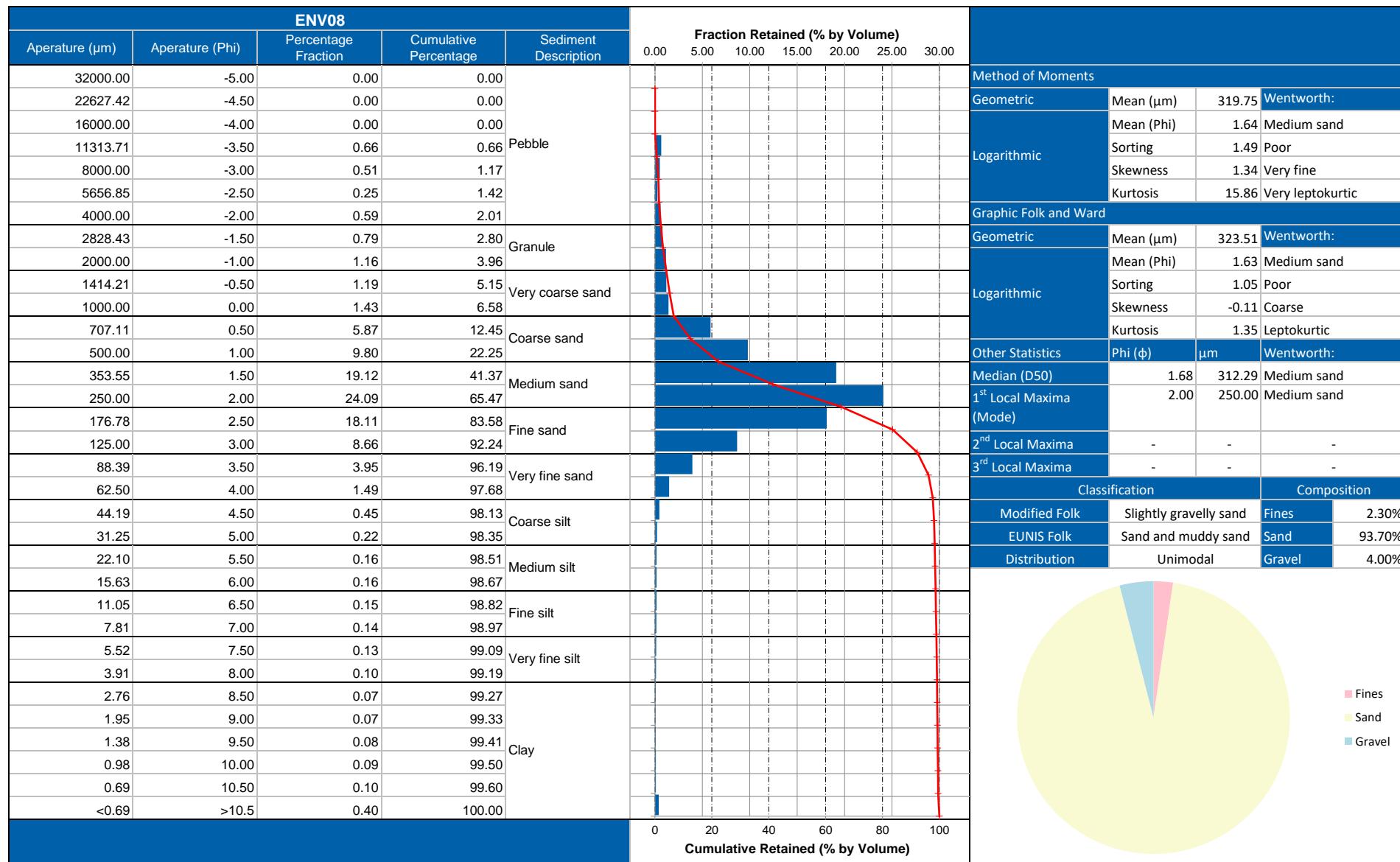
APPENDIX H PARTICLE SIZE ANALYSIS



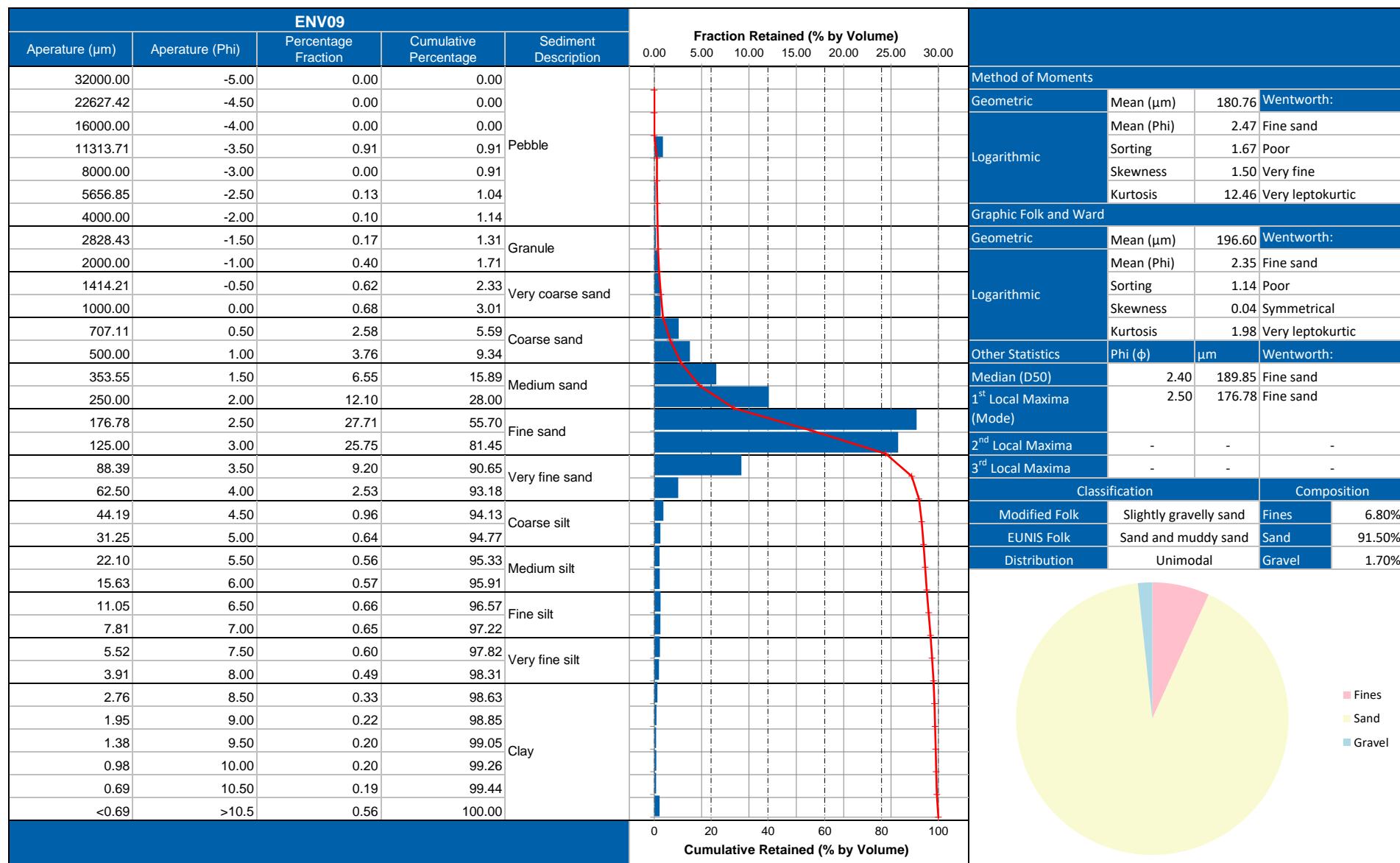
APPENDIX H PARTICLE SIZE ANALYSIS



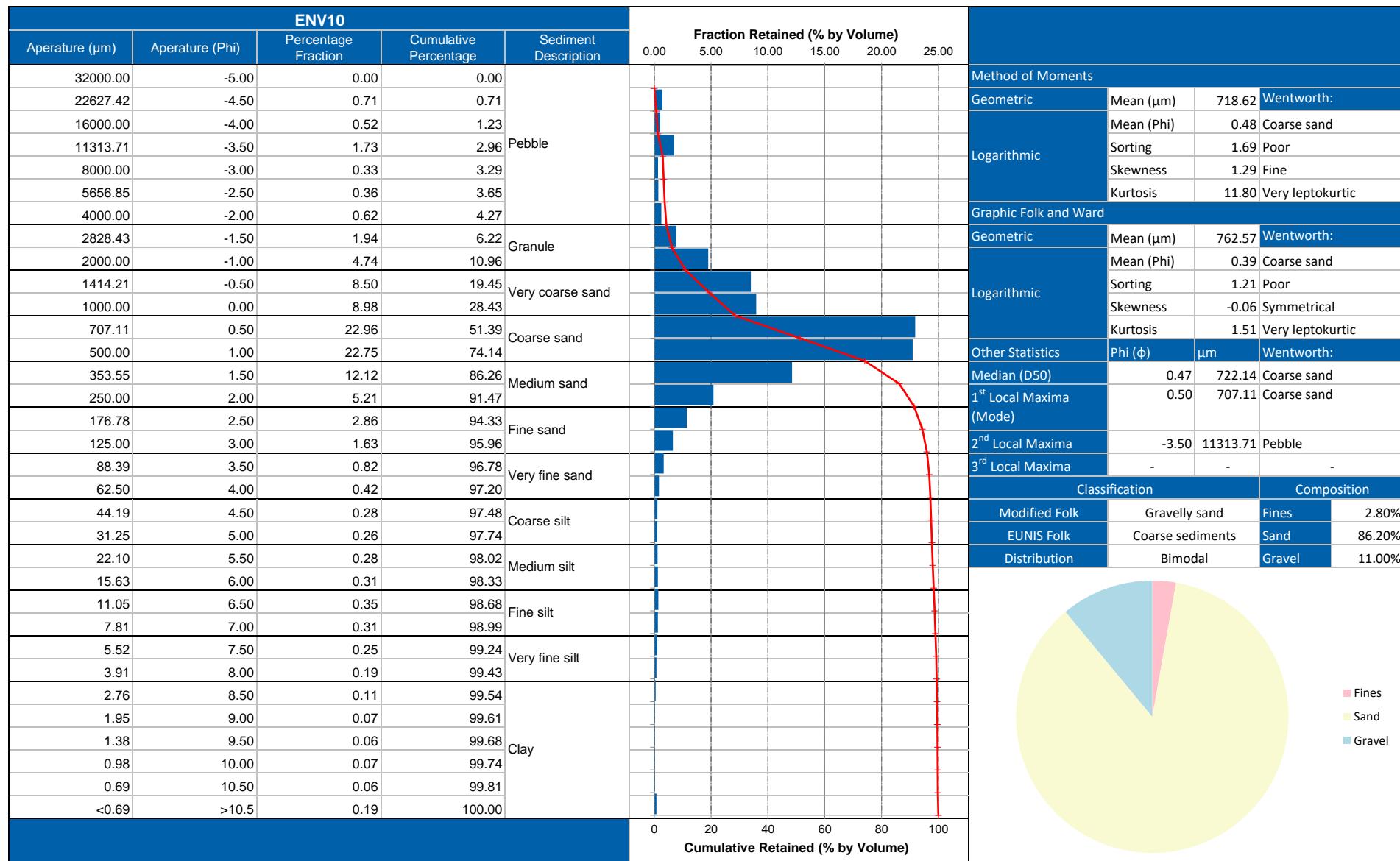
APPENDIX H PARTICLE SIZE ANALYSIS



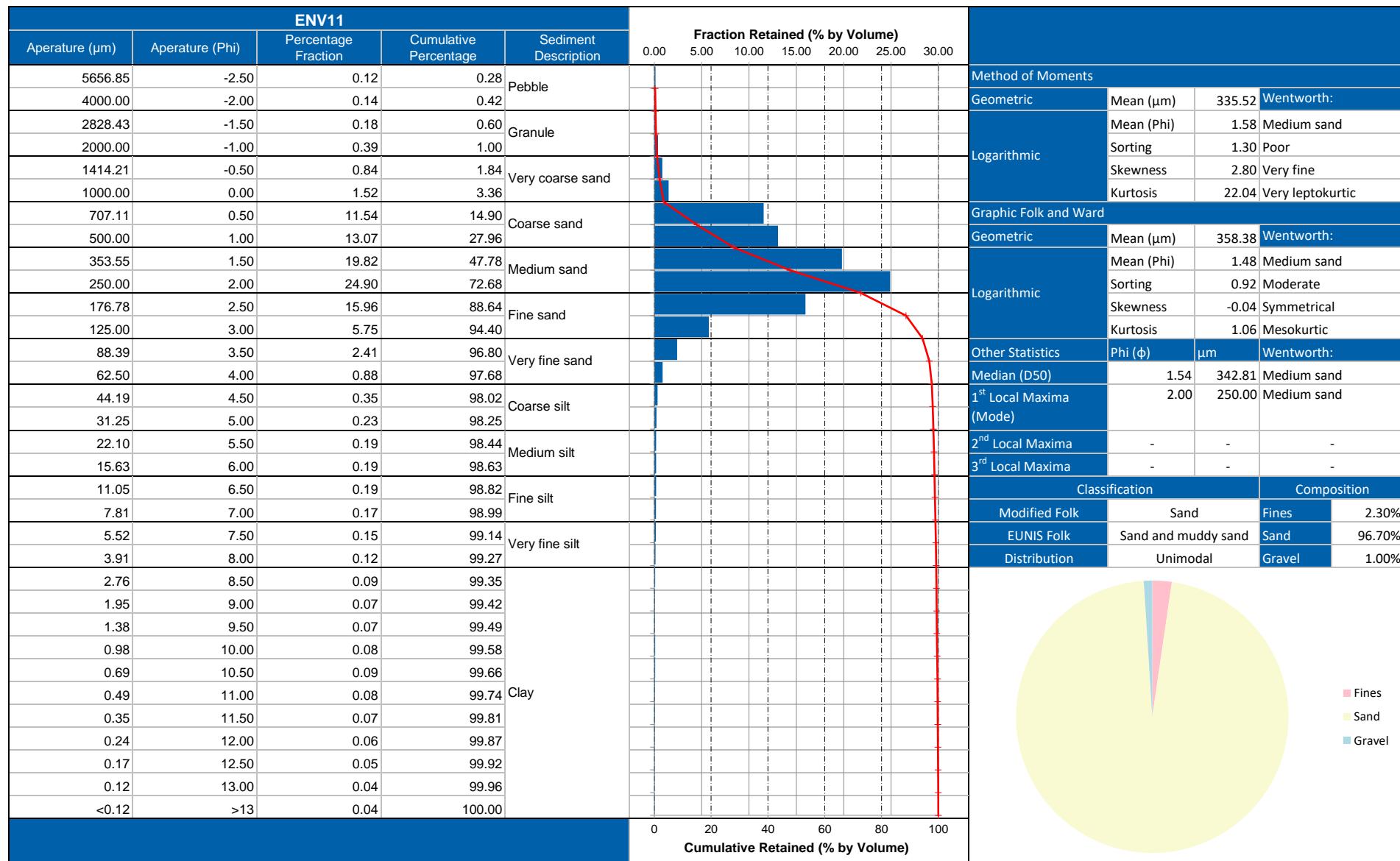
APPENDIX H PARTICLE SIZE ANALYSIS



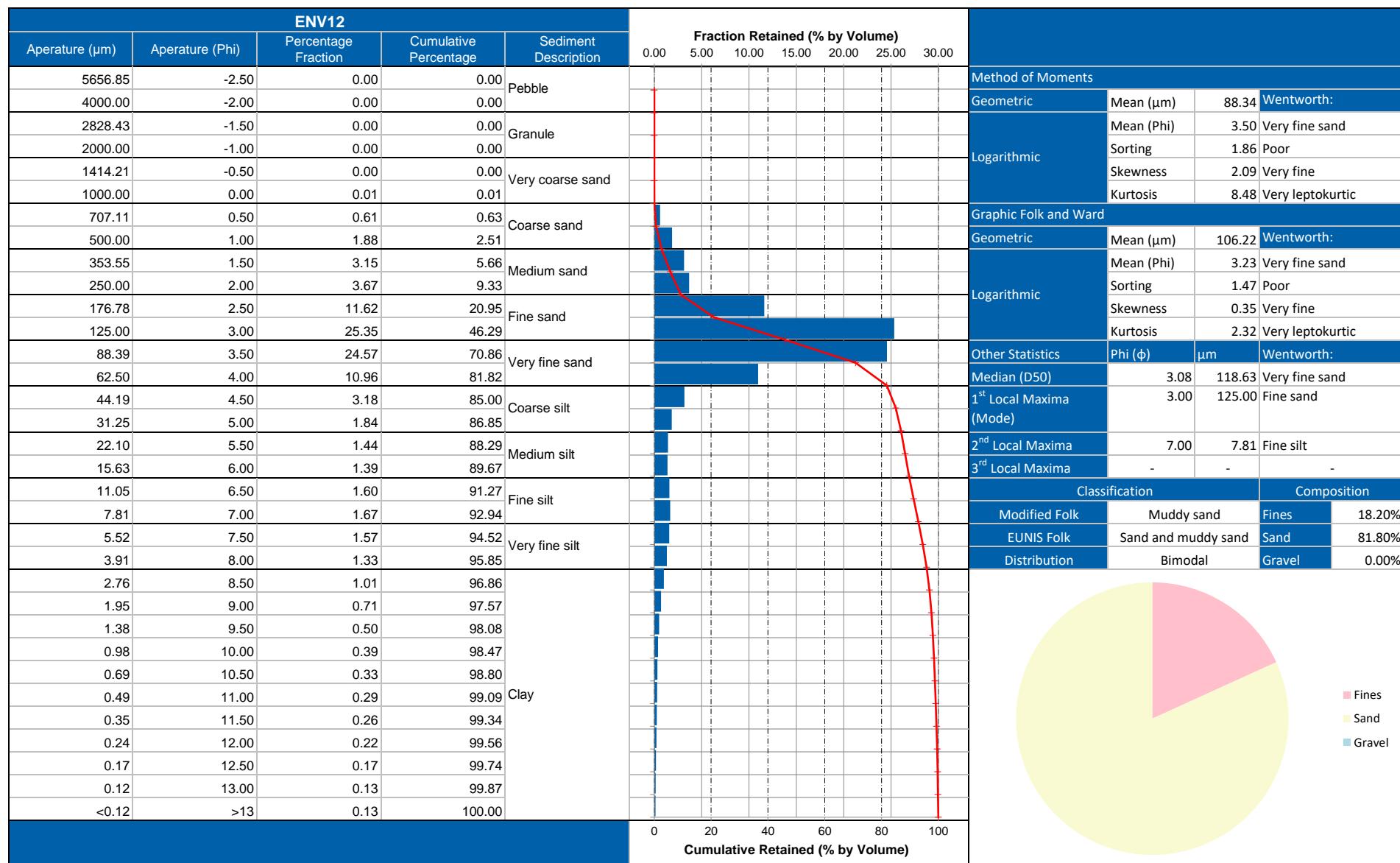
APPENDIX H PARTICLE SIZE ANALYSIS



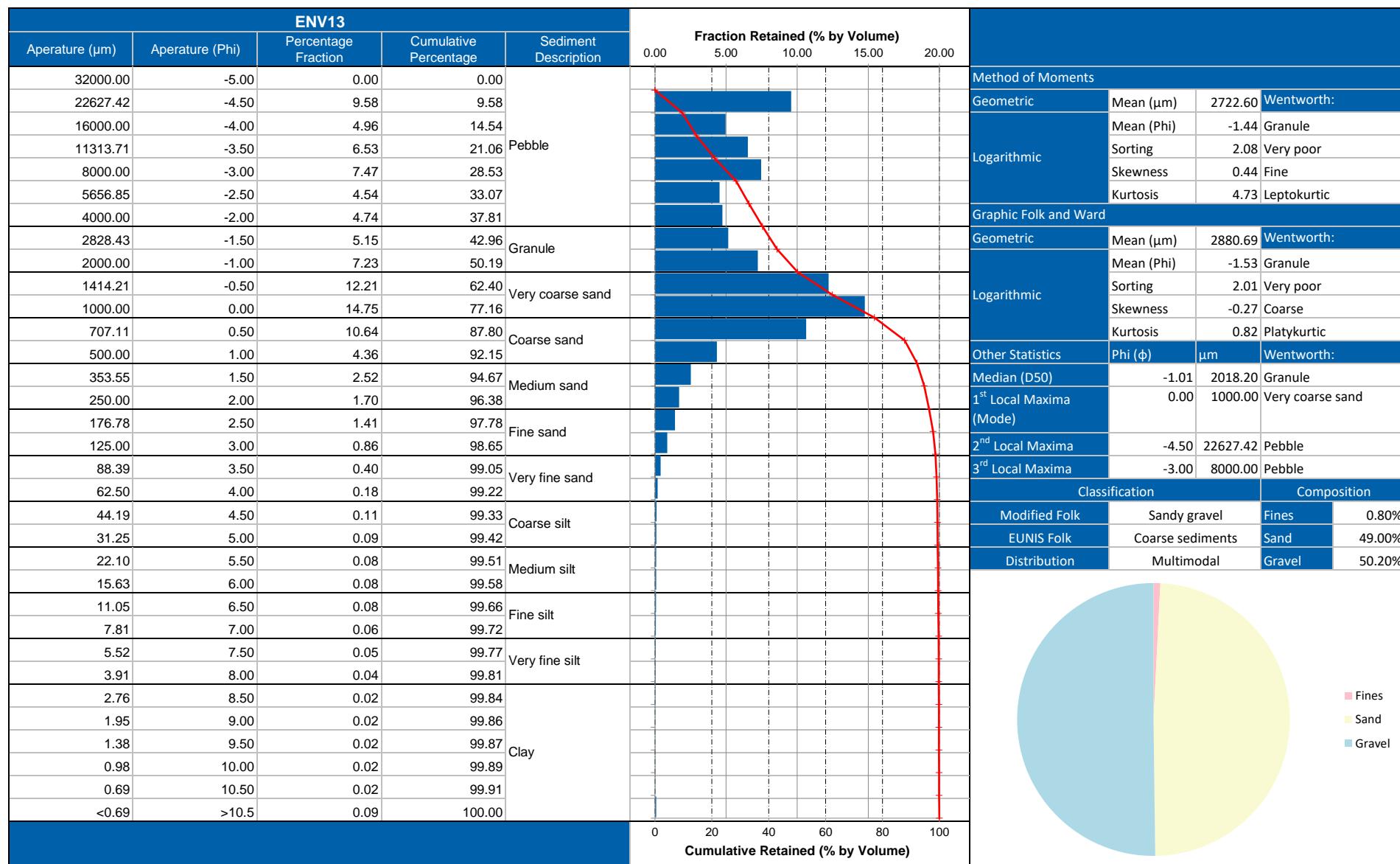
APPENDIX H PARTICLE SIZE ANALYSIS



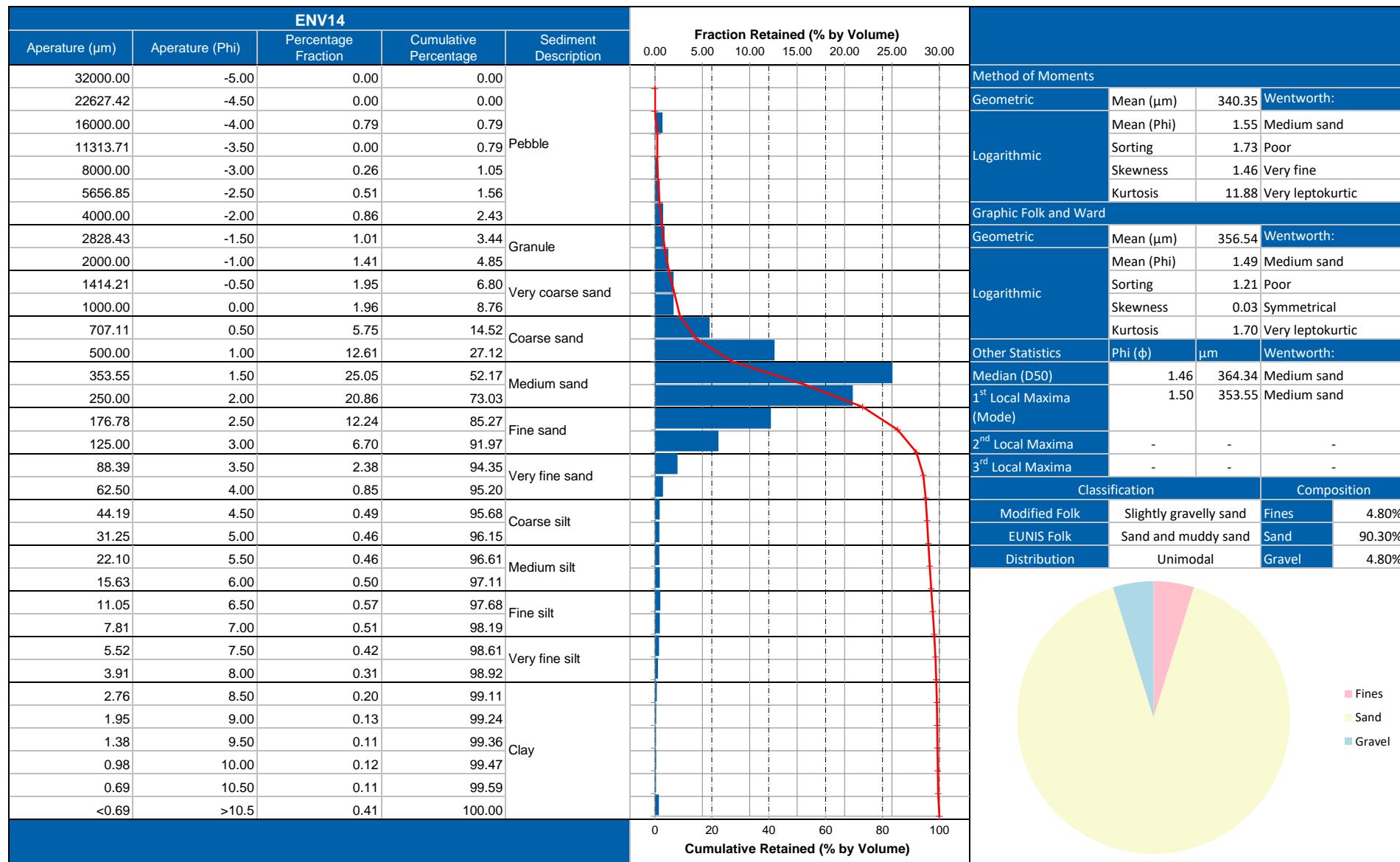
APPENDIX H PARTICLE SIZE ANALYSIS



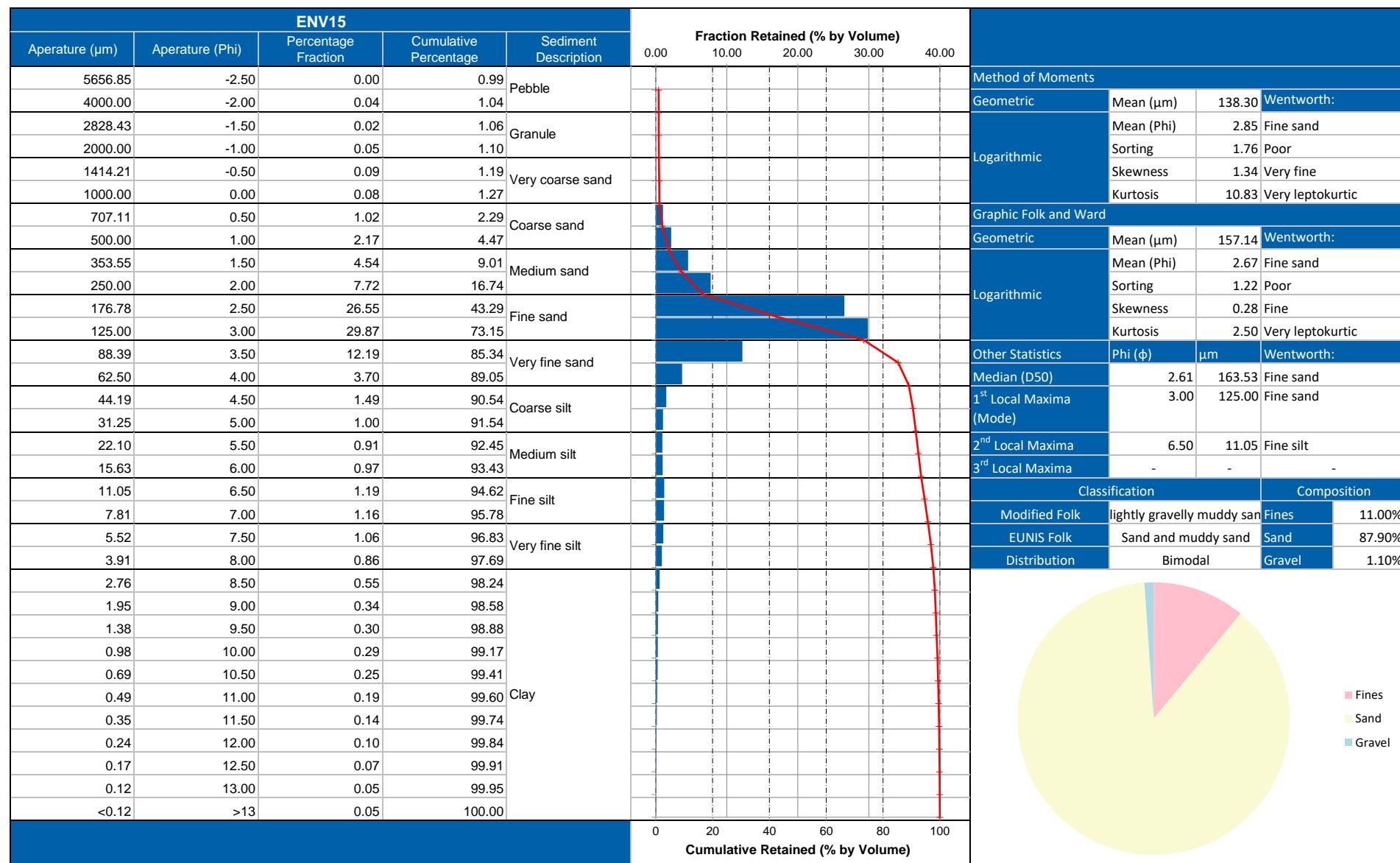
APPENDIX H PARTICLE SIZE ANALYSIS



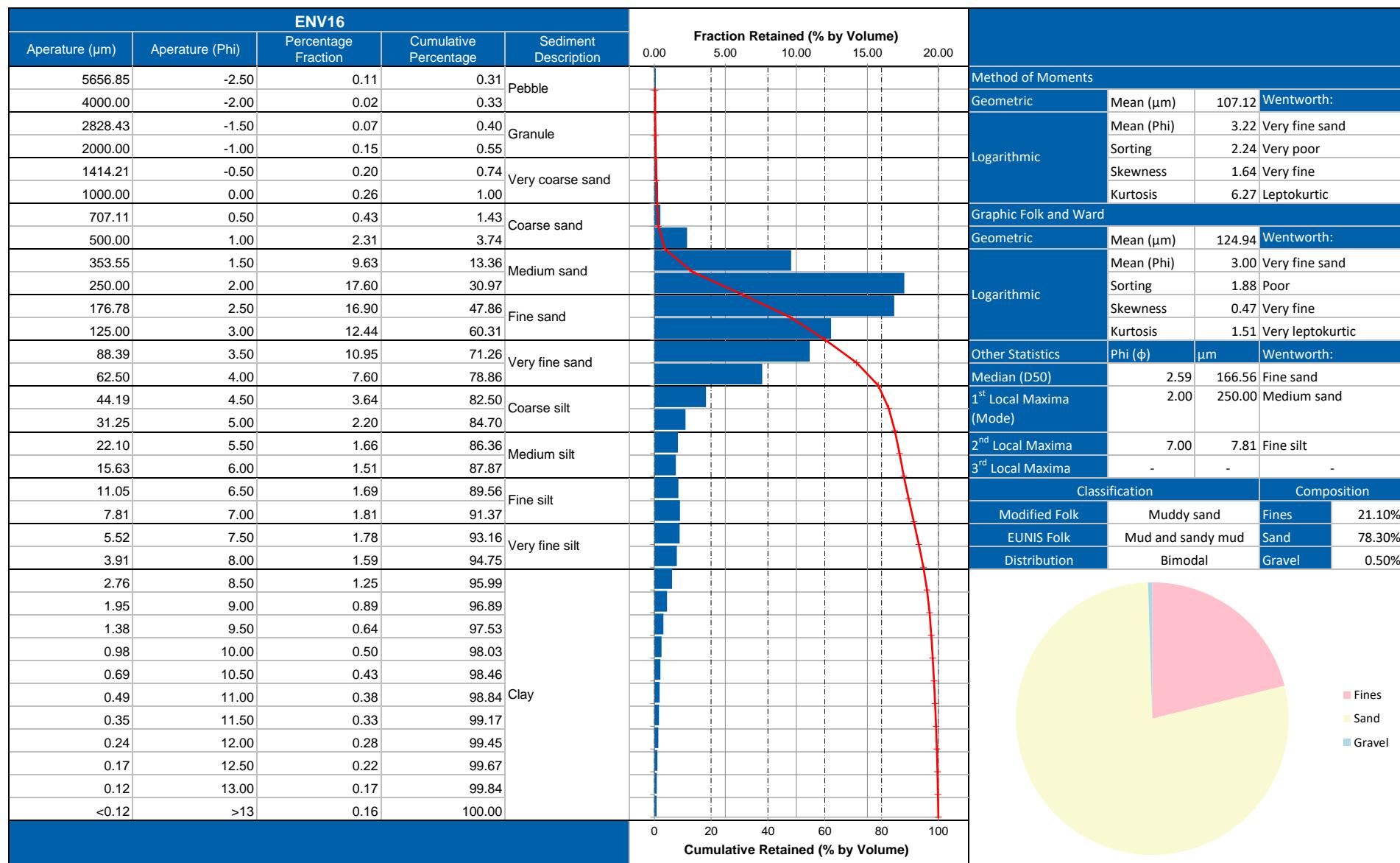
APPENDIX H PARTICLE SIZE ANALYSIS



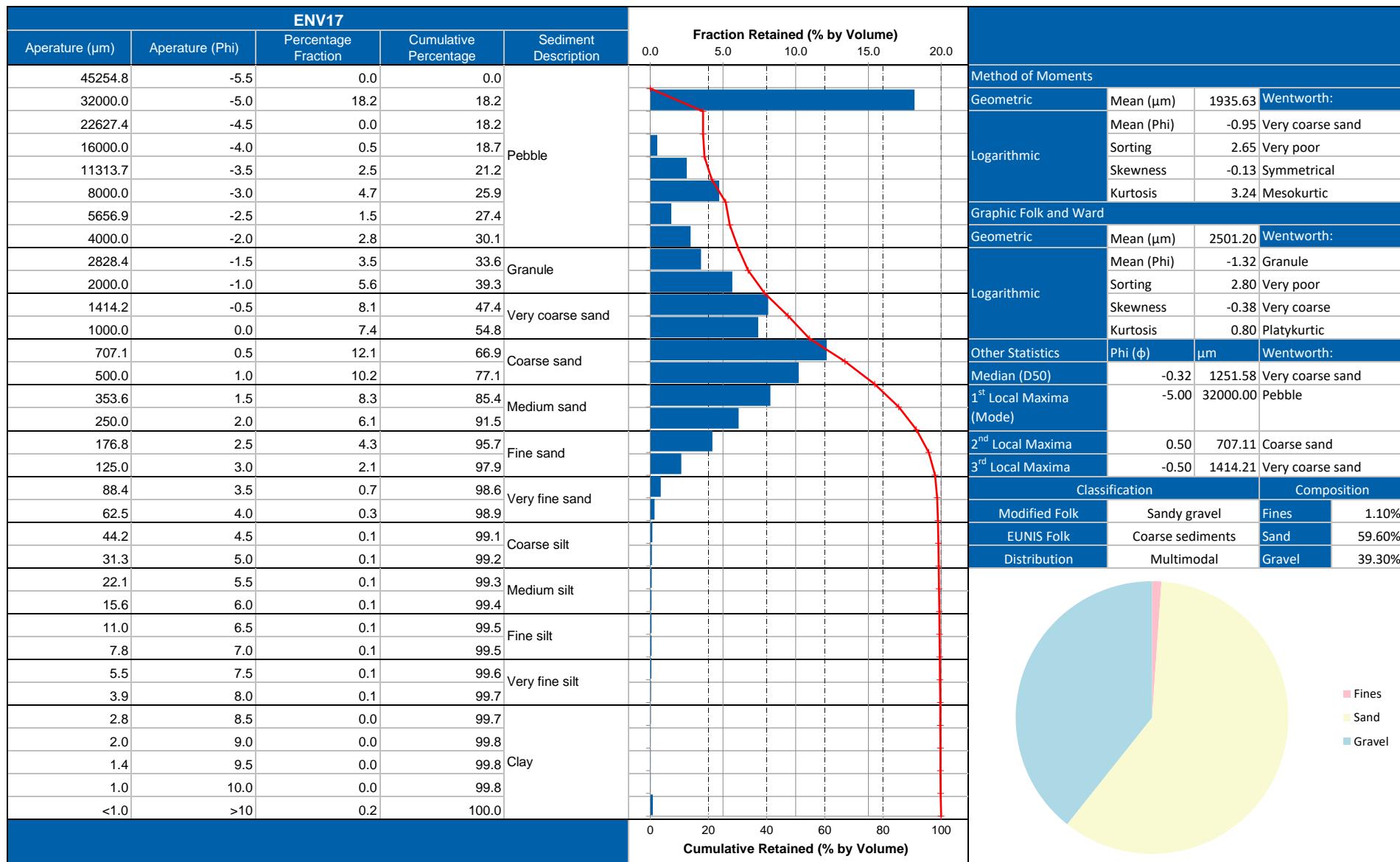
APPENDIX H PARTICLE SIZE ANALYSIS



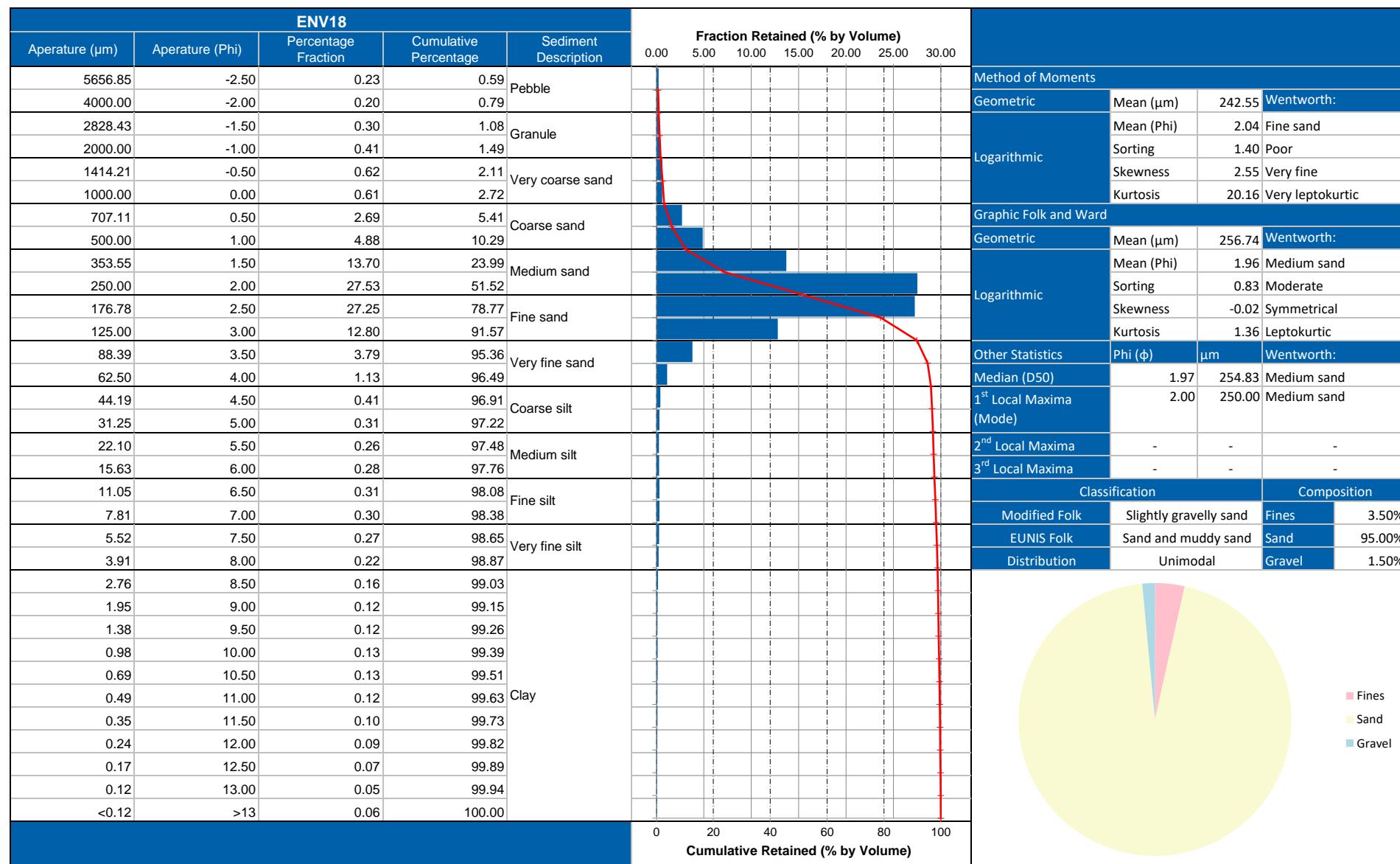
APPENDIX H PARTICLE SIZE ANALYSIS



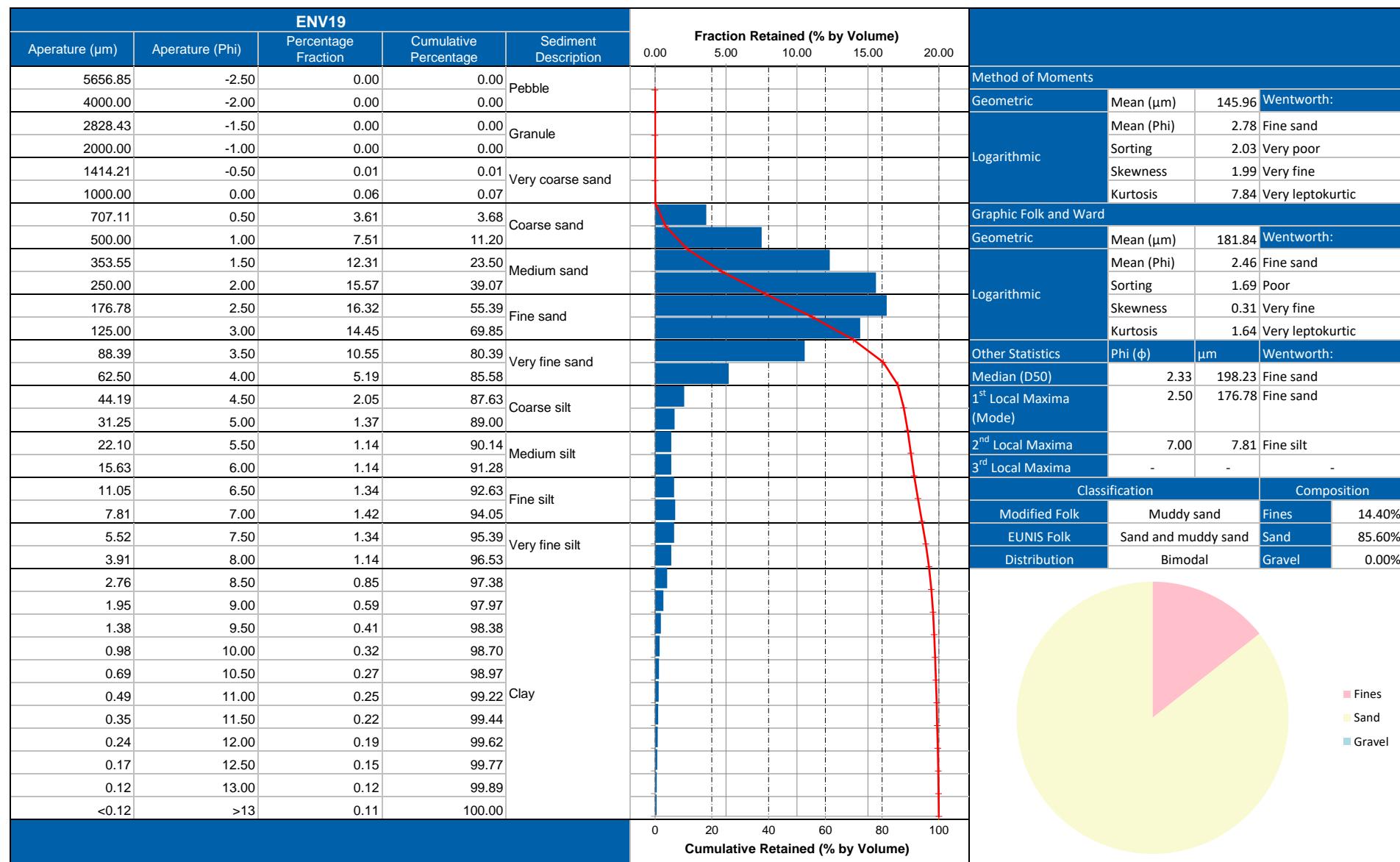
APPENDIX H PARTICLE SIZE ANALYSIS



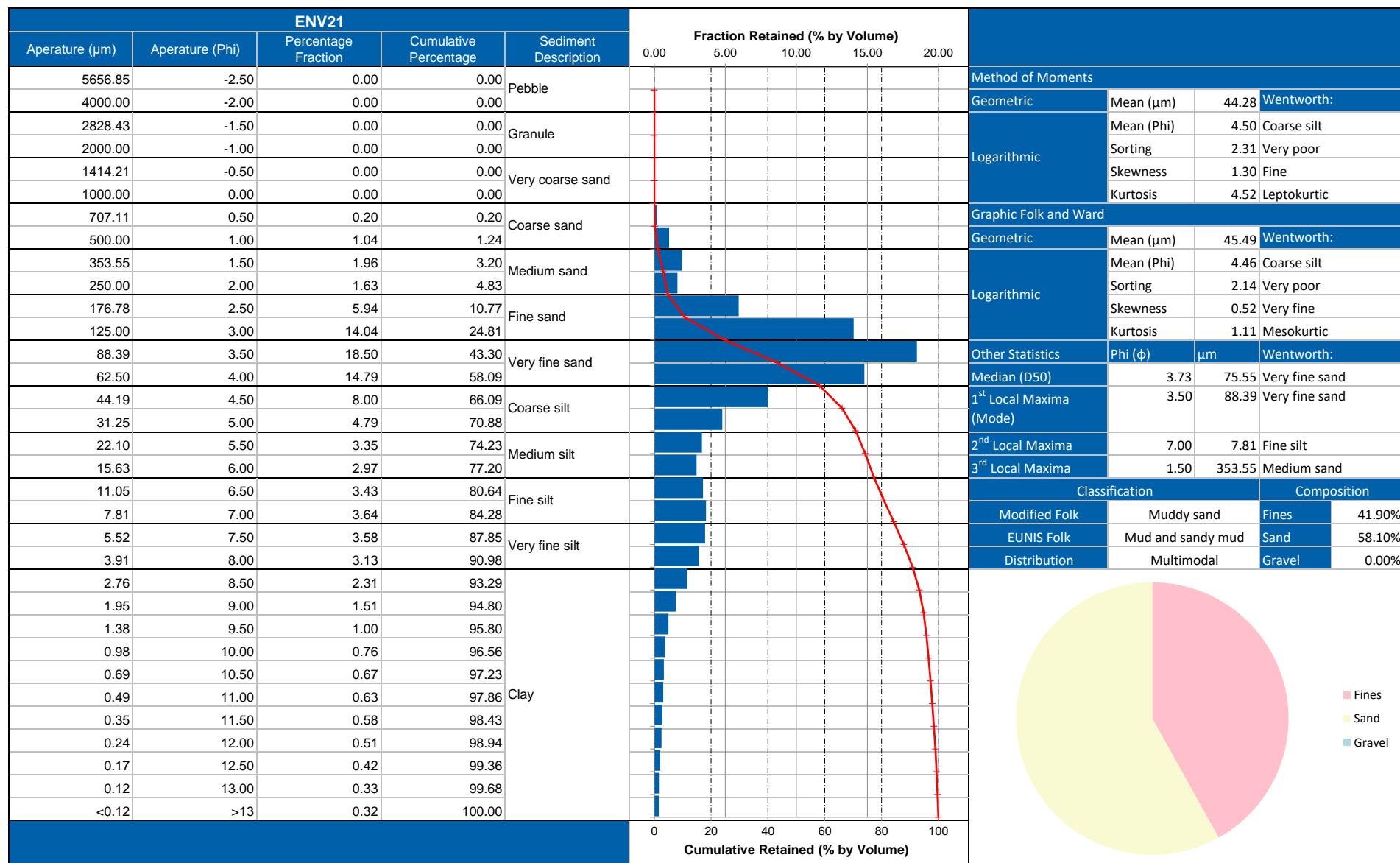
APPENDIX H PARTICLE SIZE ANALYSIS



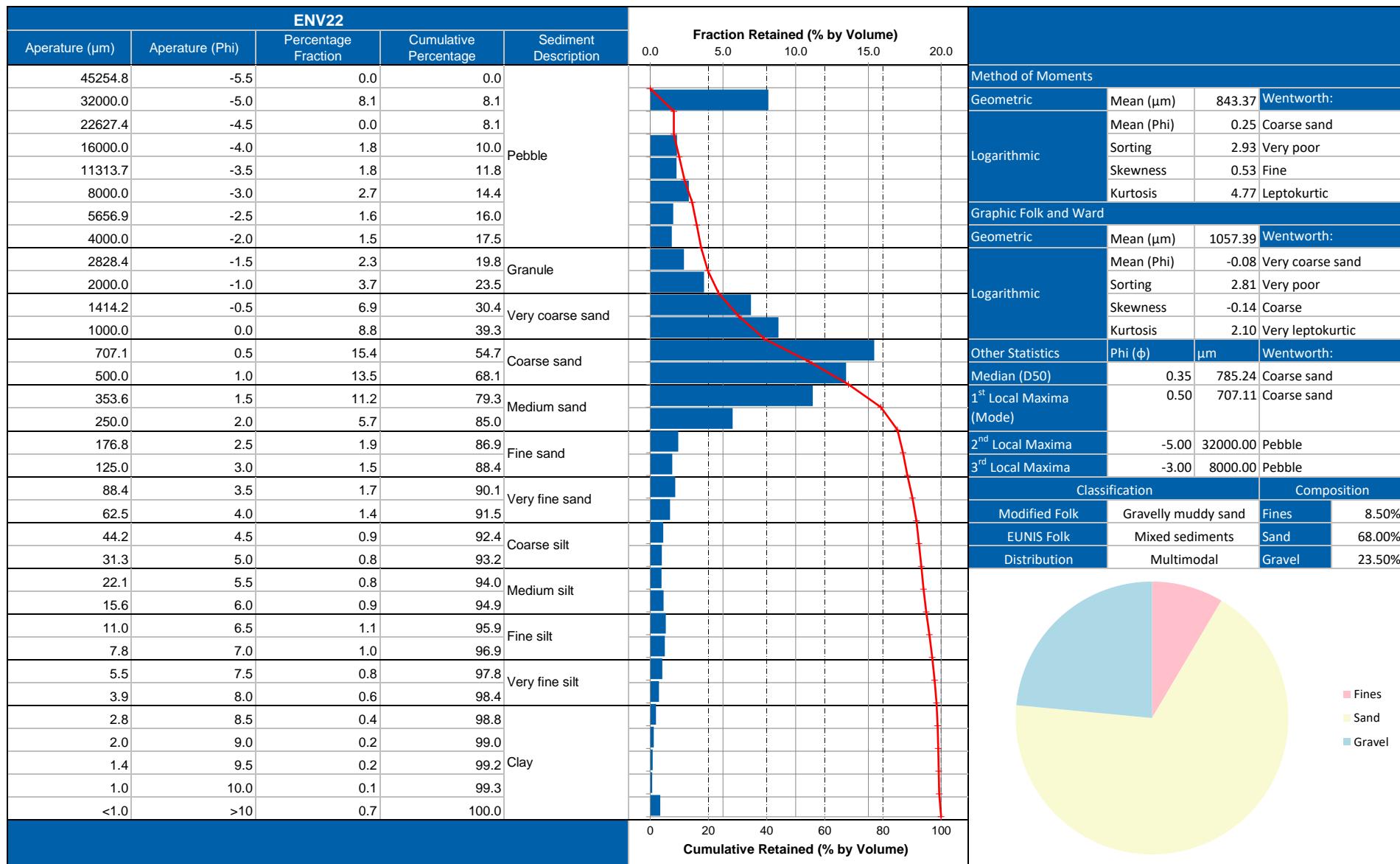
APPENDIX H PARTICLE SIZE ANALYSIS



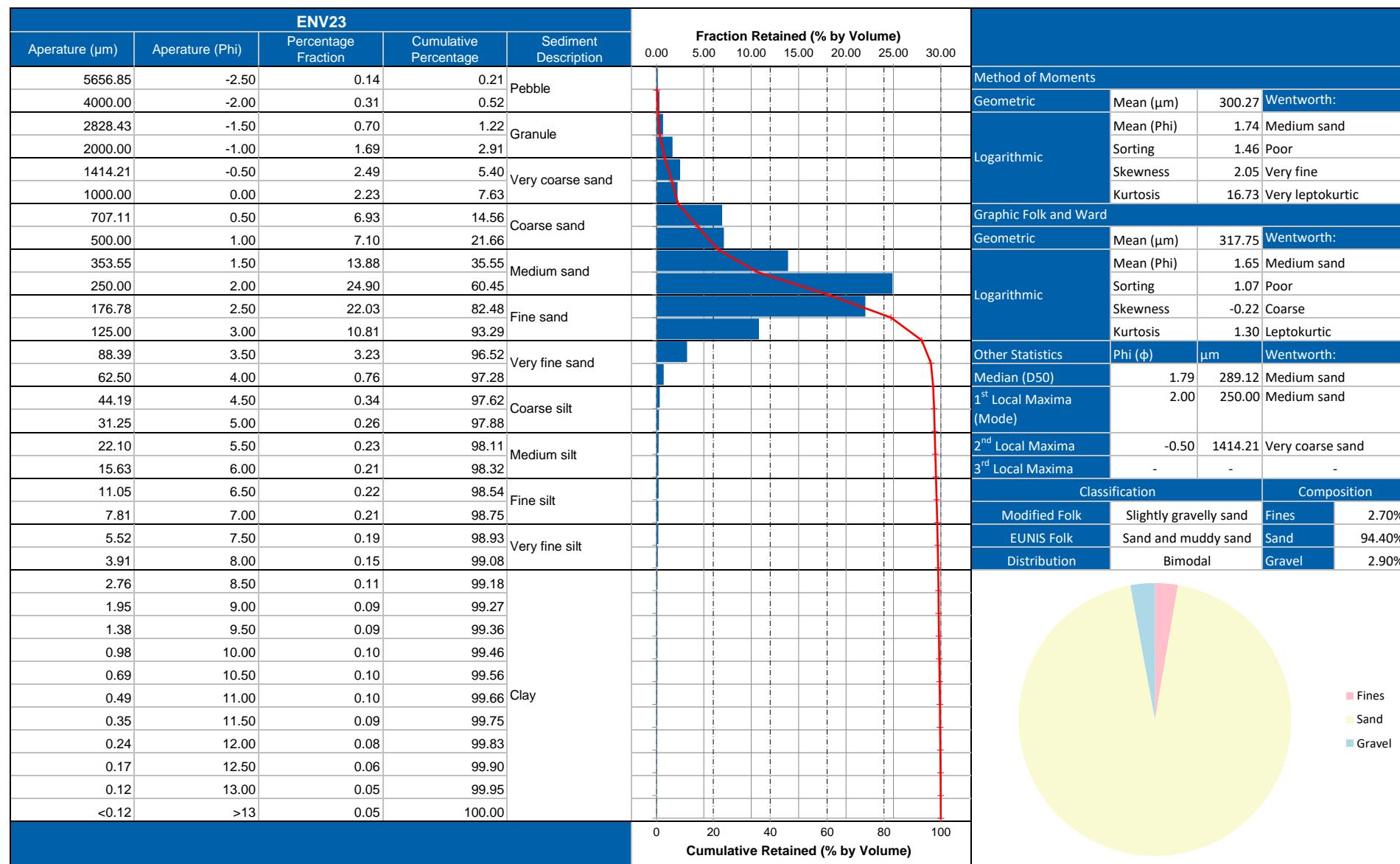
APPENDIX H PARTICLE SIZE ANALYSIS



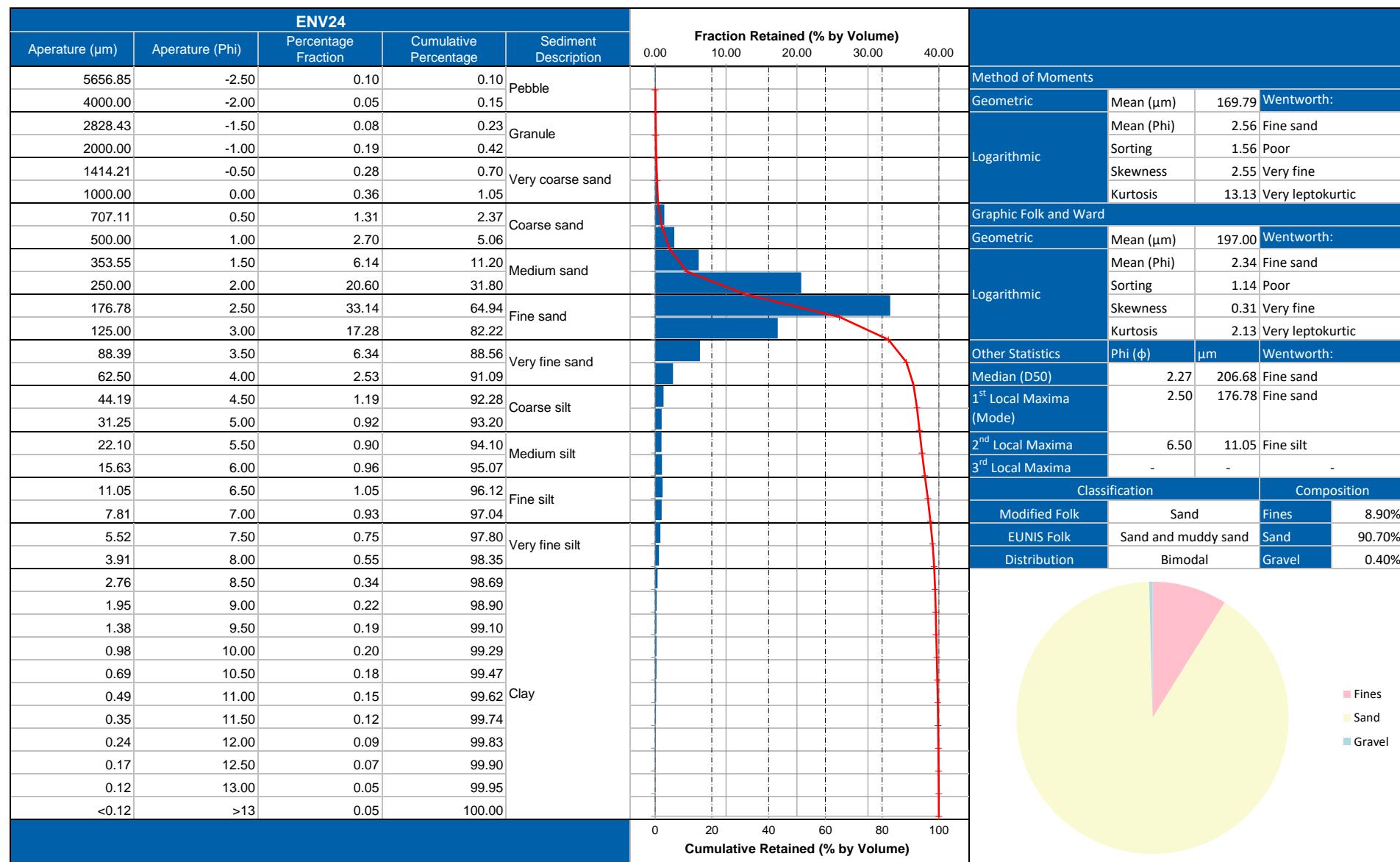
APPENDIX H PARTICLE SIZE ANALYSIS



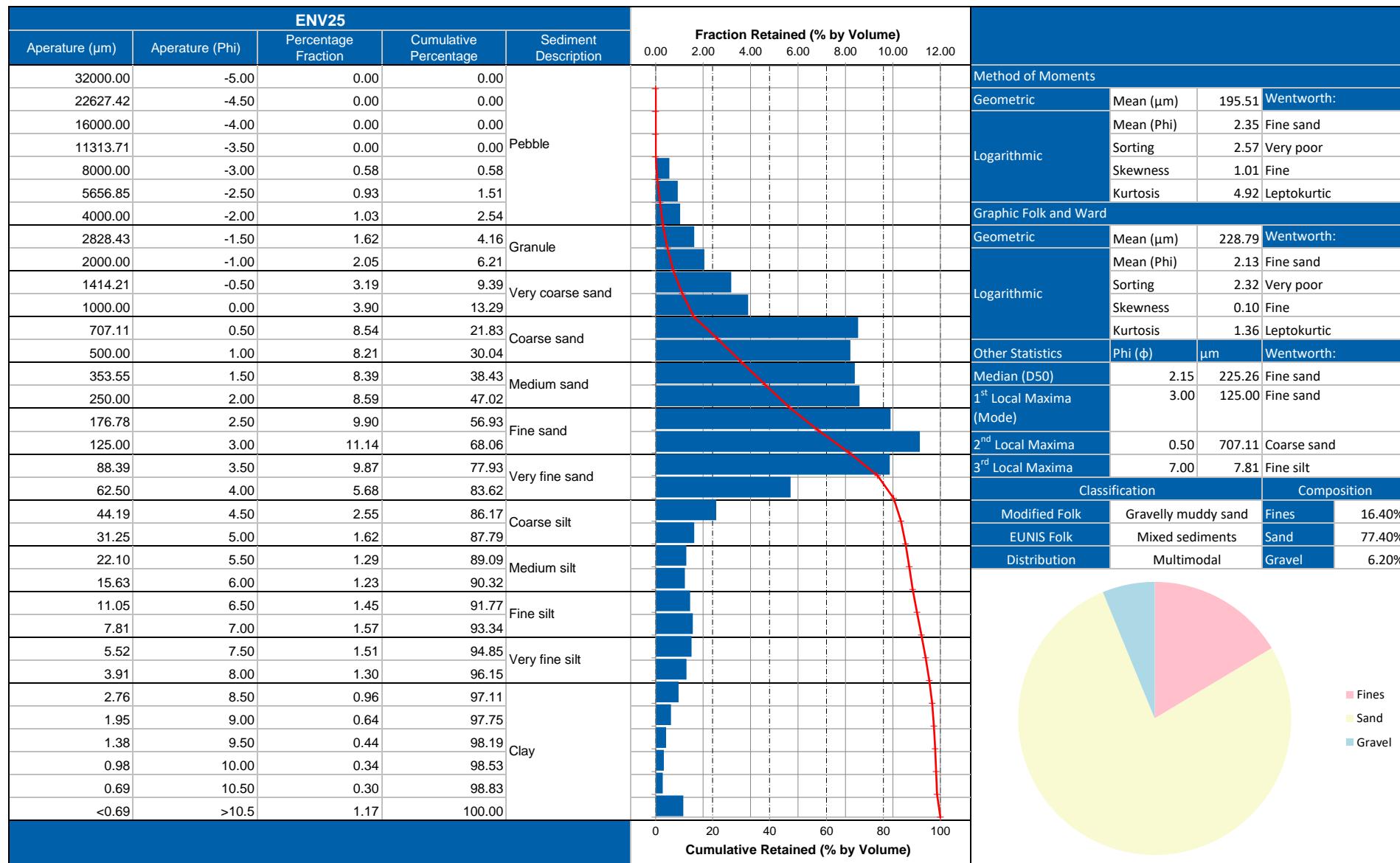
APPENDIX H PARTICLE SIZE ANALYSIS



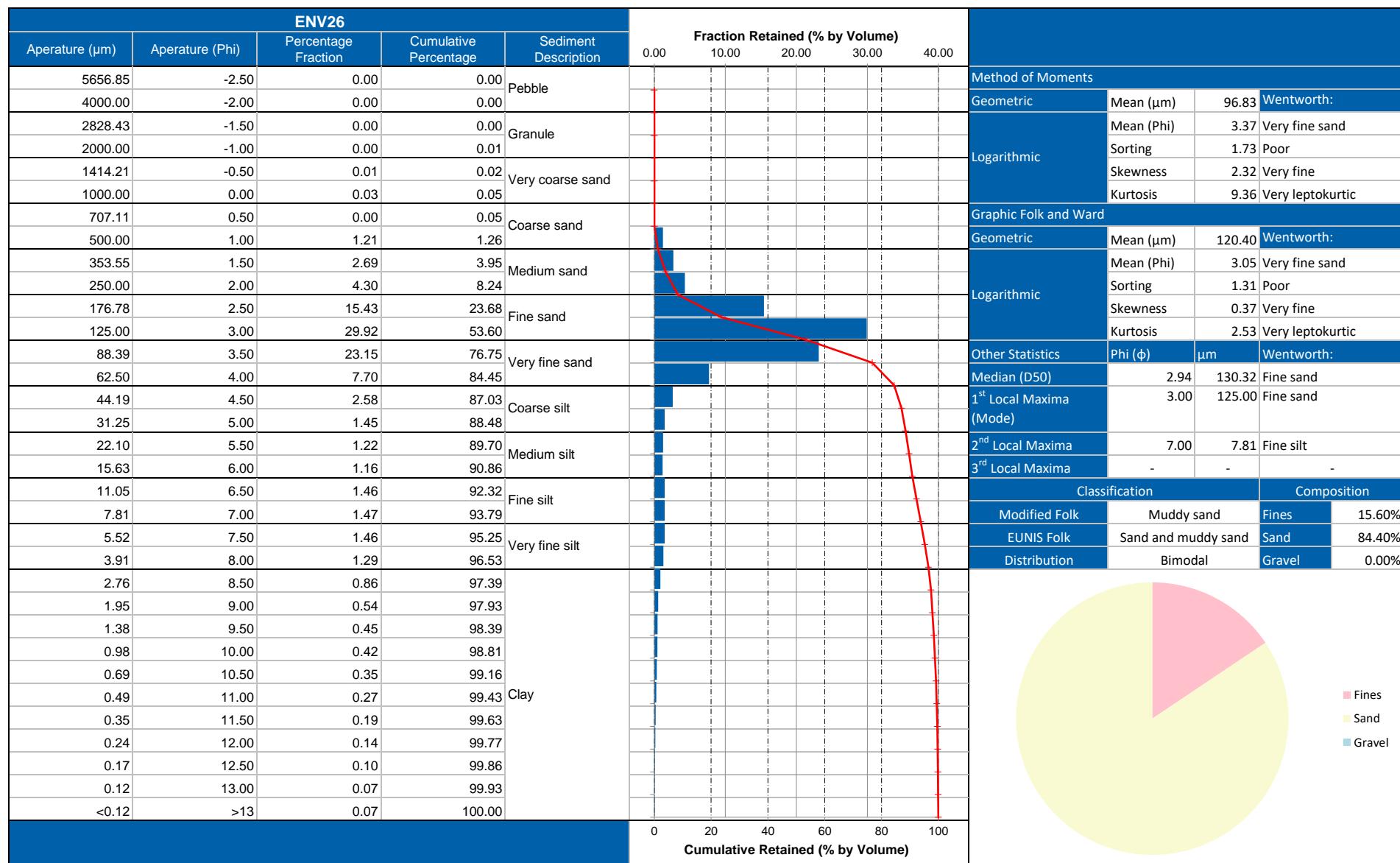
APPENDIX H PARTICLE SIZE ANALYSIS



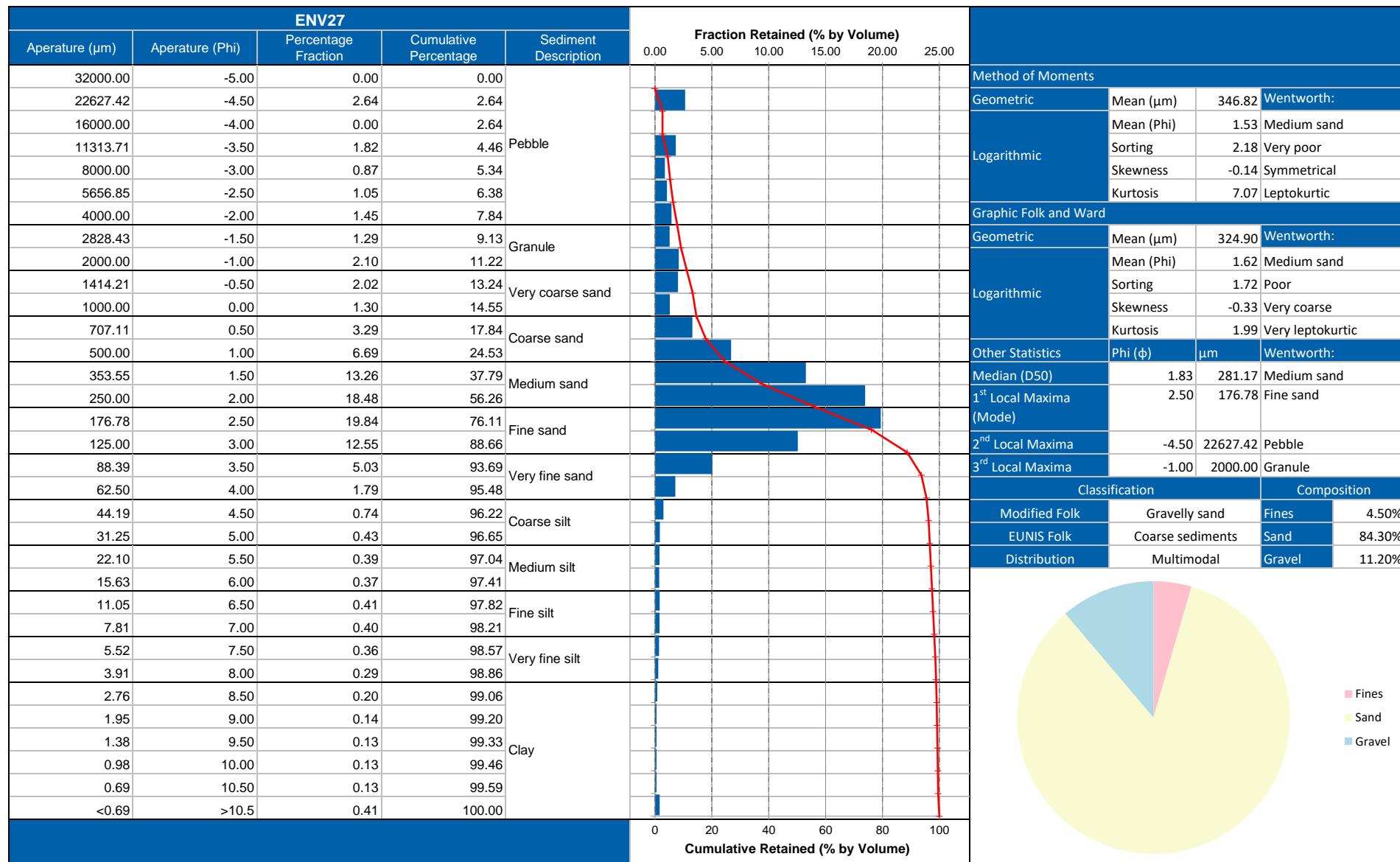
APPENDIX H PARTICLE SIZE ANALYSIS



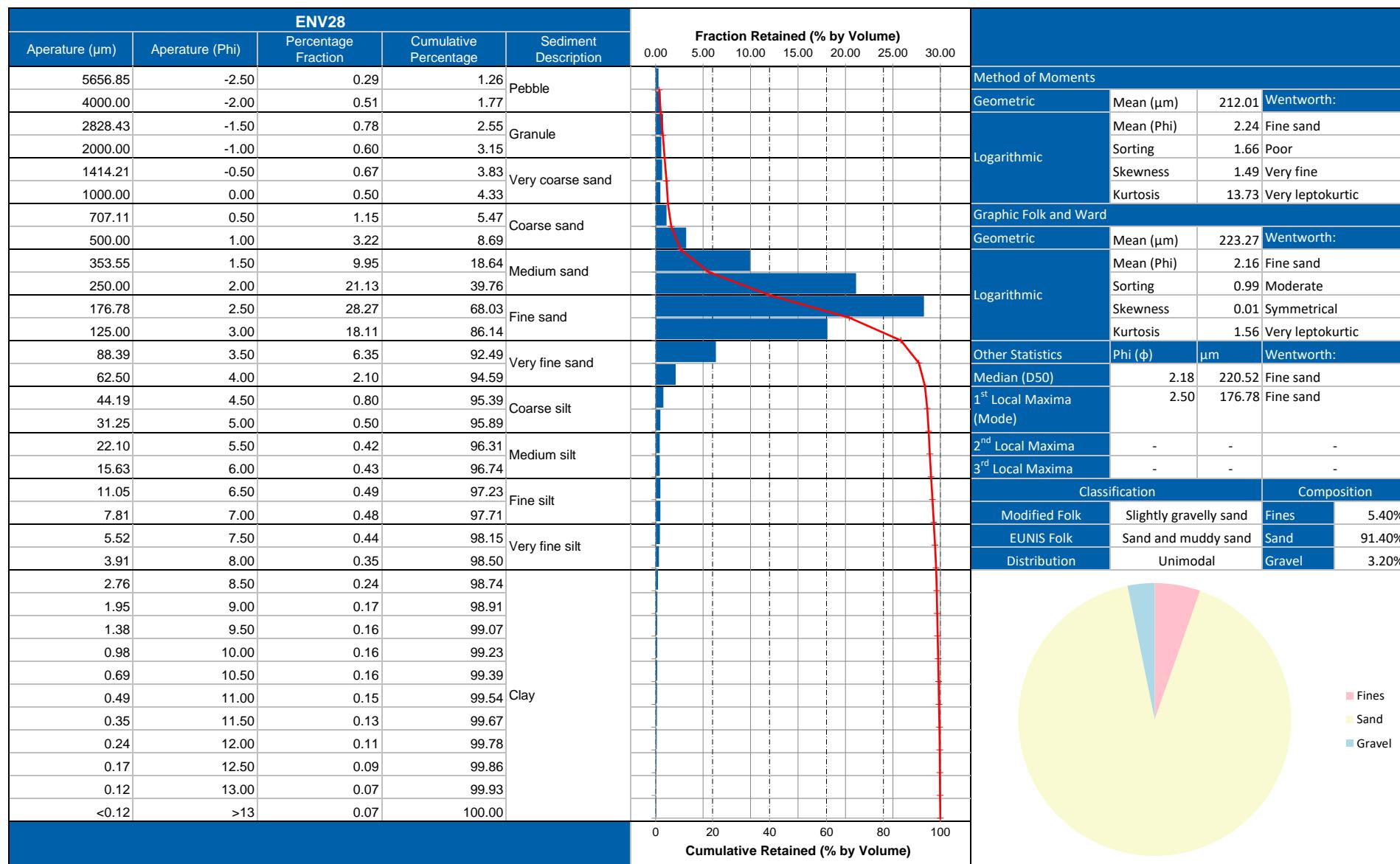
APPENDIX H PARTICLE SIZE ANALYSIS



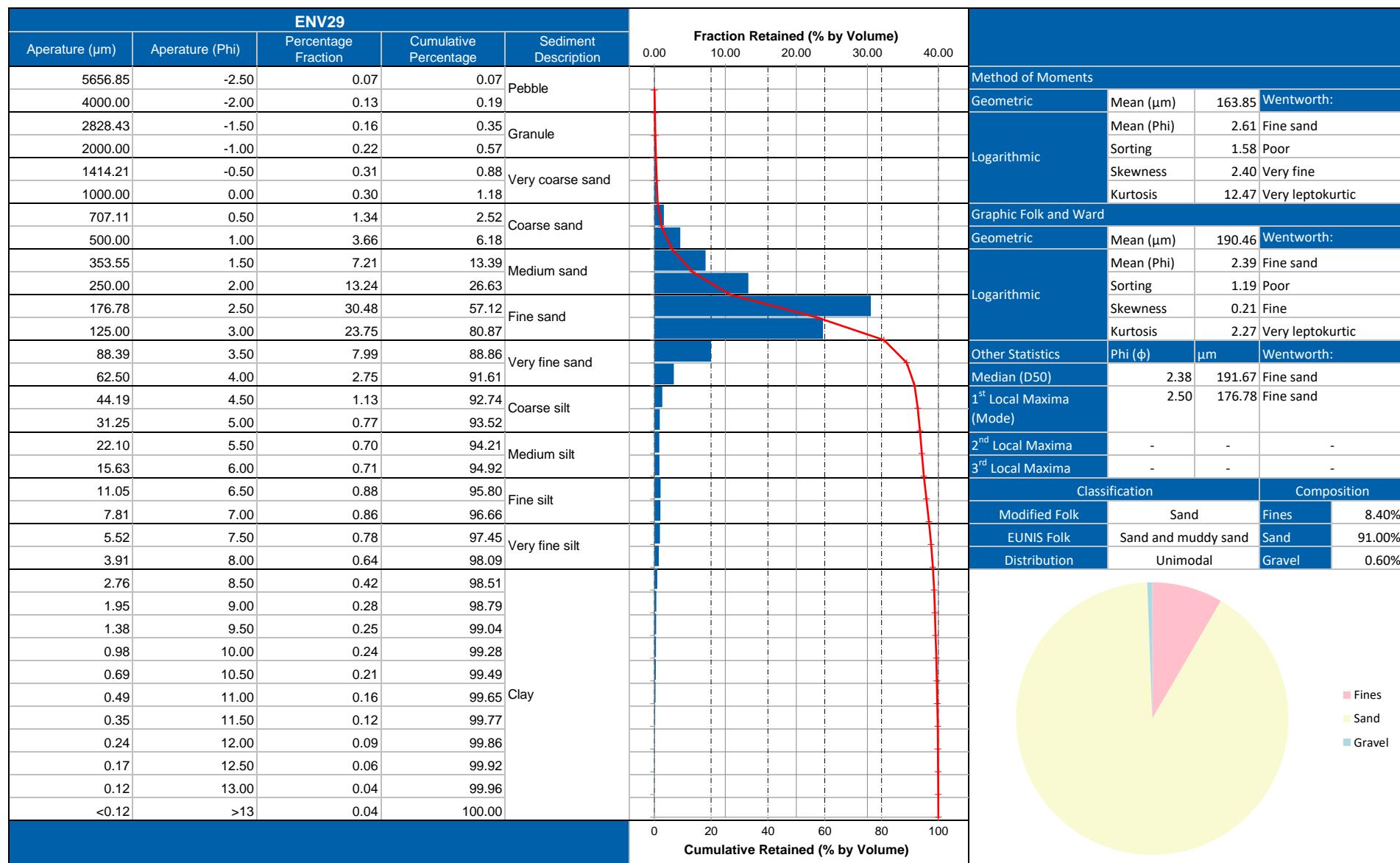
APPENDIX H PARTICLE SIZE ANALYSIS



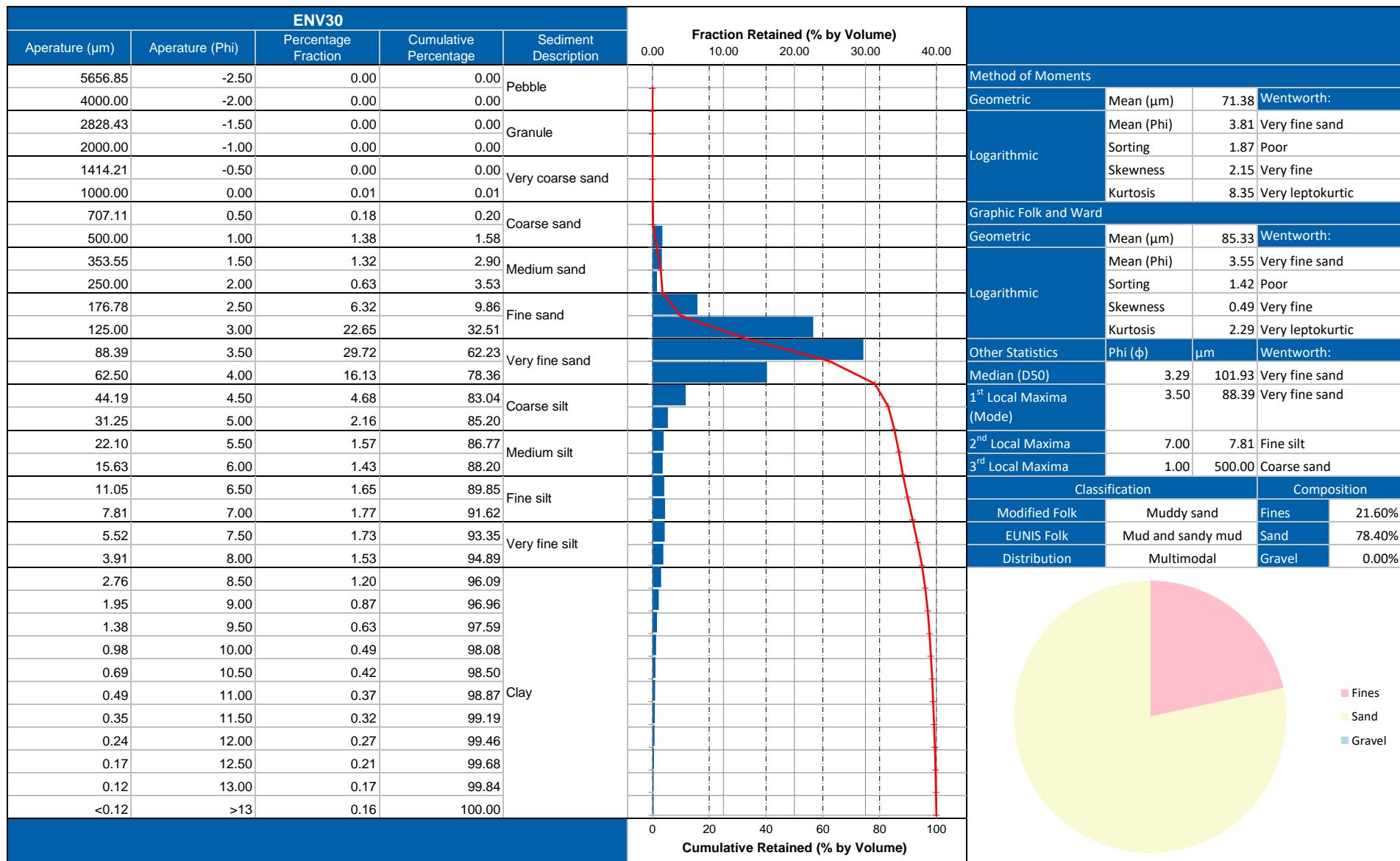
APPENDIX H PARTICLE SIZE ANALYSIS



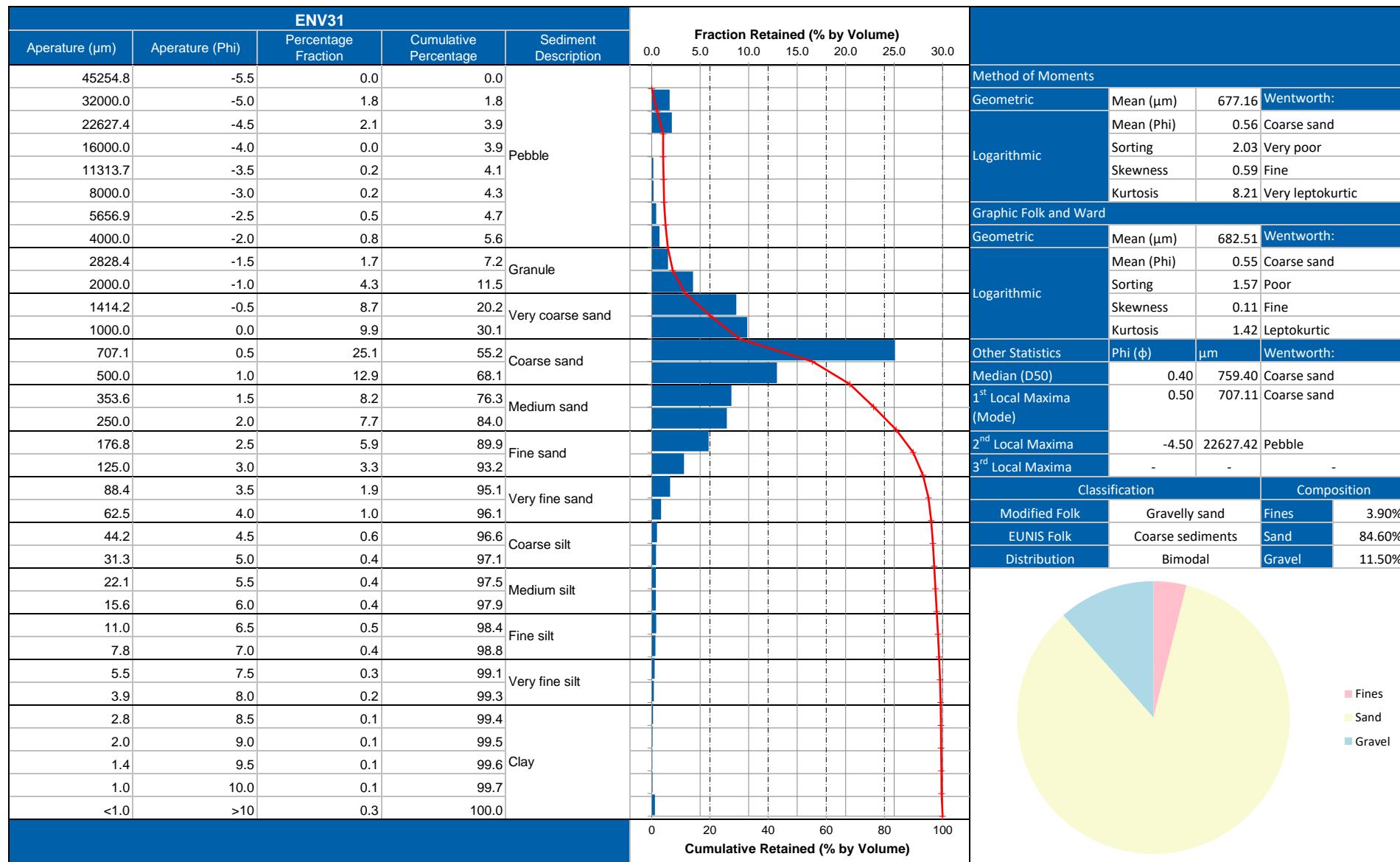
APPENDIX H PARTICLE SIZE ANALYSIS



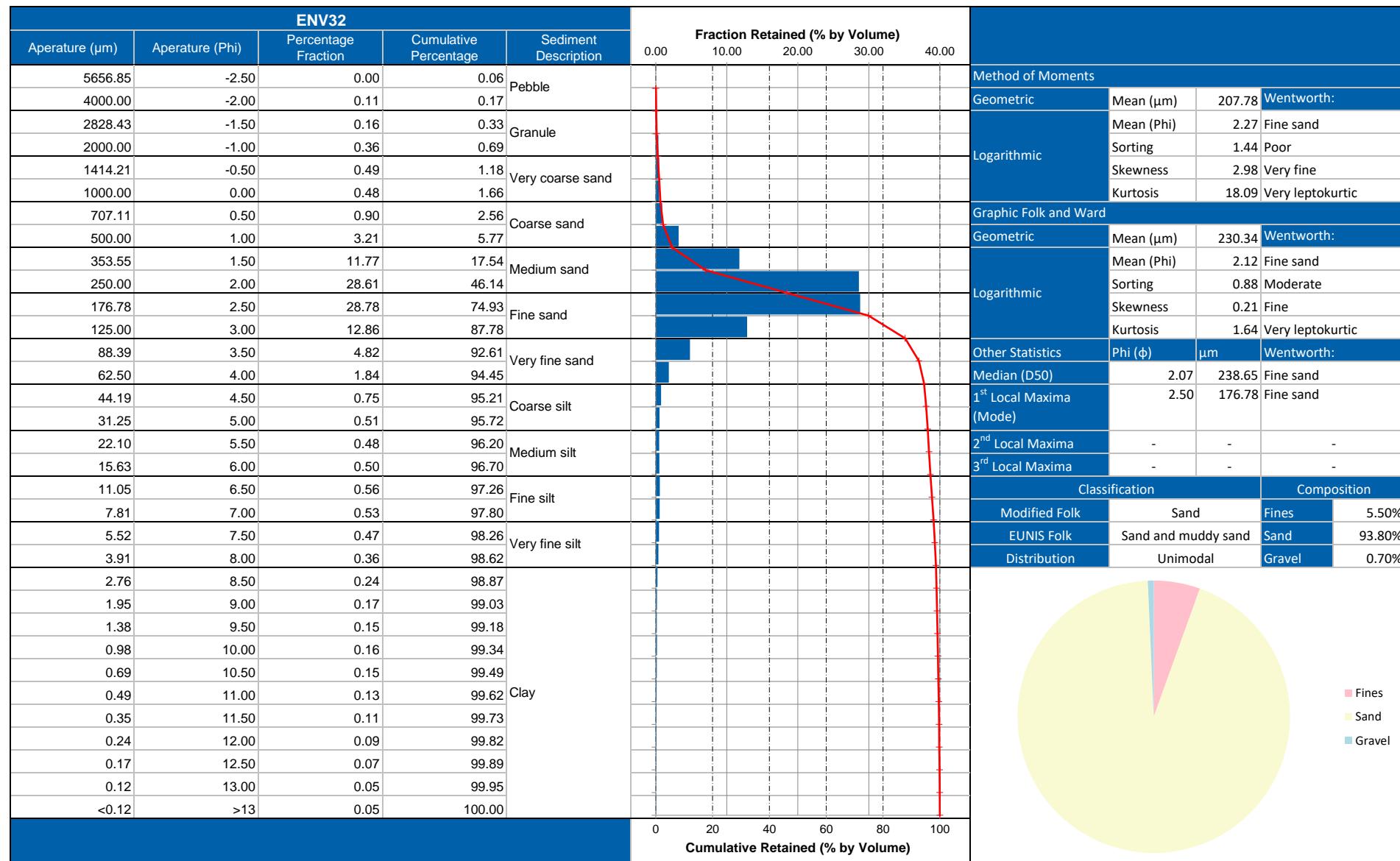
APPENDIX H PARTICLE SIZE ANALYSIS



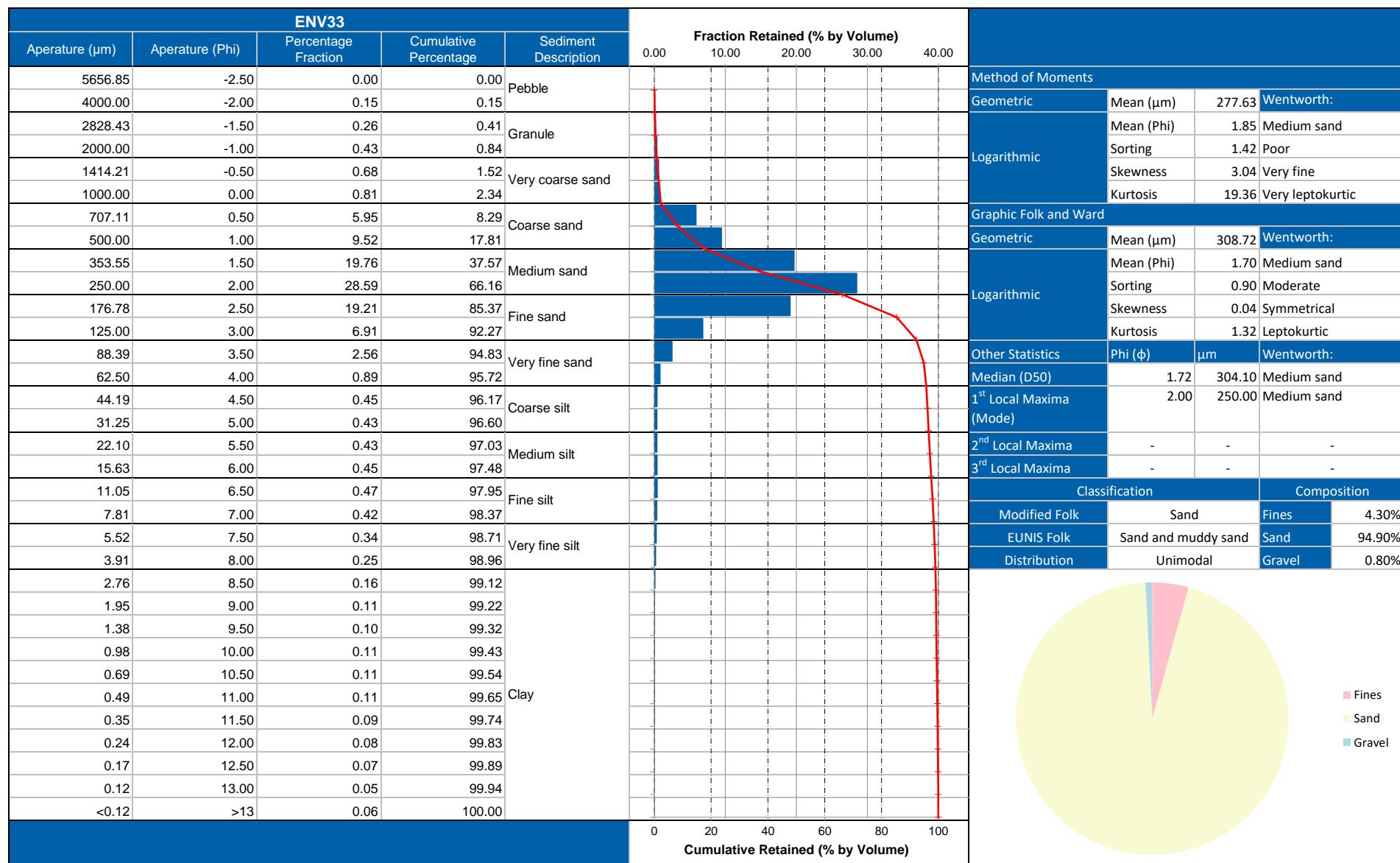
APPENDIX H PARTICLE SIZE ANALYSIS



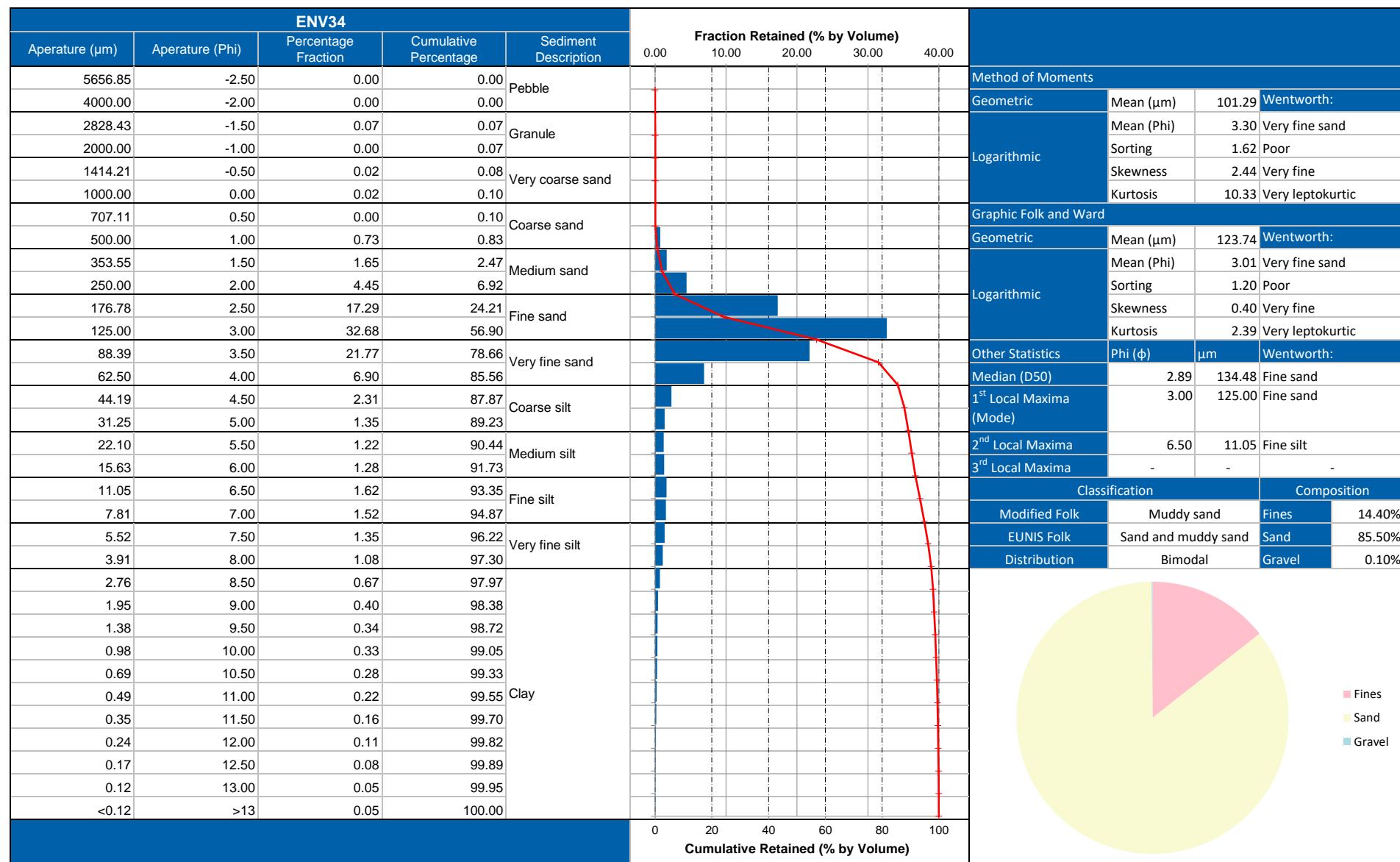
APPENDIX H PARTICLE SIZE ANALYSIS



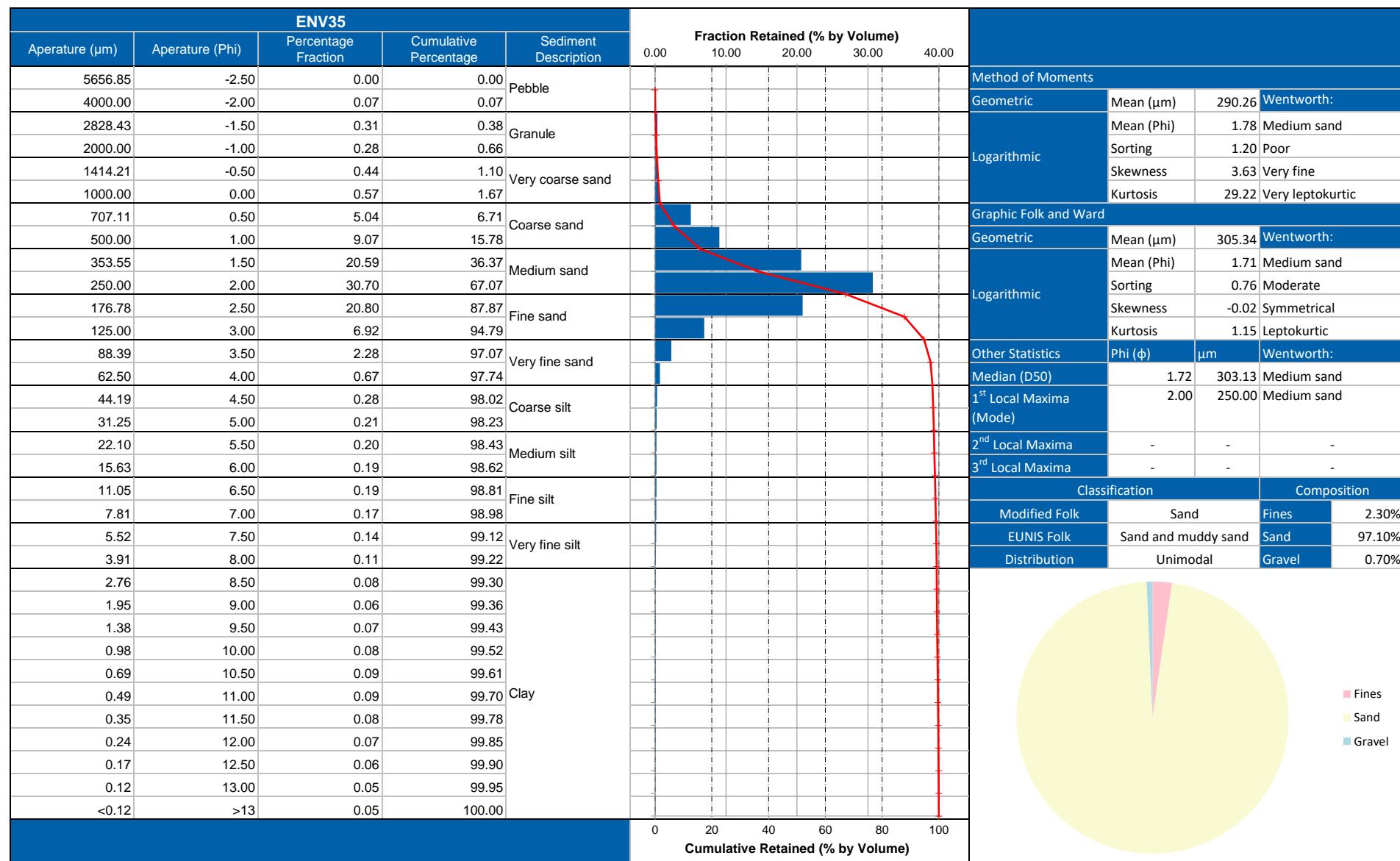
APPENDIX H PARTICLE SIZE ANALYSIS



APPENDIX H PARTICLE SIZE ANALYSIS



APPENDIX H PARTICLE SIZE ANALYSIS



Caledonia Offshore Wind Farm
5th Floor, Atria One
144 Morrison Street
Edinburgh
EH3 8EX

www.caledoniaoffshorewind.com

