

Appendix 1 - In Situ Diver Observations

Video Transect Sediment Descriptions and Species observations

Dredged Site Transects

Dredged_1

Very fine sandy MUD. Seabed was gently undulating with frequent depressions and mounds. Throughout the transect, areas of loose, dead maerl and shell fragments overlying muddy silt were observed. Whole, empty oyster, scallop and clam shells were recorded occasionally over the transect. Kelp and other red and green algae was sparse over the transect. *Ascidella aspersa* was particularly abundant throughout.

Dredged_2

Very fine SAND with occasional dead maerl. This was followed by an area of shell fragments (clam and scallop). Over the whole transect kelp was rare. Further down the line, coarse sand interspersed by shell fragments and pebbles was recorded. Fine sand interspersed by dead maerl was encountered close to the end of the line. Kelp and other red and green algae was sparse over the transect.

Dredged_3

Seafloor was gently undulating over the whole transect with evidence of depressions and mounds throughout. At the start of the line loose, dead maerl was abundant, overlying sandy GRAVEL sediment. A few individual loose pieces of live maerl were also recorded at this position. Whole empty shells (oyster, scallop and clam) were noted throughout the transect. Further along the line the sediment changed to fine SAND, with broken shell fragments, pebbles, rocks and the occasional presence of kelp and other red and green algae. Towards the end of the transect kelp and red and green algae dominated the benthos. Sediment was poorly sorted throughout.

Dredged_4

Sediment comprised predominately dead maerl and whole empty mollusc shells over coarse GRAVEL. No tracks or burrows were evident. Sediment was poorly sorted throughout. Seabed was gently undulating along the whole transect with frequent depressions and mounds (approx <30cm diameter). Sediment was arranged in waves (no bigger than 10cm high) for a small section of the transect. Dead maerl formed the peaks and whole empty shells concentrated in the troughs. Fragments of live maerl were scattered sparsely along the whole transect. There was an abundance of loose fragments of live maerl (whole fragment ~5cm in length) from the last 100m of the transect to the end of line. Live maerl was living on top of loose dead fragments. Red/green algae/seaweed and kelp occurred frequently, as did red filamentous and encrusting algae (*Phymatolithon purpureum*), attached to shells and large stones. *Ascidella aspersa* was particularly abundant.

Dredged_5

Sediment comprised shell and dead maerl over coarse GRAVEL. Burrows and tracks were not visible. Sediment was poorly sorted throughout. Red/green algae/seaweed and kelp occurred frequently, as did filamentous red and encrusting algae (*Phymatolithon purpureum*) attached to shells and large stones. Seabed was gently undulating with evidence of depressions and

mounds throughout. Loose fragments of live maerl were present throughout the transect but deemed rare. The concentration of maerl increased towards the end of line, and was most prevalent at areas of dense whole empty shell cover. Maerl branches averaged 0.5-2cm diameter with a total size of ~5-6cm.

Dredged_6

Very coarse, poorly sorted shelly GRAVEL, including dead maerl, over fine silty sand. Sediment swept into waves with maerl and red/green algae forming the peaks and empty mollusc shells concentrating in the troughs. This however formed only a small section of the entire transect (~<10%). Sediment undulating with frequent depressions and mounds comprised of finer gravely SAND, surrounded by dense shell cover. No other tracks or burrows were observed. Flat areas of the seabed were dominated by empty mollusc shells. Throughout the transect fragments of dead maerl was prevalent, with sparsely distributed, loose fragments of live maerl. Live maerl was rare. Red and green algae were frequently observed, as were hydroids, erect bryozoans, red filamentous algae and encrusting algae (*Phymatolithon purpureum*) particularly on larger rocks and empty shells. Various sea squirts and Cnidarians were present.

Dredged_7

Steep incline from 32m-12m where the sea bed topography was predominately flat. Very fine silty SAND under a veneer of gravel, dead maerl and broken/empty shell. Poorly sorted. No evidence or tracks or burrows. Kelp and red/green algae occurred sparsely throughout the transect. Large depressions in the sediment surface occurred frequently, and comprised of fine gravely SAND. Very small loose fragments of live maerl were present but deemed rare. Red filamentous algae attached to shells and large stones. Encrusting algae (*Phymatolithon purpureum*) frequently occurred on stones and empty shells as did hydroids and erect bryozoans. Area of sediment waves, dominantly dead maerl fragments with empty shells in the troughs, occurred for ~ 10-15m of the transect.

Dredged Site Transects - Species Present and Abundance (DAFOR scale)

Site Reference	Dredged_2	Dredged_1	Dredged_6	Dredged_7	Dredged_4	Dredged_5	Dredged_3
Underwater visibility	2m	3m	2m	5m	3m	4-5M	4-5m
Species							
<i>Pomatoceros lamarcki</i> (Keel worm)	Yes R	Yes R	Yes R	No	Yes F	Yes F	Yes O
<i>Spirorbis spirorbis</i> (On rocks and kelp)	No	No	No	No	Yes R	Yes R	No
<i>Membranipora membranacea</i> (Sea mat on kelp)	Yes R	Yes R	No	Yes R	Yes O	Yes O	Yes O
<i>Ulva lactuca</i> Linnaeus (Sea lettuce)	Yes R	Yes R	Yes O	Yes O	Yes O	Yes F	Yes R
<i>Petalonia fascia</i>	Yes R	No	Yes O	Yes O	Yes O	Yes F	Yes R
<i>Palmaria palmata</i>	Yes R	Yes R	Yes O	Yes O	Yes O	Yes F	Yes R
<i>Dilsea carnosa</i>	Yes R	No	Yes O	Yes O	Yes O	Yes F	Yes O
<i>Phymatolithon purpureum</i>	Yes R	No	Yes O	Yes R	Yes F	Yes F	Yes O
<i>Laminaria saccharina</i>	Yes R	Yes O	Yes R	Yes O	Yes R	Yes O	Yes O
<i>Saccorhiza polyschides</i>	Yes R	No	No	No	Yes R	Yes O	Yes O
<i>Myxicola infundibulum</i>	Yes F	Yes O	Yes O	Yes O	Yes O	Yes O	Yes O
<i>Serpula vermicularis</i>	Yes F	Yes R	No	Yes R	Yes F	Yes O	Yes R
<i>Nerophis lumbriciformis</i> (Worm Pipefish)	No	No	Yes R	No	No	No	No
<i>Syngnathus acus</i> Linnaeus (Greater Pipefish)	No	No	No	No	No	No	No
<i>Marthasterias glacialis</i> (Spiny Star fish)	Yes R	No	Yes F	Yes F	Yes R	Yes R	Yes O
<i>Asterias rubens</i> (Common star fish)	No	No	No	No	No	No	Yes R
<i>Maja squinado</i> (Spider Crab)	No	No	Yes R	No	No	Yes R	No
<i>Necora puber</i> (Velvet swimming crab)	No	Yes R	No	No	Yes R	Yes O	Yes R
<i>Pomatoschistus minutus</i> (Sand goby)	Yes R	Yes O	Yes F	Yes F	Yes F	Yes F	Yes O
<i>Ciona intestinalis</i>	Yes A	Yes A	No	Yes O	No	No	Yes F
<i>Botryllus schlosseri</i> (Star sea squirt)	Yes R	No	Yes F	Yes O	Yes F	Yes F	No
<i>Amphilectus fucorum/ Esperioopsis fucorum</i> (Hard to identify small sample)	Yes R	No	No	No	No	No	Yes R
<i>Obelia geniculata</i> (On kelp)	Yes R	Yes R	Yes R	Yes R	Yes O	Yes O	Yes R
<i>Pecten maximus</i> Scallops	No	Yes O	Yes O	Yes O	Yes F	Yes O	Yes O

<i>Phymatolithon calcareum</i> (Maerl) Live	Yes R	Yes R	Yes R	Yes R	Yes A From last 100m of Transect	Yes R	Yes R
<i>Phymatolithon calcareum</i> (Maerl) Dead	Yes O	Yes F	Yes D	Yes D	Yes A	Yes D	Yes F
Various Empty Shells (Scallop, razor, Auger, periwinkle, whelk, Clams)	Yes F	Yes F	Yes D	Yes D	Yes A	Yes A	Yes F
<i>Myxilla fimbriata</i>	No	No	No	NO	No	No	No
<i>Cancer pagurus</i>	No	Yes O	Yes F	Yes O	Yes R	Yes O	Yes O
<i>Liocarcinus depurator</i> (Harbour/swimming crab)	Yes O	Yes O	Yes O	Yes R	Yes O	Yes R	Yes R
<i>Suberites ficus</i> (sea orange)	No	Yes R	No	No	No	No	No
<i>Pagurus bernhardus</i> (common hermit crab)	Yes R	Yes O	Yes R	Yes R	Yes O	Yes O	Yes O
<i>Balanus perforatus</i> (barnacles)	NO	Yes R	Yes R	No	No	No	Yes R
<i>Clavelina lepadiformis</i> (Light bulb sea squirt)	No	No	Yes R	No	Yes R	No	No
<i>Anemonia viridis</i> (Snakelock anemone)	No	No	Yes R	No	No	No	No
<i>Ascidella aspersa</i>	Yes O	No	Yes F	Yes A	Yes O	Yes O	Yes R
<i>Sagartiogeton laceratus</i>	No	No	Yes O	Yes R	Yes R	Yes R	No
<i>Sagartia elegans</i>	No	No	Yes R	Yes R	Yes R	Yes R	Yes R
<i>Inachus phalangium</i> (Spider crab)	No	No	Yes R	Yes R	No	No	No
<i>Raja clavata</i> (Thornback ray)	No	No	Yes R	No	No	No	No
<i>Nemertesia antennina</i> (Sea beard)	No	No	No	Yes R	No	No	No
<i>Scyliorhinus canicula</i> (Dog fish)	No	No	No	No	Yes R	Yes R	No
<i>Dysidea fragilis</i>	No	No	No	No	No	No	Yes R
<i>Dendrodoa grossularia</i> (gooseberry sea squirt)	No	No	No	No	No	No	Yes R

(Epifauna and flora abundance recorded using the DAFOR scale)

Beneficial Site Transects

Ben_1

Sediment dominated by large pieces of rock and broken shell over coarse GRAVEL, poorly sorted. Abundance of green and red algae and seaweed. Erect bryozoans and hydroids as well as filamentous algae occurred on shells, large stones and kelp. No evidence of burrows or tracks. Loose fragments of dead maerl present but occasional. Moving along the line, areas of dominantly dead maerl with occasional live maerl and little seaweed occurred. Loose dead maerl fragments formed ripples orientated NE ~5-10cm in height and increasing to 25-30cm high. Sediment swept into waves by water movement; maerl formed the peaks and empty mollusc shells and stones concentrated in to the troughs. Flat areas of the seabed were frequently dominantly by broken shell (clams, scallops, razor). Towards end of line, maerl bed flattened and red and green algae and seaweed increased. Ascidians (*Ascidella aspersa*, *Botryllus schlosseri*) were observed and deemed occasional.

Ben_2

Start of line- dominated by rocks and large stones, over coarse sand, broken shell and loose fragments of dead maerl. High abundance of kelp with associated bryozoans and hydroids. Further along the line, medium grain sand and loose fragments of dead and live maerl formed gentle sediment ripples, interspersed by kelp. Moving along the line a large area of live intact maerl was encountered. At approximately 350m along the transect an area of dead clam and scallop shells (mostly whole) was recorded. The last 100m (videoed from end of line-500m back towards 400m mark) included sporadic live maerl, coarse sand and large stones.

Ben_3

Start of line- poorly sorted coarse SAND with broken shell fragments, dead maerl and sporadic live maerl. Areas of coarse sand under a veneer of whole empty shells (scallop, clam and razor clam), was observed. Occasional small patches of live maerl occurred. Over the whole transect there was occasional kelp and other red and green algae. Seabed was gently undulating or flat with no evidence of burrows, tracks, ripples or waves.

Ben_4

Sediment dominated by coarse GRAVEL with whole empty mollusc shells and frequent large stones, poorly sorted. No evidence of burrows or tracks. Hydroids and erect bryozoans attached to large stone, shells and kelp. Sea bed was gently undulating or flat. Green and red algae and seaweed were frequent along the transect. Filamentous red algae occurred in abundance on dead shells and kelp. Various types of sponge were occasionally observed (*Myxilla fimbriata*, *Amphilectus fucorum*, *Esperiopsis fucorum*), however, these were hard to identify due to the small sample observed. Loose fragments of live maerl were frequently observed with braches ranging from 0.5-3cm. Loose fragments of dead maerl were also observed frequently along the transect.

Beneficial Sites Transects - Species Present and Abundance

Site Reference	BEN_1	BEN_2	BEN_3	BEN_4
Underwater visibility	3-4m	3m	2m	2m
Species				
<i>Pomatoceros lamarcki</i> (Keel worm)	Yes O	Yes A	Yes O	YES O
<i>Spirorbis spirorbis</i> (On rocks and kelp)	Yes F	Yes F	Yes R	YES F
<i>Membranipora membranacea</i> (Sea mat on kelp)	Yes A	Yes A	Yes A	YES F
<i>Ulva lactuca</i> Linnaeus (Sea lettuce)	Yes A	Yes A	Yes O	Yes A
<i>Petalonia fascia</i>	Yes A	Yes A	Yes O	Yes A
<i>Palmaria palmata</i>	Yes A	Yes A	Yes O	Yes A
<i>Dilsea carnosa</i>	Yes F	Yes F	Yes O	Yes F
<i>Phymatolithon purpureum</i>	Yes A	Yes F	Yes O	Yes A
<i>Laminaria saccharina</i>	Yes A	Yes D	Yes F	Yes A
<i>Saccorhiza polyschides</i>	Yes A	Yes D	Yes F	Yes A
<i>Myxicola infundibulum</i>	Yes R	No	No	Yes R
<i>Serpula vermicularis</i>	Yes R	No	No	No
<i>Nerophis lumbriciformis</i> (Worm Pipefish)	Yes R	Yes R	No	No
<i>Syngnathus acus</i> Linnaeus (Greater Pipefish)	Yes R	No	No	No
<i>Marthasterias glacialis</i> (Spiny Star fish)	Yes R	No	Yes F	Yes R
<i>Asterias rubens</i> (Common star fish)	No	Yes O	Yes F	No
<i>Maja squinado</i> (Spider Crab)	No	Yes R	No	No
<i>Necora puber</i> (Velvet swimming crab)	Yes F	No	Yes R	Yes R
<i>Pomatoschistus minutus</i> (Sand goby)	Yes F	Yes O	Yes R	Yes F
<i>Ciona intestinalis</i>	Yes O	Yes O	Yes R	Yes R
<i>Botryllus schlosseri</i> (Star sea squirt)	Yes A	Yes A	Yes R	Yes F
<i>Amphilectus fucorum/ Esperioopsis fucorum</i> (Hard to identify small sample)	No	Yes O	No	Yes R
<i>Obelia geniculata</i> (On kelp)	Yes D	Yes D	Yes F	Yes A
<i>Pecten maximus</i> Scallops	Yes O	Yes O	Yes R	Yes O
<i>Phymatolithon calcareum</i> (Maerl) Live	Yes A	Yes F	Yes F	Yes F
<i>Phymatolithon calcareum</i> (Maerl) Dead	Yes A	Yes A	Yes O	Yes R
Various Empty Shells (Scallop, razor, Auger, periwinkle, whelk, Clams)	Yes D	Yes A	Yes F	Yes D
<i>Myxilla fimbriata</i>	No	No	No	Yes O
<i>Cancer pagurus</i>	No	No	Yes R	Yes R
<i>Liocarcinus depurator</i> (Harbour/swimming crab)	No	No	No	No

(Epifauna and flora abundance recorded using the DAFOR scale)

Sediment Core Site Descriptions

Beneficial Site Diver Observations

Sediment Description and Species Abundance at Beneficial Site Sediment Core Locations

Sediment Core Site Reference	Ben_Core_1	Ben_Core_2	Ben_core_3	Ben_core_4
Underwater Visibility	3-4m	4-5m	3-4m	2-3m
Species Present				
<i>Pomatoceros lamarcki</i> (Keel worm)	Yes R		Yes R	Yes R
<i>Spirorbis spirorbis</i> (On rocks and kelp)				
<i>Membranipora membranacea</i> (Sea mat on kelp)		Yes F	Yes F	Yes F
Red/Green Algae	Yes R	Yes A	Yes F	Yes F
<i>Laminaria saccharina</i>		Yes A	Yes F	Yes F
<i>Saccorhiza polyschides</i>		Yes A		Yes F
<i>Myxicola infundibulum</i>				
<i>Serpula vermicularis</i>				
<i>Nerophis lumbriciformis</i> (Worm Pipefish)	Yes R			
<i>Syngnathus acus Linnaeus</i> (Greater Pipefish)	Yes R			
<i>Marthasterias glacialis</i> (Spiny Star fish)				
<i>Asterias rubens</i> (Common star fish)				
<i>Maja squinado</i> (Spider Crab)				
<i>Necora puber</i> (Velvet swimming crab)				
<i>Pomatoschistus minutus</i> (Sand goby)	Yes F		Yes R	Yes O
<i>Ciona intestinalis</i>				
<i>Botryllus schlosseri</i> (Star sea squirt)		Yes R		
<i>Amphilectus fucorum/ Esperioipsis fucorum</i> (Hard to identify small sample)				
<i>Obelia geniculata</i> (On kelp)		Yes F		Yes O
<i>Pecten maximus</i> Scallops	Yes R			Yes R
<i>Phymatolithon calcareum</i> (Maerl) Live	Yes R		Yes R	Yes R
<i>Phymatolithon calcareum</i> (Maerl) Dead	Yes D	Yes O	Yes A	Yes R
Various Empty Shells (Scallop, razor, Auger, periwinkle, whelk, Clams)	Yes O	Yes R	Yes O	Yes A
<i>Myxilla fimbriata</i>	Yes R			
<i>Cancer pagurus</i>				Yes R

<i>Liocarcinus depurator</i> (Harbour/swimming crab)				
<i>Suberites ficus</i> (sea orange)				
<i>Pagurus bernhardus</i> (common hermit crab)			Yes R	
<i>Balanus perforatus</i> (barnacles)		Yes O		
<i>Clavelina lepadiformis</i> (Light bulb sea squirt)				
<i>Anemonia viridis</i> (snakelock anemone)				
<i>Ascidella aspersa</i>				
<i>Sagartiogeton laceratus</i>				
<i>Sagartia elegans</i>				
<i>Inachus phalangium</i> (Spider crab)				
<i>Raja clavata</i> (Thornback ray)				
<i>Nemertesia antennina</i> (Sea beard)				
<i>Scyliorhinus canicula</i> (Dog fish)				
<i>Dysidea fragilis</i>				
<i>Dendrodoa grossularia</i> (gooseberry seas squirt)				
<i>Phymatolithon purpureum</i>	Yes F	Yes O	Yes O	Yes O
Whelk			Yes O	
Sediment Description	Sediment waves comprised of crushed dead maerl fragments over sandy GRAVEL. Large empty mollusc shells concentrated in the troughs. No evidence of tracks or burrows. Sediment moderately well sorted.	Seabed dominated by kelp with some patches of sand, gravel and broken shell fragments. No evidence of tracks or burrows.	Gently undulating seabed comprised of dead maerl fragments over sandy GRAVEL. Empty whole shells and broken fragments (clam and scallop). Sparsely distributed loose live maerl fragments.	Coarse GRAVEL comprised predominately broken shell. Empty whole mollusc shells occurred in abundance on the sediment surface. Sediment poorly sorted with no visible burrow or tracks. Both dead and live maerl fragments occurred but were deemed rare.

Repeat Site Diver Observations

Sediment Description and Species Abundance at Repeat Site Sediment Core Locations

Sediment Core Site Reference	RPT_4	RPT_5	RPT_6	RPT_1	RPT_3	RPT_2
Underwater Visibility	4-5m	3m	3-4m	4-5m	3m	3-4m
Species Present						
<i>Pomatoceros lamarcki</i> (Keel worm)	Yes O	Yes O		Yes F		Yes O
<i>Spirorbis spirorbis</i> (On rocks and kelp)						
<i>Membranipora membranacea</i> (Sea mat on kelp)	Yes R				Yes R	
Red/Green Algae	Yes O	Yes O	Yes F	Yes R	Yes O	Yes F
<i>Laminaria saccharina</i>	Yes R			Yes O	Yes R	Yes R
<i>Saccorhiza polyschides</i>	Yes R					
<i>Myxicola infundibulum</i>						
<i>Serpula vermicularis</i>						
<i>Nerophis lumbriciformis</i> (Worm Pipefish)						
<i>Syngnathus acus</i> Linnaeus (Greater Pipefish)						
<i>Marthasterias glacialis</i> (Spiny Star fish)						Yes R
<i>Asterias rubens</i> (Common star fish)						
<i>Maja squinado</i> (Spider Crab)						
<i>Necora puber</i> (Velvet swimming crab)						
<i>Pomatoschistus minutus</i> (Sand goby)	Yes F	Yes F	Yes O	Yes F	Yes F	Yes F
<i>Ciona intestinalis</i>				Yes R	Yes A	
<i>Botryllus schlosseri</i> (Star sea squirt)						

<i>Amphilectus fucorum/ Esperioopsis fucorum</i> (Hard to identify small sample)						
<i>Obelia geniculata</i> (On kelp)	Yes R			Yes O	Yes R	Yes O
<i>Pecten maximus</i> Scallops				Yes R		
<i>Phymatolithon calcareum</i> (Maerl) Live	Yes R	Yes O	Yes R	Yes R	Yes R	Yes R
<i>Phymatolithon calcareum</i> (Maerl) Dead	Yes A	Yes A	Yes D	Yes A	Yes D	Yes A
Various Empty Shells (Scallop, razor, Auger, periwinkle, whelk, Clams)	Yes A	Yes F	Yes R	Yes A	Yes A	Yes O
<i>Myxilla fimbriata</i>						
<i>Cancer pagurus</i>						
<i>Liocarcinus depurator</i> (Harbour/swimming crab)				Yes O		
<i>Suberites ficus</i> (sea orange)						
<i>Pagurus bernhardus</i> (common hermit crab)		Yes O	Yes R	Yes R		
<i>Balanus perforatus</i> (barnacles)						
<i>Clavelina lepadiformis</i> (Light bulb sea squirt)						
<i>Anemonia viridis</i> (snakelock anemone)						
<i>Ascidella aspersa</i>	Yes R					
<i>Sagartiogeton laceratus</i>						
<i>Sagartia elegans</i>						
<i>Inachus phalangium</i> (Spider crab)						
<i>Raja clavata</i> (Thornback ray)						
<i>Nemertesia antennina</i> (Sea beard)						
<i>Scyliorhinus canicula</i> (Dog fish)						
<i>Dysidea fragilis</i>						
<i>Dendrodoa grossularia</i> (gooseberry seas squirt)						
<i>Phymatolithon purpureum</i>	Yes O	Yes O	Yes O	Yes O	Yes O	Yes R
Whelk			Yes O			

<p>Sediment Description</p>	<p>Sediment waves comprised of dominantly dead maerl broken shell and gravel with large empty mollusc shells concentrated in the troughs. Red/green algae present. No evidence of burrows or tracks. Poorly sorted.</p>	<p>Sediment waves (~30cm) comprised predominantly of dead maerl, gravel and sandy SILT- poorly sorted. No evidence of mounds or tracks. Red/ green algae occurred occasionally.</p>	<p>Sediment waves comprised of dominantly dead maerl broken shell and gravel with large empty mollusc shells concentrated in the troughs. Red/green algae present. No evidence of burrows or tracks. Poorly sorted.</p>	<p>Sediment comprised of predominantly dead maerl with whole empty shells (generally clam shells) overlying the maerl. Flat seabed, no evidence of mounds or tracks. Occasional kelp.</p>	<p>Sediment waves comprised of dominantly dead maerl broken shell and gravel with large empty mollusc shells concentrated in the troughs. Red/green algae present. No evidence of burrows or tracks. Poorly sorted. Abundance of <i>Ascidella aspersa</i>.</p>	<p>Sediment waves comprised of dominantly dead maerl broken shell and sand with large empty mollusc shells concentrated in the troughs. Red/green algae present. Depressions and mounds present. Poorly sorted.</p>
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Dredged Site Diver Observations

Sediment Description and Species Abundance at Dredged Site Sediment Core Locations

Sediment Core Site Reference	CS_7	CS_8	CS_10	CS_6	CS_5	CS_4	CS_9	CS_3	CS_2	CS_1
Underwater Visibility	3m	3m	1m	3m	2m	2m	3m	3m	2-3m	2m
Species Present										
<i>Pomatoceros lamarcki</i> (Keel worm)	Yes F	Yes O	Yes O	Yes F	Yes F	Yes O	Yes F	Yes F	Yes F	Yes R
<i>Spirorbis spirorbis</i> (On rocks and kelp)										
<i>Membranipora membranacea</i> (Sea mat on kelp)	Yes R			Yes R				Yes R		
Red/Green Algae	Yes F		Yes R	Yes O		Yes O	Yes F	Yes F		
<i>Laminaria saccharina</i>	Yes R		Yes R	Yes R	Yes R	Yes R	Yes R	Yes O		
<i>Saccorhiza polyschides</i>	Yes R									
<i>Myxicola infundibulum</i>							Yes A	Yes R		Yes O
<i>Serpula vermicularis</i>						Yes R	Yes O	Yes R		
<i>Nerophis lumbriciformis</i> (Worm Pipefish)										
<i>Syngnathus acus Linnaeus</i> (Greater Pipefish)										
<i>Marthasterias glacialis</i> (Spiny Star fish)			Yes O				Yes R	Yes R		
<i>Asterias rubens</i> (Common star fish)										
<i>Maja squinado</i> (Spider Crab)										
<i>Necora puber</i> (Velvet swimming crab)						Yes R				
<i>Pomatoschistus minutus</i> (Sand goby)	Yes F	Yes O	Yes O	Yes F	Yes F	Yes F	Yes F	Yes F		Yes O
<i>Ciona intestinalis</i>										
<i>Botryllus schlosseri</i> (Star sea squirt)	Yes R				Yes R			Yes R		
<i>Amphilectus fucorum/ Esperioopsis fucorum</i> (Hard to identify small sample)								Yes R		Yes R
<i>Obelia geniculata</i> (On kelp)	Yes R		Yes R							

<i>Pecten maximus</i> Scallops				Yes R						Yes R
<i>Phymatolithon calcareum</i> (Maerl) Live	Yes O		Yes O	Yes R	Yes R	Yes R	Yes A Tiny Fragments	Yes A		Yes O
<i>Phymatolithon calcareum</i> (Maerl) Dead	Yes A		Yes A	Yes D	Yes D	Yes D	Yes D	Yes F	Yes F	Yes A
Various Empty Shells (Scallop, razor, Auger, periwinkle, whelk, Clams)	Yes F	Yes F	Yes A	Yes A	Yes A	Yes F	Yes A	Yes A	Yes A	Yes F
<i>Myxilla fimbriata</i>										
<i>Cancer pagurus</i>										
<i>Liocarcinus depurator</i> (Harbour/swimming crab)						Yes R				
<i>Suberites ficus</i> (sea orange)										Yes R
<i>Pagurus bernhardus</i> (common hermit crab)					Yes R		Yes R			
<i>Balanus perforatus</i> (barnacles)										
<i>Clavelina lepadiformis</i> (Light bulb sea squirt)										
<i>Anemonia viridis</i> (snakelock anemone)			Yes O			Yes R				
<i>Ascidrella aspersa</i>	Yes O		Yes O				Yes O	Yes A	Yes O	Yes A
<i>Sagartiogeton laceratus</i>										
<i>Sagartia elegans</i>										
<i>Inachus phalangium</i> (Spider crab)										
<i>Raja clavata</i> (Thornback ray)										
<i>Nemertesia antennina</i> (Sea beard)										
<i>Scyliorhinus canicula</i> (Dog fish)										
<i>Dysidea fragilis</i>										
<i>Dendrodoa grossularia</i> (gooseberry sea squirt)										
<i>Phymatolithon purpureum</i>	Yes F	Yes O	Yes F	Yes O	Yes F	Yes F	Yes F	Yes O		Yes R
Whelk										
<i>Crepidula fornicata</i> (Slipper Limpet)		Yes R								
<i>Dahlia anemone</i>			Yes O							

Sediment Descriptions for Dredged Site Core Locations

Sediment Core Site Reference	Sediment Description
CS_7	Sediment comprised predominantly of dead maerl overlying sand and gravel. Whole and broken empty shells present. Some large stones occasionally present. Poorly sorted. Evidence of depressions and mounds. Red/green algae were recorded.
CS_8	Sediment comprised predominantly dead maerl and gravel. Whole and broken empty shells present. Poorly sorted. Evidence of depressions and mounds. Some red/green algae present.
CS_10	Abundance of dead maerl with sufficient loose fragments of live maerl not to core. 3-5cm of maerl over sandy gravel and broken shell. Small areas of compact empty mollusc shells. No evidence of burrows or tracks, poorly sorted.
CS_6	Sediment waves comprised of dominantly dead maerl broken shell and gravel with large empty mollusc shells concentrated in the troughs. Red/green algae present. No evidence of burrows or tracks. Poorly sorted.
CS_5	Sediment comprised predominantly dead maerl and gravel. Whole and broken empty shells present. Poorly sorted. No evidence of burrows or tracks, flat seabed. Some red/green algae present.
CS_4	Sediment comprised predominantly dead maerl overlying sand and gravel. Whole and broken empty shells present, with occasional large stones. Generally flat seabed. Poorly sorted. Red/green algae were recorded.
CS_9	Sediment comprised predominantly dead maerl and gravel. Small fragments of loose maerl were abundant. Whole and broken empty shells present. Poorly sorted. No evidence of burrows or tracks, flat seabed. Red/green algae frequent.
CS_3	Sediment comprised predominantly dead maerl overlying sandy gravel. Abundance of whole and broken shells. Generally flat seabed. Poorly sorted. Red/green algae were recorded.
CS_2	Seabed flat with an abundance of large rocks, stones and shells over fine silty sand, poorly sorted. Loose fragments of dead maerl were frequent and red/green algae rare. Large depressions visible (~30cm diameter).
CS_1	Sediment comprised dominantly loose dead maerl fragments and broken shell over fine silty sand, poorly sorted. Flat seabed with no obvious tracks or burrows.