
เพลงก็ต่อหน้าสัตว์

Report No. : 2023-5007085 / 004-1 (page 1 of 3)

Issued date: August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station 5 (Northwest of MOPU at 500 m)
COORDINATE (WGS 84) : 07° 56' 58.75" N, 101° 22' 48.79" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 07:15-09:13 hrs.

DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Foraminiferida	
<i>Globigerina</i> sp.	45
Subclass Actinopoda	
Order Radiolarida	
Suborder Spumellaria	
<i>Acanthosphaera insignis</i>	149
Suborder Nassellaria	
<i>Lithomelissa monoceras</i>	-
Suborder Acantharia	
<i>Acanthometron</i> sp.	90
<i>Pleuraspis costata</i> .	88
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis radix</i>	34
<i>T. tocantinensis</i>	87
Family Codonellopsidae	
<i>Codonellopsis morchella</i>	-
Family Tintinnidae	
<i>Amphorellopsis acuta</i>	-
Subclass Peritricha	
Order Peritrichida	
<i>Vorticella</i> spp.	-
Phylum Cnidaria	
Class Hydrozoa	
Unidentified Hydrozoa	-
Order Siphonophora	
Suborder Calycophorae	
Family Diphyidae	
<i>Diphyes</i> spp.	25
<i>Lensia</i> spp.	-
Phylum Chaetognatha	
Class Sagittoidae	
Family Sagittidae	
<i>Sagitta</i> spp.	-

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DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea	
Subclass Copepoda	
Copepod nauplius	48
Order Calanoida	
Calanoid copepodid	124
Family Calanidae	
<i>Calanus pauper</i>	49
Family Centropagidae	
<i>Centropages orsinii</i>	43
Family Temoridae	
<i>Temora discaudata</i>	45
Family Candaciidae	
<i>Candacia discaudata</i>	-
Family Pontellidae	
<i>Labidocera acuta</i>	-
Family Acaridae	
<i>Acartia erythraea</i>	75
Order Cyclopoida	-
Family Oithonidae	
<i>Oithona</i> spp.	160
Family Corycaeidae	
<i>Corycaeus robusta</i>	-
Family Sapphirinidae	
<i>Sapphirina metallina</i>	28
Subclass Malacostraca	
Superorder Peracarida	
Order Amphipoda	
Unidentified amphipods	38
Superorder Hoplocarida	
Order Stomatopoda	
Alima larvae	28
Superorder Eucarida	
Order Decapoda	
Suborder Natantia	
<i>Lucifer</i> spp.	-
Suborder Reptantia	
Pagurid larvae	-
Brachyuran zoea	112

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DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea (Cont'd)	
Subclass Ostracode	
Order Myodocopa	
Family Conchoeciidae	
<i>Euconchoecia</i> spp.	-
Phylum Mollusca	
Class Gastropoda	
Gastropod larvae	17
Subclass Prosobranchia	
Order Mesogastropoda	
Suborder Heteropoda	
Family Carinariidae	
<i>Carinaria</i> sp.	-
Phylum Echinodermata	
Class Ophiuroidea	
Ophiopluteus larvae	-
Phylum Chordata	
Subphylum Urochordata	
Class Larvacea	
Order Urochorda	
Family Oikopleuridae	
<i>Oikopleura</i> spp.	74
Subphylum Vertebrata	
Class Pisces	
Family Engraulidae	
Unidentified Engraulidae	-
Family Gobiidae	
Unidentified Gobiidae	-
Total Class of Zooplankton	6
Total Density of Zooplankton	1,359

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Technical Manager

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Report No. : 2023-5007085 / 004-2 (page 1 of 3)

Issued date: August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED

CONTACT :

ADDRESS :

Tel. 02-000-0700

E-mail address: nattee.s@valeuraenergy.com

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification

SAMPLING DATE : June 5, 2023

SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water

SAMPLING TIME : 10:00-11:15 hrs.

SAMPLING LOCATION : Station 6 (Southeast of MOPU at 500 m)

COORDINATE (WGS 84) : 07° 56' 33.67" N, 101° 23' 9.56" E

DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Foraminiferida	
<i>Globigerina</i> sp.	34
Subclass Actinopoda	
Order Radiolarida	
Suborder Spumellaria	
<i>Acanthosphaera insignis</i>	157
Suborder Nasselaria	
<i>Lithomelissa monoceras</i>	23
Suborder Acantharia	
<i>Acanthometron</i> sp.	28
<i>Pleuraspis costata</i> .	44
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis radix</i>	43
<i>T. tocatinensis</i>	-
Family Codonellopsidae	
<i>Codonellopsis morchella</i>	15
Family Tintinnidae	
<i>Amphorellopsis acuta</i>	-
Subclass Peritricha	
Order Peritrichida	
<i>Vorticella</i> spp.	33
Phylum Cnidaria	
Class Hydrozoa	
Unidentified Hydrozoa	-
Order Siphonophora	
Suborder Calycophorae	
Family Diphyidae	
<i>Diphyes</i> spp.	65
<i>Lensia</i> spp.	46
Phylum Chaetognatha	
Class Sagittoidae	
Family Sagittidae	
<i>Sagitta</i> spp.	120

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DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea	
Subclass Copepoda	
Copepod nauplius	102
Order Calanoida	
Calanoid copepodid	130
Family Calanidae	
<i>Calanus pauper</i>	-
Family Centropagidae	
<i>Centropages orsinii</i>	-
Family Temoridae	
<i>Temora discaudata</i>	64
Family Candaciidae	
<i>Candacia discaudata</i>	43
Family Pontellidae	
<i>Labidocera acuta</i>	44
Family Acaridae	
<i>Acartia erythraea</i>	111
Order Cyclopoida	
Family Oithonidae	
<i>Oithona</i> spp.	170
Family Corycaeidae	
<i>Corycaeus robusta</i>	-
Family Sapphirinidae	
<i>Sapphirina metallina</i>	-
Subclass Malacostraca	
Superorder Peracarida	
Order Amphipoda	
Unidentified amphipods	-
Superorder Hoplocarida	
Order Stomatopoda	
Alima larvae	-
Superorder Eucarida	
Order Decapoda	
Suborder Natantia	
<i>Lucifer</i> spp.	-
Suborder Reptantia	
Pagurid larvae	-
Brachyuran zoea	-

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SAMPLING TIME : 10:00-11:15 hrs.
DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea (Cont'd)	
Subclass Ostracode	
Order Myodocopa	
Family Conchoeciidae	
<i>Euconchoecia</i> spp.	-
Phylum Mollusca	
Class Gastropoda	
Gastropod larvae	51
Subclass Prosobranchia	
Order Mesogastropoda	
Suborder Heteropoda	
Family Carinariidae	
<i>Carinaria</i> sp.	-
Phylum Echinodermata	
Class Ophiuroidea	
Ophiopluteus larvae	-
Phylum Chordata	
Subphylum Urochordata	
Class Larvacea	
Order Urochorda	
Family Oikopleuridae	
<i>Oikopleura</i> spp.	74
Subphylum Vertebrata	
Class Pisces	
Family Engraulidae	
Unidentified Engraulidae	-
Family Gobiidae	
Unidentified Gobiidae	-
Total Class of Zooplankton	7
Total Density of Zooplankton	1,272

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Technical Manager

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CONTACT :
ADDRESS :

Tel: 02-000-0700 E-mail: address@valeuraenergy.com

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station F1 (Northwest of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 57.93" N, 101° 23' 52.01" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 14:30-16:45 hrs.
DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Foraminiferida	
<i>Globigerina</i> sp.	33
Subclass Actinopoda	
Order Radiolarida	
Suborder Spumellaria	
<i>Acanthosphaera insignis</i>	169
Suborder Nasselaria	
<i>Lithomelissa monoceras</i>	22
Suborder Acantharia	
<i>Acanthometron</i> sp.	135
<i>Pleuraspis costata</i> .	44
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis radix</i>	-
<i>T. tocaninensis</i>	-
Family Codonellopsidae	
<i>Codonellopsis morchella</i>	54
Family Tintinnidae	
<i>Amphorellopsis acuta</i>	25
Subclass Peritricha	
Order Peritrichida	
<i>Vorticella</i> spp.	-
Phylum Cnidaria	
Class Hydrozoa	
Unidentified Hydrozoa	48
Order Siphonophora	
Suborder Calycophorae	
Family Diphyidae	
<i>Diphyes</i> spp.	45
<i>Lensia</i> spp.	-
Phylum Chaetognatha	
Class Sagittoidae	
Family Sagittidae	
<i>Sagitta</i> spp.	89

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DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea	
Subclass Copepoda	
Copepod nauplius	108
Order Calanoida	
Calanoid copepodid	-
Family Calanidae	
<i>Calanus pauper</i>	92
Family Centropagidae	
<i>Centropages orsinii</i>	82
Family Temoridae	
<i>Temora discaudata</i>	52
Family Candaciidae	
<i>Candacia discaudata</i>	-
Family Pontellidae	
<i>Labidocera acuta</i>	33
Family Acaridae	
<i>Acartia erythraea</i>	22
Order Cyclopoida	
Family Oithonidae	
<i>Oithona</i> spp.	35
Family Corycaeidae	
<i>Corycaeus robusta</i>	-
Family Sapphirinidae	
<i>Sapphirina metallina</i>	68
Subclass Malacostraca	
Superorder Peracarida	
Order Amphipoda	
Unidentified amphipods	53
Superorder Hoplocarida	
Order Stomatopoda	
Alima larvae	36
Superorder Eucarida	
Order Decapoda	
Suborder Natantia	
<i>Lucifer</i> spp.	59
Suborder Reptantia	
Pagurid larvae	33
Brachyuran zoea	-

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Class Crustacea (Cont'd)	
Subclass Ostracode	
Order Myodocopa	
Family Conchoeciidae	
<i>Euconchoecia</i> spp.	26
Phylum Mollusca	
Class Gastropoda	
Gastropod larvae	48
Subclass Prosobranchia	
Order Mesogastropoda	
Suborder Heteropoda	
Family Carinariidae	
<i>Carinaria</i> sp.	35
Phylum Echinodermata	
Class Ophiuroidea	
Ophiopluteus larvae	-
Phylum Chordata	
Subphylum Urochordata	
Class Larvacea	
Order Urochorda	
Family Oikopleuridae	
<i>Oikopleura</i> spp.	98
Subphylum Vertebrata	
Class Pisces	
Family Engraulidae	
Unidentified Engraulidae	5
Family Gobiidae	
Unidentified Gobiidae	14
Total Class of Zooplankton (Class)	8
Total Density of Zooplankton (Individuals/m³)	1,563

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Technical Manager

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Report No. : 2023-5007085 / 004-4 (page 1 of 3)

Issued date: August 9, 2023

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CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station F2 (Southeast of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 33.25" N, 101° 24' 13.28" E
SAMPLING DATE : June 4, 2023
SAMPLING TIME : 09:40-14:00 hrs.
DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Foraminiferida	
<i>Globigerina</i> sp.	17
Subclass Actinopoda	
Order Radiolarida	
Suborder Spumellaria	
<i>Acanthosphaera insignis</i>	141
Suborder Nasselaria	
<i>Lithomelissa monoceras</i>	66
Suborder Acantharia	
<i>Acanthometron</i> sp.	142
<i>Pleuraspis costata</i> .	28
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis radix</i>	46
<i>T. tocaninensis</i>	71
Family Codonellopsidae	
<i>Codonellopsis morchella</i>	54
Family Tintinnidae	
<i>Amphorellopsis acuta</i>	34
Subclass Peritricha	
Order Peritrichida	
<i>Vorticella</i> spp.	53
Phylum Cnidaria	
Class Hydrozoa	
Unidentified Hydrozoa	37
Order Siphonophora	
Suborder Calyophorae	
Family Diphyidae	
<i>Diphyes</i> spp.	15
<i>Lensia</i> spp.	31
Phylum Chaetognatha	
Class Sagittoidae	
Family Sagittidae	
<i>Sagitta</i> spp.	112

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SAMPLING TIME : 09:40-14:00 hrs.
DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea	
Subclass Copepoda	
Copepod nauplius	90
Order Calanoida	
Calanoid copepodid	106
Family Calanidae	
<i>Calanus pauper</i>	46
Family Centropagidae	
<i>Centropages orsinii</i>	28
Family Temoridae	
<i>Temora discaudata</i>	63
Family Candaciidae	
<i>Candacia discaudata</i>	-
Family Pontellidae	
<i>Labidocera acuta</i>	-
Family Acaridae	
<i>Acartia erythraea</i>	-
Order Cyclopoida	
Family Oithonidae	
<i>Oithona</i> spp.	113
Family Corycaeidae	
<i>Corycaeus robusta</i>	22
Family Sapphirinidae	
<i>Sapphirina metallina</i>	34
Subclass Malacostraca	
Superorder Peracarida	
Order Amphipoda	
Unidentified amphipods	-
Superorder Hoplocarida	
Order Stomatopoda	
Alima larvae	-
Superorder Eucarida	
Order Decapoda	
Suborder Natantia	
<i>Lucifer</i> spp.	-
Suborder Reptantia	
Pagurid larvae	-
Brachyuran zoea	39

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Report No. : 2023-5007085 / 004-4 (page 3 of 3)

Issued date: August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station F2 (Southeast of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 33.25" N, 101° 24' 13.28" E
SAMPLING DATE : June 4, 2023
SAMPLING TIME : 09:40-14:00 hrs.
DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea (Cont'd)	
Subclass Ostracode	
Order Myodocopa	
Family Conchoeciidae	
<i>Euconchoecia</i> spp.	-
Phylum Mollusca	
Class Gastropoda	
Gastropod larvae	23
Subclass Prosobranchia	
Order Mesogastropoda	
Suborder Heteropoda	
Family Carinariidae	
<i>Carinaria</i> sp.	85
Phylum Echinodermata	
Class Ophiuroidea	
Ophiopluteus larvae	-
Phylum Chordata	
Subphylum Urochordata	
Class Larvacea	
Order Urochorda	
Family Oikopleuridae	
<i>Oikopleura</i> spp.	69
Subphylum Vertebrata	
Class Pisces	
Family Engraulidae	
Unidentified Engraulidae	13
Family Gobiidae	
Unidentified Gobiidae	-
Total Class of Zooplankton (Class)	8
Total Density of Zooplankton (Individuals/m ³)	1,578

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Report No. : 2023-5007085 / 004-5 (page 1 of 3)

Issued date: August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E

SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Foraminiferida	
<i>Globigerina</i> sp.	47
Subclass Actinopoda	
Order Radiolarida	
Suborder Spumellaria	
<i>Acanthosphaera insignis</i>	164
Suborder Nassellaria	
<i>Lithomelissa monoceras</i>	21
Suborder Acantharia	
<i>Acanthometron</i> sp.	154
<i>Pleuraspis costata</i> .	69
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis radix</i>	68
<i>T. tocaninensis</i>	-
Family Codonellopsidae	
<i>Codonellopsis morchella</i>	67
Family Tintinnidae	
<i>Amphorellopsis acuta</i>	-
Subclass Peritricha	
Order Peritrichida	
<i>Vorticella</i> spp.	-
Phylum Cnidaria	
Class Hydrozoa	
Unidentified Hydrozoa	21
Order Siphonophora	
Suborder Calycophorae	
Family Diphyidae	
<i>Diphyes</i> spp.	74
<i>Lensia</i> spp.	45
Phylum Chaetognatha	
Class Sagittoidae	
Family Sagittidae	
<i>Sagitta</i> spp.	89

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Report No. : 2023-5007085 / 004-5 (page 2 of 3)

Issued date: August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E

SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea	
Subclass Copepoda	
Copepod nauplius	110
Order Calanoida	
Calanoid copepodid	-
Family Calanidae	
<i>Calanus pauper</i>	74
Family Centropagidae	
<i>Centropages orsinii</i>	58
Family Temoridae	
<i>Temora discaudata</i>	78
Family Candaciidae	
<i>Candacia discaudata</i>	89
Family Pontellidae	
<i>Labidocera acuta</i>	55
Family Acaridae	
<i>Acartia erythraea</i>	89
Order Cyclopoida	
Family Oithonidae	
<i>Oithona</i> spp.	117
Family Corycaeidae	
<i>Corycaeus robusta</i>	66
Family Sapphirinidae	
<i>Sapphirina metallina</i>	50
Subclass Malacostraca	
Superorder Peracarida	
Order Amphipoda	
Unidentified amphipods	-
Superorder Hoplocarida	
Order Stomatopoda	
Alima larvae	-
Superorder Eucarida	
Order Decapoda	
Suborder Natantia	
<i>Lucifer</i> spp.	-
Suborder Reptantia	
Pagurid larvae	72
Brachyuran zoea	-

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Report No. : 2023-5007085 / 004-5 (page 3 of 3)

Issued date: August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification
SAMPLING METHOD : Using zooplankton bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E

SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda	
Class Crustacea (Cont'd)	
Subclass Ostracode	
Order Myodocopa	
Family Conchoeciidae	
<i>Euconchoecia</i> spp.	54
Phylum Mollusca	
Class Gastropoda	
Gastropod larvae	43
Subclass Prosobranchia	
Order Mesogastropoda	
Suborder Heteropoda	
Family Carinariidae	
<i>Carinaria</i> sp.	-
Phylum Echinodermata	
Class Ophiuroidea	
Ophiopluteus larvae	106
Phylum Chordata	
Subphylum Urochordata	
Class Larvacea	
Order Urochorda	
Family Oikopleuridae	
<i>Oikopleura</i> spp.	60
Subphylum Vertebrata	
Class Pisces	
Family Engraulidae	
Unidentified Engraulidae	-
Family Gobiidae	
Unidentified Gobiidae	-
Total Class of Zooplankton (Class)	8
Total Density of Zooplankton (Individuals/m³)	1,880

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Report No. : 2023-5007085 / 005-1 (page 1 of 1)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Fish Larvae Identification **SAMPLING DATE :** June 5, 2023
SAMPLING METHOD : Using larva bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station 5 (Northwest of MOPU at 500 m) **SAMPLING TIME :** 07:15-09:13 hrs.
COORDINATE (WGS 84) : 07° 56' 58.75" N, 101° 22' 48.79" E **DEPTH :** 50 m

Family	Fish Larvae (individuals/1,000 m ³)
Clupeidae (ปลาหลังเขียว)	29
Engraulidae (ปลากะตัก)	12
Bregmacerotidae (ปลากูเรอกระ)	15
Priacanthidae (ปลาดาวหวาน)	14
Leiognathidae (ปลาแบน)	9
Lutjanidae (ปลากะพงแดง)	12
Nemipteridae (ปลาทู)	15
Siganidae (ปลาสลิดทะเล)	17
Scombridae (ปลาทู)	-
Teraponidae (ปลาข้างตะเกียง)	37
Sphyraenidae (ปลาฉลาม)	-
Gobiidae (ปลานู)	23
Cynoglossidae (ปลาลิ้นหมา)	-
Total Family of Fish Larvae (Family)	10
Total Density of Fish Larvae (individuals/1,000 m³)	183



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Report No. : 2023-5007085 / 005-2 (page 1 of 1)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
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Analysis Report

SAMPLE DESIGNATED AS : Fish Larvae Identification **SAMPLING DATE :** June 5, 2023
SAMPLING METHOD : Using larva bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station 6 (Southeast of MOPU at 500 m) **SAMPLING TIME :** 10:00-11:15 hrs.
COORDINATE (WGS 84) : 07° 56' 33.67" N, 101° 23' 9.56" E **DEPTH :** 50 m

Family	Fish Larvae (individuals/1,000 m ³)
Clupeidae (ปลาหลังเขียว)	17
Engraulidae (ปลากะตัก)	15
Bregmacerotidae (ปลากูเราแคระ)	36
Priacanthidae (ปลาดาวหนาม)	21
Leiognathidae (ปลาแบน)	8
Lutjanidae (ปลากะพงแดง)	41
Nemipteridae (ปลาทูลายแดง)	24
Siganidae (ปลาสลิดทะเล)	13
Scombridae (ปลาทู)	17
Teraponidae (ปลาข้างตะกวด)	38
Sphyraenidae (ปลาสาก)	12
Gobiidae (ปลานู)	37
Cynoglossidae (ปลาลิ้นหมา)	11
Total Family of Fish Larvae (Family)	13
Total Density of Fish Larvae (individuals/1,000 m³)	290

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Report No. : 2023-5007085 / 005-3 (page 1 of 1)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Fish Larvae Identification **SAMPLING DATE : June 4, 2023**
SAMPLING METHOD : Using larva bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station F1 (Northwest of FSO at 500 m) **SAMPLING TIME : 14:30-16:45 hrs.**
COORDINATE (WGS 84) : 07° 56' 57.93" N, 101° 23' 52.01" E **DEPTH : 50 m**

Family	Fish Larvae (individuals/1,000 m ³)
Clupeidae (ปลาหลังเขียว)	37
Engraulidae (ปลากะตัก)	19
Bregmacerotidae (ปลากระแจะ)	37
Priacanthidae (ปลาดาวหวาน)	22
Leiognathidae (ปลาแป้น)	13
Lutjanidae (ปลากะพงแดง)	22
Nemipteridae (ปลาทู)	11
Siganidae (ปลาสลิดทะเล)	22
Scombridae (ปลาทู)	8
Teraponidae (ปลาข้างตะเภา)	32
Sphyraenidae (ปลาฉลาม)	-
Gobiidae (ปลานุ)	13
Cynoglossidae (ปลาลิ้นหมา)	21
Total Family of Fish Larvae (Family)	12
Total Density of Fish Larvae (individuals/1,000 m³)	257



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Report No. : 2023-5007085 / 005-4 (page 1 of 1)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Fish Larvae Identification
SAMPLING METHOD : Using larva bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Station F2 (Southeast of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 33.25" N, 101° 24' 13.28" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 09:40-14:00 hrs.
DEPTH : 50 m

Family	Fish Larvae (individuals/1,000 m ³)
Clupeidae (ปลาทู)	41
Engraulidae (ปลากะตัก)	27
Bregmacerotidae (ปลากะแรด)	30
Priacanthidae (ปลาดาว)	17
Leiognathidae (ปลาแฉก)	22
Lutjanidae (ปลากะพงแดง)	25
Nemipteridae (ปลาทูน่า)	-
Siganidae (ปลาสลิดทะเล)	13
Scombridae (ปลาทู)	9
Teraponidae (ปลาข้างตะเภา)	25
Sphyraenidae (ปลาฉลาม)	11
Gobiidae (ปลานุ)	29
Cynoglossidae (ปลาลิ้นหมา)	-
Total Family of Fish Larvae (Family)	11
Total Density of Fish Larvae (individuals/1,000 m³)	249

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Report No. : 2023-5007085 / 005-5 (page 1 of 1)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Fish Larvae Identification
SAMPLING METHOD : Using larva bongo net for the oblique haul from seabed to surface water
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E
SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.
DEPTH : 50 m

Family	Fish Larvae (individuals/1,000 m ³)
Clupeidae (ปลาทู)	55
Engraulidae (ปลากะตัก)	32
Bregmacerotidae (ปลากะแรด)	41
Priacanthidae (ปลาคาฮาน)	22
Leiognathidae (ปลาแฉก)	9
Lutjanidae (ปลากะพงแดง)	24
Nemipteridae (ปลาทูลายแดง)	13
Siganidae (ปลาสลิดทะเล)	-
Scombridae (ปลาทู)	22
Teraponidae (ปลาทูหางตะโก)	21
Sphyraenidae (ปลาสาก)	16
Gobiidae (ปลา)	27
Cynoglossidae (ปลาลิ้นหมา)	25
Total Family of Fish Larvae (Family)	12
Total Density of Fish Larvae (individuals/1,000 m³)	307

Technical Manager

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Report No. : 2023-5007085 / 006-1 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 1 (Northwest of MOPU at 100 m)
COORDINATE (WGS 84) : 07° 56' 49.86" N, 101° 22' 55.76" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 14:40-15.05 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	22	-	11
Family Cossuridae	22	-	-
Family Maldanidae	11	-	-
Family Orbiniidae	-	11	-
Order Sabellida			
Family Sabellidae	11	-	-
Order Terebellida			
Family Sternaspidae	-	-	11
Family Terebellidae	22	-	-
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	11	-	-
Family Nereididae	-	11	-
Family Phyllodocidae	-	-	-
Order Amphinomida			
Family Amphinomidae	-	11	-
Order Eunicida			
Family Eunicidae	11	11	-
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	11	11	-
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	11	22	-
Family Aoridae	11	44	55

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Report No. : 2023-5007085 / 006-1 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 1 (Northwest of MOPU at 100 m)
COORDINATE (WGS 84) : 07° 56' 49.86" N, 101° 22' 55.76" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 14:40-15.05 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	11	22	-
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	11	-	11
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	22	11	-
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	-	-	-
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	-	-	55
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphioplus</i> sp.	-	-	22
Family Ophiotrichidae			
<i>Ophiothrix</i> sp.	-	-	-

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E 273004

Report No. : 2023-5007085 / 006-1 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 1 (Northwest of MOPU at 100 m)
COORDINATE (WGS 84) : 07° 56' 49.86" N, 101° 22' 55.76" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 14:40-15.05 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae <i>Ophiocoma</i> sp.	22	-	-
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	-	11	-
Order Perciformes Family Gobiidae	-	-	11
Total Family of Benthos (Family)	14	10	7
Total Density of Benthos (Individuals/m²)	209	165	176

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Technical Manager

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E 273005

Report No. : 2023-5007085 / 006-2 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 2 (Northwest of MOPU at 100 m)
COORDINATE (WGS 84) : 07° 56' 50.06" N, 101° 23' 2.49" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 15:10-15:35 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	33	33	44
Family Cossuridae	-	-	44
Family Maldanidae	11	-	-
Family Orbiniidae	-	-	-
Order Sabellida			
Family Sabellidae	-	-	-
Order Terebellida			
Family Sternaspidae	22	-	11
Family Terebellidae	22	-	-
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	-	-	-
Family Nereididae	-	-	-
Family Phyllodocidae	-	-	-
Order Amphinomida			
Family Amphinomidae	-	-	-
Order Eunicida			
Family Eunicidae	11	-	11
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	55	-	-
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	-	-	-
Family Aoridae	44	-	22

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Report No. : 2023-5007085 / 006-2 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 2 (Northwest of MOPU at 100 m)
COORDINATE (WGS 84) : 07° 56' 50.06" N, 101° 23' 2.49" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 15:10-15:35 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	44	22	-
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	11	-	-
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	33	44	-
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	-	-	11
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	-	55	22
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphioplus</i> sp.	-	44	11
Family Ophiotrichidae			
<i>Ophiothrix</i> sp.	22	-	11

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E 273007

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Report No. : 2023-5007085 / 006-2 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 2 (Northwest of MOPU at 100 m)
COORDINATE (WGS 84) : 07° 56' 50.06" N, 101° 23' 2.49" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 15:10-15:35 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae Ophiocoma sp.	-	11	-
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	-	-	-
Order Perciformes Family Gobiidae	-	-	-
Total Family of Benthos (Family)	11	6	9
Total Density of Benthos (Individuals/m²)	308	209	187

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SGS (THAILAND) LIMITED



Technical Manager

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E 273008

Report No. : 2023-5007085 / 006-3 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 3 (Southeast of MOPU about 100 m)
COORDINATE (WGS 84) : 07° 56' 42.09" N, 101° 23' 2.31" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 15:45-16:15 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	33	22	11
Family Cossuridae	-	-	-
Family Maldanidae	-	11	11
Family Orbiniidae	44	-	-
Order Sabellida			
Family Sabellidae	11	-	-
Order Terebellida			
Family Sternaspidae	11	-	-
Family Terebellidae	-	11	-
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	-	-	11
Family Nereididae	-	-	11
Family Phyllodocidae	-	-	-
Order Amphinomida			
Family Amphinomidae	-	-	-
Order Eunicida			
Family Eunicidae	11	22	-
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	-	55	11
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	-	-	-
Family Aoridae	44	11	11

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Report No. : 2023-5007085 / 006-3 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 3 (Southeast of MOPU about 100 m)
COORDINATE (WGS 84) : 07° 56' 42.09" N, 101° 23' 2.31" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 15:45-16:15 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	-	22	11
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	22	-	44
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	11	-	11
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	-	-	-
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	-	33	-
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphioplus</i> sp.	-	-	-
Family Ophiotrichidae			
<i>Ophiothrix</i> sp.	-	-	-

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Report No. : 2023-5007085 / 006-3 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 3 (Southeast of MOPU about 100 m)
COORDINATE (WGS 84) : 07° 56' 42.09" N, 101° 23' 2.31" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 15:45-16:15 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae Ophiocoma sp.	-	-	-
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	-	-	11
Order Perciformes Family Gobiidae	11	-	-
Total Family of Benthos (Family)	10	8	10
Total Density of Benthos (Individuals/m²)	198	187	143

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Technical Manager

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E 273011

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Member of the SGS Group

Report No. : 2023-5007085 / 006-4 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 4 (Southeast of MOPU about 100 m)
COORDINATE (WGS 84) : 07° 56' 42.92" N, 101° 22' 55.82" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 16:14-16:55 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	33	11	11
Family Cossuridae	-	-	11
Family Maldanidae	-	-	-
Family Orbiniidae	22	-	-
Order Sabellida			
Family Sabellidae	-	10	-
Order Terebellida			
Family Sternaspidae	-	22	-
Family Terebellidae	-	-	-
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	-	-	-
Family Nereididae	-	-	-
Family Phyllodocidae	22	-	11
Order Amphinomida			
Family Amphinomidae	-	-	-
Order Eunicida			
Family Eunicidae	11	-	-
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	44	11	-
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	-	-	-
Family Aoridae	-	22	-

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Report No. : 2023-5007085 / 006-4 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 4 (Southeast of MOPU about 100 m)
COORDINATE (WGS 84) : 07° 56' 42.92" N, 101° 22' 55.82" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 16:14-16:55 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	11	22	22
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	33	-	22
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	11	44	44
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	22	-	-
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	-	22	-
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphioplus</i> sp.	-	-	-
Family Ophiotrichidae			
<i>Ophiotrix</i> sp.	22	-	11

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Report No. : 2023-5007085 / 006-4 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station 4 (Southeast of MOPU about 100 m)
COORDINATE (WGS 84) : 07° 56' 42.92" N, 101° 22' 55.82" E

SAMPLING DATE : June 5, 2023
SAMPLING TIME : 16:14-16:55 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae Ophiocoma sp.	11	-	22
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	-	11	-
Order Perciformes Family Gobiidae	-	-	-
Total Family of Benthos (Family)	11	9	8
Total Density of Benthos (Individuals/m²)	242	175	154



Thepsan Y.
 (Thepsan Yommana)
 Technical Manager

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E 273014

Report No. : 2023-5007085 / 006-5 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station F1 (Northwest of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 57.93" N, 101° 23' 52.01" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 14:30-16:45 hrs.
DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	33	11	11
Family Cossuridae	-	-	-
Family Maldanidae	-	44	-
Family Orbiniidae	55	-	-
Order Sabellida			
Family Sabellidae	-	-	-
Order Terebellida			
Family Sternaspidae	-	11	-
Family Terebellidae	-	-	-
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	-	-	11
Family Nereididae	11	11	-
Family Phyllodocidae	-	-	-
Order Amphinomida			
Family Amphinomidae	-	-	-
Order Eunicida			
Family Eunicidae	-	11	-
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	-	33	-
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	22	-	-
Family Aoridae	-	-	-

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Report No. : 2023-5007085 / 006-5 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station F1 (Northwest of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 57.93" N, 101° 23' 52.01" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 14:30-16:45 hrs.
DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	22	-	55
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	22	-	-
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	22	-	-
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	-	22	-
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	-	11	66
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphioplus</i> sp.	-	-	-
Family Ophiotrichidae			
<i>Ophiothrix</i> sp.	-	-	-

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Report No. : 2023-5007085 / 006-5 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station F1 (Northwest of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 57.93" N, 101° 23' 52.01" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 14:30-16:45 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae Ophiocoma sp.	-	-	-
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	-	-	-
Order Perciformes Family Gobiidae	-	11	-
Total Family of Benthos (Family)	7	9	4
Total Density of Benthos (Individuals/m²)	187	165	143

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SGS (THAILAND) LIMITED

Technical Manager

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E 273017

Report No. : 2023-5007085 / 006-6 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station F2 (Southeast of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 33.25" N, 101° 24' 13.28" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 09:40-14:00 hrs.
DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	33	22	-
Family Cossuridae	22	-	-
Family Maldanidae	-	-	-
Family Orbiniidae	-	33	22
Order Sabellida			
Family Sabellidae	-	-	-
Order Terebellida			
Family Sternaspidae	-	11	-
Family Terebellidae	-	-	11
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	-	-	11
Family Nereididae	11	-	11
Family Phyllodocidae	-	-	11
Order Amphinomida			
Family Amphinomidae	-	-	-
Order Eunicida			
Family Eunicidae	22	-	11
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	-	-	-
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	-	-	22
Family Aoridae	-	22	55

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Report No. : 2023-5007085 / 006-6 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station F2 (Southeast of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 33.25" N, 101° 24' 13.28" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 09:40-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	-	22	11
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	22	33	55
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	-	11	-
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	-	-	-
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	33	-	33
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphioplus</i> sp.	-	-	-
Family Ophiotrichidae			
<i>Ophiothrix</i> sp.	33	-	-

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E 273019

SGS (Thailand) Limited

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Member of the SGS Group

Report No. : 2023-5007085 / 006-6 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Station F2 (Southeast of FSO at 500 m)
COORDINATE (WGS 84) : 07° 56' 33.25" N, 101° 24' 13.28" E

SAMPLING DATE : June 4, 2023
SAMPLING TIME : 09:40-14:00 hrs.
DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae <i>Ophiocoma</i> sp.	22	-	-
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	11	33	11
Order Perciformes Family Gobiidae	11	-	-
Total Family of Benthos (Family)	10	8	12
Total Density of Benthos (Individuals/m²)	220	187	264

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SGS (THAILAND) LIMITED



Technical Manager

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E 273020

Report No. : 2023-5007085 / 006-7 (page 1 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E

SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Annelida			
Class Polychaeta			
Subclass Sedentaria			
Family Capitellidae	11	44	22
Family Cossuridae	-	-	22
Family Maldanidae	-	-	11
Family Orbiniidae	44	11	11
Order Sabellida			
Family Sabellidae	11	11	22
Order Terebellida			
Family Sternaspidae	-	11	-
Family Terebellidae	-	-	-
Subclass Errantia			
Order Phyllodocida			
Family Glyceridae	-	-	22
Family Nereididae	-	11	-
Family Phyllodocidae	11	-	-
Order Amphinomida			
Family Amphinomidae	-	11	-
Order Eunicida			
Family Eunicidae	-	-	-
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Hoplocarida			
Order Stomatopoda			
Suborder Unipeltata			
Family Squillidae	11	44	11
Subclass Eumalacostraca			
Superorder Peracarida			
Order Amphipoda			
Suborder Senticaudata			
Family Ampithoidae	-	-	22
Family Aoridae	22	-	22

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Report No. : 2023-5007085 / 006-7 (page 2 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E

SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Arthropoda			
Subphylum Crustacea			
Class Malacostraca			
Subclass Eumalacostraca (Cont'd)			
Superorder Eucarida			
Order Decapoda			
Suborder Dendrobranchiata			
Family Penaeidae			
<i>Metapenaeus</i> sp.	-	-	11
Suborder Pleocyemata			
Family Alpheidae			
<i>Alpheus</i> sp.	22	-	11
Family Pinnotheridae			
<i>Pinnotheres</i> sp.	11	22	-
Phylum Mollusca			
Class Gastropoda			
Subclass Caenogastropoda			
Superfamily Cerithioidea			
Family Turritellidae			
<i>Turritella terebra</i>	-	-	-
Class Bivalvia			
Subclass Heterodonta			
Order Cardiida			
Family Semelidae			
<i>Abra tenuis</i>	-	22	-
Phylum Echinodermata			
Class Ophiuroidea			
Order Amphilepidida			
Family Amphiuridae			
<i>Amphiopus</i> sp.	-	-	-
Family Ophiotrichidae			
<i>Ophiothrix</i> sp.	-	11	-

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Report No. : 2023-5007085 / 006-7 (page 3 of 3)

Issued date : August 9, 2023

CLIENT : VALEURA ENERGY (GULF OF THAILAND) LIMITED
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification
SAMPLING METHOD : Grab sampling (Van Veen grab)
SAMPLING LOCATION : Reference Station
COORDINATE (WGS 84) : 08° 01' 22.1" N, 101° 11' 46.1" E

SAMPLING DATE : June 6, 2023
SAMPLING TIME : 08:35-14:00 hrs.

DEPTH : 50 m

Scientific Classification	Benthos (Individuals/m ²)		
	Replication		
	I	II	III
Phylum Echinodermata Class Ophiuroidea (Cont'd) Order Ophiacanthida Family Ophiocomidae <i>Ophiocoma</i> sp.	-	44	22
Phylum Chordata Subphylum Vertebrata Class Actinopterygii Order Gadiformes Family Bregmacerotidae	33	-	11
Order Perciformes Family Gobiidae	11	-	33
Total Family of Benthos (Family)	10	11	14
Total Density of Benthos (Individuals/m²)	187	242	253

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