

Network of Stand-by Oil Spill Response Vessels

Handbook February 2011

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General Information



The requirement

In May 2004, with the entering into force of Regulation 724/2004/EC, EMSA was given the task of providing support to Member States in their efforts to respond to ship-sourced pollution in EU waters. In order to define the framework for the associated support activities, the Agency developed the Action Plan for Oil Pollution Preparedness and Response (2004). The plan is updated regularly as part of the Agency's annual Work Programme.

EMSA 'top-up' pollution response resources

The primary responsibility to react to, and to coordinate the response to, an oil pollution incident rests with the affected Member State(s). As major spills frequently concern more than one country, various regional arrangements have been set in place to facilitate co-operation and assistance in such cases. EMSA provides an additional 'top-up' tier to these arrangements and to the Member States.





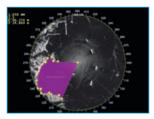
A cost efficient 'top-up' service is provided by ships contracted from the private sector

Big scale pollution disasters, like the most recent cases of the Erika (1999) and the Prestige (2002), illustrate that individual coastal states can not reasonably be expected to have sufficient resources to mount an appropriate response by themselves. European co-operation is required, and it is within this framework that EMSA provides its assistance. For major spills, generally the most appropriate response is to recover the oil at sea before it reaches the coastline, as this significantly reduces the environmental damage and waste disposal challenges.

At the practical level, an EU level mechanism has been set up to enable coastal states to request additional response equipment and resources from other EU/EFTA countries or from EMSA. This mechanism is operated by the Monitoring and Information Centre (MIC) based in Brussels, Belgium, which is managed by the European Commission (DG ECHO).

Following a request via the MIC from an EU Member State, an EU Candidate Country, an EFTA country or the European Commission, EMSA provides assistance on the following basis:

- The Agency resources are a 'reserve for disasters' to assist Member States in responding to an incident which is beyond national capabilities.
- The Agency resources are put under the operational command of the affected Member State for the duration of the emergency.
- The Agency resources have been established in a cost efficient manner.





The Stand-by Oil Spill Response Vessels are equipped with state-of-the-art pollution response equipment

EMSA's pollution response vessels

Experience acquired during previous major oil spills has shown clearly that mechanical at-sea oil 'containment and recovery' is the most appropriate technique for removing spilled oil from the marine environment. To provide support for this type of activity, EMSA has established, following public procurement procedures, contracts for at-sea oil recovery services around the European coastline with commercial vessel operators. Given that the EMSA service is to 'top-up' available resources for major spills and for cost efficiency reasons, it was not seen as appropriate to build or buy dedicated vessels to be on permanent stand-by.

The contracted vessels will, under normal circumstances, carry out their usual commercial activities. However, in the event of an oil spill, and following a request for assistance from a Member State, the nominated vessel will cease its normal activities and, at short notice, be transformed into and operate as a certified oil recovery vessel.

Appropriate modification/pre-fitting to the vessels has been carried out in order to ensure that the specialised oil spill response equipment can be installed rapidly onboard and be operated safely by the crew.

ADDITIONAL RESPONSE CAPACITY

EMSA's pollution response vessels (continued)

Each of the EMSA contracted vessels is equipped with oil pollution response equipment. The Agency resources are primarily tailored for spills of heavy grades of oil.





EMSA vessels deploying sweepimg arms (left) and offshore boom (right)

Each arrangement has the following common characteristics:

- The vessel will operate as an oil recovery vessel on the basis of a pre-agreed model contract with fixed fees and conditions as developed by the Agency in consultation with Member States for this purpose.
- Each vessel has large ecovered oil storage capacity.
- The primary oil recovery system is based around the 'sweeping arm' concept with an alternate 'ocean-going boom and skimmer' system also available. The requesting Member State can select the equipment in accordance with the incident characteristics.
- Each vessel has a speed over 12 knots for prompt arrival on site.
- Each vessel is equipped with a local radar based oil slick detection system to facilitate the positioning of the vessel in the thicker oil slicks, and to enable operations at night.
- Each vessel has the manoeuvrability required to carry out oil recovery operations.
- Each vessel is able to decant excess water thus maximising the utilisation of the onboard storage capacity.
- Each vessel has the ability to heat the recovered cargo and utilise high capacity pumps in order to facilitate the discharging of heavy viscous oil mixtures to shoreside facilities as designated by the Member State concerned.



Oil recovery operations on board an EMSA vessel during the Fedra incident

It is important to note that, independent of their area of commercial operations, all vessels are available to respond to a spill anywhere in European waters.

The average individual oil storage capacity of the EMSA contracted vessels is in the region of 3,100 m³ and they provide a total storage capacity of more than 50,000 m³. During an incident, the vessel and her crew will be under the operational command of the affected Member State.

To maintain the quality of the at-sea oil recovery service, all vessels and crews undergo regular equipment drills under the supervision of the Agency. In order to work under an international command and control structure, which is the most likely scenario during a major spill, each vessel is available to participate in regular at-sea spill response exercises.





EMSA vessels during international exercises

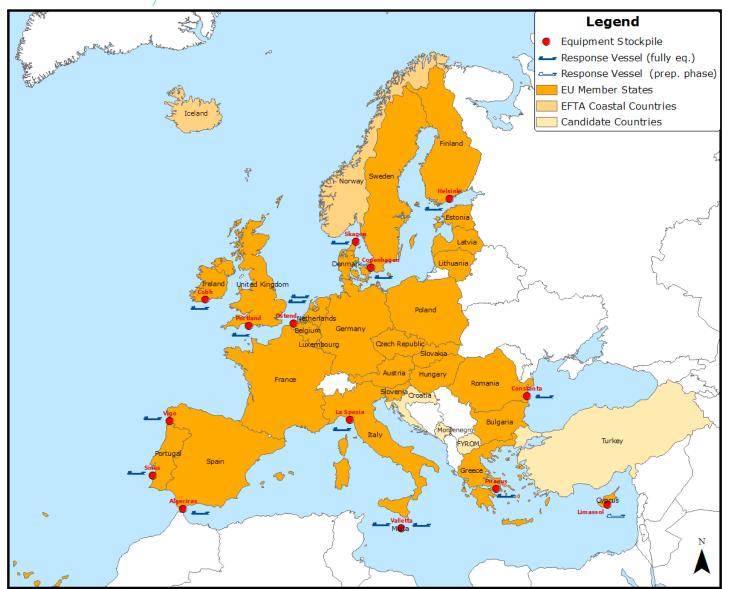
Following a period of phasing-in, the service network now has resources in place along the European coastline: from the Baltic Sea to the Black Sea, and covering the Atlantic coastline and the Mediterranean Sea. The service network will be maintained and improved in order to continue to provide an effective 'European tier' of pollution response vessels for the protection of the European coastline.

Network Map



Network Map: February 2011

European Maritime Safety Agency



Note: Iceland is also an EU Candidate Country since 17 June 2010

Summary Table of the Network

Summary Table of the Network								
Name	Туре	Area of Economic Operation & Equipment Depot	Tank capacity [m³]	Length [m]	Breadth [m]	Draught [m]	Flash point	Pollution Response Equipment
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki/Finland	2003	98.60	24.20	8.00	> 60°C	Two Rigid Sweeping Arms, 12m Heavy Duty Boom 2x250m Brush Skimmer Oil Slick Detection System
OW Aalborg	Chemical Product Tanker	Baltic Sea South	4487	90.50	14.60	5.41	< 60°C	Two Flexible Sweeping Arms 15.6m Single Point Inflation Boom, 1x400m Brush Skimmer; Two Arctic Skimmers Oil Slick Detection System
OW Copenhagen	Chemical Product Tanker	Copenhagen & Skagen/Denmark	4487	90.50	14.60	5.30	< 60°C	Two Flexible Sweeping Arms 15.6m Single Point Inflation Boom, 2x250m Brush Skimmer Oil Slick Detection System
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744	89.20	14.00	6.30	> 60°C	Two Rigid Sweeping Arms, 12m Heavy Duty Single Point Inflation Boom, 2x250m Weir Skimmer Oil Slick Detection System
Interballast III	Suction Hopper Dredger	Ostend/Belgium	1886	70.00	13.20	5.40	> 60°C	Two Rigid Sweeping Arms, 12m Heavy Duty Single Point Inflation Boom, 2x250m Weir Skimmer Oil Slick Detection System
Forth Fisher	Product Tanker		4754	91.00	15.58	6.20	< 60°C	Two Rigid Sweeping Arms, 15m
Galway Fisher	Oil Tanker	Atlantic Cobh/Ireland	4754	91.00	15.58	6.20	< 60°C	Heavy Duty Single Point Inflation Boom, 4x250m Two Weir Skimmers Two Oil Slick Detection Systems
Mersey Fisher	Product Tanker		5028	91.40	15.50	6.02	< 60°C	Two oil slick Detection systems
Sara	Oil Tanker	Atlantic/Channel Portland/UK	6658	111.30	16.50	7.00	< 60°C	Two Rigid Sweeping Arms, 15m Heavy Duty Single Point Inflation Boom, 2x250m Weir/Brush/Disc Skimmer Oil Slick Detection System
Ria de Vigo	Supply Vessel	Atlantic Vigo/Spain	1522	69.00	13.50	6.80	> 60°C	Two Rigid Sweeping Arms, 13m Heavy Duty Boom, 2x250m Weir/Shovel Drum High-Capacity Multiskimmer Weir Skimmer Oil Slick Detection System
Bahia Tres	Product Tanker	Atlantic Sines/Portugal	7413	99.80	18.00	7.00	> 60°C	Two Rigid Sweeping Arms, 12m Single Point Inflation Boom, 2x250m Brush Skimmer Oil Slick Detection System
Bahia Uno	Product Tanker	Mediterranean West Algeciras/Spain	3800	71.01	15.60	5.80	> 60°C	Two Rigid Sweeping Arms, 12m Single Point Inflation Boom, 2x250m Brush Skimmer Oil Slick Detection System
Salina Bay	Oil Tanker	Mediterranean West La Spezia/Ialy	2800	74.70	13.10	5.53	> 60°C	Two Rigid Sweeping Arms, 12m Single Point Inflation Boom, 2x250m Weir/Brush/Disc SKimmer Oil Slick Detection System
Mistra Bay	Oil Tanker	Mediterranean Central Valletta/Malta	1805	86.03	13.04	5.19	> 60°C	Two Rigid Sweeping Arms, 12m Single Point Inflation Boom, 1x300m Weir Skimmer Oil Slick Detection System
Santa Maria	Oil Tanker	Mediterranean Central Marsaxlokk/Malta	2421	93.10	14.05	6.82	< 60°C	Two Rigid Sweeping Arms, 15m Heavy Duty Boom, 2x250m Weir/Brush High-Capacity Multiskimmer Weir Skimmer Oil Slick Detection System
Aktea OSRV	Oil Tanker	Mediterranean East	3000	78.50	12.60	4.87	< 60°C	Two Rigid Sweeping Arms, 15m Single Point Inflation Boom, 2x250m Weir Skimmer Oil Slick Detection System
Aegis	Supply Vessel	Piraeus/Greece	950	65.00	14	5.90	> 60°C	Heavy Duty Boom, 2x250m Weir/Brush Skimmer
Alexandria	Oil Tanker	Mediterranean East Limassol/Cyprus	7458	94.00	18.50	9.60	> 60°C	Two Rigid Sweeping Arms, 15m Heavy Duty Single Point Inflation Boom, 2x250m Weir/Brush Skimmer Oil Slick Detection System
GSP Orion	Supply Vessel	Black Sea Constanta/Romania	1334	67.40	16.80	6.20	> 60°C	Two Rigid Sweeping Arms, 12m Heavy Duty Boom, 2x250m Weir/Shovel Drum High-Capacity Multiskimmer Brush Skimmer Oil Slick Detection System

Contract Information Sheets



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Arctia Icebreaking Oy, subsidiary of Arctia Shipping Oy Ltd.

CONTRACTED VESSEL(S)

Kontio

AREA OF ECONOMIC OPERATION

The Northern Baltic Sea

limited to the south by the line from Klaipeda (LT) to Kalmar (SE)

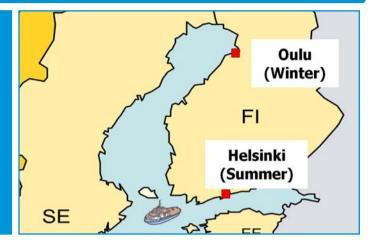
STOCKPILE LOCATION

Helsinki, Finland (summer); Oulu, Finland (icebreaking season)

NUMBER OF VESSELS TO BE MOBILISED 1 vessel

MOBILISATION TIME

Within 24 hours



ABOUT THE SERVICE

Arctia Icebreaking Oy offers icebreaking services and owns 29 vessels, including the Kontio, 4 other conventional icebreakers, 3 multipurpose icebreakers and eleven ferries. The company has 100 years' experience of icebreaking in the Baltic.

During the summer the oil pollution equipment is kept onboard the vessel in Helsinki. During the icebreaking period (130 - 140 days, beginning of December) the equipment is be stored at Oulu in northern Finland.



Sweeping arm



Oil transfer pump

EQUIPMENT STOCKPILE

Sweeping arms

Two Lamor rigid sweeping arms (12 m) with weir/brush skimmer module (LSS 12)

Boom

Lamor heavy duty boom, 2x250 m (HDB 2000)

Skimmer

Lamor free floating brush skimmer (LFF 100 2C)

Slick detection

Consilium slick detection system (Selesmar Selux ST 340)

Additional equipment

Gas detector, Mini Lab, Flashpoint tester



Skimmer



Heavy duty boom

ABOUT THE VESSEL - Kontio



The Kontio's commercial activity is as an icebreaker.







IMO Number: 8518120 Flag State: Finland Port of Registry: Helsinki

Type: Icebreaker (Swedish-Finnish Ice Class 1A Super)

Built: 1986 Length: 98.60 m Breadth: 24.20 m Max. Draft: 8.0 m DWT: 2000 Ton

Gross Tonnage: 7066 Ton
Net Tonnage: 2120 Ton
Storage capacity: 2033 m³
Heating capacity: 2 x 1.54 MW
Pumping capacity: 700 m³/h

Flash Point: > 60°

Propeller: 2 x Fixed Pitch Propeller

Bow Thruster: Yes Max. speed: 18.5 knots

Classification Society: Germanischer Lloyd



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



EMSA's vessel network provides a service across the European coastline. For more information, visit the EMSA web site and consult the related brochure: 'Supporting Coastal States: Service Network of Standby Oil Spill Response Vessels', or watch the video 'Oil Spill Response Services, Video 2009'

Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

- This is a pool of three similar sized tankers from which one fully
- equipped vessel and one partially equipped vessel can be mobilised.
- *** Alexandria is expected to enter into the Stand-by phase of the Contract in mid 2011.





QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

BALTIC SEA

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Lamor Corporation/OW Bunkers

CONTRACTED VESSEL(S)

OW Copenhagen, OW Aalborg

AREA OF ECONOMIC OPERATION

Baltic Sea

STOCKPILE LOCATION

Skagen and Copenhagen, Denmark

NUMBER OF VESSELS TO BE MOBILISED

2

MOBILISATION TIME

Within 18 hours



ABOUT THE SERVICE

The arrangement comprises two bunker tankers operating in Danish Baltic ports and two equipment stockpiles based in Copenhagen and Skagen. The contractor is formed by a consortium which includes OW Bunkers, a shipowner specialised in bunker services. It is part of the Wrist Group A/S, which includes a wide range of companies servicing the shipping industry worldwide.

The second partner of this arrangement is Lamor, a Finnish based company, supplying oil spill recovery equipment and services globally.



Sweeping arm



Brush skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Four Lamor flexible sweeping arms, 15.6 m (LSC-4C/3500)

Boon

Norlense single point inflation boom, 1x400 m (NO-450-S) Norlense single point inflation boom, 2x250 m (NO-800-R)

Skimmer

Two Lamor brush skimmer (LFF 400 W)

Two Lamor brush arctic skimmer (LAS 125 W/P)

Slick detection

Two Seadarq oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester



Boom and brush skimmer



Flexible sweeping arm

ABOUT THE VESSEL - OW Copenhagen



The OW Copenhagen's commercial activity is as a bunker vessel.







IMO Number: 9327487 Flag State: Denmark Port of Registry: Aalborg Type: Chemical Product Tanker

Built: 2006 Length: 90.50 m Breadth: 14.60 m Max. Draft: 5.30 m DWT: 3548 Ton

Gross Tonnage: 3021 Ton Storage capacity: 4487 m³ Heating capacity: 2 x 1800 kW Pumping capacity: 1500 m³/h

Flash Point: < 60°

Propeller: 2 x Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Germanischer Lloyd



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ABOUT THE VESSEL - OW Aalborg



The OW Aalborg's commercial activity is as a bunker vessel.







IMO Number: 9327475 Flag State: Denmark Port of Registry: Aalborg

Built: 2005

Type: Chemical Product Tanker

Length: 90.50 m Breadth: 14.60 m Max. Draft: 5.41 m DWT: 3522 Tons

Gross Tonnage: 3021 Tons Storage capacity: 4487 m³ Heating capacity: 2 x 1744 kW Pumping capacity: 1500 m³/h

Flash Point: <60°C

Propeller: 2 x Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12.5 knots

Classification Society: Germanischer Lloyd

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

This is a pool of

equipped vessel and one partially equipped vessel can be mobilised.

*** Alexandria is expected to enter into the Stand-by phase of the Contract in mid 201



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

NORTH SEA

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

DC Industrial

CONTRACTED VESSEL(S)

DC Vlaanderen 3000, Interballast III

AREA OF ECONOMIC OPERATION

Coasts of Belgium and the Netherlands

STOCKPILE LOCATION

Ostend, Belgium

NUMBER OF VESSELS TO BE MOBILISED

2

MOBILISATION TIME

Within 20 hours



ABOUT THE SERVICE

The arrangement comprises two hopper dredgers, DC Vlaanderen 3000 and Interballast III, operating in the North Sea area, and two stockpiles based in Ostend. Both dredgers can be mobilised simultaneously.

The contractor, DC Industrial, is part of the Belgian group De Cloedt, an independent industrial group active in different domains such as granulates, concrete, environmental contracting and dredging. The contractor operates a fleet of four hopper dredgers and has experience operating dredgers with pollution response capabilities.



Sweeping arm



Vikoma boom

EQUIPMENT STOCKPILE

Sweeping arms

Four Koseq rigid sweeping arms (12 m) with weir skimmer

Boor

Vikoma heavy duty single point inflation boom, 4x250 m

(Hi-Sprint 2000)

Skimmer

Two Markleen weir skimmer (WMS 280)

Slick detection

Two Miros oil slick detection system

Additional equipment Gas detector, Mini Lab



Weirskimmer



Slick detection

ABOUT THE VESSEL - DC Vlaanderen 3000



The DC Vlaanderen's commercial activity is as a hopper dredger.







IMO Number: 9250373 Flag State: The Netherlands Port of registry: Breskens Type: Suction Hopper Dredger

Built: 2002 Length: 89.20 m Breadth: 14.00 m Max. Draft: 6.60 m DWT: 4207 Ton

Gross tonnage: 2744 Ton Net Tonnage: 823 Ton Storage capacity: 2744 m³ Heating capacity: 1226 kW Pumping capacity: 1460 m³/h

Flash Point: >60°C

Propeller: 2 x Fixed Pitch Propeller

Bow Thruster: Yes Max. speed: 13 knots

Classification Society: Bureau Veritas



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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ABOUT THE VESSEL - Interballast III



The Interballast III's commercial activity is as a hopper dredger.







IMO Number: 8113463 Flag State: The Netherlands Port of registry: Sas Van Gent Built: 1980 (refurbished in 2003) Type: Suction Hopper Dredger

Length: 65.40 m Breadth: 13.20 m Max. Draft: 6.40 m DWT: 2937 Tons

Gross Tonnage: 1670 Tons Net Tonnage: 503 Tons Storage capacity: 1886 m³ Heating capacity: 785 kW Pumping capacity: 1460 m³/h

Flash Point: >60°C

Propeller: Fixed Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Bureau Veritas

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

- This is a pool of three similar sized tankers from which one fully equipped vessel and one partially equipped vessel can be mobilised
- ** Aegis is a back-up vessel equipped with boom and skimmer systems



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

ATLANTIC

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

James Fisher Everard Ltd.

CONTRACTED VESSEL(S)

Forth Fisher, Galway Fisher, Mersey Fisher

AREA OF ECONOMIC OPERATION

Atlantic Coast

STOCKPILE LOCATION

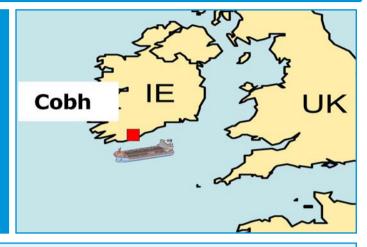
Cobh, Ireland

NUMBER OF VESSELS TO BE MOBILISED

1 vessel fully equipped (and 1 partially eqipped)

MOBILISATION TIME

Within 24 hours



ABOUT THE SERVICE

The James Fisher Group of companies provides a range of marine services from bases around the UK and in Scandinavia. The services include defence, marine oil, offshore oil, shipping and specialist technical services.

The arrangement includes three tankers from which one fully equipped vessel and one partially equipped vessel can be mobilised. The tankers usually trade from the South of the UK to Ireland. The equipment stockpile is located in Cobh, Ireland.

EQUIPMENT STOCKPILE

Sweeping arms

Two Koseq rigid sweeping arms (15 m) with weir skimmer

Boor

Vikoma heavy duty single point inflation boom, 4x250 m

(Hi-Sprint 2000)

Skimmer

Two Desmi weir skimmer (Tarantula)

Slick detection

Two Miros oil slick detection system



Sweeping arm



Tarantula skimmer



Boom and skimmer



Slick detection

ABOUT THE VESSEL - Forth Fisher



The Forth Fisher's commercial activity is as a product tanker.







IMO Number: 9118159 Flag State: United Kingdom Port of Registry: Barrow Type: Product Tanker

Built: 1997 Length: 91.00 m Breadth: 15.58 m Max. Draft: 6.20 m DWT: 4973 Ton

Gross Tonnage: 3368 Ton Net Tonnage: 1367 Ton Storage capacity: 4756 m³ Heating capacity: 3488 kW Pumping capacity: 3400 m³/h

Flash Point: < 60°

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Lloyd's Register



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ABOUT THE VESSEL - Galway Fisher



The Galway Fisher's commercial activity is as an oil tanker.







IMO Number: 9118161 Flag State: United Kingdom Port of Registry: Barrow

Type: Oil Tanker Built: 1997 Length: 91.00 m Breadth: 15.58 m Max. Draft: 5.10 m DWT: 4968 Ton

Gross Tonnage: 3368 Ton Net Tonnage: 1010 Ton Storage capacity: 4754 m³ Heating capacity: 3883 kW Pumping capacity: 3400 m³/h

Flash Point: < 60°C

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 13 knots

Classification Society: Lloyd's Register

ABOUT THE VESSEL - Mersey Fisher



The Mersey Fisher's commercial activity is as an oil tanker.







IMO Number: 9170420 Flag State: Gibraltar Port of Registry: Gibraltar Type: Product Tanker

Built: 1998 Length: 91.40 m Breadth: 15.50 m Max. Draft: 6.02 m DWT: 4765 Ton

Gross Tonnage: 2760 Ton Net Tonnage: 1454 Ton Storage capacity: 5028 m³ Heating capacity: 2907 kW Pumping capacity: 3400 m³/h

Flash Point: <60°C

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Lloyd's Register



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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

ATLANTIC & CHANNEL

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Aegean Bunkers at Sea

CONTRACTED VESSEL(S)

Sara

AREA OF ECONOMIC OPERATION

Atlantic and the Channel

STOCKPILE LOCATION

Portland, United Kingdom

NUMBER OF VESSELS TO BE MOBILISED

1 vessel

MOBILISATION TIME

Within 24 hours



ABOUT THE SERVICE

Aegean Bunkers at Sea NV provides in-port and offshore bunkering services for the international shipping industry.

The company is a subdivision of Aegean Marine Petroleum Network Inc., a marine fuel logistics company that physically supplies and markets refined marine fuel and lubricants to ships. The company operates three vessels: m/t Syros, m/t Sara and m/t Aegean Princess. The offshore bunkering locations of the company are the English Channel, North Sea and St. George Channel. The equipment will be stored in Portland.



Sweeping arm



Boom

EQUIPMENT STOCKPILE

Sweeping arms

Two Koseq rigid sweeping arms (15 m) with weir/brush skimmer module

Boom

Desmi heavy duty single point inflation boom, 2x250 m (Ro-Boom 2000 SPI)

Skimmer

Desmi skimmer with weir/brush/disc module (Tarantula)

Slick detection

Miros oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester, Oleometer



Tarantula skimmer



Slick detection system

ABOUT THE VESSEL - Sara



The Sara's commercial activity is bunkering services.







IMO Number: 8814861 Flag State: Malta Port of Registry: Valletta

Type: Oil Tanker

Built: 1990 (double hull conversion in 2003)

Length: 111.30 m Breadth: 16.50 m Max. Draft: 7.0 m DWT: 7389 Ton

Gross Tonnage: 4156 Ton Net Tonnage: 1947 Ton Storage capacity: 6658 m³ Heating capacity: 2394 kW Pumping capacity: 2550 m³/h

Flash Point: < 60°

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 14 knots

Classification Society: Bureau Veritas



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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East Piraeus, Greece	3000
Aegis**	Supply Vessel		950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

- This is a pool of three similar sized tankers from which one fully
- equipped vessel and one partially equipped vessel can be mobilised.
- *** Alexandria is expected to enter into the Stand-by phase of the Contract in mid 2011.





QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

ATLANTIC

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Remolcanosa S.A.

CONTRACTED VESSEL(S)

Ria de Vigo

AREA OF ECONOMIC OPERATION

Spain, North-western Coast (Galicia)

STOCKPILE LOCATION

Vigo, Spain

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 24 hours



ABOUT THE SERVICE

The Contractor, Remolcanosa, is a marine services company based in Vigo and has a worldwide operational capacity. The main activities include harbour towage, salvage, offshore and coastal towage, crew and vessels management and ISM and ISPS Codes Consulting.

The arrangement includes the supply vessel Ria de Vigo, which is based in Vigo providing Fisheries Monitoring Services. The equipment is permanently installed onboard.



Sweeping arms



Transrec multiskimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Sofreba rigid sweeping arms (13 m) with weir skimmer

Boor

Desmi heavy duty boom, 2x250 m (Ro-Boom 2000)

Skimmer

Framo weir/shovel drum high-capacity multiskimmer

(Transrec 150)

Desmi weir skimmer (Terminator)

Slick detection

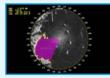
Seadarq oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester, Cleaning mach.



Heavy duty boom



Slick detection

ABOUT THE VESSEL - Ria de Vigo



The Rio de Vigo's commercial activity is fisheries control.







IMO number: 8311417 Flag state: Spain

Port of registry: Santa Cruz de Tenerife

Type: Supply Vessel Built: 1985

Length: 69.00 m Breadth: 13.50 m Max draft: 6.80 m Gross Tonnage: 1585 Ton Storage capacity: 1522 m³ Heating capacity: 750 kW

Pumping capacity: 625 m³/h Flash Point: >60°

Propeller: 2 x Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 14.25 knots

Classification Society: Germanischer Lloyd



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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East Piraeus, Greece	3000
Aegis**	Supply Vessel		950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

ATLANTIC

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Lamor Corporation/Mureloil

CONTRACTED VESSEL(S)

Bahia Tres

AREA OF ECONOMIC OPERATION

Western coast of Portugal, mainly between Sines and Lisbon

STOCKPILE LOCATION

Sines, Portugal

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 15 hours



ABOUT THE SERVICE

The main Contractor of this arrangement is Lamor, Finland based company, supplying oil spill recovery equipment and services globally. The sub-contractor providing the ship is Mureloil, result of a Joint Venture between Naviera Murueta and Naviera Elcano, both of them Spanish shipowners.

The vessel in this arrangement, Bahia Tres, provides bunkering services along the Portuguese coast. The equipment stockpile is located in Sines.



Sweeping arm



Boom and brush skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Lamor rigid sweeping arms (12 m) with weir/brush skimmer module (LJS 12)

Boom

Norlense single point inflation boom, 2x250 m (NO-800-R)

Skimmer

Lamor offshore brush skimmer (LFF 100 2C)

Slick detection

Seadarq oil slick detection system

Additional equipment

Oil water separator, Gas detector, Mini Lab, Flashpoint tester, Portable cleaning machine



Norlense boom



Sweeping arm skimmer

ABOUT THE VESSEL - Bahia Tres



The Bahia Tres' commercial activity is bunkering services.







IMO Number: 9428671 Flag State: Spain

Port of Registry: Santa Cruz de Tenerife

Type: Product Tanker

Built: 2007 Length: 99.80 m Breadth: 18.00 m Max. Draft: 7.00 m DWT: 6920 Ton

Gross Tonnage: 4969 Ton Net Tonnage: 1859 Ton Storage capacity: 7413 m³ Heating capacity: 2300 kW Pumping capacity: 2050 m³

Flash Point: >60°

Propeller: Fixed Pitch Propeller

Bow Thruster: Yes Max. speed: 12.7 knots

Classification Society: ABS and Bureau Veritas



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East Piraeus, Greece	3000
Aegis**	Supply Vessel		950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Mureloil

CONTRACTED VESSEL(S)

Bahia Uno

AREA OF ECONOMIC OPERATION

Vicinity of Algeciras (southern Spain)

STOCKPILE LOCATION

Algeciras, Spain

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 12 hours



ABOUT THE SERVICE

The Contractor, Mureloil, is the result of a Joint Venture between Naviera Murueta and Naviera Elcano, both of them Spanish shipowners. The company was created to provide bunkering services. The vessel is chartered to Repsol, a Spanish oil company, which has agreed to provide pollution response services with this ship.

The arrangement comprises Bahia Uno which provides bunkering services in the Algeciras Bay and neighbouring ports. The equipment stockpile is located in Algeciras.



Sweeping arm skimmer



Offshore skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Lamor rigid sweeping arms (12 m) with weir/brush skimmer module (LJS 12)

Boom

Markleen single point inflation boom, 2x250 m (Uniboom X-1900)

Skimmer

Lamor offshore brush skimmer (LFF 100 2C)

Slick detection

Miros oil slick detection system

Additional equipment

Gas Detector, Mini Lab, Flashpoint tester, Cleaning mach.



Boom



Slick detection

ABOUT THE VESSEL - Bahia Uno



The Bahia Uno is a bunkering vessel







IMO Number: 9312274 Flag State: Spain

Port of Registry: Santa Cruz de Tenerife

Type: Product Tanker

Built: 2004 Length: 71.01 m Breadth: 15.60 m Max. Draft: 5.80 m DWT: 3808 Ton

Gross Tonnage: 2200 Ton Net Tonnage: 1110 Ton Storage capacity: 3800 m³ Heating capacity: 1490 kW Pumping capacity: 1400 m³/h

Flash Point: >60°

Propeller: Fixed Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Bureau Veritas



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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East Piraeus, Greece	3000
Aegis**	Supply Vessel		950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Tankship Management

CONTRACTED VESSEL(S)

Salina Bay

AREA OF ECONOMIC OPERATION

Central Mediterranean Sea

STOCKPILE LOCATION

La Spezia, Italy

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 24 hours

ABOUT THE SERVICE

Tankship Management was set up in 1985 to manage and operate tanker vessels, and is a subsidiary of Malta-based Virtu Holding Ltd., which operates passenger transport, bunkering, ship repairing, fendering and shipping services. Virtu Holding's facilities include an oil storage facility and floating dry dock.

The arrangement is based on the oil tanker Salina Bay. The tanker carries out most of its bunkering operations close to the port and can be mobilised at short notice.



Sweeping arm



Offshore skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Koseq rigid sweeping arms (12 m) with weir skimmer

Boon

Markleen single point inflation boom, 2x250 m (Uniboom

La Spezia

X-1900) Skimmer

Desmi weir/brush/disc skimmer (Tarantula)

Slick detection

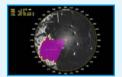
Seadarq oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester, Portable cleaning machine



Boom



Slick detection

ABOUT THE VESSEL - Salina Bay



The Salina Bay's commercial activity is bunker operations.







IMO Number: 8013118 Flag State: Malta Port of Registry: Valletta

Type: Oil Tanker Built: 1981 Length: 74.70 m Breadth: 13.10 m Max. Draft: 5.53 m DWT: 3027 Ton

Gross Tonnage: 1676 Ton Storage capacity: 2800 m³ Heating capacity: 2800 kW Pumping capacity: 1975 m³/h

Flash Point: >60°

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Lloyds Register



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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East Piraeus, Greece	3000
Aegis**	Supply Vessel		950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

- This is a pool of three similar sized tankers from which one fully
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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Tankship Management

CONTRACTED VESSEL(S)

Mistra Bay

AREA OF ECONOMIC OPERATION

Valletta port and neighbouring area, Malta

STOCKPILE LOCATION

Valletta, Malta

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 49 hours



ABOUT THE SERVICE

Tankship Management was originally set up in 1985 to manage and operate tanker vessels. The company is a subsidiary of Virtu Holding Ltd., a group which operates passenger transport, bunkering, ship repairing, fendering and shipping in general. The consortium has facilities in Malta for a 25,000 tonne land-based oil storage facility and a 130 m floating dry dock with ancillary workshops for steel and machinery works.

The arrangement is based on the oil tanker Mistra Bay operating in Valletta port and the neighbouring area.



Sweeping arm



Skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Koseq rigid sweeping arms (12 m) with weir skimmer

Boon

Markleen single point inflation boom, 1x300 m (Uniboom

X-1900) Skimmer

Desmi weir skimmer (Tarantula)

Slick detection

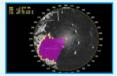
Seadarq oil slick detection system

Additional equipment

Oil water separator, Oil-in-water monitor, Gas detector, Mini Lab, Flashpoint tester, Portable cleaning machine



Boom



Slick detection

ABOUT THE VESSEL - Mistra Bay



The Mistra Bay's commercial activity is bunkering services.







IMO Number: 8009430 Flag State: Malta Port of Registry: Valletta

Type: Oil Tanker Built: 1981 Length: 86.03 m Breadth: 13.04 m Max. Draft: 5.19 m DWT: 3290 Ton

Gross Tonnage: 2072 Ton Storage capacity: 1805 m³ Heating capacity: 2326 kW Pumping capacity: 1770 m³/h

Flash Point: >60°

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots

Classification Society: Lloyds Register



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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

Note

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- equipped vessel and one partially equipped vessel can be mobilised.
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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Falzon Group Holdings

CONTRACTED VESSEL(S)

Santa Maria

AREA OF ECONOMIC OPERATION

Valletta and Marsaxlokk, Malta

STOCKPILE LOCATION

Marsaxlokk, Malta

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 24 hours

ABOUT THE SERVICE

Falzon Group was the first entity in Malta to be given a bunker operator's licence by the Maltese authorities. The company is today a reputable bunker trader and supplier on the Maltese Islands. The marine industry serviced by the Falzon Group comprises not only locally-owned and operated vessels, but also vessels and seacraft visiting the islands for commercial and leisure purposes.

The vessel Santa Maria provides bunkering services, with an equipment stockpile located in Valletta.



Sweeping arm



Normar multiskimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Koseq rigid sweeping arms (15 m) with weir skimmer

Marsaxlokk

Boor

Desmi heavy duty boom, 2x250 m (Ro-Boom 2000)

Skimmer

Noren weir/brush high-capacity multiskimmer (Normar

200TI)

Slick detection

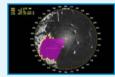
Seadarq oil slick detection system

Additional equipment

Oil water separator, Oil-in-water monitor, Gas detector, Mini Lab, Flashpoint tester, Portable cleaning machine



Heavy duty boom



Slick detection

ABOUT THE VESSEL - Santa Maria



The Santa Maria's commercial activity is bunkering services.







IMO Number: 7423732 Flag State: Malta Port of Registry: Valletta

Type: Oil Tanker Built: 1977 Length: 93.10 m Breadth: 14.05 m Draft: 6.82 m

Gross Tonnage: 2813 Ton Storage capacity: 2421 m³ Heating capacity: 3630 kW Pumping capacity: 1780 m³/h

Flash Point: <60°

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 14 knots

Classification Society: Lloyds Register



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

Note

- This is a pool of three similar sized tankers from which one fully
- equipped vessel and one partially equipped vessel can be mobilised.
- *** Alexandria is expected to enter into the Stand-by phase of the Contract in mid 2011.





QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

AEGEAN SEA

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Environmental Protection Engineering (EPE)

CONTRACTED VESSEL(S)

Aktea OSRV, Aegis

AREA OF ECONOMIC OPERATION

Aegean sea/Greek islands

STOCKPILE LOCATION

Piraeus, Greece

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 20 hours

ABOUT THE SERVICE

The arrangement includes a tanker, Aktea OSRV, trading in Greek waters and a stockpile permanently installed onboard. The second vessel, Aegis, is a back-up vessel equipped with a boom and a skimmer.

Environmental Protection Engineering is one of the major companies in the field of environmental protection in Greece and the wider area of the Eastern Mediterranean, with a variety of activities: marine pollution response, wreck removal, waste management, remediation and handling of polluted or destroyed cargoes.



Sweeping arm



Foilex skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Koseq rigid sweeping arms (15 m) with weir skimmer

Piraeus

Booi

Markleen single point inflation, 2x250 m (Uniboom X-1900)

Desmi heavy duty boom, 2x250 m (Ro-Boom 2000)

Skimmer

Foilex weir skimmer (TDS 250 Ocean)

Desmi weir/brush/disc skimmer (Tarantula)

Slick detection

Seadarq oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester, Cleaning mach.



Markleen boom



Boom deployed

ABOUT THE VESSEL - Aktea OSRV



The Aktea OSRV's commercial activity is oil trading.







IMO Number: 8801321 Flag State: Greece Port of Registry: Piraeus

Type: Oil Tanker Built: 1989 Length: 78.50 m Breadth: 12.60 m Max Draft: 6.20 m DWT: 2500 Ton

Gross Tonnage: 1646 Ton Storage capacity: 3000 m³ Heating capacity: 3000 kW Pumping capacity: 1000 m³

Flash Point: <60°

Propeller: Contrllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12.6 knots

Classification Society: Lloyds Register

QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

NETWORK OF STAND-BY OIL SPILL RECOVERY VESSELS - INFO SHEET

ABOUT THE VESSEL- Aegis



The Aegis is an ofshore supply vessel







IMO Number: 7432082 Flag State: Greece

Built: 1976

Type: Supply Vessel Length: 65.00 m Breadth: 14.00 m Max. Draft: 5.90 m DWT: 1920 Tons

Gross Tonnage: 1380 Tons Net Tonnage: 414 Tons Storage capacity: 950 m³ Flash Point: >60°C

Propeller: 2 x Fixed Pitch Propellers

Bow Thruster: Yes Max. speed: 15 knots Classification Society: DNV

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
- Sweeping arms tailored for recovery of heavy viscous oil



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Name	Туре	Area of Economic Operation and Equipment Depot	Tank Capacity (m³)
Kontio	Icebreaker	Baltic Sea North Oulu and Helsinki, Finland	2033
OW Aalborg	Chemical Product Tanker	Baltic Sea South Copenhagen and Skagen,	4487
OW Copenhagen	Chemical Product Tanker	Denmark	4487
DC Vlaanderen 3000	Suction Hopper Dredger	North Sea	2744
Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
Ria de Vigo	Supply Vessel	Atlantic Vigo, Spain	1522
Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

Note:

- * This is a pool of three similar sized tankers from which one fully
- ** Aegis is a back-up vessel equipped with boom and skimmer systems.
- *** Alexandria is expected to enter into the Stand-by phase of the Contract in mid 201

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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

Eastern Mediterranean

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

BG

CONTRACTOR

Petronav Ship Management

CONTRACTED VESSEL(S)

Alexandria

AREA OF ECONOMIC OPERATION

Eastern Mediterranean Sea

STOCKPILE LOCATION

Limassol, Cyprus

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 24 hours

ABOUT THE SERVICE

Petronav Ship Management Limited was established in 1998 and offers comprehensive shipmanagement services. The company is located in Limassol, Cyprus, and aims to provide high quality services with a long-term perspective. Currently, Petronav Ship Management operates five oil tankers.

The arrangement comprises the oil tanker Alexandria which transports oil between Haifa (Israel) and Cyprus mainly for its own bunkering vessels. The pollution response equipment will be permanently stored onboard the Alexandria.



Sweeping arm



Oil transfer pump

EQUIPMENT STOCKPILE

Sweeping arms

Two Lamor rigid sweeping arms (15 m) with weir/brush skimmer module (LSS 15)

Boom

Lamor heavy duty single point inflation boom, 2x250 m (LAN 2200)

Skimmer

Lamor free floating weir/brush skimmer (LWS 1300)

Detection

Miros oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester, Cleaning mach.



Skimmer



Limassol

SY

Boom deployed

ABOUT THE VESSEL - Alexandria



The Alexandria's commercial activity is as an oil tanker.







IMO Number: 944889 Flag State: Cyprus Port of Registry: Limassol

Type: Oil Tanker Length: 94.00 m Breadth: 18.50 m Max. Draft: 9.60 m DWT: 6379 Ton

Gross Tonnage: 5034 Ton Net Tonnage: 1686 Ton Storage capacity: 7458 m³ Heating capacity: 5742 kW Pumping capacity: 1850 m³/h

Flash Point: <60°

Propeller: Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12.6 knots Classification Society: ABS



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
- Flexibility of the response systems allows different operational configurations
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Interballast III	Suction Hopper Dredger	Ostend, Belgium	1886
Forth Fisher*	Product Tanker		4754
Galway Fisher*	Oil Tanker	Atlantic Cobh, Ireland	4754
Mersey Fisher*	Product Tanker		5028
Sara	Oil Tanker	Atlantic/Channel Portland, the UK	6658
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Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
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Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
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QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

BLACK SEA

NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

CONTRACTOR

Grup Servicii Petroliere (GSP)

CONTRACTED VESSEL(S)

GSP Orion

AREA OF ECONOMIC OPERATION

Constanta Oilfield, 30 nm off Constanta

STOCKPILE LOCATION

Constanta, Romania

NUMBER OF VESSELS TO BE MOBILISED

1

MOBILISATION TIME

Within 16 hours

ABOUT THE SERVICE

GSP is a member of Upetrom Group and is headquartered in Constanta Harbour, Romania. GSP is a regional leader in offshore drilling, providing a wide range of offshore drilling and connected services, engineering solutions and technical consultancy.

The arrangement consists of one vessel (the GSP Orion, 1334 m³ recovered oil storage capacity) with one equipment stockpile in Constanta, Romania. For oil recovery operations rigid sweeping arms, boom and two skimmer systems are available.



Sweeping arms



Brush skimmer

EQUIPMENT STOCKPILE

Sweeping arms

Two Lamor rigid sweeping arms (12 m) with weir/brush skimmer module (LSS 12)

Boom

RO

BG

Lamor heavy duty boom, 2x250 m (HDB 2000)

Skimmer

Framo weir/shovel drum high-capacity multiskimmer

(Transrec 150)

Lamor free floating brush skimmer (LFF 100 2C)

Slick detection

Miros oil slick detection system

Additional equipment

Gas detector, Mini Lab, Flashpoint tester, Cleaning mach.



Heavy duty boom



Constanta

TR

Transrec multiskimmer

ABOUT THE VESSEL - GSP ORION



The GSP Orion's commercial activity is supplying oil rigs.







IMO number: 8102517 Flag state: Isle of Man Port of registry: Douglas Type: Supply Vessel

Built: 1983 Length: 60.00 m Breadth: 16.80 m Max draft: 6.20 m DWT: 3003 Ton

Gross Tonnage: 1599 Ton Storage capacity: 1334 m³ Heating capacity: 1700 kW Pumping capacity: 830 m³/h

Flash Point: >60°

Propeller: 2 x Controllable Pitch Propeller

Bow Thruster: Yes Max. speed: 12 knots Classification Society: DNV



QUALITY SHIPPING, SAFER SEAS, CLEANER OCEANS

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NETWORK OF STAND-BY OIL SPILL RESPONSE VESSELS - INFO SHEET

ADVANTAGES OF RESPONSE SYSTEMS

- State of the art equipment which provides good effectiveness for pollution response
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Mersey Fisher*	Product Tanker		5028
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Bahia Tres	Product Tanker	Atlantic Sines, Portugal	7413
Bahia Uno	Product Tanker	Mediterranean West Algeciras, Spain	3800
Salina Bay	Oil Tanker	Mediterranean West La Spezia, Italy	2800
Mistra Bay	Oil Tanker	Mediterranean Central Valletta, Malta	1805
Santa Maria	Oil Tanker	Mediterranean Central Valletta, Malta	2421
Aktea OSRV	Oil Tanker	Mediterranean East	3000
Aegis**	Supply Vessel	Piraeus, Greece	950
Alexandria***	Oil Tanker	Mediterranean East Limassol, Cyprus	7458
GSP Orion	Supply Vessel	Black Sea Constanta, Romania	1334

Note

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Vessel Data Sheets



Kontio

Contractor: Arctia Icebreaking



Ship Particulars

Vessel Type: Icebreaker
Storage Capacity: 2033 m³
Length: 98.60 m
Breadth: 24.20 m
Draught: 8.00 m
Heating Capacity: 3.08 MW
Pumping Capacity: 700 m³/h

Stockpile: Oulu (Winter) and Helsinki (Summer)

Finland

OSR Vessel:

Kontio



Response Equipment

Sweeping Arms

Type: RigidLength: 12 m

• Skimmer: Weir/Brush

Boom

Type: Heavy dutyLength: 2 x 250 m

Skimmer

Type: Brush

Remotely controlled



OW Aalborg

Contractor: Lamor Corporation/OW Bunkers



Ship Particulars

Vessel Type: Chemical Product Tanker

Storage Capacity:4487 m³Length:90.50 mBreadth:14.60 mDraught:5.41 mHeating Capacity:3488 kWPumping Capacity:1500 m³/h

Stockpiles:

Copenhagen (Denmark) Skagen (Denmark)

OSR Vessels:

OW Aalborg
OW Copenhagen



Response Equipment

Sweeping Arms

Type: FlexibleLength: 15.6 mSkimmer: Brush/Weir

Boom

Type: Single point inflationLength: 1 x 400 m

Skimmer

- Types:
 - 1 x Brush
 - 2 x Arctic
- · Brush Remotely controlled



OW Copenhagen

Contractor: Lamor Corporation/OW Bunkers



Ship Particulars

Chemical Product Tanker **Vessel Type:**

Storage Capacity: 4487 m³ Length: 90.50 m **Breadth:** 14.60 m **Draught:** 5.30 m **Heating Capacity:** 3600 kW **Pumping Capacity:** 1500 m³/h

 Type: Flexible Length: 15.6 m Skimmer: Brush/Weir

Sweeping Arms

Response Equipment

Booms

Type: Single point inflation

• Length: 2 x 250 m

Skimmer

Type: Brush

Remotely controlled

Slick Detection Radar

Stockpiles:

Copenhagen (Denmark) Skagen (Denmark)

OSR Vessels:

OW Aalborg OW Copenhagen





DC Vlaanderen 3000

Contractor: DC Industrial



Ship Particulars

Vessel Type: Suction Hopper Dredger

Storage Capacity: 2744 m³
Length: 89.20 m
Breadth: 14.00 m
Draught: 6.60 m
Heating Capacity: 1226 kW
Pumping Capacity: 1460 m³/h

Stockpile:
Ostend (Belgium)

OSR Vessels:

DC Vlaanderen 3000
Interballast III



Response Equipment

Sweeping Arms

Type: RigidLength: 12 mSkimmer: Weir

Boom

• Type: Heavy duty single point inflation

• Length: 2 x 250 m

Skimmer

Type: Weir

Remotely controlled



Interballast III

Contractor: DC Industrial



Ship Particulars

Vessel Type: Suction Hopper Dredger

Storage Capacity: 1886 m³
Length: 65.40 m
Breadth: 13.20 m
Draught: 6.40 m
Heating Capacity: 785 kW
Pumping Capacity: 1400 m³/h

Stockpile:
Ostend (Belgium)

OSR Vessels:

DC Vlaanderen 3000
Interballast III



Response Equipment

Sweeping Arms

Type: RigidLength: 12 mSkimmer: Weir

Boom

• Type: Heavy Duty single point

inflation

• Length: 2 x 250 m

Skimmer

Type: Weir

Remotely controlled



Forth Fisher

Contractor: James Fisher Everard



Ship Particulars

Vessel Type: Product Tanker

Storage Capacity: 4754 m³
Length: 91.00 m
Breadth: 15.58 m
Draught: 6.20 m
Heating Capacity: 3488 kW
Pumping Capacity: 3400 m³/h

Stockpile: Cobh (Ireland)

OSR Vessels:

Forth Fisher Galway Fisher Mersey Fisher



Response Equipment*

Sweeping Arms

Type: RigidLength: 15 mSkimmer: Weir

Boom (x2)

Type: Heavy duty single point inflation

• Length: 2 x 250 m

Skimmer (x2)

Type: Weir

· Remotely controlled

Slick Detection Radar (x2)

* This is a pool of three similar sized tankers from which one fully equipped vessel (sweeping arms, boom and skimmer) and one partially equipped vessel (boom and skimmer) can be mobilised.



Galway Fisher

Contractor: James Fisher Everard



Ship Particulars

Vessel Type: Oil Tanker
Storage Capacity: 4754 m³
Length: 91.00 m
Breadth: 15.58 m
Draught: 6.20 m
Heating Capacity: 3883 kW
Pumping Capacity: 3400 m³/h

Stockpile: Cobh (Ireland)

OSR Vessels: Forth Fisher Galway Fisher

Mersey Fisher



Response Equipment*

Sweeping Arms

Type: RigidLength: 15 mSkimmer: Weir

Boom (x2)

Type: Heavy duty single point inflation

Length: 2 x 250 m

Skimmer (x2)

Type: Weir

· Remotely controlled

Slick Detection Radar (x2)

* This is a pool of three similar sized tankers from which one fully equipped vessel (sweeping arms, boom and skimmer) and one partially equipped vessel (boom and skimmer) can be mobilised.



Mersey Fisher

Contractor: James Fisher Everard



Ship Particulars

Vessel Type: Product Tanker

Storage Capacity: 5028 m³
Length: 91.40 m
Breadth: 15.50 m
Draught: 6.02 m
Heating Capacity: 2907 kW
Pumping Capacity: 1930 m³/h

Stockpile: Cobh (Ireland)

OSR Vessels:

Forth Fisher Galway Fisher Mersey Fisher



Response Equipment*

Sweeping Arms

Type: RigidLength: 15 mSkimmer: Weir

Boom (x2)

• Type: Heavy duty single point inflation

Length: 2 x 250 m

Skimmer (x2)

Type: Weir

· Remotely controlled

Slick Detection Radar (x2)

* This is a pool of three similar sized tankers from which one fully equipped vessel (sweeping arms, boom and skimmer) and one partially equipped vessel (boom and skimmer) can be mobilised.



Sara

Contractor: Aegean Bunkers at Sea



Ship Particulars

Vessel Type: Oil Tanker **Storage Capacity:** 6658 m³ Length: 111.30 m 16.50 m **Breadth: Draught:** 7.00 m **Heating Capacity:** 2394 kW **Pumping Capacity:** 2550 m³/h

Stockpile:

Portland (United Kingdom)

OSR Vessel:

Sara



Response Equipment

Sweeping Arms

 Type: Rigid • Length: 15 m

Skimmer: Weir/Brush

Boom

 Type: Heavy duty single point inflation

• Length: 2 x 250 m

Skimmer

Type: Weir/Brush/Disc



Ria de Vigo

Contractor: Remolcanosa



Ship Particulars

Vessel Type: Supply Vessel

Storage Capacity: 1522 m³
Length: 69.00 m
Breadth: 13.50 m
Draught: 6.80 m
Heating Capacity: 750 kW
Pumping Capacity: 625 m³/h

Stockpile:

Vigo (Spain)

OSR Vessel: Ria de Vigo



Response Equipment

Sweeping Arms

Type: RigidLength: 13 mSkimmer: Weir

Booms:

Type: Heavy dutyLength: 2 x 250 m

Skimmer

- Type 1: Weir/Shovel drum multiskimmer (High-capacity)
- Type 2: Weir
- Both remotely controlled



Bahia Tres

Contractor: Lamor Corporation/Mureloil



Ship Particulars

Vessel Type: Product Tanker

Storage Capacity:7413 m³Length:99.80 mBreadth:18.00 mDraught:7.00 mHeating Capacity:2300 kWPumping Capacity:2050 m³/h

Stockpile:

Sines (Portugal)

OSR Vessels:

Bahia Tres



Response Equipment

Sweeping Arms

Type: RigidLength: 12 m

Skimmer: Weir/Brush

Boom

• Type: Single point inflation

• Length: 2 x 250 m

Skimmer

• Type: Brush

Remotely controlled



Bahia Uno

Contractor: Mureloil



Ship Particulars

Vessel Type: Product Tanker

Storage Capacity:3800 m³Length:71.01 mBreadth:15.60 mDraught:5.80 mHeating Capacity:1490 kWPumping Capacity:1600 m³/h

Stockpile:
Algeciras (Spain)

OSR Vessels:



Response Equipment

Sweeping Arms

Type: RigidLength: 12 m

• Skimmer: Weir/Brush

Boom

• Type: Single point inflation

• Length: 2 x 250 m

Skimmer

· Type: Brush

Remotely controlled



Salina Bay

Contractor: Tankship Management



Ship Particulars

Vessel Type:Oil TankerStorage Capacity:2800 m³Length:74.70 mBreadth:13.10 mDraught:5.53 mHeating Capacity:2800 kWPumping Capacity:1975 m³/h

Stockpile: La Spezia (Italy)

OSR Vessel: Salina Bay



Response Equipment

Sweeping Arms

Type: RigidLength: 12 mSkimmer: Weir

Boom

Type: Single point inflation

• Length: 2 x 250 m

Skimmer

Type: Weir/Brush/DiscRemotely controlled



Mistra Bay

Contractor: Tankship Management



Ship Particulars

Vessel Type:Oil TankerStorage Capacity:1805 m³Length:86.03 mBreadth:13.04 mDraught:5.19 mHeating Capacity:2326 kWPumping Capacity:1770 m³/h

Stockpile: Valletta (Malta)

OSR Vessel: Mistra Bay



Response Equipment

Sweeping Arms

Type: RigidLength: 12 mSkimmer: Weir

Boom

• Type: Single point inflation

• Length: 300 m

Skimmer

· Type: Weir

Remotely controlled



Santa Maria

Contractor: Falzon Group Holdings



Ship Particulars

Vessel Type: Oil Tanker
Storage Capacity: 2421 m³
Length: 93.10 m
Breadth: 14.05 m
Draught: 6.82 m
Heating Capacity: 3630 kW
Pumping Capacity: 1780 m³/h

Stockpile:
Marsaxlokk (Malta)

OSR Vessel: Santa Maria



Response Equipment

Sweeping Arms

Type: RigidLength: 15 mSkimmer: Weir

Booms

Type: Heavy dutyLength: 2 x 250 m

Skimmer

- Type: Weir/Brush multiskimmer (High-capacity)
- Remotely controlled



Aktea OSRV

Contractor: Environmental Protection Engineering



Ship Particulars

Vessel Type:Oil TankerStorage Capacity:3000 m³Length:78.50 mBreadth:12.60 mDraught:4.87 mHeating Capacity:3000 kWPumping Capacity:1000 m³/h

Stockpile:

Piraeus (Greece)

OSR Vessels:

Aktea OSRV Aegis (back-up)



Response Equipment

Sweeping Arms

Type: RigidLength: 15 mSkimmer: Weir

Boom

• Type: Single point inflation

• Length: 2 x 250 m

Skimmer

Type: Weir

Remotely controlled



Aegis*

Contractor: Environmental Protection Engineering



Ship Particulars

Vessel Type: Supply Vessel

Storage Capacity:950 m³Length:65.00 mBreadth:14.00 mDraught:5.90 m

Response Equipment

Boom:

Type: Heavy dutyLength: 2 x 250 m

Skimmer

Type: Weir/DiscRemotely controlled

Stockpile: Piraeus (Greece)

OSR Vessels:

Aktea OSRV Aegis (back-up)



* Aegis is the back-up vessel for the Aktea OSRV



Alexandria*

Contractor: Petronav Ship Management



Ship Particulars

Vessel Type: Oil Tanker
Storage Capacity: 7458 m³
Length: 94.00 m
Breadth: 18.50 m
Draught: 9.60 m
Heating Capacity: 5742 kW
Pumping Capacity: 1850 m³/h

Stockpile:

Limassol (Cyprus)

OSR Vessel:

Alexandria



Response Equipment

Sweeping Arms

Type: RigidLength: 15 m

• Skimmer: Weir/Brush

Boom

Type: Heavy duty single point inflation

IIIIation

• Length: 2 x 250 m

Skimmer

Type: Weir/Brush

Slick Detection Radar

* Alexandria is expected to enter into Stand-by phase of the Contract in mid 2011



GSP Orion

Contractor: Grup Servicii Petroliere



Ship Particulars

Vessel Type: Supply Vessel

Storage Capacity: 1334 m³
Length: 60.00 m
Breadth: 16.80 m
Draught: 6.20 m
Heating Capacity: 1700 kW
Pumping Capacity: 830 m³/h

Stockpile: • Constanta (Romania)

OSR Vessel:
GSP Orion



Response Equipment

Sweeping Arms

Type: RigidLength: 12 m

• Skimmer: Weir/Brush

Boom

Type: Heavy dutyLength: 2 x 250 m

Skimmer

- Type 1: Weir/Shovel drum multiskimmer (High-capacity)
- Type 2: Brush
- · Both remotely controlled

Pollution Response Equipment (Examples)





Rigid Sweeping Arm with integrated weir skimmer



Rigid Sweeping Arm with integrated brush skimmer





Heavy Duty Boom (segmented)



Single Point Inflation Boom





Brush Skimmer

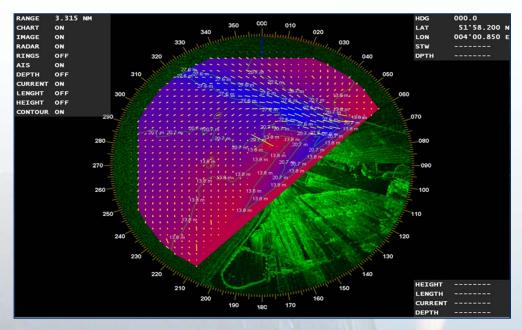


Weir Skimmer





High-capacity Multiskimmer (Shovel Drum Head)



Oil Slick Detection Radar