Memorandum to USEPA
Commonwealth of Massachusetts
March 7, 2013
Revised (Rev 2) Request for Expansion of Deep-Draft Berth Area
New Bedford Marine Commerce Terminal (NBMCT)

Introduction

The Commonwealth had proposed that the USEPA allow potential expansions to the deep draft area of the New Bedford Marine Commerce Terminal of 200 feet to the north and 100 feet to the south within its June 18, 2012 submission to EPA.

EPA indicated within its Final Determination (issued November 18, 2012) that it did not authorize the proposed expansions of the Deep Draft berth, but that it would consider new or additional information subsequent to its issuance of the Final Determination.

The Commonwealth met with EPA on March 6, 2013 to discuss alteration of EPA's Final Determination to include the expansion of the deep draft area both 200 feet to the north and 100 feet to the south. *As a result of the discussions at that meeting, the Commonwealth is hereby revising its request by eliminating the request to expand the deep-draft berth to the south and is now only requesting that the deep-draft berth be extended 200 feet to the north.*

This memorandum outlines the data supporting expansion of the deep-draft dredge area and then outlines the Commonwealth's commitment to funding the expansion, should EPA approve the work. The Commonwealth request for EPA approval of this modification prior to the commencement of project construction.

Data Supporting Expansion of the Deep-Draft Dredge Area

The deep-draft area should be sufficiently long enough to accommodate all offshore renewable energy international vessels as well as future cargo vessels, in order to keep the utilization of the facility at its maximum.

The method utilized for determining an appropriate berthing length is promulgated by the United States Defense Department, and is included within the Unified Facilities Criteria document Design of Piers and Wharves (UFC-4-152, see excerpt included within **Attachment A**). This document highlights that vessel berths should include 50 feet between the ends of the vessel and the end of the pier, to allow for sufficient room for vessels to dock. The document recommends utilizing the largest possible vessel for making this determination.

SDMS Doc ID 540348

Although the design vessel for the facility (BBC Mississippi, 143 meters or 469 feet in length) would be accommodated in such a situation (as a 600 foot berth would allow for 50 feet on either end), other, longer vessels are anticipated to be accommodated at the new terminal, as discussed within previous submissions to EPA, and outlined below.

The following table outlines general cargo vessels that can be utilized for international cargo to the new terminal. The vessels have the same beam as the design vessel for the facility, but are between 500 and 600 feet in length.

Vessel	Length (Meters)**	Length (Feet)	Beam (Meters)**	Draft (Meters)**
BBC Mississippi	143	469	23	7.2
Kapitan Sviridov	181	594	23	6.5
Sandpiper	161	528	23	8.6
Ocean	157	515	24	8.5
Transosprey	174	571	22	8.3
Emotion	169	554	24	8.8
Margaret SW	159	521	23	7.5
Hornbay	154	505	23	8.8
CSL Atlantic	160	524	24	9.1
Tor Botnia	162	531	20	5.8
Fenella	159	522	23	9.6
Transreel	166	545	22	7.2

** As noted on www.marinetraffic.com, or otherwise included within **Attachment B**.

Utilizing the UFC berthing criteria, to accommodate these cargo vessels, the berth should be approximately 700 feet in length (600 foot long vessel that accommodates an additional 50 feet on either side).

In addition, future cargo vessels are anticipated to be larger. Some of the newer vessels are already greater than 700 feet in length. The attached table outlines five vessels that are no wider than the proposed design vessel, but are over 700 feet in length.

Vessel	Length (Meters)**	Length (Feet)**	Beam (Meters)**	Draft (Meters)**
BBC Mississippi	143	469	23	7.2
Baie St. Paul	225	738	24	7.7
Salarium	222	728	22	7.4
Frontenac	223	732	23	7.1
Birchglen	222	728	23	8
Richelieu	222	728	23	6.8

** As noted on www.marinetraffic.com, or otherwise included within **Attachment B**.

To accommodate these vessels, a berth of up to 850 feet would be required, in accordance with the UFC berthing criteria (750 foot long vessel that accommodates an additional 50 feet on either side).

A 600 foot long deep-draft berth will not accommodate the full range of vessels (both renewable energy vessels and future cargo vessels) that can enter and maneuver within New Bedford Harbor, as outlined above, which will limit the utility of the future terminal. The Commonwealth believes that the available data on cargo vessels that are anticipated to be utilized at the new facility indicate that it is important for the Commonwealth to increase the length of the deep-draft dredging in front of the bulkhead by 200 feet to the north.

Environmental Impact Considerations and Sediment Characterization Of the Northern Berthing Area Expansion

As stated earlier within this document, the Commonwealth had previously requested expansion of the deep-draft bulkhead by both 200 feet to the north and 100 feet to the south, but is revising its request by eliminating the request to expand the deep-draft berth to the south and is now only requesting that the deep-draft berth be extended 200 feet to the north.

The Commonwealth is aware that increasing the length of the deep-draft berth to the south would incur the loss of additional Winter Flounder Spawning Habitat (as the area to the south is proposed to be dredged only to -14 MLLW), whereas increasing the length of the deep-draft berth to the north would not impact additional Winter Flounder Spawning Habitat (as the area to the north is already dredged to -20 MLLW). Therefore, it would appear that, given the choice between the two options, that increasing the deep-draft berth to the north would be the Least Environmentally Damaging Practicable Alternative between these two potential expansions.

Additionally, the expansion of the deep-draft berth 200 feet to the north will result in the removal of additional sediment impacted by PCBs that would not otherwise be addressed by EPA.

The Commonwealth has already committed to increased mitigation to compensate for the loss of Winter Flounder habitat associated with expansion of the deep-draft berth 100 feet to the south. As the Commonwealth will eliminate its request for expansion of the deep-draft berth 100 feet to the south, it will also commit to completing the additional mitigation as proposed.

A map showing the existing bathymetry and the proposed deep-draft expansion to the north is included as **Attachment C**.

The Commonwealth has previously collected sediment samples for chemical analysis from the area of the proposed expansion; therefore, the Commonwealth does not believe that additional

characterization of this area will be required in order for EPA to approve the expansion of the deep-draft berth 200 feet to the north. A map showing the existing results samples collected and analyzed for PCBs in the vicinity of the proposed deep-draft berth extension 200 feet to the north is included as **Attachment D**.

Commonwealth Commitment to Fund the Northern Berthing Area Expansion

The Commonwealth has carefully considered the benefit in providing the funding for the proposed expansion and has determined that it is an important and sound investment. Expansion of the deep-draft berth at the new terminal will help to allow the New Bedford Marine Commerce Terminal to be as advanced and flexible as possible for the offshore wind industry as well as future cargo operations. The Commonwealth is committed to funding and constructing the proposed expansion.

Attachment A

i. Do not permit pier interferences such as utilities and deck appurtenances in the zone of elevators for CVN (#1, #2, and #3), LHA, or LHD. At times these ships may have to move off of their normal berth bridge mark, i.e. move CVN offshore for ordnance load or move LHA/LHD toward bulkhead for stern gate ramp placement. Objective is to keep edge of pier free of obstructions.

j. Provide parking for ship's government and privately owned vehicles in proximity to entrance to the pier or wharf.

k. Provide sufficient security for ships on the pier. Consider minimally manned ships. See also paragraph 2-6.

l. Provide safety equipment.

2-3.2 **Pier and Wharf Length**.

2-3.2.1 **Single Berth**.

The length of pier or wharf should equal the overall length of the largest ship to be accommodated, plus an allowance of 50 ft (15.2 m) at each end of the ship. For aircraft carriers, increase the allowance at each end of the vessel to 100 ft (30.5 m.) Refer to Figure 2-3. Single berths are used by LHA, LHD (amphibious assault ships); T-AKE, T-AO, T-AOE, (auxiliary); and CVNs.

2-3.2.2 **Multiple Berths**.

The length of a pier or wharf should equal the total overall length of the largest ships simultaneously accommodated, plus clear distance allowances of 100 ft (30.5 m) between ships and 50 ft (15.2 m) beyond outermost moored ships. Refer to Figure 2-3. Multiple berths are used by DD 963, CG 47, DDG 51, FFG 7 (surface combatants) and SSN, SSBN submarines.

2-3.2.3 **Container and RO/RO Berths**.

The length of berths used for container or RO/RO berths should account for the requirements of the container cranes or special ramps. Where shipboard ramps are used, provide adequate berth length to allow for efficient vehicle maneuvering.

2-3.2.4 **Submarine Berths**.

For most classes of submarines, a 50-ft (15.2-m) end distance to a quaywall or bulkhead is adequate. The nose-to-tail spacing for multiple berthing should also be a minimum of 50 ft (15.2 m.) However, large submarines such as the Ohio class (Trident) require 150 ft (45.7 m) or more nose-to-tail spacing and clearance to bulkhead or quay wall. Where explosive safety distance considerations

Attachment B

BBC MISSISSIPPI

Contribute to this page

Vessel's Details

Ship Type: Cargo
Year Built: 2007
Length x Breadth: 143 m X 23 m
DeadWeight: 14000 t
Speed recorded (Max / Average): 15.5 / 14 knots
Flag: Antigua Barbuda [AG]
Call Sign: V2CG5
IMO: 9347061, **MMSI:** 304164000

Last Position Received

Area: Indian Ocean
Latitude / Longitude: -28.74346° / 32.51878° (Map)
Currently in Port:
Last Known Port: DURBAN
Info Received: 18d 10h 6min ago
Not Currently in Range
Itineraries History

Voyage Related Info (Last Received)

Draught: 6.6 m
Destination: DURBAN
ETA: 2011-11-01 07:00
Info Received: 2011-11-03 01:14 (18d, 15h 25min ago)

Recent Port Calls:

No Records Found

Ex Names History

No Records Found

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Ship Photos: 20
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner: Briese Schiffahrts GmbH & Co. KG

Manager: Briese Schiffahrts GmbH & Co. KG
Built (Year/Month): 2007
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage):
NT (Net Tonnage):
DWT (Deadweight): 14000
Displacement:
LOA (Length Overall): 143
Beam: 23
Draft (max): 7.2
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:

Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

BAIE ST.PAUL

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Bulk carrier
Year Built: 2012
Length x Breadth: 225 m X 24 m
Gross Tonnage: 24430, **DeadWeight:** 37690 t
Speed recorded (Max / Average): 13.3 / 13 knots
Flag: Canada [CA]
Call Sign: CFN6120
IMO: 9601027, **MMSI:** 316022391

Last Position Received

Area:
Latitude / Longitude: 6.114218° / 126.5775° (Map)
Currently in Port:
Last Known Port: SHANGHAI
Info Received: 20d 4h 31min ago
Not Currently in Range
Itineraries History

Voyage Related Info (Last Received)

Draught: 7.7 m
Destination: BALBOA PANAMA
ETA: 2012-11-18 04:00
Info Received: 2012-11-06 20:50 (0d, 5h 34min ago)

Recent Port Calls:

No Records Found

Ex Names History

No Records Found

No photos for this ship
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: BULK CARRIER
Owner:
Manager:
Built (Year/Month): 2012/6
Builder:
Hull Number:
Class: Lloyds Register
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 32000
NT (Net Tonnage):
DWT (Deadweight): 56000
Displacement:
LOA (Length Overall):
Beam:
Draft (max):
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:

Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

BIRCHGLEN

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Vessel's Details

Ship Type: Bulk carrier
Year Built: 1983
Length x Breadth: 222 m X 23 m
Gross Tonnage: 22388, **DeadWeight:** 36249 t
Speed recorded (Max / Average): 13.6 / 11.3 knots
Flag: Canada [CA]
Call Sign: VOTT
IMO: 8119273, **MMSI:** 316004880

Last Position Received

Area: Atlantic North
Latitude / Longitude: 42.9088° / -82.45782° (Map)
Currently in Port:
Last Known Port: ALGONAC
Info Received: 0d 0h 0min ago

Current Vessel's Track

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.1 m
Destination: THUNDER BAY
ETA: 2012-11-09 08:00
Info Received: 2012-11-07 21:25 (0d, 4h 1min ago)

Recent Port Calls:

No Records Found

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
BIRCHGLEN	Canada	VOTT	2012-11-07 23:01
ALGOSOO	Canada	VGJD	2010-08-17 21:51
MACKENZIE			2003-03-30 00:00
MACKENZIE			2002-12-23 00:00
FEDERAL MACKENZIE			2001-06-05 00:00
FEDERAL RICHELIEU			1991-07-29 00:00
CANADA MARQUIS			1991-01-21 00:00

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Ship Photos: 37
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Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1983/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 22388
NT (Net Tonnage):
DWT (Deadweight): 36249
Displacement:
LOA (Length Overall): 222

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

Beam: 23
Draft (max): 8
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

CSL ATLANTIC

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Vessel's Details

Ship Type: Bulk carrier
Year Built: 1981
Length x Breadth: 160 m X 24 m
Gross Tonnage: 14454, **DeadWeight:** 23683 t
Speed recorded (Max / Average): 13.8 / 13.3 knots
Flag: Malta [MT]
Call Sign: 9HGB8
IMO: 8103171, **MMSI:** 215946000

Last Position Received

Area: Australia
Latitude / Longitude: -38.35215° / 144.5471° (Map)
Currently in Port:
Last Known Port: THEVENARD
Info Received: 0d 0h 1min ago

Current Vessel's Track

Wind: 3 knots, 245°, 15°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 8.9 m
Destination: MELBOURNE
ETA: 2012-11-08 03:00
Info Received: 2012-11-07 21:45 (0d, 2h 44min ago)

Recent Port Calls:

No Records Found

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
CAPO NOLI			2007-07-16 00:00
TIMPE			1995-11-01 00:00
CYNTHIA NO.4			1988-07-21 00:00
GREAT TEMPO			1986-07-30 00:00
WORLD TEMPO			1985-04-26 00:00

Ship Photos: 23
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Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1981/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Tonnage & Dimensions

GT (Gross Tonnage): 14454
NT (Net Tonnage):
DWT (Deadweight): 23683
Displacement:
LOA (Length Overall): 160
Beam: 24
Draft (max): 9.1
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

EMOTION

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Vessel's Details

Ship Type: Container ship
Year Built: 2008
Length x Breadth: 169 m X 24 m
Gross Tonnage: 15924, **DeadWeight:** 20082 t
Speed recorded (Max / Average): 18 / 14.6 knots
Flag: Netherlands [NL]
Call Sign: PBKY
IMO: 9359258, **MMSI:** 244874000

Last Position Received

Area: Gulf of Finland
Latitude / Longitude: 60.1368° / 27.5442° (Map)
Currently in Port:
Last Known Port: KRONSHTADT
Info Received: 0d 0h 1min ago

Current Vessel's Track

Wind: 26 knots, 290°, 4°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.9 m
Destination: HELSINKI
ETA: 2012-11-08 08:00
Info Received: 2012-11-07 20:09 (0d, 4h 34min ago)

Recent Port Calls:

Port	Arrival (LT)	Departure (LT)
KRONSHTADT		2012-11-08 00:06
ST PETERSBURG		2012-11-07 21:22
ST PETERSBURG	2012-11-06 17:00	
GDYNIA		2012-11-05 04:12
GDYNIA	2012-11-04 19:51	

More...

Ex Names History

No Records Found

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Ship Photos: 195
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Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 2007
Builder: Peene-Werft
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 15924
NT (Net Tonnage):
DWT (Deadweight): 18000
Displacement:
LOA (Length Overall): 171

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

Beam: 26
Draft (max): 8.8
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

FENELLA

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Vessel's Details

Ship Type: Cargo
Year Built: 1986
Length x Breadth: 159 m X 23 m
Gross Tonnage: 13567, **DeadWeight:** 22969 t
Speed recorded (Max / Average): 15.5 / 13.9 knots
Flag: Liberia [LR]
Call Sign: A8YX7
IMO: 8501581, **MMSI:** 636092234

Last Position Received

Area: California
Latitude / Longitude: 31.3564° / -118.7966° (Map)
Currently in Port:
Last Known Port: PANAMA ANCH PACIFIC
Info Received: 0d 0h 5min ago

Current Vessel's Track

Wind: 13 knots, 308°, 18°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 5.7 m
Destination: BALBOA-PANAMA
ETA: 2012-11-17 22:00
Info Received: 2012-11-07 22:01 (0d, 2h 21min ago)

Recent Port Calls:

No Records Found

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
FENELLA	Liberia	A8YX7	2012-11-07 23:01
FENELLA	Bahamas	C6RL3	2011-04-15 23:29
VIRGINIA RAINBOW			1993-05-01 00:00

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Ship Photos: 14
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager: MST
Built (Year/Month): 1986/
Builder: Ishikawajima-Harima Heavy Industries Co Ltd (IHI) - Aioi HG
Hull Number:
Class:
Service Status: In Service
Year scrapped/lost:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Tonnage & Dimensions

GT (Gross Tonnage): 13567
NT (Net Tonnage):
DWT (Deadweight): 22969
Displacement:
LOA (Length Overall): 159
Beam: 23
Draft (max): 9.6
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

FRONTENAC

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Bulk carrier
Year Built: 1968
Length x Breadth: 223 m X 23 m
Gross Tonnage: 17808, **DeadWeight:** 26365 t
Speed recorded (Max / Average): 12.9 / 10.3 knots
Flag: Canada [CA]
Call Sign: VGNB
IMO: 6804848, **MMSI:** 316001834

Last Position Received

Area: Atlantic North
Latitude / Longitude: 47.40359° / -89.04331° (Map)
Currently in Port:
Last Known Port: SAULT STE. MARIE
Info Received: 0d 0h 1min ago

Current Vessel's Track

Wind: 10 knots, 244°, 5°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.1 m
Destination: DULUTH
ETA: 2012-11-08 13:30
Info Received: 2012-11-07 22:07 (0d, 3h 17min ago)

Recent Port Calls:

No Records Found

Ex Names History

No Records Found

Ship Photos: 29
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1968/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 17808
NT (Net Tonnage):
DWT (Deadweight): 26326
Displacement:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

LOA (Length Overall): 222
Beam: 24
Draft (max): 7
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

HORNBAY

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Ro-ro/container carrier
Year Built: 1990
Length x Breadth: 154 m X 23 m
Gross Tonnage: 12887, **DeadWeight:** 9096 t
Speed recorded (Max / Average): 10.3 / 8.5 knots
Flag: Liberia [LR]
Call Sign: ELML7
IMO: 8802002, **MMSI:** 636009174

Last Position Received

Area: California
Latitude / Longitude: 27.77859° / -115.5044° (Map)
Currently in Port:
Last Known Port: PUERTO BOLIVAR
Info Received: 0d 0h 1min ago

Current Vessel's Track

Wind: 14 knots, 328°, 21°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 8.5 m
Destination: PTO.BOLIVAR
ETA: 2012-11-14 18:00
Info Received: 2012-11-07 22:01 (0d, 2h 23min ago)

Recent Port Calls:

No Records Found

Ex Names History

No Records Found

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Ship Photos: 20
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1990/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Tonnage & Dimensions

GT (Gross Tonnage): 12887
NT (Net Tonnage):
DWT (Deadweight): 9096
Displacement:
LOA (Length Overall): 153
Beam: 23
Draft (max): 8.8
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

KAPITAN SVIRIDOV

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Bulk carrier
Year Built: 1982
Length x Breadth: 181 m X 23 m
Gross Tonnage: 16253, **DeadWeight:** 23357 t
Speed recorded (Max / Average): 13.4 / 9.8 knots
Flag: Russia [RU]
Call Sign: UCKD
IMO: 8218706, **MMSI:** 273132500

Last Position Received

Area: North Sea
Latitude / Longitude: 61.49361° / 2.985033° (Map)
Currently in Port:
Last Known Port: LEITH
Info Received: 0d 0h 0min ago

Current Vessel's Track

Wind: 15 knots, 69°, 7°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 6.5 m
Destination: KANDALAKSHA
ETA: 2012-11-14 12:00
Info Received: 2012-11-07 20:21 (0d, 4h 16min ago)

Recent Port Calls:

Port	Arrival (LT)	Departure (LT)
LEITH		2012-11-06 04:27

More...

Ex Names History

No Records Found

Ship Photos: 22
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1982/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Tonnage & Dimensions

GT (Gross Tonnage): 16253
NT (Net Tonnage):
DWT (Deadweight): 19240
Displacement:
LOA (Length Overall): 181
Beam: 23
Draft (max): 6.2
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

MARGARET SW

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Cargo
Year Built: 2012
Length x Breadth: 159 m X 23 m
Gross Tonnage: 15861, **DeadWeight:** 25010 t
Speed recorded (Max / Average): 11.1 / 8.8 knots
Call Sign: 3EYE3
IMO: 9495583, **MMSI:** 373139000

Last Position Received

Area: Bothnia Gulf
Latitude / Longitude: 63.69654° / 20.34478° (Map)
Currently in Port: HOLMSUND
Last Known Port: HOLMSUND
Info Received: 0d 0h 2min ago

Current Vessel's Track

Wind: 13 knots, 291°, 1°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.5 m
Destination: UMEA
ETA: 2012-11-02 06:20
Info Received: 2012-11-07 22:14 (0d, 2h 33min ago)

Recent Port Calls:

Port	Arrival (LT)	Departure (LT)
HOLMSUND	2012-11-02 07:11	
PORI		2012-11-01 17:13

More...

Ex Names History

No Records Found

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AdChoices

Ship Photos: 3

Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type:
Owner:
Manager:
Built (Year/Month): 0/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 15800
NT (Net Tonnage):
DWT (Deadweight): 24000
Displacement:
LOA (Length Overall):

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

Beam:
Draft (max):
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

OCEAN

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Container ship
Year Built: 1996
Length x Breadth: 157 m X 24 m
Gross Tonnage: 12029, **DeadWeight:** 14587 t
Speed recorded (Max / Average): 18.9 / 13.4 knots
Flag: Antigua Barbuda [AG]
Call Sign: V2FN
IMO: 9127021, **MMSI:** 304210000

Last Position Received

Area: Mexico Gulf
Latitude / Longitude: 28.6616° / -80.23206° (Map)
Currently in Port:
Last Known Port: JACKSONVILLE
Info Received: 0d 0h 1min ago

Current Vessel's Track

Wind: 19 knots, 312°, 18°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.6 m
Destination: PORT EVERGLADES
ETA: 2012-11-08 10:00
Info Received: 2012-11-07 17:04 (0d, 7h 13min ago)

Recent Port Calls:

No Records Found

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
CALA PROVIDENCIA			2004-01-03 00:00
URUNDI			2001-10-19 00:00
ANKARA			1998-05-07 00:00

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Ship Photos: 17
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1996/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 12029
NT (Net Tonnage):
DWT (Deadweight): 14587
Displacement:
LOA (Length Overall): 157

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

Beam: 24
Draft (max): 8.5
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

RICHELIEU

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Bulk carrier
Year Built: 1980
Length x Breadth: 222 m X 23 m
Gross Tonnage: 22734, **DeadWeight:** 28595 t
Speed recorded (Max / Average): 10.5 / 9.6 knots
Flag: Canada [CA]
Call Sign: XJAE
IMO: 7901150, **MMSI:** 316013860

Last Position Received

Area: Atlantic North
Latitude / Longitude: 45.55903° / -73.52201° (Map)
Currently in Port:
Last Known Port: MONTREAL
Info Received: 1d 1h 1min ago
Not Currently in Range
Itineraries History

Voyage Related Info (Last Received)

Draught: 6.4 m
Destination: MONTREAL
ETA: 2012-09-27 06:00
Info Received: 2012-11-07 00:22 (1d, 1h 5min ago)

Recent Port Calls:

No Records Found

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
RICHELIEU	Canada	XJAE	2012-11-07 00:22
RICHELIEU	Marshall Is	V7TA6	2010-06-15 18:20
LAKE ERIE	Marshall Is	V7AL2	2009-07-04 22:28
FEDERAL OTTAWA			1995-03-22 00:00

Ship Photos: 33
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1980/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 22734
NT (Net Tonnage):
DWT (Deadweight): 35630
Displacement:
LOA (Length Overall): 222

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

Beam: 23
Draft (max): 6.8
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

SALARIUM

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Bulk carrier
Year Built: 1980
Length x Breadth: 222 m X 22 m
Gross Tonnage: 21870, **DeadWeight:** 35686 t
Speed recorded (Max / Average): 11.7 / 9.6 knots
Flag: Canada [CA]
Call Sign: VCQL
IMO: 7902233, **MMSI:** 316043000

Last Position Received

Area: Atlantic North
Latitude / Longitude: 47.22989° / -52.6378° (Map)
Currently in Port:
Last Known Port: QUEBEC
Info Received: 0d 17h 1min ago
Not Currently in Range
Itineraries History

Voyage Related Info (Last Received)

Draught: 7.4 m
Destination: MAGDALEN ISLANDS
ETA: 2012-11-08 18:26
Info Received: 2012-11-07 07:52 (0d, 17h 33min ago)

Recent Port Calls:

No Records Found

Ex Names History

No Records Found

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Ship Photos: 19
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Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1980/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Tonnage & Dimensions

GT (Gross Tonnage): 22706
NT (Net Tonnage):
DWT (Deadweight): 35686
Displacement:
LOA (Length Overall): 222
Beam: 79
Draft (max): 7
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

SANDPIPER

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Bulk carrier
Year Built: 1971
Length x Breadth: 161 m X 23 m
Gross Tonnage: 14116, **DeadWeight:** 20366 t
Speed recorded (Max / Average): 13.2 / 10.1 knots
Flag: Panama [PA]
Call Sign: 3ERG6
IMO: 7039414, **MMSI:** 370042000

Last Position Received

Area: North Sea
Latitude / Longitude: 59.37379° / 6.031718° (Map)
Currently in Port:
Last Known Port: SULLOM VOE
Info Received: 0d 0h 2min ago

Current Vessel's Track

Wind: 14 knots, 253°, 9°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.2 m
Destination: JELSA
ETA: 2012-11-08 02:00
Info Received: 2012-11-07 22:01 (0d, 2h 39min ago)

Recent Port Calls:

No Records Found

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
SEAWAY SANDPIPER			1990-09-22 00:00
TEMPLE HALL			1978-01-10 00:00

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AdChoices

Ship Photos: 23

Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1971/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 14116
NT (Net Tonnage):
DWT (Deadweight): 20366
Displacement:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

LOA (Length Overall): 157
Beam: 23
Draft (max): 8.6
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

TOR BOTNIA

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Ro-ro cargo
Year Built: 2000
Length x Breadth: 162 m X 20 m
Gross Tonnage: 11530, **DeadWeight:** 8000 t
Speed recorded (Max / Average): 16 / 10.7 knots
Flag: Lithuania [LT]
Call Sign: LYTB
IMO: 9192129, **MMSI:** 277399000

Last Position Received

Area: Baltic Sea
Latitude / Longitude: 57.26048° / 18.96628° (Map)
Currently in Port:
Last Known Port: KRONSHTADT
Info Received: 0d 0h 2min ago

Current Vessel's Track

Wind: 15 knots, 244°, 7°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 5.8 m
Destination: KARLSHAMN
ETA: 2012-11-08 12:00
Info Received: 2012-11-07 22:03 (0d, 2h 50min ago)

Recent Port Calls:

Port	Arrival (LT)	Departure (LT)
ST PETERSBURG		2012-11-06 23:30
ST PETERSBURG	2012-11-06 04:55	
KIEL		2012-11-03 19:32
KIEL	2012-11-02 22:16	
COPENHAGEN		2012-11-02 11:23

More...

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
TOR BOTNIA	Lithuania	LYTB	2012-11-07 22:57
FINNMASTER	United Kingdom	MZCY9	2009-01-20 13:47

Ship Photos: 44
Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 2000/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Tonnage & Dimensions

GT (Gross Tonnage): 11530
NT (Net Tonnage):
DWT (Deadweight): 8000
Displacement:
LOA (Length Overall): 162
Beam: 20
Draft (max): 5.3
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

TRANSOSPREY

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Cargo
Year Built: 2003
Length x Breadth: 174 m X 22 m
Gross Tonnage: 16037, **DeadWeight:** 20396 t
Speed recorded (Max / Average): 14.6 / 12.7 knots
Flag: Gibraltar [GI]
Call Sign: ZDKB4
IMO: 9213090, **MMSI:** 236586000

Last Position Received

Area: Bothnia Gulf
Latitude / Longitude: 65.11964° / 25.03011° (Map)
Currently in Port:
Last Known Port: OULU
Info Received: 0d 0h 2min ago

Current Vessel's Track

Wind: 15 knots, 256°, 3°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 6.1 m
Destination: OULU
ETA: 2012-11-02 04:30
Info Received: 2012-11-02 03:31 (5d, 21h 13min ago)

Recent Port Calls:

Port	Arrival (LT)	Departure (LT)
OULU	2012-11-02 09:47	

More...

Ex Names History

Vessel's Name	Flag	Call Sign	Last Reported
TRANSOSPREY	Gibraltar	ZDKB4	2012-11-02 03:31
PRINSENBORG	Netherlands	PBJF	2010-11-05 09:13

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AdChoices

Ship Photos: 43
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Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 2003/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 16037
NT (Net Tonnage):
DWT (Deadweight): 16740
Displacement:

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:

LOA (Length Overall): 174
Beam: 22
Draft (max): 8.3
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main Model:
Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

TRANSREEL

Contribute to this page Add to My Fleet

Vessel's Details

Ship Type: Ro-ro cargo
Year Built: 1987
Length x Breadth: 166 m X 22 m
Gross Tonnage: 18773, **DeadWeight:** 11396 t
Speed recorded (Max / Average): 15.2 / 12.1 knots
Flag: Sweden [SE]
Call Sign: SLRP
IMO: 8515893, **MMSI:** 265150000

Last Position Received

Area: Baltic Sea
Latitude / Longitude: 54.22369° / 11.47379° (Map)
Currently in Port:
Last Known Port: IGGESUND
Info Received: 0d 0h 2min ago

Current Vessel's Track

Wind: 27 knots, 246°, 7°C

Itineraries History

Voyage Related Info (Last Received)

Draught: 7.2 m
Destination: LUBECK
ETA: 2012-11-07 16:00
Info Received: 2012-11-07 22:03 (0d, 2h 54min ago)

Recent Port Calls:

Port	Arrival (LT)	Departure (LT)
IGGESUND		2012-11-05 19:45
SUNDSVALL		2012-11-05 09:21
SUNDSVALL	2012-11-05 06:02	
HUSUM		2012-11-04 20:47
HOLMSUND		2012-11-04 09:53

More...

Ex Names History

No Records Found

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AdChoices

Ship Photos: 38

Upload a photo

Vessel's Wiki

Edit this vessel Vessel for Sale? History of changes

Ship Type: DRY CARGO
Owner:
Manager:
Built (Year/Month): 1987/
Builder:
Hull Number:
Class:
Service Status:
Year scrapped/lost:

Tonnage & Dimensions

GT (Gross Tonnage): 18773
NT (Net Tonnage):
DWT (Deadweight): 11396
Displacement:
LOA (Length Overall): 166

Capacity

Holds/Tanks:
Hatches:
Gear:
Bale:
Grain:
TEU:
PAX:
Cars:
Trucks:
RoRo Lanes Length:
Liquid Capacity:
Liquid Gas Capacity:
Oil Capacity:
Number of Pumps:
Pumps Cpacity:

Engines

Number of Main Engine(s):
Main Engine builder:
Main Model:

Beam: 22
Draft (max): 4.9
Depth:
Height:

Ship's Communication numbers

Sat Telex:
Sat Phone:
Sat Fax:
Mobile:

Main RPM:
Main power: /
Main Fuel:
Main Consumption:

Number of Auxiliary Engine(s):
Aux Engine builder:
Aux Model:
Aux RPM:
Aux power: /
Aux Fuel:
Aux Consumption:

Bowthruster:
Propeller(s):

ATTACHMENT C

APEX

ROCKVILLE, MD
SOUTH WINDSOR, CT - BOSTON, MA - NEW BEDFORD, MA - HOLYOKE, MA

184 HIGH STREET, SUITE 502
BOSTON, MA 02210

58H CONNECTICUT AVENUE
SOUTH WINDSOR, CT

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BOSTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY

PROJECT NO.	6690
CADD FILE	
DESIGNED BY	JER
DRAWN BY	JER
CHECKED BY	
DATE	06/5/2012
DRAWING SCALE	1"=200'

GRAPHIC SCALE

SCALE: 1"=200'

0 100 200 400

SHEET TITLE

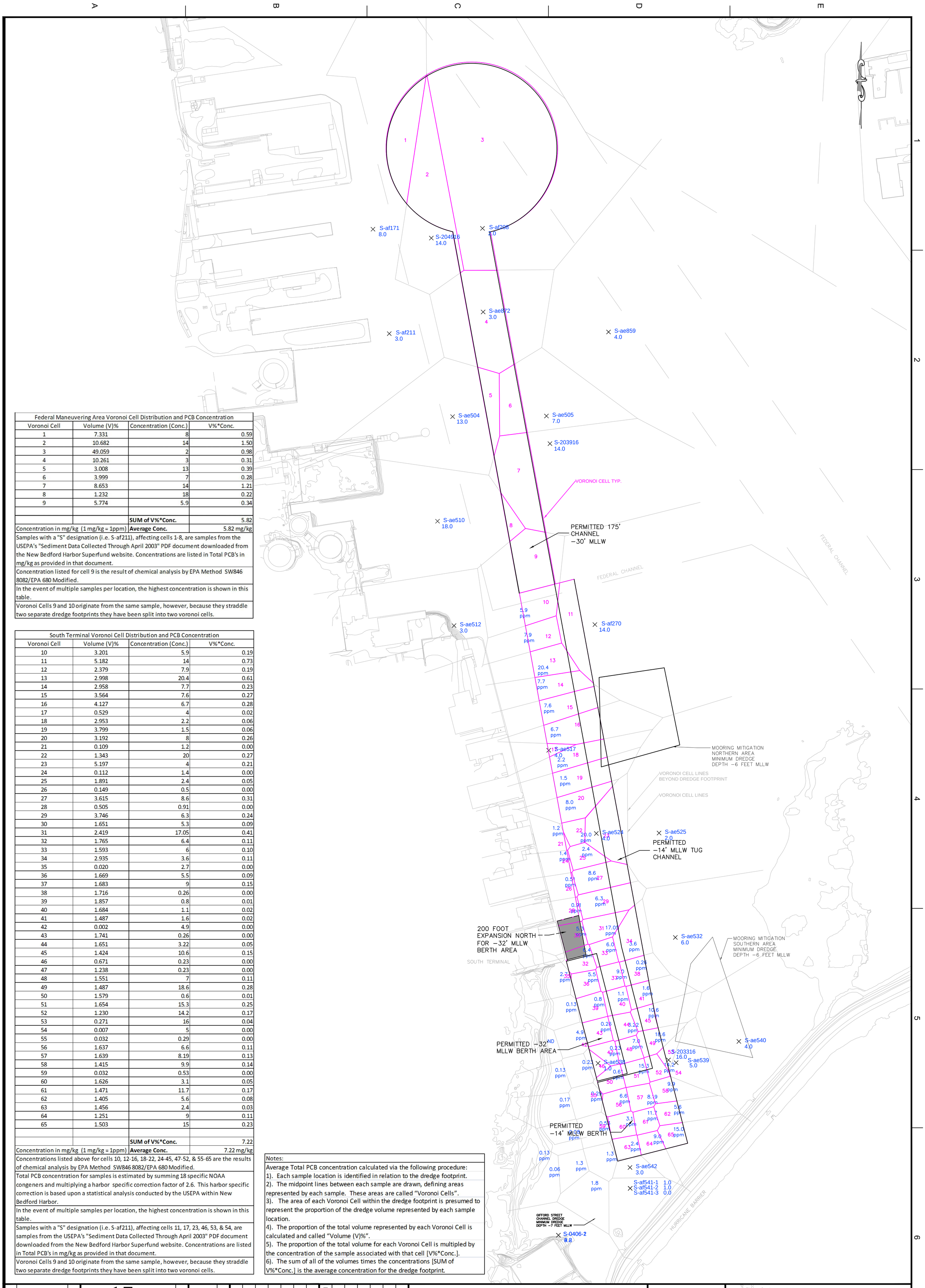
SOUTH TERMINAL AND FEDERAL MANUEVERING AREA BATHYMETRY WITH EXPANDED BERTH

DRAWING NO.

V-5.4

1 OF 1

ATTACHMENT D



Federal Maneuvering Area Voronoi Cell Distribution and PCB Concentration			
Voronoi Cell	Volume (V)%	Concentration (Conc.)	V%*Conc.
1	7.331	8	0.59
2	10.682	14	1.50
3	49.059	2	0.98
4	10.261	3	0.31
5	3.008	13	0.39
6	3.999	7	0.28
7	8.653	14	1.21
8	1.232	18	0.22
9	5.774	5.9	0.34
		SUM of V%*Conc.	5.82
Concentration in mg/kg (1 mg/kg = 1ppm)		**Average Conc.**	5.82 mg/kg

Samples with a "S" designation (i.e. S-af211), affecting cells 1-8, are samples from the USEPA's "Sediment Data Collected Through April 2003" PDF document downloaded from the New Bedford Harbor Superfund website. Concentrations are listed in Total PCB's in mg/kg as provided in that document.

Concentration listed for cell 9 is the result of chemical analysis by EPA Method SW846 8082/EPA 680 Modified.

In the event of multiple samples per location, the highest concentration is shown in this table.

Voronoi Cells 9 and 10 originate from the same sample, however, because they straddle two separate dredge footprints they have been split into two voronoi cells.

South Terminal Voronoi Cell Distribution and PCB Concentration			
Voronoi Cell	Volume (V)%	Concentration (Conc.)	V%*Conc.
10	3.201	5.9	0.19
11	5.182	14	0.73
12	2.379	7.9	0.19
13	2.998	20.4	0.61
14	2.958	7.7	0.23
15	3.564	7.6	0.27
16	4.127	6.7	0.28
17	0.529	4	0.02
18	2.953	2.2	0.06
19	3.799	1.5	0.06
20	3.192	8	0.26
21	0.109	1.2	0.00
22	1.343	20	0.27
23	5.197	4	0.21
24	0.112	1.4	0.00
25	1.891	2.4	0.05
26	0.149	0.5	0.00
27	3.615	8.6	0.31
28	0.505	0.91	0.00
29	3.746	6.3	0.24
30	1.651	5.3	0.09
31	2.419	17.05	0.41
32	1.765	6.4	0.11
33	1.593	6	0.10
34	2.935	3.6	0.11
35	0.020	2.7	0.00
36	1.669	5.5	0.09
37	1.683	9	0.15
38	1.716	0.26	0.00
39	1.857	0.8	0.01
40	1.684	1.1	0.02
41	1.487	1.6	0.02
42	0.002	4.9	0.00
43	1.741	0.26	0.00
44	1.651	3.22	0.05
45	1.424	10.6	0.15
46	0.671	0.23	0.00
47	1.238	0.23	0.00
48	1.551	7	0.11
49	1.487	18.6	0.28
50	1.579	0.6	0.01
51	1.654	15.3	0.25
52	1.230	14.2	0.17
53	0.271	16	0.04
54	0.007	5	0.00
55	0.032	0.29	0.00
56	1.637	6.6	0.11
57	1.639	8.19	0.13
58	1.415	9.9	0.14
59	0.032	0.53	0.00
60	1.626	3.1	0.05
61	1.471	11.7	0.17
62	1.405	5.6	0.08
63	1.456	2.4	0.03
64	1.251	9	0.11
65	1.503	15	0.23
		SUM of V%*Conc.	7.22
Concentration in mg/kg (1 mg/kg = 1ppm)		**Average Conc.**	7.22 mg/kg

Concentrations listed above for cells 10, 12-16, 18-22, 24-45, 47-52, & 55-65 are the results of chemical analysis by EPA Method SW846 8082/EPA 680 Modified.

Total PCB concentration for samples is estimated by summing 18 specific NOAA congeners and multiplying a harbor specific correction factor of 2.6. This harbor specific correction is based upon a statistical analysis conducted by the USEPA within New Bedford Harbor.

In the event of multiple samples per location, the highest concentration is shown in this table.

Samples with a "S" designation (i.e. S-af211), affecting cells 11, 17, 23, 46, 53, & 54, are samples from the USEPA's "Sediment Data Collected Through April 2003" PDF document downloaded from the New Bedford Harbor Superfund website. Concentrations are listed in Total PCB's in mg/kg as provided in that document.

Voronoi Cells 9 and 10 originate from the same sample, however, because they straddle two separate dredge footprints they have been split into two voronoi cells.

Notes:

Average Total PCB concentration calculated via the following procedure:

1). Each sample location is identified in relation to the dredge footprint.

2). The midpoint lines between each sample are drawn, defining areas represented by each sample. These areas are called "Voronoi Cells".

3). The area of each Voronoi Cell within the dredge footprint is presumed to represent the proportion of the dredge volume represented by each sample location.

4). The proportion of the total volume represented by each Voronoi Cell is calculated and called "Volume (V)%".

5). The proportion of the total volume for each Voronoi Cell is multiplied by the concentration of the sample associated with that cell [V%*Conc.].

6). The sum of all of the volumes times the concentrations [SUM of V%*Conc.] is the average concentration for the dredge footprint.

DRAFT

PROJECT

NEW BEDFORD
MARINE COMMERCE
TERMINAL

OWNER

MASSACHUSETTS CLEAN ENERGY CENTER
55 SUMMER STREET, 9TH FLOOR
BOSTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY

APEX
ROCKVILLE, MD
SOUTH WINDSOR, CT - BOSTON, MA - NEW BEDFORD, MA - HOLYOKE, MA
184 HIGH STREET, SUITE 502
BOSTON, MA 02210
58H CONNECTICUT AVENUE
SOUTH WINDSOR, CT

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SOUTH TERMINAL AND FEDERAL MANUEVERING AREA VORONOI CELL WITH EXPANDED BERTH

DRAWING NO.

V-5.4

1 OF 1