

Chapter 5 – Appendix K

Book 1: Baseline Risk Levels

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Check the block that best describes the condition in this waterway

Vessel Conditions: Deep Draft Vessel Quality

Nearly 100% of the deep draft commercial vessels using the waterway are materially sound and are operated proficiently

90% of the deep draft commercial vessels using the waterway are materially sound and are operated proficiently

80% of the deep draft commercial vessels using the waterway are materially sound and are operated proficiently

70% or less of deep draft commercial vessels using the waterway are materially sound and are operated proficiently

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Vessel Conditions: Shallow Draft Vessel Quality

Nearly 100% of the shallow draft commercial vessels using the waterway are materially sound and are operated proficiently

90% of the shallow draft commercial vessels using the waterway are materially sound and are operated proficiently

80% of the shallow draft commercial vessels using the waterway are materially sound and are operated proficiently

70% or less of the shallow draft commercial vessels using the waterway are materially sound and are operated proficiently

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Vessel Conditions: Commercial Fishing Vessel Quality

Nearly 100% of the commercial fishing vessels using the waterway are materially sound and are operated proficiently

90% of the commercial fishing vessels using the waterway are materially sound and are operated proficiently

80% of the commercial fishing vessels using the waterway are materially sound and are operated proficiently

70% or less of the commercial fishing vessels using the waterway are materially sound and are operated proficiently

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Vessel Conditions: Small Craft Quality

Nearly 100% of the small craft using the waterway are materially sound and are operated proficiently

90% of the small craft using the waterway are materially sound and are operated proficiently

80% of the small craft using the waterway are materially sound and are operated proficiently

70% or less of the small craft using the waterway are materially sound and are operated proficiently

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Traffic Conditions: Volume of Commercial Traffic

Light commercial traffic (less than 10 vessel transits per day)

Moderate commercial traffic (10-50 vessel transits per day)

Heavy commercial traffic (more than 50 vessel transits per day)
BUT waterway infrastructure handles load easily

Heavy commercial traffic (more than 50 vessel transits per day)
AND vessels regularly have to wait for berths

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Traffic Conditions: Volume of Small Craft Traffic

Light recreational use of the waterway

Moderate recreational use of the waterway

Heavy recreational use **BUT** seasonal

Heavy recreational use **YEAR ROUND**

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Traffic Conditions: Traffic Mix

Predominantly a single use waterway serving one interest (i.e., government, commerce, or recreation)

Multiple use waterway (government, commerce, and / or recreation) **BUT** no conflicts occurring

Multiple use waterway (government, commerce, and / or recreation) **AND** some **MINOR** conflict occurring

Multiple use waterway (government, commerce, and / or recreation) **AND MAJOR** conflicts occurring

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Traffic Conditions: Congestion

NO congestion ever occurs in the waterway

Congestion **ONLY** occurs in small areas for limited times

Congestion occurs regularly **BUT** flow of vessel traffic is **NOT** impeded

Congestion occurs regularly **AND** flow of vessel traffic **IS** impeded

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Navigational Conditions: Winds

Strong winds (20 knots sustained) occur **LESS** than twice a month **AND** well forecast

Strong winds (20 knots sustained) occur **MORE** than twice a month **BUT** well forecast

Strong winds (20 knots sustained) occur **LESS** than twice a month **BUT** without warning

Strong winds (20 knots sustained) occur **MORE** than twice a month **AND** without warning

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Navigational Conditions: Water Movement

Fastest tidal and / or seasonal currents are **WEAK**
(less than 2 knots)

Fastest tidal and / or seasonal currents are **MODERATE**
(2 – 5 knots)

Fastest tidal and / or seasonal currents are **STRONG**
(over 5 knots) **BUT** do **NOT** affect maneuverability

Fastest tidal and / or seasonal currents are **STRONG**
(over 5 knots) **AND** affect maneuverability

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Navigational Conditions: Visibility Restrictions

Restricted visibility (1/2 mile or less) occurs **LESS** than 24 days a year

Restricted visibility (1/2 mile or less) occurs **MORE** than 24 days a year **BUT** usually persists **LESS** than **6** hours

Restricted visibility (1/2 mile or less) occurs **MORE** than 24 days a year **BUT** usually persists **LESS** than **24** hours

Restricted visibility (1/2 mile or less) occurs **MORE** than 24 days a year **AND** usually persists **MORE** than **24** hours

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Navigational Conditions: Obstructions

NO obstructions, that is: ice never forms, no floating snags / deadheads, no dredging, and no fixed fishing gear

Some obstructions **BUT NOT** affecting navigation

Obstructions affecting **SOME** navigation

Obstructions affecting **ALL** navigation

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Waterway Conditions: Visibility Impediments

NO visual impediments on the waterway

Areas of the waterway where aids to navigation are obscured

Areas of the waterway where vessel movements are obscured

Areas of the waterway where **BOTH** vessel movements **AND** aids to navigation are obscured

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Waterway Conditions: Dimensions

Open roadstead; no waterway constrictions

Constricted waterway where passing arrangements are routinely needed

Constricted waterway with some **SHORT** stretches where large vessels generally avoid passing each other

Constricted waterway with **LONG** stretches where some large vessel passing can't be avoided **AND** involves close quarters encounters

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Waterway Conditions: Bottom Type

Deep water throughout the waterway; no channel is needed; vessel breakdown unlikely to result in grounding or allision

Soft bottom with **NO** hard obstructions outside channel

Sand, shale, or some hard obstructions outside of channel

Hard or rocky bottom lines the channel edges

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Waterway Conditions: Configuration

No turns over 45 degrees **AND** no convergences

One or more turns over 45 degrees **BUT** no convergences

No turns over 45 degrees **BUT** waterway has convergences

One or more turns over 45 degrees **AND** waterway has convergences

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Immediate Consequences: Personal Injuries

NO passenger vessels (i.e., dinner cruises, charter fishing, passenger ferries, cruise ships) using the waterway

ONLY small passenger vessels (less than 150 persons on board) using the waterway

Large passenger vessels (more than 150 persons on board) using the waterway **OCCASIONALLY**

Large passenger vessels (more than 150 persons on board) using the waterway **DAILY**

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Immediate Consequences: Petroleum Discharge

NO bulk petroleum cargo movements

Bulk petroleum cargo movements via tank barge **ONLY**

Bulk petroleum cargo movements via tank ships **UNDER**
40,000 GRT

Bulk petroleum cargo movements via tank ships **OVER**
40,000 GRT

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Immediate Consequences: Hazardous Materials Release

NO bulk hazardous material cargo movements

Bulk hazardous material cargo movements via tank barge
ONLY

Bulk hazardous material cargo movements via tank ships
UNDER 40,000 GRT

Bulk hazardous material cargo movements via tank ships
OVER 40,000 GRT

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Immediate Consequences: Mobility

Major marine casualty would **NOT** require a waterway closure

Major marine casualty would result in a waterway closure **BUT NOT** likely to disrupt the shoreside marine transportation system

Major marine casualty would result in waterway closure and cause **MINIMAL** disruption to the shoreside marine transportation system

Major marine casualty would result in waterway closure and cause **SIGNIFICANT** disruption to the shoreside marine transportation system

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Subsequent Consequences: Health and Safety

NO bulk hazardous cargoes moving on the waterway

Small population (under 50,000 people) near the waterway **WITH** bulk hazardous cargoes moving on the waterway

Medium population (50,000 to 100,000 people) near the waterway **WITH** bulk hazardous materials cargoes moving on the waterway

Large population (over 100,000 people) near the waterway **WITH** bulk hazardous materials cargoes moving on the waterway

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Subsequent Consequences: Environmental

Less than 10% of the waterway is environmentally sensitive

Between 10 – 50% of the waterway is environmentally sensitive

Between 50 – 90% of the waterway is environmentally sensitive

More than 90% of the waterway is environmentally sensitive

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Subsequent Consequences: Aquatic Resources

Very little harvesting of aquatic resources from this waterway

Moderate recreational fishing **BUT** little commercial harvesting of aquatic resources from this waterway

Heavy recreational fishing **OR** moderate commercial harvesting of aquatic resources from this waterway

Heavy recreational fishing **AND** heavy commercial harvesting of aquatic resources from this waterway

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Subsequent Consequences: Economic

Economic impact of waterway closure affects **ONLY** port area

Economic impact of waterway closure affects metropolitan area

Economic impact of waterway closure affects wide region

Economic impact of waterway closure affects entire nation