

RISK SYMBOLS

<p>Response Equipment Depot</p> <p>★ USCG ★ AD&E ★</p> <p>⊕ Frequent Fishing Vessel</p> <p>Tramper Offload Activities</p> <p>▬ Primary (≥20 loads) ▬ Secondary (≤20 loads)</p> <p>⊙ Key Nearshore Fishing Grounds</p> <p>Aleutian Subarea Noncrude Carrier Routes</p> <p>— = 227,272 Bbls (10 million gals.)</p> <p>— = 2,272,727 Bbls (100 million gals.)</p> <p>— = 18,181,818 Bbls (800 million gals.)</p> <p>— = 13 to 14 million Bbls #6 Oil Traffic to Asia 6000+/- vessels</p>	<p>Bulk Fuel Storage Sites > 5,000 bbls</p> <p>● - 5k-9,999 bbl.</p> <p>● - 10k-39,999 bbl.</p> <p>● - 40k-99,999 bbl.</p> <p>● - 100k-299,999 bbl.</p> <p>● - 300K-500,000 bbl.</p> <p>--- Zone Boundary</p> <p>⚓ Abandoned Canneries</p> <p>✈ Airport ✈ Airport, lighted</p> <p>⊕ Dock 🏗 Crane</p>	<p>Aleutian Subarea Spills >24 barrels 1994-2004</p> <p>● = Persistent ● = Non-Persistent</p> <p>■ - 24-71 bbl.</p> <p>■ - 72-142 bbl.</p> <p>▲ - 143-214 bbl.</p> <p>▲ - 215-285 bbl.</p> <p>◆ - 286-357 bbl.</p> <p>◆ - 358-428 bbl.</p> <p>● - 429-800 bbl.</p> <p>● - 801-2619 bbl.</p> <p>— Cruise and AMHS Ship Traffic</p>
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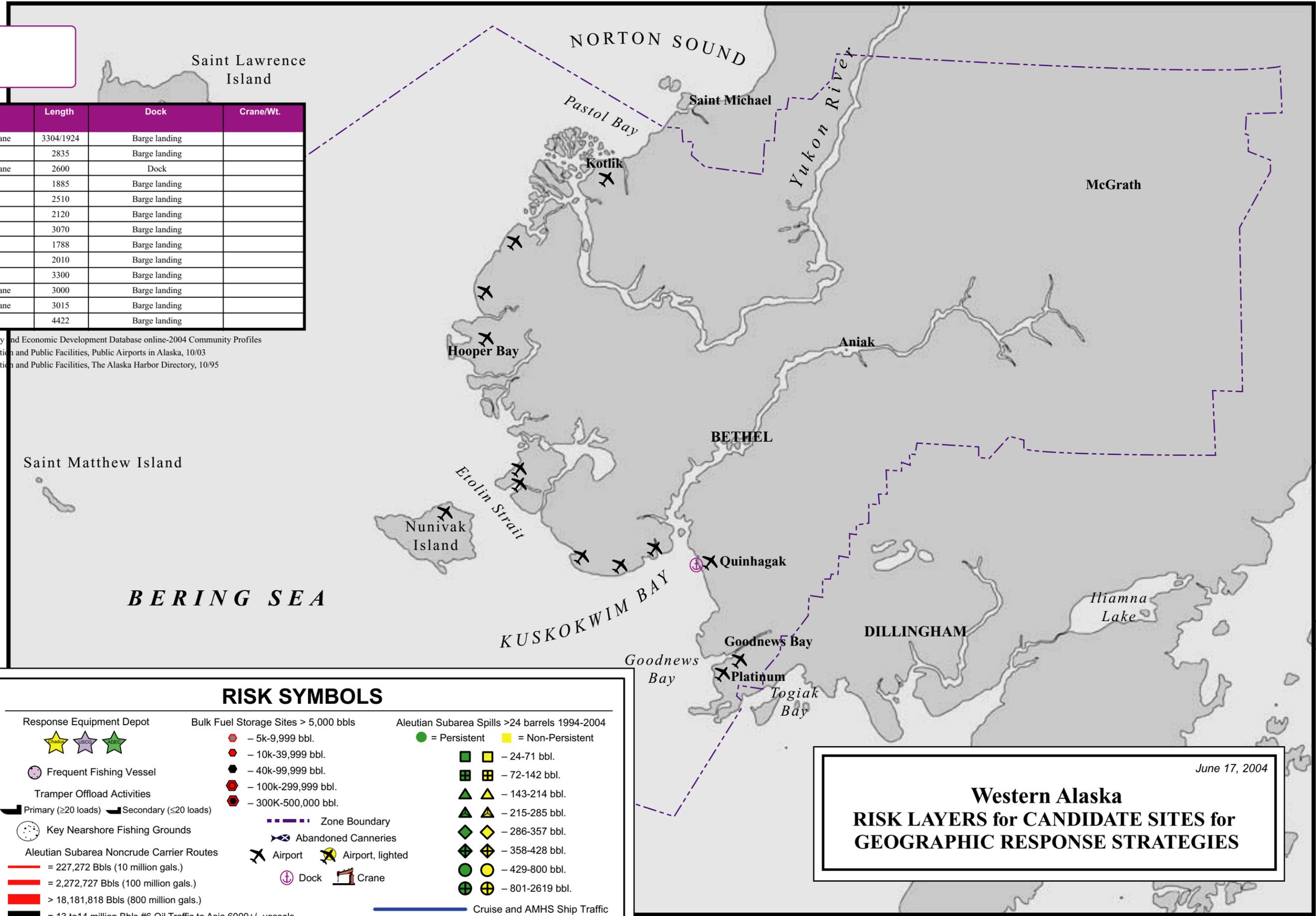
June 17, 2004

Western Alaska
RISK LAYERS for CANDIDATE SITES for
GEOGRAPHIC RESPONSE STRATEGIES

Logistics

Community Logistics	Airport	Length	Dock	Crane/Wt.
PLATINUM	Gravel/Seaplane	3304/1924	Barge landing	
GOODNEWS BAY	Gravel	2835	Barge landing	
QUINHAGAK	Gravel/Seaplane	2600	Dock	
KONGIGANAK	Gravel	1885	Barge landing	
KWIGILLINGOK	Gravel	2510	Barge landing	
KIPNUK	Gravel	2120	Barge landing	
MEKORYUK	Gravel	3070	Barge landing	
TOKSOOK BAY	Gravel	1788	Barge landing	
TUNUNAK	Gravel	2010	Barge landing	
HOOPER BAY	Paved	3300	Barge landing	
SCAMMON	Gravel/Seaplane	3000	Barge landing	
SHELDON POINT	Gravel/Seaplane	3015	Barge landing	
KOTLIK	Gravel	4422	Barge landing	

Reference-Alaska Department of Community and Economic Development Database online-2004 Community Profiles
 Reference-Alaska Department of Transportation and Public Facilities, Public Airports in Alaska, 10/03
 Reference-Alaska Department of Transportation and Public Facilities, The Alaska Harbor Directory, 10/95



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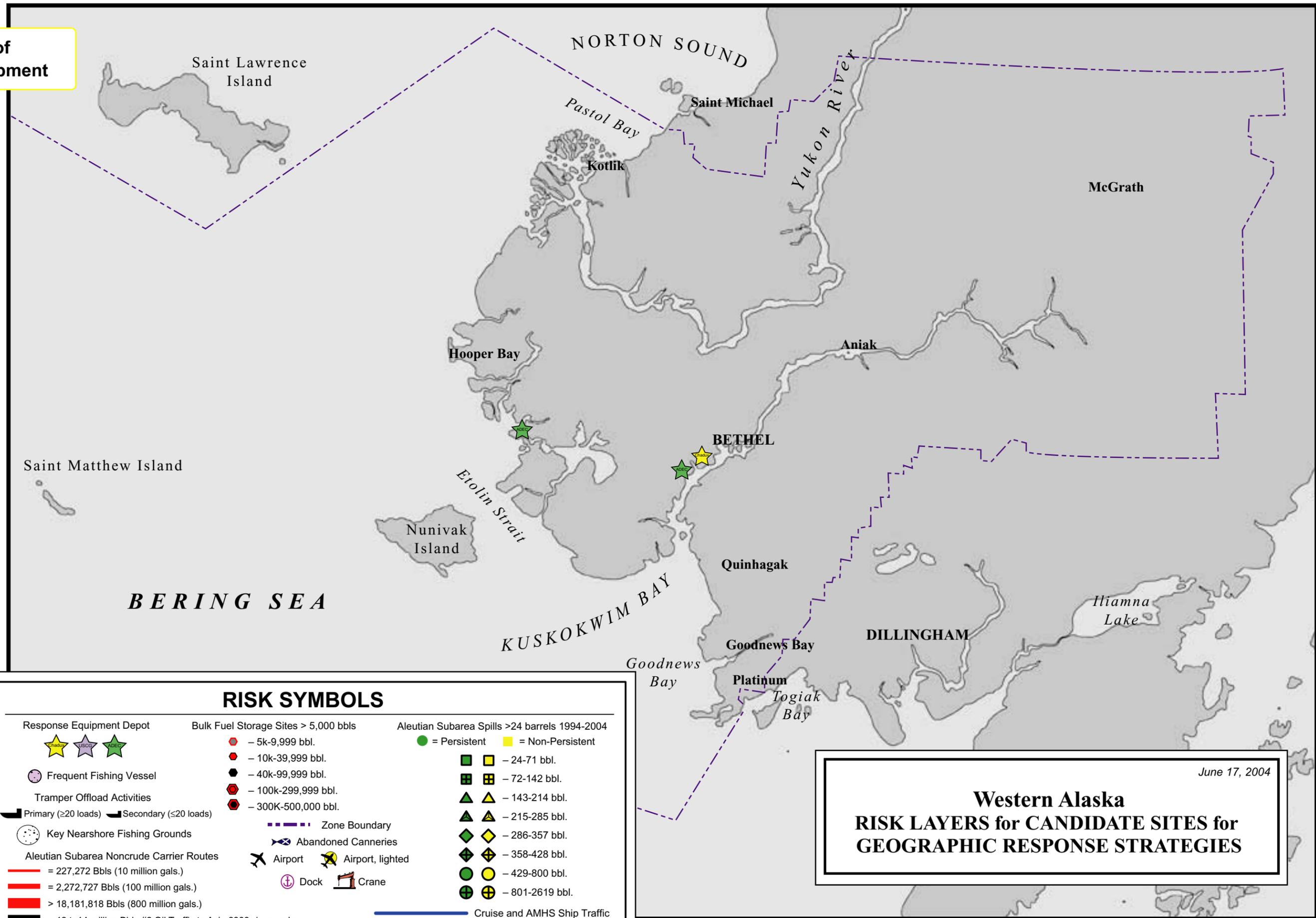
<p>Response Equipment Depot</p> <p>★ (Yellow) ★ (Purple) ★ (Green)</p> <p>⊙ Frequent Fishing Vessel</p> <p>Tramper Offload Activities</p> <p>▬ Primary (≥20 loads) ▬ Secondary (≤20 loads)</p> <p>⊙ Key Nearshore Fishing Grounds</p> <p>Aleutian Subarea Noncrude Carrier Routes</p> <p>— = 227,272 Bbls (10 million gals.)</p> <p>— = 2,272,727 Bbls (100 million gals.)</p> <p>— = 18,181,818 Bbls (800 million gals.)</p> <p>— = 13 to 14 million Bbls #6 Oil Traffic to Asia 6000+/- vessels</p>	<p>Bulk Fuel Storage Sites > 5,000 bbls</p> <p>● - 5k-9,999 bbl.</p> <p>● - 10k-39,999 bbl.</p> <p>● - 40k-99,999 bbl.</p> <p>● - 100k-299,999 bbl.</p> <p>● - 300K-500,000 bbl.</p> <p>--- Zone Boundary</p> <p>⚓ Abandoned Canneries</p> <p>✈ Airport ✈ Airport, lighted</p> <p>⊙ Dock 🏗 Crane</p>	<p>Aleutian Subarea Spills >24 barrels 1994-2004</p> <p>● = Persistent ● = Non-Persistent</p> <p>■ - 24-71 bbl.</p> <p>■ - 72-142 bbl.</p> <p>▲ - 143-214 bbl.</p> <p>▲ - 215-285 bbl.</p> <p>◆ - 286-357 bbl.</p> <p>◆ - 358-428 bbl.</p> <p>● - 429-800 bbl.</p> <p>● - 801-2619 bbl.</p> <p>— Cruise and AMHS Ship Traffic</p>
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Western Alaska

RISK LAYERS for CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES

Locations of Response Equipment



RISK SYMBOLS

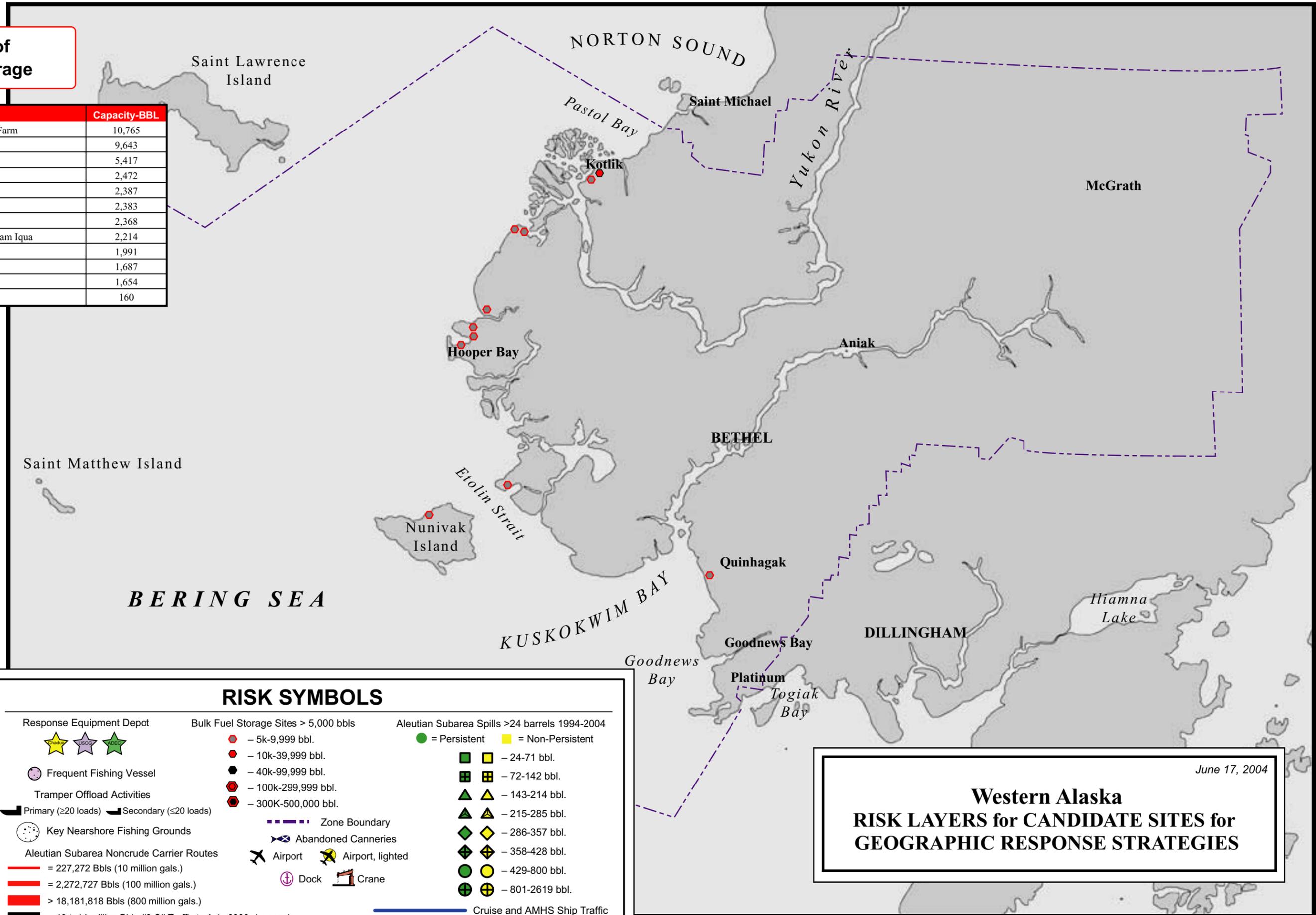
<p>Response Equipment Depot</p> <p>★ USCG ★ ADEC ★</p> <p>⊙ Frequent Fishing Vessel</p> <p>Tramper Offload Activities</p> <p>▬ Primary (≥20 loads) ▬ Secondary (≤20 loads)</p> <p>⊙ Key Nearshore Fishing Grounds</p> <p>Aleutian Subarea Noncrude Carrier Routes</p> <p>— = 227,272 Bbls (10 million gals.)</p> <p>— = 2,272,727 Bbls (100 million gals.)</p> <p>— = 18,181,818 Bbls (800 million gals.)</p> <p>— = 13 to 14 million Bbls #6 Oil Traffic to Asia 6000+/- vessels</p>	<p>Bulk Fuel Storage Sites > 5,000 bbls</p> <p>● - 5k-9,999 bbl.</p> <p>● - 10k-39,999 bbl.</p> <p>● - 40k-99,999 bbl.</p> <p>● - 100k-299,999 bbl.</p> <p>● - 300K-500,000 bbl.</p> <p>--- Zone Boundary</p> <p>⊗ Abandoned Canneries</p> <p>✈ Airport ✈ Airport, lighted</p> <p>⊕ Dock 🏗 Crane</p>	<p>Aleutian Subarea Spills >24 barrels 1994-2004</p> <p>● = Persistent ● = Non-Persistent</p> <p>■ - 24-71 bbl.</p> <p>■ - 72-142 bbl.</p> <p>▲ - 143-214 bbl.</p> <p>▲ - 215-285 bbl.</p> <p>◆ - 286-357 bbl.</p> <p>◆ - 358-428 bbl.</p> <p>● - 429-800 bbl.</p> <p>● - 801-2619 bbl.</p> <p>— Cruise and AMHS Ship Traffic</p>
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Locations of Bulk Fuel Storage

Bulk Fuel Location	Company	Capacity-BBL
KOTLIK	Kotlik Tank Farm	10,765
HOOPER BAY	Yukon Fuel	9,643
HOOPER BAY	Yukon Fuel	5,417
QUINHAGAK	AVEC	2,472
TOKSOOK BAY	AVEC	2,387
HOOPER BAY	LYSD	2,383
SCAMMON BAY	AVEC	2,368
NUNAM IQUA	City of Nunnam Iqua	2,214
MEKORYUK	AVEC	1,991
NUNAM IQUA	LYSD	1,687
KOTLIK	LYSD	1,654
EK	AVEC	160



RISK SYMBOLS

<p>Response Equipment Depot</p>	<p>Bulk Fuel Storage Sites > 5,000 bbls</p> <ul style="list-style-type: none"> - 5k-9,999 bbl. - 10k-39,999 bbl. - 40k-99,999 bbl. - 100k-299,999 bbl. - 300K-500,000 bbl. 	<p>Aleutian Subarea Spills >24 barrels 1994-2004</p> <ul style="list-style-type: none"> = Persistent = Non-Persistent - 24-71 bbl. - 72-142 bbl. - 143-214 bbl. - 215-285 bbl. - 286-357 bbl. - 358-428 bbl. - 429-800 bbl. - 801-2619 bbl.
<p>Frequent Fishing Vessel</p>	<p>Zone Boundary</p>	
<p>Tramper Offload Activities</p> <ul style="list-style-type: none"> Primary (≥20 loads) Secondary (≤20 loads) 	<p>Abandoned Canneries</p>	
<p>Key Nearshore Fishing Grounds</p>	<p>Airport</p>	<p>Airport, lighted</p>
<p>Aleutian Subarea Noncrude Carrier Routes</p> <ul style="list-style-type: none"> = 227,272 Bbls (10 million gals.) = 2,272,727 Bbls (100 million gals.) > 18,181,818 Bbls (800 million gals.) = 13 to 14 million Bbls #6 Oil Traffic to Asia 6000+/- vessels 	<p>Dock</p>	<p>Crane</p>
		<p>Cruise and AMHS Ship Traffic</p>

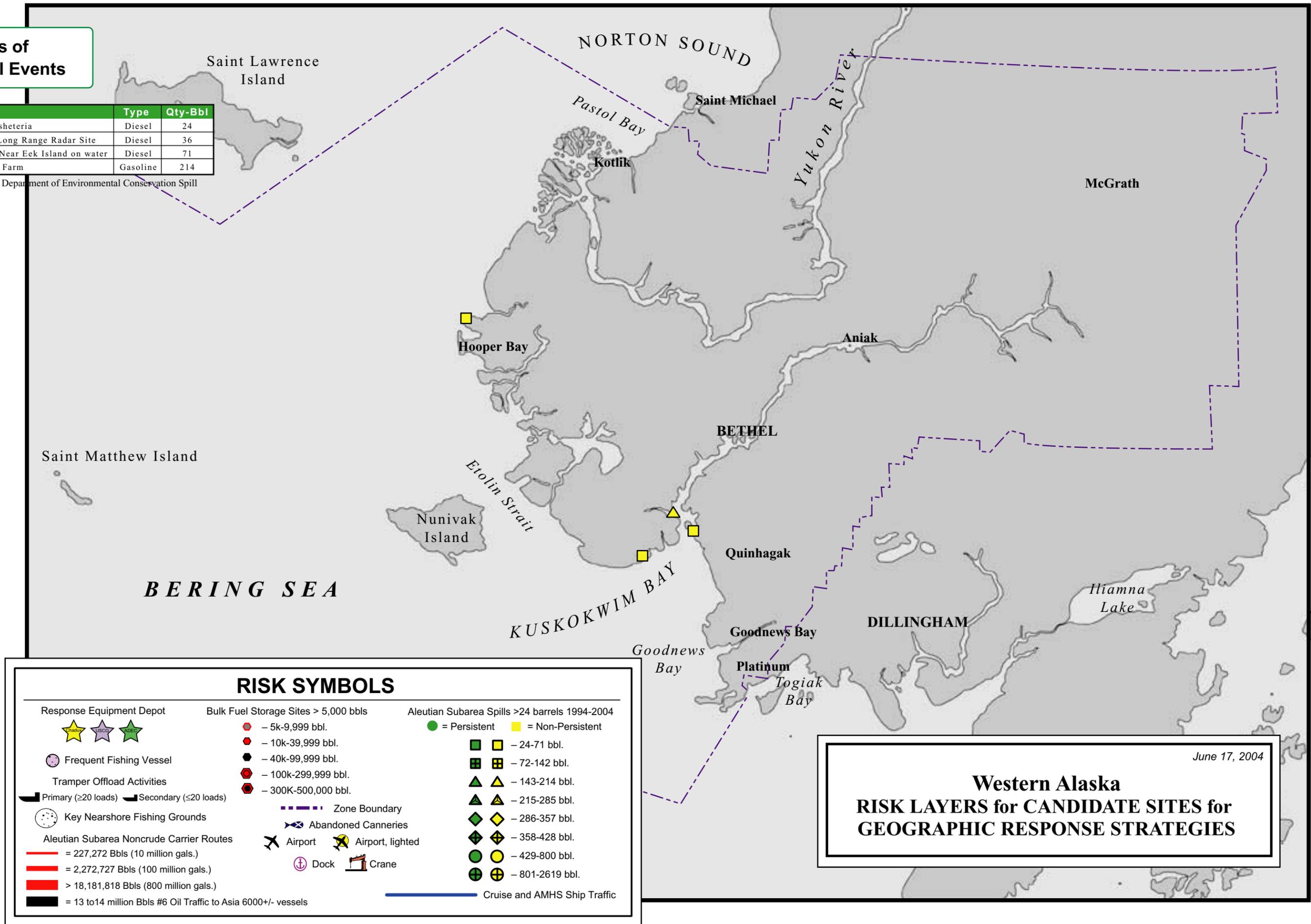
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Locations of Major Oil Spill Events

Spill Date	Spill Name	Type	Qty-Bbl
9/10/1999	Kwigillingok Washeteria	Diesel	24
5/19/1999	Cape Romanzof Long Range Radar Site	Diesel	36
7/6/1995	Kuskokwim Bay Near Eek Island on water	Diesel	71
6/17/1996	Tuntutuliak Tank Farm	Gasoline	214

Reference- Iwamoto, Larry. Alaska Department of Environmental Conservation Spill Data, Excel spreadsheet.



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