The Unified Plan and the Bristol Bay Subarea Contingency Plan

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State of Alaska
Dept of Environmental Conservation
Spill Prevention and Response Division

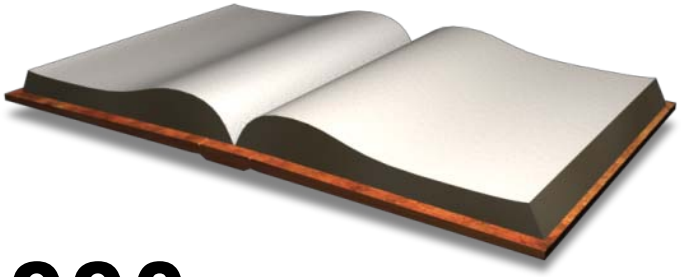
Spill Response in Alaska

- Roughly 2,000 spills per year on the average
- DEC staff perform field visits/phone follow-ups to roughly 750-800 of these spills
- 25-30 spills are considered "significant" with Situation Reports generated
- 36 primary spill responders in DEC

Notable Spills in Bristol Bay

Date	Spill Name/Location	Substance	Quantity
10/30/2008	Crowley Jet Fuel Tank Failure, Newhalen, AK	Aviation Fuel	13,630 gal
1/3/2000	Ivanoff Bay Tank	Diesel	10,000 gal
7/21/2008	Trident Seafoods Chignik Facility Fire	Ammonia (Anhydrous)	8,000 lbs
5/21/2001	Moodys Marina Aleknagik	Gasoline	5,000 gal
4/18/1999	Pedro Bay School Tanks	Diesel	4,000 gal
4/28/1993	(Pre) Pilot Point Cannery	Other	3,000 gal
5/22/1997	F/V Foggy Cape – Levelock	Diesel	3,000 gal
7/9/1997	Perryville School Tank	Diesel	3,000 gal
4/17/2004	F/V Dolphin Diesel	Diesel	2,800 gal
12/14/1997	Ekuk Wards Cove Cannery	Diesel	2,796 gal
9/4/2007	Crowley Iliamna Airport Tank Farm	Aviation Fuel	2,280 gal
3/19/2002	Manokotak Power Plant Day Tank	Diesel	2,164 gal
12/15/2009	Crowley Tank Truck Spill at Iliamna Airport	Aviation Fuel	1,507 gal
6/6/2009	Pile Bay Rd Tanker Spill	Diesel	1,400 gal
6/20/2000	Aleknagik City Heating Oil Spill	Diesel	1,000 gal
8/21/2001	Crystal Creek Lodge	Diesel	1,000 gal
4/22/2002	Koliganek Tank Farm	Diesel	1,000 gal
6/11/2002	Portage Creek Council Spill	Diesel	1,000 gal

Legal Mandates



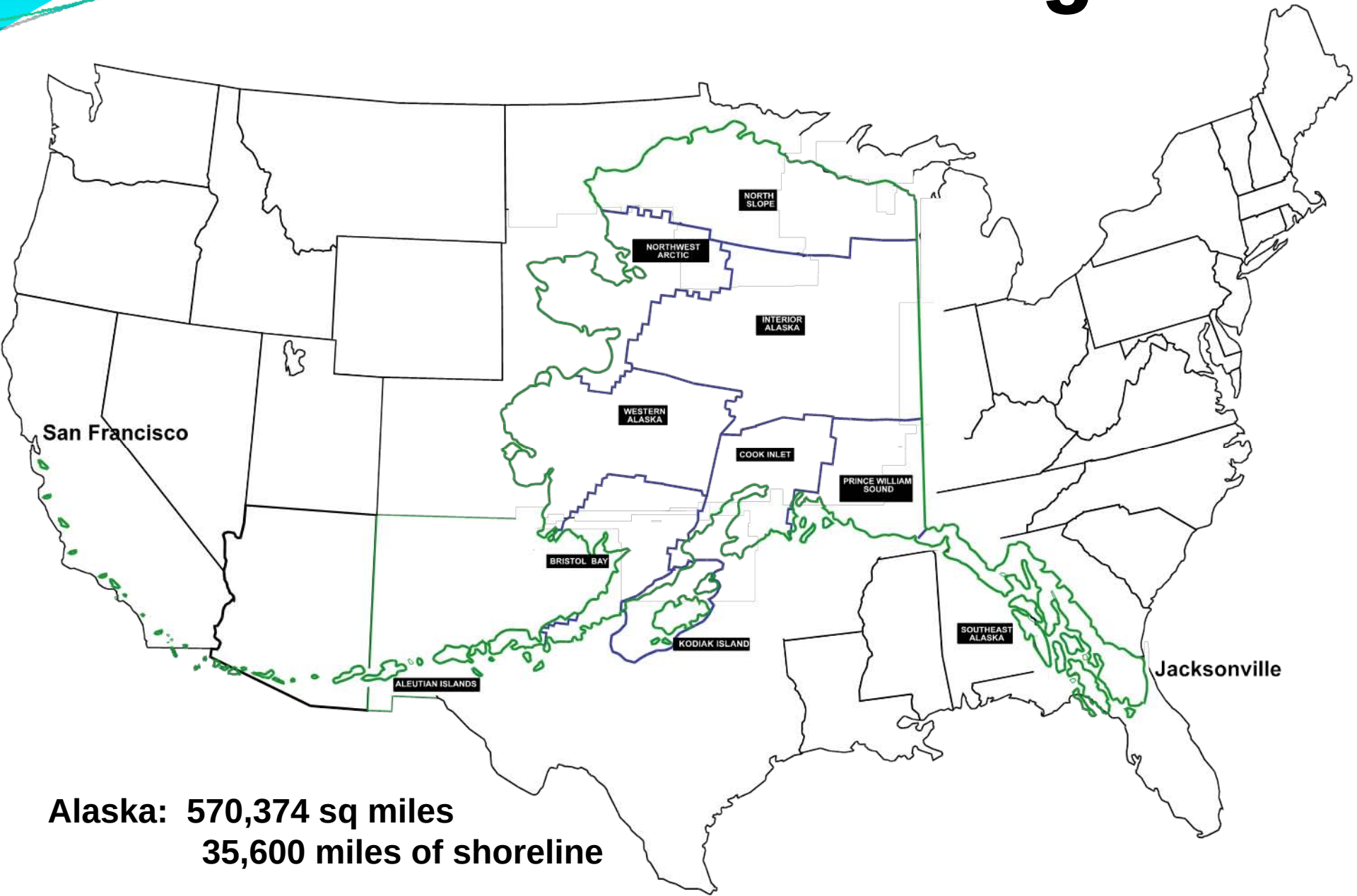
- Oil Pollution Act of 1990
- Clean Water Act
- Alaska Statutes & Regulations

Federal/State Planning Requirements

- OPA 90 requires USCG and EPA to prepare the National Contingency Plan, plus develop Regional and Area Contingency Plans throughout the country

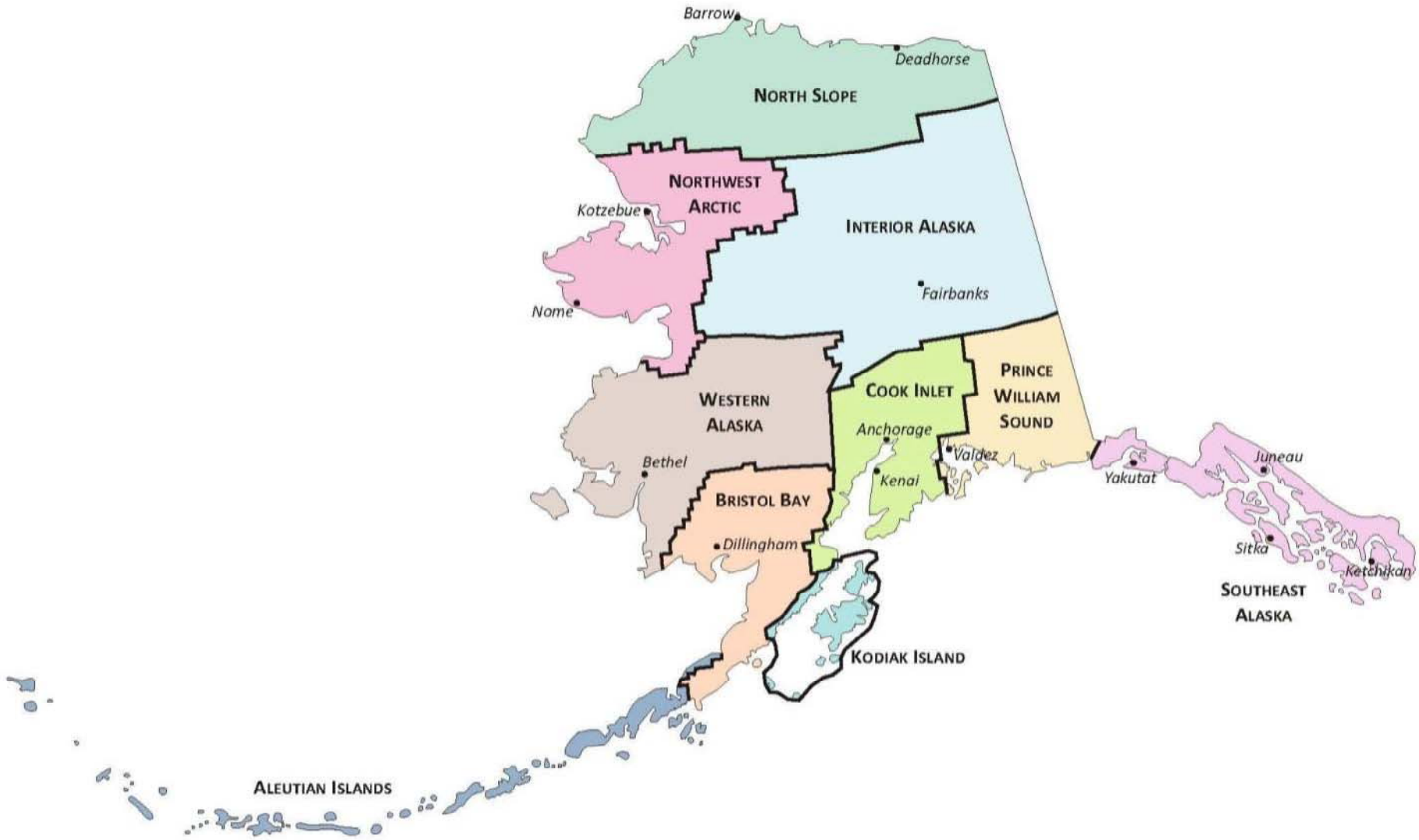
- The Alaska Statute requires ADEC to develop a State Master Plan and 10 Regional Master Plans for the ten “regions” of the state.

The Overall Challenge

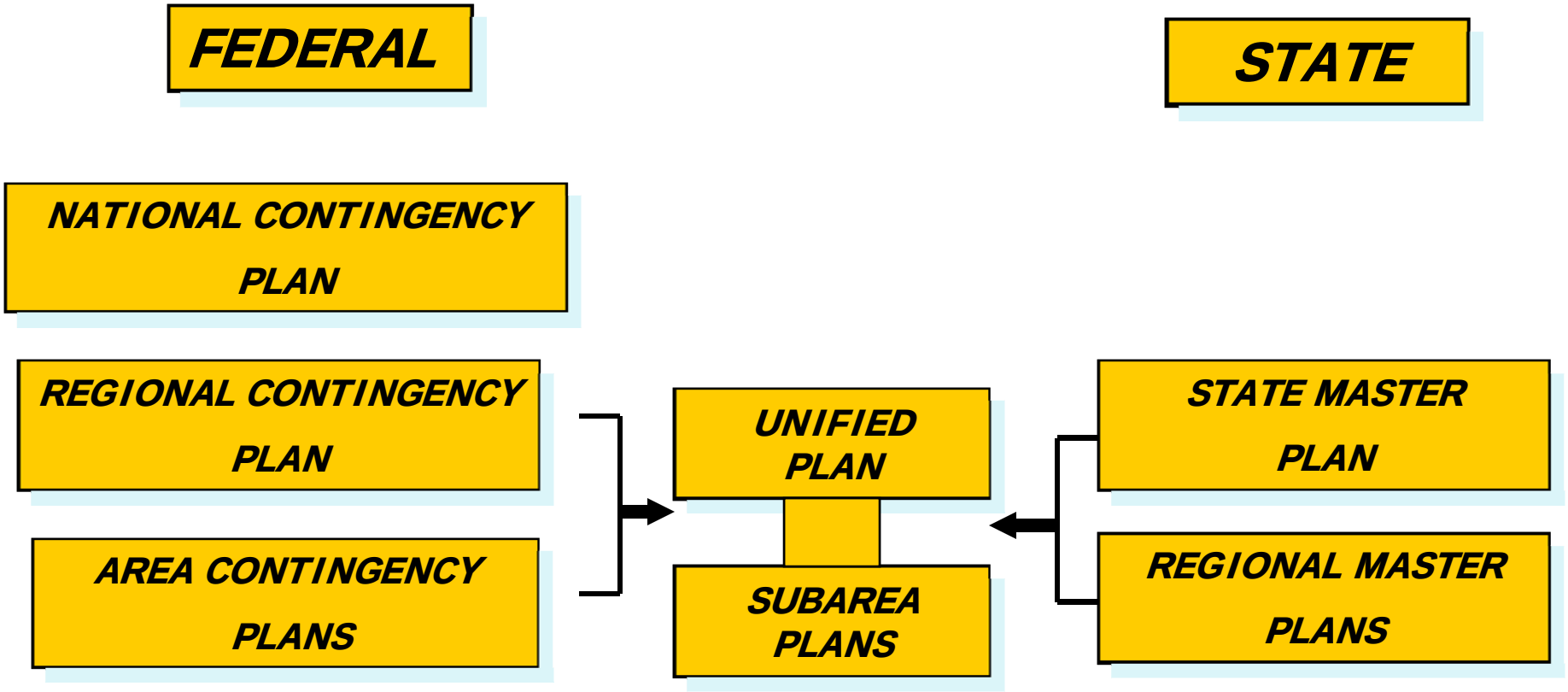


Alaska: 570,374 sq miles
35,600 miles of shoreline

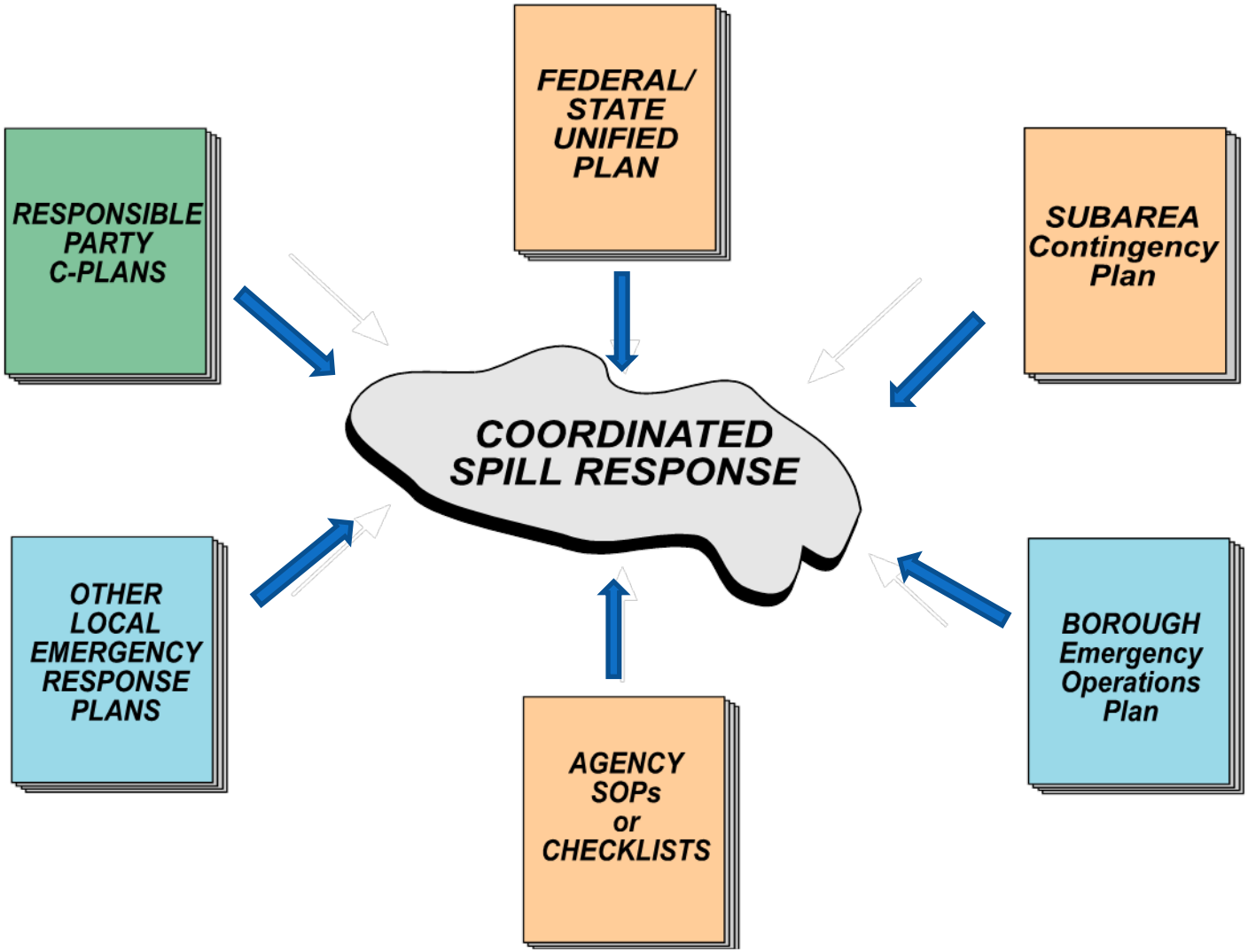
Unified Plan and 10 Subarea Plans

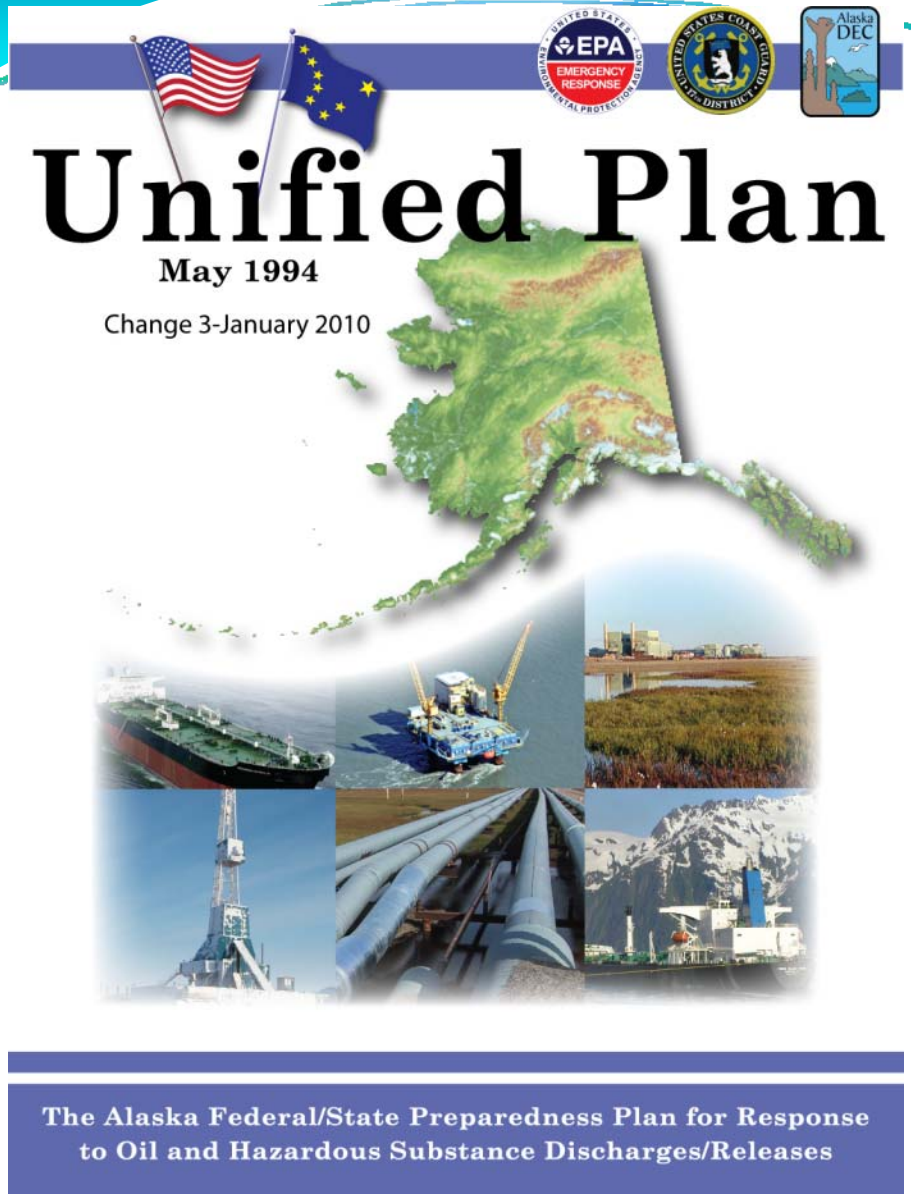


Joint Government Planning in Alaska



Integrated Response

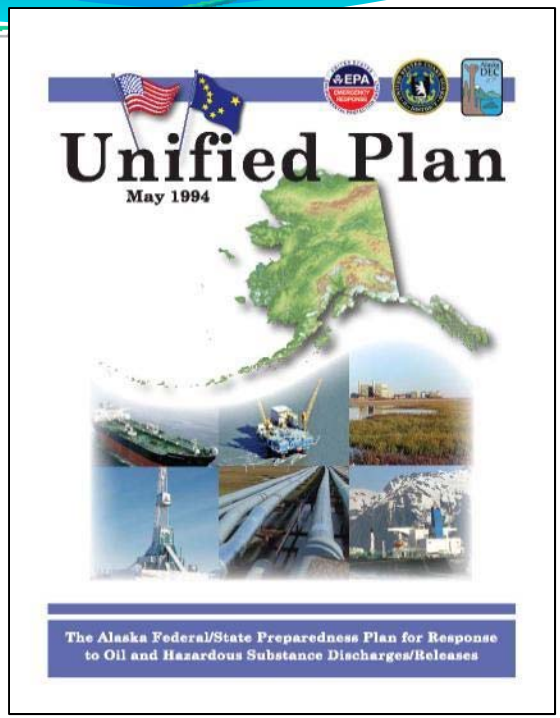




The Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases

The Unified Plan

Unified Plan



- **Describes the strategy for a coordinated Federal, State, and local response to a discharge, or substantial threat of a discharge of oil or hazardous substance within Alaska.**

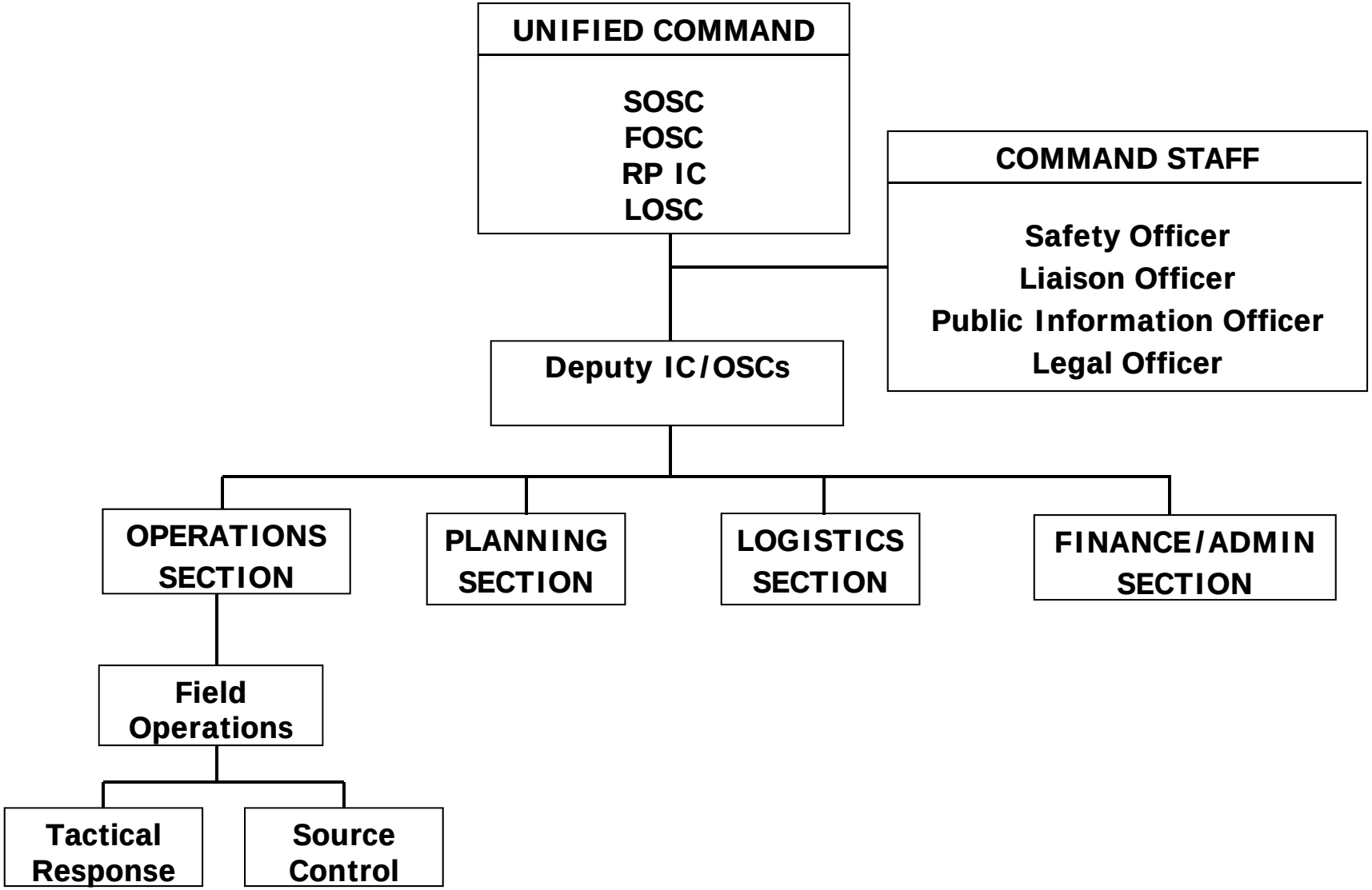
- **Provides information and guidance applicable to pollution responses within the entire State of Alaska including:**
  - **Emergency notification information**
  - **General emergency response procedures**
  - **18 Annexes, A-P, V and Z, by subject matter.**

Unified Plan - Overview

- **Annex A - Introduction**
  - **Summary of legal mandates**
  - **Agency authority during a response.**

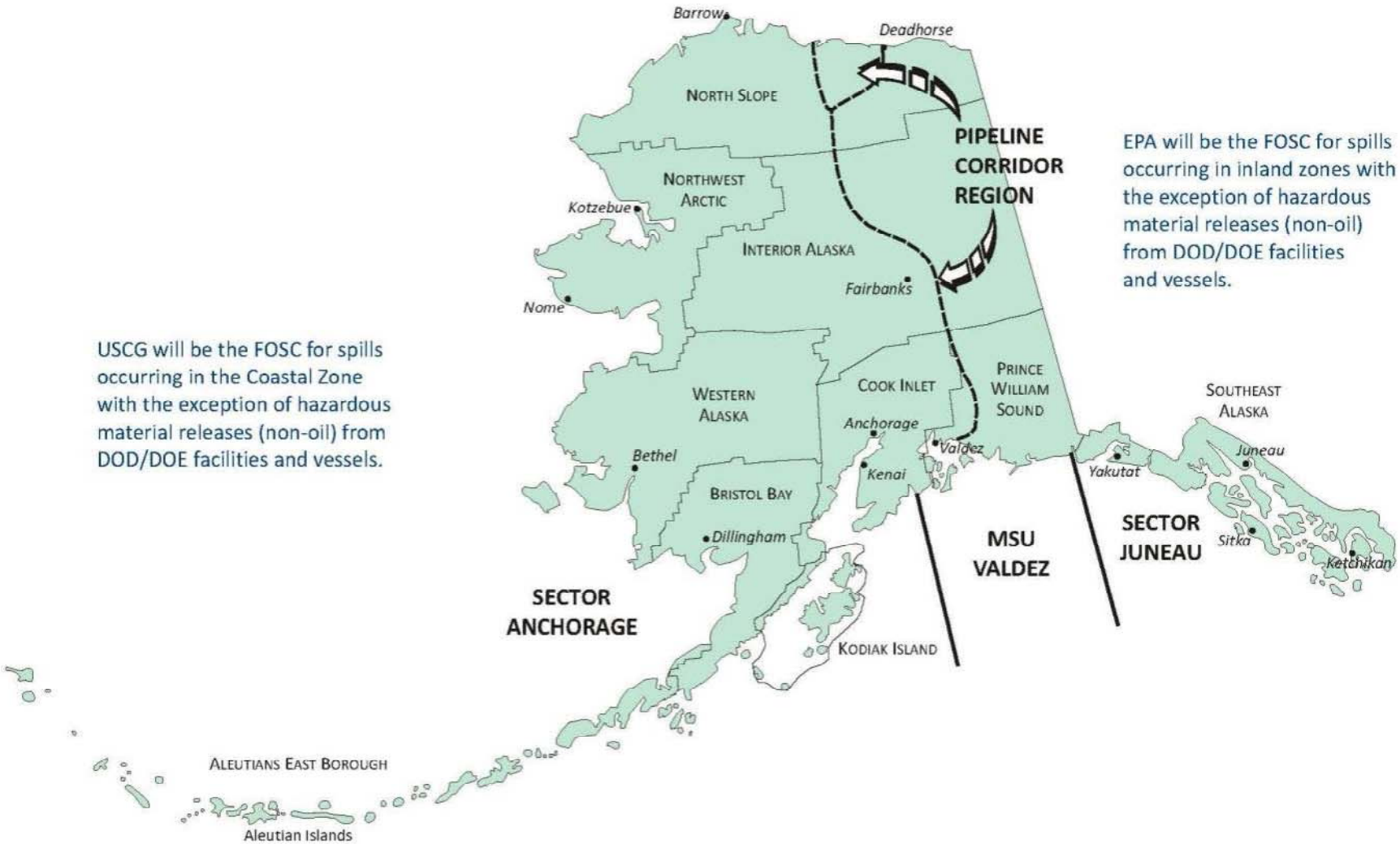
- **Annex B – Unified Response Organization**
  - **Intro to the organization and management of spill response – Incident Command System**
  - **Clarification of 'who's in charge?'**
  - **Federal and State Roles and Oversight Responsibilities**
  - **Disaster Response Organizational Structure**

Typical Response Organization



The FOSC Areas of Responsibility

Pre-Designated Federal On-Scene Coordinators (FOSC) – Areas of Responsibility

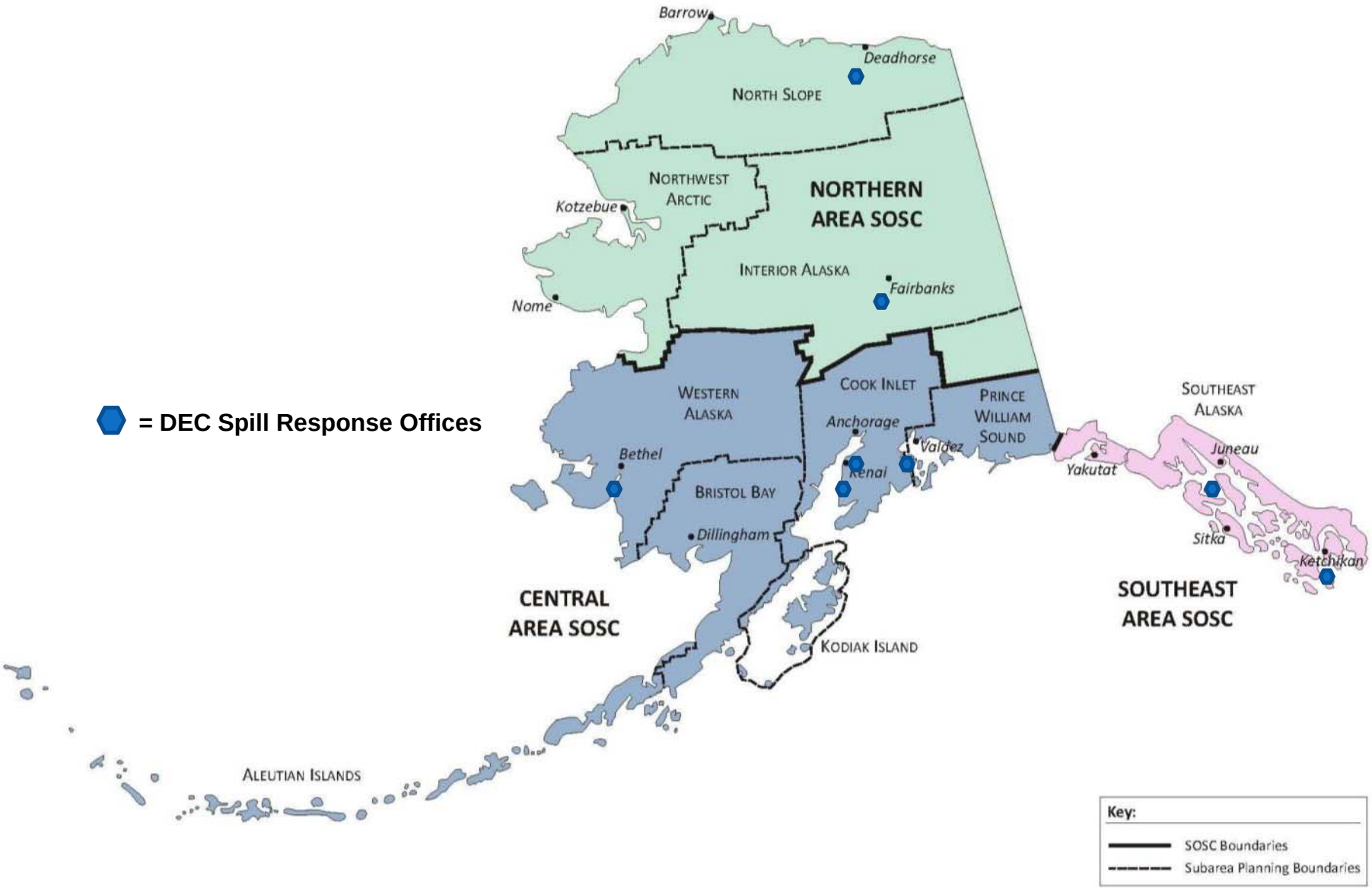


EPA will be the FOSC for spills occurring in inland zones with the exception of hazardous material releases (non-oil) from DOD/DOE facilities and vessels.

USCG will be the FOSC for spills occurring in the Coastal Zone with the exception of hazardous material releases (non-oil) from DOD/DOE facilities and vessels.

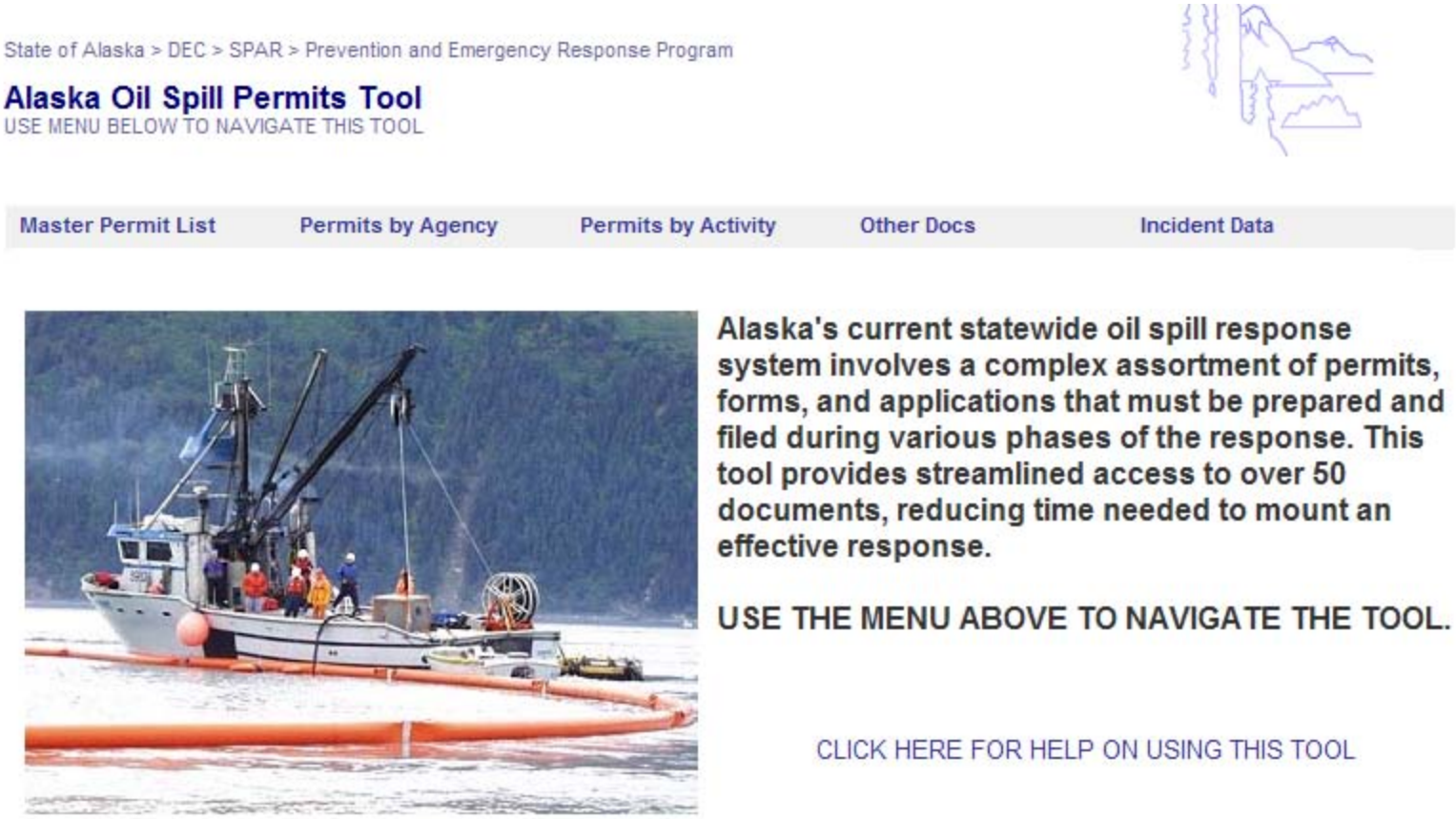
The SOSC Areas of Responsibility

= DEC Spill Response Offices



Unified Plan - Overview

- **Annex C – Operational Administration**
  - **Funding, reporting, permits & permitting authorities**
  - **http://dec.alaska.gov/spar/perp/permits/index.htm**



Unified Plan - Overview

- Annex D – Plan Review and Update
  - Unified Plan and Subarea Plan review/updates
  - State and Federal Discharge exercise requirements

- Annex E – Summary of Statewide Resources
  - Federal and State Resources
  - Logistical Information –statewide assets
  - Special Forces, Personnel and Information
  - Communications, Waste Management and Disposal

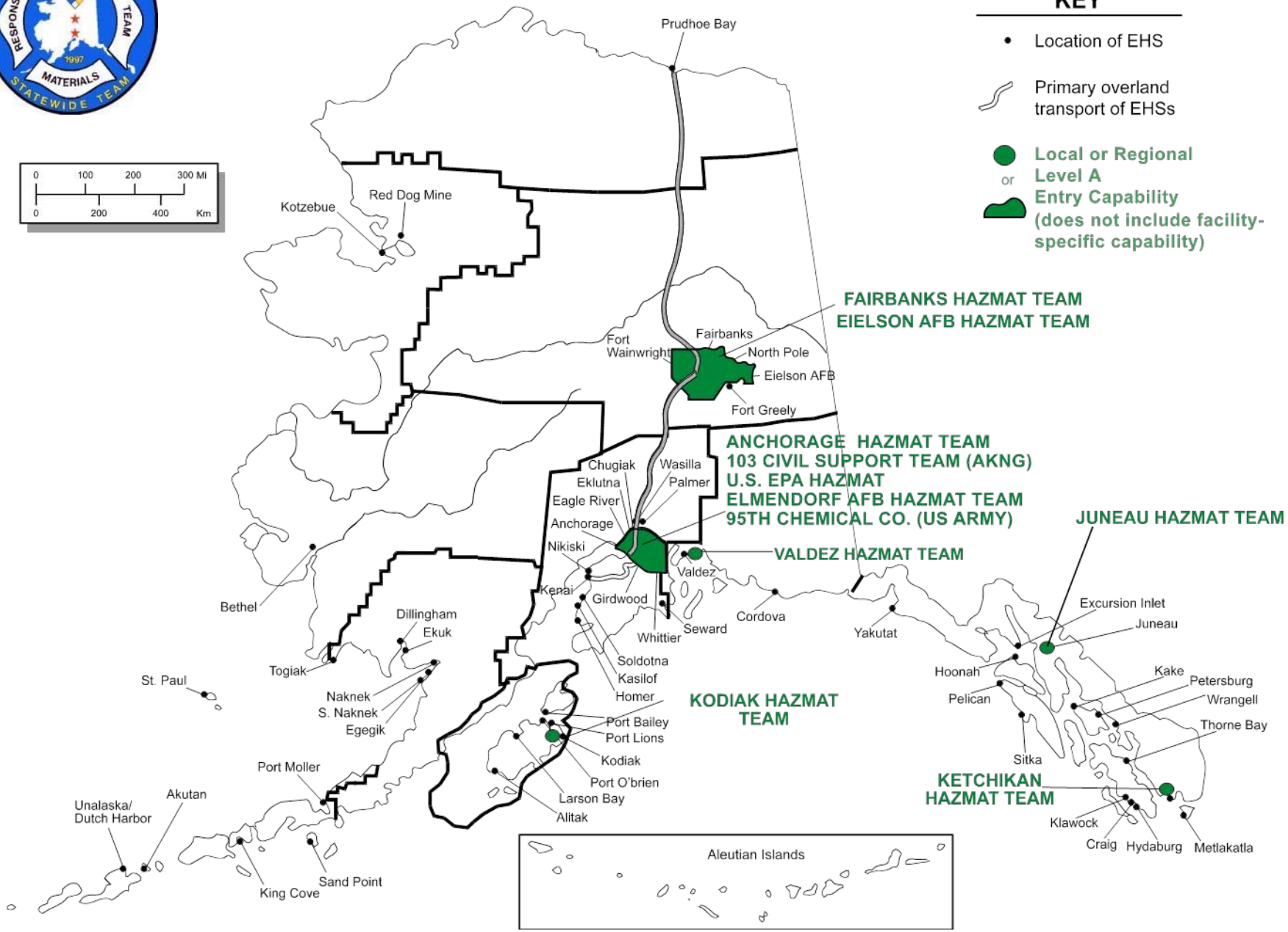
Unified Plan - Overview

- **Annex F – Chemical Countermeasures**
  - **Dispersants**
    - **ARRT-Approved Guidelines**
    - **Permit Application**
    - **Pre-identified Zones for Prince William Sound and Cook Inlet**
  - **In Situ Burning**
    - **Background**
    - **Permit Application**

Unified Plan - Overview

- Annex G – Wildlife Protection Guidelines for Alaska
- Annex H – Health, Safety, and Training
- Annex I – Public Affairs
- Annex J – Radiological Response Procedures
- Annex K – Applicable MOUs/MOAs
- Annex L – Hazardous Materials

HAZMAT Level A Entry Capability
(as of: February 2010)

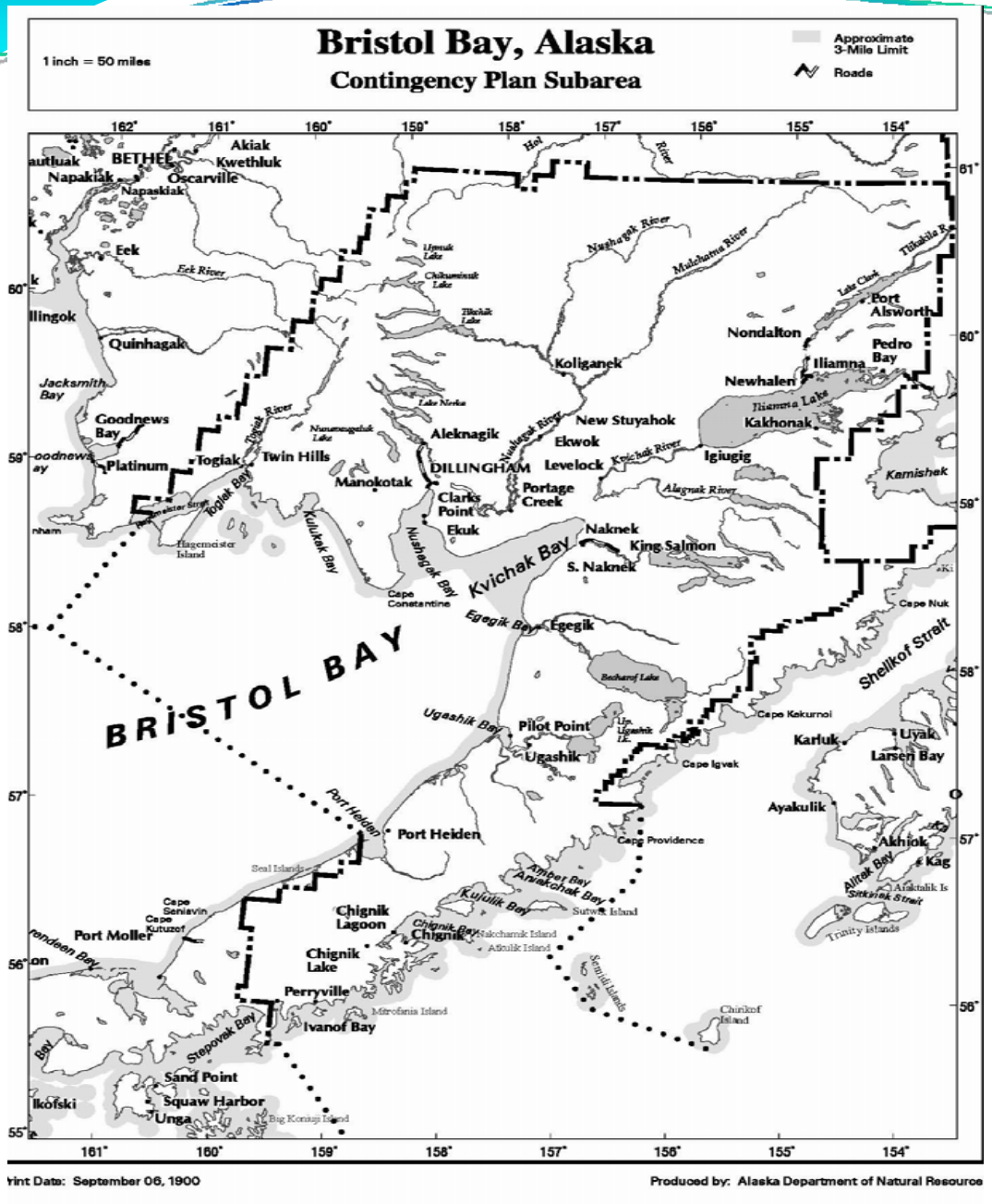


Unified Plan - Overview

- Annex M – Cultural Resources Protection Guidelines for Alaska
- Annex N – Shoreline Cleanup and Assessment Guidelines
- Annex O – Potential Places of Refuge
- Annex P – Marine Salvage and Lightering
- Annex V - Volunteers
- Annex Z – Definitions, Abbreviations & Acronyms

The Bristol Bay Subarea Contingency Plan

The Bristol Bay Subarea



Bristol Bay Region: that area encompassed by the boundaries of the Bristol Bay Coastal Resource Service Area, the Bristol Bay Borough, and the Lake and Peninsula Borough, including adjacent shorelines and state waters, and having as its seaward boundary a line drawn in such a manner that each point on it is 200 nautical miles from the baseline from which the territorial sea is measured.

Local Government and Tribal Roles in Federal/State Planning

- Tribal & Local Government Input is Critically Important to Federal/ State Plans

- Input Process includes Government to Government consultation, EPA questionnaires, and the public review process.

Federal/State Spill Response Plans

Bristol Bay SCP:

- A – Response
- B – Regional Resources
- C – HazMat
- D - Sensitive Areas
- E – Background
- F – Scenarios
- G - Geographic Response Strategies (TBD)
- H – Specific PPORs (TBD)

Unified Plan:

- Response Organization
- Administration
- Dispersants & ISB
- Wildlife Protection Guidelines
- Statewide Resources
- Hazmat, Radiological
- Health & Safety Guidelines
- Joint Information Center
- PPOR Guidelines
- Volunteer Guidelines

Response Section

- **Emergency Response Notification Lists**
  - **FOSC and SOSC**
  - **Federal and state agencies**
  - **Local governments and other contacts**

- **Unified Command structure and roles of response organizations.**

- **Response procedures, including:**
  - **Response Objectives**
  - **Ramp up Procedures**
  - **Protocols for health & safety, dispersants & *in situ* burning, and waste removal.**

Resources Section

- Community Profile on each town or village in the subarea

- Response equipment –
  - commercially and non-commercially available, plus spill cooperative inventories

- Information Directory

- Equipment, personnel, command centers, and communications

Resources Section includes:

- Airports and Air Services
- Emergency Services Managers
- Fishing Organizations
- Hospitals
- Media
- Native Organizations and Tribes
- Port Authorities
- Response Agreements
- Salvage and Towing
- Trustees for Natural Resources
- Vehicles
- Weather Service
- Useful Websites,
  and much more…

Hazardous Materials Section

- **Hazmat Response Protocols**
- **State and federal authorities, policies, responsibilities, and response capabilities**
- **Hazmat Risk Assessment**

Sensitive Areas Section

Background Section

- Subarea Description
- Regional Stakeholder Committee
- Federal, State Response Strategies/Priorities
- Spill History
- Oil Fate and Effects/Risk Assessment

Scenarios Section

- **Worst Case Discharge Scenario:**
  - **Vessel: Discharge of entire cargo in adverse weather conditions.**
  - **Onshore or Offshore Facility: Largest foreseeable discharge in adverse weather conditions.**

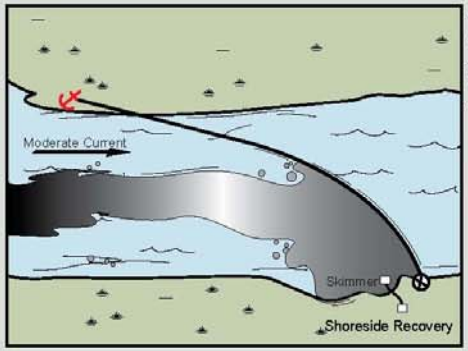
- **Maximum Most Probable Discharge Scenario:**
  - **Based on largest recorded spill for the subarea.**

- **Average Most Probable Discharge Scenario:**
  - **Based on the size of the average spill in the subarea.**

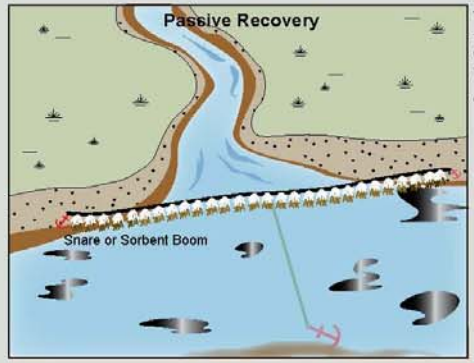
Optional Scenario:

- **Hazmat Scenario**

Geographic Response Strategies Section



An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Passive Recovery Tactic*. Actual deployment should be adjusted for local conditions.

Map Legend

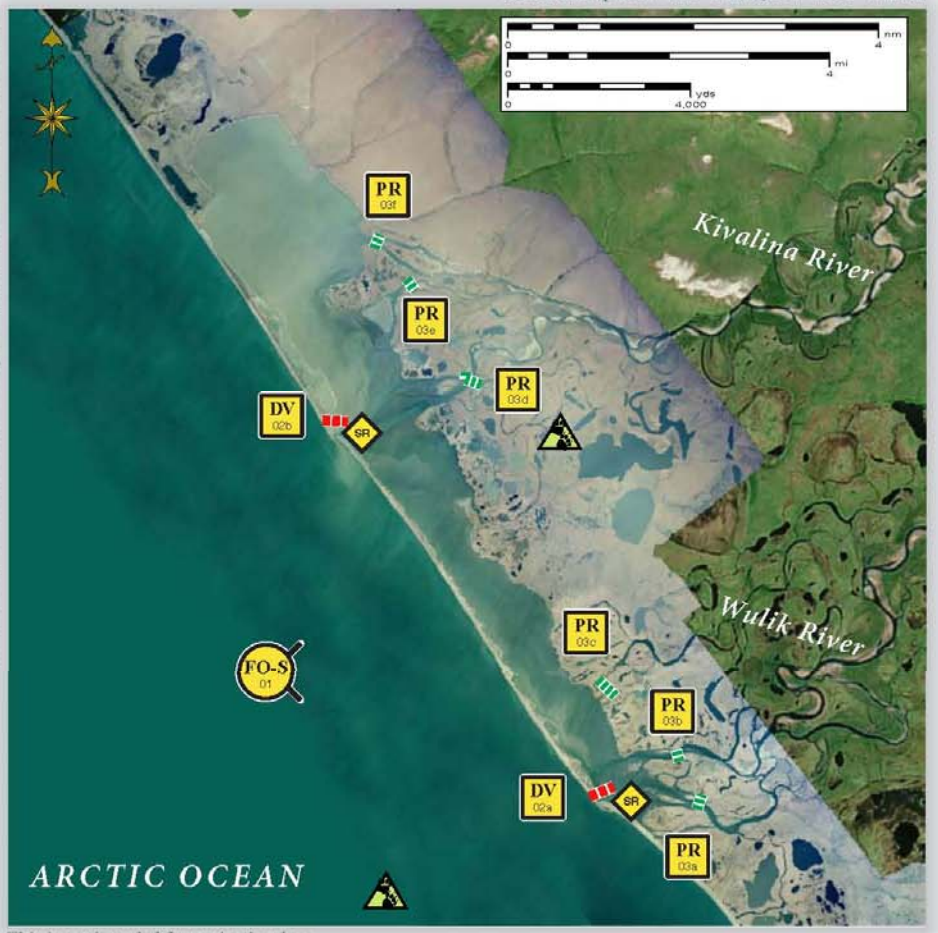
- FO-S Free-oil Recovery
- DV Diversion Booming
- PR Passive Recovery
- SR Shoreside Recovery
- Protected-water Boom
- Snare or Sorbent Boom
- Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for *Northwest Arctic Subarea, Northern Zone*

Kivalina River/Wulik River, NWA-N04

Center of map at 67° 48'8" N Lat., 164° 89'55" W Lon.



This is not intended for navigational use.

- **Sensitive Area Prioritization and Protection**
- **Pre-Identified Operational Tactics**

Potential Places of Refuge Section

- **Two Critical Factors to Consider:**
  - **Sensitive Area Protection**
  - **Operational Needs**

Response Strategies and Tactics

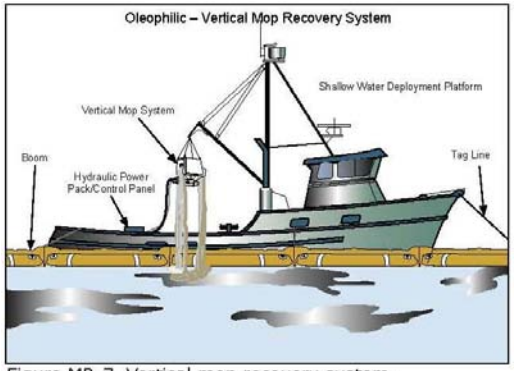
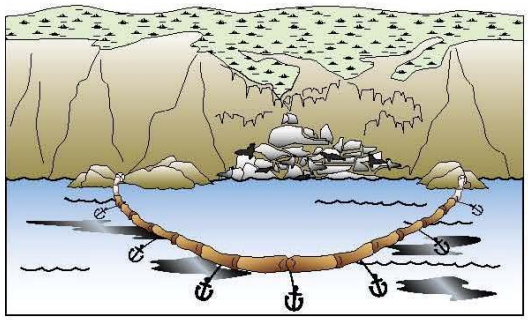


Figure MR-7. Vertical mop recovery system.



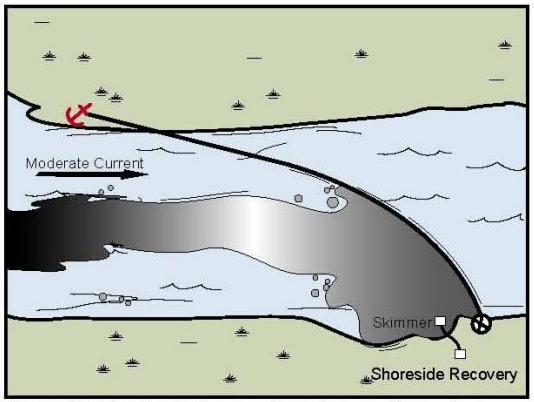


Figure DV-6. Single boom diversion configuration.

Off Shore Prevention Initiative: Emergency Towing System

A Successful ETS Employment: M/V Golden Seas (December 2010)

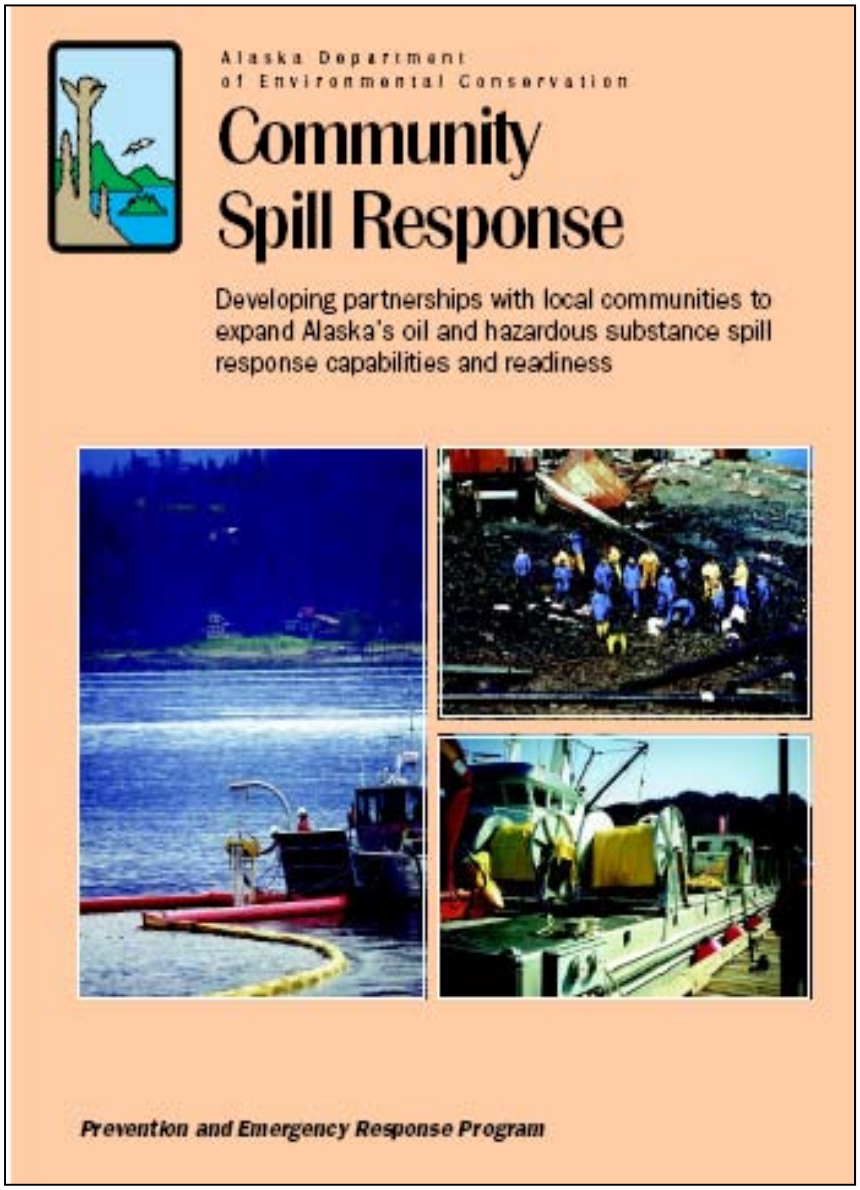
Nearshore Response Planning Initiative

- **Goal: Protect State Resources from Impacts of Oil Spills (State Waters extend out to 3 miles from the shoreline)**

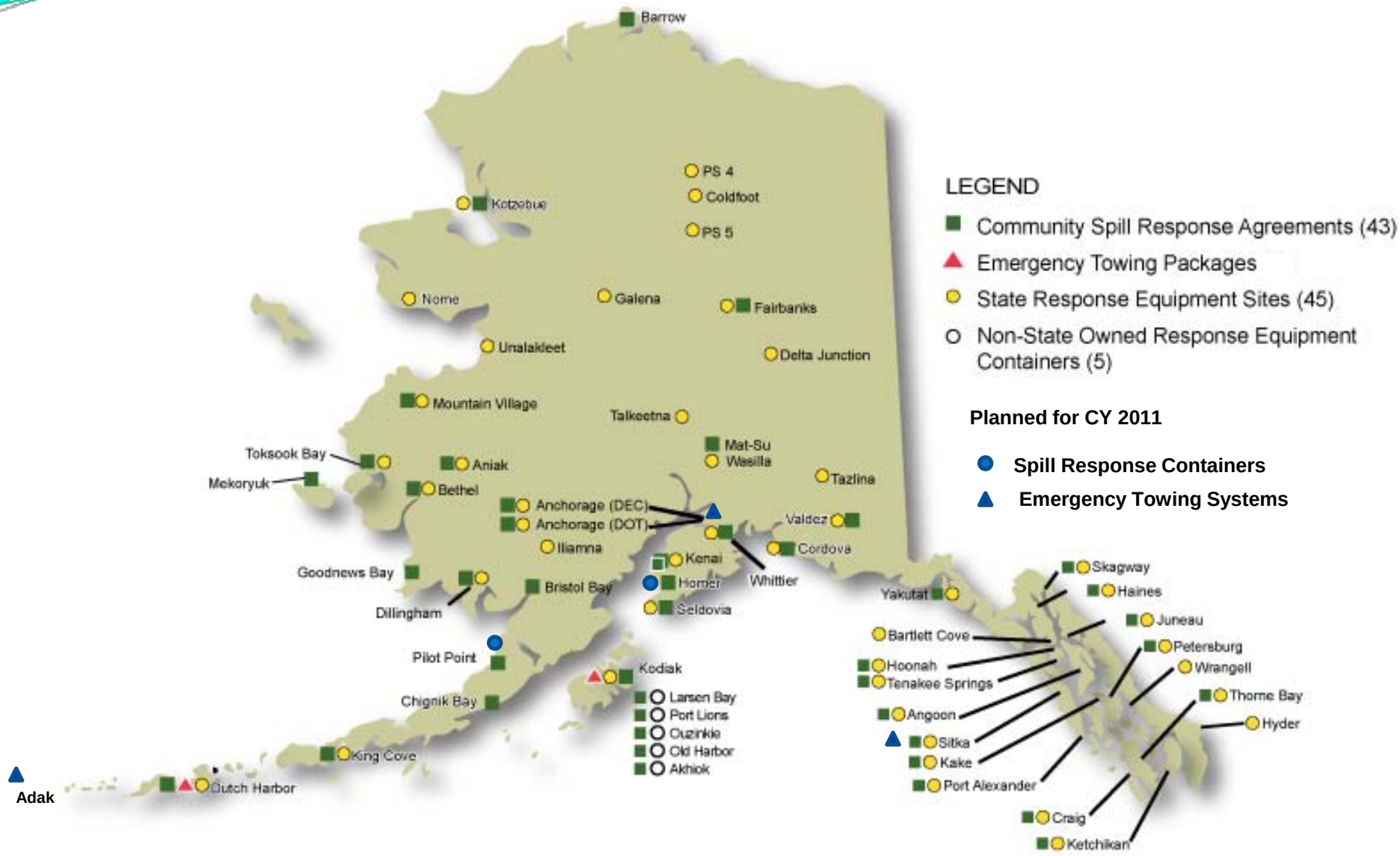
- **Objective: Develop Specific Nearshore Operations Response Strategy to supplement the STAR Manual**

Local Response Agreements

- **Formal Agreement between DEC and Local Community; 43 agreements in place, several pending**
- **Activated by DEC's State On-Scene Coordinator for spills in local area**
- **Local Community Reimbursed by DEC for expenses incurred**
- **DEC-owned Spill Response Container located in Community**



State of Alaska Local Response Assets



Local Community Response Enhancements

- Spill Response Containers
- DEC provides Training to Local Responders
- DEC provides maintenance and replacement costs for equipment and supplies

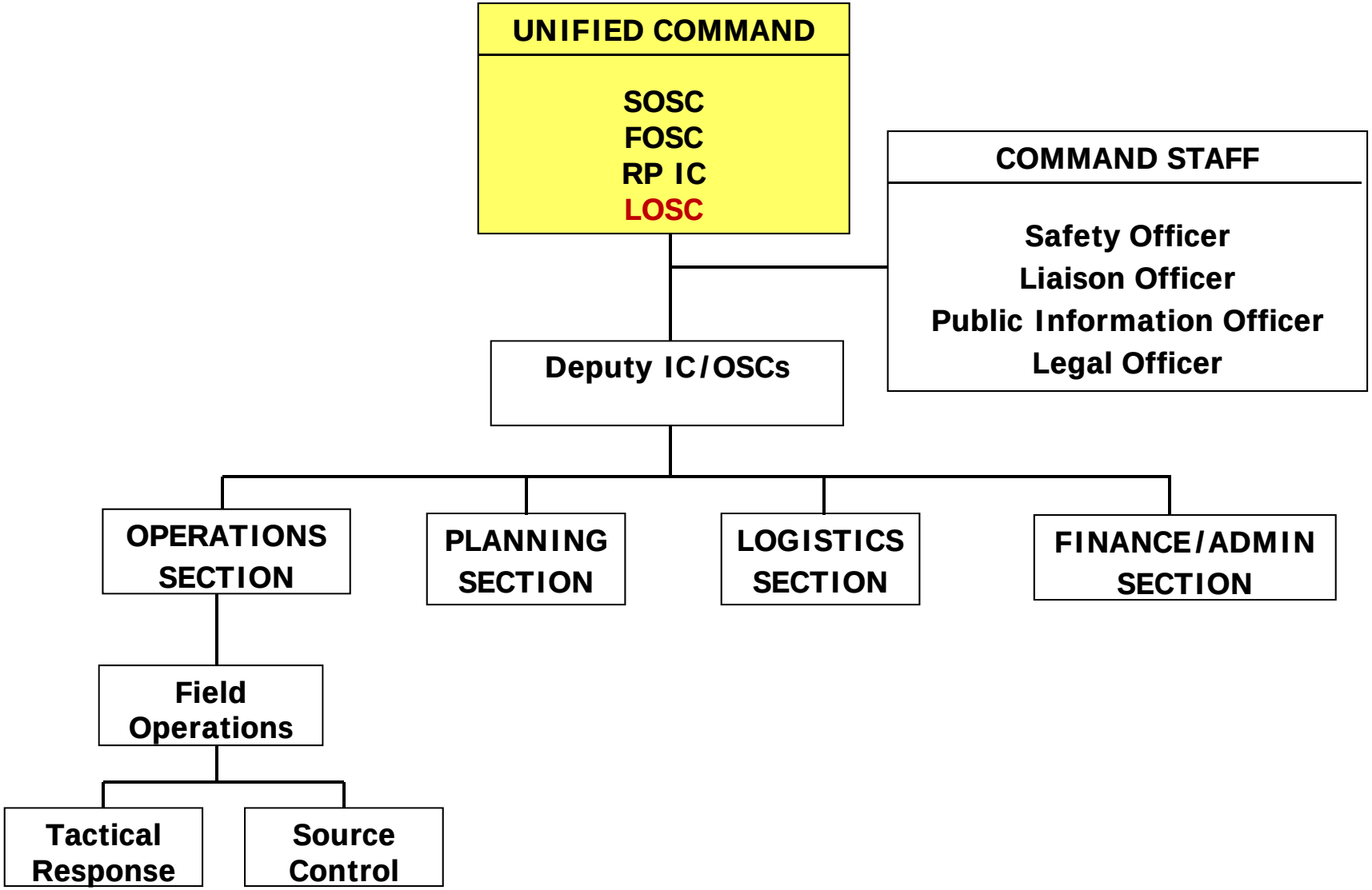
Key Roles for Local Responders

- **Local On-Scene Coordinator**
- **Regional Stakeholder Committee**
- **Local Knowledge**
- **Augment the Response with Trained Workers**

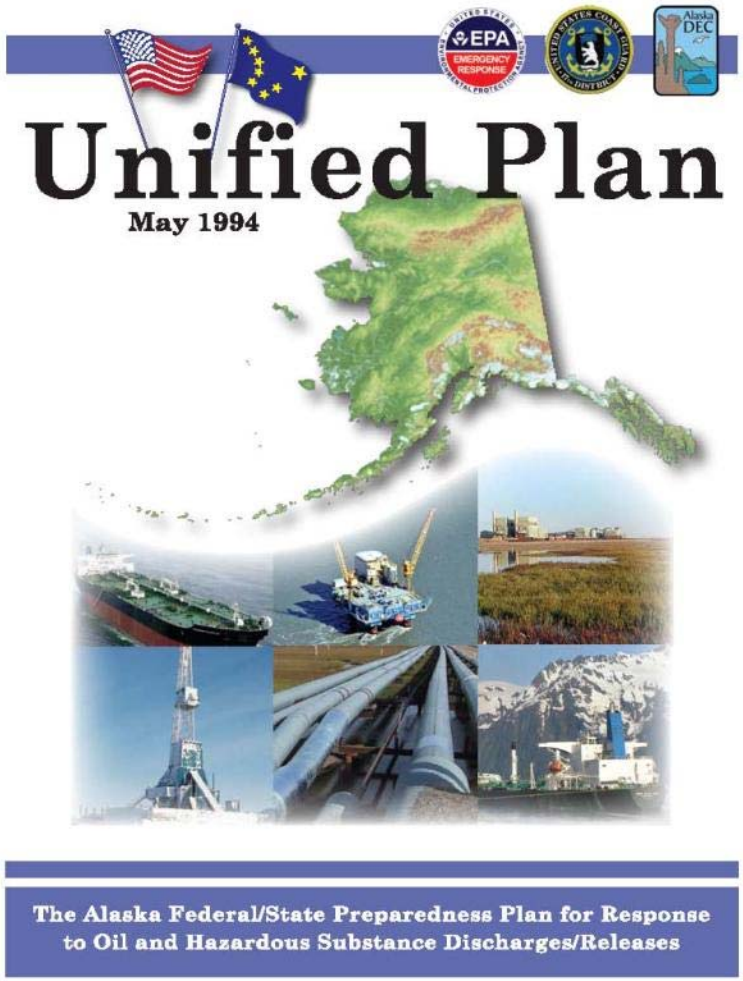
North Slope Borough Village Response Team – GC-2 Spill (March 2006)

Local-Hire Worker – Selendang Ayu Spill (April 2005)

Typical Response Organization



Key Federal/State Plans

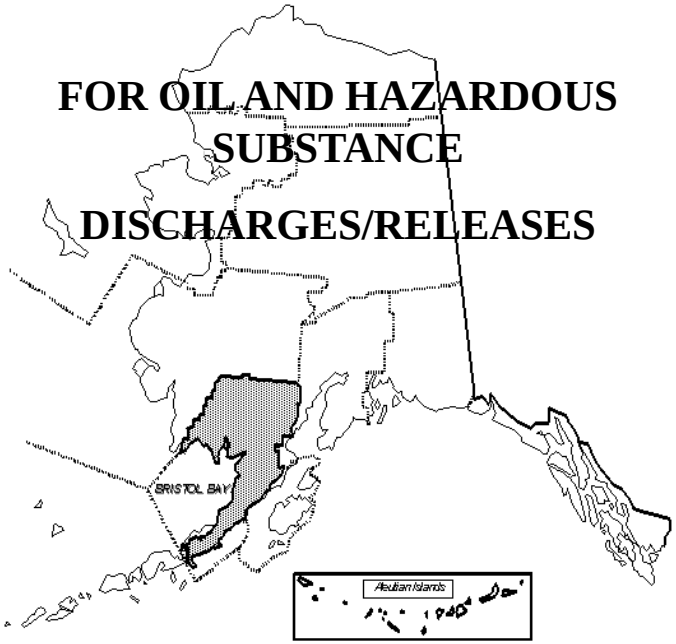


BRISTOL BAY

SUBAREA CONTINGENCY PLAN

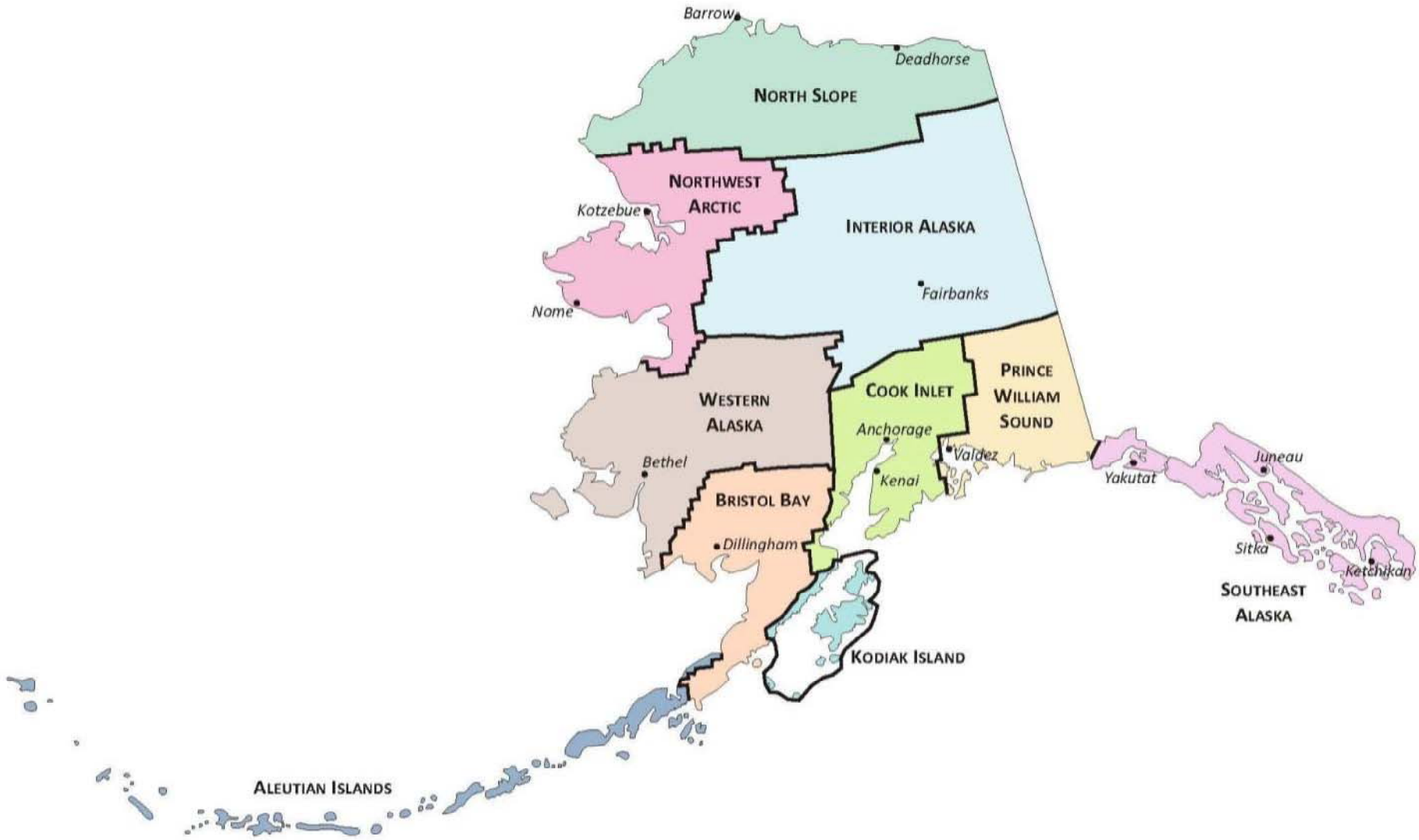
FOR OIL AND HAZARDOUS SUBSTANCE

DISCHARGES/RELEASES

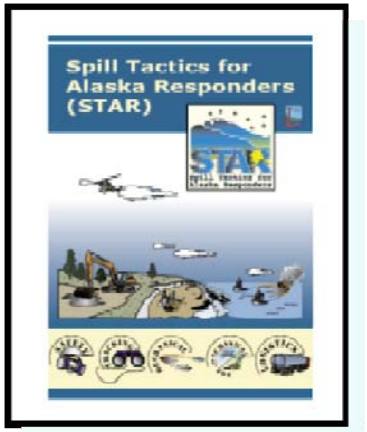


A Subarea Plan of the Unified Plan for the State of Alaska

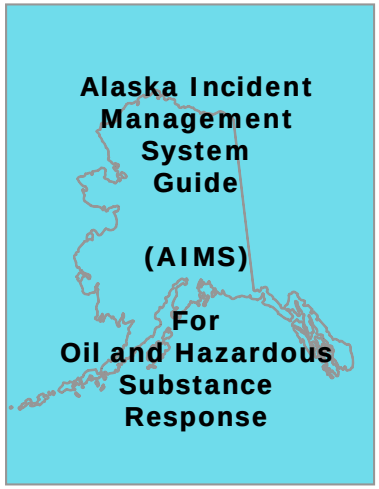
Unified Plan and 10 Subarea Plans

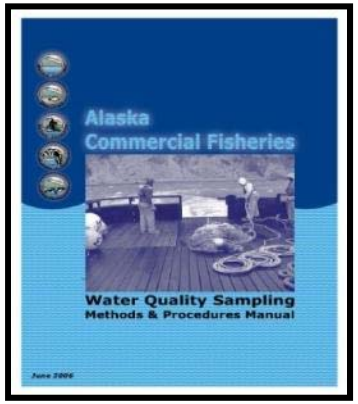


Supporting Documents

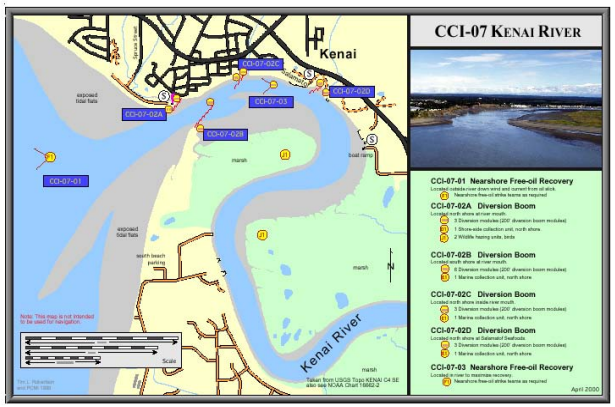


Response Tactics

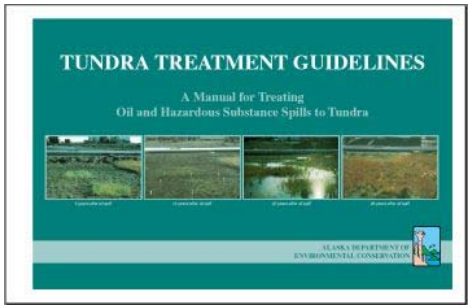




Fisheries/
Water Sampling



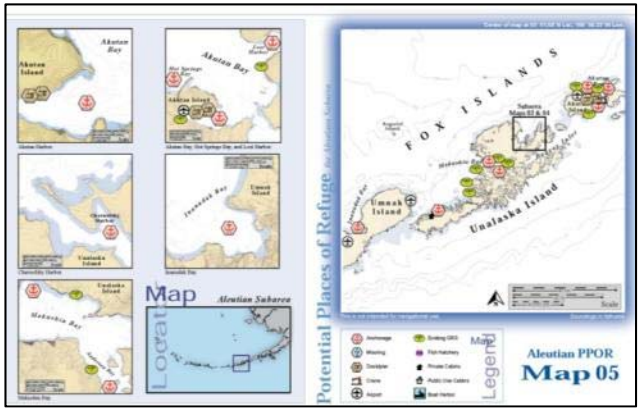
Geographic Response Strategies



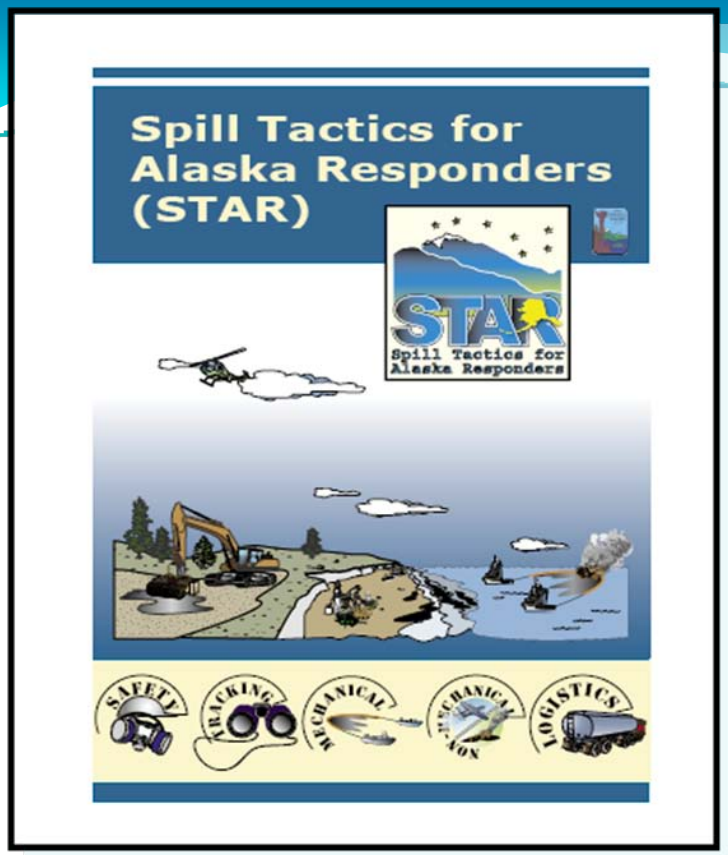
Tundra Treatment Manual

Permits Tool

GRIN Tool



Potential Places of Refuge



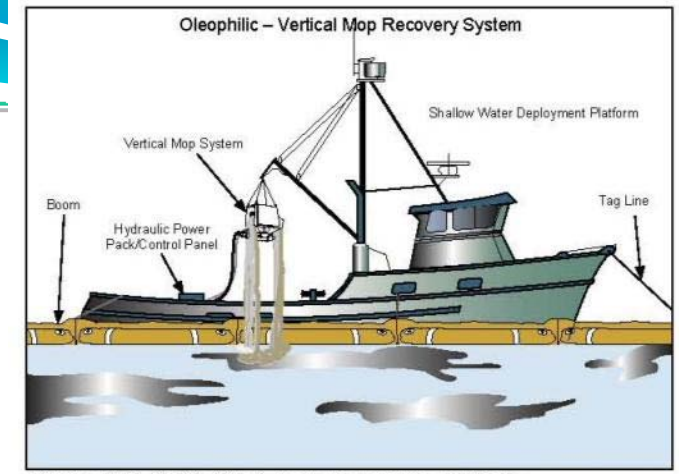


Figure MR-7. Vertical mop recovery system.

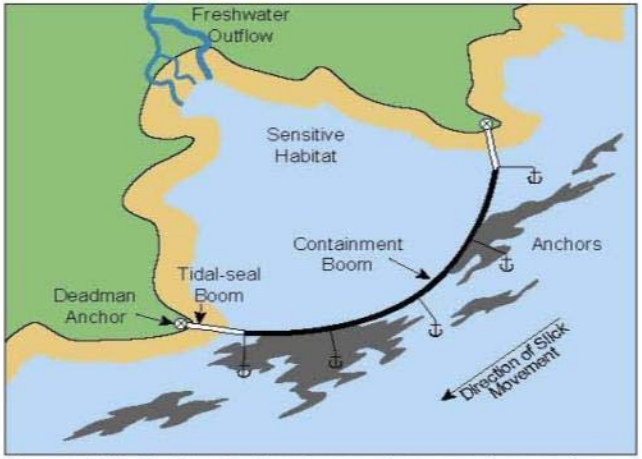


Figure EX-3. Exclusion booming configuration.

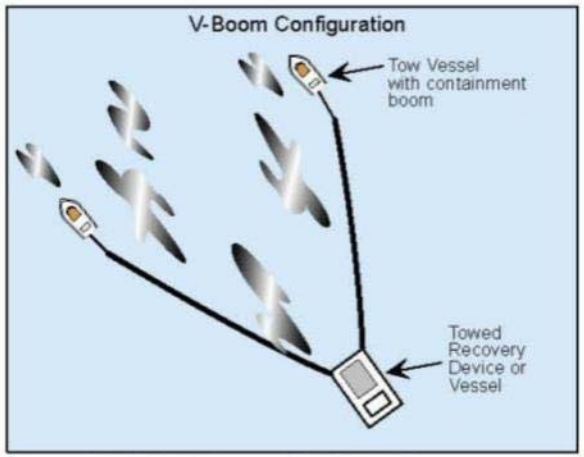


Figure FO-4. V-boom Configuration.

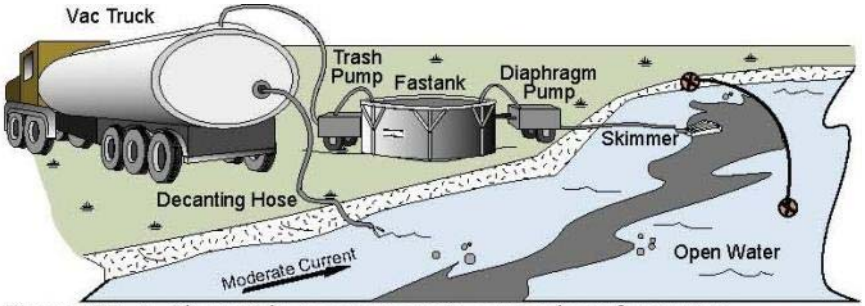
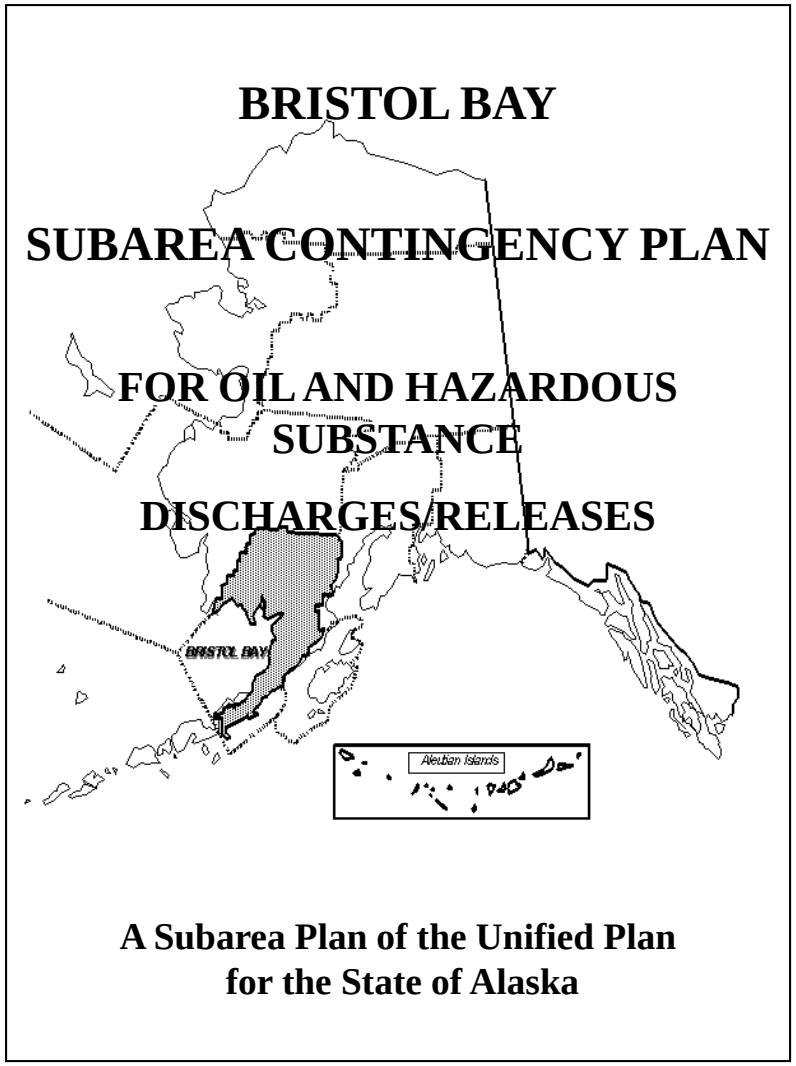


Figure SR-4. Shoreside recovery unit general configuration.

Bristol Bay Subarea Plan Schedule

- Agency and Tribal Government Review – Spring 2012
- Public Review – Spring/Summer 2012
- June 2012: GRS and PPOR Sections Completed
- Plan Finalized – Fall 2012



Questions/Discussion

http://dec.alaska.gov/spar/perp/index.htm