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Out-of-Region Response Equipment Survey

Final Report

Contract No: 603.00.1

Submitted to:

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24 January 2001 Converted to PDF format: 1 May 2001

Executive Summary

This study evaluates the quantity and type of "out-of-region" equipment that could be realistically transferred to Prince William Sound during a major oil spill by those organizations identified by vessel operators (Plan Holders) using Valdez terminal. Data were collected during summer 2000 based on Plan Holder submittals at that time. Results are compared to those obtained in 1996 and are reviewed in terms of outfitting a total of 14 Task Forces having a total of 154,000 ft boom, 84 skimmers and 168 storage units. In addition to response organizations identified by Plan Holders, this survey also includes equipment available from U.S. Coast Guard and the U.S. Navy Superintendent of Salvage (SupSalv). Equipment from ACS is selected for special review because Alyeska and the sister corporations of two Plan Holders are members, but Plan Holders are not direct members.

Results below are discussed in terms of changes in boom, skimmer and storage capacity from the previous survey conducted in 1996. If no government sources of equipment are included, there is an 18% increase of boom to 784,000 ft (Table A2-1), a 21% increase in the number of skimmers to 548 (Table A2-2), and an 11% loss in the number of primary storage units (transportable barges and bladders) as illustrated in Table A2-4 (loss of 32 units to a total of 262). Including government sources, there is a 35% increase in the number of boom feet, a 44% increase in the number of skimmers, and a 29% increase in the number of primary storage units. The type of boom available from all sources is differentiated in Table A2-9; ocean boom (>42") = 146,000 ft, nearshore boom (18"-42") = 325,000 ft, harbor/river boom (<18") = 400.000 ft, and fire boom = 25,000 ft.

Although data from 1996 are somewhat incomplete, skimmer capacity (barrels/day) is more than double that of 1996, to a total of 734,000 b/day including government sources. Without government sources, skimmer capacity still shows a substantial increase (169%). Total primary on-water storage nearly doubles to 153,000 b if government sources are included. However, without government sources, there is a 43,000 b decrease in capacity, largely due to differences between the surveys. In the 1996 survey, MSRC alone accounted for 29,750 barrel capacity based on 50% of the entire MSRC stock, while in this survey considers only MSRC equipment specifically stockpiled for transference (7,000 barrel total). See page 17 for specific details.

If all government and Plan Holder sources are included, the equipment necessary to outfit 14 Task Forces is available (Table A-5). However equipment shortfalls exist if only those sources designated by the Plan Holder and readily releasable are included. During major emergencies it would be expected that several sources (MSRC and NRC in particular) would be able to release more equipment than is currently listed here.

As shown in Tables A2-6 to A2-8a, without release of additional equipment, the material available from ACS enables all Plan Holders to have sufficient boom and skimmers. Without ACS, three Plan Holders fall short in the quantity of boom (Alaska Tanker, Chevron and SR/M) and one Plan Holder (Chevron) shows a shortage of skimmers. The number of storage units is less than the 168 units needed for all Plan Holders but one (Tesoro) when ACS equipment is included, and all fall short when ACS is not.

To ensure consistency between future evaluations, it is recommended that Plan Holders specifically identify the sources and type of equipment to fulfill the Alaska requirement to show capability of providing "out-of-region" response capability to contain and control the realistic maximum discharge in excess of the 500,000 barrel, 72-hour requirement currently being met by the Valdez Terminal. Official notification should be made when changes occur in response organization membership. Future surveys should also include evaluations of skimmer capacity and storage capacity in addition to the numbers of each.

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1.0 Introduction

Alaska statues at AS 4604.030 require that crude oil tank vessels carrying more than 500,000 barrels (b) show equipment and other resources sufficient to contain or control, and cleanup a 500,000 b discharge within 72 hours. Additionally, the plan holder shall maintain additional equipment, personnel and resources sufficient to contain, control and cleanup a maximum discharge within the shortest possible time. This study evaluates these "out-of-region" equipment resources including a comparison to 1996 data to determine changes that have occurred over the last four years. There are two facets of concern regarding designated "out-of region" responders:

- Do they truly have the equipment available to respond?
- How much of the equipment can be transferred to Prince William Sound (PWS) in view of local government and other contractual obligations?

Specific objectives of this survey include:

- Determine if there has been a net loss or gain in available equipment since 1996.
- Identify membership / contract changes of shippers in identified Oil Spill Response Organizations (OSROs).
- Confirm the current status of OSROs listed in current PWS vessel contingency plans.
- Survey available response equipment from non-OSRO stockpiles, specifically U.S. Coast Guard and U.S. Navy SupSalv and potentially available through the States / BC Task Force 1997 Mutual Aid Agreement.
- Determine and evaluate changes in domestic and foreign regulatory requirements that might impact the OSRO's ability to provide shippers with the identified resources.
- Determine and evaluate the impact that Geographic Response Plans outside of Alaska might have on cascading in resources.
- Update the list of regulators outside of Alaska with authority to release equipment from their region.
- Identify changes in mutual aid agreements that have been rescinded, modified or developed since the 1996 survey.

2.0 Survey Methods

After determining the OSROs designated by each Plan Holder (as of summer 2000), we directly contacted each organization. Equipment lists and related information was obtained from each, specifically focussing on the type and quantity of boom, skimmers, and on-water storage. Landbased Fastanks, Frac tanks and similar tankage was excluded. The previous 1996 equipment survey (Gilpatrick and Jones, 1997, "Field Monitoring and Out of Region Equipment Survey") was used as a basis to determine changes in equipment type and quantity.

OSRO managers and the relevant state / federal representatives were questioned regarding the requirements for transferring equipment from their stockpile or region to Prince William Sound. Specific questions included:

- The readiness of the listed equipment.
- Their contractual obligation to respond if called to PWS by a client ship owner.
- The quantity of equipment that could realistically be sent.
- Legal and other restrictions on moving equipment out of the region.

Site visits were conducted at the major U.S. OSROs identified as responders in the Prince William Sound Vessel Response Plans. Photographs were taken of the major equipment depots.

Equipment is divided into the following categories:

- Booms (four types: ocean, nearshore, river, and fire),
- Skimmers (type, number, and d-rated capacity), and
- On-water storage (barges, small (portable) barges and bladders.

The d-rated (effective daily rate) capacity was determined by the following:

- Accepting the OSRO's d-rated capacity if provided, assuming therefore that the equipment was tested or otherwise confirmed as to its actual ability to pick up oil.
- Calculating from the equipment's hourly capacity using R=Tx24hours x E, where R=effective daily recovery rate, T=throughput rate in barrels per hour (nameplate capacity) and E=20% efficiency factor (from Federal Register Vol. 58, No. 30, Appendix F to Part 112, Guidelines for Determining and Evaluating Required Response Resources for Facility Response Plans).

Conversions used in this report include: 7 barrels = 1 ton, and 42 gallons = 1 barrel. The letter 'b'' is used as the abbreviation for barrels.

The tables provided in Appendices 1 and 2 are linked. Changes to the OSRO sheets in Appendix 1 will be then reflected in the analysis tables in Appendix 2.

3.0 Results – Designated OSROs

The OSROs designated by each Prince William Sound Plan Holder are provided in Table 1. Equipment available through the U.S. Coast Guard and U.S. Navy are subdivided in this survey as to locations within and outside of Alaska (Table 2).

Table 1. Oil Spill Response Organizations (OSROs) for Valdez / Prince William Sound Plan Holders. SR/M = Sea River Maritime.

OSRO	Alaska Tanker ¹	Polar Tankers	Chevron	SR/M	Tesoro
ACS (Alaska Clean Seas)	Mer	nbership via	Alyeska meml	pership in a	ACS ²
Alaska Pollution Control Center		X ³			х
Burrard Clean					Х
CISPRI		3	Х		х
Clean Bay	Х	Х		Х	Х
Clean Coastal Waters	Х	Х		Х	
Clean Pacific Alliance		Х			Х
Clean Rivers		X ³			Х
Clean Seas				Х	Х
Clean Sound Coop	Х	Х			Х
EARL	Х				
Foss Environmental		Х			Х
IT (OHM)			Х		
MSRC	Х		Х	Х	Х
NRC		Х			Х
OSRL, UK	Х	Х		Х	Х
SeaPro					Х
Unitech of Alaska		Х			
Veco		Х			

¹As listed in BP PRAC registration = Clean Bay, Clean Sound, Clean Coastal Waters, EARL, OSRL, MSRC, SERVS, MSRC. Application to Alaska Dept. of Environmental Conservation, Oil Spill Primary Response Action Contractor, received: 8 Dec 1999.

²No Plan Holder shipping company is ACS member. BP Exploration (sister company of Alaska Tanker), and Phillips (owner of Polar) are members. ³After the survey was completed, in January 2001 Polar Tankers reported the following changes: dropped Alaska

³After the survey was completed, in January 2001 Polar Tankers reported the following changes: dropped Alaska Pollution Control Center, is able to access CISPRI via Phillips, uses Clean Rivers only when their tanker goes to Portland shipyard, and can access EARL via contract with OSRL.

Table 2. Other potential sources for "out-of-region" response equipment for Prince William Sound which were surveyed as part of this Study.

OTHER EQUPMENT SOURCES (2000 Survey)		
US Coast Guard Alaska		
US Coast Guard Marine Safety Offices / Strike Teams		
US Navy SupSalv Anchorage		
US Navy SupSalv Outside Alaska		

The OSROs designated in Table 1 represent a significant modification from those of the 1996 Survey. A comparison of OSROs designated in 1996 and 2000 are compared in Table 3. Note OSROs designated in 1996 only are included at the bottom of Table 3.

Table 3. Compariso	n of OSROs	designated in	1996 and 2000.
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0000	1996	2000
USRU	Survey	Survey
ACS (Alaska Clean Seas)	Х	Х
Alaska Pollution Control Center		Х
Burrard Clean		Х
CISPRI	Х	Х
Clean Bay	Х	Х
Clean Coastal Waters	Х	Х
Clean Pacific Alliance	Х	Х
Clean Rivers		Х
Clean Seas	Х	Х
Clean Sound Coop	Х	Х
EARL	Х	Х
Foss Environmental	Х	Х
IT (OHM)	Х	Х
MSRC	Х	Х
NRC	*	Х
OSRL, UK	Х	Х
SeaPro	Х	Х
Unitech of Alaska		Х

Veco		Х
ANCON	Х	
Clean Channel (Houston)	Х	
Delaware Bay & River	Х	
IMS	Х	
Industrial Cleanup, Inc.	Х	
Marine Pollution Control	Х	

*in 1996, NRC West Coast only included as part of Clean Pacific Alliance.

OSROs listed for each Plan Holder are indicated in Table 4. Not all designated OSROs have contracts with the company that designates them. For instance, Tesoro does not currently have a contract with Foss Environmental. Is a contractual linkage critical? E.g., would Foss not respond if requested by Tesoro? In most cases, particularly among independent contractors such as Foss, they would fully respond if requested and therefore a contract is not necessary for their inclusion in this evaluation.

Table 4. OSROs designated by each PWS Plan Holder. Each Primary Respondent is included in this evaluation. Those organizations that are listed under "Others" are referenced by the Plan Holder but are not included in this evaluation.

Primary Respondent	Others	
Alaska Tanker		
(under charter to BP)	Refers to assistance from lower 48, U.K, Singapore and the	
BP Primary Response Contractor (PRAC) registration = Clean Bay, Clean Sound, Clean Coastal Waters, EARL, OSRL, MSRC, SERVS, MSRC; 8 Dec 1999.	Caribbean	
Polar Tankers, Inc. (Phillips/Polar Tankers Inc)		
Alaska Pollution Control Center Clean Bay Clean Coastal Waters Clean Pacific Alliance Clean Rivers Clean Sound Foss Environmental Services National Response Corporation OSRL Unitech of Alaska Veco, Inc. *Note: Phillips is member of ACS.	(See note (3) in Table 1 regarding Jan. 2001 changes)	

Chevron Shipping Co. LLC			
IT Corp (formerly OHM) MSRC CISPRI	Listed as area of Coverage "US" MSRC Refers to assistance from lower 48, U.K, Singapore and the Caribbean		
SeaRiver Maritime Inc.			
ACS (assumed via Alyeska membership SR/M is not member) Clean Bay Inc. Clean Seas, LLC. Clean Coastal Waters, Inc. Clean Sound Cooperative, Inc. MSRC Oil Spill Response Ltd., UK	"has access to response equipment of several major cooperatives on the West Coast of the U.S. which may provide response resources consistent with the cooperative understandings developed by the States / British Columbia Oil Spill Task Force and in accordance with the state laws."		
Tesoro			
Defined in "Tesoro Prince William 'Alaska Oil Spill Cooperatives (OSRC	Sound Vessel Discharge Prevention and Contingency Plan, Section 3.81.)'s)' and Table 3-5, approved November 2, 1999; and page 1.6-2.		
Burrard Clean CISPRI Clean Bay Clean Pacific Alliance Clean Rivers Clean Sound Foss MSRC NRC SEAPRO *Clean Bay membership not active (8 Nov 00)	ACS (listed as source "Through SERVS will seek to obtain additional booms and skimmers if needed" p. 1.6-2. Others: Listed as "may be contacted to request additional equipment." BC Environment, Victoria, BC 604-356-7721 Bluewater Clean, Corunna, Ontario 519-862-2281 Beaufort Sea Coop, Calgary, Canada 403-233-5486 Canadian Coast Guard, W. Vancouver, BC 604-666-6011 Canadian Coast Guard, Ottawa 613-990-7012 Clean Coastal Waters, Long Beach, CA 310-432-1415 Clean Coastal Waters, Long Beach, CA 310-432-1415 Clean Coastal Waters, Long Beach, CA 310-432-1415 Clean Casco Bay, Inc., S. Portland, ME 207-828-4511 Clean Casco Bay, Inc., S. Portland, ME 207-828-4511 Clean Gulf Assoc., Inc. Houston, TX 713-676-2571 Clean Gulf Assoc., Inc. Houston, TX 713-676-2571 Clean Gulf Assoc., New Orleans, LA, 504-593-6724 Clean Harbors Cooperative, Edison, NJ 908-225-2301 Clean Slands Council, Honolulu, HI, 808-845-8465 Clean Rivers Cooperative, Portland, OR 503-220-2040 Clean Seas, Carpenter, CA 805-684-0970 Clean Sound, Edmonds, WA 206-744-0948 Cooperative Prevention Intervention Marine, Levis, Quebec 418- 833-8989 Corpus Christi Oil Spill Control, 302-645-7861 Eastcoast Spill Response, Inc. 709-576-1380 Environment Canada, N. Vancouver, 604-666-5900 Humbolt Bay Oil Spill, Eureka, CA 707-445-3002 LOOP, New Orleans, LA 504-368-5667 MSRC, Everett, WA 06-252-1300 National Response Center, Washington DC 800-424-8802 Petroleum Industry Marine Environmental Coop., Willowdale, Ontario 416-492-5677 Pier Atlantic, Ltd., Dartmouth, NS, Canada 902-461-9170 USCG Strike Team, CA 415-883-3311 USCG Anchorage 907-271-6721 US Navy SupSalv, DC 703-607-2758		

4.0 Results – Equipment

4.1 Ability to Release Equipment

OSROs and equipment available to be transferred are presented in Appendix 1. The list of primary contacts for equipment release (state agency representatives) is presented in Table 5. Other states do not have control over equipment release. Almost all the equipment referenced by Plan Holders resides in Alaska and on the West Coast. Equipment that may come from outside these areas (e.g. MSRC) is only equipment that is surplus to MSRC response requirements and therefore local approval is not necessary, although both the local state and Coast Guard offices would be notified.

Table 5. Agencies and contacted representatives that have influence over the release of equipment from their respective state.

Alaska	Oregon
Department of Environmental Conservation	Department of Environmental Quality
Brad Hahn	Mike Collzitch
555 Cordova Street	811 Southwest 6 th Avenue
Anchorage, AK 99501	Portland, OR 97204
907-269-7548	502-229-6931
California Office of Spill Prevention and Response Jack Geck 1700 K Street Sacramento, CA 95814 P.O. Box 944209 Sacramento CA 94244-2090 916-323-4664	Washington State Department of Ecology Roy Robertson P.O. Box 47600 Olympia, WA 98504-7600 360-407-7202

Requirements for the release of equipment are described below by state or region.

Alaska – Equipment movement by private entities from one region to another in Alaska has to be approved by the Alaska Department of Environmental Conservation. The Coast Guard would also be asked to concur. The base document regarding equipment transfers is entitled: "ADEC Approval Guidance for Industry Spill Response Equipment Transfer" (Draft 3/97, 2 pages). Key elements of the procedure are a request to the State that specific resources be moved, an estimated time period, and a description of Plan Holders affected by the transfer. The State On-Scene Coordinator (SOSC) will review the request and determine whether to approve part or all of the request, and whether additional prevention measures will be required.

The approval period is for 30 days after which extensions may be requested. Equipment not expected to be returned (e.g. sorbents) should be replaced as soon as transferred. Other equipment not returned should be replaced as soon as the condition is known. An interview with the SOSC indicated that during a major spill emergency in Prince William Sound, there would be no hesitation to approve / order all necessary transfers.

In addition to private entities, both the U.S. Coast Guard and U.S. Navy SupSalv maintain substantial stockpiles of equipment in various locations inside Alaska. The Anchorage depot houses equipment for both organizations. All equipment is prepared for immediate shipment by truck and air. Requests for equipment would come from the Coast Guard Federal On-Scene Coordinator. Approval for Coast Guard equipment would essentially be automatic from the District Office or Marine Safety Office. Similarly, SupSalv would approve the release of equipment requested at part of the National Contingency Plan. SupSalv would response directly (without Coast Guard requests) in cases involving the Navy. In cases involving a massive spill in PWS, interviews indicate that there is no doubt that this material would be released as needed during the response.

West Coast (Private OSROs) – The OSROs located in the U.S. West Coast present some of the most likely sources of equipment to be accessed. The procedures for obtaining this equipment are guided by the States / British Columbia Oil Spill Task Force Mutual Aid Agreement, approved in 1996. The Mutual Aid Agreement requires "resident" equipment in each Captain of the Port area. By meeting these criteria, state and Geographic Response Plan requirements are met. These criteria and procedures are summarized below.

Washington and Oregon – As indicated in the Mutual Aid Agreement, coops and private OSROs designated by Plan Holders must keep a minimum level of equipment in the area to meet 12 hour and lower hourly response standards (e.g. 1, 2 and 6 hours). The 12-hour response standard is designated at the "resident" response capability, which must be maintained until additional resources are cascaded into the area. Decisions on mutual aid will be made for 30 days, beyond which it will be on case-by-case basis. Plan Holders must notify their respective state agencies (i.e. Washington Department of Ecology and Office of Marine Safety, or Oregon Department of Environmental Quality) within 24 hours of changes to their response capabilities. Equipment required to remain in Washington / Oregon's Captain of the Port (COTP) zones is listed in Table 6.

COTP Zone Puget Sound	Equipment Requirement
Boom (ft)	40,000
Recovery (d-rated b/day)	36,000
Storage (b)	54,000
COTP Zone Portland	
Boom (ft)	40,000
Recovery (d-rated b/day)	15,000
Storage (b)	22,500

Table 6. "Resident" response capability required to remain in each COTP area in Washington / Oregon (from States / British Columbia Oil Spill Task Force Mutual Aid Agreement).

The Washington State representative indicates that most of this requirement is met by the Coop in each COTP area, enabling other OSROs to provide their more-readily transferable equipment to PWS (e.g. Foss and MSRC). In Oregon, the State agency indicates that unless support can be verified from other sources, it would be difficult for the State to allow all non-Coop equipment to leave. The values in Appendix 1 for each Coop take into account maintenance of the minimum level, but note not all equipment, particularly storage capability, is indicated. Although Foss has indicated that all equipment could be transferred during an emergency, we have used a value of 80% here to reflect the desire of the State agency to be assured that "resident" equipment requirements would still be met.

California – California is also part of the States / British Columbia Oil Spill Task Force Mutual Aid Agreement. As indicated in the State Specific Standards of the Agreement, the equipment that must remain in the local area is the lesser of the (1) the Response Planning Volume for that owner / operator, or (2) the regulatory non-cascadable equipment listed for that area (Table 7). As the Mutual Aid agreement is among governments, the request for equipment must come from a signatory state agency. Requests from the Plan Holder or another cleanup contractor, therefore, would have to be approved by California (Office of Pollution Prevention and Response – OSPR) as well as the local Coast Guard office.

Once approved, daily recovery rates as set by regulation are granted necessary waivers from this obligation. Because the response organizations are private entities, OSPR has no control over whether they would respond as requested. As with the other states of the Agreement, approval is for a period of 30 days, after which decisions on mutual aid will be made on a case-by-case basis. Transferred equipment from California will be returned before equipment from other states, unless the equipment required is only from California.

As in Washington, some private groups (Foss) have indicated that they would be able to move all their equipment. OSPR may assist negotiations between the Coop and the private entity to mutually determine which equipment should remain in the state. As with Washington and Oregon, a more conservative 80% is used for Foss regarding the quantity of equipment that would be transferred.

Table 7. Non-cascadable equipment requirements (b/day) COTP areas in California. The level recovery required includes appropriate levels of boom, interim storage, personnel and support equipment in d-rated capacity (from States / British Columbia Oil Spill Task Force Mutual Aid Agreement).

COTP Zone Alameda	Equipment Requirement (b/day)	
Humbolt Bay	2,500	
San Francisco Bay area	10,000	
Subtotal	12,500	
COTP Zone Los Angeles/Long Beach		
Estero Bay	2,500	

Santa Barbara Channel	10,000
Los Angeles / Long Beach Harbor	10,000
Subtotal	22, 500
COTP Zone San Diego	
Carlsbad / Encina	2,500
San Diego Harbor	2,500
Subtotal	5.000
Statewide Equipment Requirement	40,000

Non-West Coast (Private OSROs) – For those designated OSROs that may be located outside the West Coast (e.g. National Response Corporation (NRC) and the Marine Spill Response Corporation (MSRC), the equipment list provided in Appendix 1 reflects only those materials that can be transferred while still maintaining conformance to local response requirements. This is a change from the 1996 study that used 50% of MSRC's total equipment (resulting in a decline from 150,000 ft of boom in 1996 to 13,000 in 2000). Approvals from the local state agency and Coast Guard Marine Safety Office are therefore not necessary, although each would be notified.

Outside Alaska / **U.S. Government** – The U.S. Coast Guard and U.S. Navy SupSalv maintain equipment in various stockpiles throughout the continental U.S., territories and Hawaii. Equipment can be accessed for transfer to PWS upon request of the U.S. Coast Guard Federal On-Scene Coordinator. In most cases, Coast Guard equipment would be requested to the National Strike Force Coordination Center (NSFCC) which would determine the type, location, and quantity of equipment to be transferred. In some cases, requests may be made of the Coast Guard District Office (which in turn would likely confer with the NSFCC). Therefore, the NSFCC is given as the source for Coast Guard Isted as outside of Alaska. Navy SupSalv equipment also needs to be requested by the Coast Guard. To obtain SupSalv equipment outside of Alaska, the central office in Arlington VA is indicated in Appendix 1, with phone reference provided to other offices surveyed for this study. Importantly, all the equipment from both Coast Guard and SupSalv can be acquired via contact to the central offices indicated for each.

Outside Alaska / International – Three OSROs outside the U.S. are designated by Plan Holders: Burrard Clean in British Columbia, East Asia Response Limited (EARL) in Singapore, and Oil Spill Response Limited (OSRL) in the United Kingdom.

The possible transfer of equipment from British Columbia falls under the States / British Columbia Oil Spill Task Force Mutual Aid Agreement which states that above the Canadian governmentmandated 10,000 ton recovery standard, that "it is a matter for industry and the Canadian Coast Guard to decide". In discussions with Burrard Clean it was indicated that they would respond as able to a request from the Canadian Coast Guard which would act if requested by the U.S. Coast Guard. There was an indication that Customs and other issues would likely interfere with the transfer, and that their impression was that a transfer request to them would be highly unlikely. Additionally, only Tesoro designates this responder, and membership could not be confirmed. For this reason, only a 10 percent value was given as to the amount of equipment likely to be able to be transferred.

In contrast, both EARL and OSRL are entirely geared toward responding to an incident outside their national borders. Equipment is packaged and ready for immediate transport. Both groups would respond in entirety to all equipment requested.

4.2 Changes in Equipment Available 1996 to 2000

Data from this 2000 survey are compared to 1996 values in Appendix 2 Tables A2-1 to A2-4. Note that in 1996 equipment from U.S. agencies was not included in the survey.

Boom – As shown in Appendix 2 Table A2-1 more than 900,000 ft of boom is available in 2000, representing a gain of >35% from the 667,000 ft available in 1996. A total of 116,000 ft of the gain is provided by Navy SupSalv and Coast Guard sources.

Skimmers – The quantity of skimmers has increased by over 40% since 1996 to almost 650 in 2000 (Table A2-2). The capacity of available skimmers has increased substantially (over 200%) to over 1 million b/day), although part of this gain is artificial because the 1996 survey did not provide the capacities of many of the skimmers. A gain of 101 skimmers and 200,000 b/day capacity is represented by U.S. federal agencies.

On-Water Storage – "Out-of-region" on-water storage was a shortfall identified in the 1996 study. Table A2-3 shows the comparison to 1996 data for all (primary and secondary) storage capacity identified by this survey. There is a gain of nearly 30% in the number of on-water storage devices and a gain of >450% in capacity. As with skimmers, part of the gain is artificial because capacities were not always provided in 1996. In addition, this year 2000 survey includes large barges and vessel-related capacity as part of the totals provided in Table A2-3. Therefore, vessels and large barges ("secondary" storage) are removed in Table A2-4. Table A2-4 shows 342 available primary (portable barges and bladders) storage units, which is comparable to the 294 units found in 1996 (a gain of 48%). However, a major portion of new storage resides with U.S. agencies (98 in total). Without the gain from government sources, the number of storage units shows a 17% decline to 50 units and a 48% decline in capacity (Table A2-4).

4.3 Analysis of Task Force Capability

In addition to 500 vessels (not included in this survey), out-of region equipment requirements have been defined by the 1996 Study as needing 14 Task Forces having the following:

- 154,000 ft boom
- 84 skimmers
- 168 storage devices (not counting secondary storage)

Table A2-5 in Appendix 2 evaluates the ability to meet these values by the designated OSROs combined with U.S. agency stockpiles, and reviews the results of the 1996 survey. Results of the analysis are discussed below.

Boom – The requirement for 154,000 ft of boom was met in 1996 and continues to be met in 2000. In this review, 1996 showed a surplus of over 500,000 ft, which increased even further in 2000, to a surplus of over 750,000 ft.

Skimmers – A total of 84 skimmers are required. Because 1996 data regarding skimmers is not complete, this study re-calculated the number of skimmers available in 1996 based on the total number available (1996 report, Appendix 6) multiplied by the percentage that could be transferred (Appendix 8). Unfortunately some values are not given and the percentage is sometimes shown as a range. In any case, it is our best judgement that in 1996 there was a surplus of over 350 skimmers in 1996 which has increased to a surplus of over 500 skimmers in 2000 (Table A2-5).

The 1996 Study further differentiated skimmers into "desirable" and "suitable", of which the Study reports in the text as a surplus of 122 and 347 respectively. The 1996 Study further subtracts non-West Coast resources and equipment that may not be released, thereby indicating a lesser surplus of 33 and 195 skimmers, respectively for desirable and suitable. This 2000 survey does not differentiate potential skimmers into suitable or desirable, but leaves the full arsenal available for selection dependent on oil type (e.g. crude and/or bunker oils) and environmental conditions, but has eliminated equipment that was uncertain to be transferred. As surpluses existed for both suitable and desirable skimmers in 1996 with over 350 skimmers identified, it is clear that surpluses will continue in 2000.

Storage – A storage capacity of 168 units is required to fill 14 Task Forces. It is our best estimate using 1996 data (based on the 1996 Study's number of storage units of all types as indicated in Appendix 6 multiplied by the percentage able to be transported) is that there was an excess of over 125 units in 1996, which has increased to a surplus of over 200 units in 2000 (Table A2-5).

However, the textual description in the 1996 Study decreases the number of surplus storage units downward to a total of only 41 units. This value could not be duplicated but is considered as comparable to the 174 surplus storage units noted in this year 2000 study after elimination of secondary units and on-board skimming storage (Table A2-5).

The 1996 study further reduces the number of available storage units by first counting only those having a capacity of 95 barrels and above, and then by eliminating non-West Coast and units that would not be transferred. The 1996 textual description describes a shortfall of 35 units once non-West Coast/non-transferable units are eliminated, which increases to a shortfall of 88 units when only units equal to or greater than 95 barrels are considered. This survey, in contrast, still finds a surplus of 38 units when similar restrictions are placed on the equipment to be transferred. There are also 35 potential secondary (large barge) storage units under control of the designated OSROs.

4.4 Analysis of Plan Holder Capability

The analysis above considered the total of all designated and governmental resources that could be brought to bear on a major spill in PWS. The evaluation below considers only those resources designated by each Plan Holder, and reviews those resources against their ability to outfit 14 Task Forces.

The material from ACS is highlighted in the analysis below to enable reviewers to decide how strict membership in ACS should be in order to be included. Plan Holders, by strict definition, are not members of ACS. But Alyeska is a member which is may be considered to provide coverage to the Plan Holder. Additionally, sister companies of Alaska Tanker (BP Exploration) and Polar Tankers (Phillips) are members. In any case, there is no doubt that ACS would respond to a major incident in Prince William Sound.

Boom – The quantity of boom available that is available from the OSROs designated by each Plan Holder is listed in Appendix 2 Table A2-6. By this analysis, with the presence of ACS equipment all companies meet the 154,000 ft of boom criteria. If ACS material is excluded, then three companies (Alaska Tanker, Chevron and SR/M) do not meet the criteria.

The type of boom available from all sources is presented in Table A2-9. Results indicate that over 400,000 ft of <18" harbor boom, more than 325,000 ft of nearshore boom (18"-42"), 145,000 ft of ocean boom (>42"), and 25,000 ft fire boom are available.

Skimmers – The analysis of skimmer number and capacity listed by each Plan Holder is presented in Appendix 2 Table A2-7. With ACS material, all Plan Holders have access to the 84 skimmers needed to outfit 14 Task Forces. Without ACS, Chevron (65 skimmers) does not meet the criterion.

Storage Capacity – A total of 168 primary storage units are required to complete 14 Task Forces. As illustrated in Appendix 2 Table A2-8a, with ACS only one Plan Holder (Tesoro with 184 units) shows more than 168 total storage units (including those <95 b).

If only storage units equal to or larger than 95 b are considered (Appendix 2 Table A2-8b), no Plan Holder meets the criterion.

5.0 Recommendations

To determine the amount of equipment available from these sources is in many cases difficult to precisely pin down and will make consistency between evaluations difficult to obtain (e.g. whether all or part of MSRC resources are counted). As the Plan Holder does not define specifically what quantities are expected from where, this is likely to result in discrepancies between surveys and will increase the difficulty in determining if shortfalls truly exist. As illustrated here, several Plan Holders show shortfalls in several response categories, but it is likely (although undefined) that additional materials can be brought in using other stockpiles and contractors. Therefore, it is a recommendation that the Plan Holder assist in making this evaluation fully realistic by designating the type and source of "out-of-region" equipment, as currently required under Alaska regulation 18 AAC 75.425(e)(3)(F).

In terms of guidelines for the next survey, this review exceeded the 1996 survey by providing drated skimmer capability as well as storage capacity for all equipment. It can be argued that knowing these capabilities and capacities is more important for spill planning than knowing the sheer number of skimmers or storage units. We believe that the next survey should also seek these values.

APPENDIX 1 OIL SPILL RESPONSE ORGANIZATIONS	
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OIL SPILL RESPONSE ORGANIZATIONS Name Alaska Clean Seas Address **Pouch 340022** City **Prudhoe Bay** Zip 99734 State **AK** Phone **907-659-2405** Fax 907-659-2616 Other direct line 907-659-3220 Contact Jim McHale, General Manager Previous Survey **1996** Members Capability to respond in PWS provided by Alyeska membership. BP Exploration (same owner as Alaska Tanker) and Phillips (Polar Tankers) are members. Comments Received latest equipment list, June 2000. Almost all equipment is available after freeze-up; equipment transfer dependent on approval of members and State of Alaska. A figure of 100% is used, same as in 1996. Material can be expected to arrive in Valdez by air within 12 hours and a few days by road. The State of Alaska may require all resources be sent. The period of State approval to move resources is for 30 days and is renewable. Equipment Boom Feet **Characteristics** Ocean 9,800 >42" 73,441 18-42" 6x12, 11x15, 14x24, ShoreSeal and others Nearshore Harbor/River 212,025 <18" Delta 4x6 and 8x6,etc; Fast River Fire boom 19,102 314,368 Total Boom ACS 314,368 100 % estimate of availability for PWS. Skimmers d-rated b/d Total b/d No. Type 907 9.072 Disc 30K (189 b/hr) 10 480 9 4,320 Disc 12K MK11 (100 b/hr) 139 7 974 Disc M1-11/24 (29 b/hr) 1 432 432 Disc M2 12 volt (9 b/hr) 686 6 4,118 Disc MI 30 (143 b/hr) Disc Ocean (315 b/hr) SeaSkimmer 50 1512 1,512 1 3 4,896 Disc T-54 (340 b/hr) 1632 662 3 1,987 Drum or Brush (138 b/hr) Drum or Brush, Mini (100 b/hr) 480 14 6,720 158 4 634 TDS 118 (33 b/hr) 331 3 994 TDS 136 (60 b/hr) 3427 3 10.282 Trans-Vac (714 b/hr) Lori Side (27 b/hr) 3427 8 27,418 Skimmer Foxtail (240 b/hr) 1152 1 1,152 67 38 2,554 Rope Mop various (14 b/hr) 3 Rope Mop (29 b/hr) 139 418 Rope Mop (114 b/hr) Foxden 2-9 (Foxtail) 547 1 547 Manta Ray (34 b/hr) 163 64 10.445 1372.8 Alum (143 b/hr) 686 2 Desmi 250 Ocean (528 b/hr) 2534 1 2534.4

	2112	3	6,336	Desmi Harbor (44	10 b/hr)		
	754	2	1,507	Destroil (157 b/hr	stroil (157 b/hr)		
	34	1	34	Electric Weir (7 b	p/hr)		
	2333	2	4,666	FastFlow (486 b/	/hr)		
	686	4	2,746	Mini FastFlow (14	3 b/hr)		
	288	10	2,880	Slurp (approx 60	b/hr)		
	230	1	230	Weir SkimPak (48	3 b/hr)		
	7536	1	7,536	Transrec 250 (15	70 b/hr)		
	1200	1	1,200	Walosep W1 (250) b/hr)		
	2813	1	2,813	Walosep W4 (586	3 b/hr)		
		208	122,328	Total			
Skimmers	ACS	208	122,328	100	% available fo	or PWS.	
-							
On-water	Storage	No.	Capacity (b)	Total (b)	Comment		
	Barges	10	249	2,490	Mini's		
		2	125	250	Mini's 47		
	Bladders	20	54	1,071	Tank Bladder	2250 gal	
		3	60	179	Tank Bladder	2500 gal	
		3	29	86	T. BI Tow 120	0 gal	
		4	48	190	T. Bl. Tow 200)0 gal	
		1	12	12	T. Bl. Towlift 5	00 gal	
		10	63	629	T. Bl. Towlift 2	.640 gal	
		2	6	12	T. Bl. Towable	250 gal	
		1	60	60	T. Bl. Towable	2500 gal	
		6	119	714	T. Bl. Towable	5000 gal	
		2	595	1,190	T. Bl. 25000 g	al (towable)	
		2	238	476	T. Bl. Towlift 1	0000 gal	
		66		7,359			
Storage	ACS	66		7,359	100	% available	
			1	1			
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment		
S	econdary (barges)	12	374	2,740			
	Total:	12		2,740	100	% available	
Primar	ry (bladders >94b)	10		2,381			
	Total:	10		2,381	100	% available	
Primar	ry (bladders <95b)	44		2,238			
	Total:	44		2,238	100	% available	
	Vessels						
	Total:	0		0	100	% available	
		66		7,359			
Storage	ACS	66		7,359	100	% available	
_							
Compariso	on to Previous Su	rvey	ACS				
Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss	
1996	Boom (ft)		155,851	100	155,851		
2000	Boom (ft)		314,368	100	314,368	158,517	
1996	Skimmers (b/d)	146	23,714	100	23,714		
2000	Skimmers (b/d)	208	122,328	100	122,328	98,614	
1996	Storage (b)	26	8,849	100	8,849		
	$O_{1} = \cdots = \langle I_{n} \rangle$	66	7 250	100	7 250	4 400	

		OIL SPILL	RESPONSE ORG	NIZATIONS		
Name	Alaska Pollution	Control C	ontor]
Address	8040 Hartzell Ro	ad	enter			
City	Anchorage	44				
State	Alaska	Zip	99507			
Phone	907-344-5036	Fax	907-349-6925			
Other		Tux	001 040 0020	L		
Contact	Jeff Steenhoven			P	revious Survey	None
Members	Tesoro		Polar Tankers			
Weinberg	103010					
Comment	S					
Company I	handles petroleum	recycling a	nd tank cleaning. No	o longer provides w	vater-based res	sponse.
Fauipmen	t					
Boom		Feet	Characteristics			
	Ocean	0	>42"			
	Nearshore	0	18-42"			
	Harbor/river	0	<18"			
	Fire boom	0				
		0	Total			
Boom	AK Poll. Contr.	0	100	% estimate of av	ailability for PV	VS.
Skimmoro	d rated h/d	No	Total h/d	Tupo		
Skilliners	u-raleu b/u	<u> </u>		Total		
Skimmers	AK Poll, Contr.	0	0	100	% available fo	or PWS.
		•	.		,	
On-water	Storage	No.	Capacity (b)	Total (b)	Comment	
		0		0		
Storage	AK Poll. Contr.	0		0	100	% available
04 mm 7		A./ -		T = 4 = 1 //=)	0	1
Storage B	reakdown	NO.	Capacity (b)	l otal (b)	Comment	
50	Total	0		0	100	% available
Primar	$\frac{100al}{2}$ (bladders >94b)	0		0	100	
1 minut	Total:	0		0	100	% available
Primar	y (bladders <95b)	-		0		,
	Total:	0		0	100	% available
	Vessels					L.
	Total:	0		0	100	% available
		0		0		
Storage	AK Poll. Contr.	0		0	100	% available
Comparia	on to Providue Si		AK Poll Contr			
Vear	ltem	No Avail	Length / Canacity	% est Available	PWS Avail	Gain/Loss
None	Boom (ft)	1 VO. AVAII.	Longin / Capacity		0	0011/2033
2000	Boom (ft)		0	100	0	0
None	Skimmers (b/d)		-		0	
2000	Skimmers (b/d)	0	0	100	0	0
None	Storage (b)				0	
2000	Storage (b)	0	0	100	0	0

OIL SPILL RESPONSE ORGANIZATIONS							
Nama	Burrard Clean						
Addroop	201 Konsington	Avanua					
Address	201 Kensington /	Avenue					
Drovingo	Burnaby	Codo					
FIOVINCE	ВС	Coue	VJC JFZ				
Phone	604-294-6001	Fax	604-294-6003				
Other	www.burrardclean	.com; 24 h	our 604-294-9116; N	lartyn Green, Mar	nager		
Contact	Craig Duggans, (Operations	Manager		Previous Survey None		
			1				
Members	Tesoro						
Comments							
Provides re	sponse support in	BC as requ	ired by Canada Shir	oning Act			
Can only be	e invoked for PWS	response i	f requested by Cana	dian Coast Guard	d which needs		
request of	US Coast Guard	as invoking	the US / Canadian S	Spill Response Pla	an.		
Equipment	is stored at various	s sites through	ughout BC.				
Equipment	t						
Boom	-	Feet	Characteristics				
	Ocean	6,000	>42"	Ro-Boom, Kepne	er		
	Nearshore	76,000	18-42"	39" pressure infla	atable, shore sealing		
	Harbor/river	,	<18"	12"self inflating,	foam flotation		
	Fire boom						
E		82,000	Total				
Boom	Burrard	8,200	10	% estimate of a	vailability for PWS.		
Skimmers	d-rated b/d	No.	Total b/d	Туре			
	84	1	84	T-Disk, 2-3 tons/	hr		
	84	1	84	Oleaphilic disk, 2	2-3 tons/hr		
	134.4	1	134	Weir, 3-5 tons/hr			
	50.4	1	50	Rop mop, 1-2 to	ns/hr		
	50.4	1	50	VOSS inclined p	lane 1-2tons/hr		
	1368	2	2,736	GT-185 on barge	e .		
	4336	1	4,336	Lori Brush on ski	immer vessel		
	3200	1	3,200	Conveyor vessel	(capacity estimated only)		
	3200	1	3,200	Marco conveyor	(capacity estimated only)		
Cluima ma a ra	Dumord	10	13,875	1001			
Skimmers	Burrard	Ĩ	1,388	10	% available for PWS.		
On water (Storago	No	Conocity (b)	Total (b)	Commont		
Un-water S	Barges	1 1	14 066	14 966	Barge No. 10		
(total storag	Daiyes	1	7 161	7 161	Barge No. 17		
	y = 0007 (010)	1	112	112	16 ton barge		
Rlade	der Small Barge	7	140	980	20 ton (# approx)		
Diau		58	35	2 030	4-10 tons		
	Vessels	3	256	768	Nos 12 and 9		
	v 000010	71	200	26 017			
Storage	Burrard	7		2 602	10 % available		

Storage Br	reakdown	No.	Capacity (b)	Total (b)	Comment	
Se	condary (barges)	3		22,239		
	Total:	0		2,224	10	% available
Primar	y (bladders >94b)	7		980		1
	Total:	1		98	10	% available
Primar	y (bladders <95b)	58		2,030		L
	Total:	6		203	10	% available
	Vessels	3		768		
	Total:	0		77	10	% available
		71		26,017		
Storage	Burrard	7		2,602	10	% available

Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
None	Boom (ft)				0	
2000	Boom (ft)		82,000	10	8,200	8,200
None	Skimmers (b/d)				0	
2000	Skimmers (b/d)	1	1,388	10	139	139
None	Storage (b)				0	
2000	Storage (b)	7	26,017	10	2,602	2,602

OIL SPILL RESPONSE ORGANIZATIONS								
Name	Cook Inlet Snill F	Provention	& Response Inc.					
Address	Boy 7314	Tevention	a Response nic.					
City	Nikieki							
State		Zin	99635					
Otate		Ζip	33033					
Phone	907-776-5129	Fax	907-776-2190					
Other	Pager: 907-262-3	406	307-770-2130					
Contact	Doug Lentsch G	eneral Mar	nager	F	Previous Survey 1996			
Contact	Doug Lontoon, C	onoral mai	lagoi	· · ·				
Members	Chevron		Tesoro					
J	1		1					
Comments	S							
Visited 13	July 2000 during w	hich review	ed inventory and to	oured facilities.				
Equipment	is located onshore	Nikiski, on	offshore barges a	nd in Anchorage.				
Can releas	e as much equipm	ent as appr	oved by Board of D	Directors and State of	of Alaska.			
Has agree	ment to support Alv	eska. Neg	otiations regarding	compensation are of	continuing.			
Material ca	in be transported b	y air, road o	or by boat to PWS	within hours to days				
100% is co	nsidered available	to PWS de	pending on Board	of Directors. State of	of Alaska may require all			
available	resources be sent.	Period of S	State approval to m	ove resources is for	30 days (renewable).			
			••		· · · · · · · · · · · · · · · · · · ·			
Equipmen	t							
Boom		Feet	Characteristics					
	Ocean	30,650	>42"					
	Nearshore	32,700	18-42"					
	Harbor/river	11,900	<18"					
	Fire boom	6,000						
		81,250	Total					
Boom	CISPRI	81,250	100	% estimate of av	ailability for PWS.			
Skimmers	d-rated b/d	No.	Total b/d	Туре				
		1	0	Action Petroleum				
	384	3	1,152	Komara Mini Skin	nmers (80b/hr)			
	1368	5	6,840	Manta Ray Skimn	ners (285 b/hr)			
	288	11	3,168	Rope Mop Machi	nes (60 b/hr)			
	288	3	864	Skim Pacs (60 b/l	hr)			
	4032	1	4,032	Transvac 3310 (8	40 b/hr)			
	2016	2	4,032	Transvac 3310 (4	20 b/hr)			
	1440	1	1,440	LPI Skimmer (300) b/hr)			
	1714	4	6,854	Odd Skimmer (35	57 b/hr)			
	195	3	585	Foxtail - 4 Rope				
	2059	2	4,118	Desmi 250 (429 b	o/hr)			
	2563	4	10,253	Foxtail VAB 8-14	(534 b/hr)			
	4336	3	13,008	Lori Brush Syster	n (371 b/hr; 4336 b/d)			
	2914	3	8,741	Desmi 250 Ocear	n (607 b/hr)			
	6034	1	6,034	Transrec 200 (12	57 b/hr)			
	7546	1	7,546	Transrec 250 (15	72 b/hr)			
		48	78,667	Total				
Skimmers	CISPRI	48	78.667	100	% available for PWS.			

On-water :	Storage	No.	Capacity (b)	Total (b)	Comment	
	Barges	4	100	400		
		1	12,200	12,200		
Blad	der, Small Barge	4	23	92		
		7	47	329		
		1	50	50	Noyle	
		6	59	354		
		4	95	380	towable flotation	n
		1	3,262	3,262	Dunlop bag	
		1	3,145	3,145	Unitor bag	
		1	250	250	Uniroyal	
		30		20,462		
Storage	CISPRI	30		20,462	100	% available
Storage B	reakdown	No	Canacity (h)	Total (b)	Comment	
Storage D	econdary (barges)	5		12 600	Comment	
0		5		12,000	100	% available
Prima	ry (hladders >9/h)	7		7 037	100	
1 mma	Total:	7		7,037	100	% available
Prima	$r_{\rm V}$ (bladders < 9/b)	18		825	100	
1 mma	Total:	18		825	100	% available
	Vessels	10		020	100	
	Total:	0		0	100	% available
	i otali.	30		20 462	100	
Storage	CISPRI	30		20,462	100	% available
Ŭ	I	I		,		l
Comparise	on to Previous Su	rvey	CISPRI			1
Year	ltem	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)		77,577	50	38,789	
2000	Boom (ft)		81,250	100	81,250	42,462
1996	Skimmers* (b/d)	18.5	46,456	50	23,228	
2000	Skimmers (b/d)	48	78,667	100	78,667	55,439
	Storage (h)	13	8,849	50	4,425	
1996	Storage (b)	_				

		OIL SPILL	RESPONSE ORG	ANIZATIONS	
Nome					
Name	Clean Bay, Inc.	A			
Address	2070 Commerce	Avenue			
City	Concora	7:0	04500		
State	California	Zip	94520		
Phone	925-685-2800	Fax	925-825-2203		
Other of	cleanbay1@aol.co	om	L	•	
Contact	Stephen D. Ricks	s, Presiden	t		Previous Survey 1996
Maria kara					
Members	Alaska Tanker		Sea River Maritim	le	
	Polar Tankers		Tesoro		
Comments					
Visited office	e / warehouse on	10 August 2	2000. Equipment is	located at various	locations in Monterey
and San F	rancisco Bay, and	is tracked	using computer-bas	ed maintenance s	ystem. Inspected
equipment	appears in good	condition.	They reserve 66% of	of their equipment a	as non-cascadeable.
USCG and	State of CA would	be notified	for concurrence.	• •	
Other equip	ment may be avai	lable with c	oncurrence of Boar	d of Directors, CA	and USCG.
5 people ca	n be provided for	out-of -area	response.		
Via air trans	port, material can	be expecte	ed to arrive within 30	6 to 48 hours in PV	VS.
Equipment					
Boom		Feet	Characteristics		
	Ocean	4.850	>42"		
	Nearshore	9,600	18-42"		
	Harbor/river	6,000	<18"		
	Fire boom	-,			
		20.450	Total		
Boom	Clean Bay	6,749	33	% estimate of a	vailability for PWS.
H		,			
Skimmers	d-rated b/d	No.	Total b/d	Туре	
	3,288	1	3,288	OSRV CB 1 or 2	
	445	1	445	Marco Class 1	
	3,562	1	3,562	Walosep W-4	
	1,368	1	1,368	GT-185	
	3,000	1	3,000	GT-260	
	2,328	2	4,656	Desmi 250	
	34	4	136	SMI 4" Rope Mo	p
		11	16,455	Total	
Skimmers	Clean Bay	4	5,430	33	% available for PWS.
			.	— / • / •	
On-water S	storage	No.	Capacity (b)	Fotal (b)	Comment
	Barges				
Bladd	ter, Small Barge	6	60	360	
		6	100	600	Rigid Dracone
		12		960	
Storage	Clean Bay	3.96		317	33 % available
Storage Dr	aakdown	Na	Consoit (/b)	Total (b)	Commont
Storage Br	canuowii	110.			Comment
Se	conuary (barges)	U		U	

	Total:	0		0	33	% available
Primar	y (bladders >94b)	6		600		
	Total:	2		198	33	% available
Primar	y (bladders <94b)	6		360		
	Total:	2		119	33	% available
	Vessels					
	Total:	0		0	33	% available
		12		960		
Storage	Clean Bay	4		317	33	% available
Compariso	on to Previous Su	rvey	Clean Bay			
Year	ltem	No.Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)		20,450	20	4,090	

1996	Boom (ft)		20,450	20	4,090				
2000	Boom (ft)		20,450	33	6,749	2,659			
1996	Skimmers (b/d)	2	19,743	20	3,949				
2000	Skimmers (b/d)	4	5,430	33	1,792	-2,157			
1996	Storage (b)*	2	760	20	152				
2000	Storage (b)**	3.96	960	33	317	165			
	*reduced by 3 Fast tanks for 171 b to be consisten with 2000 survey.								

		OIL SPILL	RESPONSE ORGA	NIZATIONS	
Nama	Olean Oceatel W	-4			
Name	Clean Coastal Wa	aters, Inc.			
Address	190 South Pico A	venue			
State		Zin	00002 6247		
Sidle	CA	Ζιμ	90002-0247		
Phone	562-132-1115	Fav	562-437-1510		
Other	ccwraynott@aol.c	om	502-457-1510		
Contact	Ray Nottingham	President		E E	Previous Survey 1996
Contact	Ray Nottingham,	Tresident		<u> </u>	
Members	Alaska Tanker		Sea River Maritime	ġ.	
	Polar Tankers			-	
<u></u>					1
Comments	S				
Visited offic	ce / warehouse on	7 August 20	000. An extensive ir	ventorv is stored i	n various locations in
the LA / L	ong Beach area. E	Equipment i	s tracked / maintaine	ed using computer	-based system and
inspected	equipment appear	s in excelle	nt condition. With C	lean Bay and Clea	n Seas coops. they
have deve	eloped pre-approve	ed list of cas	scadeable equipmen	t for members out	side their area.
Board appr	roval is needed for	non-memb	ers. The list below r	epresents the actu	al list estimated that
could be r	released without ie	opardizina e	existing client agreer	ments. The Coast	Guard, State of CA.
and the B	oard would be noti	fied for con	curence on all transf	ers out of the area	
6 people a	are available as we	II. Material	can be expected to a	arrive in PWS with	in 36 to 48 hours.
o people e		. material			
Equipmen	t				
Boom		Feet	Characteristics		
	Ocean	7.950	>42"		
	Nearshore	21.052	18-42"		
	Harbor/river	,	<18"		
	Fire boom				
		29.002	Total		
Boom	Clean Coastal W.	14.501	50	% estimate of av	ailability for PWS.
		,			
Skimmers	d-rated b/d	No.	Total b/d	Туре	
	9,907	1	9,907	OSRV Clean Wat	ter 1
	3.109	1	3.109	Desmi Terminato	r (VOSS)
	1.354	2	2.708	GT-185 (VOSS)	
	1,354	2	2,708	GT-185	
	,	6	18,432	Total	
Skimmers	Clean Coastal W.	5	14,746	80	% available for PWS.
			, -		
On-water	Storage	No.	Capacity (b)	Total (b)	Comment
	Barges				
Blad	der, Small Barge	3	28	84	Dracone Floating Bag
		2	28	56	Kepner Floating Stor. Bag
		5		140	
Storage	Clean Coastal W.	5		140	100 % available
Ŭ					
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment
S	econdary (barges)	0		0	
	Total:	0		0	100 % available
Prima	ry (bladders >94b)				

Total:	0	0	100	% available
Primary (bladders <94b)	5	140		
Total:	5	140	100	% available
Vessels				
Total:	0	0	100	% available
	5	140		
Storage Clean Coastal W.	5	140	100	% available

Comparison to Previous Survey Clean Coastal W.

Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)		26,102	40	10,441	
2000	Boom (ft)		29,002	50	14,501	4,060
1996	Skimmers (b/day)	4	6,234	40	2,494	
2000	Skimmers (b/day)	5	14,746	80	11,796	9,303
1996	Storage (b)	2	143	40	57	
2000	Storage (b)	5	140	100	140	83
		•				

		OIL SPILL	RESPONSE ORGA	NIZATIONS	
Nama	Clean Pasifia				
Address	2401 Fourth Avo	200			
City	Soattlo	liue			
State	WA	Zin	98121		
Oldic		Σip	50121		
Phone	206-340-2772	Fax	206-340-2771		
Other					
Contact	Jim Reidel, Gene	eral Manage	er		Previous Survey 1996
				•	
Members	Polar Tankers		Tesoro		
Commonte					
Visited offic	on 23 June 2000	N: visited Ri	chmond CA Indene	ndent Contractor	Network equipment
storage si	te on 9 August Th	nev maintai	n a large inventory o	f pollution respon	se equipment staged at
various lo	cations in CA OR	and WA F	auipment is trained	/ maintained in ac	cordance with National
Response	Corp's, computer	-based prev	entive maintenance	program. Inspec	ted equipment appears in
good cond	dition. All equipme	ent would be	e available for PWS	as equipment ren	noved from West Coast
would be	backfilled from NR	C depots or	n East and Gulf Coa	sts. Transit time i	is 36 to 48 hours for
air transpo	ortable equipment	and 10-12 (days for vessels and	barges. NOTE: (Only Clean Pacific and
their West	Coast Independe	nt Contracto	or Network resource	s are included in t	the summary below.
Equipment	t				
Boom		Feet	Characteristics		
	Ocean	9,000	>42"		
	Nearshore	16,000	18-42"		
	Harbor/river		<18"		
	Fire boom				
		25,000	Total		
Boom	Clean Pacific	25,000	100	% estimate of a	vailability for PWS.
Skimmors	d rated b/d	No	Total b/d	Tupo	
SkillillerS	6 875	2	13 750	VTU Petro	
	3 154	<u>د</u> 1	3 15/		
	5 465	3	16 395	Cascade	
	24,000	1	24,000	Belt/Weir Marco	X
	1.954	. 1	1,954	Drum Skimmer	
	4,114	2	8,228	Drum Skimmer	
	12,379	1	12,379	OSRV Columbia	
<u> </u>	•	11	79,860	Total	
Skimmers	Clean Pacific	11	79,860	100	% available for PWS.
······································					
On-water S	Storage	No.	Capacity (b)	Total (b)	Comment
	Barges	1	52,878	52,878	OSRB Sacramento
Blade	der, Small Barge	10	100	1,000	Canflex Bladder
		2	238	476	Portable barge
	Vessels	1	600	600	OSRV Columbia
		14		54,954	

Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	
S	econdary (barges)	1		52,878		
	Total:	1		52,878	100	% available
Prima	ry (bladders >94b)	12		1,476		
	Total:	12		1,476	100	% available
Prima	ry (bladders <94b)					
	Total:	0		0	100	% available
	Vessels	1		600		
	Total:	1		600	100	% available
		14		54,954		
Storage	Clean Pacific	14		54,954	100	% available
Comparis	on to Previous Su	irvey	Clean Pacific			
Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)*		27,100	75	20,325	
2000	Boom (ft)		25,000	100	25,000	4,675
1996	Skimmers (b/d)**	8	5,500	75	4,125	
2000	Skimmers (b/d)	11	79,860	100	79,860	75,735
1996	Storage (b)	42	6,664	75	4,998	
2000	Storage (b)	14	54,954	100	54,954	49,956
	*includes 23,100 ft out	side of NW.				
	**aanaaitiaa nat indiaa	tod for 0 of 10	akimmara			

Name	Clean Rivers Cooperative						
Address	200 S.W. Market	Street, #19	0				
City	Portland						
State	OR	Zip	97201				
Phone	503-220-2040	Fax	503-295-3660				
Other	way@pdxmex.con	n					
Contact	Brent Way, Mana	ger		Previous Survey None			
		-		* -			
/lembers	Polar Tankers						
	Taaara						

Comments

Visited on 19 June 2000. Clean Rivers is allowed to release some equipment to other regions while still meeting WA, OR and Federal requirements for their members. The list below shows equipment available for cascading. The Coop uses a scheduled maintenance program and inspected equipment appears in good condition. Equipment is staged at several locations on the Columbia River and would be pulled as needed, and transported by road or air. Several airports capable of handling large aircraft are within 150 miles. For a member, equipment release needs concurrence of the Board of Directors; for non-members the USCG also has to approve. For the quantities indicated, USCG and State approval is not needed as "resident" capabilities are maintained, although they would be notified. Time to transfer material by air is approximatly 36 to 48 hours.

Equipment

Boom		Feet	Characteristics	
	Ocean		>42"	
	Nearshore	50,300	18-42"	
	Harbor/river	5,000	<18"	
	Fire boom			
		55,300	Total	
Boom	Clean Rivers	19,908	36	% estimate of availability for PWS.

Skimmers	d-rated b/d	No.	Total b/d	Туре		
	4,457	3	13,371	Countervac 3315	5	
	3,720	4	14,880	34ft FRB with Lo	ri	
	2,476	6	14,856	Lori Brush		
	2,057	1	2,057	Phoenix		
	3,017	2	6,034	Terminator		
	2,057	12	24,684	3" pump w/ skim	mer head and hose	
	1,800	2	3,600	A.P. Devm Skim	mer	
	457	7	3,199	2" pump w/ skimmer head and hose		
		37	82,681	Total		
Skimmers	Clean Rivers	24	53,743	65	% available for PWS.	

On-water Storage	No.	Capacity (b)	Total (b)	Comment	
Barg	ges				
Bladder, Small	Barge 2	60	120		
	11	100	1,100	32 ft aluminu	m barge
	13		1,220		
Storage Clean I	Rivers 13		1,220	100	% available

Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	
S	econdary (barges)	0		0		
	Total:	0		0	100	% available
Prima	ry (bladders >94b)	13		1,220		1
	Total:	13		1,220	100	% available
Prima	ry (bladders <94b)					1
	Total:	0		0	100	% available
	Vessels					
	Total:	0		0	100	% available
		13		1,220		
Storage	Clean Rivers	13		1,220	100	% available
Comparise	on to Previous Su	rvey	Clean Rivers			
Year	ltem	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
None	Boom (ft)				0	
2000	Boom (ft)		55,300	36	19,908	19,908
None	Skimmers (b/d)				0	
2000	Skimmers (b/d)	24	53,743	65	34,933	34,933
None	Storage (b)				0	
2000	Storage (b)	13	1,220	100	1,220	1,220

*no values listed in 1996.

Name Clean Seas Address 1180 Eugenia Place, Suite 204 City Carpinteria State CA Zip 93013 Phone 805-684-3838 Fax 805-684-2650 Other dwaldron@cleanseas.com Contact Darryle Waldron, General Manager Previous Survey 1996 Members Sea River Maritime Tesoro Image: Contact Contact Other dwaldron@cleanseas.com Comments Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Ocean 7,730 <th></th> <th></th> <th>OIL SPILL</th> <th>RESPONSE ORGA</th> <th>NIZATIONS</th> <th></th> <th></th>			OIL SPILL	RESPONSE ORGA	NIZATIONS		
Name Creating Jeas Address 1180 Eugenia Place, Suite 204 City Carpinteria State CA Zip 93013 Phone 805-684-3838 Fax 805-684-2650 Other dwaldron@cleanseas.com Contact Darryle Waldron, General Manager Previous Survey 1996 Members Sea River Maritime Tesoro	Namo	Clean See					
Audress Inde Eugenia City Carpinteria State CA Zip 93013 Phone 805-684-3838 Phone 805-684-3838 Contact Darryle Members Sea River Maritime Tesoro Image: Comments Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-arear response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Boom Clean Seas 24,230 Noto 16,40 Type 1,300 2,3800 Acme 51T 5,1400 2,000 <td>Name</td> <td>Clean Seas</td> <td>non Suite (</td> <td>004</td> <td></td> <td></td> <td></td>	Name	Clean Seas	non Suite (004			
Bite CA Zip 93013 Phone 805-684-3838 Fax 805-684-2650 Other dwaldron@cleanseas.com Contact Darryle Waldron, General Manager Previous Survey 1996 Members Sea River Maritime Tesoro Previous Survey 1996 Members Sea River Maritime Tesoro Previous Survey 1996 Comments Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area reprosense. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Ceean Qcean 7.73 V42.230 Total Boom Clean Seas 24.230 Total Boom Clean Seas 24.230 Total Boom Clean Seas 24.230 Total Iboon 1.0000 GT-185 wout power packs <td>Address</td> <td>Corpintorio</td> <td>ace, Suite 2</td> <td>:04</td> <td></td> <td></td> <td></td>	Address	Corpintorio	ace, Suite 2	:04			
Bate CA 2.0 30013 Phone 805-684-3838 Fax 805-684-2650	State	CA	Zin	02012			
Phone 805-684-3838 Fax 805-684-2650 Other dwaldron@cleanseas.com	Siale	CA	ΖIÞ	93013			
Other dwaldron@cleanseas.com Contact Darryle Waldron, General Manager Previous Survey 1996 Members Sea River Maritime Tesoro Previous Survey 1996 Comments Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outled their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Nearshore 16,500 Variational equipment 24,230 Boom Clean Seas Variational difficult 18.40 Time to transport material by air is approximately 36 to 48 hours. Equipment 24,230 Boom Clean Seas Quecan 7,730 >42" Nearshore 18.40 1,900 2 24,230 100 % estimate of availabilit	Phone	805-684-3838	Fax	805-684-2650			
Contact Darryle Waldron, General Manager Previous Survey 1996 Members Sea River Maritime Tesoro	Other	dwaldron@cleans		000-004-2000			
Members Sea River Maritime	Contact	Darryle Waldron	General N	lanager	l F	Previous Survey	1996
Members Sea River Maritime Tesoro	Contact	Darryle Waldron,		lanagei	<u> </u>		1330
Boom Feet Characteristics Zegupment Additional equipment available to members outside their respective areas. Inspected equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Feet Characteristics 0 cean 7,730 >42" Harbor/river <18-42"	Members	Sea River Maritin	ne				
Comments Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Ocean 7.730 >42" Nearshore 16,500 18-42" Harbor/river <18"	Weinberg	Tesoro					
Comments Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics 0ccean 7.730 >42" Nearshore 16,500 18-42" Harbor/river <18"	ļ	103010					
Visited office / warehouse on 8 August 2000. An extensive inventory is maintained in the Ventura and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Ocean 7.730 >42" Harbor/river <18"	Comment	S					
and Santa Barbara area, and is tracked using a computer-based system. Inspected equipment appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Ocean 7,730 >42" Nearshore 16,500 18:-42" Harbor/river <18"	Visited offi	ce / warehouse on	8 August 2	000. An extensive ir	ventory is maintai	ned in the Vent	ura
appears in excellent condition. With Clean Bay and Clean Coastal Waters, they have a pre-approved list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Ocean 7,730 Nearshore 16,500 Harbor/river <18*42"	and Santa	a Barbara area, an	d is tracked	using a computer-b	ased system. Insp	pected equipme	nt
list of equipment available to members outside their respective areas. This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Ocean 7.730 >42" Harbor/river 16,500 18-42" Harbor/river <18"	appears i	n excellent conditio	on. With Cle	an Bay and Clean C	oastal Waters, the	y have a pre-ap	proved
This includes transfer to PWS. The Board needs to approve release to non-members. Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Ocean 7,730 >42" Harbor/river <16,500	list of equ	ipment available to	members	outside their respect	ive areas.	· · ·	•
Additional equipment may be available with consent of the Board, USCG and State of CA. Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Ocean 7,730 >42" Nearshore 16,500 18-42" Harbor/river <18"	This inclu	des transfer to PW	S. The Boa	ard needs to approve	e release to non-m	embers.	
Clean Seas can provide 6 persons for out-of-area response. Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Ocean 7,730 >42" Nearshore 16,500 18-42" Harbor/river <18"	Additional	equipment may be	available w	rith consent of the Bo	pard, USCG and S	tate of CA.	
Time to transport material by air is approximately 36 to 48 hours. Equipment Boom Feet Characteristics Nearshore 16,500 18-42" 1 Harbor/river <18"	Clean Sea	s can provide 6 pe	rsons for ou	it-of-area response.	,		
Equipment Boom Feet Characteristics Nearshore 16,500 18-42" Harbor/river <18"	Time to tra	nsport material by	air is appro	ximately 36 to 48 ho	urs.		
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Boom Feet Characteristics Ocean 7,730 >42" Nearshore 16,500 18-42" Harbor/river <18"	Equipmen	t					
Ocean 7,730 >42" Nearshore 16,500 18-42" Harbor/river <18"	Boom		Feet	Characteristics			
Nearshore 16,50 18.42" Harbor/river <18"		Ocean	7,730	>42"			
Harbor/river Kill Fire boom 24,230 Total Boom Clean Seas 24,230 100 Skimmers d-rated b/d No. Total b/d Type 1,900 2 3,800 Acme 51T 5,140 5,140 2 10,280 ODI 1,350 1,350 4 5,400 GT-185 w/out power packs 3,000 3,000 1 3,000 GT-260 w/out power packs 4,000 2,500 4 10,000 Lori 2 w/out power packs 4,000 3,000 1 3,000 Roto 30 w/out power packs 4,000 3,000 1 3,000 Roto 30 w/out power packs 4,000 14 35,480 Total 5,000 14,000 Skimmers Clean Seas 14 35,480 100 % available for PWS. Dn-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Dracone		Nearshore	16 500	18-42"			
Fire boom 24,230 Total Boom Clean Seas 24,230 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 1,900 2 3,800 Acme 51T 5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 3,000 1 3,000 Roto 30 w/out power pack 14 35,480 Total Skimmers Clean Seas 14 35,480 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Pacho Bladder, Small Barge 6 100 600 Pracone Floating Bag 2 120 240 <td></td> <td>Harbor/river</td> <td>10,000</td> <td><18"</td> <td></td> <td></td> <td></td>		Harbor/river	10,000	<18"			
24,230 Total Boom Clean Seas 24,230 Total Boom Clean Seas 24,230 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 1,900 2 3,800 Acme 51T 5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 5kimmers Clean Seas 14 35,480 Total Skimmers Clean Seas 1 7,840 7,840 Bladder, Small Barge 1 7,840 7,840 Rigid Dracone 1		Fire boom		10			
Boom Clean Seas 24,230 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 1,900 2 3,800 Acme 51T 5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 14 35,480 Total Skimmers Clean Seas 14 35,480 0n-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Pracone Bladder, Small Barge 6 100 600 Rigid Dracone 2 120 240 Kepner Floating Stor. Bag			24 230	Total			
Skimmers d-rated b/d No. Total b/d Type 1,900 2 3,800 Acme 51T 5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power packs Skimmers Clean Seas 14 35,480 Total Øn-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Draco	Boom	Clean Seas	24 230	100	% estimate of av	ailability for PW	S
Skimmers d-rated b/d No. Total b/d Type 1,900 2 3,800 Acme 51T 5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 5kimmers Clean Seas 14 35,480 Total Skimmers Clean Seas 1 7,840 7,840 Barges 1 7,840 7,840 Pracone Bladder, Small Barge 6 100 600 Rigid Dracone 1 140 140 140 Dracone Float	Doom		21,200	100			0.
1,900 2 3,800 Acme 51T 5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 14 35,480 Total Stimmers Skimmers Clean Seas 14 35,480 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Dracone 1 140 140 Dracone Floating Bag 2 120 240 Kepner Floating Stor. Bag	Skimmers	d-rated b/d	No.	Total b/d	Tvpe		
5,140 2 10,280 ODI 1,350 4 5,400 GT-185 w/out power packs 3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 2,500 4 10,000 Lori 2 w/out power packs 3,000 1 3,000 Roto 30 w/out power pack 3,000 1 3,000 Roto 30 w/out power pack 14 35,480 Total Skimmers Clean Seas 14 35,480 0n-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Dracone Bladder, Small Barge 6 100 600 Rigid Dracone 1 140 140 Dracone Floating Bag Kepner Floating Stor. Bag 2 120 240 Kepner Floating Stor. Bag 12 8,876 100 % available % availabl		1.900	2	3.800	Acme 51T		
Image: Second		5 140	2	10,280	ODI		
3,000 1 3,000 GT-260 w/out power pack 2,500 4 10,000 Lori 2 w/out power pack 3,000 1 3,000 Roto 30 w/out power pack 3,000 1 3,000 Roto 30 w/out power pack 3,000 1 3,000 Roto 30 w/out power pack 14 35,480 Total Skimmers Clean Seas 14 35,480 Total On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Dracone Bladder, Small Barge 6 100 600 Rigid Dracone 1 140 140 Dracone Floating Bag 2 120 240 Kepner Floating Stor. Bag 2 2 28 56 Kepner Floating Stor. Bag 12 8,876 100 % available		1,350	4	5,400	GT-185 w/out po	wer packs	
2,500 4 10,000 Lot inder point path 3,000 1 3,000 Roto 30 w/out power packs 14 35,480 Total Skimmers Clean Seas 14 35,480 Total On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Dracone Bladder, Small Barge 6 100 600 Rigid Dracone 1 140 140 140 Dracone Floating Bag 2 120 240 Kepner Floating Stor. Bag 2 2 28 56 Kepner Floating Stor. Bag 12 8,876 100 % available		3,000	1	3,000	GT-260 w/out po	wer pack	
3,000 1 3,000 Roto 30 w/out power pack 14 35,480 Total Skimmers Clean Seas 14 35,480 Total On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Rigid Dracone Bladder, Small Barge 6 100 600 Dracone Floating Bag 2 120 240 Kepner Floating Stor. Bag 12 8,876 100 % available		2.500	4	10.000	Lori 2 w/out nowe	er packs	
14 35,480 Total Skimmers Clean Seas 14 35,480 Total On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 8 7,840 7,840 Bladder, Small Barge 6 100 600 Rigid Dracone Dracone Floating Bag 1 140 140 140 Dracone Floating Stor. Bag 2 28 56 Storage Clean Seas 12 8 876 100 % available		3,000	1	3,000	Roto 30 w/out po	wer pack	
Skimmers Clean Seas 14 35,480 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Bladder, Small Barge 6 100 600 Image: 1 140 140 Image: 2 120 240 Kepner Floating Stor. Bag 2 28 56 Image: 12 8,876 100	L	0,000	14	35,480	Total		
On-water Storage No. Capacity (b) Total (b) Comment Barges 1 7,840 7,840 Bladder, Small Barge 6 100 600 Image: Storage 1 140 140 Image: Storage 2 120 240 Image: Storage 12 8,876 100 Image: Storage Clean Seas 12 8,876 100	Skimmers	Clean Seas	14	35,480	100	% available fo	r PWS.
On-water StorageNo.Capacity (b)Total (b)CommentBarges17,8407,840Bladder, Small Barge6100600Rigid Dracone1140140Dracone Floating Bag2120240Kepner Floating Stor. Bag22856Kepner Floating Stor. Bag128,876100				00,100			
Barges 1 7,840 7,840 Bladder, Small Barge 6 100 600 Rigid Dracone 1 140 140 Dracone Floating Bag 2 120 240 Kepner Floating Stor. Bag 12 8,876	On-water	Storage	No.	Capacity (b)	Total (b)	Comment	
Bladder, Small Barge 6 100 600 Rigid Dracone 1 140 140 Dracone Floating Bag 2 120 240 Kepner Floating Stor. Bag 2 28 56 Kepner Floating Stor. Bag 12 8,876 100 % available		Barges	1	7.840	7.840		
1140140Dracone Floating Bag2120240Kepner Floating Stor. Bag22856Kepner Floating Stor. Bag128,876100	Blad	der. Small Barge	6	100	600	Rigid Dracone	
2 120 240 Kepner Floating Stor. Bag 2 28 56 Kepner Floating Stor. Bag 12 8,876	2.00		1	140	140	Dracone Floati	ng Bag
2 28 56 Kepner Floating Stor. Bag 12 8,876 Storage Clean Seas 12 8,876			2	120	240	Kepner Floatin	a Stor Bag
12 8,876 Storage Clean Seas 12 8,876			2	28	56	Kepner Floatin	a Stor Bag
Storage Clean Seas 12 8 876 100 % available	L	1	12		8 876		g otor: Dug
	Storage	Clean Seas	12		8 876	100	% available
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment		
-----------	------------------------	----------------	---------------------------	------------------	------------	-------------	
S	econdary (barges)	1		7,840			
	Total:	1		7,840	100	% available	
Prima	ry (bladders >94b)	9		980			
	Total:	9		980	100	% available	
Primar	ry (bladders <94b)	2		56			
	Total:	2		56	100	% available	
	Vessels						
	Total:	0		0	100	% available	
		12		8,876			
Storage	Clean Seas	12		8,876	100	% available	
Compariso	on to Previous Su	irvey	Clean Seas				
Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss	
1996	Boom (ft)		29,230	25	7,308		
2000	Boom (ft)		24,230	100	24,230	16,923	
1996	Skimmers (b/d)	4	27,770	25	6,943		
2000	Skimmers (b/d)	14	35,480	100	35,480	28,538	
1996	Storage (b)*	3	1,036	25	259		
2000	Storage (b)	12	8,876	100	8,876	8,617	
	*6 Fastanks from '96 s	ubtacted to be	consistent with 2000 surv	/ey.			

		OIL SPILL	. RESPONSE ORG	ANIZATIONS
Name	Clean Sound Co	onerative	Inc	
Address	1105 13th Street	Suite 100		
City	Everett			
State	WA	Zin	98201-1679	
Oldic		210		
Phone	425-783-0908	Fax	425-783-0939	
Other		i un		
Contact	Roland Miller			Previous Survey 1996
Members	Alaska Tanker		Tesoro	
	Polar Tankers			
Comments	i			
Visited offic	e 23 June 2000.	An extensiv	e inventory is locate	ed throughout Puget Sound and the Strait
of Juan de	Fuca. Skimming	equipment	is mostly integrated	d within the spill response vessel program.
Equipmen	t is tracked / main	tained using	g a computer-based	system. Inspected equipment appears in
excellent (condition. A meml	ber compar	y can obtain 25% o	f equipment for use outside-of-area without
Board app	oroval. With appro	val, the Boa	ard can release up t	to 50% and approve release to non-members.
5-6 persons	s could be provide	d to assist a	an out-of-area respo	onse. Time to arrive by air in PWS is
approxima	telv 36 - 48 hours	. bv sea it is	s approximately 10	davs.
	, , , , , , , , , , , , , , , , , , ,	, .,		
Equipment	t			
Boom		Feet	Characteristics	
	Ocean		>42"	
	Nearshore	78,200	18-42"	
	Harbor/river	,	<18"	
	Fire boom			
L		78,200	Total	
Boom	Clean Sound	39,100	50	% estimate of availability for PWS.
L		,		
Skimmers	d-rated b/d	No.	Total b/d	Туре
	21,540	1	21,540	Marco Belt 4ft OSRV
	12,000	1	12,000	JBF 6001 OSRV
ŀ	10,764	3	32,292	Marco Belt 2ft OSRV
ŀ	6,000	3	18,000	JBF 5001 OSRV
F	4,896	1	4,896	Lori LBC-4 OSRV
ŀ	3,662	1	3,662	Lori LBC-3
-	3,588	4	14.352	Marco Belt 1ft OSRV
-	2,914	1	2,914	Desmi 250 OSRV
	2,592	1	2,592	Lori LBC-2 OSRV
	2,057	1	2,057	Desmi 250 OSRV
, F	, -	1	,	

	754	1	754	Desmi 150	
	754	1	754	Poscon 150	
	55	2	110	Slickbar Slurp	
	48	2	96	OMI 14E	
		23	116,019	Total	
Skimmers	Clean Sound	12	58,010	50	% available for PWS.
_					
On-water S	Storage	No.	Capacity (b)	Total (b)	Comment
	Barges	1	23.000	23.000	

		1	12,000	12,000		
		1	1,960	1,960		
Blad	der, Small Barge	1	100	100	Dracone	
		3	110	330	Dracone	
		7		37,390		
Storage	Clean Sound	4		18,695	50	% available
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	
Se	econdary (barges)	3		36,960		
	Total:	2		18,480	50	% available
Primar	y (bladders >95b)	4		430		
	Total:	2		215	50	% available
Primar	y (bladders <95b)			0		
	Total:	0		0	50	% available
	Vessels					
	Total:	0		0	50	% available
		7		37,390		
Storage	Clean Sound	4		18,695	50	% available
Compariso	on to Previous Su	irvev	Clean Sound			
Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)		66,300	25	16,575	
2000	Boom (ft)		78,200	50	39,100	22,525
1996	Skimmers (b/d)	5	*	25		
2000	Skimmers (b/d)	12	58,010	50	29,005	29,005
1996	Storage (b)	1	460	25	115	
2000	Storage (b)	4	37,390	50	18,695	18,580
	*skimmer capacity not	listed in 1996.				

		OIL SPILL	RESPONSE ORGA	NIZATIONS	
Namo	East Asia Pospo	nco Limito			
Addrose	2 Jolon Somular	nse Limite	u (EARL)		
Address	2 Jaian Samulan Singanoro				
Country	Singapore	Code	620120		
Country	Siligapore	Coue	029120		
Phone	011-65-266-1566	Fax	011-65-266-2312		
Other	www.earl.com.sq				
Contact	Ms. Alicia Ching		admin@earl.com.se	a	Previous Survey 1996
	J		0	5	
Members	Alaska Tanker				
Comment	S				
Equipment	list received Augu	st 2000. Eo	quipment is package	d for immediate t	ransport.
A C-130 is	on 24-hour standb	y and can o	carry 15 ton payload	. Including stops,	flight to Valdez is
estimated	l at 39 hours. Clier	nt needs to	sign formal agreeme	ent before resourc	ces will be released.
EARL has	agreement with OS	SRL, and pr	imarily covers East	Asia area.	
Equipmen	t				
Boom		Feet	Characteristics	Т	
	Ocean	6,200	>42"	10x200m section	nsRo-Boom 1500 (50")
	Ocean	2,976	>42"	16x60m Troil Bo	oom Concave 1500 HD (60")
	Nearshore	2,325	18-42"	3x250m Hi Sprir	nt 950 Rapid (38")
	Nearshore	6,200	18-42"	40x50m Sea Cu	rtain foam filled (41")
	Nearshore	4,960	18-42"	8x200m SeaSer	ntinal Inshore (29")
	Nearshore	4,960	18-42"	96 SeaSentinel	inflatable 10,20m lengths
	Harbor/river	2,170	<18"	Shoreguardian E	Beach Sealing 10,20,25 m
	Fire boom	00 704	T - 4 - 1		
Deam		29,791	l otal	0/ active at a of a	
Boom	EARL	29,791	100	% estimate of a	Vallability for PVVS.
Skimmoro	d rotod h/d	No	Total b/d	Tuno	
Skilliners	<i>d-rated b/d</i>	<u> </u>	0,700	I ype Do Skim with Do	Poom(185 h/hr)
	4050	2	50,000	Marfley sweepin	(485 b/m)
	25000	5	15 750	Pharos Marine (T 185 weir bopper (315 b/br)
	3500	2	7 000	Vikoma Seaskin	amer 50 disc (350 b/br)
	1800	2	3,600	Vikoma Seawolf	MK2 disc (180 b/hr)
	780	4	3 120	Vikoma T18 dise	(78 b/hr)
	780	8	6 240	Vikoma T12 disc	c (78 b/hr)
	4210	1	4 210	Vikoma SeaDev	il viscous (421 b/hr)
	3570	1	3,570	ORS AB WP 1-?	30 heavy oil (137 b/hr)
	650	2	1,300	Oil Mop Unit (65	b/hr)
	403	6	2,419	Delta Skimmer (12ton/hr)
L		35	106.909	Total	
Skimmers	EARL	35	106.909	100	% available for PWS.
On-water	Storage	No.	Capacity (b)	Total (b)	Comment
	Barges				
	Ŭ				
Blad	der Small Barge	1	3 500	3 500	Unitor Oil Bay (500 m3)

		2	1,400	2,800	Unitor (200 m3	3)
		3	700	2,100	Unitor (100 m	3)
		12	12	143	Dunlop Pillow	(500 gal)
		18		8,543		
Storage	EARL	18		8,543	100	% available
04a wa wa D		N/a		Tatal (h)	<u>Common ant</u>	
Storage B		<u>INO.</u>	Capacity (b)	Total (b)	Comment	
50	econdary (barges)	0		0		
	l otal:	0		0	100	% available
Primar	y (bladders >94b)	6		8,400		_
	Total:	6		8,400	100	% available
Primar	y (bladders <94b)	12		143		
	Total:	12		143	100	% available
	Vessels					
	Total:	0		0	100	% available
		18		8,543		
Storage	EARL	18		8,543	100	% available
. .			5451			
Compariso	on to Previous Su	rvey	EARL			
Year	Item	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)		32,857	50	16,429	
2000	Boom (ft)		29,791	100	29,791	13,363
1996	Skimmers (b/d)	23	51,980	50	25,990	
2000	Skimmers (b/d)	35	106,909	100	106,909	80,919
1996	Storage (b)	12	8,849	50	4,425	
2000	Storage (b)*	18	8,543	100	8,543	4,118

 * Ro Tank system is not included in 2000 survey (63 b capacity).

OIL SPILL RESPONSE ORGANIZATIONS										
Name Foss Environmental Services										
Address	Address 7440 West Marginal Way South									
City	Soattlo	nai way Sc	Juli							
State	WA	Zin	98108							
Oldic	IIA	Ζip	50100							
Phone	206-768-1458	Fax								
Other	Emergency Line:	1-800-337-7	7455							
Contact	Paul Gallagher	Stephanie	Barton	Previous Survey 1996						
001110101	i dai edilagilei									
Members	Polar Tankers									
	Tesoro									
L										
Comments	S									
Foss Envir	onmental maintain	s equipmen	t in various locations	s throughout the West Coast, including						
Seattla, T	acoma, Portland, S	San Francis	co, San Diego, Bellir	ngham, Anacortes, Neah Bay, Port						
Angeles,	and others. Some	equipment	is stored by contract	tors.						
Because o	f agreements in pla	ace, 100% c	of equipment could b	e transported to PWS if needed.						
Equipment	is palletized and r	eady for air	transport, estimated	at 36 to 48 hours to get to Valdez.						
Transport of	of barges and vess	els by sea v	would take and estim	nated 10 days.						
	0	,		,						
Equipmen	t									
Boom		Feet	Characteristics							
	Ocean		>42"							
	Nearshore	1,000	18-42"	Seattle						
	Nearshore	12,500	18-42"	Fence, Slikbar 24", Alameda						
	Harbor/river	39,100	<18"	In Puget Sound area.						
	Harbor/river	31,050	<18"	In Portland area						
	Harbor/river	28,000	<18"	In San Francisco area						
	Harbor/river	6,000	<18"	San Diego						
	Fire boom			-						
		117,650	Total							
Boom	Foss Environ.	94,120	80	% estimate of availability for PWS.						
Skimmers	d-rated b/d	No.	Total b/d	Туре						
	3679	2	7,358	Belt - vessel, Marco / 1C, Seattle						
	2400	1	2,400	Brush, Lamor/OPC2, Seattle						
	981	3	2,943	Disk, Morris/MI-30, Seattle						
	96	2	192	Disk, Omni/MKII-4, Seattle						
	311	1	311	Rop mop, Omni/MKII-9C, Seattle						
	1200	1	1,200	Vacuum, Marco/VS50, Seattle						
	411	5	2,055	Vacuum, Vac-U-Max, Seattle						
	3786	2	7,572	Weir, Desmi 250, Port Angeles						
	514	2	1,028	Weir, Douglas 2" Pt. Townsend& Seattle						
	514	2	1,028	Weir, Douglas 3" Oelo, Seattle						
	3679	2	7,358	Belt - vessel, Marco / 1C, Portland, Astoria						
	2400	1	2,400	Brush, Lamor/OPC2, Aberdeen						
	3600	2	7,200	Brush-weir, AquaGuard RBS-10, Portld, Ast.						
	2280	2	4,560	Disc, Vikoma/12K, Portland						
	48	2	96	Rope mop, Omni/MKI-4E, Portland						
	288	1	288	Rope mop, CSI II-A3, Portland						

	96	1	96	Rope mop, Omni/MKII-4VE, Portland		
	48	1	48	Rope mop, Abaso	co-14G, Astoria	
	411	2	822	Vacuum, Vac-U-Max, Portland		
	719	5	3,595	Weir, Douglas Sk	imPak, Portland	
	3679	1	3,679	Belt - vessel, Mar	co / 1C, Alameda	
	3223	1	3,223	Belt - vessel, JBF	Dip 3001, Alameda	
	2280	1	2,280	Disc, Vikoma/12K	X, Alameda	
	1056	1	1,056	Foilex, TDS-150,	Alameda	
	411	3	1,233	Vacuum, Vac-U-N	/lax, Alameda	
	719	1	719	Weir, 2" OLEO, A	lameda	
	719	4	2,876	Weir, 2" Skimpak	, Alameda	
	1458	3	4,374	Weir, 3" Skimpak	, Alameda	
	274	1	274	Disc, Vikoma Keb	oab 600, San Diego	
	981	1	981	Disc, Morris MI-30), San Diego	
	96	1	96	Rope mop, Omi N	/IKII-4, San Diego	
	1458	2	2,916	Weir, Skimpak 18	000, San Diego	
	719	1	719	Weir, Skimpak 42	:00, San Diego	
		61	76,976	Total		
Skimmers	Foss Environ.	49	61,581	80	% available for PWS.	

On-water Storage	No.	Capacity (b)	Total (b)	Comment
Barges	1	14,999	14,999	BMC-10, Puget Sound
	2	11,900	23,800	Foss185, Puget Sound
	1	26,100	26,100	Foss248, Puget Sound
	1	45,500	45,500	Foss286, Puget Sound
	1	19,000	19,000	BMC-3, Portland
	1	5,580	5,580	BMC-4 Portland
	1	10,000	10,000	BMC-7, Portland
	1	11,900	11,900	Foss 185-P1, Portland
	1	5,000	5,000	Trident, Alameda
	1	25,000	25,000	Dusk, Richmond
	1	21,100	21,100	Oiler, Ricmond
	1	17,254	17,254	San Pedro, Richmond
	1	21,403	21,403	Foss 111, Richmond
Bladder, Small Barge	1	476	476	CanflexDLE, Port Angeles
	12	24	288	CanflexDLE-4, Puget Snd.
	9	24	216	CanflexDLE-4, Portland
	3	24	72	CanflexDLE-4, Alameda
	39		247,688	
Storage Foss Environ.	31.2		198,151	80 % available

Storage Breakdown		No.	Capacity (b)	Total (b)	Comment	
Secondary (barges)	14		246,636		
Tota	al:	11		197,309	80	% available
Primary (bladder	s >94b)	1		476		
Total:		1		381	80	% available
Primary (bladders <94b)		24		576		
Tota	al:	19		461	80	% available
N	/essels					
Tota	al:	0		0	80	% available
		39		247,688		
Storage Foss En	viron.	31		198,151	80	% available

mpans	on to Flevious Su	ivey	FUSS EIIVIIUII.			
Year	ltem	No. Avail.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)		103,000	100	103,000	
2000	Boom (ft)		117,650	80	94,120	-8,880
1996	Skimmers (b/d)*	51	4,699	100	4,699	
2000	Skimmers (b/d)	49	61,581	80	49,265	44,566
1996	Storage (b)	28	**	100		
2000	Storage (b)	31	247,688	80	198,151	198,151

		OIL SPILL	RESPONSE ORGA	NIZATIONS		
Name	IT Corporation					
Address						
City	Findlay					
State	OH	Zip	45840			
Cluto	•	<u> </u>				
Phone	419-425-6097	Fax	419-425-6373			
Other	rweber@theitgrou	p.com; 419	9-425-6100			
Contact	Rob Weber / Joh	n Sifort			Previous Survey	/ 1996
.				•		
Members	Chevron					
Comments	i					
IT has stora	age facilities throug	phout the co	ontinent U.S. contain	ing boom (200 to	a maximum of	
almost 600	00 ft) and skimmer	S.				
Locations a	re Findlay OH, St.	Paul MN, I	Pittsburg, Houston, N	New York, Windso	or NJ, Pleasanto	n CA
Covington	GA, Clemont FL,	Hopkinton I	MA, Glen Allen VA a	nd Miami FL.		
They report	that they have over	er \$100 mil	lion worth of pollution	n-response equip	ment and are ab	ole to
mobilize a	substantial work f	orce.				
An estimate	ed 80% of equipme	ent could be	e transferred and arri	ive within 72 hour	S.	
Equipment						
Boom		Feet	Characteristics			
	Ocean		>42"			
	Nearshore	14,500	18-42"	Various locations	3	
	Harbor/river		<18"			
	Fire boom					
		14,500	Total			
Boom	IT Corp	11,600	80	% estimate of a	vailability for PW	/S.
Skimmers	d-rated b/d	No.	Total b/d	Туре		
	50	11	550	Type not provide	ed, 50 b/day ass	umed.
		11	550	Total		
Skimmers	II Corp	9	440	80	% available fo	or PWS.
	4	N / -	O = the set of the s		0	
Un-water S	storage	INO.	Capacity (b)	i otal (b)	Comment	
	Barges	U				
-	Dicalatera	^				
	Bladders	U				
				0		
Otorrage		0		0		0/
Storage	II Corp	U		U	80	% available
Ctores - D		N/-			<u>Commente</u>	
Storage Br		INO.	Capacity (b)	i otal (b)	Comment	
Se	condary (barges)	0		0	00	0/
Dulua		0		0	80	% available
Primar	y (bladders >94b)	0		0		0/
	I otal:	0		0	80	% available
Primar	v (bladders <94b)	0		0		

Total:	0		0	80	% available
Vessels					
Total:	0		0	80	% available
	0		0		
IT Corp	0		0	80	% available
۱ to Previous Su	rvey	IT Corp			
ltem	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
Boom (ft)		4,000	100	4,000	
Boom (ft)		14,500	80	11,600	7,600
Skimmers (b/d)	7	3,566	100	3,566	
Skimmers (b/d)	9	440	80	352	-3,214
Storage (b)	6	144	100	144	
,	-	0	00	0	111
	IT Corp IT Corp IT Corp Ito Previous Su Item Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d)	VesselsTotal:000IT Corp0IT Corp0Ito Previous SurveyItemNo.Boom (ft)Boom (ft)Skimmers (b/d)7Skimmers (b/d)9Storage (b)6	Vessels O Total: 0 0 0 IT Corp 0 Ito Previous Survey IT Corp Item No. Length / Capacity Boom (ft) 4,000 Boom (ft) 14,500 Skimmers (b/d) 7 3,566 Skimmers (b/d) 9 440 Storage (b) 6 144	Vessels 0 0 Total: 0 0 0 0 0 IT Corp 0 0 Item No. Length / Capacity % est. Available Boom (ft) 4,000 100 Boom (ft) 14,500 80 Skimmers (b/d) 7 3,566 100 Skimmers (b/d) 9 440 80	Item No. Length / Capacity % est. Available PWS Avail. Boom (ft) 14,500 80 11,600 Skimmers (b/d) 7 3,566 100 3,526 Storage (b) 6 144 100 144

		OIL SPILL	RESPONSE ORGA	NIZATIONS				
Name	Marine Spill Res	oonse Corr	oration (MSRC)					
Address	455 Spring Park	Place, Suit	e 200					
City	Herndon	,						
State	VA	Zip	20170					
Phone	703-326-5611	Fax	703-326-5660					
Other do'donovan@msrc.org								
Contact Doug O'Donovan, Technical Services Manager Previous Survey 1996								
Members	Alaska Tanker		Sea River Maritime	9				
	Chevron		Tesoro					
B								
Comments	S							
Office / war	rehouse visits: 22 J	June - NW,	3 July - NE, SW 8 A	ugust; headquarte	rs: 6 July.			
MSRC has	sufficient inventor	y to enable	large equipment rele	ease to PWS. Equ	ipment is availa	able to		
members	of Marine Preserva	ation Assoc	(MPA); non-membe	ers and USCG mus	st contract indiv	ually.		
Responses	to PWS incident v	vill be in acc	cordance with applic	able law and not r	esult in invalida	ting		
customers	s response plan wi	thin an oper	rational area. The e	quipment list below	v is pre-identifie	ed by		
MSRC as	imediately availab	le for fly-aw	ay. Equipment is tra	acked using sophis	sticated mainter	nance		
program a	and appears in exc	ellent condi	tion. Equipment is s	stored ready for tra	insport and is			
available	from numerous site	es in the co	ntinental US includin	g Hawaii and the	US Virgin Island	ls.		
MSRC has	s agreements with	air transpor	t and trucking compa	anies for equipment	nt movement, s	ome of		
which was	s transported to Va	Idez for a 1	999 exercise; the es	timated time to ar	rive is 48 hours.			
Fauinmen	t							
Boom		Feet	Characteristics					
	Ocean		>42"					
	Nearshore	13,000	18-42"					
	Harbor/river	·	<18"					
	Fire boom							
		13,000	Total					
Boom	MSRC	13,000	100	% estimate of av	ailability for PW	/S.		
Skimmers	d-rated b/d	No.	Total b/d	Туре				
	3,017	4	12,068	Desmi				
	15,840	3	47,520	Stress				
	1,371	1	1,371	GT-185	1			
		8	60,959	Total				
Skimmers	MSRC	8	60,959	100	% available fo	or PWS.		
On-water	Storage	No	Capacity (b)	Total (b)	Comment]		
	Barges	,		, c.u. (b)	Commont			
	Bladders	14	500	7 000	Towable stora	ge bladder		
	2.000010		000	1,000		30 210000		
L		14		7.000	I			
Storage	MSRC	14	l	7.000	100	% available		
				.,		,		
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment			
Se	econdary (barges)	0		0				
	Total:	0		0	100	% available		

Primar	y (bladders >94b)	14		7,000		
	Total:	14		7,000	100	% available
Primary (bladders <94b)		0		0		
	Total:	0		0	100	% available
	Vessels					
	Total:	0		0	100	% available
		14		7,000		
Storage	MSRC	14 rvey	MSRC	7,000	100	% available
Storage	MSRC	14	MODO	7,000	100	% available
Storage Compariso Year	MSRC on to Previous Su Item	14 rvey No.	MSRC Length / Capacity	7,000 % est. Available	100 PWS Avail.	% available
Storage Compariso Year 1996	MSRC on to Previous Su Item Boom (ft)	14 rvey No.	MSRC Length / Capacity 300.000	7,000 % est. Available 50	100 <i>PWS Avail.</i> 150.000	% available
Storage Compariso Year 1996 2000	MSRC on to Previous Su Item Boom (ft) Boom (ft)	14 rvey No.	MSRC Length / Capacity 300,000 13.000	7,000 % est. Available 50 100	100 PWS Avail. 150,000 13,000	% available
Storage Comparise Year 1996 2000 1996	MSRC on to Previous Su Item Boom (ft) Boom (ft) Skimmers (b/d)	14 rvey <i>No.</i> 57	MSRC Length / Capacity 300,000 13,000 414,860	7,000 % est. Available 50 100 50	100 <i>PWS Avail.</i> 150,000 13,000 207,430	% available
Storage Compariso Year 1996 2000 1996 2000	MSRC on to Previous Su <i>Item</i> Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d)	14 rvey <u>No.</u> 57 8	MSRC <i>Length / Capacity</i> 300,000 13,000 414,860 60,959	7,000 % est. Available 50 100 50 100	100 <i>PWS Avail.</i> 150,000 13,000 207,430 60,959	% available Gain/Loss -137,000 -146,471
Storage Compariso <i>Year</i> 1996 2000 1996 2000 1996	MSRC on to Previous Su <i>Item</i> Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d) Storage (b)	14 rvey No. 57 8 42	MSRC Length / Capacity 300,000 13,000 414,860 60,959 59,500	7,000 % est. Available 50 100 50 100 50	100 <i>PWS Avail.</i> 150,000 13,000 207,430 60,959 29,750	% available Gain/Loss -137,000 -146,471

		OIL SPILL	RESPONSE ORG	GANIZATIONS			
Name	Oil Spill Respons	se Itd (OS	SRI)				
Address	Lower William St	treet	51(2)				
City Northam, South Hampton F01 1Qe							
Country	England						
Country	Eligialia						
Phone	011-44-23-8033-1	551	Fa	011-44-23-8033-	1972		
Other	dneilson@osrl.co	uk: website	. www.osrl.co.uk		1072		
Contact	David Neilson			F F	Previous Survey 1996		
Contact	Darra Honoon						
Members	Alaska Tanker		Sea River Maritir	me			
Comments							
All member	s can call on OSR	L services.	Equipment is load	ded on trailers and re	eady for immediate		
dispatch	Response time is	approximat	elv 72 hours and h	has been tested in pr	revious SONS drill		
			,				
Equipment	t						
Boom	-	Feet	Characteristics				
	Offshore	8.680	>42"	Roboom Ocean a	and Vikoma Ocean		
	Bav	6.820	18-42"	Roboom Bay 11	sections x 200 m		
	Inshore	29.822	<18"	Seasentinal and	Shoregardian		
	Fire boom	,					
<u> </u>		45.322	Total				
Boom	OSRL	45.322	100	% estimate of av	ailability for PWS.		
		,					
Skimmers	d-rated b/d	No.	Total b/d	Туре			
	6048	2	12,096	Vikoma Weir Boo	m System (1260 b/hr)		
-	1680	7	11,760	Vikoma Seaskimi	mer 50 (350 b/hr)		
-	403	25	10,080	Vikoma Komara '	12K disc (84 b/hr)		
-	2016	2	4,032	Roskim 60 tons/h	ir ,		
-	336	19	6,384	Vikoma Powerva	cs (70 b/hr)		
-	17	1	17	Vikoma Kebab 60	00 disc (3.5 b/hr)		
	403	2	806	OMI Mark II - 9DI	P Mop Wringer (84 b/hr)		
	58	2	115	OMI Mark II - 4D	Mop Unit (12 b/hr)		
	29	2	58	ORI Jaws 552 - N	lop Unit (6 b/hr)		
	3427	4	13,709	Trans-Vac 500D	(714 b/hr)		
	1512	6	9,072	Desmi DS 250 (3	15 b/hr)		
	48	2	96	Scavenger light (10b/hr assumed)		
	1512	2	3,024	Walosep W-2 we	ir hopper (315 b/hr)		
	1512	6	9,072	Pharos Marine G	T-185 weir hopper 315 b/hr		
	96	2	192	Termite weir skim	imer (20b/hr assumed)		
	336	2	672	Molex Vacuum U	nit (70 b/hr)		
	1507	2	3,014	Egmopol belt unit	t (314 b/hr)		
	48	1	48	Rotodrum (10b/h	r assumed)		
	1008	2	2.016	ORSAB WP-1-30	drum type (210 b/hr)		
	3019	3	9.058	Sea Devil disc (6)	29 b/hr)		
L		94	95.321	Total	,		
Skimmoro		04	05 221	100	θ available for DWS		

On-water Storage	No.	Capacity (b)	Total (b)	Comment	
Small Barge, Bladder	4	157	628	Lancer Barge (157 b)	
	4	314	1,256	Lancer (314 b)	
	1	700	700	Dunlop Dracone 1D5	
	1	210	210	Dunlop Dracone 1E	
	3	157	471	Pillow Tank (157 b)	
	2	81	162	Pillow Tank (81 b)	
	3	12	36	Pillow Tank (500 gal)	
	18		3,463		
Storage OSRL	18		3,463	100 % available	

Storage Brea	akdown	No.	Capacity (b)	Total (b)	Comment	
Sec	ondary (barges)					
	Total:	0		0	100	% available
Primary	(bladders >94b)	13		3,265		
	Total:	13		3,265	100	% available
Primary	(bladders <94b)	5		198		
	Total:	5		198	100	% available
	Vessels					
	Total:	0		0	100	% available
		18		3,463		
Storage	OSRL	18		3,463	100	% available

Comparison to Previous Survey

Comparison to Previous Survey		rvey	OSRL			
Year	ltem	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
1996	Boom (ft)*		45,818	50	22,909	
2000	Boom (ft)		45,322	100	45,322	22,413
1996	Skimmers (b/d)	63	**	50		
2000	Skimmers (b/d)	94	95,321	100	95,321	95,321
1996	Storage (b)***	13	1,497	50	749	
2000	Storage (b)	18	3,463	100	3,463	2,714

***added wrong in 1966, should be 1497 b, not incl. Fast Tanks

Name National Response Corporation (NRC) Address 446 Edwards Avenue City Calverton State NY Zip [11933 Phone 631-369-3644 Fax Contact Michael Reese, Vice President Support Services Previous Survey Members Alaska Tanker Tesoro Contact Michael Reese, Vice President Support Services Previous Survey Members Alaska Tanker Tesoro Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USC and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Eduipment Boom Feet Characteristics Boom <td< th=""><th></th><th></th><th>OIL SPILL</th><th>RESPONSE ORGA</th><th>NIZATIONS</th><th></th><th></th></td<>			OIL SPILL	RESPONSE ORGA	NIZATIONS		
Rational robust of portable (RRC) Address 448 Edwards Avenue City Calverton State NY Zip Phone 631-369-8644 Fax Fax 631-369-4908	Namo	National Posnon	so Corpor	tion (NPC)			
Audress Frod Linkards Avenue City Calverton State NY Zip 11933 Phone 631-369-8644 Other Imrese@Incxchange.ncc.com Contact Michael Reese, Vice President Support Services Previous Survey Members Alaska Tanker Tesoro Comments Tesoro	Address	AAG Edwards Ave					
State INV Zip 11933 Phone 631-369-8644 Fax 631-369-4908	City	Calverton					
Phone 631-369-8644 Fax (631-369-4908 Other mresse@nrcxchange.nrcc.com Contact Michael Reese, Vice President Support Services Previous Survey Members Alaska Tanker Tesoro Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Boom Feet Characteristics Question 3/22" Nearshore 23.100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total Boom NRC 23.100 Total Skimmers NRC 9 108.966	State	NY	Zin	11933			
Phone 631-369-8644 Fax 631-369-4908 Other mreese@nrcxchange.nrcc.com	Oldie		210	11000			
Other Imreese@incxchange.nrcc.com Contact Michael Reese, Vice President Support Services Previous Survey Members Alaska Tanker Tesoro Members Alaska Tanker Tesoro Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Equipment Boom Coean Var Nearshore 23,100 10 % estimate of availability for PWS. Skimmers Ocean Var Boom NRC 23,100 Total Boom NRC Q. Coean >42?"	Phone	631-369-8644	Fax	631-369-4908			
Contact Michael Resse, Vice President Support Services Previous Survey Members Alaska Tanker Tesoro Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Boom NRC 23,100 168-42" Harbor/river <18"	Other	mreese@nrcxcha	nae.nrcc.cc	om			
Members Alaska Tanker Tesoro Ocmments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Equipment Boom Feet Characteristics Ocean >42." Nearshore 23,100 104 Boom NRC 23,100 Total Equipment Boom NRC 23,000 Skimmers d-rated b/d No. Total b/d Type Q4,000 3 72,000 Marshore 9 108,966 100 Skimmers NRC 9 108,966 Total Boom S	Contact	Michael Reese, V	ice Presid	ent Support Servic	es F	Previous Surve	v
Members Alaska Tanker Tesoro Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Boom Feet Characteristics 0 Nearshore 23,100 18-42" 14 Harbor/river <18"		,					
Boom Feet Characteristics Boom Net Clan 23,100 18.42" Nearshore 23,100 Total 5.30(100) Boom NRC 23,100 18.42" Nearshore 23,100 Total 5.42(100) Skimmers d-rated b/d No. Total Skimmers NRC 9 108,966 Total Skimmers NRC 9 108,966 Total Boom Readers 16.396 Total 16.396 Skimmers NRC 23,100 100 % estimate of available if rows Skimmers d-rated b/d No. Total 16.395 100 100 % estimate of availability for PWS. Skimmers NRC 9 108,966 100 % available if rows 16.395 100 100 % available if rows 100 % available if rows 100 100 % available if rows 100 100 100 100 100 100 100 100	Members	Alaska Tanker		Tesoro			
Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment							
Comments Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment	.						
Visited home office on 5 July 2000. NRC maintains very large equipment inventory located at various locations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Ocean >42" Nearshore 23,100 18-42" Harbor/river <18" Boom NRC 23,100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total J Boom NRC 23,100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 Total Skimmers NRC 9 108,966 Total Skimmers NRC 0 0 0 Storage NRC 0 0 0 100 % available for PWS.	Comments	i					
Iocations through the continental US, Hawaii and the Caribbean. A computer-based system is used to track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Mocean >42" Alter authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Cocean >42" Mearshore 23,100 18.42" Harbor/river Harbor/river <18"	Visited hom	e office on 5 July	2000. NRC	c maintains very larg	e equipment inven	tory located at	various
track and maintain equipment. Maintenance is performed by NRC regional mechanics and supervised for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Qcean A22" Nearshore 23,100 18-42" Harbor/river <18" Fire boom 23,100 Total Boom NRC 23,100 Total Boom NRC 23,100 Total Boom NRC 23,100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 0 0 Storage NRC 0 0 100 % available for PWS.	locations t	hrough the contine	ental US, H	awaii and the Caribb	ean. A computer-	based system	is used to
for quality assurance by regional managers. Equipment appears to be in good condition. NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Feet Characteristics Boom Feet Characteristics Mearshore 23,100 18-42" Harbor/river <18"	track and i	maintain equipmer	nt. Mainten	ance is performed b	y NRC regional me	echanics and s	upervised
NRC maintains a contingency augmentation package of equipment primarily to support West Coast incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Ocean >42" Nearshore 23,100 18-42"	for quality	assurance by regi	onal manag	gers. Equipment app	pears to be in good	d condition.	•
incidents, but would be available if needed by a member or non-member in PWS. This equipment is summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Ocean >42" Nearshore 23,100 18-42" Harbor/river <18" Call of the state of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Total 0 % available Storage NRC 0 0 100 % available Storage NRC 0 0 100 % available	NRC mainta	ains a contingency	augmenta	tion package of equi	pment primarily to	support West	Coast
summarized below. Requests for additional equipment would require approval by NRC, and where applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Ocean >42"	incidents.	but would be avail	able if need	led by a member or	non-member in PV	VS. This equip	oment is
applicable, approval of USCG and State authorities. NRC equipment on the West Coast is not included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Ocean >42" Nearshore 23,100 18-42" Harbor/river <18"	summarize	ed below. Reques	ts for additi	onal equipment wou	Id require approva	I by NRC. and	where
Included here as it is included under Clean Pacific's equipment. Equipment Boom Feet Characteristics Nearshore 23,100 1842" Harbor/river <18"	applicable	approval of USC	G and State	e authorities. NRC e	auipment on the V	Vest Coast is n	ot
Equipment Boom Feet Characteristics Nearshore 23,100 18-42" Harbor/river <18"	included h	ere as it is include	d under Cle	ean Pacific's equipm	ent		
Equipment Feet Characteristics Ocean >42" Nearshore 23,100 18-42" Harbor/river <18"	moladoam				ond		
Boom Feet Characteristics Ocean >42" Nearshore 23,100 18-42" Harbor/river <18"	Fauinment						
Ocean >42" Nearshore 23,100 18-42" Harbor/river <18"	Boom	•	Feet	Characteristics			
Nearshore 23,100 18-42" Harbor/river <18"		Ocean	,	>42"			
Harborizion Horizon Kinite Harborizion <		Nearshore	23 100	18-42"			
Fire boom 110 Boom NRC 23,100 Total Boom NRC 23,100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 0 Towable storage bladder 0 0 0 0 100 % available Storage NRC 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 0 100 % available		Harbor/river	20,100	<18"			
23,100 Total Boom NRC 23,100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers Skimmers NRC 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Total (b) Comment Bladders 0 100 % available Storage NRC 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) Total: 0 0 100 % available		Fire boom		10			
Boom NRC 23,100 100 % estimate of availability for PWS. Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 Total Skimmers NRC 9 108,966 Total On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Towable storage bladder 0 0 0 100 % available Storage NRC 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 100 % available % available			23 100	Total			
Boom NRC 20, no No Total b/d Type Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Image: Strage NRC 9 108,966 Total Skimmers NRC 9 108,966 Total On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Total (b) Comment Image: Storage Image: Storage Image: Storage 0 Total (b) Comment Storage NRC 0 0 100 % available Storage NRC 0 100 % available Total: 0 0 100 % available	Boom	NRC	23,100	100	% estimate of av	ailability for PV	21
Skimmers d-rated b/d No. Total b/d Type 24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Total (b) Comment Skinders 0 0 0 Total (b) Comment Storage NRC 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 0 100 % available	Doom	NILO	20,100	100		anability for t	vo.
24,000 3 72,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 100 % available for PWS. Skimmers 0 Total (b) Comment Barges 0 100 % available storage bladder 0 Towable storage bladder Storage NRC 0 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 0 100 % available	Skimmere	d-rated b/d	No	Total h/d	Type]
24,000 3 12,000 Marco 6,857 3 20,571 Guzzler Vacuum Unit 5,465 3 16,395 Vikoma Cascade 9 108,966 Total	Okininei 3	24,000	3	72 000	Marco		
0,007 0 <td></td> <td>6 857</td> <td>3</td> <td>20.571</td> <td>Guzzler Vacuum</td> <td>LInit</td> <td></td>		6 857	3	20.571	Guzzler Vacuum	LInit	
3 10,000 Vitorina Cascade 9 108,966 Total Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Total (b) Comment Bladders 0 Towable storage bladder 0 0 0 0 Storage NRC 0 Total (b) Comment Storage NRC 0 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Storage Breakdown No. Capacity (b) Total (b) Comment Storage Intervention No. Capacity (b) Total (b) Comment Secondary (barges) 0 0 100 % available		5 465	3	16 395	Vikoma Cascade	Onit	
Skimmers NRC 9 100,500 1001 Skimmers NRC 9 108,966 100 % available for PWS. On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Towable storage bladder 100 Bladders 0 Towable storage bladder 0 0 100 % available Storage NRC 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 100 % available		5,405	9	10,000	Total		
On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Towable storage bladder Bladders 0 Towable storage bladder 0 0 0 Storage NRC 0 Storage Breakdown No. Capacity (b) Total (b) Comment Storage Breakdown No. Capacity (b) Total: 0 0	Skimmore		9	108,900	100	% available f	or DW/S
On-water Storage No. Capacity (b) Total (b) Comment Barges 0 Towable storage bladder 0 Towable storage bladder Bladders 0 0 Towable storage bladder 0 0 0 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 0 100 % available	SKIIIIIEIS	NIL	J	100,900	100		JI F VVO.
Barges No. Capacity (b) Fotal (b) Comment Bladders 0 Towable storage bladder 0 0 Storage NRC 0 Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 Total: 0 0	On-wator S	Storage	No	Canacity (b)	Total (b)	Comment	
Bladders 0 Towable storage bladder 0 0 Towable storage bladder 0 0 0 Storage NRC 0 100 % available Storage Breakdown NRC 0 100 % available Total (b) Comment Total: 0 100 % available		Barnes	740.			Comment	
Storage NRC 0 0 0 Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) 0 100 % available	-	Bladdere			Ο	Towable store	ne bladder
O O Storage NRC O Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) Total: O 0 100 % available		Diauueis			0		ige blaudel
Storage NRC 0 0 100 % available Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges)			0		Ο		
Storage Breakdown No. Capacity (b) Total (b) Comment Secondary (barges) Total: 0 100 % available	Storago	NDC	0		0	100	% available
Storage BreakdownNo.Capacity (b)Total (b)CommentSecondary (barges) </td <td>Storage</td> <td>MINU</td> <td>U</td> <td></td> <td>0</td> <td>100</td> <td></td>	Storage	MINU	U		0	100	
Secondary (barges) Total: 0 0 100 % available	Storage Br	reakdown	No	Canacity (b)	Total (b)	Comment]
Total: 0 0 100 % available	Storage Br	condary (barges)	110.		10(a) (b)	Comment	
	38	Total	Λ		0	100	% availabla
Primary (hladders >94h)	Primon	v (bladdere 50/b)	U		0	100	

	Total:	0		0	100	% available
Primar	y (bladders <94b)					
Total:		0		0	100	% available
Vessels						
	Total:	0		0	100	% available
		0		0		
Storage		Δ		0	100	% available
Compariso	on to Previous Su	vey	NRC	U	100	
Slorage	NRC	0		Ŭ	100	
Compariso Year	on to Previous Su	r vey No.	NRC Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
Compariso Year none	on to Previous Sur Item Boom (ft)	r vey No.	NRC Length / Capacity	% est. Available 100	PWS Avail.	Gain/Loss
Compariso Year none 2000	on to Previous Sui Item Boom (ft) Boom (ft)	r vey No.	NRC Length / Capacity 23,100	% est. Available 100 100	<i>PWS Avail.</i> 0 23,100	<i>Gain/Loss</i> 23,100
Compariso Year none 2000 none	on to Previous Sur Item Boom (ft) Boom (ft) Skimmers (b/d)	rvey No.	NRC Length / Capacity 23,100	% est. Available 100 100 100	<i>PWS Avail.</i> 0 23,100 0	Gain/Los
Compariso Year none 2000 none 2000	n to Previous Sur Item Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d)	rvey No.	NRC Length / Capacity 23,100 108,966	% est. Available 100 100 100 100	<i>PWS Avail.</i> 0 23,100 0 108,966	Gain/Loss 23,100 108,966
Compariso Year none 2000 none 2000 none	n to Previous Sur Item Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d) Storage (b)	rvey No.	NRC Length / Capacity 23,100 108,966	% est. Available 100 100 100 100 100	PWS Avail. 0 23,100 0 108,966 0	Gain/Loss 23,100 108,966

		OIL SPILL	RESPONSE ORGA	NIZATIONS	
Name	SeaPro				
Address	540 Water Street	Suito 201			
City	Ketchikan				
State	ΔΚ	Zin	99901		
Olale		Ζip	55501		
Phone	907-225-7002	Fax	907-247-1117		
Other	brian@seapro.org	Toll Free	in Alaska: 1-888-225	5-7676, website: v	www.seapro.org
Contact	Brian A. Green				Previous Survey 1996
Members	Tesoro				
b					
Comments	S				
Seapro ma	intains equipment	stockpiles i	n Ketchikan / Metlak	tla, Craig / Klawo	ck, Wrangel / Peterburg,
Kake, Sit	ka, Juneau, Haines	s / Skagway	and Yakutat.		
Equipment	is available to mer	mbers and i	s mobilized for trans	port. Arrival time	to PWS is approx. 24 to
48 hours.					
Equipmen	t	1	1		
Boom	-	Feet	Characteristics		
	Ocean	600	>42"	Oil Stop Ocean,	Ketchikan & Metlakatla
	Nearshore	0	18-42"		
	Harbor/river	4,820	<18"	Ketchikan & Met	tlakatla
	Harbor/river	4,000	<18"	Craig & Klawock	k, Wrangel & Petersburg
	Harbor/river	9,820	<18"	Kake and Sitka	
	Harbor/river	3,000	<18"	Pelican / Elfin C	ove (1000ft), Gustavus
	Harbor/river	6,520	<18"	Juneau	
	Harbor/river	4,000	<18"	Haines & Skagw	/ay, Yakutat
	Fire boom	0			
-		32,760	Total		
Boom	SeaPro	32,760	100	% estimate of a	vailability for PWS.
-				T	
Skimmers	d-rated b/d	No.	Total b/d	Туре	
	3,710	4	14,842	Lori Bursh (Ketc	h.Gust., Jun., Haines)
	720	2	1,440	Aguaguard RBS	10/2 (Ketch. Sitka)
	3,984	3	11,952	Foilex TDS-250	(Ketch., Sitka)
	120	4	480	Crucial C-13e R	op Mop (4 locations)
	480	4	1,920	Action Petrol. M	ulti-Skim 24 (4 locations)
	1,371	1	1,371	GT-185	
	-	18	32,005	Total	
Skimmers	SeaPro	18	32,005	100	% available for PWS.
					
On-water	Storage	No.	Capacity (b)	Total (b)	Comment
	Barges	3	7,000	21,000	Unitor 1000m3 (Ketch.Sitka
Small	Barges, Bladder	8	249	1,992	4 locations
	Bladders	3	700	2,100	Unitor 100m3 (Ketch.Sitka)
	(in 3 locations)	3	143	429	Canflex Sea Slug 6000gal
	(in 5 locations)	5	100	500	Canflex Sea Slug 4200gal
	(in 4 locations)	4	79	316	Vikoma towable (78.6b)

		26		26,337		
Storage	SeaPro	26		26,337	100	% available
Storage Breakdown		No.	Capacity (b)	Total (b)	Comment	
S	econdary (barges)	3		21,000		
	Total:	3		21,000	100	% available
Prima	ry (bladders >94b)	19		5,021		
	Total:	19		5,021	100	% available
Prima	ry (bladders <94b)	4		316		
	Total:	4		316	100	% available
	Vessels					
	Total:	0		0	100	% available
		26		26,337		
Storage	SeaPro	26		26,337	100	% available
Comparis	on to Previous Su	rvey	SeaPro			
Year	ltem	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Los
1996	Boom (ft)		300	80	240	
2000	Boom (ft)		32,760	100	32,760	32,520
2000		-	5 00 1	00	4 774	
1996	Skimmers (b/d)	2	5,964	80	4,771	
1996 2000	Skimmers (b/d) Skimmers (b/d)	2 18	<u>5,964</u> 32,005	100	32,005	27,233
1996 2000 1996	Skimmers (b/d) Skimmers (b/d) Storage (b)	2 18 6	5,964 32,005 20,790	100 99	<u>4,771</u> <u>32,005</u> 20,582	27,233

OIL SPILL RESPONSE ORGANIZATIONS									
Name II S Navy Supervisor of Salvage ESSM Base Anchorage									
Address	Box 5685		Nage, LOOM Dase	Anchorage					
City	Fort Richardson								
State	AK	Zin	99635-5685						
Otate									
Phone	907-384-2968	Fax	907-384-2969						
Other	email: astock@es	smanc.com							
Contact Gary Stock, Base Manager Previous Survey None									
	None Previous Survey None								
Members	Members Activated by U.S. Coast Guard								
<u>.</u>									
Comments	6								
Visited 14	July 2000 during w	hich review	ed inventory and tou	ured storage hange	ers.				
Equipment	is staged and read	dy to be mo	ved by road or air.						
Can releas	e as much equipm	ent as requ	ested by U.S. Coast	t Guard.					
U.S. Coast	Guard equipment	is stored in	adjacent location.						
100% of eq	uipment is calcula	ted for relea	ase to PWS.						
Most equip	ment is in Anchora	ige; small a	mount is at Kodiak.						
Equipmen	t								
Boom		Feet	Characteristics						
	Ocean	3,600	>42"	stored in two 8ft >	x 8ft x 20ft boom vans				
	Nearshore	12,800	18-42"	includes 2400ft s	tored at Eielson AFB.				
	Harbor/river	11,900	<18"						
	Fire boom								
		28,300	Total						
Boom	SupSalv ANC	28,300	100	% estimate of av	ailability for PWS.				
Skimmers	d-rated b/d	No.	Total b/d	Туре					
	1371	3	4,113	Marco Class V, 3	6ft vessel				
	1371	1	1,371	Class XI VOSS					
	1371	1	1,371	Destroil, Weir Typ	De VUSS				
	1920	2	3,840	36" Oil Mop					
	211	1	211	Harbor, DESMI N	/IINIIVIAX (44 b/hr)				
	466	3	1,398	SkimPak 2" mode					
	259	1	259	SKIMPak 1.5" mo	aei 2200				
	48	1	48						
	466	2	932	Inland System, 2	SKIM Pacs 4200				
	259	2	518	Inland System, 1.					
	211	1	211	Inland System, D	ESMI MiniMax (44 b/hr)				
	480	1	480	Inland System, D	rum with Power Unit				
	58	1	58	b" Rope Mop, CS	ol IVIVV-41				
Obligation		20	14,810	100					
Skimmers	Supsaiv ANC	20	14,810	100	% available for PWS.				
On water t	Storage	No	Canadity (b)	Total (b)	Comment				
Un-water's	Dioddoro	INO.	Capacity (D)	i otai (D)	500 gol towoble flatation				
	Blauders	C 1		00					
		1	24	24	Dort of inland system				
		1	36	30	Part of Inland System.				

		1	1,190	1,190	50,000 gal.	
		6	3,238	19,429	136,000 gal. K	odiak
		14		20,738		
Storage	SupSalv ANC	14		20,738	100	% available
		1		T	T	
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	
S	econdary (barges)	0		0		
	Total:	0		0	100	% available
Prima	ry (bladders >94b)	7		20,619		
	Total:	7		20,619	100	% available
Prima	ry (bladders <94b)	7		119		
	Total:	7		119	100	% available
	Vessels					L
	Total:	0		0	100	% available
		14		20,738		
Storage	SupSalv ANC	14		20,738	100	% available
Comparis	on to Previous Su	irvey	SupSalv ANC			
Year	Item	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
none	Boom (ft)				0	
2000	Boom (ft)		28,300	100	28,300	28,300
none	Skimmers (b/d)				0	
2000	Skimmers (b/d)	20	14,810	100	14,810	14,810
	Storage (b)				0	
none					1	1

Name	U.S. Navy Superv	visor of Sa	Ivage, Outside of A	laska				
Address	2531 Jefferson Davis Highway, Code 00C25							
City	Arlington							
State	VA	Zip	22242-5160					
Phone	703-607-2758	Fax	703-607-2757					
Other	healywp@navsea	.navy.mil						
Contact	Will Healy				Previous Survey	None		
Others	L. Saner, William	sburg, VA	757-888-0278					
Others	R.Brochinni, 805	-9824463,	Pt. Hueneme, CA					
	· · · · · ·							
Members	Activated by U.S	. Coast Gu	ard					

Visited: Williamsburg, 7 July, Port Hueneme, 8 August 2000. An extensive inventory is staged and ready for immediate transport, primarily intended to respond to US Navy spill incidents. Equipment release must be requested through and funded by USCG. In the past, 50-100% of equipment has been released during significant incidents. In addition to Anchorage, material is stored in Williamsburg, VA; Port Hueneme and San Diego, CA; and Pearl Harbor, HA. All equipment is air transportable by military heavy lift aircraft. The equipment list below includes all areas except Anchorage which has a separate file in this report.

Equipment

	_					
Boom		Feet	Characteristics			
	Ocean	40,000	>42"	stored in two 8ft	x 8ft x 20ft boom	n vans
	Nearshore		18-42"	includes 2400ft	stored at Eielson	AFB.
	Harbor/river		<18"			
	Fire	350				
		40,350	Total			
Boom	SupSalv Outside	40,350	100	% estimate of a	vailability for PW	'S.
Skimmers	d-rated b/d	No.	Total b/d	Туре		
	1371	20	27,420	Marco Class V,	36ft vessel	
	1371	1	1,371	Class XI VOSS		
	1371	3	4,113	Destroil, Weir T	ype VOSS	
	1920	1	1,920	36" Oil Mop		
		25	34,824	Total		
Skimmers	SupSalv Outside	25	34,824	100	% available fo	r PWS.
					-	
On-water S	Storage	No.	Capacity (b)	Total (b)	Comment	
	Bladders	8	619	4,952	26k Dracone	
		5	3,238	16,190	136k Dracone	
		3	6,094	18,282	290k Dracone	
		6	1,190	7,140	50k (gal) Drac	one
		22		46,564		
Storage	SupSalv Outside	22		46,564	100	% available
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	

Secondary (barges)				
Total:	0	0	100	% available
Primary (bladders >94b)	22	46,564		
Total:	22	46,564	100	% available
Primary (bladders <94b)				
Total:	0	0	100	% available
Vessels				
Total:	0	0	100	% available
	22	46,564		
Storage SupSalv Outside	22	46,564	100	% available

Comparis	on to Previous Su	rvey	SupSalv Outside			
Year	ltem	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
none	Boom (ft)				0	
2000	Boom (ft)		40,350	100	40,350	40,350
none	Skimmers (b/d)				0	
2000	Skimmers (b/d)	25	34,824	100	34,824	34,824
none	Storage (b)				0	
2000	Storage (b)	22	46,564	100	46,564	46,564
-						

OIL SPILL RESPONSE ORGANIZATIONS	
Name Unitoch of Alaska	
Address 2401 Cinnabar Loon	
City Anchorage	
State AK Zin 99507	
Phone 907-949-5142 Fax 907-349-2733 In Alaska 800-649-5859	
Other email: unitech@alaska.net: website: www.alaska.net/-unitech	
Contact Dave Herrel (George Lorenz, President) Previous Survey N	one
Members Polar Tankers	
Comments	
Conducted review of office and storage depot on 19 July 2000.	
Primarily Unitech provides man-power and equipment for smaller and inland spills.	
Equipment inventory will vary depending on call-out.	
Attempt is made to have approximately 10,000 ft. river boom available, with associated pumps,	
land-based portable tanks, and mop machines.	
20% of equipment is considered available for Prince William Sound because of day-to-day respon-	se
requirements.	
Equipment	
Boom Feet Characteristics	
Ocean >42"	
Nearshore 18-42"	
Harbor/river 8,000 6-18" Often working and may not be availa	ıble.
Fire boom	
8,000 Total	
Boom Unitech 1,600 20 % estimate of availability for PWS.	
· · · · · · · · · · · · · · · · · · ·	
Skimmers d-rated b/d No. Total b/d Name	
58 4 232 M41 Rope Mops	
4 232 Total	
Skimmers Unitech 0.8 46.4 20 % available for P	NS.
On-water Storage No. Capacity (b) Total	
Unly land tanks available.	
Storage Unitech 0 0 0 20 %	available
Storage Breakdown No Capacity (b) Total (b) Comment]
Secondary (barges)	
	available
Primary (bladders >94b)	
Total: 0 0 20 %	available
Primary (bladders <94b)	
Total: 0 0 20 %	available
Vessels	
Total [·] 0 0 20 %	available

Year	ltem	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
none	Boom (ft)				0	
2000	Boom (ft)		8,000	20	1,600	1,600
none	Skimmers (b/d)				0	
2000	Skimmers (b/d)	1	46	20	9	9
none	Storage (b)				0	
2000	Storage (b)	0	0	20	0	0

		OIL SPILL	. RESPONSE ORG	ANIZATIONS		
Nomo	LLC Coost Cuer					
Name	U.S. Coast Guard	d, Alaska	Ct. Cuite 400			
Address	Marine Safety Of	TICE, 510 L	., St., Suite 100			
City	Anchorage	7:0	00504			
State	AK	Zip	99501			
Dhana	007 074 0700	F avi	007 074 0754			
Phone	907-271-6700		907-271-6751) mail		
Other	RICK Janelle (DRA	AT): Rjaneli	e@CGAlaska.USCG	p.MII		None
Contact	Captain of the Po	ort		F	revious Survey	None
Momboro						
Members						
Commont	_					
Visited 14	> July 2000 during w	hich roviou	od inventory and to	urad storage bange		
Fauinmont	is stored in donate		e State and is roloss	and through MSO A	nchorado MSC) Valdez
	ak Environmentel		e State and is feleas	n ISD Sitka dana	ading on location	p valuez,
100% in on		to DWS	au of MSD Kelchika		iding on locatio	11.
100% IS CO	nsidered available	IO PVVS.	ar by beat to DWC w	uithin hours to doug		
Material ca	n be transported b	y air, road	or by boat to PWS w	inin nours to days		
Equipmen	t	— ,				
Boom						
		Feet	Characteristics			
	Ocean	5,000	>42"	Anchorage; with	Univ. Slide Coni	nector
	Ocean Nearshore	5,000 12,000	Characteristics >42" 18-42"	Anchorage; with Kodiak, various s	Univ. Slide Coni izes and manuf	nector acturers
	Ocean Nearshore Harbor/river	5,000 12,000 3,000	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova,	Univ. Slide Coni izes and manufa Whittier; Kepne	nector acturers er Sea Curt.
	Ocean Nearshore Harbor/river Harbor/river	5,000 12,000 3,000 4,400	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home	Univ. Slide Coni izes and manufa Whittier; Kepne er, Kodiak	nector acturers er Sea Curt.
	Ocean Nearshore Harbor/river Harbor/river Harbor/river	Feet 5,000 12,000 3,000 4,400 7,600	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke	Univ. Slide Coni izes and manufa Whittier; Kepne er, Kodiak etchican, Peters	nector acturers er Sea Curt. burg
	Ocean Nearshore Harbor/river Harbor/river Harbor/river Fire boom	Feet 5,000 12,000 3,000 4,400 7,600	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke	Univ. Slide Coni izes and manuf Whittier; Kepne r, Kodiak etchican, Peters	nector acturers er Sea Curt. burg
	Ocean Nearshore Harbor/river Harbor/river Harbor/river Fire boom	Feet 5,000 12,000 3,000 4,400 7,600 32,000	Characteristics >42" 18-42" <18" <18" <18" 	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke	Univ. Slide Coni izes and manuf Whittier; Kepne r, Kodiak etchican, Peters	nector acturers er Sea Curt. burg
Boom	Ocean Nearshore Harbor/river Harbor/river Harbor/river Fire boom USCG AK	Feel 5,000 12,000 3,000 4,400 7,600 32,000 32,000	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av	Univ. Slide Coni izes and manuf Whittier; Kepne er, Kodiak etchican, Peters ailability for PW	nector acturers er Sea Curt. burg
Boom	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000	Characteristics >42" 18-42" <18" <18" <18" Total 100	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av	Univ. Slide Coni izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW	nector acturers er Sea Curt. burg
Boom	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i>	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 No.	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av	Univ. Slide Coni izes and manufa Whittier; Kepne er, Kodiak etchican, Peters ailability for PW	nector acturers er Sea Curt. burg S.
Boom Skimmers Anch.	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i>	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 No. 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av	Univ. Slide Coni izes and manufa Whittier; Kepne er, Kodiak etchican, Peters ailability for PW	nector acturers er Sea Curt. burg S.
Boom Skimmers Anch. Homer	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288	Feel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 No. 1 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 with	Univ. Slide Coni izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump	nector acturers er Sea Curt. burg S. ing System)
Boom Skimmers Anch. Homer Kodiak	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK d-rated b/d 288 288	Feel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 No. 1 1 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Con izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump	nector acturers er Sea Curt. burg S.
Boom Skimmers Anch. Homer Kodiak Juneau	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK d-rated b/d 288 288 288	Feel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 No. 1 1 1 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Coni izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump th 2" pump	nector acturers er Sea Curt. burg S.
Boom Skimmers Anch. Homer Kodiak Juneau Sitka	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288	Feel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 1 1 1 1 1 1 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Con izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System)
Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Com izes and manufa Whittier; Kepne er, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System)
Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288	Peet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 1 1 6	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Coni izes and manufa Whittier; Kepne er, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System)
Boom Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate Skimmers	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288 288 288	Peel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 1 6 6	Characteristics >42" 18-42" <18" <18" <18" Total 100 <i>Total b/d</i> 0 288 288 288 288 288 288 288 288 288 2	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Com izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System)
Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate Skimmers	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288 288 288	Peel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 1 6 6	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Coni izes and manufa Whittier; Kepne er, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System) r PWS.
Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate Skimmers On-water	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288 288 288 28	Feel 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 6 6 No.	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Com izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System) r PWS.
Boom Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate Skimmers On-water Sma	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288 288 288 28	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 1 1 1 1 6 6 No. 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av <i>Type</i> VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Com izes and manuf Whittier; Kepne r, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System) r PWS.
Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate Skimmers On-water Sma	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288 288 288 28	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 32,000 1 1 1 1 6 6 1	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av % estimate of av 7ype VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi	Univ. Slide Com izes and manuf Whittier; Kepne er, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System) r PWS.
Boom Skimmers Anch. Homer Kodiak Juneau Sitka Plate Skimmers On-water Sma	Ocean Nearshore Harbor/river Harbor/river Fire boom USCG AK <i>d-rated b/d</i> 288 288 288 288 288 288 288 288 288 28	Feet 5,000 12,000 3,000 4,400 7,600 32,000 32,000 32,000 1 1 1 1 6 6 12 13	Characteristics >42" 18-42" <18"	Anchorage; with Kodiak, various s Valdez, Cordova, Dutch Hbr, Home Juneau, Sitka, Ke % estimate of av % estimate of av VOSS (Vessof of SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi SkimPac 4200 wi Total 100 <i>Total</i> (<i>b</i>) 666 286 952	Univ. Slide Com izes and manufa Whittier; Kepne er, Kodiak etchican, Peters ailability for PW Opport. Skimm th 2" pump th 2" pump	nector acturers er Sea Curt. burg S. ing System) r PWS. ole oss AK

Storage Breakdown	No.	Capacity (b)	Total (b)	Comment
Secondary (barges)				

	Total:	0		0	100	% available
Primar	y (bladders >94b)	1		666		
Total:		1		666	100	% available
Primar	y (bladders <94b)	12		286		
	Total:	12		286	100	% available
	Vessels					
	Total:	0		0	100	% available
		12		952		
		15		002		
Storage	USCG AK	13 13	USCG AK	952	100	% available
Storage	USCG AK	13 13		952	100	% available
Storage Compariso Year	USCG AK on to Previous Su Item	13 13 rvey No.	USCG AK Length / Capacity	952 % est. Available	100 PWS Avail.	% available Gain/Loss
Storage Compariso Year none	USCG AK on to Previous Su Item Boom (ft)	13 13 rvey No.	USCG AK Length / Capacity	952 % est. Available	100 <i>PWS Avail.</i> 0	% available Gain/Los
Storage Compariso Year none 2000	USCG AK on to Previous Su Item Boom (ft) Boom (ft)	13 13 rvey No.	USCG AK Length / Capacity 32,000	952 % est. Available	100 <i>PWS Avail.</i> 0 32,000	% available Gain/Loss 32,000
Storage Compariso Year none 2000 none	USCG AK on to Previous Su <i>Item</i> Boom (ft) Boom (ft) Skimmers (b/d)	13 13 rvey No.	USCG AK Length / Capacity 32,000	952 % est. Available	100 <i>PWS Avail.</i> 0 32,000 0	% available Gain/Los 32,000
Storage Compariso Year none 2000 none 2000	USCG AK on to Previous Su <i>Item</i> Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d)	<u>13</u> 13 <u>rvey</u> <u>No.</u> 6	USCG AK <i>Length / Capacity</i> 32,000 1,440	952 % est. Available 100	100 <i>PWS Avail.</i> 0 32,000 0 1,440	% available Gain/Los 32,000 1,440
Storage Compariso Year none 2000 none 2000 none	USCG AK on to Previous Su <i>Item</i> Boom (ft) Boom (ft) Skimmers (b/d) Skimmers (b/d) Storage (b)	13 13 rvey No. 6	USCG AK Length / Capacity 32,000 1,440	952 % est. Available 100 100	100 <i>PWS Avail.</i> 0 32,000 0 1,440 0	% available Gain/Loss 32,000 1,440

		OIL SPILL	RESPONSE ORGA	NIZATIONS		
Name	IIS Coast Guard	L Outsido	Alaska]
Address	Commanding Off	i, outside /	Coast Guard Nation	al Strike Force (Coordination (enter
71001000	1461 North Road	Street				
City	Elizabeth City					
State	NC	Zip	27909			
Phone	252-331-6000	Fax	252-331-6012			
Other	hhenderson@nsfc	c.uscg.mil				
Contact	Harlen Henerson	, Mike Cric	kard		Previous Surve	y None
				.		
Members	Available upon R	equest of	Federal On-Scene	Coordinator.		
Commonte						
Visited: US	CG 13th District D	RAT- 20 Ju	ne: NSTCC- 7 July:	Marine Safety Off	fice (MSO) LA/I	B-7 Aug
Pacific St	rike Team- 10 Aug	ist: MSO S	an Francisco- 11 Au	marine callety on		B I Aug.
USCG has	an extensive equir	oment inver	ntory staged through	out the U.S. and t	erritories Equi	oment is
managed	day-to-day by the	District or S	tike Team to which i	it is assigned Ov	erall managem	ent of
these reso	ources is through the	ne NSFCC	to whom the Strike T	Feams report and	who manage m	naintenance
contracts	for equipment at D	istricts and	Strike Teams. It is I	ikely that all equir	oment would be	made
available	to PWS as needed	. All equipr	ment is ready for air	transport by C-13	0 or larger aircr	aft.
The equipr	nent listed below is	available f	rom locations outsid	e of Alaska, and	would take 36 to	o 48 hours
to reach F	PWS.			,		
Equipmen	t					
Boom	-	Feet	Characteristics			
	Ocean	15,536	>42"			
	Nearshore		18-42"			
	Harbor/river		<18"			
	Fire boom	45 500	.			
Deserve		15,536	l otal	0/		NO
Boom	USCG Outside	15,536	100	% estimate of a	valiability for PV	VS.
Skimmors	d-rated b/d	No	Total h/d	Type		
Skilliners	3017	<u> </u>	132 7/8	Type Desmi Skimmer	svetom	
	3017	6	18 102	High speed skim	mer	
L	0017	50	150 850	Total		
Skimmers	USCG Outside	50	150.850	100	% available f	or PWS.
On-water	Storage	No.	Capacity (b)	Total (b)	Comment	
Sma	ll Barge, Bladder	62	666	41,292	Lancer Inflata	ble
	-	6	240	1,440	CANFLEX Se	a Slug
		68		42,732		
Storage	USCG Outside	68		42,732	100	% available
				1		
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	
Se	econdary (barges)					
	Total:	0		0	100	% available
Primar	ry (bladders >94b)	68		42,732		
	Total:	68		42,732	100	% available

Primar	y (bladders <94b)					
	Total:	0		0	100	% available
	Vessels					
	Total:	0		0	100	% available
		68		42,732		
Storage	USCG Outside	68		42,732	100	% available
Compariso	on to Previous Su	irvey	USCG Outside			
Year	ltem	No.	Length / Capacity	% est. Available	PWS Avail.	Gain/Loss
none	Boom (ft)				0	

					-	
2000	Boom (ft)		15,536	100	15,536	15,536
none	Skimmers (b/d)				0	
2000	Skimmers (b/d)	50	150,850	100	150,850	150,850
none	Storage (b)				0	
2000	Storage (b)	68	42,732	100	42,732	42,732

		OIL SPILL	RESPONSE ORGA	NIZATIONS		
Name	VECO Alaska, Inc	C.	Companyator	CALLA Street		
Address	949 East 36th AV	enue	Corporate:	6411 A Street		
State	Allcholage	Zin	99508			
Otate			33000			
Phone	907-762-1500	Fax	907-762-1600			
Other	website: www.VE0	CO.com				
Contact				F	Previous Survey	None
Members	Polar Tankers					
Comment	S					
VECO prov	vides man-power, r	nachinery,	management and en	igineering services	S	
No booms,	, skimmers or on-w	ater oil stor	age are available.			
Equipmen	.4					
		Foot	Characteristics			
Boom	Ocean	1 661	>42"			
	Nearshore		18-42"			
	Harbor/river		<18"			
	Fire boom					
		0				
		0	Total			
Boom	VECO	0	100	% estimate of av	ailability for PW	S.
Skimmers	derated b/d	No.	Total b/d	Name		
	None	0				
		0		Total		
Skimmers	VECO	0	0	100	% available fo	r PWS.
0	04	N/ -	\mathbf{O} and \mathbf{a} if \mathbf{a} (b)	T - 4 - 1		
On-water	Storage	NO.	Capacity (b)	l otal		
	None	0	0			
Storage	VECO	0		0	100	% available
Slorage	VLCO	0	0	0	100	
Storage B	reakdown	No.	Capacity (b)	Total (b)	Comment	
S	econdary (barges)					
	Total:	0		0	100	% available
Prima	ry (bladders >94b)	_		-		
	Total:	0		0	100	% available
Prima	ry (bladders <94b)				400	0/
	I otal:	U		0	100	% available
	Vessels Total:	0		0	100	
L	i utal.	0		0	100	% available
		0		0	100	% available
Storage	VECO	Ω				/0 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A
Storage	VECO	0		0	100	
Comparise	VECO	0 rvev	VECO	0	100	
Compariso Year	VECO on to Previous Su Item	0 rvey No.	VECO Length / Capacitv	% est. Available	PWS Avail.	Gain/Loss

2000	Boom (ft)		0	100	0	0
none	Skimmers (b/d)				0	
2000	Skimmers (b/d)	0	0	100	0	0
none	Storage (b)				0	
2000	Storage (b)	0	0	100	0	0

APPENDIX 2. ANALYSIS OF DATA AND COMPARISONS BETWEEN 1996 AND 2000.

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Table A2-8c. Primary Storage (<95 barrels) - Summary by Company.	A2-10
Table A2-9. Available Booms - Summary by Type.	A2-11

				[
Year	Organization	No.	Length (ft)	% est. Available	PWS Avail.	Gain/Los
1996	ACS		155,851	100	155,851	
2000			314,368	100	314,368	158,51
*	AK Poll. Contr.					
2000			0	100	0	0
*	Burrard					
2000			82,000	10	8,200	8,200
1996	CISPRI		77,577	50	38,789	
2000			81,250	100	81,250	42,462
1996	Clean Bay		20,450	20	4,090	
2000			20,450	33	6,749	2,659
1996	Clean Coastal W.		26,102	40	10,441	
2000			29,002	50	14,501	4,060
1996	Clean Pacific		27,100	75	20,325	
2000			25,000	100	25,000	4,675
*	Clean Rivers					
2000			55,300	36	19,908	19,908
1996	Clean Seas		29,230	25	7,308	
2000			24,230	100	24,230	16,923
1996	Clean Sound		66,300	25	16,575	
2000			78,200	50	39,100	22,525
1996	EARL		32,857	50	16,429	
2000			29,791	100	29,791	13,363
1996	Foss Environ.		103,000	100	103,000	
2000			117,650	80	94,120	-8,880
1996	IT Corp		4,000	100	4,000	
2000			14,500	80	11,600	7,600
1996	MSRC		300,000	50	150,000	
2000			13,000	100	13,000	-137,00
1996	OSRL		45,818	50	22,909	
2000			45,322	100	45,322	22,413
*	NRC				,	
2000			23,100	100	23,100	23,100
1996	SeaPro		300	80	240	2,.50
2000			32.760	100	32.760	32,520
*	SupSalv ANC		,			
2000			28,300	100	28,300	28,300
*	SupSalv Outside		-,		-)	- ,
2000			40.350	100	40.350	40.350
*	Unitech		,		,	,
2000			8 000	20	1 600	1 600
*	USCG AK		0,000	20	1,000	1,000
2000			32 000	100	32 000	32 000
*	USCG Outside		52,000	100	52,000	52,000
2000			15 536	100	15 536	15 536
*	VECO		10,000	100	10,000	10,000
2000			0	100	0	0
2000	*not included in 1996 report		U	100	U	U
	Subtotal: Available	e in 1996			549,955	
	Subtotal: Available	e in 2000			900,785	
	nt listed in 4000 but	not in 000	`			
4000		not in 200	10.000	F 0	6.000	
1996			12,000	50	0,000	
1996	Clean Channel		47,750	50	23,875	
1996	Delaware Bay & Riv	ver	11,000	10	1,100	
1996	IMS		38,450	60	23,070	
1996	Industrial Cleanup,	Inc.	81,000	70	56,700	
1996	Marine Pollution Co	ntrol	13,000	100	13,000	
	Subtotal: Addition	al Availabl	e in 1996 but not i	in 2000:	117,745	
	Total Available in a	1996.			667 700	
	Total Available in '	2000.			900 785	
		- 1000 to 0	2000-		222.004	=
	Loss (-) / Gain from	11 1996 to 2		05	∠33,084	
	% Loss (-) or Gain			35		
	Total Available in 2	2000 (non (Governmental)		784 599	
	Loss (-) / Gain from	n 1996 to 2	000:		116 898	
	% Loss (-) or Gain			18		
		-		10		

Year	Organization	No. Avail	Capacitv (h/dav)	% est. Available	PWS Avail	Gain/Los
1996	ACS	146	23 714	100	23 714	2011/2000
2000	A00	208	122 328	100	122 328	98 614
*	AK Poll Contr	200	122,020	100	122,020	30,014
2000		0	0	100	0	0
*	Burrard	0		100	Ũ	Ŭ
2000	20110.0	1	1 388	10	139	139
1996	CISPRI	19	46 456	50	23 228	
2000		48	78 667	100	78 667	55 439
1996	Clean Bay	2	19,743	20	3,949	
2000		4	5,430	33	1.792	-2.157
1996	Clean Coastal W	4	6 234	40	2 494	_,
2000		5	14,746	80	11.796	9,303
1996	Clean Pacific	8	5 500	75	4 125	-,
2000		11	79 860	100	79 860	75 735
*	Clean Rivers				. 0,000	. 0,1 00
2000		24	53 743	65	34 933	34 933
1996	Clean Seas	4	27 770	25	6 943	0.,000
2000		14	35,480	100	35 480	28 538
1996	Clean Sound	5	*	25	00,400	20,000
2000		12	58 010	50	29 005	29.005
1996	FARI	23	51 980	50	25,000	20,000
2000		35	106 909	100	106 909	80 010
1996	Foss Environ	51	4 600	100	4 600	00,919
2000		40	61 521	80	40.265	44 566
1006	IT Corp	- 43	3 566	100	3 566	44,300
2000		9	440	80	352	-3 214
1006	MSPC	57	414 860	50	207.430	-0,214
2000	WISKC	8	60 959	100	60 959	-146.47
1006		63	**	50	00,959	-140,47
2000	USKL	03	05 221	50	05 221	05 221
2000	NDC	94	95,521	100	95,521	90,321
2000	NRC	0	100.000	100	100.000	100.000
2000	0	9	108,966	100	108,900	108,900
1996	SeaPro	2	5,964	80	4,771	07.000
2000	0.001.000	18	32,005	100	32,005	27,233
	Supsaiv ANC	00	11.010	100	44.040	44.040
2000	Our Oak - Outside	20	14,810	100	14,810	14,810
	Supsaiv Outside	05	24.004	100	24.004	04.004
2000	l luite ele	25	34,824	100	34,824	34,824
	Unitech	4	40	00		0
2000		1	46	20	9	y
	USCGAK		4.440	100	4.440	4.440
2000		6	1,440	100	1,440	1,440
*	USCG Outside	= 0	450.050	100		450.050
2000		50	150,850	100	150,850	150,850
*	VECO			1.0.0		
2000		0	0	100	0	0
	*not included in 1996 r	eport.				
ubtotal A	Available in 1996	389			310,908	
otal Ava	ilable in 2000:	649			1,049,709	
			-			
quipmer	nt listed in 1996 bu	11 not in 200				no. avai
1996	ANCON	4	5,652	50	2,826	2
1996	Clean Channel	18	*	50		9
1996	Delaware Bay	3	*	10		0
1996	IMS	7	5,075	60	3,045	4
1996	Indust.Cleanup	60	2,337	70	1,636	42
1996	Mar.Pollut.Contr.	7	38	100	38	7
ubtot. av	*not provided in 1996 r ailable only '96	eport.			4,719	63
otal Avai	ilable in 1996	452			315 627	
otal Avai	ilable in 2000	649			1 049 709	
	Gain 1006 to 2000	107			724 002	-
-) / (-) / (-) Loss (-)	or Gain.	44			233	
, 2035 (-)					200	
otal Non	-Gov. in 2000:	548			847,785	
oss (-) / (Gain Non-Gov.:	96			532,158	

Table A2-	-3. On-Water Stora	ige (Barrels)	, 1996 and 2000 da	ata (incl. Seconda	ry Storage).	
Year	Organization	No Avail	Capacity (b)	% est_Available	PWS Avail	Gain/Loss
1006		26	8 8/0	100	8 840	Cull#L000
2000	ACS	20	7 250	100	7 250	1 400
2000	AK Doll Contr	00	7,559	100	7,359	-1,490
2000	AK POIL CONT.	0	0	100	0	0
2000	Dummand	0	0	100	0	0
2000	Burraro	7	00.047	10	2 0 0 2	2 602
2000	010001	1	26,017	10	2,602	2,602
1996	CISPRI	13	8,849	50	4,425	10.000
2000		30	20,462	100	20,462	16,038
1996	Clean Bay	2	760	20	152	
2000		4	960	33	317	165
1996	Clean Coastal W	2	143	40	57	
2000		5	140	100	140	83
1996	Clean Pacific	42	6,664	75	4,998	
2000		14	54,954	100	54,954	49,956
*	Clean Rivers					
2000		13	1,220	100	1,220	1,220
1996	Clean Seas	3	1,036	25	259	
2000		12	8,876	100	8,876	8,617
1996	Clean Sound	1	460	25	115	
2000		4	37,390	50	18,695	18,580
1996	EARL	12	8,849	50	4,425	
2000		18	8.543	100	8.543	4.118
1996	Foss Environ	28	**	100	0	.,
2000		31	247 688	80	198 151	198 151
1996	IT Corp	6	144	100	144	100,101
2000		0	0	80	0	-144
1006	MSRC	42	59 500	50	29 750	-144
2000		14	7 000	100	7 000	22 750
2000		14	1,000	50	7,000	-22,750
1990	USKL	10	1,497	100	2 4 6 2	0.714
2000	NDC	10	3,403	100	3,403	2,714
0000	NRC	0		400		0
2000		0	0	100	0	0
1996	SeaPro	6	20,790	99	20,582	
2000		26	26,337	100	26,337	5,754
*	SupSalv ANC					
2000		14	20,738	100	20,738	20,738
*	SupSalv Outside					
2000		22	46,564	100	46,564	46,564
*	Unitech					
2000		0	0	20	0	0
*	USCG AK					
2000		13	952	100	952	952
*	USCG Outside					
2000		68	42,732	100	42,732	42,732
*	VECO					
2000		0	0	100	0	0
	*not included in 1996 r	eport.				
Subtotal A	Available in 1996	195			74,504	
Total Ava	ilable in 2000	379			469,103	
Equipme	nt listed in 1996 bu	it not in 200	D			
1996	ANCON	4	5,652	50	2,826	
1996	Clean Channel	18	*	50	_,,,	
1996	Delaware Bay	3	*	10		
1996	IMS	7	5 075	60	3 045	
1006	Indust Cleanur	60	2 3 3 7	70	1 626	
1006	Mar Pollut Contr	7	2,001	100	20	
1990	*not provided in 1000	report	30	100	30	
Subtatal	and provided in 1996				7 6 4 6	
Subtotal	only 1990:	99			1,040	
Total Ava	ilable in 1996:	294			82,049	
Total Ava	ilable in 2000:	379			469,103	
Loss (-) /	Gain to 2000:	85			387.055	=
% nee /-) or Gain:	29			472	
/0 2035 (-	, 51 G uin.	23			712	
Total Non	-Gov in 2000.	262			358 117	
I ULAI NON	-G0v. III 2000:	202			330,117	
Loss (-) /	Gain to 2000:	-32			276,069	
% Loss (-) or Gain:	-11			336	

Table A2-4. Details c	of On-W	/ater Stora	ge (Ca	pacity in B	arrels)	, 2000 data	l.					
	Prim.	(>94 b)	Prim	(<95 b)	Secon	d.Barge	١n \	/essel	То	tal	Verifi	cation
Organization	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
ACS	10	2,381	44	2,238	12	2,740	0	0	66	7,359	66	7,359
AK Poll. Contr.	0	0	0	0	0	0	0	0	0	0	0	0
Burrard	1	98	6	203	0.3	2,224	0.3	77	7.1	2,602	7	2,602
CISPRI	7	7,037	18	825	5	12,600	0	0	30	20,462	30	20,462
Clean Bay	2	198	2	119	0	0	0	0	3.96	317	4	317
Clean Coastal W.	0	0	5	140	0	0	0	0	5	140	5	140
Clean Pacific	12	1,476	0	0	1	52,878	1	600	14	54,954	14	54,954
Clean Rivers	13	1,220	0	0	0	0	0	0	13	1,220	13	1,220
Clean Seas	9	980	2	56	1	7,840	0	0	12	8,876	12	8,876
Clean Sound	2	215	0	0	2	18,480	0	0	4	18,695	4	18,695
EARL	6	8,400	12	143	0	0	0	0	18	8,543	18	8,543
Foss Environ.	1	381	19	461	11	197,309	0	0	31	198,151	31	198,151
IT Corp									0	0		
MSRC	14	7,000	0	0	0	0	0	0	14	7,000	14	7,000
OSRL	13	3,265	5	198	0	0	0	0	18	3,463	18	3,463
NRC	0	0	0	0	0	0	0	0	0	0	0	0
SeaPro	19	5,021	4	316	3	21,000	0	0	26	26,337	26	26,337
SupSalv ANC	7	20,619	7	119	0	0	0	0	14	20,738	14	20,738
SupSalv Outside	22	46,564	0	0	0	0	0	0	22	46,564	22	46,564
Unitech	0	0	0	0	0	0	0	0	0	0	0	0
USCG AK	1	666	12	286	0	0	0	0	13	952	13	952
USCG Outside	68	42,732	0	0	0	0	0	0	68	42,732	68	42,732
VECO	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal:	206	148,253	136	5,103	35	315,071	1	677	379	469,103	379	469,103

Primary All:	342	153,356
Primary non- Gov.	244	42,775
	No.	Capacity
Available in 1996:	294	82,049

Gain/Loss 1996 to 2000

	No.	Capacity
Primary All:	48	71,307
Primary non- Gov.	-50	-39,274

% Gain/Loss 1996 to 2000

	%	%
Primary All:	16	87
Primary non- Gov.	-17	-48

Prim = Primary Storage Capacity Second. = Secondary Storage Capacity (large barges) In Vessel = Storage capacity internal to the response vessel. Verification = Sum of individual values to confirm Total based on individual worksheets.

		<u> </u>										
	Required	Available from Id 1996	entified Sources	Excess or (-,) Shortfall 2000							
Boom (ft)	<u> </u>	1000	2000	1000	2000							
	154,000	667,700	900.785	513,700	746,785							
Skimmers (number)		,	,	0.0,100								
TOTAL Skimmers (, 1996 Study, v	alues of Append	.6 x Append. 8)									
, , , , , , , , , , , , , , , , , , ,	84	452	649	368	565							
DESIRABLE Skimm	ners (1996 da	ta provided in tex	xt of 1996 Study)									
	84	206		122								
SUITABLE Skimme	rs (1996 data	provided in text	of 1996 Study)									
	84	431		347								
DESIRABLE ADJU	STED (% rele	ase/ elimination	of non-West Coast	Skimmers (199	6 Study text)							
	84	117		33								
SUITABLE ADJUST	ED (% relea	se/ elimination of	f non-West Coast S	Skimmers (1996	Study text)							
	84	279		195								
Storage (number)												
TOTAL Storage (19	96 Study, val	ues of Append.6	x Append. 8)									
	168	294	379	126	211							
PRIMARY INCL. <9	5b Portable S	Storage (1996 va	lues listed in Study	[,] text).								
	168	209	342	41	174							
PRIMARY >95b Po	rtable Storage	e (1996 values lis	sted in Study text).									
	168	193	206	-25	38							
PRIMARYADJUST	ED INCL.<95	b (% release/ elir	mination of non-We	st Coast (1996	values=Study tex							
	168	133	342	-35	174							
PRIMARYADJUST	ED >95b (% r	elease/ eliminatio	on of non-West Co	ast (1996 values	s from Study text							
	168	80	206	-88	38							
SECONDARY	·											
					35							
	Available		AlaskaTanker		Polar Tankers		Chevron		SR/M		Tesoro	
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Organization	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
ACS		314,368		314,368		314,368		314,368		314,368		314,368
AK Poll. Contr.		0				0						0
Burrard		8,200										8,200
CISPRI		81,250						81,250				81,250
Clean Bay		6,749		6,749		6,749				6,749		6,749
Clean Coastal W.		14,501		14,501		14,501				14,501		
Clean Pacific		25,000				25,000						25,000
Clean Rivers		19,908				19,908						19,908
Clean Seas		24,230								24,230		24,230
Clean Sound		39,100		39,100		39,100						39,100
EARL		29,791		29,791								
Foss Environ.		94,120				94,120						94,120
IT Corp		11,600						11,600				
MSRC		13,000		13,000				13,000		13,000		13,000
NRC		23,100				23,100						23,100
OSRL		45,322		45,322		45,322				45,322		
SeaPro		32,760										32,760
SupSalv ANC		28,300										
SupSalv Outside		40,350										
Unitech		1,600				1,600						
USCG AK		32,000										
USCG Outside		15,536										
VECO		0				0						
Subtotal:		900,785		462,831		583,768		420,218		418,170		681,785
Without ACS:	r	586 417		148 463		260.400		105 850		103 802		267 /17

	Available		AlaskaTanker		Polar Tankers		Chevron		SR/M		Tesoro	
Organization	No	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
ACS	208	122.328	208	122.328	208	122.328	208	122.328	208	122.328	208	122.328
AK Poll. Contr.	0	0		,	0	0		,		,	0	0
Burrard	1	139									1	139
CISPRI	48	78,667					48	78,667			48	78,667
Clean Bay	4	1,792	4	1,792	4	1,792			4	1,792	4	1,792
Clean Coastal W.	5	11,796	5	11,796	5	11,796			5	11,796		
Clean Pacific	11	79,860			11	79,860					11	79,860
Clean Rivers	24	34,933			24	34,933					24	34,933
Clean Seas	14	35,480							14	35,480	14	35,480
Clean Sound	12	29,005	12	29,005	12	29,005					12	29,005
EARL	35	106,909	35	106,909								
Foss Environ.	49	49,265			49	49,265					49	49,265
IT Corp	9	352					9	352				
MSRC	8	60,959	8	60,959			8	60,959	8	60,959	8	60,959
NRC	9	108,966			9	108,966					9	108,966
OSRL	94	95,321	94	95,321	94	95,321			94	95,321		
SeaPro	18	32,005									18	32,005
SupSalv ANC	20	14,810										
SupSalv Outside	25	34,824										
Unitech	1	9			1	9						
USCG AK	6	1,440										
USCG Outside	50	150,850										
VECO	0	0			0	0						
				100 112			0				105	
Subtotal:	649	1,049,709	365	428,110	416	533,275	273	262,306	332	327,676	405	633,397
Without ACS	441	007 201	157	205 702	200	410 047	65	120.079	104	205 249	107	E11 060
Without ACS:	44	921,30 I	107	300,762	200	410,947	00	139,970	124	200,040	197	511,009

Table A2-8a. All Pri	Table A2-8a. All Primary Storage Units (less and greater than 95 barrels) - Summary by Company.											
	Available		AlaskaTanker		Polar Tankers		Chevron		SR/M		Teso	oro
Organization	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
ACS	54	4,619	54	4,619	54	4,619	54	4,619	54	4,619	54	4,619
AK Poll. Contr.	0	0			0	0					0	0
Burrard	7	301									7	301
CISPRI	25	7,862					25	7,862			25	7,862
Clean Bay	4	317	4	317	4	317			4	317	4	317
Clean Coastal W.	5	140	5	140	5	140			5	140		
Clean Pacific	12	1,476			12	1,476					12	1,476
Clean Rivers	13	1,220			13	1,220					13	1,220
Clean Seas	11	1,036							11	1,036	11	1,036
Clean Sound	2	215	2	215	2	215					2	215
EARL	18	8,543	18	8,543								
Foss Environ.	20	842			20	842					20	842
IT Corp	0	0					0	0				
MSRC	14	7,000	14	7,000			14	7,000	14	7,000	14	7,000
NRC	0	0			0	0					0	0
OSRL	18	3,463	18	3,463	18	3,463						
SeaPro	23	5,337							23	5,337	23	5,337
SupSalv ANC	14	20,738										
SupSalv Outside	22	46,564										
Unitech	0	0			0	0						
USCG AK	13	952										
USCG Outside	68	42,732										
VECO	0	0			0	0						
Subtotal:	342	153,356	115	24,296	128	12,291	93	19,481	111	18,448	184	30,224
Without ACS:	288	148,737	61	19,677	74	7,672	39	14,862	57	13,829	130	25,605

Table A2-8b. Primary Storage (>94 barrels) - Summary by Company.

	Avai	able	Alaska	aTanker	Polar	Tankers	Chev	/ron	SR/	M	Tesoro	
Organization	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
ACS	10	2,381	10	2,381	10	2,381	10	2,381	10	2,381	10	2,381
AK Poll. Contr.	0	0									0	0
Burrard	1	98									1	98
CISPRI	7	7,037					7	7,037			7	7,037
Clean Bay	2	198	2	198	2	198			2	198	2	198
Clean Coastal W.	0	0	0	0	0	0			0	0		
Clean Pacific	12	1,476			12	1,476					12	1,476
Clean Rivers	13	1,220			13	1,220					13	1,220
Clean Seas	9	980							9	980	9	980
Clean Sound	2	215	2	215	2	215					2	215
EARL	6	8,400	6	8,400								
Foss Environ.	1	381			1	381					1	381
IT Corp	0	0					0	0				
MSRC	14	7,000	14	7,000			14	7,000	14	7,000	14	7,000
NRC	0	0			0	0					0	0
OSRL	13	3,265	13	3,265	13	3,265			13	3,265		
SeaPro	19	5,021							19	5,021	19	5,021
SupSalv ANC	7	20,619										
SupSalv Outside	22	46,564										
Unitech	0	0			0	0						
USCG AK	1	666										
USCG Outside	68	42,732										
VECO	0	0			0	0						
Subtotal:	206	148,253	47	21,459	53	9,136	31	16,418	67	18,845	89	26,006
Without ACS:	196	145,872	37	19,078	43	6,755	21	14,037	57	16,464	79	23,626

	Avail	able	AlaskaTanker		Polar		Chevron		SR/M		Tesoro	
Organization	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
ACS	44	2,238	44	2,238	44	2,238	44	2,238	44	2,238	44	2,238
AK Poll. Contr.	0	0									0	0
Burrard	6	203									6	203
CISPRI	18	825					18	825			18	825
Clean Bay	2	119	2	119	2	119			2	119	2	119
Clean Coastal W.	5	140	5	140	5	140			5	140		
Clean Pacific	0	0			0	0					0	0
Clean Rivers	0	0			0	0					0	0
Clean Seas	2	56							2	56	2	56
Clean Sound	0	0	0	0	0	0					0	0
EARL	12	143	12	143								
Foss Environ.	19	461			19	461					19	461
IT Corp	0	0					0	0				
MSRC	0	0	0	0			0	0	0	0	0	0
NRC	0	0			0	0					0	0
OSRL	5	198	5	198	5	198			5	198		
SeaPro	4	316							4	316	4	316
SupSalv ANC	7	119										
SupSalv Outside	0	0										
Unitech	0	0			0	0						
USCG AK	12	286										
USCG Outside	0	0										
VECO	0	0			0	0						
Subtotal:	136	5,103	68	2,837	75	3,155	62	3,063	62	3,067	95	4,218
Without ACS:	92	2.865	24	599	31	917	18	825	18	829	51	1,980

	%	Ocean Boom	Nearshore	Harbor/River	Fire Boom	Total
	Avail.	(>42")	(18-42")	(<18")		
Organization		Feet	Feet	Feet	Feet	Feet
ACS	100	9,800	73,441	212,025	19,102	314,368
AK Poll. Contr.	100	0	0	0	0	0
Burrard	10	600	7,600	0	0	8,200
CISPRI	100	30,650	32,700	11,900	6,000	81,250
Clean Bay	33	1,601	3,168	1,980	0	6,749
Clean Coastal W.	50	3,975	10,526	0	0	14,501
Clean Pacific	100	9,000	16,000	0	0	25,000
Clean Rivers	36	0	18,108	1,800	0	19,908
Clean Seas	100	7,730	16,500	0	0	24,230
Clean Sound	50	0	39,100	0	0	39,100
EARL	100	9,176	18,445	2,170	0	29,791
oss Environ.	80	0	10,800	83,320	0	94,120
T Corp	80	0	11,600	0	0	11,600
MSRC	100	0	13,000	0	0	13,000
OSRL	100	8,680	6,820	29,822	0	45,322
NRC	100	0	23,100	0	0	23,100
SeaPro	100	600	0	32,160	0	32,760
SupSalv ANC	100	3,600	12,800	11,900	0	28,300
SupSalv Outside	100	40,000	0	0	350	40,350
Unitech	20	0	0	1,600	0	1,600
JSCG AK	100	5,000	12,000	15,000	0	32,000
JSCG Outside	100	15,536	0	0	0	15,536
/ECO	100	0	0	0	0	0
Subtotal:		145,948	325,708	403,677	25,452	900,785