



# Quarterly Provisional Data Release OIL AND HAZARDOUS SUBSTANCE RELEASES

PREVENTION AND EMERGENCY RESPONSE PROGRAM  
DIVISION OF SPILL PREVENTION AND RESPONSE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JULY 1 - SEPTEMBER 30, 1997

## SIGNIFICANT RESPONSES

### ARCO Kuparuk

July 15, 1997

An estimated maximum of 2,000 gallons of crude oil leaked from several holes caused by external corrosion of a pipeline. Approximately 1250 gallons of crude was recovered. Potential impacts to tundra due to foot traffic was a concern. ARCO submitted a weed burner remedial treatment plan for removing the residual crude off the grasses to prevent wildlife contamination.



### Elmendorf Air Force Base Jet Fuel Spill

July 17, 1997

About 13,600 gallons of JP8 escaped from 6" fuel line, buried 4-6 feet, when it ruptured during fueling operations. About 3000 gallons was recovered. About 50 yards of surrounding soils were excavated stockpiled on-site.



### Asphalt Emulsion CRS-2 Spill, Haines City Dock

August 18, 1997

Approximately 2,000 gallons of CRS-2 asphalt emulsion was spilled when a 2,000-gallon tank dropped off a platform when a chain broke while it was being lifted (see photo above). Of the 2,000 gallons spilled, somewhere between 1,000 and 1,800 gallons went into the water, the remainder stayed on the barge. Spilled material was cleaned up by divers.



### Ninilchik River Sulfur Spill

September 16, 1997

Along the Sterling Highway, a container of sulfur fell off a transport truck and spilled along the bank into the Ninilchik River. The container held approximately 17 tons of sulfur. Two small areas of sulfur ignited, producing potentially toxic fumes and area residents were evacuated as a safety precaution.



### North Tongass Highway Diesel Spill, Ketchikan

September 20, 1997

A fuel delivery truck drove away from the Petro Alaska bulk fuel plant on Tongass Avenue with the fuel line still connected to the manifold. Approximately 1,200 gallons of #2 Diesel fuel spilled from the truck as it drove North on North Tongass Highway to Ward Cove Cannery.



# SPILL NEWS

## DRILLS

On September 24 Southeast Alaska Response Team (SART) observed a fuel transfer from the 500-foot tanker Kinugawa to the Delta Western storage facility at Haines. The 107,000-barrel-capacity tanker, new to Alaska, is seeking U.S. Coast Guard approval to offload fuel at facilities here. Since the Delta Western facility in Haines could accommodate only half its cargo, a barge was also filled at the Delta Western dock. The Southeast Alaska Petroleum Resource Organization (SEAPRO) conducted a deployment drill during the transfer. (9/29/97)



## SPILL RESPONSE PREPAREDNESS

Department staff made final packing configurations for the five connexes which will be shipped to Dillingham, Mountain Village, Iliamna, Aniak, and Bethel in August. Staff also met with Philips Environmental personnel who will arrange transportation through available barge and trucking companies. (7/22/97)

On August 27 staff met with the Naknek Nearshore Workgroup to discuss the response equipment package for that area. A list of considerations and objectives was given to the group before a decision will be made. The workgroup will meet again on September 3 after a local response drill involving Delta Western and Naknek Electric Association. They will be submitting their draft equipment recommendations to DEC staff by September 26. (9/3/97)

Staff met with representatives of the Northern Southeast Local Emergency Planning Committee (LEPC) to discuss specifications and design for a nearshore response equipment package in Haines. Initial discussion and analysis by the LEPC members focused on a large response vessel but a total response capability had not been targeted or researched. They will be considering the overall response capability desired for the area and submit a more comprehensive proposal. 8/5/97



## PREVENTION

CART staff traveled with U.S. Coast Guard (USCG) personnel to the communities of Togiak, Dillingham, Ekuk, Clark's Point, Ekwok, Koliganik, and New Stuyahok. The field visits enabled staff to examine fuel storage facilities, and review the spill pre-

vention and control capabilities in each locale. The USCG/DEC team inspected village power generation facilities, native corporation tank farms, and school district tank farms. Several canneries in the area were also inspected. State oil spill reporting placards, PERP brochures and Environmental Protection Agency (EPA) Spill Preparedness Control and Countermeasure (SPCC) regulations and instructions were left at facilities that did not already have SPCC plans in place. (7/15/97)



## OIL-RELATED RESEARCH

Central Alaska Response Team (CART) staff participated in the AEA sea trial which was conducted in the North Sea, approximately 30 miles offshore of Lowestoft, England. The sea trial consisted of a series of four major experiments which demonstrated the possibility to successfully disperse both high viscosity crude oil emulsions (Forties Blend crude oil and Alaska North Slope (ANS) crude oil) and a marine bunker fuel oil emulsions. In-situ monitoring and remote sensing methods were used to detect the effect of the dispersants. Corexit 9500 was effective on three of the slicks, which included the ANS slick. The dispersant Dasic Slickgone NS was used on one of the Forties Blend slicks. (9/29/97)



### TELL US WHAT YOU THINK...

ABOUT THE REVISED AND EXPANDED SPILL SUMMARY. SEND YOUR COMMENTS TO CAMILLE STEPHENS:

BY EMAIL:

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OR BY MAIL:

410 WILLOUGHBY AVE., JUNEAU, AK 99801

# SPILLS DIGEST

*Most common spill substances, causes and sources during the quarter. Abbreviations refer to the categories used for graphs.*

## TOP 10 SUBSTANCES

Product Name	Count	Gallons	Pounds
1 Diesel (REF)	211	42,681	
2 Hydraulic Oil (REF)	83	1,186	
3 Other/Unknown (HS)	68	3,204	140,001
4 Aviation Fuel (REF)	59	21,215	
5 Gasoline (REF)	34	1,205	
6 Engine Lube Oil (REF)	28	97	
7 Waste Oil (REF)	17	199	
8 Crude (CRU)	16	3,388	
9 Ethylene Glycol (HS)	15	853	
10 Produced Water (HS)	9	1,947	



## TOP 10 SPILL CAUSES

Product Name	Count	Gallons	Pounds
1 Leak, Other (MECH)	132	12,856	1,461
2 Other/Unknown (OTH)	97	6,093	101
3 Tank Overfill (HUM)	79	6,234	
4 Line Ruptured (MECH)	53	7,366	114
5 Valve Left Open (HUM)	30	3,221	50
Valve Faulty (MECH)	30	1,183	500
6 Intentional Release (HUM)	21	5,182	
7 Cargo Not Secured (HUM)	17	363	
8 Corrosion (MECH)	16	3,862	
9 Seal Failure (MECH)	15	14,421	
10 Line Disconnected (MECH)	14	318	260
Overturn/Capsize (ACC)	14	14,338	140,000



## TOP 10 SPILL SOURCES

Product Name	Count	Gallons	Pounds
1 Other/Unknown (OTH)	109	17,061	1,200
2 Industrial Vehicle (TRA)	63	1,251	140,000
3 Truck (TRA)	52	2,662	34,000
4 Home/Office/Business (STO)	51	3,226	520
5 Aircraft (TRA)	31	391	
6 Fishing Vessel (VES)	30	2,367	
7 Auto (TRA)	29	105	
Refinery (STO)	29	2,707	711
8 Tank Farm (STO)	24	3,096	
9 Drum/s (STO)	22	498	
Home Heating Tank (STO)	22	1,900	
10 Pipeline (TRA)	20	8,447	114

# 1998 CALENDAR

## DRILLS

*Note: The drills listed on this schedule are those which the DEC staff are currently planning to participate in (budget and workload permitting). An asterisk (\*) denotes a major drill.*

- March 1998:** Canadian CG/USCG Beaufort Sea Planning Meeting  
**April 1998:** USCG Cruise Ship Disaster Training  
**Aug 6, 1998:** Mutual Aid Drill; North Slope\*  
**Fall 1998:** PWS Tanker Drill\*



## MEETINGS

- January 7:** SERC meeting, Kenai  
**January 7-8:** Sea Ice Symposium; University of Alaska, Anchorage  
**January 14:** Industry/Agency North Slope Oil Spill Response Steering Committee  
**January 21:** DEC/USCG On-Scene Coordinators Work Group Meeting, Anchorage  
**January 27:** SEAPRO Unified Plan review session, Juneau  
**January 29-30:** EXXON VALDEZ Oil Spill Restoration Workshop, Anchorage

## DEFINITIONS & ABBREVIATIONS

**Crude Oil (CRU):** unrefined petroleum products.

**Refined Oil (REF):** refined petroleum products, including gasoline, diesel, petroleum-based lubricants, oily waste, kerosene, and aviation fuel.

**Hazardous Substance (HS):** any substance not included in the above definitions that is potentially harmful to humans or the environment when it is released to land, air, or water.

*Note: Releases are reported to the Department in Gallons (gal) or Pounds (lbs). However, in order to summarize data in bar graphs, releases reported in gallons are converted to pounds using 8.33 as a conversion factor.*

**PLEASE NOTE...** THIS REPORT IS BASED ON PROVISIONAL SPILL DATA. READERS SHOULD BE AWARE THAT MINOR DISCREPANCIES IN THE DATA MAY EXIST.

**TO SUBSCRIBE...** TO THE "QUARTERLY SUMMARY OF OIL AND HAZARDOUS SUBSTANCE RELEASES," SEND YOUR NAME AND ADDRESS TO: CAMILLE STEPHENS, 410 WILLOUGHBY AVE., JUNEAU, AK 99801, OR EMAIL:

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