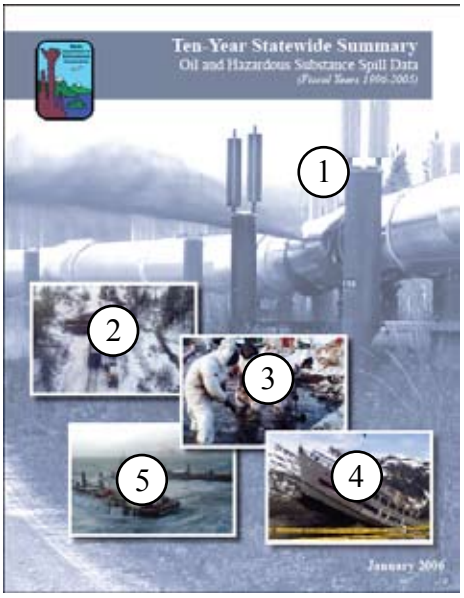
10-Year Statewide Summary

Oil and Hazardous Substance Spill Data

(July 1, 1995 - June 30, 2005)

June 2007

1. TAPS Bullet Hole Incident, 10/04/2001
2. Canyon Derailment, 10/31/1999
3. M/V Kuroshima Grounding, 11/26/1997
4. Wilderness Adventurer Grounding, 06/12/1999
5. M/V Selendang Ayu Grounding, 12/07/2004



DISCLAIMER

The data presented and summarized in this report is provisional only due to ongoing quality assurance/quality control (QA/QC) on the part of data entry staff and primary users. Additional on-going reviews will further refine the accuracy of the data. As an example, a spill from an unregulated vehicle at a regulated facility may have previously been entered as a spill at a regulated facility. This and other types of data entry issues are being addressed to ensure further data entry problems are precluded.

Ten Year Statewide Summary
Oil and Hazardous Substance Spill Data
(July 1, 1995 - June 30, 2005)

prepared by

Alaska Department of Environmental Conservation
Division of Spill Prevention and Response
June 2007

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Introduction

In November 2003, the Alaska Department of Environmental Conservation's (ADEC) Division of Spill Prevention and Response published a provisional report titled, "Statewide Summary of Oil and Hazardous Substance Spill Data" for the seven-year period from July 1, 1995 to June 30, 2002. The report was considered provisional as there were a few quality assurance/quality control (QA/QC) issues associated with the information received and entered into the Statewide SPILLS database. Statistical analysis was used to measure frequency and distribution. Frequency counts and distribution were applied to qualitatively understand and identify general spill trends.

This spill data analysis report provides findings related to spills reported to ADEC for the 10-year period extending from July 1, 1995 to June 30, 2005 (State Fiscal Year (FY) 1996-2005). A 'static' data set was established which allowed staff to carefully review and QA/QC data. The spill data is used by ADEC staff to highlight any significant trends and focus prevention and outreach efforts to educate industry and the general public, as well as to validate budget submissions and resource allocation through a risk-based decision process. As an example, ADEC staff keyed on a noticeable trend in home heating oil tank spills and launched a public outreach and awareness program in order to educate homeowners on spill prevention measures. A similar outreach program has been initiated to reduce the number of spills from fishing vessels and at marinas.

The report also enables ADEC staff to gain a better understanding of petroleum and hazardous substances entering the environment from petroleum extraction, transportation, and consumption by human activity. Reported spills include those entering marine, freshwater, wetlands, land, air and groundwater. Over this 10-year period, the ADEC received an average of 2,301 spill reports annually.

The SPILLS database is linked to the ADEC Industry Preparedness Program Contingency Plan database and the Contaminated Sites database. The first linkage allows for the ability to analyze spill data for facilities and vessels regulated by the State of Alaska. Figure 1 illustrates the major components of Alaska's oil production, transportation and storage system. Regulated facilities spill data was reviewed and QA/QC'ed by Industry Preparedness staff to further determine whether a spill occurred from a regulated or unregulated component at a facility. Section II provides a summary of spills from regulated versus unregulated components. The overall goal is to identify areas where additional spill prevention efforts are needed. Findings can also be used to update regulations. The seven-year provisional spill data report exposed an increase of process water spills from flow lines on the North Slope and Cook Inlet. Flow lines carry highly corrosive mixtures of oil, gas and water. As a result, the Department adopted corrosion control regulations for flow lines.

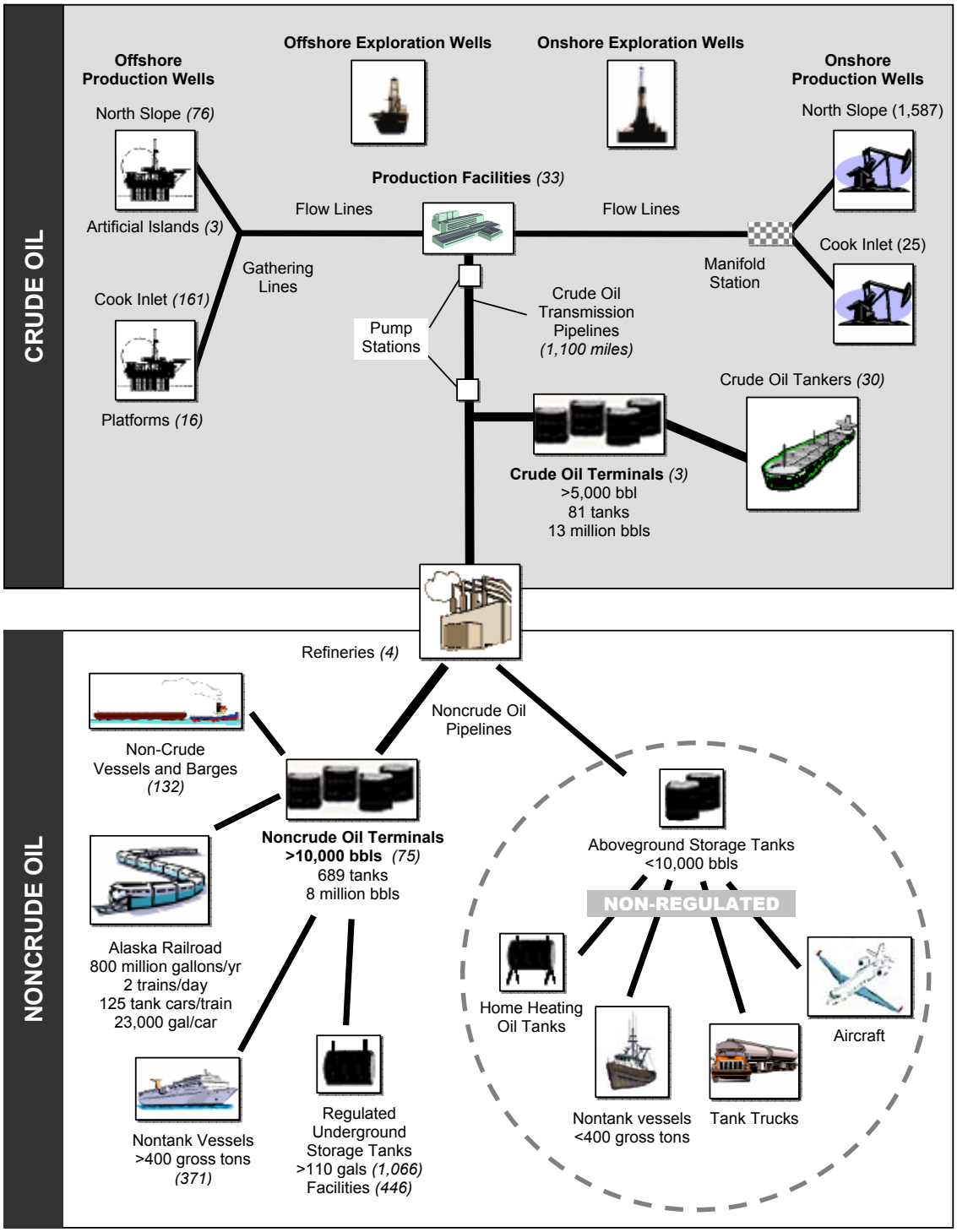
The second linkage to the Contaminated Sites database provides the capability to track spills after the initial response and cleanup/recovery operation is complete and through the contaminated sites management and cleanup process. This linkage also provides an understanding on whether new releases are contributing to chronic long-term contamination in the State. The seven-year provisional report did not examine the Program relationships. However Section III of this report provides a brief summary of spills transferred to the Contaminated Sites Program.

In general, data analysis and interpretation will assist the ADEC with the development of prevention program initiatives for regulated and unregulated entities. The comprehensive analysis will also assist in identifying facilities where regulatory inspections and exercises may be conducted to prevent future spills. Interpreting the data geographically will aid governmental entities to focus on communities where prevention, response, and preparedness enhancements could be implemented to mitigate spill impacts.

Figure 1

Alaska's Oil Production, Transportation and Storage Network

The facilities designated as "non-regulated" are not required to have a state-approved oil discharge prevention and contingency plan. () indicates number of facilities.



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Additional spill data summary reports will be published under separate cover and will be available on the ADEC website at: http://www.dec.state.ak.us/spar/perp/data.htm

These include the following reports:

- Spill Data Summary by Subareas of the State
- Spill Data Summary by Substance
- Summary of Spills from Regulated Facilities
- Summary of Spills from Mining Facilities
- Summary of Spills from Home Heating Oil Tanks
- Summary of Spills from Unregulated Vessels and Harbors/Ports/Marinas
- Summary of Spills from Gas Stations
- Summary of Spills from Vehicle Rollovers

Background

Petroleum and chemical consumption by human-related activities can result in spills to the environment. Damage from leaks in the system could have either chronic or catastrophic economic and environmental impacts.

Alaska currently produces approximately one million barrels per day of crude oil after peaking in 1981 as the nation's biggest oil producing state at two million barrels per day. Oil and gas exploration began early in Alaska's history on the North Slope and in Cook Inlet. The discovery of world class oil reserves at Prudhoe Bay presented many new challenges for the state. The recent significant crude oil price increase has also spurred renewed exploration efforts in Alaska. The oil transport and delivery system in Alaska includes drilling platforms/well sites, sub-sea and terrestrial pipelines, tanker terminals, tanker transportation, refinery and oil storage facilities, and fuel barges. Alaska has drilling operations both onshore and offshore. Offshore drilling occurs in both the arctic and sub-arctic regions, in ice-infested waters or seasonally ice-infested waters, and in areas of extreme tidal currents.

The Port of Valdez is one of the largest ports in the nation in terms of total crude oil tonnage transported from the region. There are 400-500 tanker calls at the Alyeska Valdez Marine Terminal in any given year with ships ranging in size from 46,094 DWT (343,000 bbl) to 211,469 DWT (1,485,000 bbl) capacity.

Loading operations at the terminals have been very successful in terms of minimizing oil spillage into the marine environment. There is always a risk of a large spill occurring during loading operations, and there is risk of a spill associated with the large tank storage facilities located at the terminals. The crude oil tanker transportation system in Alaska has received a great deal of attention following the T/V Exxon Valdez oil spill. The Oil Pollution Act of 1990 significantly enhanced prevention and response requirements for tank vessels and requires all single-hulled tankers be replaced with double-hulled tankers by the year 2010.

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[1]Source: Alaska Oil and Gas Report, December 2004. Department of Natural Resources, Division of Oil and Gas.

Definitions and Classifications

Accidents (Cause): Spills caused by accidents may be categorized as follows: collision/allision; derailment; grounding; rollover/capsize; and well blow-out.

Causes: See Appendix A, for the cause classification scheme used in the SPILLS Database.

Crude Oil: Unrefined liquid petroleum, ranging in gravity from 9° API to 55° API and in color from yellow to black. May have a paraffin, asphalt, or mixed base. If the oil contains a sizable amount of sulfur or sulfur components, it is called a sour crude; if it has little or no sulfur, it is called a sweet crude. In addition, crude oil may be referred to as heavy or light, according to API gravity, the lighter oil having the higher gravities.

Diesel Fuel: A light hydrocarbon mixture for diesel engines, similar to furnace fuel oil; it has a boiling range just above that of kerosene.

Exploration Facility: means a platform, vessel, or other facility used to explore for hydrocarbons in or on the waters of the state or in or on land in the state; the term does not include platforms or vessels used for stratigraphic drilling or other operations that are not authorized or intended to drill to a producing formation.

Extremely Hazardous Substance (EHS): Although there is no definition for extremely hazardous, the Senate Report on the Clean Air Act provides criteria EPA may use to determine if a substance is extremely hazardous. The report expressed the intent that the term "extremely hazardous substance" would include any agent "which may or may not be listed or otherwise identified by any Government agency which may as the result of short-term exposures associated with spills to the air cause death, injury or property damage due to its toxicity, reactivity, flammability, volatility, or corrosivity". The term "EHS" otherwise includes substances listed in the appendices to 40 CFR part 355, Emergency Planning and Notification.

Facility: means any offshore or onshore structure, improvement, vessel, vehicle, land, enterprise, or endeavor. See Appendix A for the Facility Classification scheme used in the SPILLS Database.

Gasoline: A volatile, flammable liquid hydrocarbon refined from crude oils and used universally as a fuel for internal-combustion, spark ignition engines.

Hazardous Substance: means (A) an element or compound that, when it enters into or on the surface or subsurface land or water of the state, presents an imminent and substantial danger to the public health or welfare, or to fish, animals, vegetation, or any part of the natural habitat in which fish, animals, or wildlife may be found; or (B) a substance defined as a hazardous substance under 42 U.S.C. 9601-9657 (Co mprehensive Environmental Response, Compensation, and Liability Act of 1980); "hazardous substance" does not include uncontaminated crude oil or uncontaminated noncrude (refined) oil in an amount of 10 gallons or less.

Human Factors (Cause): Spills caused by human factors may be categorized as follows: bilge discharge; cargo not secured; human error; intentional release; overfill; sabotage/vandalism; and sinking.

Nontank Vessel: means a self-propelled watercraft of more than 400 gross registered tons; in this paragraph, "watercraft" includes commercial fishing vessels, commercial fish processor vessels, passenger vessels, and cargo vessels, but does not include a tank vessel, oil barge or public vessel.

Noncrude Oil: A petroleum product derived from crude oil.

Oil: means petroleum products of any kind and in any form, whether crude, noncrude (refined), or a petroleum by-product, including petroleum, fuel oil, gasoline, lubricating oils, oily sludge, oily refuse, oil mixed with other wastes, liquefied natural gas, propane, butane, and other liquid hydrocarbons regardless of specific gravity.

Oil Barge: means a vessel which is not self-propelled and which is constructed or converted to carry oil as cargo in bulk.

Oil Terminal Facility: means an onshore or offshore facility of any kind, and related appurtenances, including but not limited to a deepwater port, bulk storage facility, or marina, located in, on, or under the surface of the land or waters of the state, including tide and submerged land, that is used for the purpose of transferring, processing, refining or storing oil; a vessel, other than a nontank vessel, is considered an oil terminal facility only when it is used to make a ship-to-ship transfer of oil; and when it is traveling between the place of the ship-to-ship transfer of oil and an oil terminal facility.

Other (Cause): Spills resulting from "other" causes may be categorized as follows: explosion; external factors; and other causes.

Other (Facility Classification): "Other" facilities listed in the ADEC SPILLS Database are classified as follows: drug lab; firing range; landfill/dump; other; salvage/wrecking yard; amd unknown.

Pipeline: means the facilities, including piping, compressors, pump stations, and storage tanks, used to transport crude oil and associated hydrocarbons between production facilities or from one or more production facilities to marine vessels.

Process Water (Oil Exploration and Production Operations): Process water includes seawater (and occasionally freshwater) and produced water. Seawater is injected into a formation to pressurize the reservoir and force the oil toward the oil production wells. Gelled water is seawater and freshwater that is mixed with a gelling substance to increase the viscosity of the fluid for a number of purposes. Seawater is also used to maintain the existing wells or to detect leaks in pipelines. Produced water is the water mixture consisting of oil, gas, and sand that is pumped from oil production wells. The percentage of crude oil occurring in process water can vary somewhat based on the source of the spill.

Process Water (Mining Operations): Process water for mining operations include water taken from tailing ponds for the milling process (reclaim water), water that has been through the water treatment plant but not the sand filter (process water), water that has been through both the water treatment and sand filter (discharge water), water mixed with ground ore materials (slurry) or water used in the milling and product recovery process (process solution water).

Production Facility: means a drilling rig, drill site, flow station, gathering center, pump station, storage tank, well, and related appurtenances on other facilities to produce, gather, clean, dehydrate, condition, or store crude oil and associated hydrocarbons in or on the water of the state or on land in the state; and gathering and flow lines used to transport crude oil and associated hydrocarbons to the inlet of a pipeline system for delivery to a marine facility, refinery, or other production facility.

Public Vessel: means a vessel that is operated by and is either owned or bareboat chartered by the United States, a state or a political subdivision of that state, or a foreign nation, except when the vessel is engaged in commerce.

Railroad Tank Car: means rolling stock used to transport oil in bulk as cargo by rail.

Storage (Facility Classification): Storage facilities listed in the ADEC SPILLS Database are classified as follows: cannery; farm/aquaculture; gas station; laundry service; log processing; logging operation; maintenance yard/shop; mining operation; crude oil terminal; noncrude oil terminal; power generation; refinery operation; residence; school; telecommunications; and water/wastewater facility.

Structural/Mechanical (Cause): A structural/mechanical cause may include the following: containment/overflow; corrosion; crack; equipment failure; erosion; gauge/site glass failure; hull failure; leak; line failure; puncture; seal failure; support structure failure; tank failure; tank support structure failure; valve failure; and vehicle leaks.

Tank Vessel: means a self-propelled waterborne vessel that is constructed or converted to carry liquid bulk cargo in tanks and includes tankers, tankships, and combination carriers when carrying oil; the term does not include vessels carrying oil in drums, barrels, or other packages, or vessels carrying oil as fuel or stores for that vessel.

Train: means connected rolling stock operated as a single moving vehicle on rails; for purposes of this paragraph, "connected rolling stock" includes railroad tank cars.

Transportation (Facility Classification): Transportation facilities listed in the ADEC SPILLS Database are classified as follows: air transportation (aircraft); air transportation (airport/airfield); harbor/port facility; oil exploration (offshore); oil exploration (onshore); oil production (offshore); oil production (onshore); flow lines; field processing; railroad operation; transmission pipeline; and vehicle.

Vessel (Facility Classification): Vessels listed in the ADEC SPILLS Database are classified as follows: Vessels 400 gross tons (GT) or more (includes barges, cargo vessels, other vessels, fishing vessels, passenger vessels, and tankers); Vessels less than 400 GT (includes cargo vessels, other vessels, fishing vessels and passenger vessels).

Vessel: includes tank vessels, oil barges, and nontank vessels.

Sources:

Alaska Statutes (AS 46, Current Edition)

A Dictionary of Petroleum Terms (Third Edition), The University of Texas at Austin, Petroleum Extension Service, 1983

U.S. EPA Chemical Emergency Preparedness and Prevention Office (CEPPO) website

ADEC/SPAR Classification Scheme

Statewide Hazmat Commodity Flow Study, June 2005

Statewide Oil and Hazardous Substance Inventory, Tier Two Data Summary Report, January 2005

Executive Summary

The Department of Environmental Conservation (DEC), Prevention & Emergency Response Program (PERP) has finalized a 10-year statewide oil and hazardous substance spill summary report which spans the period of July 1, 1995 to June 30, 2005. On average DEC receives 2,300 spill reports per year. Over the past few years there's been an overall decrease in the number of spills reported.

During the 10-year period approximately 5.6 million gallons of oil, hazardous substances and process water spilled, yet 85% has been cleaned up or removed from the environment. Essentially, 99% of the spills reported are cleaned up quickly during the emergency response phase with only 1% being transferred to DEC's Contaminated Sites program for long term cleanup and monitoring.

Prominent Conclusions

Spills from state regulated facilities such as tank vessels, oil barges, and pipelines occur much less frequently (26%) than spills from unregulated facilities (74%).

Unregulated facilities were responsible for two-thirds of the total volume spilled statewide. They also had 11% fewer spills and spilled 6% less in total volume over the last five years of this reporting period.

Spill Data Highlights

- ***There were 50 spills of 10,000 gallons or greater in size and 8 spills of 100,000 gallons or greater in size.***

  Petroleum products make up 84% of the spills with noncrude oil spills (diesel, gasoline) accounting for 80% and crude oil 4%. Sixty percent of the spills reported are small (<10 gallons) and DEC is beginning to see a decrease in the larger spills ranging from 10-99 gallons and 100 gallons or greater.

- ***There were 23 significant noncrude oil spills, each greater than 10,000 gallons.***

  The largest spill was the M/V Selendang Ayu (335,732 gallons) which also contributed to the significant spike in total volume released for that specific reporting year. Overall, the number of noncrude spills has decreased by 6% compared to the previous 5-year period.

- ***During the last five years of the study period, the number of crude oil spills decreased by 25%.***

  Tank vessels shipping crude from Prince William Sound and Cook Inlet had an exceptional record, in that this activity only accounted for 1% of the spills reported and less than 1% of volume released.

- ***The number of hazardous substance spills increased by 14%, yet the volume has decreased by 19% compared to the previous 5 years.***

  Hazardous substance spills account for 16% of the total number of spills and 35% of the total volume. Many of the larger hazardous substance spills are associated with mining facilities. PERP is conducting a detailed analysis of all spills at mining facilities to gain a more thorough understanding of the increase, with the goal of working with the mining sector to decrease and prevent future spills.

- ***The number of spills at unregulated facilities decreased by 11% in the past five years.***

  At unregulated facilities, refined oil was the most common product spilled and comprised nearly 80% of the total volume spilled. The greatest numbers of releases from unregulated activities were from vehicles, gas

stations, mining operations and vessels (< 400 gross tons). Mining operations had the greatest total volume spilled of 1,064,910 gallons. Spills from vessels (< 400 gross tons) ranked second in terms of the total volume released of 537,627 gallons and fifth for the total number of spills during the ten year period.

- ***The number of spills at regulated facilities increased by 1% in the past five years.***

  However, this increase is from unregulated components of the regulated system, primarily process water spills from flow lines at oil production facilities on the North Slope. Process water is a highly corrosive mixture of oil, gas and water. Process water spills make up 3% of reported spills and 31% of the total volume spilled. There have been more process water spills (29% increase), but less volume spilled (58% less) in the same period. A prior DEC spill data report exposed an increase of process water spills from flow lines on the North Slope and Cook Inlet and, as a result, the Department adopted corrosion control regulations for flow lines.

- ***There has been a decrease in all cause categories correlating to the overall decrease in the number of spills.***

  In the past five years, the number of spills caused by human factors (21%) and a decrease from all facilities, with the exception of storage, where a 51% increase has been noted. Over 50% of these spills are due to structural/mechanical causes (line failure, equipment failure).

The complete report can be viewed on line at:

http://www.dec.state.ak.us/spar/perp/docs/10year_rpt/10YR_Core_web.pdf

Section I: Statewide Data Summary

A. Overview

Total Spills:	23,009
Total Volume:	5,617,304
Average Spill Size:	244
Average Spills/Year:	2,301
Average Volume/Year:	561,730

Top 5 Facility Types

Facility Type	Spills	Gallons
Oil Production	3,918	1,885,170
Mining Operation	1,854	1,070,151
Vessel	1,799	549,176
Pipeline	732	506,337
Noncrude Terminal	857	261,642

Top 5 Causes

Cause	Spills	Gallons
Leak	3,360	1,219,158
Human Error	1,667	606,681
Other	1,290	482,077
Line Failure	3,036	462,331
Equipment Failure	1,453	378,286

Top 5 Products Released

Product	Spills	Gallons
Diesel	7,698	1,128,729
Seawater	143	1,067,912
Other	1,394	657,633
Crude	853	457,738
Produced Water	336	420,125

Top Locations

Subarea	Spills	Gallons
North Slope	4,481	1,916,958
Northwest Arctic	1,483	1,105,220
Interior Alaska	4,179	782,403

NOTE: The numbers above exclude spills reported in pounds. Process Water spills **are** included.

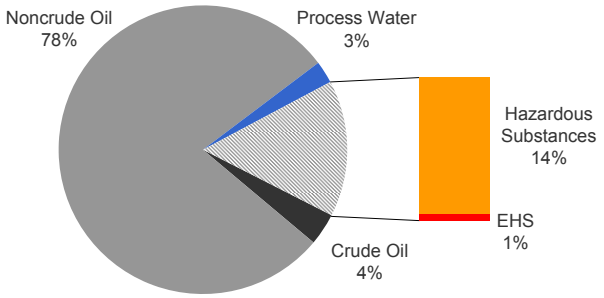
Total Number of Spills and Volume Spilled

- Alaska averages 2,301 spills each year. There is no noticeable trend in the number of spills, other than the annual count appears to be on a decline over the past two years of this reporting period.

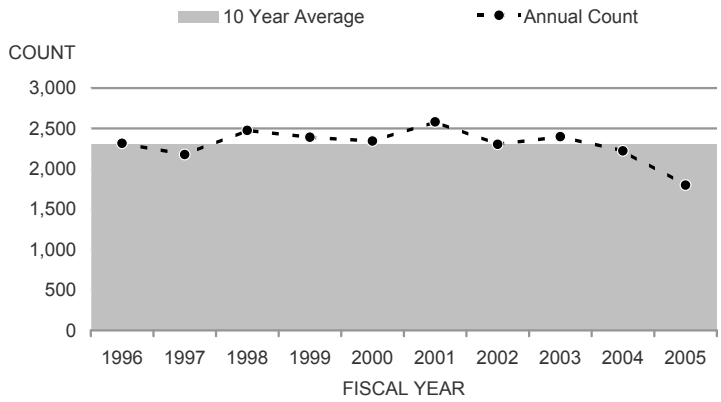
Product Category	Count	Gallons
Crude Oil	853	457,738
Hazardous Substance	3,487	1,376,506
Noncrude Oil	18,078	2,067,208
Process Water	591	1,715,852

- Oil (both crude and noncrude oil products) constituted the vast majority (82%) of the reported spills.
- During the 10-year period, there was an average of 349 hazardous substance spills per year, with an average spill volume per incident of 395 gallons. In the last five years of this reporting period, the number of hazardous substance spills has increased by 14% compared to the previous five-year period. The total volume decreased by 58% during the same period.

Number of Spills by Product



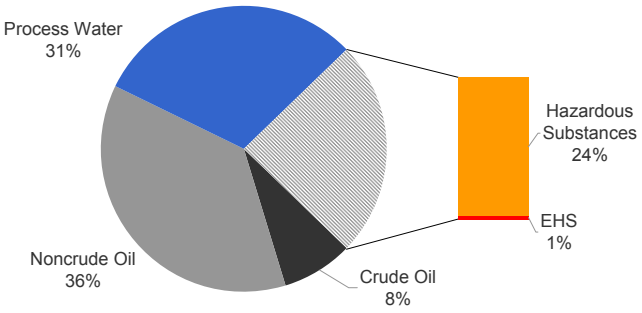
Number of Spills by Fiscal Year Compared to 10-Year Average



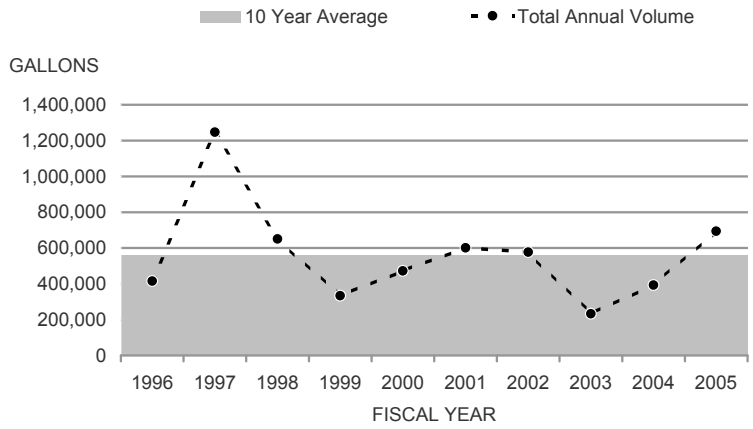
Overview *(continued)*

- During the 10-year period, there was an average of 59 process water spills per year, with an average spill volume per incident of 2,903 gallons. In the last five years of this reporting period, the number of process water spills has increased by 29% compared to the previous five-year period. The total volume released decreased 58% during the same period.
- A total of 5.6 million gallons of oil, hazardous substances and process water were released during the 10-year period.
- Oil accounted for 44% of the total volume released over the 10-year period. The average spill volume for the reported oil spills was 133 gallons.
- While process water spill reports made up only 3% of the total spill reports received, these spills accounted for 31% of the total volume released. Process water spills often involve a significantly higher volume than oil or hazardous substance releases. The average spill volume for process water incidents was 2,903 gallons.
- There were no significant trends in the total volume released over the 10-year period. The total for FY97 includes a major process water spill of 994,000 gallons (North Slope, March 1997).

Volume Released by Product



Total Volume Released by Fiscal Year Compared to 10-Year Average

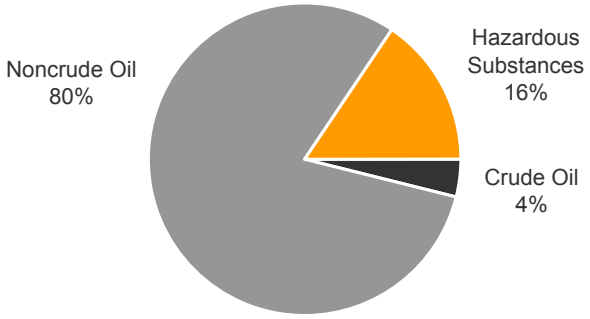


B. Spills by Product *(excluding Process Water)*

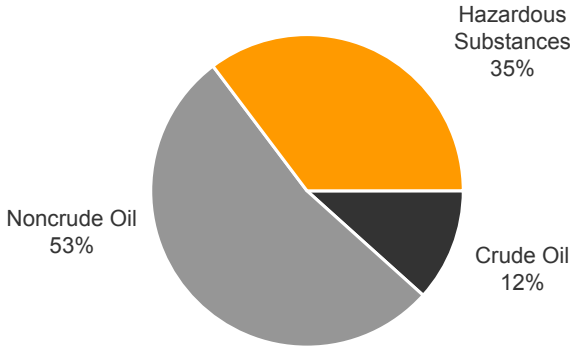
Overall Trend

- Crude oil spills accounted for 4% of the total number of spills and 12% of the total volume spilled. During the last 3 years of the reporting period, we observed a 4% decrease in the volume spilled.
- Noncrude oil spills accounted for 80% of the total number of spills and 53% of the total volume spilled.
- Hazardous substance spills accounted for 16% of the total number of spills and 35% of the total volume spilled.

Number of Spills by Product



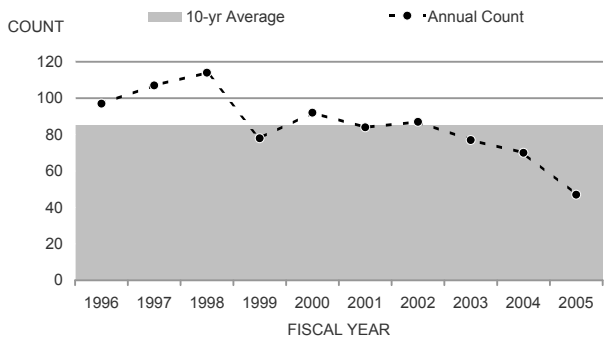
Gallons Spilled by Product



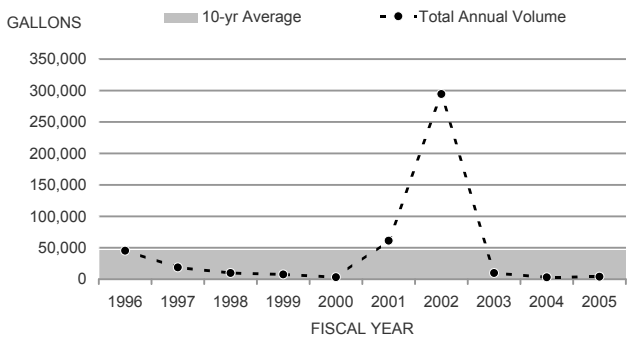
Crude Oil

- Spills involving crude oil appear to be declining, while there are no noticeable trends in the number of reported spills involving noncrude oil and hazardous substances.
- With the exception of the TAPS Bullet Hole Incident in FY2002, the annual volume of crude oil spilled appears to be fairly constant.
- During the 10-year period, there were four significant crude oil spills, each greater than 10,000 gallons, including the TAPS Bullet Hole Incident (285,600 gallons). Crude oil spills averaged 537 gallons per incident. The average spill size without the TAPS Bullet Hole Incident would have been 202 gallons. Had the TAPS Bullet Hole Incident not occurred, the average volume for FY 2001-2005 would have increased by 3%.
- The number of crude oil spills has decreased by 25% over the latter half of this 10-year period, as compared to the previous five-year period.

Number of Crude Oil Spills by FY



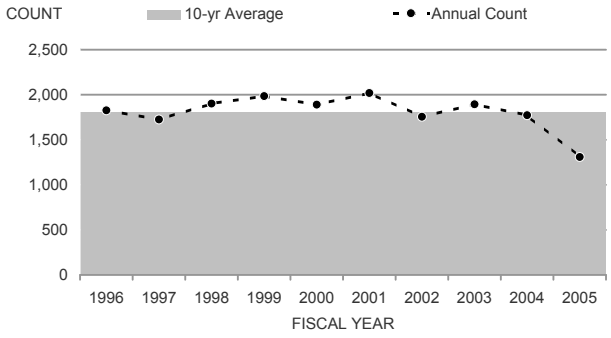
Crude Oil Volume by FY

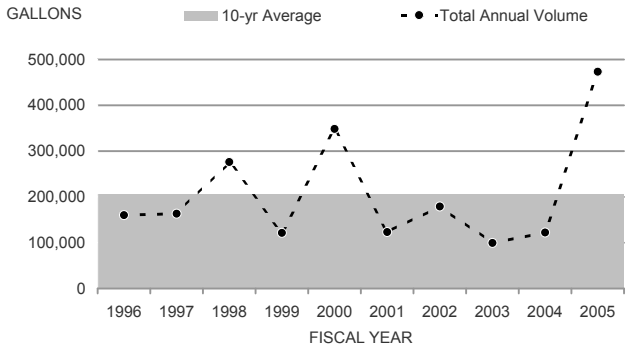


Spills by Product *(continued)*

Noncrude Oil

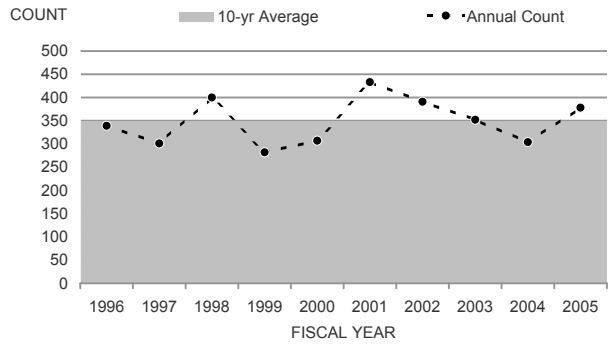
- Annual spill volumes involving noncrude oil are not displaying any noticeable trends.
- During the 10-year period, there were 23 significant spills, each greater than 10,000 gallons. The largest was the M/V Selendang Ayu (335,732 gallons), which also contributed to the significant spike in total volume released for FY 2005 (see graph below).
- The number of noncrude oil spills has decreased by 6% compared to the previous five-year period.
- Noncrude oil spills averaged 114 gallons per incident.

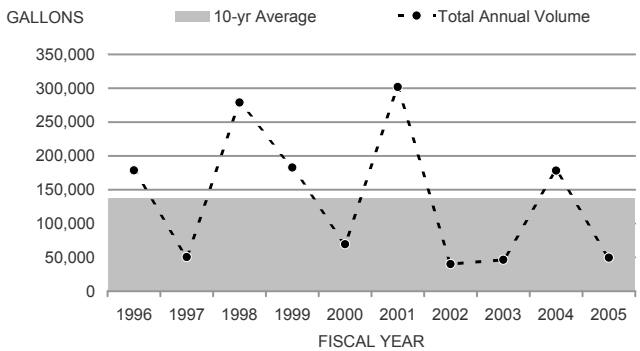




Hazardous Substances

- Annual spill counts and volumes involving hazardous substances are not displaying any noticeable trends.
- During the 10-year period, there were 16 significant spills, each greater than 10,000 gallons. The largest release was 200,000 gallons of magnesium oxide slurry at the Red Dog Mine.
- The number of hazardous substance spills has increased by 14% compared to the previous five-year period, while total volume decreased by 19%.

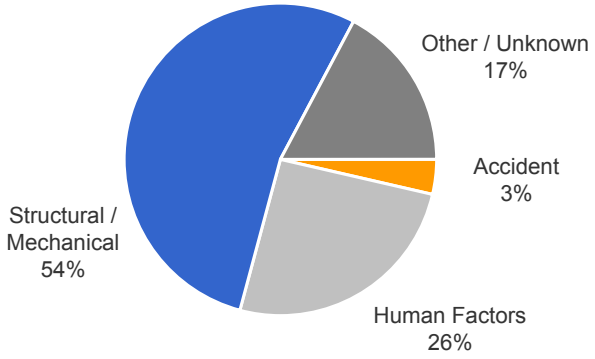




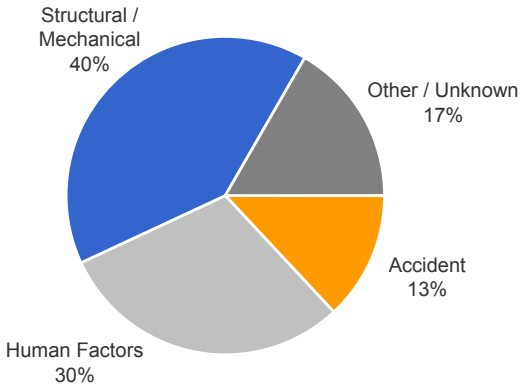
C. Spills by Cause *(excluding Process Water)*

- Structural/Mechanical causes accounted for over 50% of the total spills over this 10-year period, with an average of 132 gallons per spill.
- Spills caused by Structural/Mechanical resulted in a significant percentage of the total volume spilled (40%), although Human Factors averaged greater volume per spill (202 gallons).
- Largest Spill from a Structural/Mechanical cause: 158,398 gallons of zinc and lead tailings at Red Dog Mine (November, 2003, Northwest Arctic).
- Largest Spill reported in pounds caused by an Accident: 25,000,000 pounds of Urea (January 1997, Crowley Barge Oregon, Cook Inlet). Largest Spill reported in gallons caused by an Accident: 120,516 gallons diesel (December 1999, Alaska Railroad, Gold Creek).
- Largest Spill caused by Human Factors: 335,732 gallons of diesel and IFO (M/V Selendang Ayu, December 2004, Unalaska Island).
- The number of spills caused by Human Factors has decreased by 21% compared to the previous five-year period, while total volume increased by 254% (due to the TAPS Bullet Hole Incident and the M/V Selendang Ayu).
- The number of spills caused by Accidents has decreased by 16% compared to the previous five-year period and the total volume also decreased by 12%.

Number of Spills by Cause

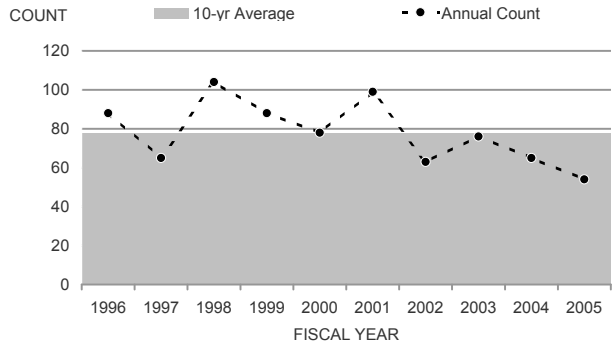


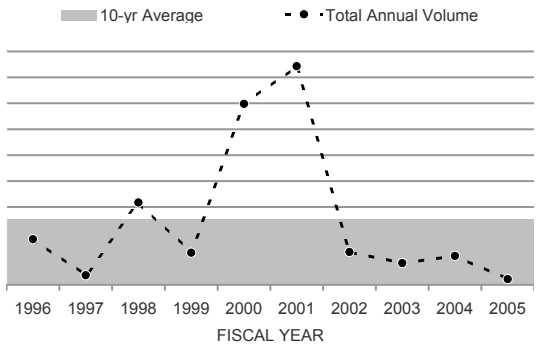
Gallons Spilled by Cause



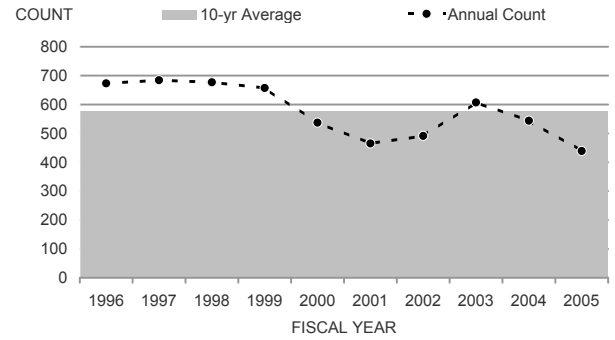
Spills by Cause *(continued)*

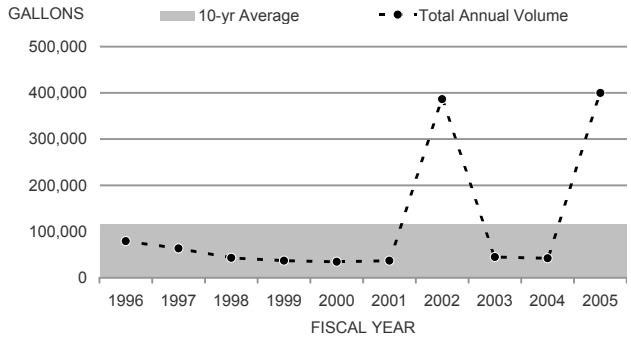
Accident



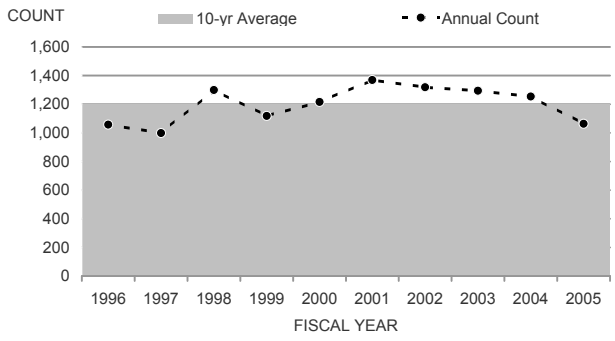


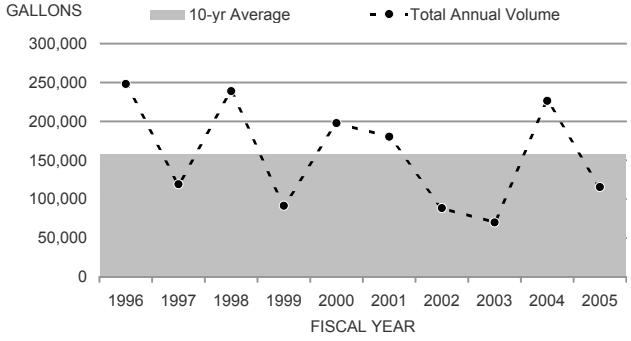
Human Factors



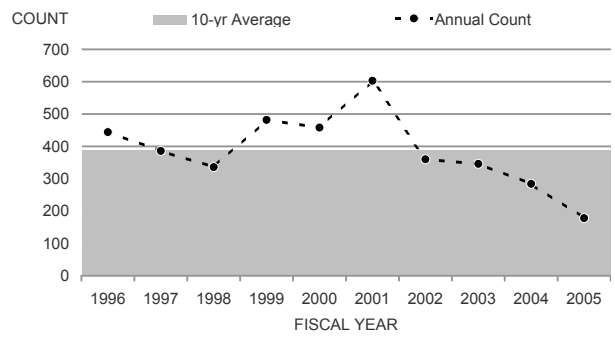


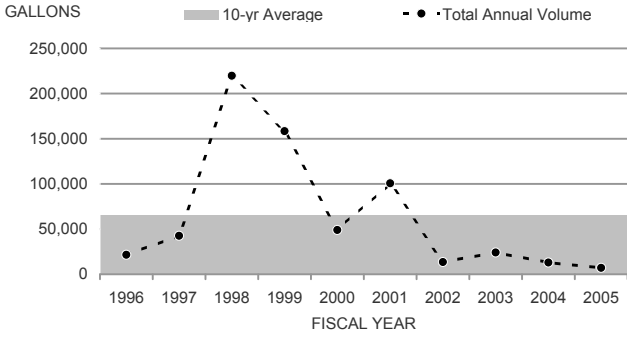
Structural/Mechanical





Other/Unknown





D. Spills by Size Class *(excluding Process Water)*

- More than half (60%) of the spills reported during the 10-year period were smaller than 10 gallons.
- Spills greater than 100 gallons accounted for 94% of the total volume whereas spills less then 10 gallons accounted for 1% of the total volume.
- Spills 100 gallons and greater appear to be decreasing in number.
- Spills 10 to 99 gallons and spills 100 gallons and greater have decreased by 17% and 16%, respectively compared to the previous five-year period. The total volume for spills 10 to 99 gallons in size also decreased by 15%.
- During the 10-year period, there were 50 spills 10,000 gallons or greater in size. Four spills involved crude oil and 23 involved noncrude oil.
- During the 10-year period, there were 8 spills 100,000 gallons or greater in size (excluding spills reported in pounds).

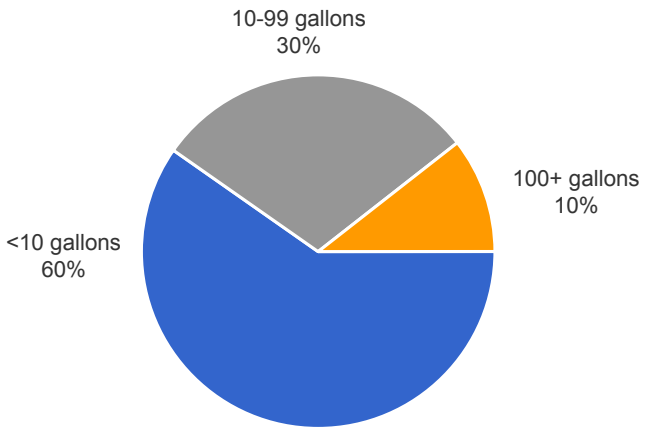
Top 5 Oil Spills

Spill Date	Incident Name	Product	Gallons
12/08/04	M/V Selendang-Ayu	Intermediate Fuel Oil, Diesel	335,732
10/04/01	TAPS Bullet Hole Release	Crude	285,600
12/22/99	Alaska Railroad Derailment at Gold Creek	Diesel	120,000
10/27/97	Elemendorf AFB Aero Club	Aviation Fuel	100,000
03/24/00	West Coast Aviation Spill	Gasoline	84,360

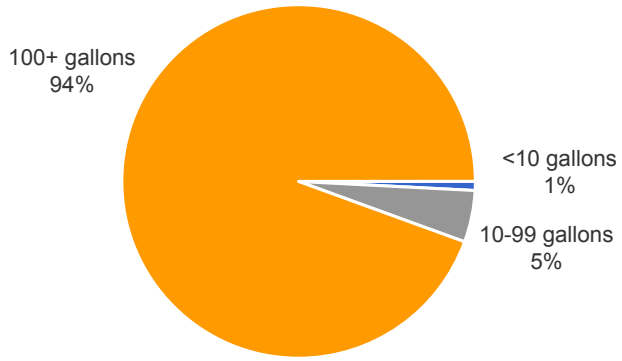
Top 5 Hazardous Substance Spills

Spill Date	Incident Name	Product	Gallons
05/31/98	Red Dog Mine	Magnesium Oxide (Slurry)	200,000
11/24/03	Red Dog Mine	Zinc/Lead Tailings	158,398
04/09/96	Ketchikan Pulp Company Bleach Plant	Acid, Other	125,000
03/02/99	Red Dog Mine	Zinc/Lead Tailings	100,000
12/28/00	Red Dog Mine	Zinc Concentrate	80,000

Number of Spills by Size Class

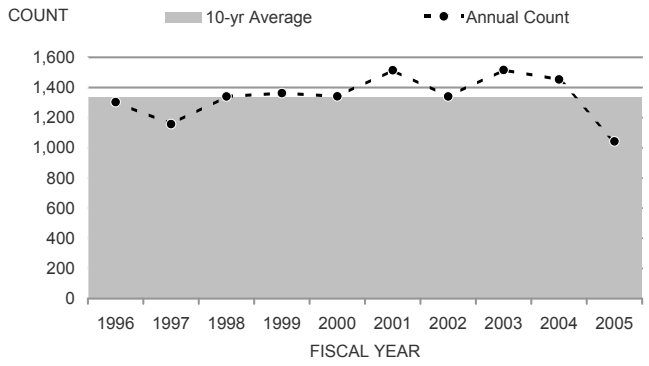


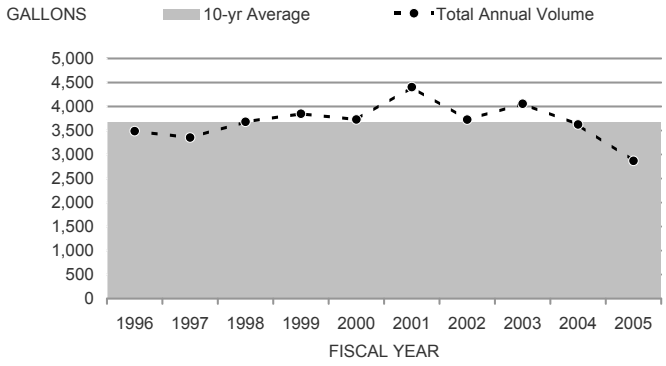
Gallons Spilled by Size Class



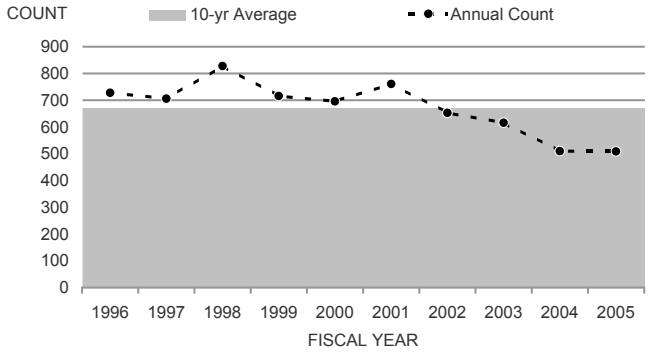
Spills by Size Class *(continued)*

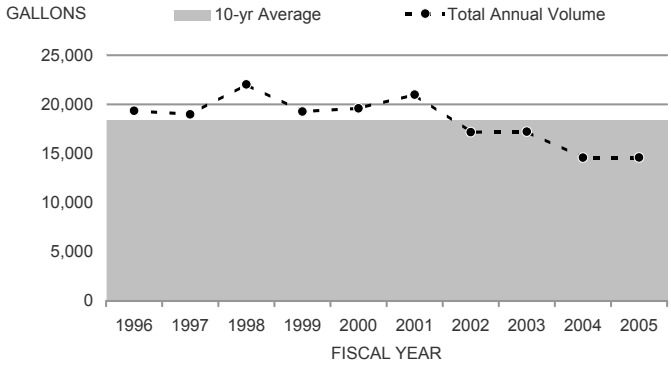
Spills Less Than 10 Gallons



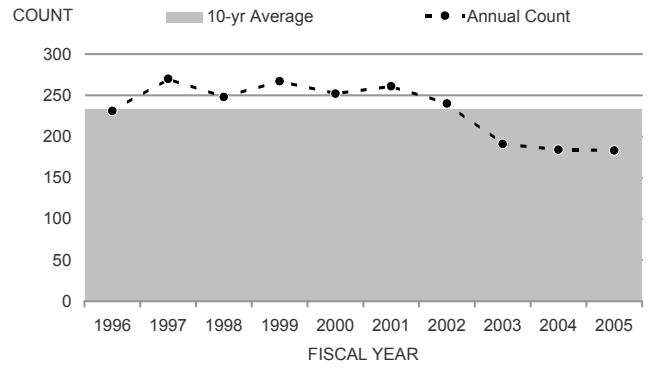


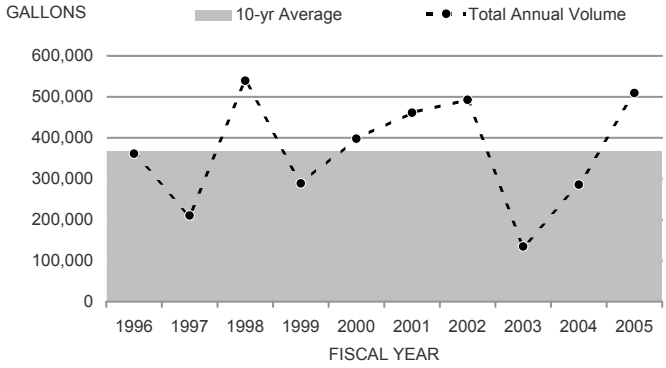
Spills Between 10 and 99 Gallons





Spills 100 gallons or Greater

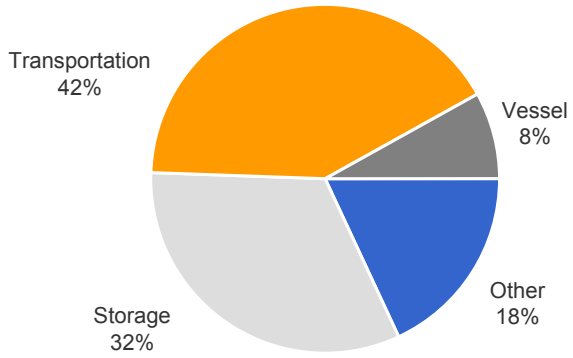




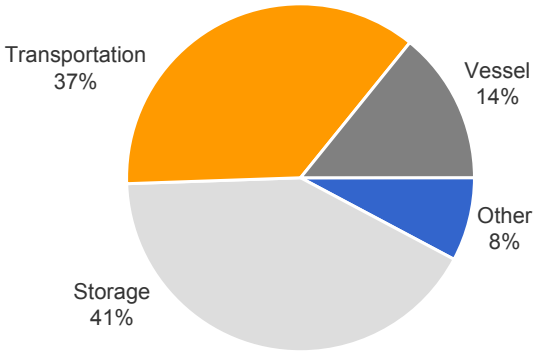
E. Spills by Facility Type *(excluding Process Water)*

- There was a decrease in spills for all facility types with the exception of Storage, which experienced a 51% increase in the last five years of this reporting period.
- Transportation and Storage facilities averaged the largest volume for spills, with an average of 151 and 224 gallons per incident, respectively.
- Spills from Storage accounted for 41% of the total volume spilled over the last 10 years while Transportation accounted for 37%.
- Spills from Vessels decreased by 51% over the past 5 years, although volume increased by 221%, primarily due to the M/V Selendang Ayu.
- Largest Vessel Spill reported in pounds: 25,000,000 pounds of urea (January 1997, Crowley Barge Oregon, Cook Inlet). Largest Vessel Spill reported in gallons: 335,732 gallons of oil (December 2004, M/V Selendang Ayu).
- Largest Spill from a Storage Facility: 200,000 gallons of magnesium oxide (mining operation, May 1998, Northwest Arctic).
- Largest Spill from Transportation: 285,600 gallons of crude oil (TAPS Bullet Hole Incident, October 2001, Interior Alaska).

Number of Spills by Facility Type

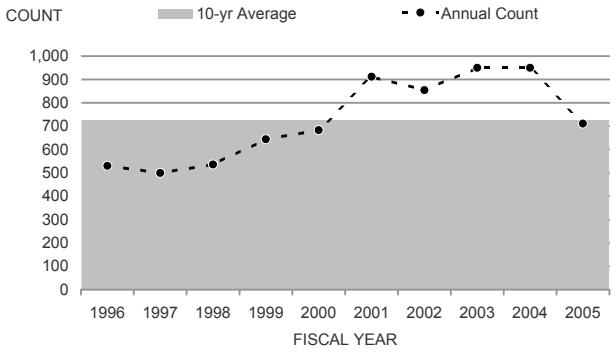


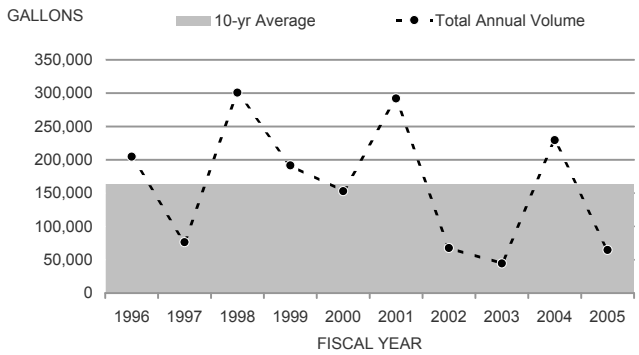
Gallons Spilled by Facility Type



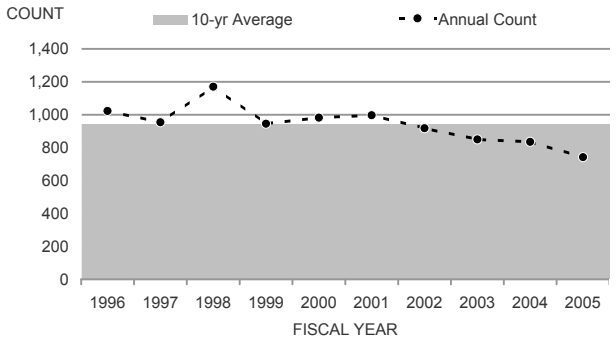
Spills by Facility Type *(continued)*

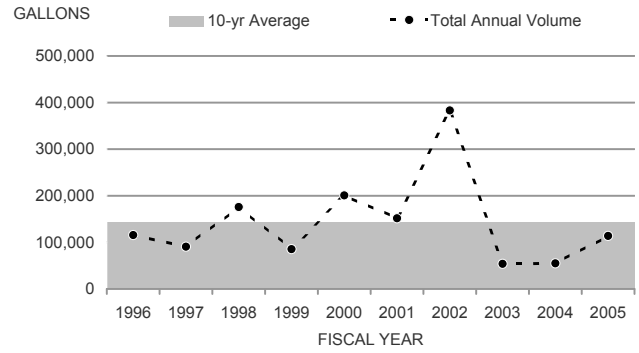
Storage



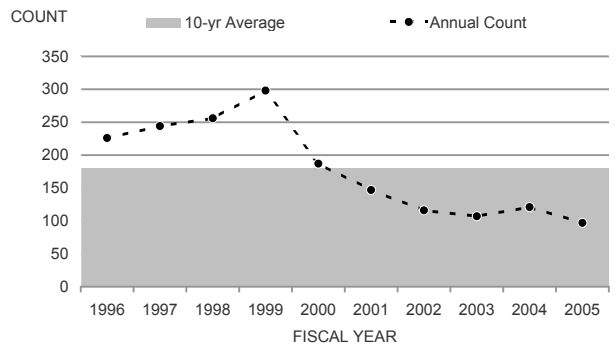


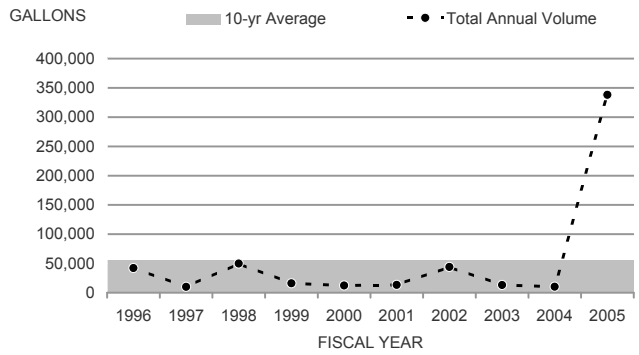
Transportation



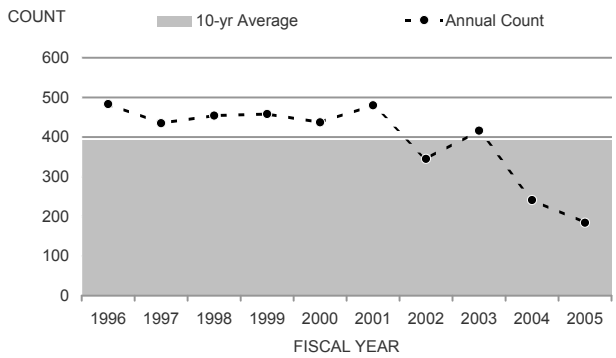


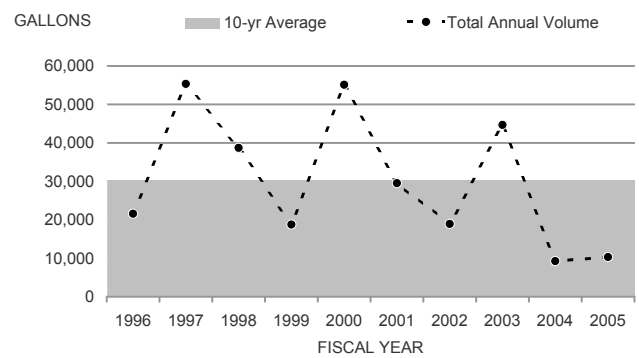
Vessel





Other/Unknown

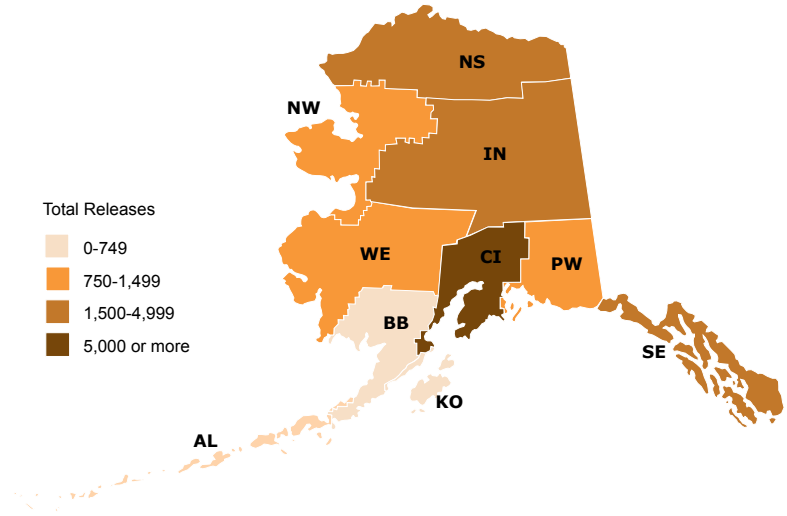




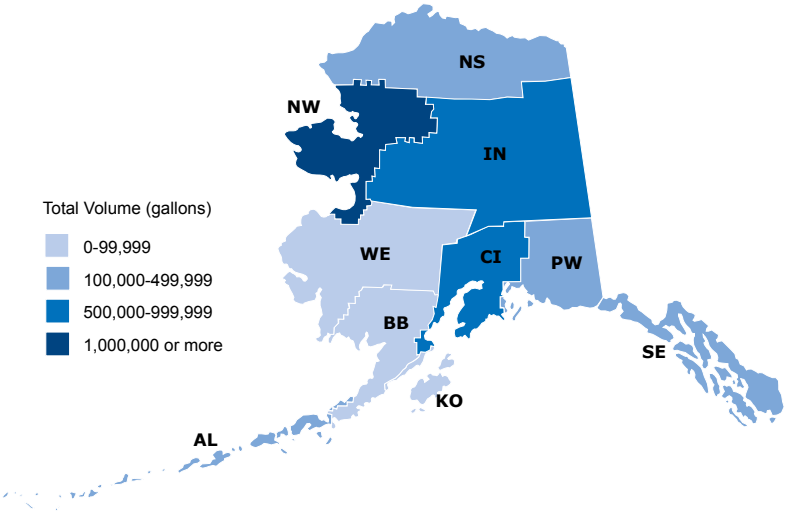
F. Spills by Subarea *(excluding Process Water)*

- The map on the upper right of this page denotes the number of spills by the ten sub-areas of the State. Cook Inlet experienced the greatest number of spills, and this can be attributed to the higher population and industrial density, plus the major highways, railway, and other transportation systems in the subarea.
- The North Slope, Interior, and Southeast were next in terms of total numbers of spills. The large number of spills on the North Slope is primarily due to the oil industry exploration and production activities. Spills in the Interior subarea may be related to the higher population and industrial centers as well. Similarly, the higher number of spills in the Southeast subarea may be the result of population densities and industrial activities.
- The Northwest Arctic, Western Alaska, and Prince William Sound experienced 750-1499 spills over this 10-year period. The Aleutians, Bristol Bay, and Kodiak subareas reported total number of spills in the 0-749 range.

Number of Spills by Subarea



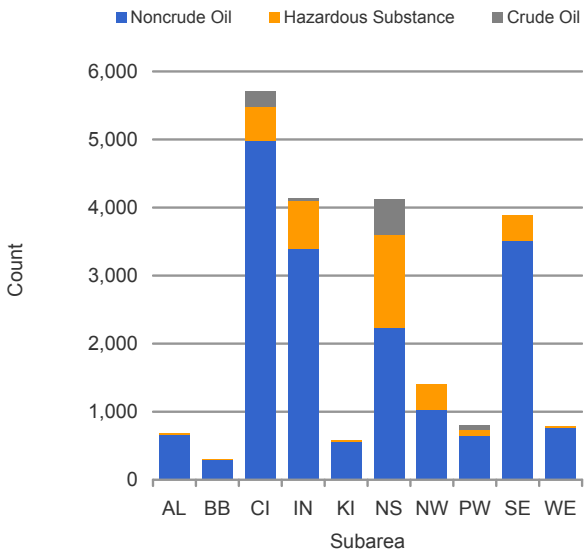
Gallons Spilled by Subarea



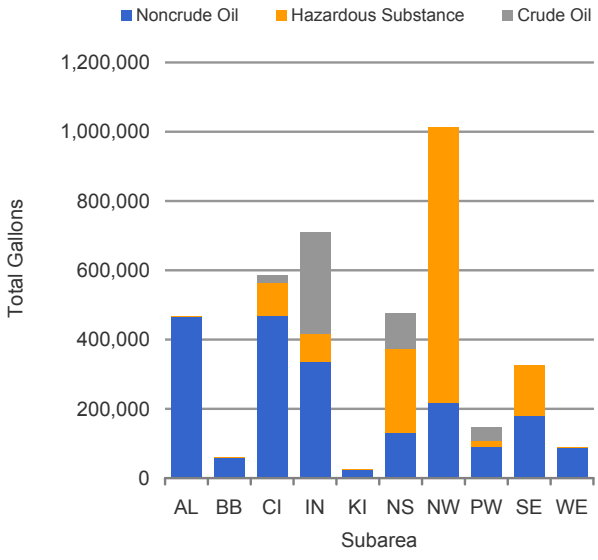
Abbreviation	Subarea
AL	Aleutian
BB	Bristol Bay
CI	Cook Inlet
IN	Interior Alaska
KI	Kodiak Island
NS	North Slope
NW	Northwest Arctic
PW	Prince William Sound
SE	Southeast Alaska
WE	Western Alaska

- In terms of total volume spilled, the second map on the preceding page notes that the Northwest Arctic spilled over 1,000,000 gallons of oil and hazardous substances during this period. The Interior and Cook Inlet subareas were next in terms of total volume spilled, followed by the Aleutians, North Slope, Prince William Sound, and Southeast subareas. Western Alaska, Bristol Bay, and Kodiak were the three subareas with the least amount of product spilled over this 10-year period.
- In several cases, large spill events such as the TAPS Bullet Hole Release (285,600 gallons) in the Interior subarea, the M/V Selendang Ayu spill in the Aleutians (335,732 gallons) and the 200,000-gallon magnesium oxide release at a mining operation in the Northwest Arctic were key contributing factors in the total volume released for a specific subarea.

Number of Spills by Subarea and Product



Gallons Spilled by Subarea and Product



Section II: Regulated vs. Unregulated Spills

A. Overview

As summarized on the following pages, numerous oil facilities and vessels operating in Alaska are subject to Alaska's spill response planning and financial responsibility statutes. This section summarizes spills from:

- facilities and vessels required by statute to have an approved oil discharge prevention and contingency plan; and,
- non-tank vessels which are required to have an approved certificate of financial responsibility are also included.

Spills from underground storage tanks are not included in this analysis.

Valdez Marine Terminal

Regulated and Unregulated Components

Alaska's contingency planning requirements apply to specific aspects (components) of a facility's or vessel's operations. The analysis in this report distinguishes between spills from regulated versus unregulated components. Examples of spills from unregulated components include:

- a spill from a vehicle at a regulated facility;
- a spill from a fuel tank (below the regulatory threshold of 10,000 barrels) at a regulated facility
- certain piping at oil production facilities

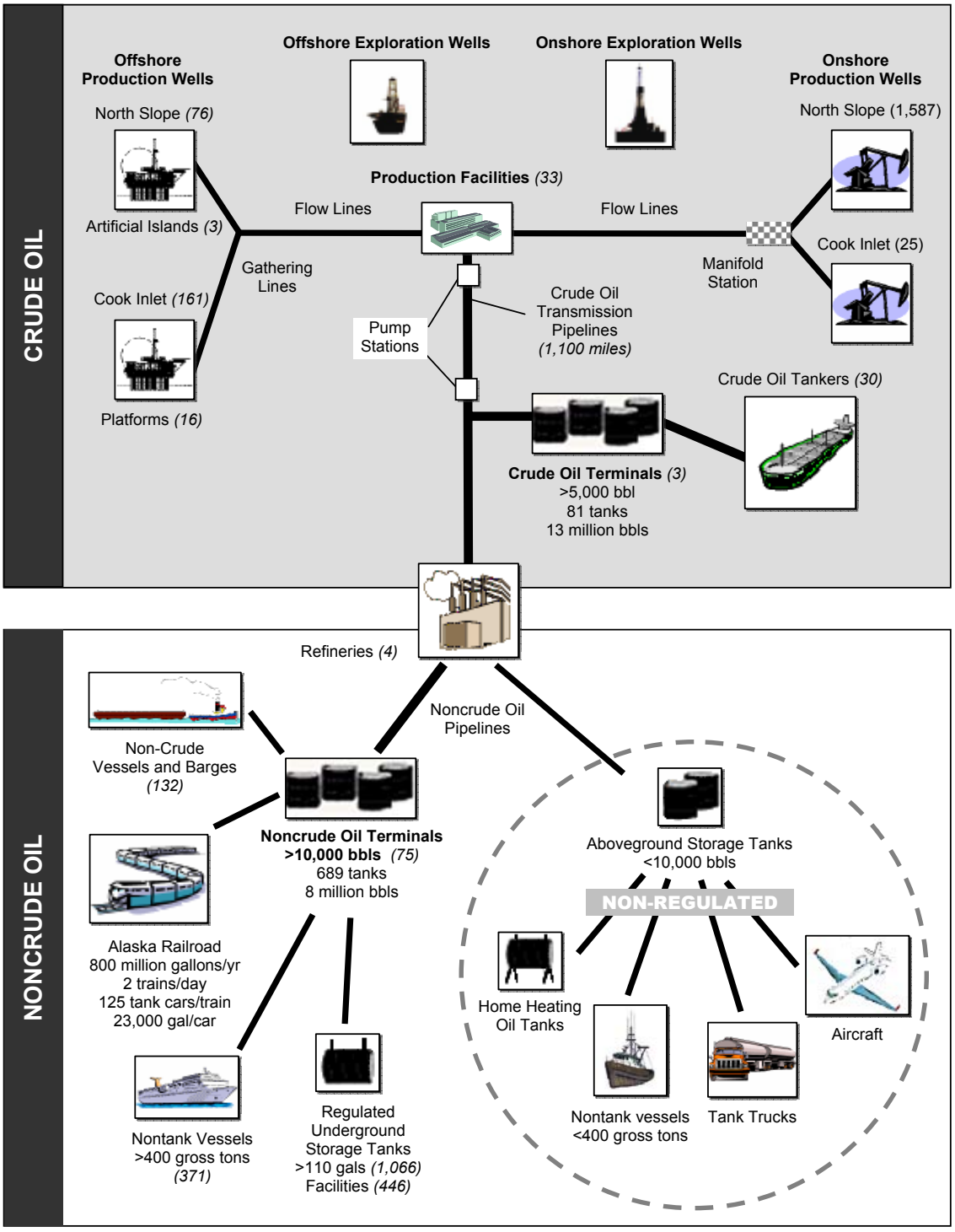
North Slope facility

TAPS bullet hole release, October 2001

Alaska Railroad Derailment, October 1999

Alaska's Oil Production, Transportation and Storage Network

The facilities designated as "non-regulated" are not required to have a state-approved oil discharge prevention and contingency plan. () indicates number of facilities.



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Regulated Facilities and Vessels with Approved Oil Spill Contingency Plans and Approved Financial Responsibility Certificates in Alaska

(Source: ADEC Industry Preparedness Program)

Crude Oil Facilities

Facility Type & Support Facilities	*Number/Units	Additional Comments
Exploration Facilities	12	
Storage Tanks	190	Estimated number
Production Facilities	33	
Storage Tanks	442	
*Offshore Production Wells (Cook Inlet)	161	
*Offshore Production Wells (Beaufort Sea)	76	
*Onshore Production Wells (North Slope)	1,587	
*Onshore Production Wells (Southcentral)	25	
Transmission Pipelines		
TransAlaska Pipeline System (TAPS)	800 miles	
Non-TAPS	300+ miles	
Crude Oil Terminals	3	
Storage tanks	81(includes TAPS)	Storage capacity = 13,717,324 bbls
Refineries	4	
Crude Oil Tankers	30	

Noncrude Oil Facilities

Facility Type & Support Facilities	*Number/Units	Additional Comments
Noncrude Oil Tankers and Tank barges	132	
Non-Tank Vessels >400 Gross Tons	371	Estimated number
Noncrude Oil Terminals >10,000 bbls Storage Capacity	75	
Storage tanks	689	Storage Capacity – 8,609,899 bbls
Railroad Tank Cars	(2) trains/ day	Up to 125 tank cars per train with 23,000 gallons jet fuel per tank car

Regulated Underground Storage Tanks

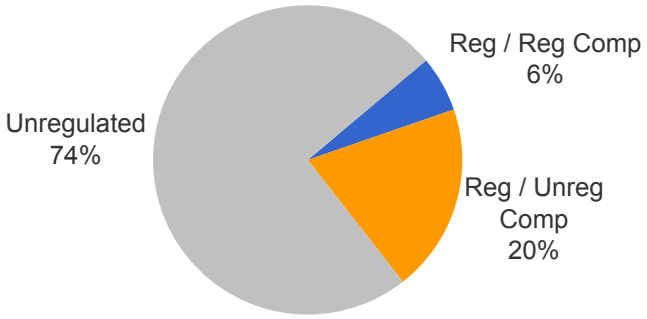
Facility Type & Support Facilities	*Number/Units	Additional Comments
Underground Storage Tank Facilities	446	
Underground Storage Tanks	1,066	

** Well data current through September 2005 (Alaska Oil and Gas Conservation Commission); all other revised October 2005*

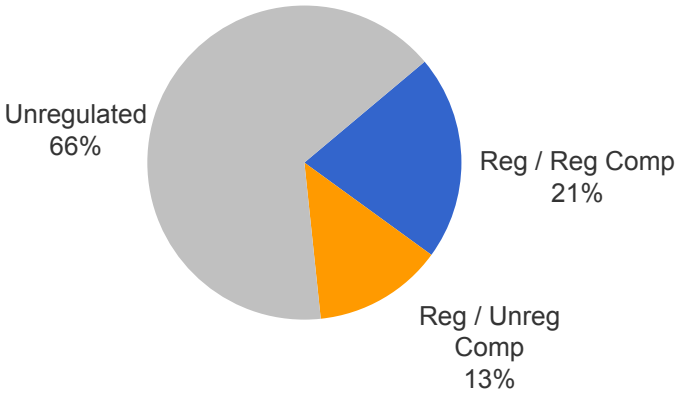
Regulated vs. Unregulated Facilities *(excluding Process Water) -- continued*

- The most prominent conclusion to be discerned from the data is that spills from regulated facilities (including regulated and unregulated components) occur much less frequently (26%) than spills from unregulated facilities (74%). Spills from regulated components at regulated facilities comprised 6% of the total number of spills during the 10-year period.
- The total volume of product spilled from unregulated facilities (2,028,506 gallons) was approximately two-thirds of the total volume released during the 10-year period.
- The average spill volume per spill incident for regulated facilities was 195 gallons as compared to 128 gallons for unregulated facilities.
- The number of spills from regulated facilities increased by 1% over the last five years of this reporting period. Total volume also increased by 9% over the same period, primarily due to the TAPS Bullet Hole Incident (285,600 gallons).
- The number of spills from unregulated activities decreased by 11% over the last five years of this reporting period. Total volume also decreased by 6% over the same period.

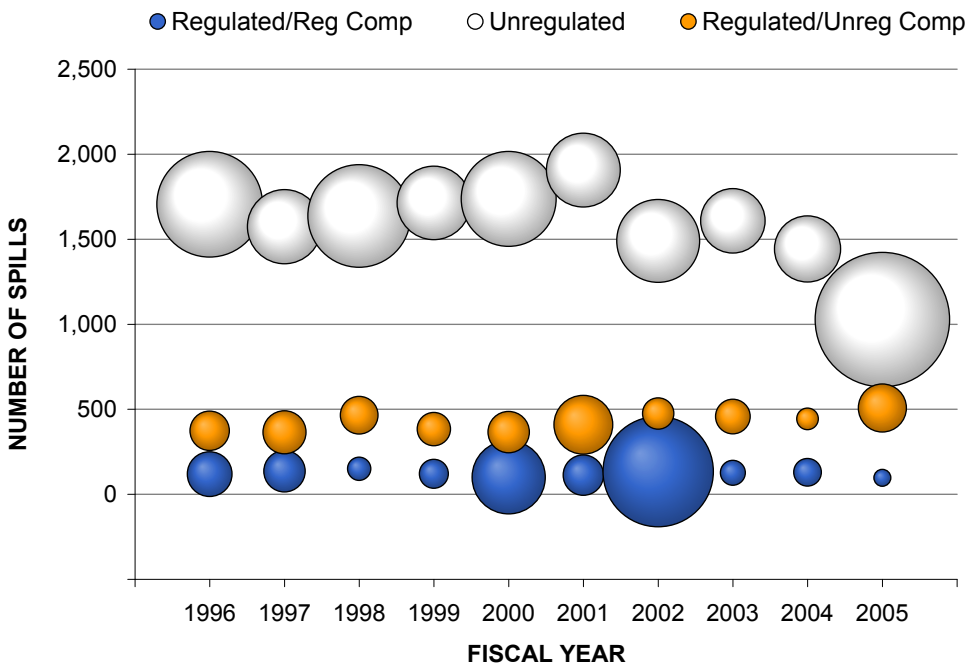
Number of Spills



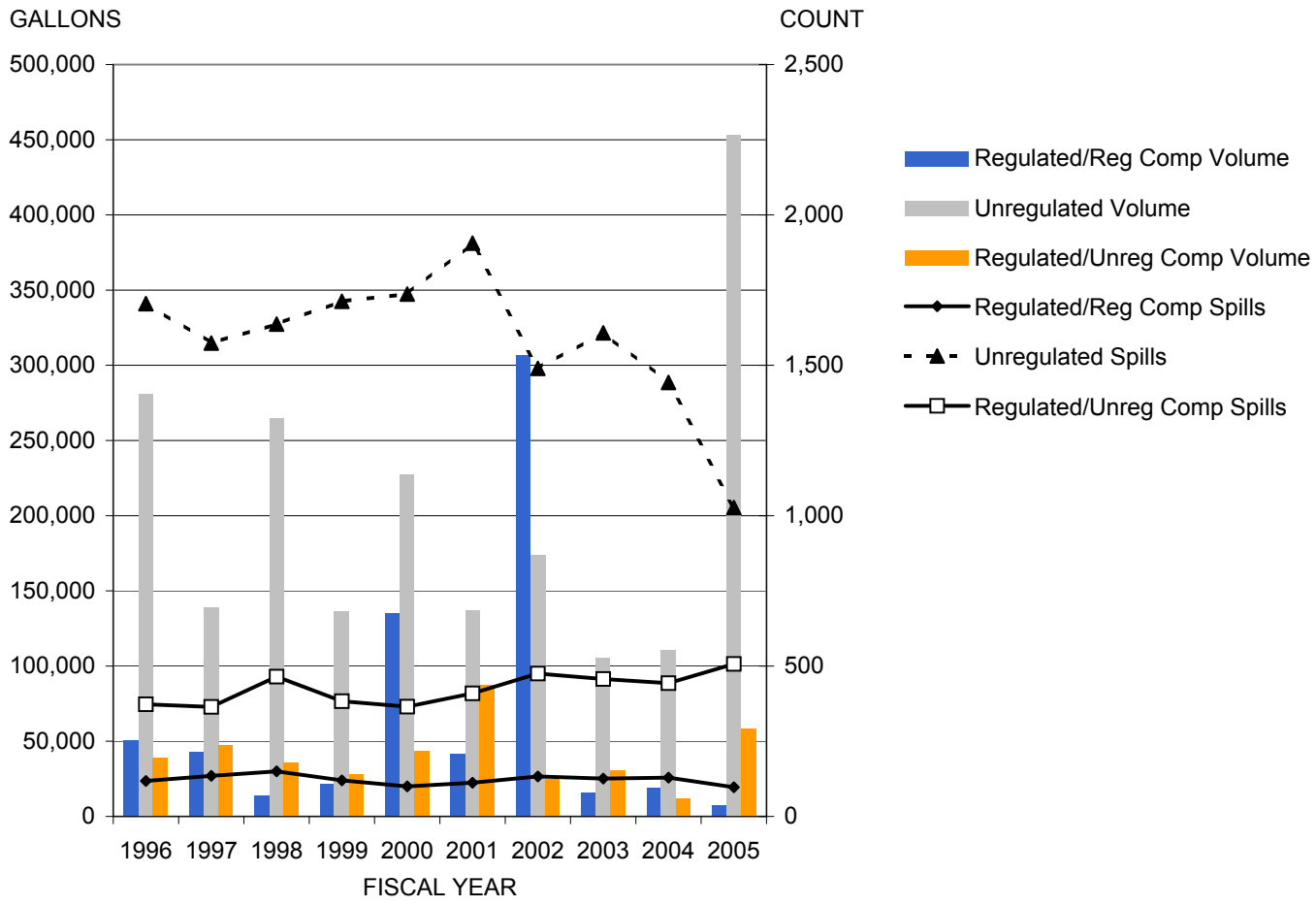
Gallons Spilled



This bubble graph illustrates the number and total volume of spills reported from regulated and unregulated facilities. The size of the bubble is proportional to the total volume spilled for a given fiscal year. The vertical position of the bubble indicates the number of spills for the fiscal year.



Regulated vs. Unregulated Facilities *(excluding Process Water) -- continued*

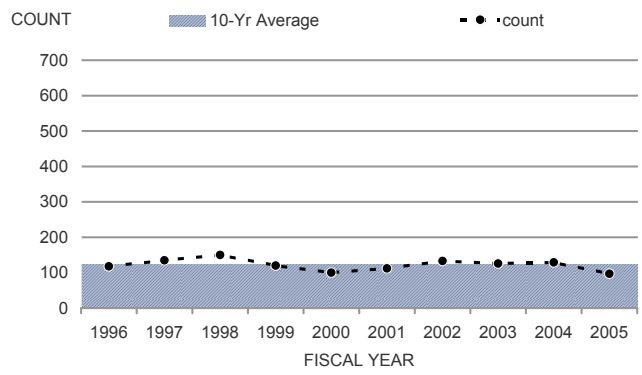


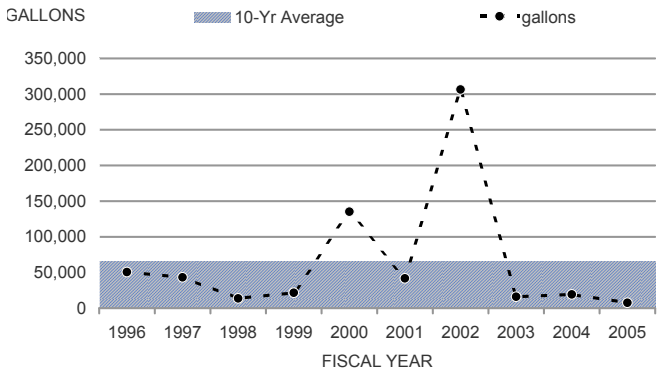
Wilderness Adventurer grounding

Northstar Offshore Island, Beaufort Sea

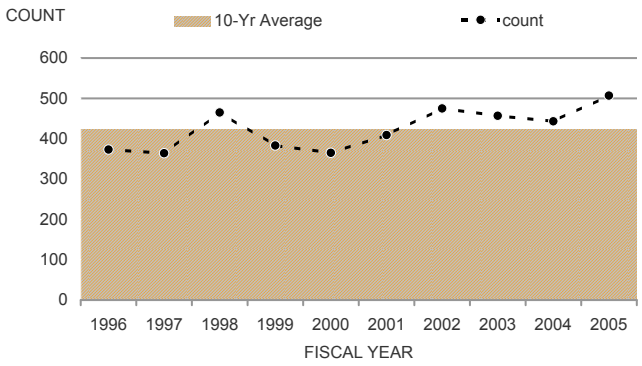
Regulated vs. Unregulated Facilities *(excluding Process Water) -- continued*

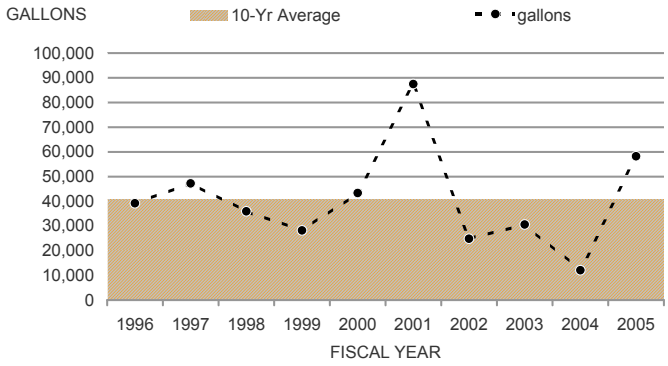
Regulated Facilities -- Regulated Components



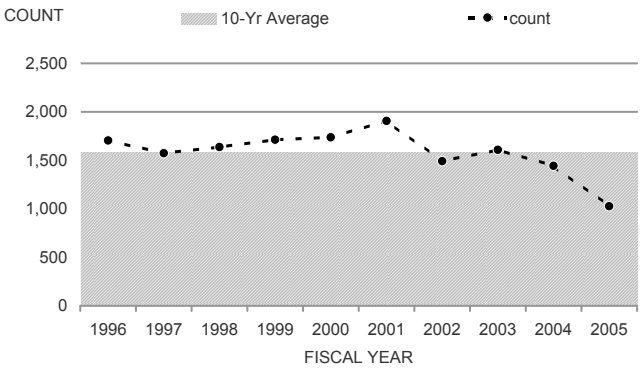


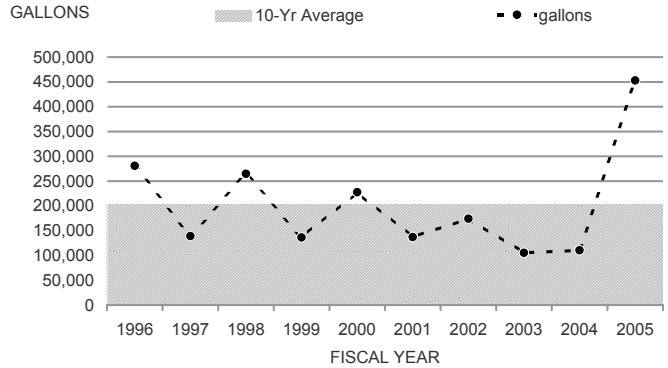
Regulated Facilities -- Unregulated Components





Unregulated Facilities

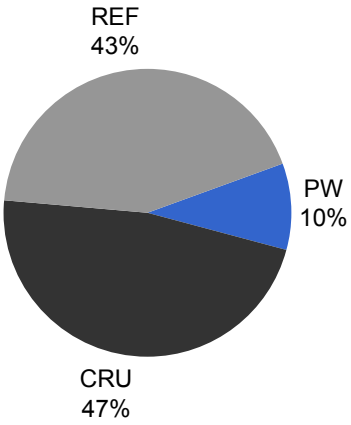




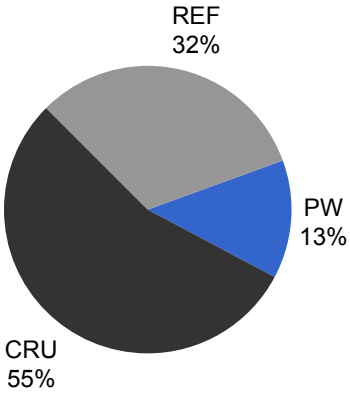
B. Spills by Product

Regulated Facilities -- Regulated Components

Number of Spills



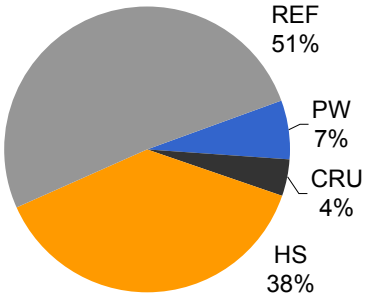
Gallons Spilled



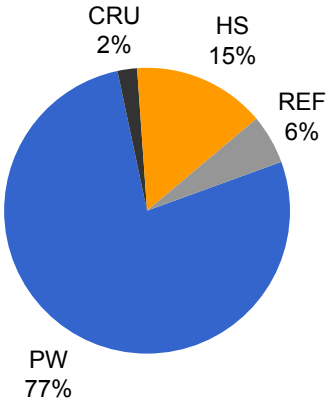
- With the exception of crude oil, most spills occurred at unregulated facilities and unregulated components of regulated facilities.
- At regulated facilities, crude and refined oil made up approximately 90% of the releases from regulated components.

Regulated Facilities -- Unregulated Components

Number of Spills



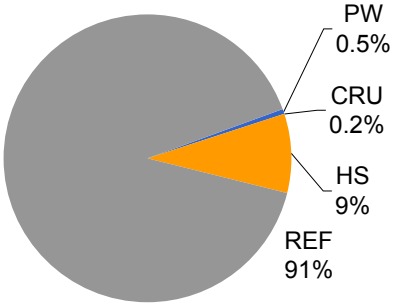
Gallons Spilled



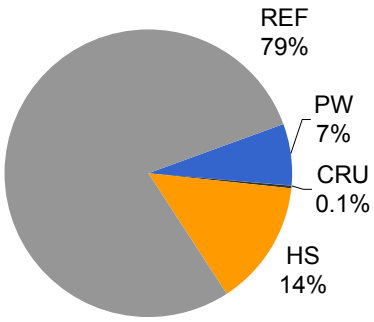
- Refined oil was the most frequently spilled product from unregulated components, but was only 6% of the total volume.
- Process Water comprised 77% of the total volume spilled from unregulated components.

Unregulated Facilities

Number of Spills

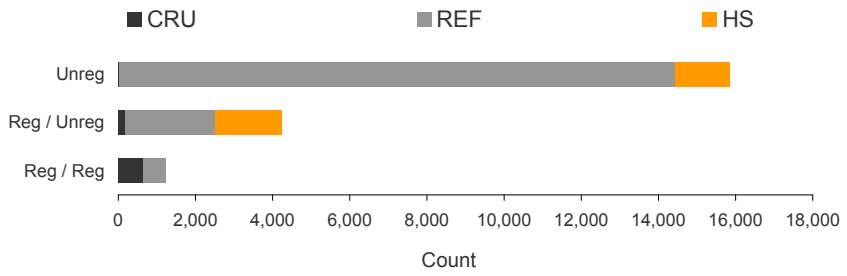


Gallons Spilled

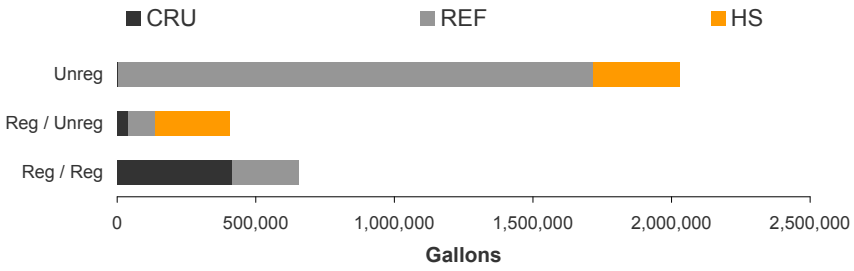


- At unregulated facilities, process water spills accounted for less than 1% of the total number of spills.
- At unregulated facilities, refined oil was the most common product spilled and comprised nearly 80% of the total volume spilled.

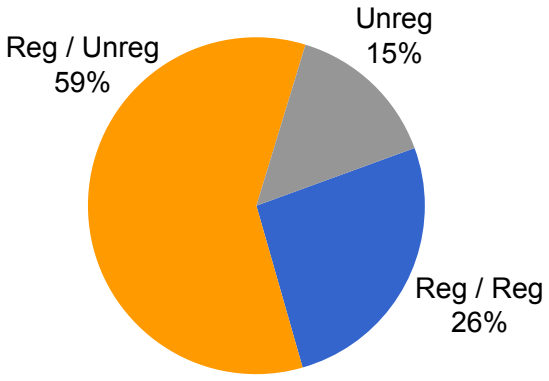
Number of Spills by Product Type *(excluding process water)*



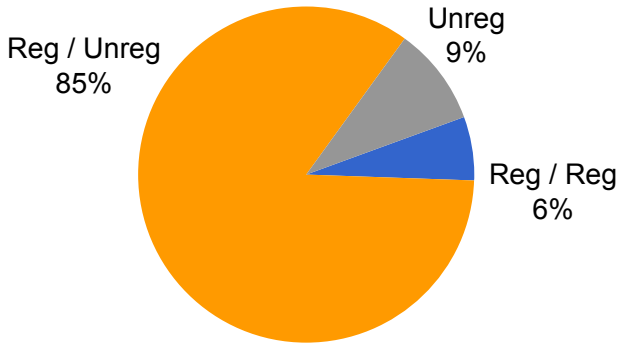
Gallons Released by Product Type *(excluding process water)*



Process Water -- Number of Spills



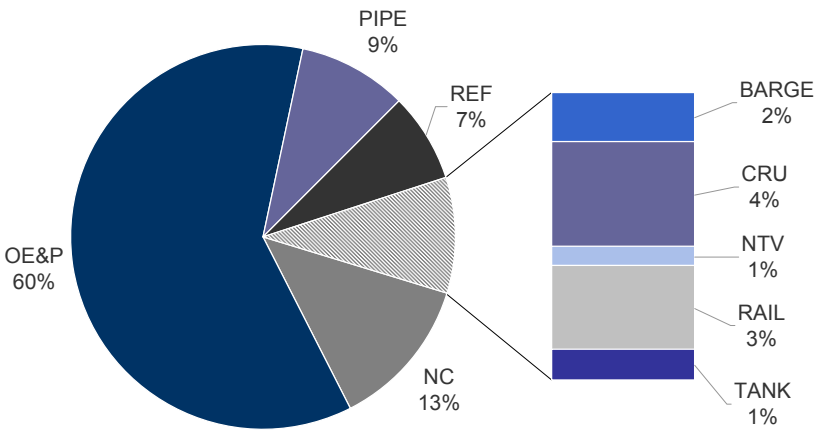
Process Water -- Gallons Released



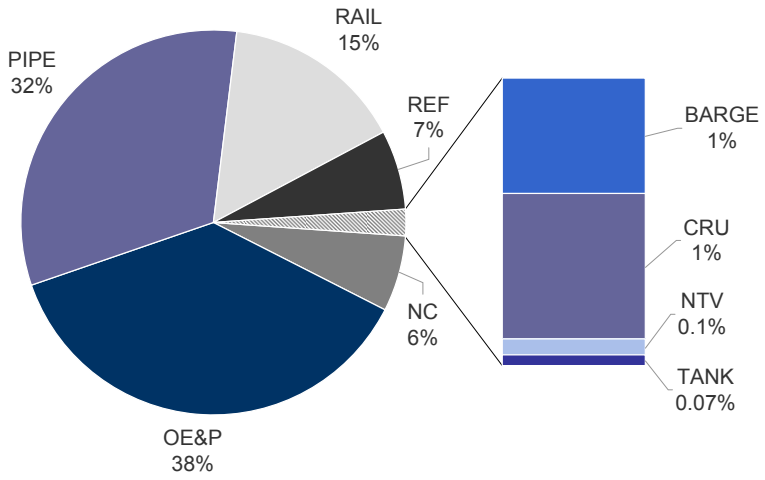
Unreg	Unregulated Facility
Reg / Reg	Regulated Facility / Regulated Component
Reg / Unreg	Regulated Facility / Unregulated Component

C. Spills by Regulated Facility Type

Number of Spills by Regulated Facility Type



Gallons Spilled by Regulated Facility Type



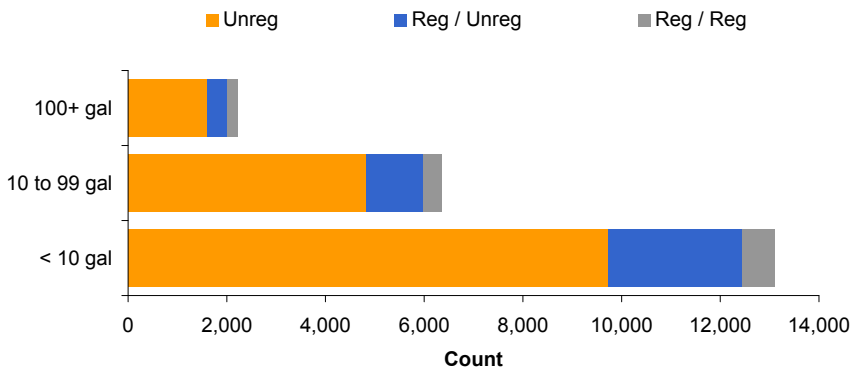
Regulated Activities

- Amongst the regulated activities, Oil Exploration and Production (OE&P) facilities accounted for approximately 60% of the total number of spills, and approximately 38% of the total volume spilled.
- Noncrude terminals (NC) (13%) and transmission pipelines (PIPE) (9%) were the next two highest in terms of total spill count.
- Spills from regulated transmission pipelines accounted for 32% of the total volume spilled, and averaged 672 gallons per incident, although the TAPS bullet hole incident accounted for 285,600 gallons (or roughly 84%) of the total volume spilled over this 10-year period.
- Refinery (REF) spills constituted only 7% of the total number of incidents, and averaged 175 gallons per spill.
- Crude oil terminal (CRU) spills constituted 4% of the total number of incidents, and 1% of the total volume.
- Railroad (RAIL) spills constituted 3% of the total number of incidents, and 15% of the total volume.
- Nontank vessel (NTV) regulations became effective November 27, 2002. Affected parties had until May 27, 2003 to comply with the new requirements. The data set represents spills during a three-year period.
- Vessels transiting through Alaska waters under "innocent passage" are not subject to non-tank vessel regulations.

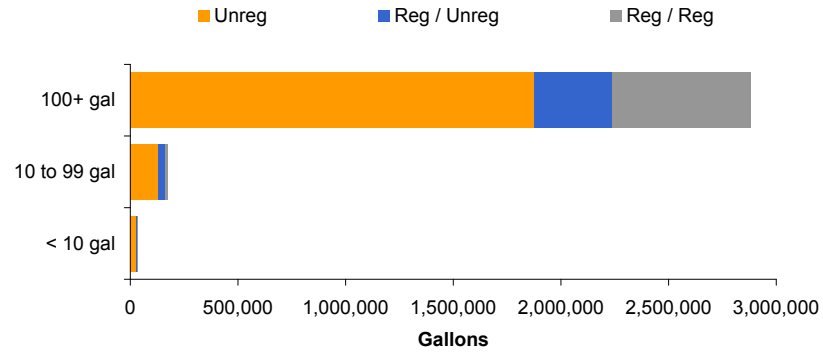
Valdez Marine Terminal

D. Spills by Size

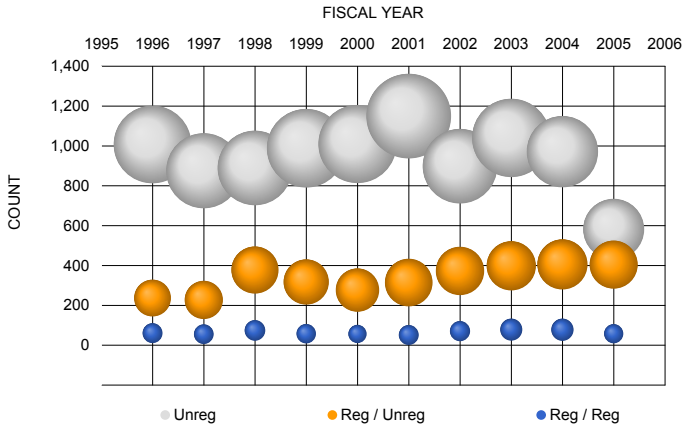
Number of Spills by Size *(excluding process water)*



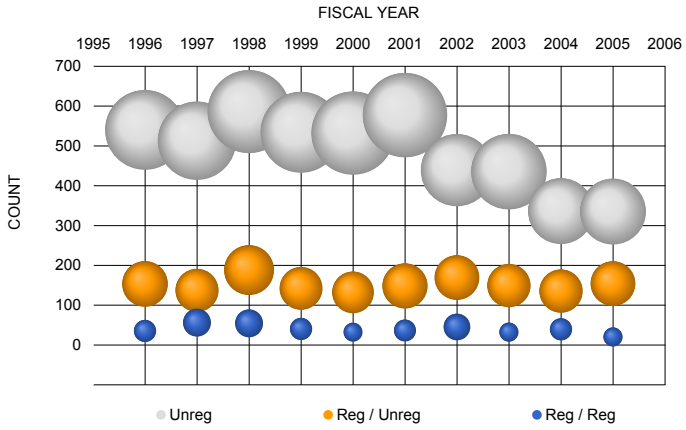
Gallons Released by Size *(excluding process water)*



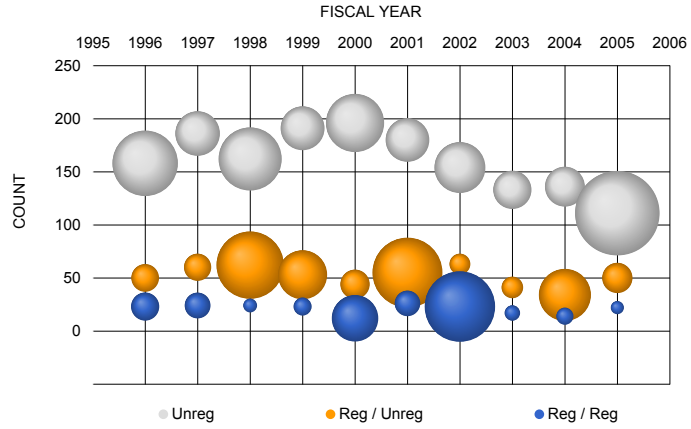
Less Than 10 Gallons



10 to 99 Gallons



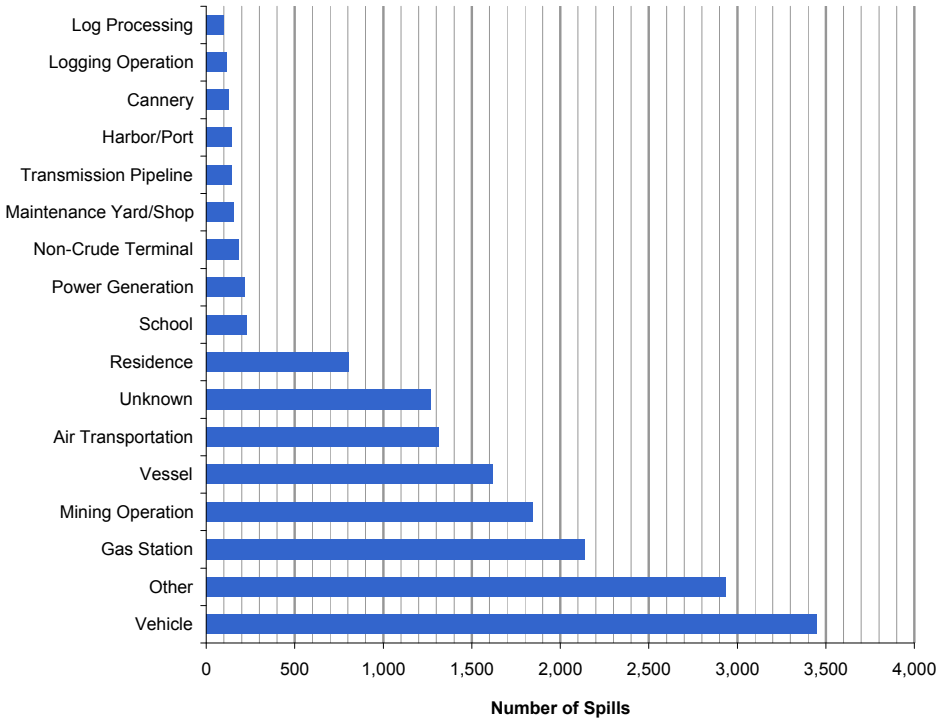
100 Gallons or More



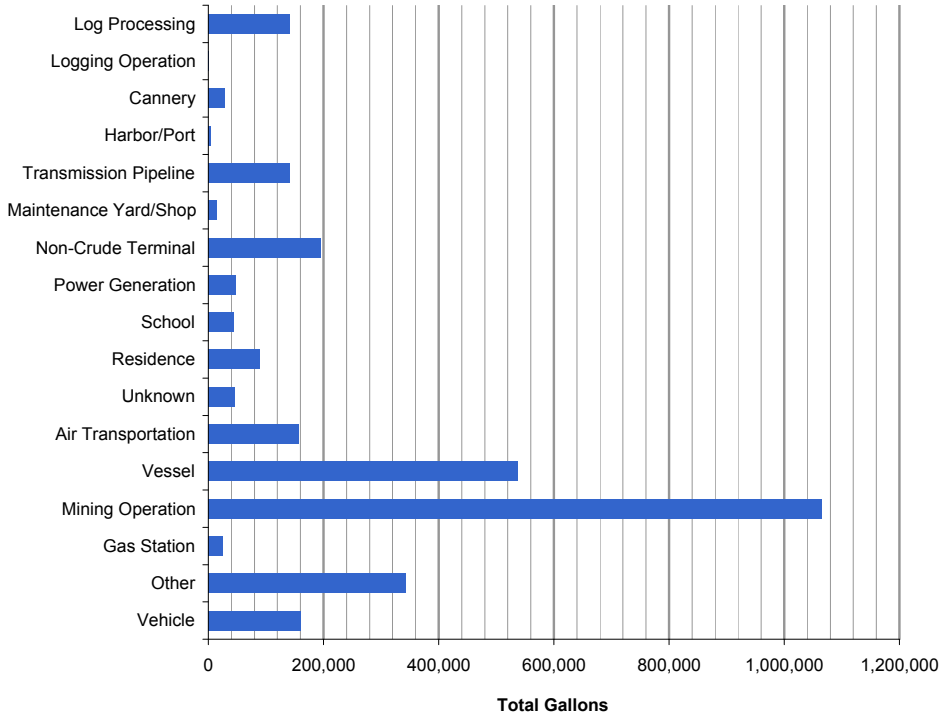
- Regardless of spill size, and with few exceptions in terms of total volume spilled, unregulated facilities generally experienced 3- 5 times as many spills as regulated facilities. Total Volume released for the major spills (Spills 100 Gallons or More) followed a similar trend with the exception of FY2002 when the TAPS 400 Bullet Hole incident occurred, spilling 285,600 gallons of crude oil.

E. Spills at Unregulated Facilities

Number of Spills by Unregulated Facility Type



Gallons Spilled by Unregulated Facility Type



- Among unregulated facilities, the greatest number of releases were from Vehicles whereas Mining Operations had the greatest total volume.
- Spills from vessels ranked second in terms of total volume; however, of the 537,627 gallons released from vessels, 335,732 gallons (62%) resulted from a single incident (the Selendang Ayu Spill, December 2004)
- While gas stations were responsible for a large number of spills (2,136), the total volume spilled was 24,554 gallons or roughly 11.5 gallons per incident.
- Similarly, the average spill size for vehicles was 46 gallons per incident for the 3,446 incidents documented in the Spills Database.
- Although spills from non-crude terminals were relatively infrequent, the average size per spill was approximately 1,062 gallons.
- Spills from log processing facilities were also not that prevalent; however, the average spill size was significant at 1,405 gallons per spill.
- Transmission pipeline spills were also in the minority, although spills from these facilities average 970 gallons per incident.

NOTE: Excludes spills reported in pounds. Includes process water spills and unregulated component spills at Red Dog Mine. Facility types with with fewer than 100 spills were combined with "Other."

E. Spills at Unregulated Facilities *(continued)*

Unregulated Spills by Facility Type, Ordered by Number of Spills

Facility Type	Count	Gallons
Vehicle	3,446	159,637
Other	2,636	255,573
Gas Station	2,136	24,554
Mining Operation	1,842	1,064,910
Vessel	1,615	537,627
Air Transportation	1,313	156,649
Unknown	1,268	45,053
Residence	801	89,776
School	225	43,360
Power Generation	214	46,967
Non-Crude Terminal	183	194,258
Maintenance Yard/Shop	154	14,825
Transmission Pipeline	145	140,711
Harbor/Port	145	3,223
Cannery	127	27,576
Logging Operation	114	1,037
Log Processing	100	140,495
Chemical Manufacturing	76	34,010
Natural Gas Production	73	28,492
Landfill/Dump	36	1,575
Water/Wastewater Facility	34	6,554
Refinery Operation	32	1,765
Laundry Service	19	4,902
Telecommunications	14	6,678
Salvage/Wrecking Yard	7	192
Railroad Operation	5	2,235
Farm/Aquaculture	2	26
Drug Lab	1	1
Total	16,763	3,032,659

Unregulated Spills by Facility Type, Ordered by Volume

Facility Type	Count	Gallons
Mining Operation	1,842	1,064,910
Vessel	1,615	537,627
Other	2,636	255,573
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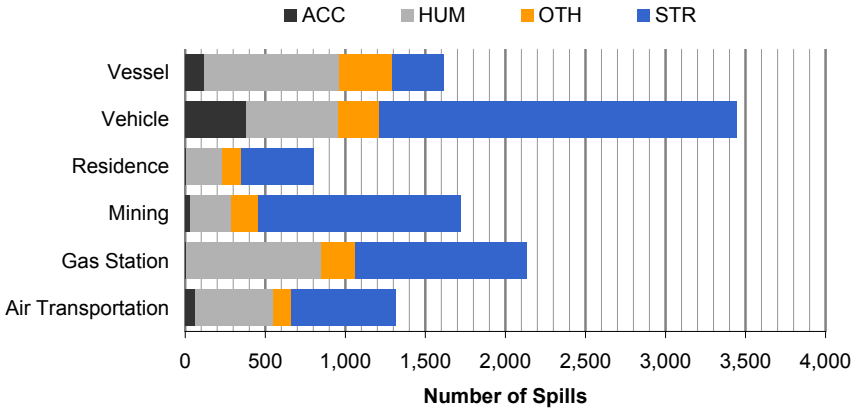
Drug Lab	1	1
Total	16,763	3,032,659

Excludes spills reported in pounds. Includes process water spills and unregulated component spills at Red Dog Mine.

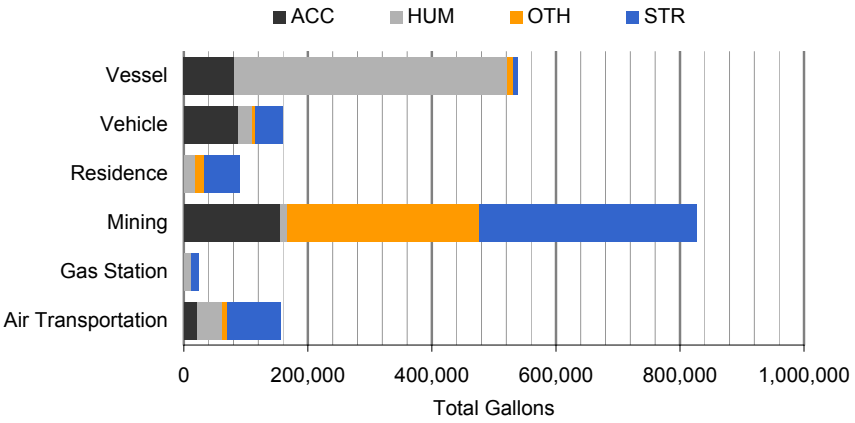
E. Spills at Unregulated Facilities *(continued)*

Number of Spills by Cause and Facility Type



- For the top six unregulated facility types, Structural/Mechanical was the most frequent spill cause. Human Factors were responsible for the greatest total volume.
- Spills from unregulated mining operations resulted in the greater volume spilled, and the cause of these spills were fairly evenly distributed between Structural/Mechanical and Other factors, with a lesser volume spilled caused by Accidents
- In terms of total volume spilled due to Human Factors, the majority of this can be attributed to the Selendang Ayu incident.

Gallons Released by Cause and Facility Type



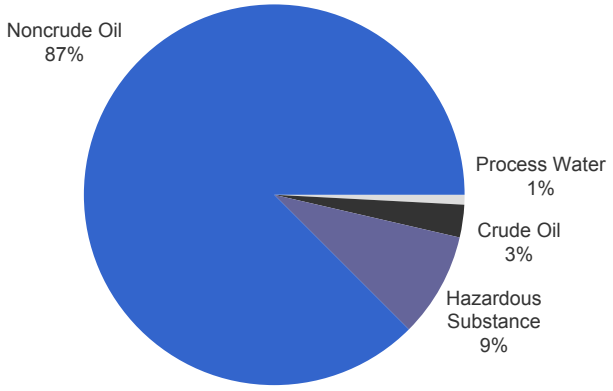
	Accident		Human Factors		Other		Structural/Mechanical		Total	
Facility Type	count	gallons	count	gallons	count	gallons	count	gallons	count	gallons
Air Transportation	61	21,802	490	39,527	108	8,682	654	86,638	1,313	156,649
Gas Station	5	81	845	11,297	214	1,500	1,072	11,677	2,136	24,554
Mining Operation	31	155,282	257	11,468	170	310,588	1,265	349,882	1,723	827,220
Residence	6	651	223	18,213	117	14,525	455	56,387	801	89,776
Vehicle	385	88,206	569	22,389	260	5,201	2,232	43,841	3,446	159,637
Vessel	117	80,512	844	441,307	332	9,072	322	6,736	1,615	537,627

Excludes spills reported in pounds. Includes process water spills and unregulated component spills at Red Dog Mine.

Section III: Spills Transferred to Contaminated Sites

A. Overview

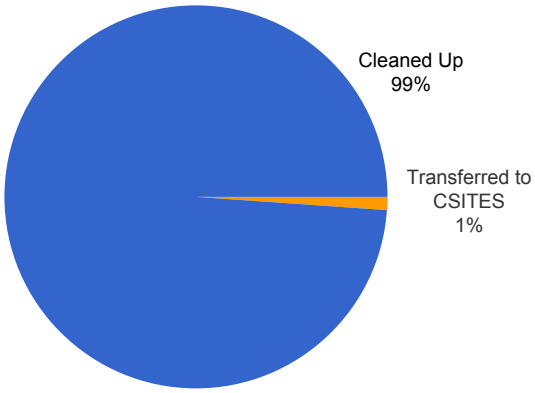
Product Released



- Of the 2,000-plus spills reported annually over this 10-year period, only 254 spills (approximately 1%) were transferred from the Prevention and Emergency Response Program to the Contaminated Sites Program. Nineteen of the spills occurred on existing contaminated sites.
- As noted in the pie chart to the left, the majority of spills transferred to the DEC Contaminated Sites Program involved noncrude oil.

Transferred to CSITES

(Percent Total Count)

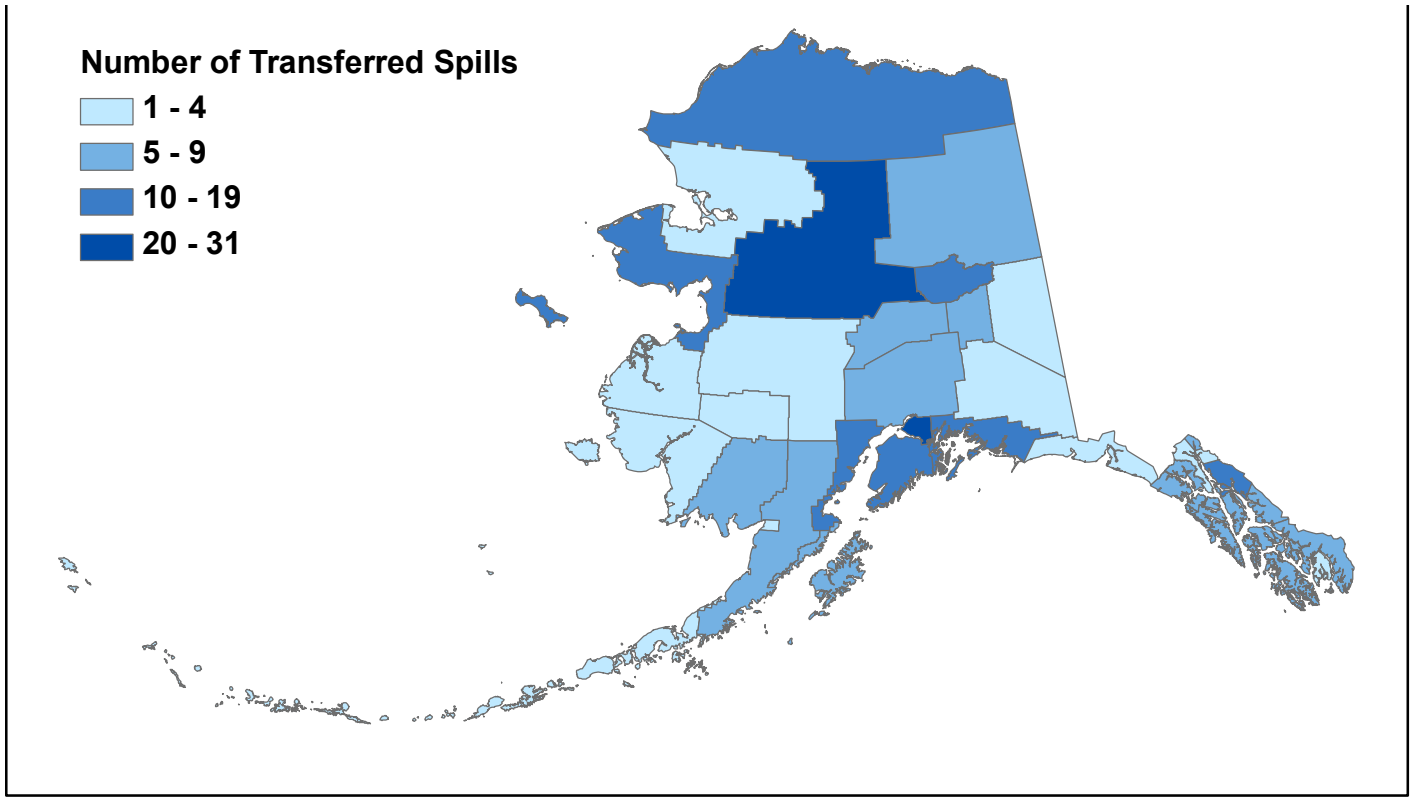


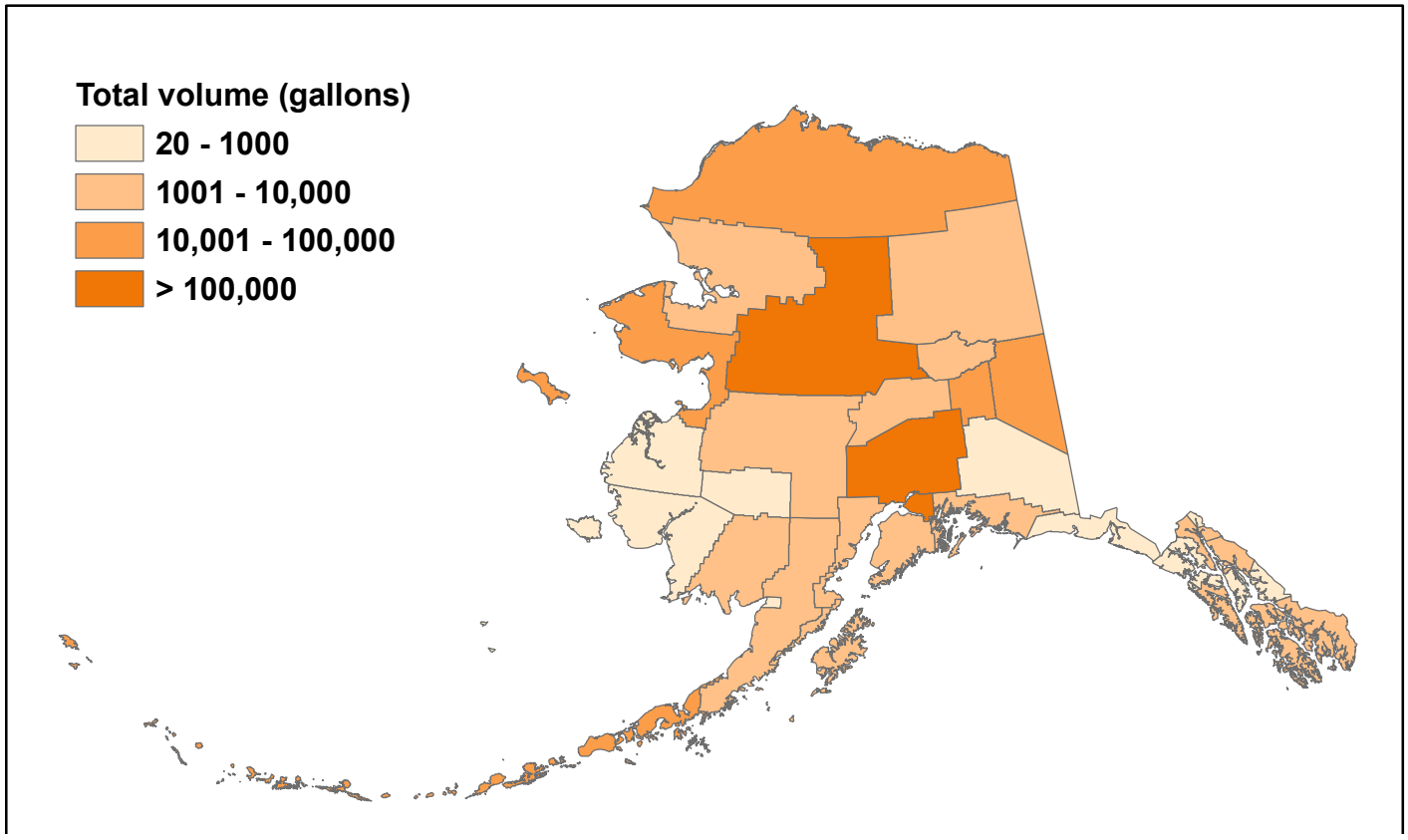
Spills Transferred to CSITES -- Product Released

Product	Count	Gallons	Pounds
Process Water	2	350	
Crude Oil	7	322,275	
Hazardous Substance	23	8,530	20,150
Noncrude Oil	226	484,667	550
Total	258	815,822	20,700

Spills Transferred to CSITES vs. Total Spills

	Count	Gallons	Pounds
Transferred to CSITES	258	815,822	20,700
Cleaned Up	23,412	4,801,482	26,679,266
Total	23,670	5,617,304	26,699,966
% Total	1%	15%	0.1%


Number of Transferred Spills
1 - 4
5 - 9
10 - 19
20 - 31


Total volume (gallons)
20 - 1000
1001 - 10,000
10,001 - 100,000
> 100,000

Appendices

Appendix A: Acronyms and Glossary

Acronyms

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
AFB	Air Force Base
AL	Aleutian subarea
API	American Petroleum Institute
APL	Alyeska Pipeline
ARRC	Alaska Railroad Corporation
AS	Alaska Statute
AVEC	Alaska Village Electric Cooperative
BB	Bristol Bay subarea
bbl	Barrel of oil
BIA	Bureau of Indian Affairs
BWT	Ballast Water Treatment
CART	Central Alaska Response Team
CEPPO	Chemical Emergency Preparedness and Prevention Office
CFR	Code of Federal Regulations
CI	Cook Inlet subarea
CPF	Central Production Facility
CSites	Contaminated Sites Program (ADEC)
DFSC	Defense Fuels Supply Center
DOT	Department of Transportation (and Public Facilities)
DS	Drill Site
DWT	Dead Weight Ton
EHS	Extremely Hazardous Substance
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification System
F/V	Fishing Vessel
FWS	US Fish and Wildlife Service
FY	Fiscal Year (State of Alaska fiscal year is July 1 to June 30)
gals	Gallons
GC	Gathering Center
GT	gross ton
HAGO	Heavy Atmospheric Gaseous Oil
HHOT	Home Heating Oil Tank
HS	Hazardous Substance
HVAC	Heating, Ventilation, and Air Conditioning
IN	Interior Alaska subarea
IPP	Industry Preparedness Program
KO	Kodiak Island subarea
KPL	Kenai Pipeline
lbs	Pounds
LEPC	Local Emergency Planning Committee
LEPD	Local Emergency Planning District
LPG	liquid propane gas
LTF	Log Transfer Facility
LYSD	Lower Yukon School District
M/V	Motor Vessel

MINE	Mining Operations/Facilities
MP	Milepost
MSDS	Material Safety Data Sheet
NART	Northern Alaska Response Team
NH3	anhydrous ammonia
NRC	National Research Council (also National Response Center)
NS	North Slope subarea
NW Arctic	Northwest Arctic
NW	Northwest Arctic subarea
OE&P	Oil Exploration and Production
OILEX	Oil Exploration Facility
OILPD	Oil Production Facility
OILTERM	Oil Terminal Facility
PCB	polychlorinated biphenyl
PDF	portable document file
PERP	Prevention and Emergency Response Program (ADEC)
PIPE	Transmission Pipeline
PLMP	Pipeline Milepost
PWS	Prince William Sound
PWS	Prince William Sound subarea
QA/QC	Quality Assurance/Quality Control
REAA	Regional Educational Attendance Area
REF	Refinery Operation
RR	railroad
SARA	Superfund Amendments and Reauthorization Act
SART	Southeast Alaska Response Team
SE	Southeast Alaska subarea
SERC	State Emergency Response Commission
SITREP	Situation Report (DEC generated)
SPAR	Spill Prevention and Response Division (ADEC)
SQL	sequel server
Struct/Mech	Structural/Mechanical
T/B	tanker barge
T/V	Tanker Vessel
TANK	Tanker Vessel
TAPS	TransAlaska Pipeline System
TCSA	Tuntutuliak Community Service Association
TERM	Oil Terminal Facility
UAF	University of Alaska Fairbanks
USC	United States Code
USCG	United States Coast Guard
VMT	Valdez Marine Terminal
WE	Western Alaska subarea

Glossary

The following tables provide a quick reference to the general classification scheme used in the ADEC SPILL database for Causes, Facilities, and Substances.

Cause Classification

Cause Type	Cause
Accident	Collision/Allision
	Derailment
	Grounding
	Rollover/Capsize
	Well Blow-Out
Human Factors	Bilge Discharge
	Cargo Not Secured
	Human Error
	Intentional Release
	Overfill
	Sabotage/Vandalism
	Sinking
Other	Explosion
	External Factors
	Other
Structural/Mechanical	Containment Overflow
	Corrosion
	Crack
	Equipment Failure
	Erosion
	Gauge/Site Glass Failure
	Hull Failure
	Leak
	Line Failure
	Puncture
	Seal Failure
	Support Structure Failure
	Tank Failure
	Tank Support Structure Failure
	Valve Failure
	Vehicle Leak, All
Unknown	Unknown

Facility Classification

Category	Type	SubType	Definition
Transportation	Air Transportation	Aircraft	Includes air taxi, air charter, airline, and private aircraft
	Air Transportation	Airport/Airfield	Includes all airport/aircraft support services, hangars, airline maintenance facilities and offices
	Harbor/Port Facility		Commercial marinas, harbors, ports
	Oil Exploration	Offshore	Offshore oil exploration activities, including rillships, platforms, and ice islands
	Oil Exploration	Onshore	Onshore oil exploration activities
	Oil Production	Offshore	Offshore oil production platforms, including platforms and gravel islands
	Oil Production	Onshore	Onshore production wells, fields and pads
	Oil Production	Flow Lines	Includes all pre-gathering-center lines, regardless of contents
	Oil Production	Field Processing	Includes flow stations, gathering centers, gas conditioning facilities, and other field processing facilities
	Railroad Operation		Self-explanatory
	Transmission Pipeline		Crude and noncrude (refined) oil and gas pipelines and associated pump stations
	Vehicle		All land-based vehicles except railroads, unless considered part of a larger facility
Vessel	Vessel 400 GT and over	Other	Vessel operation 400 GT and over not otherwise listed; includes pleasure craft
	Vessel 400 GT and over	Barge	All barges including IPP regulated oil barges
	Vessel 400 GT and over	Cargo	All self-propelled cargo vessels 400 GT and over (i.e., excludes cargo barges)
	Vessel 400 GT and over	Fishing	Commercial fishing vessels, floating fish processors 400 GT and over
	Vessel 400 GT and over	Passenger	Vessels 400 GT and over carrying paying passengers, including ferries and cruise ships
	Vessel 400 GT and over	Tanker	Oil tank vessels
	Vessel under 400 GT	Other	Vessel operation under 400 GT not otherwise listed; includes pleasure craft
	Vessel under 400 GT	Cargo	All self-propelled cargo vessels under 400 GT (i.e., excludes cargo barges)
	Vessel under 400 GT	Fishing	Commercial fishing vessels, floating fish processors under 400 GT
	Vessel under 400 GT	Passenger	Vessels under 400 GT carrying paying passengers, including ferries and cruise ships
Storage	Cannery		Land-based fish processing operations
	Farm/Aquaculture		All farms, hatcheries, mariculture facilities, and related activities
Storage	Gas Station		All retail service stations which dispense gasoline and other fuels
	Laundry Service		Includes dry cleaners, laundromats, washeterias
	Log Processing		Includes veneer plants, sawmills, pulp mills and chipping operations

Facility Classification *(continued)*

Category	Type	SubType	Definition
	Logging Operation		Includes log transfer facilities (LTFs), sort yards, logging camps
	Maintenance Yard/Shop		Self-explanatory
	Mining Operation		Self-explanatory
	Crude Oil Terminal		Crude oil terminals and tank farms of any size (includes both regulated and unregulated facilities)
	Noncrude Oil Terminal		Noncrude oil terminals and tank farms of any size (includes both regulated and unregulated facilities)
	Power Generation		Power utilities and generators
	Refinery Operation		Refined (noncrude) oil processing
	Residence		Private residence
	School		Self-explanatory
	Telecommunications		Includes repeater stations, other communications-related sites
	Water/Wastewater Facility		Self-explanatory
Other	Drug Lab		Illicit methamphetamine laboratories
	Firing Range		Self-explanatory
	Landfill/Dump		Includes permitted landfills, legal and unauthorized dumps
	Other		Non-vessel operation not otherwise listed
	Salvage/Wrecking Yard		Self-explanatory
	Unknown		Self-explanatory

Substance Classification

Crude Oil
- Crude

Extremely Hazardous Substance *(Common to Alaska)*
- Acrolein (Inhibited)
- Acrylamide
- Aldrin
- Ammonia (Anhydrous)
- Chlordane
- Chlorine
- Endrin
- Formaldehyde
- Furans
- Hydrazine (Anhydrous)
- Hydrochloric Acid
- Hydrofluoric Acid
- Hydrogen Cyanide
- Hydrogen Peroxide
- Hydrogen Sulfide
- Hydroquinone (Solid)
- Nitric Acid (>40% Solution)
- Phenol
- Phosphoric Acid, Dimethyl 4-(Methylthio)
- Phosphorus (Solid)
- Phosphorus (Solution)
- Sodium Azide (Solid)
- Sodium Cyanide (Solid)
- Sodium Cyanide (Solution)
- Sulfur (Dioxide)
- Sulfuric Acid
- Toluene 2,4-Diisocyanate
- Toxaphene

Hazardous Substance
- Acid, Other
- Arsenic
- Bases
- Biocide
- Calcium Chloride (Solid)
- Calcium Hypochlorite (Solid)
- Caustic Alkali Liquids (Caustic Soda)
- Compressed Gases
- Corrosion Inhibitor
- DDT
- Dieldrin
- Dioxins
- Drag Reducing Agent
- Drilling Muds
- Emulsion Breaker
- Ethyl Alcohol (Ethanol)
- Ethylene Glycol (Antifreeze)
- Freon (Dichlorodifluoromethane All Types)
- Glycol, Other
- Halon
- Heptachlor
- Herbicide/Pesticide
- Hexachlorobenzene (also a pesticide)
- Insecticide
- Lead
- Magnesium Oxide (Slurry)
- Methyl Alcohol (Methanol)
- Mirex
- Other
- PCB
- Pentachloroethane
- Perchloroethylene
- Propylene Glycol
- Reserve Pit Fluids
- Sodium Hypochlorite
- Solvent
- Sulfur (Solid)
- Tetrachloroethene
- Therminal
- Toluene
- Trichloroethene
- Urea (Solid)
- Zinc
- Zinc Concentrate
- Zinc Slurry

Noncrude Oil
- Asphalt
- Aviation Fuel
- Ballast Water (containing oil)
- Bilge Oil
- Bunker (all types)
- Creosote
- Diesel
- Engine Lube Oil
- Gasoline
- Grease
- Hydraulic Oil
- Kerosene
- Naphtha
- Natural Gas
- Natural Gas Liquids
- Other
- Propane (LPG)
- Synthetic Oil
- Transformer Oil
- Transmission Oil
- Turbine Fuel
- Waste Oil (all types)

Process Water
- Process Water
- Produced Water
- Seawater
- Source Water

Unknown
- Unknown

Appendix B: Significant Releases *(July 1, 1995 - June 30 , 2005)*

1995

Month	Spill Date	Spill Name	Spill Number
July	07/2005/1995	F/V Mattie O	95279918601
	07/06/1995	AVEC Hooper Bay	95279918701
	07/12/1995	Petro Marine Inc.	95110119301
	07/17/1995	Pacific Star Seafood	95239919805
	07/20/1995	M/V Legend of the Sea	95119920101
	07/22/1995	Ketchikan Pulp Co., Thorne Bay	95119920301
	07/22/1995	M/V Northern Wind	95259920302
	07/23/1995	Regent Star Cruise Ship	95229920401
	07/24/1995	Taku Smokeries	95119920501
	07/26/1995	Nightmute Hazmat	95279920701
August	08/03/1995	Montana Creek	95119921501
	08/03/1995	F-15 Crash	95309921501
	08/09/1995	Princess Tour Bus	95210122101
	08/10/1995	F/V Anna K	95119922201
	08/12/1995	Double “R” Trucking	95119922401
	08/17/1995	M/V Rotterdam	95119922901
	08/21/1995	Kuskokwim River	95279923302
	08/22/1995	Norquest Fisheries	95119923401
	08/24/1995	Ninilchik River Bridge	95239923601
	08/30/1995	Sherstone Tug Crane	95229924201
September	09/05/1995	Alaskins	95110124901
	09/07/1995	Wood River	95269925001
	09/11/1995	Tug Tyee	95119925401
	09/23/1995	Valdez Marine Terminal	95229926602
	09/24/1995	Southcentral Floods 95	95239926702
	09/26/1995	F/V Hoover	95119926903
October	10/01/1995	Magill Trailer Park	95119927401
	10/01/1995	F/V Rush	95119927402
	10/10/1995	A-10 Crash	95309928301
	10/11/1995	Chilkoot Lumber	95119928401
	10/11/1995	Ship Creek, Anchorage	95239928401
	10/16/1995	Golovin Gasoline	95389928901
	10/20/1995	Fisher Fuels	95309929301
November	11/22/1995	Juneau Travelodge	95119932601
December	12/01/1995	Tug Tongass	95119935501
	12/05/1995	KPL-Tesoro Tank 406	95239933901
	12/06/1995	Great Western Chemical muriatic acid	95309934001
	12/06/1995	UAF Bristol Bay Campus	95269934001
	12/10/1995	Ecology Logging Tractor	95239934401
	12/12/1995	Dutra-Seward Spill	95239934601
	12/17/1995	Angoon Propane	95119935103

1996

Month	Spill Date	Spill Name	Spill Number
January	01/31/1996	F/V Blue Fox	96249903101
February	02/07/1996	F/V Ambition	96259903801
	02/20/1996	St. Paul Bird Kill-M/V Citrus	96259905101
	02/29/1996	Alaska Railroad	96309906002
	02/29/1996	F/V All American	96259906001
March	03/16/1996	Akutan Volcano	NA
	03/26/1996	Kobuk Washeteria	96389908601
April	04/15/1996	Ketchikan Pulp Corporation	96119910601
	04/20/1996	APL Check Valve 92	96229911101
	04/21/1996	Horseshoe Lake	96239911201
	04/21/1996	Iliaska Lodge	96269911201
	04/22/1996	Army Camp Hatcher Pass	96239911301
	04/24/1996	Delta Airlines	96239911501
	04/25/1996	Alaska Housing Authority	96309911501
	04/25/1996	T/V ARCO Spirit	96229911601
May	05/01/1996	Mat-Su Abandoned Drum	96239913501
	05/05/1996	Kake	96119912601
	05/18/1996	Green Paint Iliuliuk Creek	96259913901
	05/24/1996	Cape Smythe Air	96399914501
	05/25/1996	Chena River	96309914601
	05/28/1996	Dept. of Transportation and Public Facilities, Juneau	96119914501
	05/31/1996	Crooked Creek	96279915201
June	06/01/1996	Big Lake	96239915301
	06/08/1996	Bayview Subdivision, Juneau	96119916002
	06/17/1996	Tuntutuliak Tank Farm	96279916901
	06/24/1996	Little Susitna River	96239917601
July	07/02/1996	Shemya Power Plant	96259918401
	07/14/1996	Great Pacific Seafood, Whittier	96239919601
	07/19/1996	Bethel Seawall	96279920101
	07/21/1996	Tetlin Diesel Spill	96228918401
	07/25/1996	Unocal Baker Platform	96239920701
	07/25/1996	Unocal Baker Platform	96239920701
	07/26/1996	Kincolith, B.C. (Portland Inlet)	96119920801
August	08/09/1996	Unocal Steelhead Platform	96239922201
	08/14/1996	Homer Small Boat Harbor	96239922701
	08/21/1996	Kodiak Womans Bay	96249923401
	08/23/1996	Ketchikan Pulp Corporation, Brinks Stack	96119923601
September	09/05/1996	Ketchikan Pulp Corporation	96119924901
	09/24/1996	U.S. FWS Housing Unit	96269926801
	09/26/1996	Mendenhall Peninsula Road	96119927001
October	10/05/1996	Trading Bay Crude Oil Pipeline	96239927901
	10/08/1996	Valley Lumber, Juneau	96119928201
	10/16/1996	F/V Pacific Dawn, Pelican	96119929003
	10/21/1996	Ketchikan Pulp Corporation	96119929502
	10/26/1996	Ketchikan Public Utilities	96119930001
	10/30/1996	Elim	96389980401
November	11/15/1996	Navy Arctic Submarine Laboratory, Wales	96389932001
	11/27/1996	Thompson Pass, PLMP 776	96229933201
December	12/04/1996	ZB-304, Yakutat	96119933901
	12/05/1996	Texaco Ethanol Spill-POA	96239934001
	12/09/1996	Barrow Public School	96399934401
	12/17/1996	Kodiak USCG Air Station	96249935201

	12/25/1996	M/V Baneasa	96258936001

1997

Month	Spill Date	Spill Name	Spill Number
January	01/9/1997	Whittier DFSC JP8 Spill	97239902902
February	02/15/1997	Juneau (Downtown)	97119904601
	02/25/1997	Overseas Chicago	97229905601
	02/27/1997	Crowley Barge Oregon	97239905801
March	03/06/1997	Steelhead Platform	97239906501
	03/17/1997	Arco Drill Site 4	97399907601
	03/24/1997	Betty King Alley, Ketchikan	97119908303
April	04/02/1997	Pan Dynamic Incident	97249909201
	04/03/1997	Star of Kodiak Fire	97249909301
	04/23/1997	Whittier Waste Oil Spill	97239911302
	04/25/1997	East Point Seafood Facility Fire	97259911501
	04/30/1997	West Tank Farm Catchment	97229912001
May	05/02/1997	Signature Pipeline Break	97239912201
	05/10/1997	George Inlet, Ketchikan	97119913001
	05/16/1997	Barge Boxer	97269913601
	05/21/1997	Snettisham Power Plant	97119912201
June	06/22/1997	Milne Point	97399917301
	06/25/1997	F/V Liz	97119917701
	06/25/1997	F/V Liz, Thorne Bay	97119917701
	06/26/1997	Gambell, St. Lawrence Island	97389917701
July	07/15/1997	Kittens Islands	97119919601
	07/15/1997	Arco Kuparuk	97399919601
	07/15/1997	Kittens (Admiralty Island)	97119919601
	07/17/1997	Elmendorf Hardstand	97239918901
	07/17/1997	Roosevelt Drive, Hoonah	97119919801
	07/18/1997	Savoonga	97389919901
	07/20/1997	Tsiu River Capsized F/V	97229920101
	07/21/1997	Forty Niner Barge FNT 255	97229920201
	07/22/1997	Alaska Marine Lines, Ketchikan	97119920301
	07/22/1997	AML CRS-2	97119920301
August	08/14/1997	Tesoro Port 800	97239922601
	08/15/1997	Spirit of Alaska	97119922701
	08/18/1997	KPL Transfer 818	97239923001
	08/18/1997	CRS-2, Haines	97119923001
	08/21/1997	Big State Logistics (Richardson Highway)	97309923301
	08/22/1997	Tlingit-Haida Regional Electrical Authority	97119923401
September	09/04/1997	Elmendorf 10” Flight Line	97239924701
	09/05/1997	Tlingit-Haida Regional Electrical Authority	97119924801
	09/07/1997	Dixie Avenger	97229925001
	09/08/1997	F/V Ronny	97259925101
	09/08/1997	USS Hewitt	97119925102
	09/11/1997	Wards Cove Packing Ammonia	97119925401
	09/16/1997	Ninilchik Sulfur Spill	97239925901
	09/20/1997	North Tongass Highway, Ketchikan	97119926301
October	10/04/1997	Coastal Trader, Craig	97119927701
	10/27/1997	Elmendorf AERO Club	97239930001

November	11/10/1997	AK Terminals Sterling Hwy MP 43.5	97239931401
	11/11/1997	Colville Inc. (Dalton Highway)	97399931501
	11/15/1997	Riverways 10 (Yutana Barge Lines)	98389917501
	11/25/1997	Wainwright Water Plant	97399932902
	11/26/1997	Kuroshima	97259933001
December	12/07/1997	Lynden Parks Hwy MP 52.0	97239934101
	12/10/1997	Hooper Bay Fuel Oil	97279934401
	12/13/1997	TOSCO tank farm, Ketchikan	97119934702
	12/18/1997	M/V Red Munson	97229935201

1998

Month	Spill Date	Spill Name	Spill Number
January	01/05/1998	Glacier Marine Lube Oil	98119900501
	01/28/1998	Pennock Island Drum	98119902802
February	02/06/1998	Unocal King Salmon Platform	98239903701
	02/12/1998	Alaska I	98259904301
	02/22/1998	M/V Hekabe	98259905301
	02/24/1998	Ketchikan Pulp Company	98119805502
	02/27/1998	T/V Arco Texas	98229905801
March	03/17/1998	Ekwok Tank Spill	98269907601
	03/20/1998	Emmonak LYSD Tanks	98279907901
	03/23/1998	Trucano Crane	98119908201
April	04/16/1998	Overseas Juneau	98229909601
	04/17/1998	M/V Samaqu	98119910701
	04/24/1998	F/V Banner	98119911401
May	05/08/1998	Kootznoowoo Cholmondeley Camp	98119912801
	05/08/1998	Vance	98119912802
	05/15/1998	Polaris School	98239913501
	05/29/1998	Kotlik Elementary School	98279914901
June	06/05/1998	Yakutat Ammonia	98119915601
	06/15/1998	Fairbanks Drug Lab	98309916601
	06/16/1998	Marine View Chemical Spill	98119916703
July	07/01/1998	Icicle Seafoods	98239918201
	07/08/1998	M/V Milos Reefer	98279918901
	07/13/1998	Peter Pan Ammonia Release	98269919301
	07/14/1998	Juneau Airport STE-1	98119919502
	07/24/1998	CEM Leasing Truck Rollover	98309920501
August	08/07/1998	Palmer Correctional Center	98239921401
	08/14/1998	BWT Hose Release	98229922501
	08/14/1998	Coastal Marine Barge Grounding	none assigned
	08/19/1998	Faulkner Walsh Tug	98279922701
	08/27/1998	Lily Lake Condos	98249922201
September	09/01/1998	Women's Bay Grounding	98249924401
October	No Sitreps		
November	11/03/1998	Z Pad	98399930301
	11/05/1998	White Pass & Yukon Oil Separator	98119930302
December	No Sitreps		

1999

Month	Spill Date	Spill Name	Spill Number
January	01/06/1999	Swanson River	99239900601
	01/13/1999	Aurora Harbor Mystery Spill	99119901301
	01/14/1999	Abacus Mineral Corporation	99119801401
February	02/03/1999	Alaska Railroad Diesel Spill	99239903401
	02/06/1999	Chesapeake Trader	99239903701
	02/17/1999	Valdez Petroleum Terminal	99229904801
	02/20/1999	M/V Hekifu	none assigned
	02/25/1999	Tuluksak Traditional Council Power Plant	99279905601
March	No Sitreps		
April	04/15/1999	Tesoro Hot Oil	99239908804
	04/16/1999	Power Creek Avalanche	99229910501
May	05/04/1999	Petro Marine	99119812402
	05/06/1999	Tug Mogul	99119812601
	05/06/1999	Tesoro KPL Rupture	99239912501
	05/08/1999	F/V Controller Bay	99259912801
	05/10/1999	M/V Red Fin	99259913001
	05/13/1999	Whittier Storm Drain	99239913301
	05/27/1999	Little Diomede	99389914701
	05/27/1999	Goodnews Bay	99279910501
	05/28/1999	Soldotna Chlorine Release	none assigned
June	06/06/1999	F/V Caprice	99239915701
	06/11/1999	ARCO DS 14	99399916101
	06/12/1999	M/V Wilderness Explorer	99119916301
	06/16/1999	BT Alaska	99229916701
	06/17/1999	Anna Platform	99239916801
	06/22/1999	Service Truck Rollover	99239917301
July	07/07/1999	Igiugig Power Plant	99269918801
	07/08/1999	Tanker Vessel Denali	Potential
	07/08/1999	Naval Well #8 -- Umiat	99399918901
	07/14/1999	Valdez Marine Terminal Tank 52-54	99229919501
	07/27/1999	Spirit of 98	99119920801
August	08/04/1999	Ketchum Jet A	99239921601
	08/16/1999	Pump Station 12 Leak	99229922801
	08/20/1999	Unocal Explosion	99239923201
September	09/05/1999	International Aviation Jet Fuel Spill	99239924801
	09/07/1999	Service Oil&Gas Tanker Truck Rollover #2	99239925001
	09/07/1999	Weaver Brothers Truck Rollover	99309925001
	09/10/1999	Kwigillingok Washeteria Spill	99279925301
	09/13/1999	Fairbanks airport CSS-1 Spill	99309925601
	09/16/1999	Seldovia Cannery Ammonia Release	99239925901
	09/22/1999	ROK Trucking Rollover	99239926501
	09/22/1999	F/V Lady L grounding	99229926501
	09/30/1999	Yutana Barge Mekoryuk	99279927301
	09/30/1999	Japan radiation release	None assigned
October	10/07/1999	Duke Island Ordinance	None assigned
	10/19/1999	Cordova Waste Oil	99229929201
	10/23/1999	Unocal Dillon Platform	99239929801
	10/31/1999	Alaska Railroad Derailment	99239930401

November	11/06/1999	Alaska Railroad Spills	99309931001
	11/06/1999	Alaska Railroad Spills	99309931002
	11/08/1999	F/V Mitrophenia	99249931001
	11/21/1999	Unocal Produced Water	99239932501
	11/30/1999	Seldovia High School Fuel Spill	99239933402
December	12/02/1999	Freight Barge HOMEBAR 1	99239933601
	12/14/1999	Mystery Sheen at Alyeska Marine Terminal	99229934801
	12/22/1999	Alaska Railroad Derailment, Gold Creek	99239935601

2000

Month	Spill Date	Spill Name	Spill Number
January	01/04/2000	Tug Malolo	None assigned
	01/05/2000	Ivanoff Bay Power Plant	00269900301
	01/19/2000	Tank Barge ENERGIZER	00239901901
February	02/01/2000	Alaska Railroad Anchorage Yard Roundhouse	00239903202
	02/02/2000	Sportsman's Inn - Whittier	00229903401
	02/03/2000	Atmautluak Washeteria	00279903302
	02/07/2000	Gambell Presbyterian Church	00389903801
	02/10/2000	Sunshine Oil/Petro Marine Tank Truck	00119904101
	02/11/2000	F/V American Star	00259904201
	02/18/2000	Alaska Nitrogen Products	00239904901
	02/21/2000	T/V Seariver Benicia	00229905201
	02/25/2000	M/V Pacsun	00119905701
	02/27/2000	Valdez Propane Release	None assigned
March	03/01/2000	Auke Bay PO Mystery Spill	00119905601
	03/08/2000	Tesoro Ethanol, Anchorage	00239906701
	03/09/2000	North Pacific Propane Leak, Valdez	00229906901
	03/15/2000	CSX Propane, Kodiak	00249907501
	03/20/2000	Gulkana Glacier	00309908001
	03/24/2000	Nautilus Seafoods - ammonia release, Valdez	00229908401
	03/24/2000	West Coast Aviation, Unalakleet	00389908401
April	04/06/2000	Williams Tank 1001 Fire	00239909701
	04/13/2000	Tesoro Pipeline Terminal -- Anchorage	00239910401
	04/17/2000	Healy Lake Spill	00309910501
	04/17/2000	ARRC Tank Car ARR 9306	00239910801
	04/20/2000	F/V Destiny	00249911101
	04/20/2000	Chena Hot Springs Road Permafrost Test Facility	00309911101
	04/20/2000	F/V Starrgavin	00259911101
	04/28/2000	Lower Yukon School District-Pitka Point Spill	00279911801
	04/29/2000	Ivanof Bay Power Plant Spill #2	00259912001
May	05/14/2000	Stevens Village Release	00309913101
	05/18/2000	Inlet Fisheries -- Near Bethel	00279913401
	05/22/2000	Valdez Marine Terminal, Berth 4	00229914301
June	06/08/2000	Airland Transport Truck Spill	00239915801
	06/10/2000	Savoonga Post Office	00389916101
	06/19/2000	Weaver Brothers, Mile 75 Seward Hwy	00239917101
	06/20/2000	Aleknagik Washeteria	00269917201
	06/23/2000	Unocal Swanson River Field Produced Water	00239917301
	06/28/2000	Newport Petroleum Inc. Barge 225	00249918001
	06/30/2000	Alyeska Marine Terminal	00229918102

July	07/06/2000	Summit Lake Truck Rollover	00309918801
	07/12/2000	ARRC derailment, Mile 152.8	00239919401
	07/24/2000	T/V POLAR CALIFORNIA	00229920602
	07/26/2000	KPL Recirculation Line	00239920801
	07/26/2000	Chefornak Tank Farm	00279920801
August	08/02/2000	Valdez Marine Terminal-West Tank Farm	00229921501
	08/11/2000	Inlet Fish Producers' Barge Harvester	00279922201
	08/13/2000	Grounded Qayuuttaq Dredge	00399922301
	08/21/2000	BP Gathering Center	00399923401
September	09/01/2000	Unocal - Swanson River Produced Water	00239924502
	09/11/2000	Tug Millennium Star	00259925501
	09/15/2000	Duck Creek Heating Oil Leak	00991124101
	09/20/2000	Whittier Harbor Fertilizer Spill	00239926401
	09/20/2000	Seward Highway MP 109	00239926402
	09/21/2000	Alaska Nitrogen Products Ammonia Release	00239926501
	09/27/2000	Monashka Bay Fish Kill	None Assigned
	09/27/2000	Williams Glycol Spill	00309926401
October	10/02/2000	Ouzinkie Shrimp Kill	None Assigned
	10/10/2000	Red Dog Mine Lead Concentrate	00389928301
	10/11/2000	5175 Thane Road, Juneau	00991128501
	10/21/2000	Polar Fuels Spill	00309929501
	10/23/2000	T/V SeaRiver North Slope	00229929701
November	11/02/2000	Air Land Transport Rollover	00309930701
	11/06/2000	Alaska Pacific Seafood NH3 Release	00249931101
	11/20/2000	New Port Walter Bunker Spill	00119932301
	11/28/2000	Cross Timbers Onshore Facility	00239933201
	11/29/2000	Tuntutuliak-TCSA Bulk Tank Spill	00279933301
December	12/11/2000	Whitestone Logging Inc., Hoonah	00119934401
	12/19/2000	Sag River DOT Maintenance Camp Spill	00399935201
	12/20/2000	North Pacific Fuel	00259035401
	12/21/2000	Gagman Heating Oil Spill	00229935401
	12/26/2000	HB&R Tank Overfill	00399935901
	12/28/2000	Red Dog Mine Zinc Spill	00389936301

2001

Month	Spill Date	Spill Name	Spill Number
January	01/04/2001	Mappa Inc. Laboratory Fire	01309900401
	01/10/2001	Gold Rush Estates Fuel Spill	01309901001
	01/16/2001	Northstar Containment Cell #6	01399901601
	01/19/2001	F/V Miss Marie	01259901901
	01/20/2001	Elim Water Plant	01389902001
	01/22/2001	Injection Well R Pad Well 3AI	01399902201
	01/23/2001	Nome D Street Spill	01389902301
	01/25/2001	Phillips Home Heating Oil Spill	01269902501
	01/30/2001	F/V Veter	01229903001
February	02/05/2001	Dolly Varden Mystery Sheen	01239903601
	02/12/2001	T/V SeaRiver Benicia	01229904101
	02/16/2001	42 Mile Red Dog Mine Zinc Spill	01389904701
	02/19/2001	Drill Site 7, Well #8, Prudhoe Bay	01399905001
	02/20/2001	GC1 Flow Line, Prudhoe Bay	01399905002

	02/20/2001	Chignik Norquest Seafoods	01269905101
	02/20/2001	Windray Barge	01269904701
March	03/01/2001	Amodo Home Heating Oil Spill	01249904101
	03/06/2001	Grind & Inject Facility, Surfco Pad	01399906501
	03/07/2001	Eielson AFB, Building 6248	01309906601
	03/27/2001	HAGO line near Tank 901	01309908201
	03/28/2001	Mill Door M-4 Slurry Spill	01389908601
April	04/03/2001	Williams CU2 blend bldg.	01309909201
	04/16/2001	CPF1 Produced Water Spill	01399910501
	04/13/2001	3I Seawater Pipeline	01399908401
	04/16/2001	Tesoro Refinery Pipeline	01239910302
	04/18/2001	University Park Day Tank Spill	01309910701
	04/23/2001	Well 1-01/J19MPI Crude Oil	01399911301
	04/25/2001	Woodbine Cannery Gasoline Spill	01269911401
	04/25/2001	Cordova Bunker Tank Spill	01229911401
	04/26/2001	Chignik Pride Fisheries Generator Spill	01269911501
	04/30/2001	Valley Park Chlorine	01119912001
May	05/08/2001	T/V SeaRiver North Slope	01229912801
	05/09/2001	Tank Barge Chilkat Warrior	01239912801
	05/14/2001	Cook Inlet Mystery Sheen	01239913401
	05/16/2001	Cross Timbers Outfall Line	01239913601
	05/21/2001	Moody's Marina, Aleknagik	01269914101
	05/21/2001	Fairbanks Airport Ethylene Glycol	01309913901
	05/25/2001	Mabah	None Assigned
	05/29/2001	T/B Chilkat Warrior	01239914901
June	06/04/2001	Yutana Barge RiverWay 10	01309915301
	06/11/2001	Cape Simpson Well #31	01399915801
	06/14/2001	Nakeen Abandoned Cannery	01269921201
	06/21/2001	Eureka Dome Rollover	01309917201
	06/26/2001	Fisherman's Bend Diesel Line	01119917701
	06/28/2001	Donohue's Marina Diesel Line	01119917901
	06/29/2001	Seward-Sterling Hwy "Y"	0123991800
July	07/02/2001	Umiat Seep	01399918001
	07/07/2001	DS 1 Flowline, Prudhoe Bay	01399918801
	07/17/2001	Nabors Rig 7ES Fire	01399919801
	07/20/2001	Red Dog Mine Zinc Spill	01389920101
	07/21/2001	DS L2 Common Line	01399920201
	07/26/2001	F/V Excursion	01259920701
	07/26/2001	F/V Vanguard	01229920701
	07/27/2001	F/V Ben B	01119920801
	07/31/2001	Cook Inlet Mystery Sheen	01239921201
August	08/01/2001	Tesoro Pipeline, Mile 13.75	01239921202
	08/01/2001	Valdez Marine Terminal, Berth 4 Loading Arm	01229921201
	08/01/2001	F/V Ellis H. Gracie	01119921402
	08/04/2001	F/V Windy Bay	01229921601
	08/10/2001	Milne Point G-Pad Mud Spill	01399922201
	08/19/2001	Nabors 16E Mud Spill	01399923102
	08/21/2001	Lake Nunavaugaluk Diesel Spill	01269923301
	08/24/2001	F/V Revenge II	01119923601
	08/27/2001	Richardson Hwy MP 215 Tanker Rollover	01309923901
	08/27/2001	F/V Western II	01009923901
	08/28/2001	F/V Eveline S.	01009924001

September	09/04/2001	Kenai River Mystery Sheen	01239924703
	09/07/2001	Tesoro-AIA Pipeline	01239925001
	09/11/2001	Valley Park CO2 release, Ketchikan	01119925401
	09/12/2001	Unocal King Salmon Platform	01239925501
	09/13/2001	F/V Cherokee Maid	01991125601
	09/17/2001	Williams Glycol Release	01309926001
	09/19/2001	Seley Dock Facility, Ketchikan	01119926201
	09/25/2001	Alpine Airstrip	01399926801
October	10/01/2001	Alyeska Pump Station 5 Crude Release	01399926501
	10/02/2001	North Pacific Processors, Cannery	01229927501
	10/04/2001	TAPS Bullet Hole Release	01309927701
	10/29/2001	Sterling Hwy Truck Rollover	01239930201
	10/30/2001	U Pad Truck Rollover	01399930301
November	11/02/2001	Quadra Xylene Spill	01309930501
	11/27/2001	Unocal Dillon Platform	01239933101
December	12/06/2001	Amanda B	01119933801
	12/10/2001	Deering Diesel Spill	01389934401
	12/10/2001	Mendenhall Wastewater Treatment Plant, Juneau	01119934401
	12/15/2001	AHTNA Fuel Spill	02229900401
	12/18/2001	Alyeska Pump Station 6 Diesel Fuel Release	01309935101

2002

Month	Spill Date	Spill Name	Spill Number
January	01/01/2002	Alyeska Brine Release, Pump Station 1	02399900101
	01/03/2002	Williams Refinery Kerosene Spill	02309900301
	01/08/2002	Crab Bay Bunker Barge	02119900801
	01/12/2002	Osborne Construction - Chevak	02279901201
	01/12/2002	Lily Lake, Kodiak	02249901401
	01/14/2002	F Pad Well #48	02399901401
	01/16/2002	T/V SeaRiver Baytown	02229901601
	01/29/2002	Swanson River Well 21-34 Flow Line	02239902901
February	02/01/2002	Teller School Day Tank Overfill	02389903201
	02/03/2002	North Star Flare Release	02399903401
	02/13/2002	Valdez Petroleum Terminal	02229904401
March	03/13/2002	Curyung Native Village Council Spill	02269907201
	03/18/2002	Circle Lake Road, Homer	02269907202
	03/19/2002	City of Manokotak Day Tank	02269907801
	03/22/2002	Mountain Village #75 Water Wellhouse	02279908101
April	04/7/2002	Drill Site 2A, Kuparuk	02399909701
	04/10/2002	Juneau Airport Crash	02119910003
	04/17/2002	H Pad Well #21	02399910701
	04/17/2002	VMT Ballast Water Manifold Spill	02229910701
	04/20/2002	King Salmon Platform Fire	none assigned
	04/22/2002	Koliganek Tank Farm	02269911201
	04/28/2002	Eureka Roadhouse	02239912101
	04/29/2002	Williams Refinery Sulfolane/Naphtha Spill	02309911901
	04/29/2002	New Stuyahok School Seep	02269911901
May	05/05/2002	City of Ekwok Waste Oil	02269912601
	05/06/2002	ARRC Loco 2808, Seward Yard Spill	02239912101
	05/12/2002	Nulato School Tank Release	02309913201

	05/15/2002	Nuiqsut Landfill Spills	02399913301
	05/15/2002	Nuiqsut Store	02399913301
	05/23/2002	Leask HHOT Spill Klawock	02119914301
June	06/11/2002	Portage Creek Council Spill	02269916201
July	07/25/2002	Petro Marine Diesel Spill	02119920601
	07/26/2002	FV Arctic Sun	02119920701
	07/26/2002	Big State Coldfoot Release	02309920701
	07/27/2002	Barrow NARL Fuel Spill	02399920801
August	08/02/2002	Lisburne Production Center Release	02399921301
	08/07/2002	College Manor Release	02309921801
	08/16/2002	BPX A Pad, Well #22 Explosion	02399922801
	08/24/2002	Qanirtuuq Princess	02279923601
	08/29/2002	"Little Red" Truck Rollover at Kuparuk	02399924101
	08/31/2002	Sourdough Express Rollover	02399924301
September	09/08/2002	AT&T Repeater Site	02309925101
	09/27/2002	Alaska Pacific University Chlorine Release	02239927001
October	10/08/2002	Kivalina Barge Grounding	02389928101
	10/08/2002	F/V Avalon	02119928201
	10/11/2002	Port Graham, Chlorine Cylinders	02239921103
November	11/03/2002	Denali Fault Earthquake Response	None assigned
	11/12/2002	F/V Genei Maru Grounding	02249931401
December	12/24/2002	T/V SeaRiver Bristol Bay Ballast Tank	02229935801

2003

Month	Spill Date	Spill Name	Spill Number
February	02/03/2003	Kongiganak School	03279903601
	02/04/2003	Crystal Lake Hydroelectric Power Plant	03119903501
	02/12/2003	F/V Second Wind Grounding	03119904301
	02/15/2003	Gambell IRA Tank Farm Release	03389904601
	02/18/2003	F/V Myra Jean Sinking	03229904901
March	03/01/2003	MCC Fuel Island	03399906001
	03/13/2003	Conoco Phillips Chemical Spill	03239907201
	03/21/2003	F/V Bering Sea grounding	03119908001
April	04/13/2003	Phillips 1H Manifold Building Release	03399910301
	04/14/2003	Kuparuk Seawater Line Release	03399910401
May	05/12/2003	Harvester Barge	03279913201
	05/16/2003	Omni Building, Petersburg	03119913601
	05/27/2003	LDF (GC1) Flow Line Spill	03399914701
June	06/25/2003	F/T American Eagle	03239917601
July	07/01/2003	F/V Destiny	03259918201
	07/08/2003	Snowball Express Asphalt Spill	03239918901
	07/15/2003	Mystery Sheen in Esther Passage	03229919501
	07/24/2003	F/V Lewis and Clark, Sinking at Dock	03239920502
	07/31/2003	McGrath Mystery Spill	03279921201
August	08/07/2003	F/V Chichagof Grounding	none
	08/08/2003	F/V Jamie D	03229922001
	08/18/2003	F/V Valiant Maid	03229923001
	08/20/2003	F/V Donna Ann	03239923202
	08/25/2003	Peter Pan Chlorine	03259923701
	08/25/2003	F/V Decade	03259923702

	08/26/2003	F/V Orcrist	03229923801
	08/29/2003	Big State Logistics	03239924101
September	09/05/2003	REEL TIME Sinking	03119924801
	09/18/2003	Chester Creek Foam	none
October	10/08/2003	Moose Creek School Bus Accident	03309928101
	10/15/2003	F/V Raven	03259928801
November	11/12/2003	H&H Contractors gasoline release	03309931601
December	12/30/2003	AEA Akiachak Tank Farm	03279936401

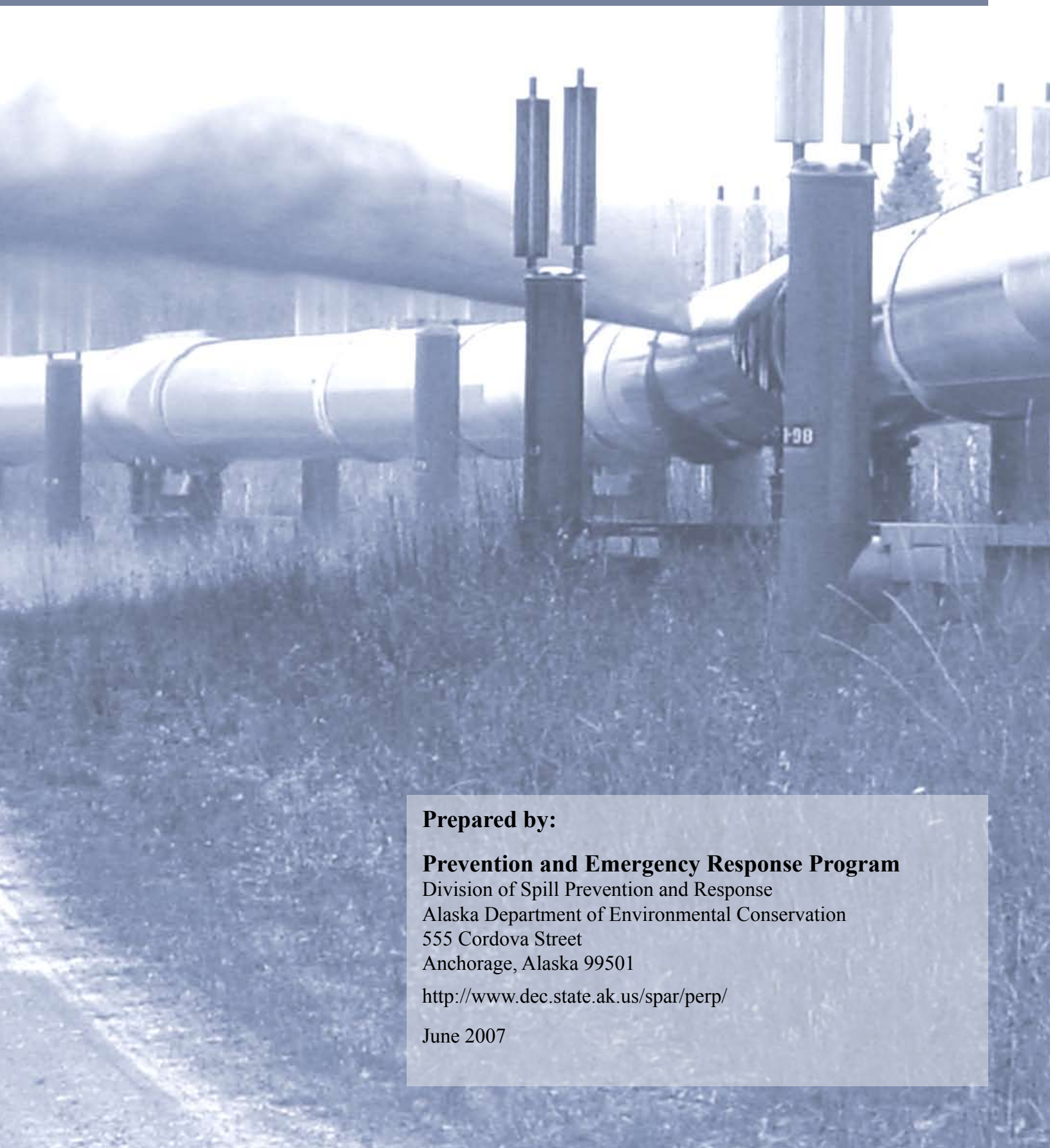
2004

Month	Spill Date	Spill Name	Spill Number
January	01/13/2004	Big State Logistics, MP 75 Richardson	04229901301
	01/14/2004	Taku Oil Diesel Spill, Juneau	04119901401
	01/24/2004	Red Dog Process Water	04389902401
February	02/03/2004	F/V Wild Coo	04119903401
	02/03/2004	City of Unalaska Home Heating Oil	04259903401
	02/10/2004	Delta Western, Haines	04119904101
	02/12/2004	EAFB Product Recovery Tank Spill	04239904301
	02/25/2004	Eielson Air Force Base A10 Jet Crash	04309905601
	02/28/2004	Kuparuk Topping Unit Naphtha Release	04399905901
	02/29/2004	Agrium Plant #1 Ammonia Release	04239906001
March	03/04/2004	Big State Logistics Tank Overfill	04309906301
	03/10/2004	F/T Aurous Ammonia Release	04239907001
	03/11/2004	Kongiganak Power Plant	04279907201
	03/12/2004	Pelican Seafoods Day Tank	04119907102
	03/16/2004	Point Hope Day Tank Overfill	04399907601
	03/17/2004	Kuparuk Produced Water Line	04399907701
April	04/20/2004	Norquest Seafoods Ammonia Release	04119911101
	04/28/2004	Tug Pathfinder – Jack Bay	04229911901
May	05/10/2004	M/V LeConte Grounding	04119913101
	05/12/2004	Kuparuk 2M Pad Produced Water Spill	04399913301
June	06/05/2004	City of Galena diesel spill	04309915701
	06/09/2004	M/V Captain Jack Grounding	04119916102
	06/13/2004	Nautilus Ammonia Release	04229916501
	06/16/2004	M/V Hayden Bay Grounding	04119916801
	06/18/2004	BPXA Flow Station 2	04399917001
	06/20/2004	Interior Fuels Truck Rollover	04309917201
	06/20/2004	Barge W. J. Carbon Fire	none
	06/22/2004	F/V Nesteby	04119917401
	06/23/2004	Tender Vessel Dancer Ammonia Leak	04119917501
	06/27/2004	F/V Steelhead FREON22 Release	04229917901
July	07/15/2004	Kuparuk 2M Produced Water Spill	04399919701
	07/28/2004	Arctic Enterprise, Ammonia Release	04259921001
	07/31/2004	Clipper Odyssey Grounding	04259921201
August	08/05/2004	F/V Pro“V”ision Aground - Kodiak	04119921901
	08/06/2004	F/V Tarrissa Jean C - Kodiak	04249921901
	08/06/2004	F/V Mitkof Sinking	04119921901
	08/08/2004	Nautilus Seafoods - Ammonia Release	04229922101
	08/08/2004	F/V JAVA W - Kodiak	04249922101
	08/11/2004	Nana-Lynden Red Dog Truck Rollover	04389922401

September	09/08/2004	Askinuk Tank Farm	04279925201
	09/14/2004	F/V Royal Flush, Grounding	04119925901
	09/21/2004	DeHarts Marina/Fuel Dock, Juneau	04119926501
October	10/04/2004	Nana-Lynden Diesel Spill	04389927601
	10/07/2004	MV Blue Star Grounding	04119928301
	10/13/2004	Wrangell Seafoods Chlorine Release	04119928701
	10/31/2004	F/V Blue Fin	04119930501
November	11/11/2004	Marathon Beaver Creek Pad 1-A	04239931601
	11/20/2004	Slim Williams Way Ethyl Mercaptan Release	04119932501
	11/20/2004	ASRC truck rollover at DHMP 317.8	04399932501
	11/28/2004	SE Stevedoring Saxman	04119933301
	11/29/2004	Lemon Creek Propane Tanks	04119933401
	11/30/2004	Marathon Beaver Creek Fire	04239933501
December	12/04/2004	Z-Pad Produced Water Release	04399933901
	12/05/2004	Endicott Glycol Release	04399934001
	12/07/2004	M/V Selendang Ayu	04259934301
	12/26/2004	Nikolski Fuel Spill	04259936101

2005

Month	Spill Date	Spill Name	Spill Number
January	01/04/2005	M/V Bruin Bay	05239900402
	01/20/2005	Horseshoe Lake Mystery Sheen	05249902001
February	02/07/2005	AVEC Nunapitchuk Fuel Spill	05279903801
	02/17/2005	Drill Site 11 Methanol Release	05399904801
March	03/13/2005	Nautilus Seafood Ammonia Release	05229904401
	03/23/2005	F/V Oban	05119908201
	03/26/2005	Drill Site 2H Produced Water Spill	05399908501
	03/28/2005	MV Seafari Grounding	05119908701
April	04/12/2005	Drill Site 14 Crude Oil Spill	05399910201
May	05/14/2005	Emmonak Fuel Release	05279913901
June	06/25/2005	Ketchikan Public Utilities Hypochlorite Release	05119917601



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June 2007