

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Spill Prevention and Response
Prevention and Emergency Response Program

SITUATION REPORT

INCIDENT NAME: Adak Petroleum Diesel Spill **SITREP #:** 8 and Final

SPILL NUMBER: 10259901101 **LEDGER CODE:** 14282760

TIME/DATE OF SPILL: Adak Petroleum staff discovered fuel in the Adak small boat harbor at approximately 3:50 PM on January 11, 2010. Adak Petroleum reported the spill to ADEC at 6:27 PM on January 11, 2010.

TIME/DATE OF SITUATION REPORT: 1:00 PM on August 31, 2011

TIME/DATE OF THE NEXT REPORT: This is the final report.

TYPE/AMOUNT OF PRODUCT SPILLED: The product spilled was #2 diesel fuel. Adak Petroleum initially estimated that up to 3,400 barrels (142,800 gallons) of fuel were released from a 114,000-barrel (4.8 million gallons) capacity storage tank as it was being filled from the tank ship *Al Amerat*. Based on January 11 visual observations, Adak Petroleum estimated that 1,000 gallons of fuel entered the small boat harbor. In Adak Petroleum's Final Report from October 27, 2010, Aleut Enterprise, the parent company of Adak Petroleum, estimates the spill volume to have been less than 100 barrels (4,200 gallons). Upon ADEC's investigation and review of the sequent of events, ship delivery reports, facility logs, and tank configuration, ADEC has determined that approximately 1,636 barrels (68,745.6 gallons) was spilled.

LOCATION: Adak Petroleum bulk fuel facility, Adak Island, Aleutian Islands. Adak is approximately 1,200 miles southwest of Anchorage. Adak is in the Hawaii-Aleutian time zone, one hour earlier than Anchorage.

CAUSE OF SPILL: The spill occurred as fuel was being pumped to underground storage tank N-7 in the Helmet Creek Tank Farm from the *Al Amerat*, moored at the fuel pier in Sweeper Cove. Because of over-filling, fuel escaped through one or more gaps in a seal between the tank's wall and roof into secondary containment surrounding the tank. Valves from the secondary containment to a drainage system leading to Helmet Creek had been left open. The fuel overwhelmed the tank system's oil/water separator and flowed into the drainage system, resulting in a fuel release to Helmet Creek and the small boat harbor at its terminus.

RESPONSIBLE PARTY (RP): Aleut Enterprise, LLC (of which Adak Petroleum, LLC is a subsidiary)

RESPONSE ACTION: ADEC directed the RP to continue daily monitoring of spill-affected areas after the original monitoring plan expired on February 28, 2010. Cleanup contractor staff remained on Adak to perform monitoring, additional cleanup as necessary, and incineration of response-generated solid waste until November 4, 2010. To date approximately 122 barrels (5,124 gallons) of diesel have been recovered, and 1,010 pounds of oily absorbent materials has been incinerated.

In August 2010, an ADEC Prevention and Emergency Response Program responder participated in a site assessment conducted by the RP's environmental consultant to gauge the spill's remaining impacts on soil at the tank farm and water in Helmet Creek. Diesel-range hydrocarbons were found at a

concentration above the State's most stringent cleanup level in a soil sample near the tank farm's groundwater/stormwater outfall, but hydrocarbons were not found above cleanup levels in water samples taken from the outfall or Helmet Creek. Attempts to determine whether fuel had escaped the tank N-7 secondary containment into soil surrounding the tank were inconclusive, but available evidence suggests that did not occur.

In September 2010, ADEC Industry Preparedness Program (IPP) staff accompanied the RP's contractor on an inspection of the interior of tank N-7, which confirmed the suspected spill pathway over the top of the tank wall. IPP engaged a third-party engineering consultant to review tank inspection documentation and other information to help determine the condition of the tank and its secondary containment and to help estimate the spill volume. IPP will decide what actions the RP will need to take to return the tank to service.

On August 20, 2011 ADEC Prevention and Emergency Response Program responder participated in a site assessment with the facility manager to evaluate any remaining impacts in the soil at the tank farm stormwater outfall, stream banks along Helmet Creek, and the small boat harbor. During the assessment there were no visual indications of fuel contamination in the spill path below tank N-7, or along the stream banks of Helmet Creek and the small boat harbor. Prior to ADEC site closures, analytical sampling will be required in the spill area of the catchment basin to ensure cleanup levels have been met. A corrective action report provided by Aleut Enterprises on October 29, 2010 identified one location in the catchment basin area that may still exceed ADEC Method II cleanup levels.

SOURCE CONTROL: The flow of spilled fuel into Helmet Creek was stopped and the fluid level in tank N-7 stabilized. The tank was emptied in late August/early September 2010 for inspection.

RESOURCES AFFECTED: Helmet Creek and marine waters of Sweeper Cove. Shoreline in the small boat harbor was oiled. The former Adak Army and Naval Operations Base is a National Historic Landmark. Helmet Creek and Happy Valley Creek, which flow into the small boat harbor, are listed as anadromous streams in the Alaska Department of Fish and Game's stream inventory.

The natural resource trustees for the State of Alaska and the federal government have been conducting a natural resource damage assessment and restoration effort, as prescribed under federal law. The trustees have worked with the responsible party to develop restoration projects to restore or compensate for the damage inflicted on the natural environment in the area of the spill. An agreement in principle has been reached between the trustees and the responsible party.

FUTURE PLANS AND RECOMMENDATIONS: To avoid stream bank erosion and mobilization of contaminants into Helmet Creek likely to result from excavation, hydrocarbons remaining in soil adjacent to the tank farm's groundwater/stormwater outfall will continue to be remediated in place by monitored natural attenuation. ADEC will require soil and water sampling at the outfall in the future to confirm that hydrocarbons are degrading and are not contaminating Helmet Creek.

PERSONNEL:

Incident Commander: Rudy Tsukada (Aleut Enterprise, LLC)
S.O.S.C.: Steve Russell (ADEC)

FOR ADDITIONAL INFORMATION CONTACT: John Brown, ADEC, (907) 269-7688

Photographs and other spill information are available at:

http://www.dec.state.ak.us/spar/perp/response/sum_fy10/100111201/100111201_index.htm

AGENCY/STAKEHOLDER NOTIFICATION LIST

This sitrep has been distributed to the following agencies and stakeholders. The situation report was also distributed to the various agency staff listed on the standard distribution list. The receiving agencies listed in the standard distribution list includes: Governor's office, Senator Begich's office, ADF&G, ADNDR, SECC, EPA, DOI, NMFS, and USFWS.

Agency/ Stakeholder	Name	Sent Via	Additional Information	Telephone	Fax
USCG Sector Anchorage	USCG Anchorage Office	Fax		271-6700	271-6751
EPA	Matt Car	Fax		271-3616	271-6340
Adak Port of Operations	Port Director	Fax		592-0185	592-0184
City of Adak		Fax		592-4513	592-4262
Native Village of Atka		Fax		839-2229	839-2269
Aleutian Pribilof Islands Association	Community Services Department	Fax		276-2700	279-4351
Aleut Corporation/ Anchorage Office		Fax		561-4300	563-4328
House 37/Dillingham	Bryce Edgmon	Fax	Anchorage 5/16 - 1/09 Juneau 1/10 - 5/15	269-0275 465-4451	269-0274 465-3445
Senate S/Bethel	Lyman Hoffman	Fax	Bethel/Juneau	465-4453	465-4523