ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Spill Prevention and Response
Prevention Preparedness and Response Program
SITUATION REPORT (SITREP)

CHANGES FROM THE PREVIOUS SITREP ARE DENOTED IN RED

Kaktovik Tank KAK-70 ULSD Release

SITREP #: 5 and Final

SPILL #: 17399900901

DATE/TIME OF DISTRIBUTION: 2:00 p.m., January 26, 2023

POTENTIAL RESPONSIBLE PARTY (PRP): North Slope Borough (NSB)

INCIDENT LOCATION: 4th Street, Kaktovik, Alaska (Lat/Long: 70.126559, -143.618159)

DATE/TIME OF SPILL: The spill was discovered on January 9, 2017 following a storm event, when a local North Slope Borough (NSB) supervisor attempted to fill equipment from the pump house at 2:15 p.m.

HOW/WHEN SPILL WAS DISCOVERED AND REPORTED: The NSB verbally reported the discovery of the spill to the Alaska Department of Environmental Conservation (ADEC) at 3:20 p.m. on January 9, 2017.

TYPE/AMOUNT OF PRODUCT SPILLED: The product released was ultra-low sulfur diesel (ULSD), which was spilled from an aboveground storage tank with a total capacity of 5,000 gallons. The tank, located on a gravel pad, was last filled on December 22, 2016. Based on fuel records, the NSB estimates that at the time of the release the tank contained approximately 4,000 gallons of ULSD, which represents the maximum potential spill volume.

CAUSE OF SPILL: The fuel line that connects the 5,000 gallon tank to a pump house broke following a strong winter storm event.

SOURCE CONTROL: The spill from the fuel line break had ceased by the time of discovery on January 9, 2017.

RESPONSE ACTION: The Unified Command incident management team for this spill determined that excavation up to 3 feet below ground surface would be required. Approximately 1,191 cubic yards (cy) of diesel-impacted soil were excavated from the source site and a low relief depression area along the south edge of Fourth Street where the diesel flowed during initial release. All but 91 cy of excavated soil was placed in Super Sacks staged in Borough-designated storage locations in the community. The remaining 91 cy of contaminated soil were stockpiled within a lined containment cell at the source location.

Following the winter weather event, street cleaning activities occurred prior to the discovery of the release and resulted in diesel-contaminated snow inadvertently being pushed through the northern portion of the community and stockpiled into 15 different snow push piles. Approximately 7,400 cy of impacted snow was transported to containment cells from locations within the community, including the source location. Snow melting, filtering, and snow-melt water treatment occurred from March through May 2017. The resulting melt

water was captured by mitigation measures, treated with granular activated carbon media (GAC), then discharged to nearby culverts along Kaktovik Avenue and Fourth Street, per ADEC authorization.

No impacts to Harold Kaveolook School or other public facilities have been reported. Representatives from NSB, ADEC and the U.S. Coast Guard hosted a Town Hall Meeting in Kaktovik on January 21, 2017 to provide information and address questions or concerns the community may have regarding the release and clean-up. Additionally, three public service announcements were posted to the community requesting that members of the public avoid snow piles created during previous road clearing activities as they may potentially be contaminated with ULSD.

Spill response and cleanup actions for this spill and another nearby spill generated 84 drums of various waste streams and five Super Sacks of oily waste. In September 2018, the Borough mobilized resources to Kaktovik to relocate the various Super Sack temporary storage areas into one consolidated location at the Kaktovik airport. In 2020, Jacobs Engineering Group Inc. (Jacobs) conducted waste characterization sampling and submitted a waste management plan in order to provide the characterization necessary for offsite transportation and disposal.

RESOURCES AT RISK OR AFFECTED: Resources affected at the time of incident included the gravel pad and adjacent roadways and ditches. Preliminary screening by responders at the time indicated ULSD may have migrated outside of the original release footprint as a result of wind drifting and snow removal activities prior to the identification of the release which was confirmed via subsequent investigation. Potentially affected areas included private property, snow covered tundra and Kaktovik Lagoon.

No impacts to wildlife or archeological sites have been reported.

FUTURE PLANS AND RECOMMENDATIONS: Future plans include the removal and transport of contaminated Super Sacks and drums from Kaktovik stockpiles for disposal.

WEATHER: Current weather conditions are overcast with temperatures of -18°F and winds from the E at 20 to 30 mph.

UNIFIED COMMAND AND PERSONNEL:

Incident Commander: Ian Stroud, NSB
SOSC: Kimberley Maher, ADEC
FOSC-R: Fae Bailey, USCG
Field SOSC: Paul Lhotka, ADEC

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

FOR ADDITIONAL INFORMATION CONTACT: Kimberley Maher, SOSC, ADEC (907) 451-2124

https://dec.alaska.gov/spar/ppr/spill-information/response/

Photo 1: View of KAK-70 drum storage pad facing southeast (Jacobs, September 15, 2020)

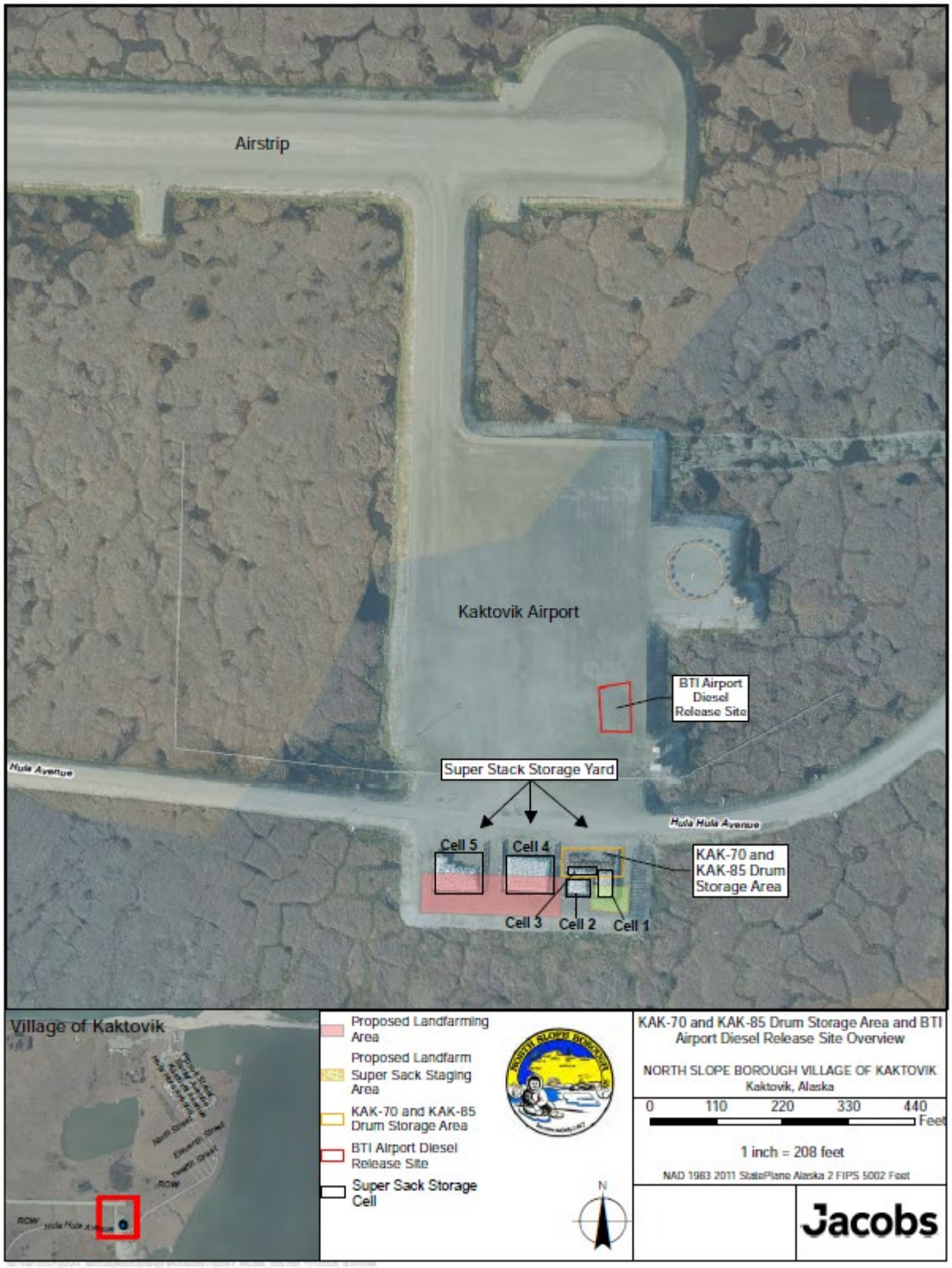

Figure 1: Contaminated Waste Storage Area at Kaktovik Airport (Jacobs, 2020)

AGENCY/STAKEHOLDER NOTIFICATION LIST: Please refer to the first SITREP, distributed January 10, 2017, for the agency/stakeholder notification list. The first SITREP can be found by following the link in the **Additional Information** box above.