

CIAP WEAR Trip Report
Toksook Bay (population 630)
July 8, 2014



Alaska Department of Environmental Conservation (ADEC) Solid Waste Program (Doug Huntman and Jacob Timmons) conducted a Coastal Impact Assistance Program (CIAP), Waste Erosion Assessment and Review (WEAR) site visit for Toksook Bay on July 8th, 2014. The following narrative is a brief description of our findings during the July inspection.

WEAR Sites

- **Landfill, 60.525545/-165.120412 (Active)** – This approximately 4 acre site is located half of a mile southwest of town and is operated by the City of Toksook Bay. It was constructed around 1986. The unpermitted landfill features two adjacent areas: the area for the landfill is 2 acres and a metals/salvage area that is also 2 acres. The landfill is operated as an area fill landfill and is fully fenced, but it does not have a gate and is open to public access. A part-time operator runs a collection program and residents also self-haul waste. The operator burns the municipal waste in the Tok burn unit located in the landfill. A skid steer is used to consolidate waste and ash; however it is not well consolidated. It is also not covered or is inadequately covered after consolidation. The 2 acre salvage area is not well managed. It contains metals, construction and demolition debris and items for reuse mixed together. The most serious issues this landfill faces are unconsolidated waste, poor burn box operations, little to no waste separation or sorting, and poor management of the salvage area. The nearest source of erosion, Kangirrluar Bay, lies 870 feet away.



- **AKARNG Armory, 60.531204/-165.110443 (Active)** – This is an active Contaminated Site (File ID 2450.38.001) due to petroleum contamination reported in 1996. It is the Alaska Army National Guard armory, found 600 feet south of the school, and includes two day tanks. In 2000, 150 cubic yards of polluted soil were removed from the site and treated in Anchorage. Per the Contaminated Sites database, more polluted soil was scheduled to be removed in summer 2014. Cleanup work is on-going for this site. The nearest source of erosion, Kangirrluar Bay, lies 1,300 feet away.



- **Former AVEC Tank Farm, 60.530249/-165.109105 (Abandoned)** – This site is the old AVEC tank farm operated from the 1980s until the new tank farm was completed in 2004. It includes 19 tanks vertical fuel tanks that are all on wooden structures within an earthen berm. The berm is lined, but it is torn in multiple places. A fence surrounds the site limiting public access. All tanks are disconnected and no longer in use. This site is located just north of the consolidated tank farm, about 1,000 feet south of the school. Kangirrluar Bay, the nearest source of erosion, sits 960 feet away.



- **Consolidated Tank Farm, 60.529736/-165.109063 (Active)** – This site was constructed in 2002-2004 through a Denali Commission project and is the community's consolidated tank farm. Nunakauiak Yupik Corporation (NYC), AVEC, City of Toksook Bay, and the Lower Kuskokwim School District (LKSD) are the owners of the tanks. Each entity operates its' own tanks except for NYC who also operates the City tanks. The site contains 27 horizontal tanks in two separately fenced, adjacent tank farms connected to a pump house. The western AVEC tank farm contains twelve 27,000 gallon tanks for a total capacity of 324,000 gallons of diesel. The eastern tank farm contains ten 27,000 gallon tanks and five 10,000 gallon fuel oil tanks. Both sites are within a timber dike containment system with multiple cells in each. This site can be found approximately 1,200 feet south of the school. The nearest source of erosion, Kangirrluar Bay, is 800 feet away.



- **Toksook Bay School, 60.53061/-165.109034 (Closed)** – This is a Contaminated Site (File ID 2450.38.002) with the status “cleanup complete – institutional controls” as of 2006. A 4,500 gallon fuel leak in the old elementary school maintenance crawlspace was the cause of contamination in 1990. Contamination remains under the building, but there are no indications of surface water or ecological impacts as of 2006. Natural attenuation is expected to degrade the remaining contamination over time. Institutional controls consist of that ADEC must approve any excavation, transport, remediation and/or disposal of soil from the school site. No indication of contamination was found during the 2014 site visit. This site is located on the west side of town, about 600 feet south of the school. Kangirrluar Bay, the nearest source of erosion, lies over 1,000 feet away.



- **School Tank Farm, 60.533025/-165.109850 (Active)** – This site, found adjacent to the school, consists of a newer day tank as well as the school’s old tank farm which is abandoned in place. The old school tank farm contains six yellow vertical fuel tanks that have not been in use since 2004. The tanks are within a wooden diked, fenced containment and are disconnected. The new day tank is a 4,000 gallon fuel oil tank which is in use, fenced, and within secondary containment. It was installed during a 2004 Denali Commission project. These tanks are owned and operated by the Lower Kuskokwim School District. The nearest source of erosion, the Qemqeng River, runs 920 feet away.



- **South Tank Farm, 60.528621/-165.10618 (Abandoned)** – This site consists of sixteen old fuel tanks, both vertical and horizontal. All of the tanks appear to be empty and disconnected, without secondary containment and not in use for many years. The site is located on the southeast side of town, 1,600 feet southeast of the school. The owner of the site is unknown. The nearest source of erosion, Kangirrluar Bay, is 180 feet away.



- **Water Plant Fuel Tank, 60.53011/-165.107838 (Active)** – This site is located about 1,000 feet south of the school by the city water tank. It includes one approximately 18,000 gallon fuel tank for the water plant. Public access is restricted by a fence. It is owned by the City of Toksook Bay. The nearest source of erosion, Kangirrluar Bay, sits 800 feet away.

