



Alaska Department of Environmental Conservation (ADEC) Solid Waste Program (Sandra Woods and Trisha Bower) conducted a Coastal Impact Assistance Program (CIAP), Waste Erosion Assessment and Review (WEAR) site visit for Buckland on September 16, 2013., IGAP Coordinator Shannon Melton, participated in the site visit. The following narrative is a brief description of our findings during the September inspection.

WEAR Sites

- **Landfill, 65.976782/-161.153284 (Active)** — This site is a fenced area fill landfill that is unpermitted. The current landfill is not well managed and is in a location that regularly floods in the spring, filling the landfill and surrounding areas with water. There are two City Employees who collect solid waste from the community and bring the waste to the landfill for either burning in Summit burn box or place it directly into the landfill. The landfill accepts municipal waste and construction and demolition debris. There is inadequate waste separation and diversion and limited recycling/backhaul in Buckland. At the time of the inspection, Shannon Melton works as the Buckland IGAP employee. Ms. Melton is currently working on a United States Department of Agriculture (USDA) landfill grant application to build a new landfill in an area that is less likely to flood. The current landfill is located approximately 1645 feet from the airport strip, 580 feet northeast from Keeyuk Creek that floods the landfill annually, and 2109 feet southwest of the Buckland River at its closest point.



- **Community Tank Farm, 65.978896/-161.131984 (Active)** – This consolidated tank farm was constructed in 2004 through a Denali Commission project. It contains fuel tanks for the Native Village of Buckland, City of Buckland and the Northwest Arctic Borough School District. It is operated by the Native Village of Buckland. The tank farm is fully fenced with earthen dikes as secondary containment. This site is 640 feet southwest of Buckland River and 755 feet east the airstrip. The nearest source of erosion is the Buckland River to the northeast. The site is in good condition and generally flat and the soil was sandy with high organic content.



- **IRA Fuel Depot, 65.978327/-161.130767 (Active)** – This former tank farm is a known Contaminated Site (File ID 520.38.003) due to petroleum contamination. It was also the site of a 7,750 gallon fuel spill of which 3,100 gallons were recovered in 2008. This tank farm was operated by the Native Village of Buckland. It was in operation from around the 1980s until 2004 when the consolidated tank farm was constructed 100 feet west this site. The site currently includes eleven abandoned fuel tanks that may still contain an unknown amount of both diesel and gasoline. This site also contains many 55-gallon drums of used oil and other unidentified chemical substances. Most drums were intact but rusted and showing the potential to deteriorate and leak in the near future. The tank farm is fenced and contained within a lined earthen berm area; however it was full of water and oily residue during the inspection. The water level in the containment area was about at the maximum level. The soil around the site is sandy with high organic content. This site is located 780 feet southwest of the Buckland River and 1,064 feet southwest of the airstrip.



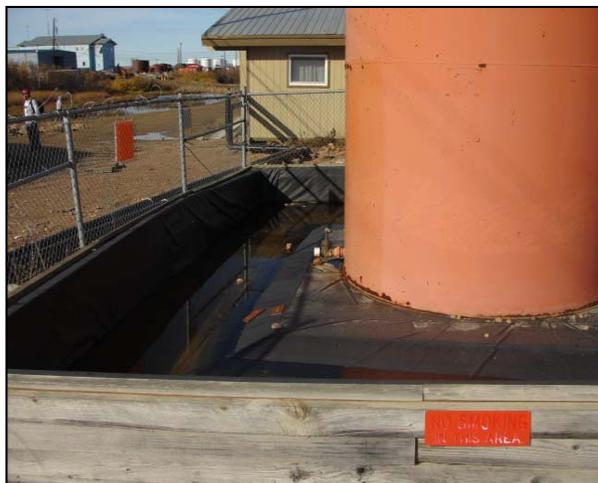
- **NABSD School Tank Farm, 65.978277/-161.125078 (Active)** – The former tank farm for the school was located on the east side of the school near the City of Buckland Tank Farm. It is an active Contaminated Site (File ID 520.38.006) due to petroleum contamination. It was owned by the Northwest Arctic Borough School District (NABSD) and was removed after the consolidated tank farm was constructed in 2004. The original location, next to the City Tank Farm, has been covered with clean fill and is partially under the handicap access ramp at the entrance to the school. The tank farm contained 5-7 vertical single-walled tanks at various times over the years with no fencing or secondary containment. It is located 390 feet from the Buckland River.



- **City Tank Farm, 65.978381/-161.124910 (Active)** – This tank farm is an active Contaminated Site (File ID 520.38.004) due to petroleum contamination. It is located 65 feet northeast of the school and is owned by the City of Buckland. This tank farm was used for supplemental heating fuel storage for the power plant & other city facilities. It contains two single-walled, vertical steel tanks that are not fenced or in secondary containment. There has been a tank farm in this location since the 1970s. The total capacity of the tanks is 14,800 gallons; however, they were reported to not be in use. It is located 370 feet from the Buckland River.



- **Water Plant Tank Farm, 65.977243/-161.125885 (Active)** – This tank farm is a known Contaminated Site (File ID 520.38.005) under the name ‘*City of Buckland Water Plant*’. This facility consists of two single-walled vertical steel tanks containing heating oil within a fenced and lined dike. This tank farm is used to dispense fuel to various city facilities. It is owned by the City of Buckland and was constructed around the 1980s. Total capacity of the tanks is 15,600 gallons. The Buckland River is 425 feet east of this site and is the nearest source of erosion.



- **Power Plant Tank, 65.976543/-161.124405 (Active)** – This facility consists of one horizontal, double-walled diesel fuel tank. It is on raised pilings within a fully fenced area. Fuel from this tank is transferred via above-ground piping to the power plant that is operated by the City of Buckland. There are numerous abandoned transformers stored near the power plant. It is unknown if they contain any PVC or other hazardous waste. The nearest source of erosion is the Buckland River 170 feet to the east.

