



Alaska Department of Environmental Conservation (ADEC) Solid Waste Program (Kitrina Persson and Elizabeth Stergiou) conducted a Coastal Impact Assistance Program (CIAP), Waste Erosion Assessment and Review (WEAR) site visit for the Village of Chignik Lagoon on August 2nd, 2012. This site was revisited on August 19, 2014 by Stephen Price and David Carlson. The following narrative is a brief description of our findings during the 2012 and 2014 inspections.

WEAR Sites:

- **Removed Tank Farm, 56.309929/-158.540255 (Abandoned)** – The three horizontal tanks that used to occupy this site were removed by a resident and brought to the north end of the runway where they remain. The tanks were still at the runway in the 2014 visit. The site, which has staining and dead vegetation, is approximately eight feet from the actively eroding beach of Chignik Lagoon.



- **Packer's Creek/Runway Landfill, 56.308981/-158.539028 (Closed)** – This site is to the south of the runway extension area; the area is cleared and there are bollards where a new sewer tank sits. Dumpsters are located at the edge of the clearing near some alders. Some of the waste from this closed landfill was reported to be dug up when the new sewer tank was installed. However, there was evidence that waste still remained in the area including batteries which were observed both near the dumpsters and in the creek. A wall of rip rap was installed when the creek was rerouted for the runway extension project back in 2011.



- **West Landfill, 56.309713/-158.540655 (Closed)** – This old landfill is located less than 100 feet southwest of the Removed Tank Farm site on the west end of town. There was garbage from the eroding bank, several drums, plastics, cans, battery remains, a trailer frame, and other waste lying on the beach side from the dumpster area in town. It is located near the actively eroding beach of Chignik Lagoon.



➤ **Landfill, 56.293809/-158.556304 (Active)** – This permitted landfill has been in operation since 2005. It is fenced and is only accessible by vehicle during low tide in the summer and in the winter, ice on the beach creates access issues. Due to these issues, a burn unit is located in town. The landfill was designed by ANTHC. The landfill is situated across a stream from the sewage lagoon. The community has had issues with unauthorized dumping by fishermen, who can easily access the site by boat during the summer, and have cut the gate lock to dispose of their waste. Hazardous waste is not allowed, but unauthorized dumping has compromised this rule. Burning is done in the trench at the landfill as well as in the town’s burn unit. The community believes the landfill is nearing capacity; but with improved management, the area would last quite a bit longer. We were unable to inspect the landfill during the 2014 visit due to high tides. It is approximately 85 feet from the water body of Chignik Lagoon.



- **Tank Farm, 56.311568/-158.536438 (Active)** – This tank farm was constructed in 2001 through a Denali Commission project. It is owned and operated by the Native Village of Chignik Lagoon. It consists of four horizontal tanks within a fenced, sheet pile bulkhead retaining wall. The total capacity is 62,100 gallons: two 22,300 gallon diesel tanks, one 13,500 gallon gasoline tank, and one 4,000 gallon gasoline tank. The three larger horizontal tanks are within a metal lined, wooded walled, secondary containment. This site also serves as the community fueling station. It is directly on Chignik Lagoon, which is less than 10 feet away.

2012 Photos



2014 Photos



- **Old Cannery Landfill, 56.311637/-158.536188 (Closed)** – This site is actively eroding into the lagoon and is located where the cannery used to be. A new tank farm was built abutting the edge of the old landfill, and it appears that part of the landfill would have been removed during the tank containment construction. It is impacted by the tides of Chignik Lagoon, which is less than 10 feet away.

2012 Photos



2014 Photos



- **Beach Erosion Control, 56.312133/-158.533887 (Active)** – For approximately 1 mile in either direction from the new tank farm location, metals, tires, and fishing nets are placed on the beach by residents for erosion control. Also, beach front property owners are building infrastructure and placing heavy items on the beach in attempt to halt their loss of land. Sand and the erosion control items are being moved by tides and storms.



- **School Tank Farm, 56.308383/-158.537123 (Active)** –The tank farm has been in this location since around 1980. It is owned and operated by the Lake and Peninsula School District. The current tank farm was refurbished in 2001 through a Denali Commission project. It contains four tanks with a total capacity around 50,000 gallons of diesel. The area is fully fenced and the tanks within a metal diked secondary containment wall. This site is located 300 feet south of Packer’s Creek and 400 feet south of the runway.

