



KENAI PENINSULA BOROUGH SOLID WASTE DEPARTMENT

MEMORANDUM

MIKE NAVARRE
BOROUGH MAYOR

TO: Gary Knopp, Assembly President
Members of the Assembly

THRU: Mike Navarre, Mayor *mn*
Brenda Ahlberg, Community & Fiscal Projects Manager *BA*

FROM: Jack Maryott, Director of Solid Waste *JM*

DATE: August 9, 2012

SUBJECT: Resolution 2012-070, supporting the leachate thermal evaporation facility project as the number one priority solid waste major capital project for fiscal year 2014

The Central Peninsula Landfill (CPL) manages 98 percent of the municipal solid waste generated in the borough; this will include the Homer Transfer site beginning in the Fall of 2013. In fiscal year 2012, the assembly appropriated funding to support a leachate management study. Many options were investigated and five alternatives were developed for consideration to manage leachate at the CPL. The study identified options for onsite and offsite leachate management: (1) thermal evaporation; (2) leachate pre-treatment and transport to the City of Kenai waste water treatment plant; (3) leachate pre-treatment followed by discharge to an engineered wetland; (4) transport leachate to the Anchorage waste water facility; (5) leachate full-treatment for discharge to a local water way. The recommended option is the thermal evaporation of leachate facility to be constructed at the CPL. One primary benefit is that the thermal evaporator will keep the leachate entirely out of the aquatic environment. This is a proven and reliable technology, and once the landfill matures, the borough can utilize the landfill gas as an alternative fuel source. This option is sized to meet future leachate management needs of the full build-out, five-cell landfill.

Schematic design is in progress and it is the borough's intent to apply for the State of Alaska Department of Environmental Conservation's "Municipal Matching Grant" program to seek supplemental funds for project completion. The grant program ranks projects based upon scored evaluation. The project application will received higher points if the application is accompanied by evidence that the local municipality has identified the project as a number one priority.