Cinder Lake Landfill Criteria for Accepting Petroleum Contaminated Soil

Cinder Lake Landfill (CLL) is not permitted to accept special waste as defined in the Arizona Revised Statutes (ARS) 49-852:

A. The following are designated as special wastes for purposes of this article:

1. Waste that contains petroleum contaminated soils.
2. Waste from shredding motor vehicles.

B. The director shall establish rules for best management practices for these special wastes pursuant to section 49-855.

C. Notwithstanding section 49-856, the wastes listed pursuant to subsection A of this section are required to comply with those manifest requirements within three months of the adoption of the best management practices.

Petroleum Contaminated Soils are defined in ARS 49-851.A.3 as:

"Petroleum contaminated soils" means soils excavated for storage, treatment or disposal containing benzene, toluene, ethylbenzene, total xylenes, acenaphthylene, anthracene, benz(A)anthracene, benzo(A)pyrene, benzo(B)fluoranthene, benzo(K)fluoranthene, cyrysene, dibenz(A, H)anthracene, fluoranthene, fluorene, indenopyrene, naphthalene or pyrene in concentrations in excess of levels determined by the director pursuant to section ARS 49-152 to protect the public health and the environment.

Soil that contains the previously listed constituents in quantities less than the established residential soil remediation levels as determined by the director of the Arizona Department of Environmental Quality may be accepted by CLL. They include the following:

BTEX (by EPA Method 8021 or 8260B)	**Residential Soil Remediation Levels (mg/kg)**
Benzene	0.65
Toluene	650
Ethylbenzene	400
Total Xylenes	270
PAH (by EPA Method 8310)	
Acenaphthylene	3,700
Anthracene	22,000
Benz[a]anthracene	6.9
Benzo[a]pyrene	0.69
Benzo[b]fluoranthene	6.9
Benzo[k]fluoranthene	69
Chrysene*	680
Dibenz[a,h]anthracene	0.69
Fluoranthene	2,700
Indenopyrene	6.9
Naphthalene	56
Pyrene	2,300

*Chrysene is equal to cyrysene in ARS 49-851.A.3

Sampling Methodology

One three-point composite sample is required for every 100 cubic yards of soil. Discrete sample points should be collected at randomly selected locations within each 100 cubic yard section of the stockpile. A lab report containing the results of each composite sample shall be submitted to CLL for review before acceptance is granted. The City of Flagstaff reserves the right to refuse the disposal of any material at CLL for any reason, to require sampling in addition to the requirements stated here, to inspect the material at its point of origin, and/or be present during sampling activities. Landfill personal are also authorized to refuse any load at the landfill that they feel represents a threat to the health and safety of themselves and/or other employees, regardless of any previous sampling conducted and acceptance given.

Submittal of laboratory analytical results

Submit laboratory analytical results to the following address:

City of Flagstaff
Cinder Lake Landfill
211 W Aspen Ave
Flagstaff, AZ 86001

Laboratory analytical results, chain of custody and Arizona Department of Health Services laboratory certification number must be submitted with the Cinder Lake Landfill Generator Profile Sheet to be considered for approval. It is recommended to contact staff from Cinder Lake Landfill prior to sampling at the number below:

Matt Morales, Project Manager 928-213-2123