

Rainbow Lake Landfill



ENGINEERED LANDFILL DISPOSAL



Plant Profile:

Hours of operation	8AM to 6PM
Location	SE 05-111-05-W6
Directions to facility	38 km directly east of Rainbow Lake on Hwy 58
Address	Box 393 Rainbow Lake, AB, T0H 2Y0
Phone	780-956-5650
Fax	780-956-5630
Class and Approval	Class II Landfill
Permit Number	AENV Approval #193262-00-00
LF Design	An Engineered Class II Landfill featuring a composite liner comprised of a 1.0m thick recompacted clay liner covered by a 60 mil high density polyethylene (HDPE) geomembrane liner along with a leachate collection system. Combined permeability of both liners exceeds regulatory requirements. Cell construction is subject to a strict QA/QC Program managed by third party professional engineering consultants
Groundwater Monitoring	A ground water monitoring program is in place with three well's located up gradient of the landfill cell and four well's located down gradient of landfill cell. Sampling occurs two times a year with analysis compared to background analysis. Analytical reports are available for viewing on site. Results are submitted annually to the appropriate regulatory authority.
Surface Water Controls	Surface water is managed to prevent clean surface water from entering the landfill. Any water inside the landfill is contained and collected as leachate.
Waste Acceptance	A three step process that begins with Protocol: 1) the application for disposal (WCD) submitted with third party accredited lab analytical attached. 2) random sampling of waste streams entering the facility. Testing for gross parameters including; flashpoint, pH, paint filter and NORM detection. 3) equipment operator observes loads as they are being received for discrepancies.
Waste Placement	Facility utilizes a three dimensional alpha numeric grid locating system with surveyed elevations. Documentation is maintained showing the location of each load.
Waste Tracking Documentation	All approved loads must be accompanied by a completed CCS non-hazardous & non-dangerous Waste Manifest. Manifest serves as a Waste Disposal certificate.
Expansions	The expansion of three more cells is happening in the Spring of 2004
Plant bio	Start date for cell #1 was September 1, 2003, the first 3rd party load arrived on September 2, 2003. CCS Rainbow Lake Landfill is located adjacent to the CCS Rainbow Lake TRD Plant. Access to CCS Rainbow Lake facility is not subject to seasonal load restrictions

Contact:

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