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**Plant Profile: Spirit River Class II Landfill**

Hours of Operation	The site is open 7AM to 7PM, 7 days a week, or by appointment
Location	SW ¼ 31-077-05 W6M
Directions to Facility	The facility is located ~60km North of Grande Prairie, South of the Village of Rycroft, West of Hwy #2.
Address	PO Box 501, Rycroft, AB T0H 3A0
Phone	780-765-3745
Fax	780-765-3751
Area Sales and Marketing	(780) 933-6849
Class and Approval	Class II Landfill
Permit Number	Alberta Environment Approval #137872-01-00
LF Design	The Engineered Class II industrial disposal cell contains a perforated pipe leachate collection and removal system underlain by an engineered composite liner system made up of 60 mil high density polyethylene (HDPE) geomembrane over 1 meter of compacted clay. The composite liner exceeds the regulated minimum for industrial landfill construction. Landfill site also contains a bioremediation area with 0.6m engineered clay covered by 30cm protective soil layer.
Groundwater Monitoring	A groundwater monitoring program is in place with 29 monitoring wells located on site including wells both up gradient and down gradient of the landfill cell. Sampling occurs twice a year with analysis compared to back-ground analysis and past groundwater sampling events. Analytical reports are available for viewing on site. Results are submitted annually to the appropriate regulatory authority as part of the facility's annual report.
Surface Water Controls	The landfill cell keeps any precipitation water within the boundaries of the cell. The water is then removed as leachate through the leachate collection system in the bottom of the cell. The treatment pad is graded to direct all precipitation into a double lined leachate collection pond with a leak detection system. Any clean surface water is collected in a pond so it does not enter the landfill.
Waste Acceptance Protocol	The Waste Approval Application (WAA) is submitted along with appropriate third party accredited lab analytical attached. The waste

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	<p>stream is approved for disposal by the landfill. The first load from every approval location is tested along with random sampling of waste streams entering the facility. Testing parameters could include parameters used to approve waste stream.</p>
Waste Placement	<p>The landfill is sectioned off into a three dimensional grid placement system. Loads locations are tracked as material is disposed. Waste loads are placed based on waste stream type and cell conditions.</p>
Waste Tracking Documentation	<p>Every load of waste arriving at the facility must be accompanied by a completed CCS Non-hazardous Waste Docket. The docket serves as a certificate of transportation and disposal.</p>
Expansions	<p>Industrial Cell #3 was completed in summer 2006.</p>
Plant Biography	<p>The Spirit River Landfill facility opened in May 2003. The industrial cell began to take both industrial and oilfield waste streams in June 2003. The facility also has a Municipal Solid Waste (MSW) disposal cell for household garbage and construction debris. The treatment pad on site accepts wastes streams that require passive remediation reducing contamination levels for disposal criteria.</p>

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