



# Marshall Landfill

## CCS LANDFILL SERVICES

### PLANT PROFILE

<b>Hours of Operation</b>	7:00am to 7:30pm
<b>Location (LSD)</b>	Landfill: SE ¼ -21-048-26W3, NE ¼-16-048-26W3 Waste Processing Facility: SE ¼ -21-048-26W3 Disposal Well Location: C07-16-048-26W3
<b>Directions to Facility</b>	From Marshall, SK take Hwy 16 east for 3 km. Turn south and continue for 2.7 km
<b>Mailing Address</b>	Box 316, Marshall, SK S0M 1R0
<b>Phone</b>	(306) 387-6507
<b>Fax</b>	(306) 387-6188
<b>Area Sales and Marketing</b>	(780) 808-4239
<b>Class and Approval</b>	Industrial Effluent Works Landfill and Waste Processing Facility
<b>Permit Number</b>	Saskatchewan Environment P-06-060, Saskatchewan Industry & Resources WPF 2007-01
<b>LF Design</b>	An Engineered Class II Landfill featuring, for cells 1, & 2, a composite liner comprised of a 60 mil high density polyethylene (HDPE) liner underlain by a 1.0 m minimum thick engineered clay liner. Cell 3, 4, 5, & 6 and all future landfill cells will be constructed using a composite liner comprised of a geocomposite clay liner and a 60 mil high HDPE. All cells have a leachate collection system. Cell construction is subject to a strict QA/QC Program managed by third party professional engineering consultants
<b>Groundwater Monitoring</b>	A ground water monitoring program is in place with onsite monitoring wells located both up-gradient and down-gradient of the landfill cells. Sampling occurs twice a year with analysis compared to background analysis and past groundwater sampling events. Analytical reports are available for viewing at the site. Results are submitted annually to the appropriate regulatory authority A ground water monitoring program is in place with onsite monitoring wells located both up-gradient and down-gradient of the landfill cells. Sampling occurs as per ground water monitoring plan with analysis compared to background analysis and past groundwater sampling events Analytical reports are available for viewing at the site. Results are submitted annually to the appropriate regulatory authority
<b>Surface Water Controls</b>	Surface water is managed to prevent clean surface water from entering the landfill. Any water inside the landfill is contained and collected as leachate
<b>Waste Acceptance Protocol</b>	The Waste Approval Application (WAA) is submitted along with appropriate third party accredited lab analytical attached. The waste stream is approved for disposal by the landfill and an approval number is issued. The first load from every approval location is tested along with random sampling of waste streams entering the facility. Testing parameters include parameters used to approve the waste stream
<b>Waste Placement</b>	Facility utilizes a three dimensional alpha numeric grid locating system with surveyed elevations. Documentation is maintained showing the location of each load
<b>Waste Tracking Documentation</b>	Every load of waste coming to the site must be accompanied by a CCS Non Hazardous Waste Docket, complete with approval number. This waste docket serves as a certificate of transportation and disposal



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#### Plant Biography

In the Fall of 1999, CCS Energy Services purchased the Class 2 Oilfield Landfill facility in Marshall, Saskatchewan. CCS Landfill Services is currently operating the facility in cooperation with the Rural Municipality of Wilton. CCS Marshall is currently licensed to accept the following solid waste generated by an upstream oil or gas facility:

- 1) Materials that are not defined as "dangerous" by the Transportation of Dangerous Goods Regulations
- 2) Materials must comply with Saskatchewan Industry and Resources GL 2002-02 Interim Draft Landfilling Requirements for Waste Generated from Upstream Oil and Gas Industry

CCS Marshall is approved to operate a Waste Processing Facility and is approved to receive, store, and process the following in-province and out-province non-hazardous wastes and by-products generated from and associated with the upstream petroleum industry:

- 1) disposal of third party produced water