



Bonnyville Landfill

CCS LANDFILL SERVICES

PLANT PROFILE

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| Hours of Operation | 7:00 am to 7:00 pm, 7 days a week |
| Location (LSD) | NE ¼ 09-061-03W4 |
| Directions to Facility | 20 km east of Bonnyville on Hwy 659 on the south side of the Hwy |
| Mailing Address | P.O. Box 7689, Bonnyville, AB T9N 2H9 |
| Phone | 780-812-2033 |
| Fax | 780-812-2255 |
| Area Sales and Marketing | 780-614-5383 |
| Class and Approval | Class II Landfill |
| Permit Number | Alberta Environment approval number 204916-00-00 |
| LF Design | The Engineered Class II Landfill incorporates a composite liner system comprised of a 1.0m thick compacted clay liner (CCL) covered by a 60mil high density polyethylene (HDPE) geomembrane liner. A leachate collection and removal system is also included. The primary function of the leachate collection system is to allow control of leachate levels inside the cell. The leachate system consists of a granular drainage layer and perforated piping system on the base of the landfill that drains to a 1.8 m by 1.8 m concrete vault at the east side of Cell 1 |
| Groundwater Monitoring | 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 |
| 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 Protocol | 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 |
| 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 | 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 |
| Plant Biography | The Bonnyville Class II Industrial Landfill opened Oct. 2005. The primary product that we are receiving is produced sand. We also receive drill cuttings/mud and contaminated soil. Cells, 1, 2 and 3 are nearly full and construction for cell 4 will commence in the spring of 2010. New cells will be added as needed. There will be a total of 10 cells for a cumulative volume of 5,039,000 m3 |