

# NORTH MARION COUNTY Disposal Facility Area

## UPDATE JUNE 2009



Filling at Ash Monofill Cell IV

## Facility Description

*The North Marion County Disposal Facility (NMCDF) provides waste disposal and recycling including waste transfer, ash monofilling, material recycling, and backup landfill capability.*

NMCDF operates under a Solid Waste Disposal Site Permit issued by the Oregon Department of Environmental Quality that requires Marion County to monitor for water and air quality impacts from the disposal facility. Marion County has developed and is implementing an Environmental Monitoring Program to comply with permit requirements and protect public health and the environment. Monitoring program activities include:

- Operation of a landfill gas extraction system and monitoring of perimeter area gas probes
- Water quality monitoring of groundwater, stormwater runoff and Senecal Creek
- Leachate collection and detection systems
- Annual reporting of monitoring activities and findings

The results of monitoring activities completed during 2008 were consistent with the results of monitoring completed over the past several years with areas showing continued improvement. Marion County is committed to diligent protection of the environment, public health, and safety. The county will continue to perform environmental monitoring to further assess any trends or potential impacts.

Please refer to the **Monitoring Results of this June 2009 Update** for more detailed information of the on-going environmental monitoring projects at NMCDF.

### North Marion County Disposal Facility

NMCDF is located in Marion County approximately three miles northwest of Woodburn, Oregon, adjacent to the west side of I-5.



### TECHNICAL TERMS

**Monitoring Wells:** Constructed of 2" diameter PVC and used to collect water quality samples from the two water-bearing formations at the site.

**Old Closed Waste Fill Trenches:** From 1974 to 1986, waste at the site was placed in unlined trenches. Trench filling ceased following start-up of the waste incinerator in Brooks.

**Ash Monofill Cell:** Residue from incinerated garbage from the waste-to-energy facility in Brooks, Oregon, is placed in lined cells with leachate collection and detection systems.

**Leachate:** The liquid solution obtained when water percolates through waste/ash.



This Backup Cell provides space for unburned waste if operation of the waste-to-energy facility should cease. The foreground shows an example of a temporary tarping system used to prevent rainwater from connecting with ash, reducing the amount of leachate. The backup cell will eventually be converted to an ash monofill cell and used for the disposal of ash through 2020.

## Explanation of North Marion County Disposal Facility Site Layout and Functions



### 1. Back-Up Landfill

Would be used to receive unburned waste if operation of the waste-to-energy facility ceases. Has not been utilized to date. The back-up landfill will be modified for disposal of ash in 2012.

### 2. Cell III Ash Monofill

Filled to capacity in September 2004. Final closure of the northern cell area was completed in 2005.

### 3. Active Cell IV Ash Monofill

Constructed during the summer of 2002. Started receiving ash waste in 2004. The capacity of Cell IV will provide for ash disposal through 2014.

### 4. Transfer and Recycling Station

Serves as the central receiving point of waste from north county residents and businesses.

### 5. Public Works Operations Department

A shop and laydown area were completed during 2006 and function as the north county operations base for the Woodburn District of Public Works.

### 6. Closed Sanitary Landfill Gas System

Removes and eliminates methane gas from the closed landfill to minimize gas buildup and migration. System operates 5 hours a day, 7 days a week.

### 7. Covered Wastewater Lagoon

Leachate generated from rainwater falling on ash is collected and stored here.

### 8. 1973 Landfill Site

Disposal and burning of waste occurred at this site from the early 1950s to 1973

#### FOR MORE INFORMATION:

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