

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

IN THE MATTER OF APPROVING A) Proposed Decision Regarding
NEW CONTAMINANT SOURCE FOR) Order No.
ROOSEVELT REGIONAL LANDFILL) DE 90-C153 Fifth Revision

To: Roosevelt Regional Landfill

500 Roosevelt Grade Road

Roosevelt, WA 99356

1.0 PROJECT SUMMARY:

On April 5, 1990, Order No. DE 90-C153 was first issued approving installation and operation of a municipal solid waste landfill. Amended versions of Order No. DE 90-C153 were issued on November 20, 1990 and February 15, 1991. Ecology received additional requests to amend Order No. DE 90-C153 on July 18, 1997, October 13, 1997, and February 13, 1998. Many of the requested revisions were made in an effort to clarify and simplify the existing Order and increase the annual tonnage acceptance rate from one to three million tons per year. On November 16, 2005, Ecology issued Order No. DE DE 90-C153 Fourth Revision specifying a PM₁₀ monitor data capture rate of 75%. . On July 22, 2008 Regional Disposal Company requested that Ecology revised this Order to increase the annual tonnage acceptance rate from three to five million tons per year. Herein, Ecology proposed to grant this request

The source consists of a municipal solid waste landfill and associated traffic, equipment movement, wind erosion, rock crushing, and fugitive landfill gas. Separate approvals have been granted for ash monofill and landfill gas flare operations.

The source is located at 500 Roosevelt Grade Road, in Roosevelt, Washington within Sections 22, 23, 26, 27, 28, 33, and 34, Township 4 North, Range 21 East, W.M., Klickitat County.

In relation to the above, the Department of Ecology, State of Washington, pursuant to RCW 70.94.152, makes the following determinations:

1.1 The proposed project, if constructed and operated as herein required, will be in accordance with applicable rules and regulations, as set forth in Chapter 173-400 WAC and Chapter 173-460 WAC, and the operation thereof, at the location proposed, will not result in ambient air quality

standards being exceeded.

1.2 The proposed project, if constructed and operated as herein required, will provide all known, available and reasonable methods of emission control.

THEREFORE, IT IS ORDERED that the project as described in said Notice of Construction and more specifically detailed in plans, specifications and other information submitted to the Department of Ecology in reference thereto, is approved for construction, installation and operation, provided the following conditions are met:

2.0 DESCRIPTION:

2.1 LAWS AND REGULATIONS

Roosevelt Regional Landfill’s Solid Waste Landfill qualifies as a source of air contaminants under Washington Administrative Code (WAC) 173-400-110, February 19, 1991.

The proposed project shall also comply with all current state laws and regulations, including RCW 70.94, Washington Clean Air Act; WAC 173-400, General Regulations for Air Pollution Sources; and WAC 173-460, Controls for New Sources of Toxic Air Pollutants.

2.2 EMISSIONS

The MSW landfill will produce up to the following potential emissions:

Pollutant	Emissions	
Total Suspended Particulate (TSP)	513.3	tons per year
PM10	113.2	tons per year
PM2.5	20.7	tons per year
Volatile Organic Compounds (VOC)	93.6	tons per year
Toxic Air Pollutants (TAPs)		
Acrylonitrile*	22.3	pounds per year
Benzene*	658.3	pounds per year
Bromoform*	89.4	pounds per year
1,3 Butadiene*	19.2	pounds per year
Carbon Tetrachloride*	58.1	pounds per year

Chloroform*	47.5	pounds per year
1,2-Dichloroethane*	57.6	pounds per year
1,4-Dioxane*	74.3	pounds per year
Hexachlorobutadiene*	174.3	pounds per year
Hydrogen Sulfide*	1095.4	pounds per year
Methylene Chloride*	1946.4	pounds per year
Tetrachloroethene*	651.2	pounds per year
Trichloroethene*	268.0	pounds per year
Vinyl Chloride*	142.9	pounds per year

* Toxic air pollutant with estimated emissions greater than the Small Quantity Emission Rate listed in WAC 173-460-080(2)(e).

Note: VOC & TAPs quantified assuming 80% collection efficiency of 11,500 scfm landfill gas produced.

3.0 APPROVAL CONDITIONS

3.1 Best Available Control Technology (BACT) shall be utilized. BACT for this project is determined to be:

3.1.1 Operation of the project in accordance with an Operations and Maintenance (O&M) manual that is site-specific, to be prepared by the permittee, within 60 days of issuance of this Order, and shall be available upon request. The O&M manual shall include a Fugitive Dust Control Plan (FDCP). The FDCP shall at a minimum include, procedures for management of the landfill, including the active face, and areas of travel.

3.1.2 Paved surface for all areas on which travel by solid-waste hauling vehicles routinely occurs, except within 100 feet of the active area. The active area is defined as where bottom liner is present.

3.1.3 Management of the active area to control fugitive dust shall be conducted according to the FDCP. Visible emissions, from landfill operations, at the property boundary of the site shall not exceed five (5) percent opacity. Agricultural operations conducted on the property are excepted from this provision. Opacity shall be measured by EPA Method 9 of Title 40, Code of Federal Regulations, Part 60, Appendix A, July 1, 1995.

3.1.4 PM₁₀ particulate monitoring

3.1.4.1 Two PM₁₀ particulate monitoring stations shall be installed at locations selected to provide a representative background level and the level downwind from the project. These locations shall be proposed by the permittee and approved by Ecology prior to installation.

3.1.4.2 Installation, maintenance, sampling, and reporting will be the responsibility of the permittee.

3.1.4.3 Sampling for PM₁₀ shall be conducted each sixth day.

3.1.4.4 Results will be reported quarterly to Ecology's Central Regional Office Air Quality Program.

3.1.4.5 Monitored PM₁₀ values shall not exceed 150 µg/m³, on a 24-hour basis.

3.1.4.6 A minimum of 75 percent of the scheduled PM₁₀ samples per quarter are required to be valid.

3.1.5 Track out shall be minimized for all vehicles leaving the site. This may include tire washing, road sweeping, road washing, or other methods, as needed.

3.1.6 Rock crushing shall be conducted in accordance with, but not be limited to, control of emissions by the following methods:

3.1.6.1. Enclosure of all transfer points.

3.1.6.2. Emissions from all screens controlled at all times during operation.

3.1.6.3. Ceasing all rock crushing operations when the one-hour average wind speed exceeds, or is equal to, 20 mph, based on wind measurements at the site's meteorological station, except when water mist is used to control fugitive emissions.

3.1.6.4. The operation shut down when the wind is strong enough that best efforts to control fugitive emissions are not effective.

3.1.6.5. Dust control systems in place and maintained in good operating condition during all periods of crusher operation.

3.1.6.6. Fugitive dust controlled by good housekeeping, such as watering of roads and cleaning around the crusher to prevent buildup of fine materials.

3.1.6.7. All rock mined on-site shall be used on-site.

3.1.6.8. Stockpiles located to minimize exposure to wind. (May

require use of portable wind screens or wind fences.)

Rock crushing conducted at the source for one or less 18-week period, per calendar, year does not require a portable source permit issued under WAC 173-400-110(5), if Ecology is notified, in writing at least ten days prior to location of the rock crushing equipment on-site, of the period during which rock crushing shall occur and the name of the owner and operator of this equipment.

Rock crushing conducted at the site for more than one 18-week period, per calendar year, does not require a separate permit issued under WAC 173-400-110, if Ecology is notified, in writing at least ten days prior to the location of the rock crushing equipment on-site and of the name of the owner and operator of this equipment. Rock crushing and associated materials handling shall be conducted in enclosed buildings controlled by fabric filter device or the equivalent (e.g. covered conveyors and transfer points), as approved, in writing, by Ecology.

The equipment owner and operator shall be provided with copies of, and follow, conditions 3.1.6.1 through 3.1.6.8 and any other conditions approved in writing by Ecology. In the event that this equipment is not operated in accordance with this Order, any or all of the following may be subject to any of the remedies provided in RCW 70.94 for such violations: the permittee, its employees and successors; the owner of the rock crushing equipment; and/or the operator of the rock crushing equipment.

3.1.7 Odors emanating from the project shall be controlled by an active gas collection and destruction system, a leachate collection and treatment system, and waste management practices to minimize odors generated at the active face of the landfill. In the event that odor from the project is detected beyond the property boundary of the site, Ecology shall notify the permittee of this fact. Within 180 days following such notification, the permittee shall implement remedial measures to control odor and shall report in writing to Ecology on the measures taken and their effectiveness. In the event that odor from the project is detected beyond the property boundary following notification and this remedial action period, Ecology shall order the permittee to take specific measures to control odor. These measures may include, but are not limited to, restrictions on the size of the active face, enclosure of the active face, modifications to gas or leachate collection systems and limitations on the amount of solid waste received by the project.

3.1.8 Incinerator ash, for disposal in the Landfill, shall contain at least 10% moisture. Ash moisture content shall be sampled on a minimum of three discreet loads each calendar quarter. Results shall be submitted to Ecology semi-annually.

3.2 Production.

3.2.1 This landfill may accept waste for a life of up to 40 years, beginning in 1990.

3.2.2 This landfill may accept up to 35,000,000 tons per year of waste, not to include "dangerous waste" or "hazardous waste," as defined by WAC 173-303-040.

3.3 If any applicable Toxic Air Contaminant standard or prohibition is established by the Department of Ecology and that standard or prohibition is more stringent than any limitation upon such pollutant in this order, the Department shall institute proceedings to modify this approval to conform with the Toxic Air Contaminant standard or prohibition.

3.4 This Order is valid only after payment of appropriate fee(s) required pursuant to WAC 173-455-120.

All plans, specifications and other information submitted to the Department of Ecology relative to this project and further documents and any further authorizations or approvals or denials in relation thereto shall be kept at the Central Regional Office of the Department of Ecology in the "Air Quality Controlled Sources" files and by such action shall be incorporated herein and made a part hereof.

Nothing in this approval shall be construed as obviating compliance with any requirement of law other than those imposed pursuant to the Washington Clean Air Act and rules and regulations thereunder.

Authorization may be modified, suspended or revoked in whole or part for cause, including, but not limited to, the following:

- I. Violation of any terms or conditions of this authorization;
- II. Obtaining this authorization by misrepresentation or failure to disclose fully all relevant facts.

The provisions of this authorization are severable and, if any provision of this authorization of application of any provision to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this authorization, shall not be affected thereby.

You have a right to appeal this permit. To appeal this you must:

File your appeal with the Pollution Control Hearings Board within 30 days of the "date of receipt" of this document. Filing means actual receipt by the Board during regular office hours

Serve your appeal on the Department of Ecology within 30 days of the "date of receipt" of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305 (10). "Date of receipt" is defined at RCW 43.21B.001(2).

Be sure to do the following:

Include a copy of (1) the permit you are appealing and (2) the application for the permit.

Serve and file your appeal in paper form; electronic copies are not accepted.

1. To file your appeal with the Pollution Control Hearings Board

Mail appeal to:

The Pollution Control Hearings Board

PO Box 40903

Olympia, WA 98504-0903

OR

Deliver your appeal in person to:

The Pollution Control Hearings Board

4224 – 6th Ave SE Rowe Six, Bldg 2

Lacey, WA 98503

2. To serve your appeal on the Department of Ecology

Mail appeal to:

The Department of Ecology

Appeals Coordinator

P.O. Box 47608

Olympia, WA 98504-7608

OR

Deliver your appeal in person to:

The Department of Ecology

Appeals Coordinator

300 Desmond Dr SE

Lacey, WA 98503

3. And send a copy of your appeal to:

Sue Billings

Department of Ecology

Central Regional Office

15 West Yakima Avenue, Suite 200

Yakima, WA 98902

For additional information visit the Environmental Hearings Office Website: <http://www.eho.wa.gov>

*To find laws and agency rules visit the Washington State Legislature Website:
<http://www1.leg.wa.gov/CodeReviser>*

DATED at Yakima, Washington, this XX day of XX, 2008.

REVIEWED BY:

____ PROPOSED DECISION _____

Lynnette A. Haller, PE

Central Regional Air Quality Section

Washington State Department of Ecology

APPROVED BY:

____ PROPOSED DECISION _____

Susan M. Billings

Section Manager

Central Regional Air Quality Section

Washington State Department of Ecology