

**FACT SHEET**

(Pursuant to the Solid Waste Disposal Regulations of the Nevada Administrative Code [NAC] 444.641.3[b])

Permittee Name: Eureka County

Facility Name: Eureka County Class II Landfill

Permit Number: SW055REV05

Description of Proposed Permit Modification

The facility is a Class II Municipal Waste area-fill disposal site located ¼ mile east of Eureka, Nevada. The proposed modification will add dewatered sewage sludge from a municipal wastewater treatment facility to the list of accepted wastes. The Eureka County Class II Landfill will continue to conduct methane monitoring, and will be closed in accordance with the Closure and Post-Closure Plan included with the Application. Dewatered sewage sludge will be disposed of in a designated area and be covered within 12 hours with a minimum of 12 inches of compacted soil. It is estimated that a maximum of 8000 cubic yards of dewatered sewage sludge will be disposed of every approximately 5 years.

Location Information

The facility is located on county-owned land in Eureka County, approximately ¼ mile east of Eureka. The property's legal description is within NE¼ NW¼ Section 13, Township 19 North, Range 53 East, Mount Diablo Baseline and Meridian.

Proposed Action

The Nevada Division of Environmental Protection (Division) is proposing to approve and issue the modified Permit.

Facility Summary

Introduction

The facility is located on county-owned land in Eureka County, approximately ¼ mile east of Eureka. The disposal facility currently receives waste mainly from the Eureka area.

General Information

The disposal facility is unlined and no groundwater monitoring is conducted, the County having been granted a waiver by the Division with the initial Permit issuance in 1996. The waiver was based primarily on the small size of the landfill and the substantial distance to groundwater from the ground surface (more than 200 feet). The facility will be constructed in phases, and when completed, will cover approximately 25.6 acres (including ancillary structures), with a total disposal capacity of approximately one million cubic yards.

Location and Land Use

The disposal facility is located approximately ¼ mile from the nearest public road, inhabited dwelling, and place of public gathering. The lands surrounding the project site are public lands administered by the Bureau of Land Management. These lands are undeveloped and considered open space.

Hydrogeologic Characteristics

The general stratigraphy underlying the site includes alluvium varying from 25 to 110 feet, with basaltic bedrock underlying the alluvium. The alluvium consists of silty sands with gravel, white to light brown to brown, non-plastic, dry to slightly damp, with a caliche matrix and coatings to approximately 15 feet, with sporadic caliche coatings on cobbles down to bedrock contact. The basalt is dark brown to gray brown, dense, weakly weathered, unaltered, with an aphanitic matrix and subhedral phenocrysts of plagioclase and pyroxene. No vesicular or highly fractured zones which would indicate increased secondary permeability in the basalts were noted during drilling.



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Measurements of static water levels in boreholes drilled as part of the site characterization varied from a maximum of 350 to a minimum of 280 feet below the original ground surface. Direction of groundwater flow was estimated to be from southwest to northeast.

Climate

The mean annual precipitation for the site is approximately 12.64 inches and the average snowfall is approximately 66.5 inches. Temperatures in the region range from an average high of 85.9 degrees Fahrenheit in July to an average low of 17.1 degrees Fahrenheit in January, with a mean average daily temperature of 46.6 degrees Fahrenheit.

Topography

The site is on a north-facing slope of the southwestern flank of the Diamond Mountains. The topography exhibits moderate relief, and elevations at the site range from approximately 6,530 to 6,710 feet above mean sea level. Slopes at the site range in steepness from approximately 4 percent to 30 percent with the site generally sloping to the north. A valley feature encompasses most of the western portion of the 40-acre site with a north-south trending ridge occupying the eastern 1/3 of the site.

Design

The expansion of the landfill will ultimately cover approximately 25.6 acres. The landfill is constructed in lifts and will have a final slope of 3H:1V on all four sides. When completed the top of the landfill will be approximately 40 feet above existing grade with diversion berms to slow any runoff and convey it to the nearest stormwater feature. Access roads to the site are maintained year-round and a perimeter road has been constructed for landfill development and access. Haul roads will be constructed to access the working face on an on-going basis.

Cell Development

The originally permitted landfill design delineated two phases with a total of seven cells within the disposal area boundary (I-A, I-B, I-C, I-D, II-A, II-B, and II-C) as well as separate, dedicated areas for medical waste/animal carcass disposal and a Construction and Demolition waste cell. The expansion of the landfill approved in 2015 added a third phase with four additional cells (III-A, III-B, III-C and III-D). The disposal of dewatered sewage sludge will be in a dedicated area in the western portion of Cell I-D (southwest corner of the landfill area).

Waste Placement

Waste disposed of at the working face will be covered with a 6-inch layer of soil and compacted at the end of each day with a heavy tracked dozer or compactor. The process of placing, covering, and compacting waste will be repeated until a lift thickness of approximately 10 feet is reached. Cover material will come from cell construction activities. Waste will be placed in this manner until final elevations are reached. Waste slopes that make up the exterior slope of the landfill will be constructed with slopes no greater than 3:1.

Waste Types

Waste accepted at the facility consists of municipal solid waste, construction and demolition waste, and the following special wastes: tires, bulky items (white goods, furniture, etc.), animal carcasses, and locally generated medical waste. The proposed modification will add dewatered sewage sludge from a municipal wastewater treatment facility, to be disposed of in a designated area, and to be covered by 12 inches of compacted soil within 12 hours of disposal. It is estimated that 8000 cubic yards of sludge will be disposed of every 5 years.



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Site Access

Access to the site can be achieved by traveling north on paved County Road M101 from its intersection with US Highway 50 for roughly 1.3 miles, from there traveling east on County Road M102 for approximately 0.3 miles, then turning south on the landfill access road.

Borrow and Stockpile Areas

Cell construction activities will be utilized to provide the fill soil needed to achieve the base grade elevations. These borrow sources will also provide adequate quantities of soil for daily, intermediate, and final cover. Stockpile areas will vary from time to time and will be left up to the discretion of the landfill operator.

Location Relative to Groundwater Surface

Groundwater surface elevations within the limits of the Class II Disposal Facility range from approximately 280 to 350 feet below base grades. Water level measurements from boreholes drilled during site characterization were used to generate groundwater contours which show a gradient from southwest to northeast across the property.

Run-on Control Systems

The run-on control system for the facility has been designed to intercept and divert the upland run-on for at least a 25 year, 24-hour storm event. This is accomplished through construction of run-on control ditches around the upslope perimeter of each landfill component, each leading to a system of culverts and riprap lined discharge ditches downstream of the facility in natural drainages.

Run-off Control Systems

Run-off from the site will be carried by a system of diversion ditches which convey flows from direct precipitation into a detention basin. A 25-year, 24-hour storm event was used as the design basis for all of the run-off control systems.

Landfill Gas Monitoring System

A landfill gas monitoring program has been developed in accordance with NAC 444.670. Five wells are in place around the landfill perimeter and are sampled quarterly for detection of landfill gas.

Closure

A closure and post-closure monitoring plan has been developed in accordance with NAC 444.6895. Details of the closure and post-closure monitoring program are contained in the Closure Plan submitted as part of the facility's Application for a permit to operate a Class II disposal site.

Document Availability

The ADMINISTRATIVE RECORD, which includes the DRAFT PERMIT, and correspondence are available for public review by appointment between 8:00 AM and 5:00 PM, Monday through Friday, at the Division offices located at: 901 S. Stewart St., Suite 4001, Carson City, NV 89701-5249.

Contact: Paul Eckert at (775) 687-9477, or by e-mail at: PEckert@ndep.nv.gov

Procedure for Public Review

Questions or comments may be submitted on or before the end of the public comment period.

In writing: Paul Eckert, P.E.
Nevada Division of Environmental Protection
Bureau of Sustainable Materials Management
901 S. Stewart St., Suite 4001
Carson City, NV 89701-5249



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Phone: (775) 687-9477; fax: (775) 687-5856; e-mail: PEckert@ndep.nv.gov; or web: <http://ndep.nv.gov/admin/public.htm>

The Division's Notice of Intent to approve the modified Permit for the Eureka County Class II Landfill subject to the conditions contained in the Permit, will be published on the NDEP website. Additionally, the Public Notice will be mailed to interested persons on our mailing list. The Division will accept written comments on the proposed draft permit from all interested persons until the end of the public comment period.

Will there be a public hearing?

The Division has not scheduled a public hearing. A request for a public hearing may be submitted in writing to the address shown above. If the request is granted, a separate Public Notice will be published.

When does the comment period end?

The 30-day comment period ends at 5:00 p.m. on **May 20th 2020**. Anyone wishing to comment should do so in writing prior to this date. The Division may extend the comment period as deemed necessary.

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