

Section 18. SOLID WASTE

Construction of the wind turbines, underground collection lines, project substation and Operations and Maintenance facility is expected to generate approximately 2600 cubic yards of solid waste and demolition debris during construction. A projected 360 cubic yards will be generated annually during operations, much of it recyclable. Solid waste during construction will consist primarily of wood pallets used to package wind turbines for delivery. Recycling and reuse are the preferred methods of disposing of these materials. Solid waste during operation will consist of primarily office waste.

18.1. CLEARED VEGETATION AND ORGANIC DEBRIS

Cleared vegetation will be harvested and removed to be sold or chipped and flailed on site. Stumps removed from the Project area will be ground onsite and used to create erosion control mix and mulch for use as erosion and sedimentation control materials. Small woody debris will be made available to Project SHARE for use in salmon habitat and stream restoration work within the Project area and beyond. Any land clearing debris that is disposed on on-site will be done with landowner consultation and in compliance with 38 M.R.S. § 1301 et. seq. and all applicable sections of the Solid Waste Management Rules.

18.2. CONSTRUCTION DEBRIS AND OPERATIONAL WASTE

Waste concrete will be used for the sub-base for access roads and turbine pads. Concrete truck wash-down is prohibited to flow into state waters (38 M.R.S.A. 464). Concrete trucks will, whenever possible, use washout facilities at their own plant or dispatch facility. If necessary, the contractor will designate specific washout areas and design facilities to handle washout water. Washout areas will be located at least 150 feet away from any storm drains, swales, or delineated streams and wetlands. If used, washout facilities will be inspected daily.

Construction debris will be disposed of at licensed disposal facilities. The estimated 2600 cubic yards of construction and demolition debris will be delivered to the Juniper Ridge Landfill by a licensed solid waste hauler. The Project has consulted with Juniper Ridge and confirmed that it has the capacity to receive this waste (Exhibit 18-1). Approximately 75 large truck, skidder, or tractor tires may be generated during project construction and operations. These tires will be delivered to and accepted by BDS Waste Disposal, Inc.

When the Project is operational there will be a small amount of solid waste generated at the site, primarily consisting of office waste. Waste oil and filters from vehicle maintenance will be picked up and disposed of by a licensed waste oil transporter. Office waste will be collected at the O&M building by a licensed solid waste hauler and delivered to Penobscot Energy Recovery Company, with recyclable metals being directed to AIM Recycling. PERC is capable of accepting the 30 cubic yards per month of Municipal Solid Waste (MSW): office trash, maintenance personnel trash, and small tires generated during project maintenance and O&M building operations (Exhibit 18-1).

The several types of solid waste expected to be generated as a result of the Project are summarized in Table 18-1 below.

Table 18-1. Anticipated solid waste¹ to be disposed of at a licensed facility

Type of Material	Turbine Areas	Collection Line	Substation Construction	O&M Construction	O&M Waste
Stumps/Grubbings	No	No	No	No	No
Metal Banding	Yes	Yes	No	Yes	Yes
Disposable Metal	Yes	Yes	Yes	Yes	Yes
Cable Reels	Yes	Yes	No	No	No
Scrap Cable	Yes	Yes	No	No	No
Insulators	Yes	Yes	No	No	No
Broken Porcelain	No	No	No	No	No
Building Insulation	No	No	Yes	Yes	Yes
Waste Oil and Filters	No	No	No	No	Yes
Damaged Culverts	Yes	Yes	No	No	No
Tires	Yes	Yes	No	Yes	Yes
Office Trash	Yes	Yes	Yes	Yes	Yes
Construction Personnel Trash (bottles, cans, etc.)	Yes	Yes	Yes	Yes	No
Demolition debris	No	No	No	Yes	No
Scraps/Junk	Yes	Yes	Yes	Yes	Yes
Total Estimated Volume	1500 cubic yards	500 cubic yards	200 cubic yards	400 cubic yards	360 cubic yards (annual)

¹ Does not include rock, earth, or wood chips (which may be used by a third party or chipped on site and used within the project area).



EXHIBIT 18-1: SOLID WASTE CAPACITY LETTERS



Operated By NEWSME Landfill Operations, LLC

March 01, 2021

Robert Gee
Apex Clean Energy, Inc.
366 US Hwy 1
Columbia, ME 04623

RE: Juniper Ridge Landfill Disposal Capacity

Dear Mr. Gee,

Juniper Ridge Landfill is a State of Maine owned non-hazardous solid waste disposal facility that has the ability and capacity to accept approximately 2600 cubic yards of in-state construction and demolition debris from the proposed Downeast Wind Project.

As of December 31, 2020, JRL has roughly 1,540,599 cubic yards of capacity remaining in its currently constructed Cells 1-12. Also permitted but not yet constructed (Cells 13-17), is another roughly 5,918,200 cubic yards, which brings the total remaining permitted site capacity to roughly 7,458,799 cubic yards, under Maine Solid Waste licenses #S-20700-WD-7A-A-N (Amended #S-020700-WD-N-A) and #S-020700-WD-BI-N.

Sincerely,

NEWSME Landfill Operations, LLC

Jeffrey Pelletier
Environmental Manager



**BDS Waste Disposal, Inc.
P.O. Box 319
Fairfield, ME 04937**

Phone (207) 278-3833

March 8, 2021

Robert Gee
Apex Clean Energy, Inc.
366 US Hwy 1
Columbia, ME 04623

Subject: Tire Disposal Capacity Statement
Downeast Wind Project
Columbia, ME

Dear Mr. Gee

This letter is to confirm that BDS Waste Disposal, Inc. located in Norridgewock, Maine. Has the capacity to accept and dispose of the estimated 75 large tires. That may be generated during the construction of the Downeast wind project in the Columbia, ME.

If you should have any questions, please contact me at 207-278-3833

Sincerely,

Scott Matteson
General Manager



Penobscot Energy Recovery Company

29 Industrial Way
Orrington, Maine 04474
(207) 825-4566

ESOCO ORRINGTON, LLC
Plant Operator

March 4, 2021

Mr. Robert Gee
Apex Clean Energy, Inc
366 US Hwy 1
Columbia, ME 04623

Re: Downeast Wind

Dear Mr. Gee

This letter is to confirm that Penobscot Energy Recovery Company, located in Orrington, Maine has the capacity to accept and dispose of the estimated 30 cubic yards per month of Municipal Solid Waste consisting basically of office trash, personnel trash and tires to be generated by the Downeast Wind project. The tires would need to be passenger or light pickup truck tires, no large truck tires or skidder or tractor tires.

If you should have any questions please feel free to contact me at 825-4566 extension 117.

Sincerely,
Penobscot Energy Recovery Company

Gary A. Stacey
Plant Controller