

Odors and Solid Wastes

Applicable Ordinances

- Sec. 82-56. The code enforcement officer or Planning Board shall review a completed application and shall approve, approve it with conditions, or deny an application based on its findings regarding conformance with the following standards: (3) **Will adequately provide for the disposal of all wastewater**
- Sec. 90-42 (b) (18) **Solid waste management**. The proposed development will provide for adequate disposal of solid wastes. All solid waste will be disposed of at a licensed disposal facility having adequate capacity to accept the project's waste.
- Sec. 90-42 (b) (26) **Hazardous waste**. The applicant shall demonstrate compliance with federal and state laws and regulations when hazardous waste is generated or stored on-site
- Sec. 90-42 (b) (27) **Prevention or control of air pollution**. No use shall be allowed which creates a substantial risk of air pollution, whether by dust, chemicals, odor or otherwise, which would pose a significant risk of harm to local populations within the City or injury to wildlife, vegetation or to property, or harm to use and enjoyment or surrounding property. It is not the intent of this provision to merely require compliance with state or federal air quality standards, but rather to enforce a standard which may be more encompassing and strict than those state and federal standards as presently constituted.
- Sec. 90-42 (b) (29). **Adequacy of waste disposal**. The applicant shall clearly demonstrate to the planning board that all quantities and types of waste generated by the proposed use can be dealt with and disposed of while maintaining safe and healthful conditions.
- Sec. 102-102 (2). A written statement by the applicant that shall include the following: (e) **Method of solid waste disposal**
- Sec. 102-102 (3) (d). The applicant's evaluation of the availability and **suitability of off-site public facilities, including sewer, water, streets and solid waste**.
- Sec. 102-1127. **No land use or establishment shall be permitted to produce noxious or harmful odors perceptible beyond the lot lines, either at ground or habitable elevation.**

Solid Waste Management

Methods of solid waste disposal, Waste

	Filtrate	Fish Processing Biproducts	Construction waste Universal waste Office trash Hazardous waste
Plan A	Biogas and/or Compost/Soil Amendment	Pet food and/or Nutritional Supplements and/or Bait	Reuse Firewood Gravel, clean fill Recycle Paper Metal Plastics Landfill
Plan B	Landfill	Biogas and/or Compost and/or Landfill	Landfill

Solid Waste Management

Adequacy of waste disposal

Filtrate and Morts

Processing byproducts

Construction waste
Universal waste
Office Trash
Hazardous Waste



Odors

Processing byproducts have value, they will be immediately frozen / chilled and stored in insulated containers for shipping and recycling

- **Potential Sources**

- Filtrate from Wastewater Treatment Plant
- Feed
- Fish Processing
- Mortalities

- **Operational Control Measures**

- Everything is Indoors
- WWTP filtrate is dewatered and sealed in tanks until transport
- Feed storage is indoors in enclosed silos
- Mortalities removed from tanks, preserved, and shipped offsite.

- **Best Management Practices**

- Regular removal
- Temperature control
- Air treatment technology

- **Employee Training**

- **Staff with Decades of Industry Experience**

- **Trusted Local Partners to Efficiently Remove and Recycle Potential Sources of Odor**

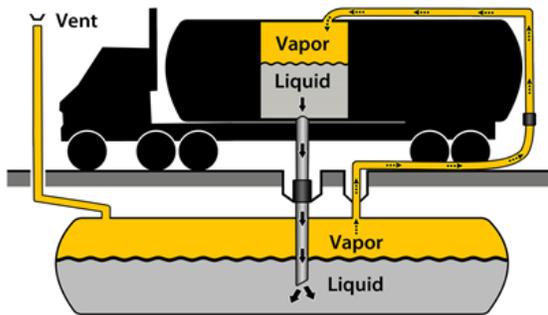
Odors

Storage of potentially odiferous materials

- **Potential Sources**

- Filtrate from Wastewater Treatment Plant
- Feed
- Fish processing biproducts
- Mortalities

Filtrate



Feed



Processing biproducts

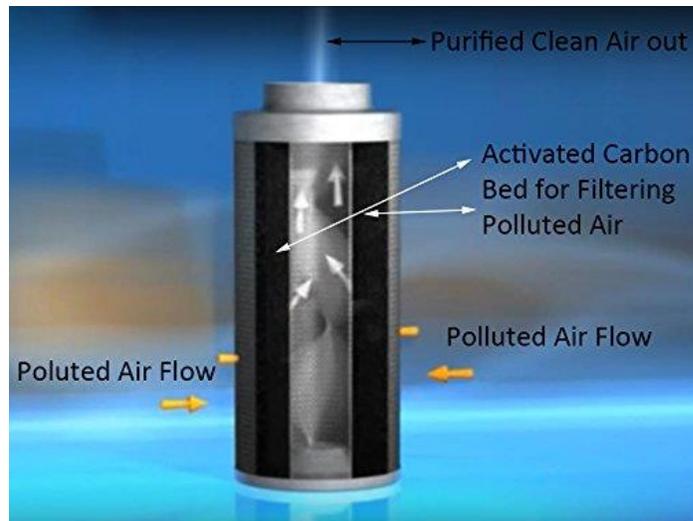
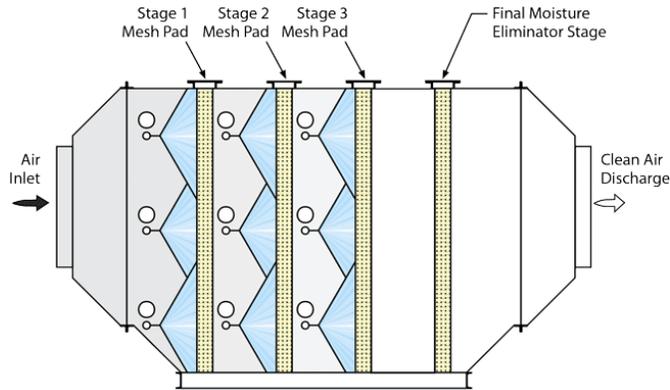


Mortalities



Odors

Containment: Air treatment infrastructure



- HVAC designed to maintain negative pressure
- Recapture and treat air using proven odor control technology
 - Carbon adsorption
 - Multistage scrubbers

Odor and Solid Waste Management

Maine DEP, SLODA application, Section 18 and 22

City of Belfast Permit Attachment 10, 21

TABLE 18-2
Solid Waste Collectors and Disposal Facilities

Type	Collectors	Disposal Facilities
<i>Construction</i>		
Construction & Demolition Debris	Casella / Pine Tree Waste Services Waste Management	Juniper Ridge Landfill, West Old Town, ME Crossroads Landfill, Norridgewock, ME or partner location
Land Clearing Debris (timber)	Comprehensive Land Technologies, Inc. Waldo County Woodshed	Processed and sold Waldo County Woodshed Yard, Searsmont, ME
Land Clearing Debris (brush & stumps)	Casella / Pine Tree Waste Services Waste Management	Gary Pomeroy Logging, Hermon, ME Crossroads Landfill, Norridgewock, ME or partner location
Land Clearing Debris (soil)	Casella / Pine Tree Waste Services Waste Management	Gary Pomeroy Logging, Hermon, ME Crossroads Landfill, Norridgewock, ME or partner location
Land Clearing Debris (rock)	Casella / Pine Tree Waste Services Waste Management	Gary Pomeroy Logging, Hermon, ME Crossroads Landfill, Norridgewock, ME or partner location
Universal Waste	Casella / Pine Tree Waste Services Waste Management	North Coast Services, Hampden, ME Crossroads Landfill, Norridgewock, ME or partner location
Special Waste (asbestos insulation)	Casella / Pine Tree Waste Services Waste Management	Juniper Ridge Landfill, West Old Town, ME Crossroads Landfill, Norridgewock, ME or partner location
Special Waste (asbestos roofing)	Casella / Pine Tree Waste Services Waste Management	Juniper Ridge Landfill, West Old Town, ME Crossroads Landfill, Norridgewock, ME or partner location
Special Waste (PAH-impacted soils)	Casella / Pine Tree Waste Services Waste Management	Juniper Ridge Landfill, West Old Town, ME Crossroads Landfill, Norridgewock, ME or partner location
Belfast Bay Sediment	Casella / Pine Tree Waste Services Waste Management	Juniper Ridge Landfill, West Old Town, ME Crossroads Landfill, Norridgewock, ME or partner location
<i>Operation</i>		
Filtrate (WWTP)	Agri-Cycle Energy Casella Organics Channel Fish Co., Inc. Coast of Maine Organic Products, Inc. Compost Maine LLC Waste Management	Exeter Agri-Energy Facility, Exeter, ME or partner location Hawk Ridge Compost Facility, Unity, ME or partner location Partner location Company facility in Marion Township, ME Company facility to be developed in Belfast, ME Crossroads Landfill, Norridgewock, ME or partner location
Irone Slough (IWTP)	Agri-Cycle Energy Casella Organics Waste Management	Exeter Agri-Energy Facility, Exeter, ME or partner location Hawk Ridge Compost Facility, Unity, ME or partner location Crossroads Landfill, Norridgewock, ME or partner location
Salmon Processing Solids (heads, guts, mortalities, etc.)	Agri-Cycle Energy Casella Organics Channel Fish Co., Inc. Coast of Maine Organic Products, Inc. Compost Maine LLC Waste Management	Exeter Agri-Energy Facility, Exeter, ME or partner location Hawk Ridge Compost Facility, Unity, ME or partner location Company processing facility, East Boston, MA Company facility in Marion Township, ME Company facility to be developed in Belfast, ME Crossroads Landfill, Norridgewock, ME or partner location
Salmon Processing Grease (Fat Trap)	Agri-Cycle Energy Casella Organics Waste Management	Exeter Agri-Energy Facility, Exeter, ME or partner location Hawk Ridge Compost Facility, Unity, ME or partner location Crossroads Landfill, Norridgewock, ME or partner location
Municipal Solid Waste	Casella / Pine Tree Waste Services Waste Management	Penobscot Energy Recovery Corp. Facility, Orrington, ME Crossroads Landfill, Norridgewock, ME or partner location
Universal Waste	Casella / Pine Tree Waste Services Waste Management	North Coast Services, Hampden, ME Crossroads Landfill, Norridgewock, ME or partner location
Recyclable Products	Casella / Pine Tree Waste Services Waste Management	Company's Zero Sort Facility, Lewiston, ME or partner location Crossroads Environmental Complex, Norridgewock, ME

Odors and Solid Wastes

References

- Sec. 82-56 (3) **Will adequately provide for the disposal of all wastewater**
 - Attachment 21, City of Belfast Permit Application
 - Drawings CU100, CU102, and CU106-109, City of Belfast Permit Application
- Sec. 90-42 (b) (18) **Solid waste management**
 - Attachments 10 and 21, City of Belfast Permit Application
- Sec. 90-42 (b) (26) **Hazardous waste.**
 - Attachments 2 and 21, City of Belfast Permit Application
- Sec. 90-42 (b) (27) **Prevention or control of air pollution.**
 - Attachment 31, City of Belfast Permit Application
- Sec. 90-42 (b) (29). **Adequacy of waste disposal.**
 - Attachment 21, City of Belfast Permit Application
- Sec. 102-102 (2). A written statement by the applicant that shall include the following: (e) **Method of solid waste disposal**
 - Attachment 21, City of Belfast Permit Application
- Sec. 102-102 (3) (d). **suitability of off-site public facilities, including sewer, water, streets and solid waste.**
 - Attachment 10, City of Belfast Permit Application
- Sec. 102-1127. **No land use or establishment shall be permitted to produce noxious or harmful odors perceptible beyond the lot lines, either at ground or habitable elevation.**
 - Attachment 35, City of Belfast Permit Application