

TRANSFER STATION OPERATING PLAN
TOWN OF NORTH KINGSTOWN
(Revised July 2018)

This Operating Plan is for the Town's Transfer Station located at 345 Devils Foot Road for licensing period September 1, 2018 – September 1, 2021. This plan revised in July 2018 replaces the Operating Plan dated June 2016.

1. **OPERATING HOURS**

The transfer station is open Tuesday, Friday and Saturday from 7:30 a.m. – 3:00 p.m. It is closed Sunday, Monday, Wednesday, Thursday and Holidays.

2. **OPERATING DESIGN CAPACITIES**

The North Kingstown Transfer Station presently handles up to 25 tons per day (TPD) of incoming solid waste. The facility contains a leaf and yard waste composting operation. The facility also has roll-off containers for the collection and separation of recyclables such as cardboard, bottles, cans, plastic containers, rigid plastics, tires, brush, white goods, walk-in containers for clean (recyclable) mattresses and box springs; drop-in collection bins for used books, slightly used clothing and shoes and the facility has an area for the collection of waste oil, car batteries and propane tanks. It also has a vehicle weigh scale. The town receives seasonal Christmas trees, which are sent to RIRRC's seasonal chipping program. Currently, the town processes over 3,000 tons of municipal solid waste (MSW) annually at the transfer station.

Used waste oil is collected as part of the State DEM Waste Oil Recycling Program. Interstate Refrigerant Recovery, Inc., a licensed contractor, has been contracted to remove the CFC from appliances with refrigerants and the remaining metal is then recycled through Exeter Scrap Metal. Used tires are transported to the Central Landfill for disposal. Vehicle batteries are disposed of with a local recycling company. Propane Tanks are recycled through Exeter Scrap Metal. The Town has suspended its partnership with Office Recycling Solutions (ORS) for the collection and recycling of e-waste from Town residents at the Transfer Station until e-waste regulations are amended to allow the program to continue.

The Town of North Kingstown presently sends all of the town's municipal solid waste (MSW) to the Central Landfill in Johnston, RI. The town has an annual tonnage cap in the range of 7985 tons at the Central Landfill, which is determined on a fiscal year basis. In calendar year 2017, North Kingstown accounted for a total of 5964 tons of MSW traveling over the Central Landfill scales. Of this total, 2403 tons were transported to RIRRC from the town's transfer station. The remaining 3561 tons assessed to the town's total MSW cap was transported directly to the Central Landfill by private haulers. The majority of the MSW

collected at the transfer station is transported to the Central Landfill by tractor-trailers, hauled by a private waste hauler under contract to the Town of North Kingstown.

The Town of North Kingstown utilizes a pay-as-you-throw program for town residents to dispose of their household trash, requiring residents to purchase tags that are adhered to the bag of trash and cover the costs of collection, transportation and disposal. All other commodities accepted at the transfer station, except recyclables, are weighed and are paid for on a unit cost per pound basis. The tags are purchased either at the Town Hall or at the facility's scale house.

3. TYPES OF REFUSE TO BE ACCEPTED WITH CORRESPONDING APPROXIMATE PERCENTAGES OF TOTAL REFUSE. (Also see attached Operation and Maintenance Plan for the Town of North Kingstown's Leaf and Yard Waste Composting Facility.)

Various refuse accepted at the Transfer Station in 2017 included approximately 152 tons of scrap metals and white goods, 2.28 tons of clean recyclable wood, 287 tons of land clearing debris (brush), 9.8 tons of tires, 33.14 tons of mattresses/box springs, 14.71 tons of mixed C&D debris, 194 tons of treated wood and 8.9 tons of used clothing, textiles and books. The recycling program in North Kingstown contributed 3208 tons of single stream recyclables to the MRF, of which 194 tons were delivered via roll-off containers from the transfer station facility. An additional 5.96 tons of rigid plastics and 37.7 tons of used motor oil and filters were recycled at the facility. The transfer station is a drop-off site for NK residents to recycle clean box springs and mattresses. All non-recyclable mattresses are treated as MSW. Of the 33 tons of mattresses and box springs accepted at the facility in 2017, 33 tons were recycled through RI's Bye Bye Mattress Program and .14 tons were brought to the Central Landfill for disposal.

Waste oil, oil filters, and car batteries are stored in the same general area on concrete pads. Batteries are stored in a 4 by 4 by 3-foot container. Oil filters are stored in 3-55 gallon drums. Residents may recycle used waste oil at the facility as part of DEM's Waste Oil\Used Oil Filter C\R Program. The waste oil is collected and stored in a 500 gallon, double walled waste oil tank. A wooden shed covers the tank. Scrap metal and white goods are stored in a paved area formed by concrete blocks. The tire area is adjacent to the scrap metal area. Yard waste is composted on-site in windrows on a paved area measuring approximately 0.7 acres. Maximum yearly compost is contained within three windrows 20-ft to 25-ft wide, 180-ft in length, spaced 32-ft apart.

4. PERSONNEL AND DUTIES

There are two permanent employees, employed by the Town to operate the transfer station. One site foreman/heavy equipment operator is available to operate the loader, with one clerical person operating the scale house and performing other miscellaneous activities. Other DPW clerical staff and heavy equipment operators will be used to supplement the operation as needed.

5. DUST CONTROL PROGRAM

Facility service roads and site collection areas are paved. The compost pad area is paved and will generally be covered by the windrows of composting materials. Any accumulation of dust producing material will be removed with a power broom.

6. ODOR CONTROL PROGRAM

If an odor problem develops it will be dealt with by the utilization of any one of many commercially available deodorizers if a mechanical or operational remedy cannot be found.

7. LITTER CONTROL PROGRAM

The transfer station is a metal building with two large access doors on the east side and three throw windows on the north side. The building will protect the light refuse from blowing away. All residential refuse must be placed in plastic bags. Any litter that may blow away unexpectedly will most likely be caught on the litter control fencing that surrounds the site. Transfer Station personnel are also used for site litter control and the site is periodically swept with town owned Elgin sweepers.

8. SUBSTITUTE DISPOSAL AND/OR TRANSFER ARRANGEMENTS

Private contractors, under contract with the town, transport all MSW collected at this facility, to the Central Landfill. Town services, personnel and equipment, are occasionally used to supplement this effort, or if the contractor is unable to perform contractual duties. The Town is under contract with Link Environmental LLC to provide tractor-trailer hauling services and Waste Management of RI for roll-off container service removal at the facility. In the event these contracts are unexpectedly terminated, the Town would re-bid the contract(s) and use Town employees to provide the necessary services until the hiring of a new contractor(s) or use other local private haulers on an interim basis. The Town maintains a small fleet of vehicles that can be used to haul MSW in an emergency. This includes a roll-off truck with three-30 cubic yard containers, as well as an open top “walking floor” trailer rated at 80 cubic yards. The Town’s

Highway division has three operators licensed to drive tractor-trailers and 10 operators with Class B CDL's. As long as there is access to this site, the collection and transportation off-site of this waste is not a problem. If the tipping building becomes unusable for whatever reason, a temporary covering could be constructed in the parking or access ramp areas that would allow for the clean and dry transfer of MSW into these containers. The Town also maintains a backup loader, dedicated to the Transfer Station, in the event that the loader suffers mechanical failure.

9. **COMMUNICATIONS EQUIPMENT AVAILABLE**

Commercial telephone communication is available at the transfer station site. The site is also accessible by a public works 2-way radio. The transfer station computer is connected to the Town's network providing e-mail access to all Town departments. A communication intercom/sound system provides communication between the scale house and the tipping building.

10. **POPULATION AND SERVICE AREA**

The population of the Town of North Kingstown, according to 2010 U.S. Census data, is 26,486. The Town will only accept refuse from its population and certain businesses located within the boundaries of this 44-square mile community.

11. **PROVISION FOR LIMITED ACCESS**

Provisional access to the transfer station scale will be given to the North Kingstown Police Department Truck Squad for periodic use as a weigh station outside of normal business hours, usually occurring overnight. The only other exception to this is the occasional police patrol that will check the site and the use of the transfer station, by public works personnel, during an emergency. Access to the facility is secured nightly with locked gates.

12. **WEIGHING FACILITIES (IF ANY)**

The Town of North Kingstown owns and operates a scale at this facility.

13. **AESTHETIC CONSIDERATIONS**

The transfer station site is in a remote, wooded, industrial area of the old U.S. Navy West Davisville District. The site is buffered on the north and east from the few residential dwellings located nearby through the use of screening trees. The site is bordered by the relocated Route 403 to the south and by a sedimentation basin constructed for highway drainage to the west. All household waste will be stored in the tipping building and all recyclables placed in roll-off containers.

14. METHODS OF SOLID WASTE AND LEACHATE CONTAINMENT

As described in sections 2 and 3 of this Plan, solid waste at the facility is contained within the tipping building and is removed from the tipping floor into a transfer trailer located in the tipping pit below. The solid waste will be moved continually during the day as part of normal operations. Items previously indicated as being collected outside the building are stored in roll-off containers or in the case of scrap metal and white goods, on a designated paved area. Batteries are stored in a box and waste oil is stored in a double walled container. Leachate containment is provided for the tipping building to prevent any travel of leachate outside the building. Floor drain grates are located in the northeast and southeast corners of the tipping floor at the building entrance. The tipping floor is pitched to direct leachate runoff, if any, into the floor drain grates. The floor drain collection system is piped outside of the building and is connected to an underground leachate collection tank located outside the building below the pavement. The collection tank is a double-walled, fiberglass tank with a 1,000 gallon holding capacity. A floor drain grate is located in the southwest corner of the pit floor near the exit. The pit floor is sloped to direct leachate runoff into the floor drain grate, which is connected to the underground leachate collection tank. The Town on an as-needed basis will pump the leachate collection tank periodically with the leachate liquid disposed of at a facility approved by the DEM.

15. FINAL DISPOSAL ARRANGEMENTS

All solid waste will be transported to the State Solid Waste Facility in Johnston, RI, by town forces and private contractors under contract to the Town of North Kingstown.

16. VECTOR CONTROL PROGRAM

If any problem develops with rodents, reasonable measures will be taken to use commercially available products for control. The Town maintains a contract with a local pest control company, and has one employee licensed as well.

17. FIRE CONTROL AND PREVENTION PROVISIONS

Public water is available at the station building and may be used to control a fire. The tipping floor building is provided fire protection by a dry-pipe system located within the building. A CO₂ fire extinguisher is also available. Fire prevention will be practiced through good housekeeping.

18. ON SITE TRAFFIC PATTERNS

All vehicles, whether private or commercial, will utilize a one-way traffic circulation pattern when accessing the throw windows and the roll-off containers. All vehicles accessing the tipping floor will be asked to back into the tipping building from the access ramp and exit to the left around the building and exit towards the scale house. All vehicles accessing the compost facility will utilize a one-way traffic circulation pattern in a counter-clockwise direction. The scale is operated using traffic signals.

19. SPECIAL AND HAZARDOUS WASTE HANDLING PROCEDURES

The Town of North Kingstown will not knowingly accept hazardous waste.

20. BULKY WASTE HANDLING PROCEDURES

Materials in this category will be separated and, if acceptable to the Town, placed in separate roll-off containers. Bulky items (those that will not fit into a 34-gallon plastic bag) and appliances without refrigerants are charged by the weight. CFC is removed from items containing refrigerant by a licensed contractor on site and the remaining metal is recycled. Any bulky item containing PCB capacitors are separated on site. The capacitors will be either removed by licensed personnel at the transfer station site or be delivered to a metal recycling facility where the company removes the capacitors.

21. ROUTINE HOUSE CLEANING SCHEDULES

Daily litter and site cleaning will be the responsibility of staff assigned to this facility. The site will be periodically swept using mechanical sweepers.

22. RECYCLING OPERATIONS

Drop off areas will be provided for MRF recyclable materials. Delivery of these materials will be by private contractor (under contract with the town), and all recyclable materials, except for scrap metal, will be taken to the RIRRC Materials Recycling Facility (MRF) in Johnston, RI.

23. NON-PROCESSIBLE WASTE

All users of the facility will be checked at the scale house. All materials deposited at the facility will be checked and if not of the type which is accepted per the DEM Operating License agreement, the material will not be allowed to be disposed of at the facility. If necessary, police enforcement action will be used to insure compliance.