

TRANSFER STATION OPERATING PLAN
TOWN OF NORTH KINGSTOWN
(Revised March 2009)

This Operating Plan is for the Town's Transfer Station located at 345 Devils Foot Road. This facility opened on June 14, 2005, replacing the now closed facility at 601 Devils Foot Road. This Plan replaces the previous Operating Plan dated July 2006.

1. **OPERATING HOURS**

The transfer station is open Tuesday through Saturday from 7:30 a.m. – 3:00 p.m. It is closed Sunday, Monday 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, tires, brush, white goods, mattresses and box springs; walk-in containers for e-waste; 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 3,300 tons of municipal solid waste (MSW) annually at the transfer station.

The 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. Batteries are disposed of with a local recycling company. Propane Tanks are recycled through Tank Recyclers, Middleton, MA. The Town is a participant in the state sponsored program for collection and recycling of e-waste. Two containers are used for this recycling effort; one container for televisions and CRT monitors labeled "Universal Waste – Cathode Ray Tube(s)" and a second container labeled "Universal Waste – Mercury-Containing Equipment" for other peripheral e-waste (non-CRT items) including, but not limited to, printers, faxes, keyboards, UPSs and computers.

As small quantity handlers of universal waste, Transfer Station personnel will receive training on proper handling and emergency procedures relative to spillage or breakage of universal waste items. A copy of handling procedures will be posted at the facility. In the event of spillage or breakage of universal waste, if it is determined that material resulting from the release is hazardous waste, such hazardous waste shall be managed in compliance with all applicable portions of

40 CFR 260 – 272. Universal waste shall be transported from the facility by the licensed contractor participating in the State sponsored program for CRT containing equipment and by Office Recycling Solutions (ORS) for non-CRT items collected. Universal waste shall not be allowed to accumulate for periods longer than one year from the date the universal waste was received at the facility.

The Town of North Kingstown presently sends all of the town's municipal solid waste (MSW), including mattresses and box springs, to the Central Landfill in Johnston, RI. The town has an annual tonnage cap in the range of 10,027 tons at the Central Landfill, which is determined on a fiscal year basis. In fiscal year 2008, North Kingstown accounted for a total of 7704 tons of MSW traveling over the Central Landfill scales. Of this total, 2506 tons were transported to RIRRC from the town's transfer station. The remaining 5198 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.

Since July 1, 1999 North Kingstown has had 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.)

Other refuse accepted at the Transfer Station last year included approximately 134.0 tons of metals, 16.7 tons of clean recyclable wood, 621 tons of leaf and yard debris (brush), 10.6 tons of tires, 18.5 tons of mattresses/box springs and less than .25 ton of Earth Day litter debris. The recycling program also contributed 2372 tons of maximum recycled paper to the MRF, of which 306 tons were delivered via roll-off containers from the transfer station facility, and 1582 tons of mixed recyclables, of which 61.08 tons were recycled through the town's transfer station facility.

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 full-time 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 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 currently in the final year of a four-year contract with Waste Management of Rhode Island Inc. to provide tractor-trailer and container service

removal at the facility through December 2009. In the event this contract is unexpectedly terminated, the Town would re-bid the contract and use Town employees to provide the necessary services until the hiring of a new contractor 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 12 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 2000 U.S. Census data, is 26,236. 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 recyclable materials. Delivery of these materials will be by private contractor, 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.