

Morris County New Jersey

Solid Waste Management Plan Amendment

**Inclusion of Electronic Recyclers International, Inc.
Class “D” Recycling Center for Electronics Demanufacturing
Borough of Lincoln Park, New Jersey**

April 2017

**Prepared for the
Morris County Board of Chosen Freeholders**



**Prepared by the
Morris County Municipal Utilities Authority
Solid Waste Management Staff**



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Introduction

The New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 *et. seq.*) established a comprehensive system for the management of solid waste in New Jersey. The Act designated all twenty-one (21) of the state's counties, and the Hackensack Meadowlands District, as Solid Waste Management Districts, and mandated the respective Boards of Chosen Freeholders and the Meadowlands Development Commission develop comprehensive plans for waste management in their respective districts. On January 29, 1981, the New Jersey Department of Environmental Protection (NJDEP) approved, with modifications, the Morris County District Solid Waste Management Plan (Plan). The Act further requires that all new solid waste facilities be approved for Plan inclusion.

This document has been prepared to amend the Plan to include the Electronic Recyclers International, Inc. (ERI) class "D" electronics (E-waste) demanufacturing recycling facility in the Borough of Lincoln Park, Morris County, New Jersey within the Plan.

ERI currently operates a limited recycling center, pursuant to an exemption provided in N.J.A.C. 7:26A-1.4(a).15, for accepting, consolidating and transferring whole units of electronics. ERI is requesting Plan inclusion for the purpose of expanding this operation to also include the demanufacturing (disassembly) of E-waste. To demanufacture electronics in New Jersey a facility is required to obtain general approval as a class "D" recycling center from NJDEP which first requires inclusion in the district Plan.

Site Description

The ERI site is located at 510 Ryerson Road, Units 2&3 in the Borough of Lincoln Park, Morris County, New Jersey (Tax Block 22; Lot 338). Figure 1 provides a site location map for ERI. This lot is 14.74 acres and contains a 144,000-sq. ft. warehouse, of which, the ERI facility occupies 37%, or 53,500 sq. ft., of this warehouse building.

Source Area

ERI has public and private sector contracts for several large generators of E-waste such as the City of New York. Additionally, the facility, has been, and will continue to be open and available to the general public for the drop-off of covered electronic devices on an appointment basis. There will be no limitations on the source area from where E-waste is generated for recycling at the ERI facility.

Type of Material

The only materials received, stored, processed and/or transferred at this facility will be source separated class "D" recyclables limited to video display devices, desktop, laptops, servers, all other E-waste, batteries and universal waste lamps. No other materials are proposed for recycling at this facility.

Electronics Recyclers International, Inc.
Class D Electronics Demanufacturing Recycling Facility
510 Ryerson Road, Units 2 & 3
Lincoln Park, Morris County, NJ (Tax Block 22; Lot 338)

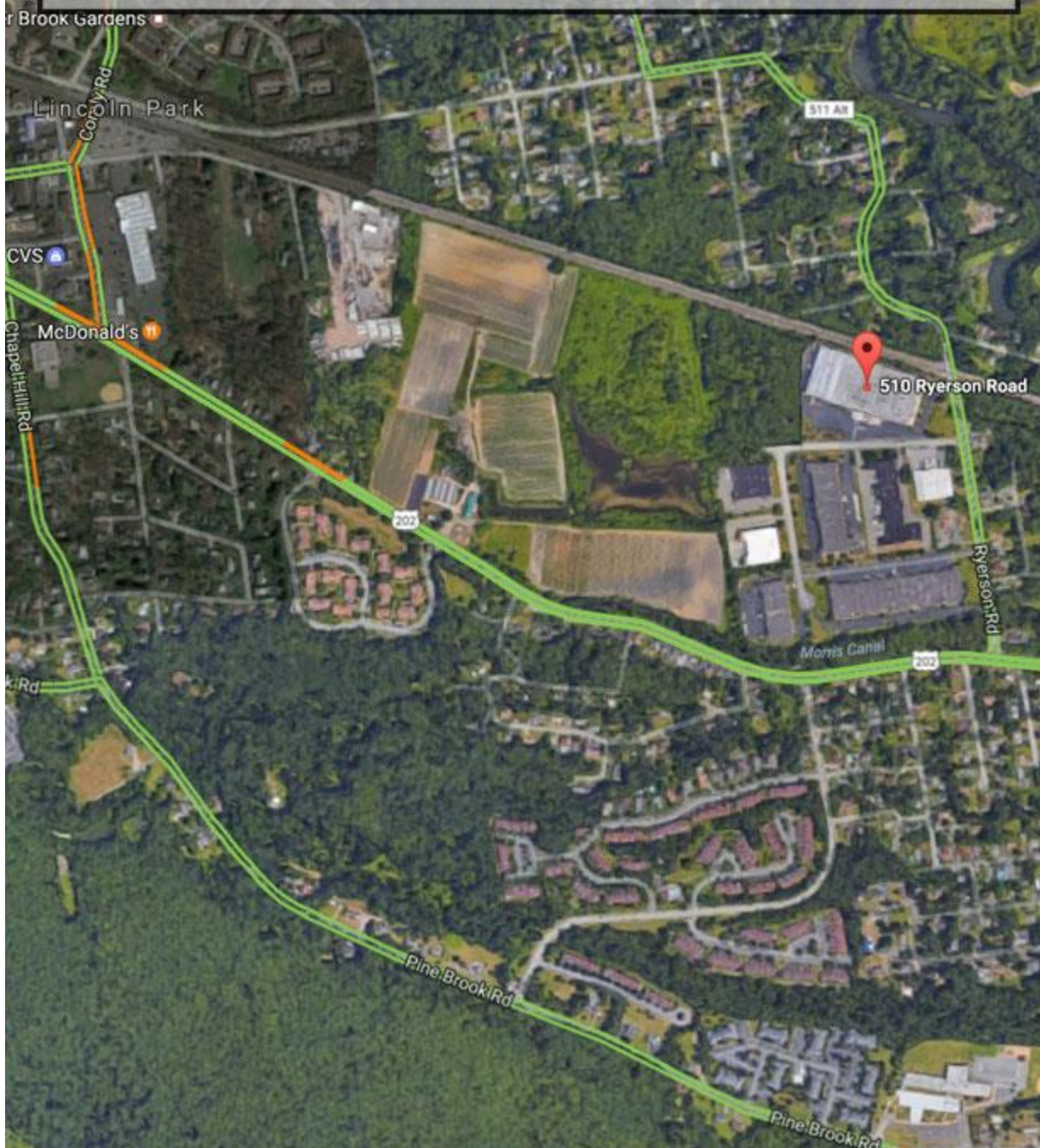


Figure 1 Location Map - Electronic Recyclers International, Inc. Site Location Map, Lincoln Park, NJ

Disposal of Residue:

Any residue requiring disposal will be delivered to the Morris County transfer station in accordance with the flow control requirements of the Morris County Solid Waste Management Plan.

Facility Capacity

It is anticipated that the average daily receipt of materials will be approximately 75 tons. The maximum capacity of electronic material stored at this site will be 1,551 tons or 6,203 cubic yards (500 pounds per cubic yard conversion factor).

Processing of Electronic Materials

Reception and Registration - Upon receipt, all electronic equipment will be unloaded in a secure docking area. Materials will be separated by component and prepared for registration. Each pallet will be affixed with an Internal ID tag to allow for tracking of the device throughout the entire recycling process, weighed and registered within ERI's in-house data resource management system, which stores data from all ERI facilities. Once weighed and registered, materials will then be processed based on ERI's "Reuse, Refurbish, Recover, Dispose" hierarchy. ERI is able to fully process each device in-house through to the item's resale or down to the commodity level.

Reuse/Refurbish - Following weighing and registration, the material will be graded by an ERI employee. Devices will be evaluated based on the physical condition of the product and mark the high/low market value of the item, in order to identify equipment that can be refurbished and resold. ERI's grading of the physical condition of products are; A: New/Uke New, B: Signs of normal use or light scratching, C: Heavy scratching, dents, cracks or missing parts and EOL: End of life, damaged beyond repair. The focus of ERI's team includes both the in-tact devices as well as any parts that are able to be harvested. If it is deemed economically feasible to refurbish and resell the item or a component of the item, the device will enter ERI's Asset Management Program for further testing, data destruction, refurbishment and resale. However, if it is deemed economically unfeasible, the material will enter ERI's Commodity Recovery Program for the demanufacturing and recycling of commodities. All processing is performed within the secure ERI facility, with no device leaving the site prior to resale or demanufacturing to commodity form.

Commodity Recovery - All material that is deemed economically unfeasible for asset resale or refurbishment will be transferred to ERI's commodity recovery program. Glass-containing items will be separated from all other E-waste. Glass containing items will be moved to a separate area where the CRTs will be removed from their outer casings. Glass will be packaged into Gaylord boxes and sent for glass to glass manufacturing pursuant to all requirements of the e-Stewards standard as well as international, federal, state and local regulations.

All other items go directly to a demanufacturing table. All metals and plastics will be separate and stored in baled or loose commodity form until they are either shipped to ERI shredder facilities or to downstream smelting partners. All items such as batteries will be managed and

sent for proper handling to approved and permitted facilities. ERI's total solution process flow allows ERI to bring all material down to the separated commodity level (plastic, metal, glass) and thus increase the value of those commodities when they are sold for processing into new materials.

ERI's total solution process flow allows ERI to bring materials down to the separated commodity level (plastic, metal, glass) and thus increase the value of these commodities when they are sold for processing into new materials. All commodities are then sent to approved and audited vendors that have been vetted through ERI's Downstream Vendor Management Program. Examples of commodities recovered by ERI include: high and low grade precious metals, cooper, aluminum, steel, TV and monitor boards, plastic, brass, memory, wiring and processors.

ERI has downstream vendor ownership through its relationships with LS Nikko Copper and Alcoa. These relationships reduce ERI's and client's downstream liability since it is able to send commodities directly to a thoroughly audited smelter. ERI has a zero-illegal exporting policy that is strictly enforced. ERI processes all electronic waste down to the commodity and component level with only 2-3% of the total component parts (mainly the wood paneling from older televisions and stereos) disposed of in a landfill.

Downstream Vendor Management Program – ERI's Downstream Vendor Management Program includes internal and independent audits to ensure compliance with local, state, federal, and international laws and regulations as well as e-Stewards, R2, and ERI's own internal standards. These thorough audits encompass reviews of downstream vendors' recycling processes, continued downstream partners, regulatory compliance, liability, and finances in order to verify compliance and competency. These audits have the dual purpose of meeting our e-Stewards and R2 certification requirements as well as guaranteeing downstream compliance and reducing liability for ERI and its clients.

Traffic

Electronic materials arriving to the subject facility will normally arrive and depart the facility via a combination of box trucks, tractor trailers, or UPS courier trucks. It is anticipated that approximately 15-20 trucks per day would arrive during the course of a normal 12.5 hour working day, or 1-2 trucks per hour. It is anticipated that there would be approximately 5-10 trucks taking material from the recycling center during the course of a normal working day, or approximately 0-1 per hour. This small amount of additional truck traffic, in an area containing several industrial and commercial facilities, and which contains an existing warehouse, is anticipated not to be significant, and should have no impact on nearby roads, traffic volumes, or levels of service. Also, there is sufficient internal room within the site to accommodate these vehicles without requiring queuing on external public roadways.

Trucks bringing or taking class "D" material to and from this facility would enter the facility from Borinski Road, after having turned off of Ryerson Road which is in front of the subject property. All roads to this facility are public roadways.

Hours of Operation

The facility's maximum hours of for receipt, processing and/or transfer shall be:

- Monday – Saturday 5:30am to 6:00pm , Sundays – Closed

Access To The Facility

ERI shall grant access to designated representatives of the Morris County Solid Waste Advisory Council, Morris County Municipal Utilities Authority, Morris County Office of Health Management, Borough of Lincoln Park, Certified County Lead Agency from any county that waste is received from, Local Health Department, and the New Jersey Department of Environmental Protection for the purpose of inspection of site operations and waste management records.

Municipal Input

Appendix A provides a copy of Resolution No. R17-83 adopted by the governing body of the Borough of Lincoln Park on February 21, 2017 providing support for including the ERI class “D” recycling center in the Plan.

Plan Amendment

Pursuant to N.J.S.A. 13:1E-1 et. seq. Morris County proposes to include the class “D” electronics demanufacturing recycling center operated by Electronic Recyclers International, Borough of Lincoln Park (Tax Block 22, Lot 338), Morris County, New Jersey into the Morris County Solid Waste Management Plan. A map illustrating the site location has been included in Figure 1.

This proposed plan amendment is in conformance with the approved Plan by providing for the management of solid wastes generated in Morris County.

To insure the broadest possible participation by the general public in this plan amendment process, the Morris County Board of Chosen Freeholders will conduct a public hearing. All County residents, public officials or organizations interested in this action are encouraged to attend the public meeting and offer testimony.

Inquiries and written comments concerning this proposed plan amendment may be addressed to:

- Morris County Board of Chosen Freeholders
P.O. Box 900, Morristown, New Jersey 07963-0900
- Morris County Municipal Utilities Authority
214A Center Grove Road, Randolph, NJ 07869

RESOLUTION R17-83

RESOLUTION SUPPORTING THE APPLICATION OF ELECTRONIC RECYCLERS INTERNATIONAL, INC. REQUEST TO BE INCLUDED IN THE MORRIS COUNTY SOLID WASTE MANAGEMENT PLAN AS A CLASS "D" ELECTRONICS RECYCLING CENTER

WHEREAS, Electronic Recyclers International, Inc. has applied to the Morris County Solid Waste Advisory Council (SWAC) for inclusion in the Morris County Solid Waste Management Plan as a class "D" recycling center; and


WHEREAS, the proposed Electronic Recyclers International, Inc. recycling center is located at 510 Ryerson Road (Block 22, Lot 338) on the tax map of the Borough of Lincoln Park; and

WHEREAS, the Borough has reviewed the application dated January 12, 2017 and submitted by Electronic Recyclers International, Inc. to the Morris County Solid Waste Advisory Council (SWAC); and


WHEREAS, the Borough supports the inclusion of Electronic Recyclers International, Inc. recycling center in the Morris County Solid Waste Management Plan; and

NOW, THEREFORE, BE IT RESOLVED, by the Borough Council of the Borough of Lincoln Park, County of Morris, State of New Jersey:


1. That the Borough supports the inclusion of Electronic Recyclers International, Inc., recycling center located at 510 Ryerson Road in the Borough of Lincoln Park in the Morris County Solid Waste Management Plan as a class "D" recycling center; and
2. That the Borough Clerk be directed to forward a certified copy of this resolution to the Morris County Solid Waste Advisory Council (SWAC); and
3. That this Resolution shall take effect immediately.


Gary Gemian, Council President

ATTEST:


Cynthia L. Sloane, R.M.C., C.M.R.
Borough Clerk

I, Cynthia L. Sloane, Municipal Clerk of the Borough of Lincoln Park, County of Morris, do hereby Certify the foregoing to be a true and correct copy of a Resolution Adopted by the Governing Body at the February 21, 2017 Regular Meeting.


Cynthia L. Sloane, R.M.C., C.M.R., Borough Clerk
BOROUGH OF LINCOLN PARK

Cc: Electronic Recyclers Int. Inc.
Morris County Solid Waste Advisory Council – Certified Copy
Rick Beyer
File Copy