

AMENDMENT #27
TO THE CUMBERLAND COUNTY
SOLID WASTE MANAGEMENT PLAN



CUMBERLAND COUNTY IMPROVEMENT AUTHORITY
745 LEBANON ROAD
MILLVILLE, NEW JERSEY 08332
AUGUST 2019

**AMENDMENT NO. 27 TO THE CUMBERLAND COUNTY
SOLID WASTE MANAGEMENT PLAN**



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1.0 INTRODUCTION

The County of Cumberland proposes to amend the Cumberland County Solid Waste Management Plan (CCSWMP or County Plan) pursuant to the requirements of the New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et. seq.). The New Jersey Solid Waste Management Act (the Act) designates each county in the State and the Hackensack Meadowlands District as solid waste management districts and provides each county and the Hackensack Meadowlands Development Commission with the authority to develop and implement comprehensive solid waste management plans which meet the needs of every municipality within each county and within the Hackensack Meadowlands District. The Act requires that all district plans be based on and accompanied by a report detailing the existing waste disposal situation in the district, and a plan which includes the strategy to be followed by the district in meeting the solid waste management needs of the district for a 10-year planning period. The Act further provides that a district may review its plan at any time and, if found inadequate, adopt a new plan.

The Cumberland County Solid Waste Management Plan was adopted by the Cumberland County Board of Chosen Freeholders on December 13, 1979 and approved with modifications by the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) on March 4, 1981. Since 1981, twenty-five amendments to the SWMP have been adopted by the Board of Chosen Freeholders and approved by the Commissioner.

The purpose of the twenty-seventh (27) amendment to the Cumberland County Solid Waste Management Plan is as follows:

1. To add a Class "B/C" Recycling Facility at the Cumberland County Solid Waste Complex into the Cumberland County Solid Waste Management Plan.

To insure the broadest possible participation by the general public in this Plan Amendment process, the Cumberland County Board of Chosen Freeholders has scheduled a public hearing on 27th day, August 2019 at 6:00 P.M. at 164 W. Broad Street, Bridgeton. All County residents, public officials or organizations interested in Amendment No. 27 to the SWMP are encouraged to attend and offer testimony.

Copies of Plan Amendment No. 27 are available for review at:

- The office of the Cumberland County Improvement Authority, located at 745 Lebanon Road, Millville, NJ 08332
- The office of the County Clerk, located at 60 West Broad Street, Bridgeton, NJ.

- The Municipal Clerk’s office in each of the 14 Cumberland County Municipalities

Inquiries and/or comments concerning this proposed Plan Amendment may be forwarded in writing to:

Cumberland County Board of Chosen Freeholders
 164 West Broad Street
 Bridgeton, NJ 08302 or

Cumberland County Improvement Authority
 745 Lebanon Road
 Millville, NJ 08332

2.0 SUMMARY OF CUMBERLAND COUNTY SOLID WASTE MANAGEMENT PLAN

The Cumberland County Solid Waste Management Plan was adopted by the Cumberland County Board of Chosen Freeholders on December 13, 1979 and approved with modifications by the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) on March 4, 1981. The SWMP consists of an integrated approach to solid waste management that includes waste reduction, source separation and recycling, resource recovery, and landfilling.

The original SWMP set forth a process for siting a regional landfill to serve Cumberland County, developing a resource recovery facility to serve the County, and developing recycling programs in each municipality in the County. Furthermore, the plan designated the Cumberland County Improvement Authority (Improvement Authority) as the solid waste implementing agency within the County. In order to further develop the SWMP and meet the requirements of the Solid Waste Management Act and the Mandatory Source Separation and Recycling Act that was passed in 1987, the County prepared several plan amendments that are described below:

<u>Amendment No.</u>	<u>Date of Amendment</u>	<u>NJDEP Approval</u>	<u>Purpose of Amendment</u>
1	July 14, 1983	December 22, 1983*	Prepare background studies and update the Solid Waste Management Plan.
2	March 15, 1984	July 30, 1984	Select site for Cumberland County Solid Waste Complex.

<u>Amendment No.</u>	<u>Date of Amendment</u>	<u>NJDEP Approval</u>	<u>Purpose of Amendment</u>
3	May 8, 1986	October 9, 1986	Leaf and vegetative waste composting policy, interim disposal capacity, transportation analysis and construction debris.
4	October 17, 1987	March 9, 1988*	County Recycling Plan.
5	October 17, 1987	March 9, 1988*	Resource Recovery Investment Tax (RRIT) disbursement schedule, convenience centers, solid waste contingency plan, existing landfill closures and litter abatement partnership program.
6	July 26, 1989	November 27, 1989*	Modifications to Amendment No. 4 and No. 5 as required by NJDEP.
7	December 20, 1989	June 4, 1990	Use of RRIT funds for Material Separating Facility (MSF) and household recycling buckets.
8	July 18, 1981	January 3, 1992*	Include recycling centers located in the County, development of a bulky waste recycling facility at the Solid Waste Complex and expand use of RRIT funds for MSF operating costs.
9	June 9, 1992	September 18, 1992 November 17, 1992*	Revise RRIT fund disbursement schedule, include additional recycling centers located in the County, address recommendations of NJDEP Emergency Solid Waste Assessment Task Force Final Report and include blanket inclusion policy for recycling centers.
10	April 14, 1994	August 15, 1994	Response to Governor's Emergency Solid Waste Assessment Task Force in the areas of recycling, enforcement, education and source reduction Plan for debris disposal from the demolition of the County Manor.
11	December 15, 1994	April 27, 1995	Expanding Amendment No. 10, includes procurement practices, household hazardous waste collection program and collection of recyclables. Delays construction of bulky waste recycling facility (see Amendment No. 8) and includes a Class "B" recycling center into the County Plan.
12	June 22, 1995	August 3, 1995	Inclusion of a Class "B" recycling center into the County Plan.

<u>Amendment No.</u>	<u>Date of Amendment</u>	<u>NJDEP Approval</u>	<u>Purpose of Amendment</u>
13	April 10, 1997	August 5, 1997	Revise RRIT fund disbursement schedule and deletes construction of bulky waste recycling facility from the County Plan (see Amendment No. 11).
14	January 15, 1998	April 24, 1998	Response to May 1, 1997 decision of the U.S. Court of Appeals for the Third Circuit, which declared unconstitutional New Jersey's historic system of solid waste flow control.
15	May 11, 2000	October 9, 2000	Revised solid waste disposal strategy; Increased the permitted disposal capacity of the Cumberland County Solid Waste Complex (CCSWC) landfill; Added Block 76, Lots 18 and 19 and portions of Lots 2, 3 and 4 in Deerfield Township to the existing permitted CCSWC landfill site to provide additional buffer and storm water detention; Added Kennedy Concrete, INC., in the City of Vineland, as a Class "B" Recycling Center for the recycling of concrete; and Added Federal Disposal, Inc., in the City Vineland, as Class A/Class B Recycling Facility and as a Material Recovery/Solid Waste Transfer Station.
16	August 2003 (Rev. Oct. 2003)	July 13, 2004	Adds: Recyclables Transfer Station; Class "B" Recycling Facility for Tires; Clean Wood Chipping Operation; Leaf Composting Facility; and Permanent Household Hazardous Waste Collection Facility at the Cumberland County Solid Waste Complex. Adds an additional four acres to the Mid Atlantic Recycling Technology, Inc. (MART) facility located at Block 89, Lot 14 in the City of Vineland. Adds an exempt leaf composting facility proposed by the Township of Maurice River to be located on Block 250, Lot 5 in Maurice River Township.
17	February 2005	August 10, 2005	Includes Nature's Choice as a Class "B" Recycling Facility located on Block 905, Lots 6 in Upper Deerfield Township for the receipt, storage, processing, and/or transfer of whole trees, tree trunks, tree parts, tree stumps, brush and clean pallets.

<u>Amendment No.</u>	<u>Date of Amendment</u>	<u>NJDEP Approval</u>	<u>Purpose of Amendment</u>
18	November, 2005	April 26, 2006	Includes a lateral and vertical expansion of the landfill; new commercial convenience center; new access roads, scales and scale house; new equipment storage and maintenance facility; new diesel and gasoline fueling station; modifications to Administration/ maintenance facility to accommodate employee needs; Modifications to Material Separating Facility to house a public education and employee training center; improvements to leachate collection, pretreatment and load-out facilities; Aerobic/anaerobic bioreactor RD&D project. Removes Federal Disposal from the county solid waste management plan.
19	October 25, 2007	April 25, 2008	2007 Update of the Cumberland County Solid Waste Management Plan, in response to the requirements of the Statewide Solid Waste Management Plan Update.
20	April 7, 2008	August 5, 2008	Adds Thompson's Paving, Inc. as a Class "B" Recycling Facility for the receipt, processing and/or transfer of whole trees, tree trunks, tree parts, tree stumps, brush, untreated pallets and untreated wood; and for the receipt, storage, processing and/or transfer of concrete, brick, and block. Provides for the inclusion of Renewable Energy Projects and potential Greenhouse Gas Reduction Projects at the Cumberland County Solid Waste Complex.
21	April 26, 2011	July 7, 2011	Re-institutes solid waste flow control within Cumberland County and designates the Cumberland County Solid Waste Complex as the designated disposal facility for all solid waste types 10, 13, 13C, 23, 25, 27, and 27A generated within Cumberland County.

<u>Amendment No.</u>	<u>Date of Amendment</u>	<u>NJDEP Approval</u>	<u>Purpose of Amendment</u>
22	October 22, 2013	May 8, 2014	Deletion of Casie Ecology Oil Savage Inc., Class "D" Recycling Facility (Casie) and Mid-Atlantic Recycling Technology Class "B" Recycling Facility from the Cumberland County Solid Waste Management Plan.
23	December 22, 2015	October 24, 2016	Add a Class "B" Recycling Facility for the Cumberland County Solid Waste Complex.
24	December 22, 2015	October 20, 2018	AMP New Jersey, LLC and Energy 3 LLC upgrade existing gasification facility to accept up to 99 tons of solid waste.
25	September 27, 2016	April 10, 2017	Correct an omitted volume that was inadvertently missed in the calculation for the vertical and lateral expansion that was part of Amendment No. 18.
26	August 28, 2018	March 6, 2019	Remove certain language relating to the out of state disposal of Cumberland County generated, non-recyclable solid waste.

3.0 PURPOSE AND BACKGROUND

The SYNAGRO- WCWNJ, LLC proposed Biosolids and Organics Recycling, Class B/C Recycling Facility (hereinafter referred to as the Recycling Center or Facility) is located on 745 Lebanon Road in Deerfield Township, Cumberland County. The proposed Facility will occupy approximately 22.80 acres within Deerfield Township's Block 76, Lot 3 (50.49 acres).

The proposed Class B/C recycling center is intended perform recycling of feedstock such as digested and undigested biosolids, other organics such as pre-consumer food waste that meets composting and product quality specifications, along with amendment materials consisting of unpainted and non-chemically treated wood, tree stumps, tree parts, trees, wood, and wood pallets. Amendment materials are primarily used as bulking agents to maintain porosity during the composting process and to maintain the process at optimal conditions. Above noted recyclable biosolids and organics are commonly referred to as feedstock. In addition, a small quantity of heat dried biosolids can also be added as amendment to enhance product quality. Amendment material that are received whole at the facility will be ground as the first

step of the composting operations. No materials will leave the site as Class B recyclable material.

The composting process will be completed within the process building and will include the treatment of odors by an engineered biofilter. While the primary process to create a marketable end product will occur indoors, operations such as final product storage and screening/sizing will occur under cover. Amendment materials will be stored outdoors prior to use in the processing of the materials.

The facility has been designed to process up to 70 dry tons per day (231 wet tons at 30% TS) of bio-solids. Volumetrically this is approximately 290 CY per day. The 290 CY of biosolid would typically be blended with 350 CY of amendment and 157 CY of recycled overs oversized each day.

An alternative mix of material consisting of 290 CY of biosolids to 600 CY of amendment may be used in the event the available amendment has a higher moisture content. The specific ratios are subject to change market conditions, product quality, and amendment availability.

The facility may accept pre-consumer food waste that meets composting and product quality specifications. The facility operator will vary the mix design for food waste material based on the composition of the specific inbound material load.

It is anticipated that average daily processing will result in 300 CY per day of marketable compost for distribution. Estimated annual product production is approximately 43,500 wet tons per year (28,000 dry tons at 65% TS).

The Recycling Center proposes to receive materials between 7:00 AM - 5:00 PM Monday through Friday and between 7:00 AM and 2:00 PM on Saturday. The composting process is a continuous process and therefore will occur 24 hours per day and 7 days per week. Outdoor operations may occur from 7:00 AM to 10:00 PM, which are daytime hours as defined by the Noise Control Act of 1971, N.J.S.A. 13:1G-1.

The amendment material deposited in the "Amendment Storage Area." The amendment material storage may be storage in a pile of up to 20-feet high. The maximum storage volume of amendment material awaiting processing will not exceed 44,060 CY.

Processed compost will be stored outdoors within the Product Storage Area. The compost in the Processed Storage Area, may be storage in a pile of up to 20-feet high. The maximum potential storage volume of marketable compost material is approximately 54,000 CY.

The Biosolids and Organics Recycling Facility will provide a biosolids and organics recycling solution to generators across the County, create an economic benefit to the County through reduced biosolids and organics disposal costs, host fee generation, support of other CCIA initiatives, enable future economic growth / stability by ensuring food processors have reliable residuals management capacity, and produce a high quality compost product for sale to retail, horticultural, commercial, and agricultural users. For these reasons it is proposed to add the subject facility into the Cumberland County Solid Waste Management Plan.

3.1 THE PLAN

Upon Cumberland County Board of Chosen Freeholder's adoption of Plan Amendment 27, and the subsequent certification by the Commissioner of the NJDEP; Amendment 27 would be formally incorporated into the Cumberland County Solid Waste Management Plan.