

YOLO COUNTY UNINCORPORATED AREA NONDISPOSAL FACILITY ELEMENT

California Public Resources Code (PRC), Section 41730 et seq., requires every California city and county to prepare and adopt a Nondisposal Facility Element (NDFE) for all new nondisposal facilities, and any expansions of existing nondisposal facilities, which will be needed to implement local Source Reduction and Recycling Elements (SRREs). A "nondisposal facility" is defined as any solid waste facility required to obtain a state solid waste facility permit, except a disposal facility or a transformation facility (PRC Section 40151).

The County of Yolo has prepared an NDFE for the unincorporated area of the County as required by PRC Section 41730. The County is submitting a copy of its NDFE to the California Integrated Waste Management Board (CIWMB) for review and approval. The County's NDFE will be appended to the County's SRRE at the time of the five year revision. A draft of this NDFE was submitted to the County's local task force, the Yolo County Waste Advisory Committee, for review and comment in accordance with the requirements of PRC Sections 41734 (a) and (b). As indicated by PRC Section 41735 (a), the adoption or amendment of this element is not subject to environmental review under the California Environmental Quality Act (CEQA).

Existing State-Permitted Facilities

This NDFE acknowledges that there are no state-permitted nondisposal facilities within the County's jurisdiction except for the Esparto Convenience Center (Solid Waste Facility permit number 57-A-002). A fact sheet for the Esparto Convenience Center is included in Table M-1.

Solid Waste: Almost all solid waste generated in the unincorporated area of the County is taken either to the Yolo County Central Landfill (located on County Road 28H, north of Davis and east of Woodland) or the Esparto Convenience Center (located on County Road 19A north of Esparto). Both of these are state-permitted facilities (Solid Waste Facility permit number 57-AA-001). These are discussed in Section 8 of the County SRRE.

The University of California Davis campus which is located within the unincorporated area of the County maintains its own landfill, the UC Davis Sanitary Landfill. This is a state-permitted facility (Solid Waste Facility permit number 57-AA-004). This facility is used only by the UC Davis campus and does not accept material generated off-campus.

Yard Material: There are no municipal collection programs for green waste materials in the unincorporated area of Yolo County. Residents can take their green waste materials and wood waste to Valley By-Products, Inc. at the Yolo County Central Landfill; this material is then shredded and used as alternative daily cover (ADC).

Valley By-Products, Inc. is currently permitted as a wood and yard material processing facility under the Yolo County Central Landfill state solid waste permit. The current permit allows for wood and yard waste processing resulting in the following products: landscape materials, alternative daily cover for the Yolo County Central Landfill, and biomass fuel. Valley By-Products is now in the preliminary stages of pursuing a permit or revision to the existing permit to include composting operations at this facility.

UC Davis does collect some green waste on campus; much of this material is chipped and used on campus for landscaping and ground cover. Most of the material that is chipped for mulch is tree and shrub trimmings with a high wood content. Material which is not chipped is landfilled in the UC Davis landfill; this includes grass clippings, small woody materials, and other unchipped green waste. In 1994 the campus purchased a mulching mower to do grasscycling, and plans to buy more as older models are retired. There are no plans at the present time to compost any green materials on campus.

Agricultural Materials, Animal Manure, and Composting at UC Davis:

In the recent past the University operated a manure and bedding straw composting program at the UC Davis Sanitary Landfill operated by the Office of Environmental Services; this was not a state-permitted composting facility. As of January 1, 1995, this program was discontinued due to budgetary constraints. Until there is a firm commitment for funding to restart the program, the Office of Environmental Services will not be operating a composting program. Any future composting program will have to consider new CIWMB regulations regarding tiered permitting.

UC Davis' Student Experimental Farm has a small composting operation that has been underway for over a decade. The feedstock is a mix of kitchen food waste from the ASUCD Coffeehouse, bedding straw, and manure. This is a non-permitted facility and will probably remain so due to its small size.

Some of the manure material which had previously been composted by the Office of Environmental Services is now being stockpiled on campus and taken to an agricultural composting facility called Greenbelt Services in Dixon (Solano County). This arrangement is considered temporary, and is expected to cease if a decision is made to resume on-campus composting.

Recyclable Materials:

There is very limited municipal collection of recyclables within the unincorporated area of Yolo County. The exceptions are some areas immediately adjacent to the incorporated cities or individuals who contract directly with a private hauler for recyclable collection services. For example, there are several areas within the unincorporated County located near the City of Davis, such as El Macero and Willowbank, which have recyclables collected by Davis Waste Removal. These materials are taken to the Davis Waste Removal facility in Davis located at 2727 Second Street; this is not currently a state-permitted facility.

Drop-off centers for recyclable materials (including paper, glass, metals, corrugated cardboard, and plastic) are operated at both the Yolo County Central Landfill and the Esparto Convenience Center. The materials collected at the Yolo County Central Landfill are processed by Davis Waste Removal, located at 2727 Second Street in Davis; this is not a state-permitted facility. The materials collected at the Esparto Convenience Center are processed by Waste Management's Woodland Disposal facility located in Woodland at 1324 Paddock Place; this is not a state-permitted facility.

Inert Materials and Scrap Metals: The Yolo County Central Landfill permit allows for a scrap metal recovery area, concrete and asphalt reuse for roadbase, and a tire disposal collection area. These services are used by all the jurisdictions of Davis, West Sacramento, Winters, Woodland, and unincorporated Yolo County.

Currently no construction and demolition is landfilled at the UC Davis Landfill. UC Davis does store some concrete and asphalt rubble on-site at the Landfill. Construction firms working on campus are required by contract to remove construction and demolition waste from the campus. No effort is made by the University to determine the destination of this material.

Proposed Permitted Facilities

In terms of disposal facilities, page 8-10 of the Yolo County SRRE states that, "No new or expanded disposal facilities are planned for the unincorporated county through the planning horizon." There were several proposed non-disposal facilities described in the County's SRRE.

Solid Waste: It is anticipated that the County will continue to send its solid waste to the Yolo County Central Landfill, which has ample capacity beyond the fifteen year planning horizon of the SRRE.

It is also anticipated that the UC Davis landfill has adequate capacity over the next fifteen years (UC Davis SRRE, p.9-2). At the writing of the SRRE, "the existing permitted area at the UC Davis Landfill was anticipated to remain active and operating for a period of at least seven years, at which time it would be closed" (UC Davis SRRE, p.9-3); The campus is in the process of obtaining an expanded permit. However, "in the future the university may decide to export its waste to the Yolo County Central Landfill" (UC Davis SRRE, p.9-3).

Yard Material: It is anticipated that the Valley By-Products wood and yard material processing facility will expand in the near future to include composting of yard materials.

Recyclable Materials: In terms of nondisposal facilities, the County SRRE, p.4-50 states that the County will conduct a feasibility study regarding the siting of a regional materials recovery facility (MRF) at the Yolo County Central Landfill. If constructed this facility would serve the unincorporated area of the County as well as some of the

incorporated cities within the County. Although the Yolo County SRRE included a discussion of constructing a MRF; at this point in time, plans have not progressed to schedule such construction. It is anticipated that during the medium term a feasibility study will be conducted to determine whether a MRF, if built, would assist the County and some of the cities in meeting the goals of AB 939.

TABLE M-1
UNINCORPORATED YOLO COUNTY NDFE
ESPARTO CONVENIENCE CENTER
Fact Sheet

TYPE OF FACILITY	The Esparto Convenience Center (Solid Waste Facility permit number 57-A-002) is an existing Drop-Off Recycling Center and Transfer Facility. Esparto Convenience Center accepts from residents glass, plastic, aluminum, newspaper, metal goods, used oil, and used oil filters for recycling. The Transfer Station also accepts waste for transfer to the Yolo County Central Landfill.
FACILITY CAPACITY	The Esparto Convenience Center is designed to handle 20 tons of recyclable per month and 110 tons of waste per month for transfer to the Yolo County Central Landfill.
EXPECTED DIVERSION RATE	The Esparto Convenience Center is diverting from disposal approximately 58 tons per year from the Unincorporated County. A total of 1,318.76 tons of materials are generated at the Esparto Convenience Center annually. Overall, the Esparto Convenience Center is expected to divert from disposal approximately four percent of the waste material received at the Convenience Center. The amount of waste material diverted from disposal by Esparto Convenience Center is .16 tons per day.
LOCATION	Esparto Convenience Center is located in an agricultural general zone area of the unincorporated county. The facility is located near the community of Esparto, on County Road 19A with frontage on County Road 87. Inspections of the facility are conducted by the Yolo County Department of Environmental Health Services on behalf of the State.
PARTICIPATING JURISDICTIONS	Unincorporated Yolo County residents.

TABLE M-2
 UNINCORPORATED YOLO COUNTY NDFE
 AMENDMENT
 COMPOSTING FACILITY
 SPRECKELS SUGAR COMPANY
 Fact Sheet

TYPE OF FACILITY	Spreckels Sugar Company Composting Facility (Standardized Permit tier). This Composting Facility will handle green urban material (landscape trimmings, yard waste), and agricultural by-product feed stock (sugar beet stems, diatomaceous earth, pond lime).
FACILITY CAPACITY	Peak Loading: 550 tons or 1100 cubic yards per 24 hour day Annual Loading: 400,000 cubic yards
EXPECTED DIVERSION RATE	The Composting Facility is designed to handle up to 1100 cubic yards per day for diversion. Actual amounts diverted would probably average around 500-600 cubic yards per 24 hour day.
LOCATION	The Spreckels Composting Facility is located in an agricultural general zone area of the Unincorporated County. The facility is located on 40600 County Road 18C. Inspections are conducted by the Yolo County Department of Environmental Health on behalf of the State.
PARTICIPATING JURISDICTIONS	Some of the City of Woodland's green waste may go to the proposed facility. Any surrounding community is a possible participating jurisdiction.

TABLE M-3 (Revised December 2000)
UNINCORPORATED YOLO COUNTY NDFE
AMENDMENT
COMPOSTING FACILITY
ENVIRONMENTAL RECLAIMING SOLUTIONS
Fact Sheet

<p>TYPE OF FACILITY</p>	<p>Environmental Reclaiming Solutions (ERS) is a composting facility that accepts green waste material, and processes and composts the material through grinding, screening and windrow methods. The facility produces soil amendments and cogeneration fuel. Vermicomposting methods may be included in the future.</p>
<p>FACILITY CAPACITY</p>	<p>Peak Loading: 300 tons per day</p> <p>Average Annual Loading: 23,400 tons per year</p>
<p>EXPECTED DIVERSION RATE</p>	<p>ERS can potentially receive an average of 90 tons of green waste material per day, five days per week .</p>
<p>LOCATION</p>	<p>ERS is located in a agricultural preserve zone area of the unincorporated area of Yolo County. The facility is located at 11220 County Road 94. Inspections are conducted by the Yolo County Department of Environmental Health (Local Enforcement Agency) on behalf of the State.</p>
<p>PARTICIPATING JURISDICTIONS</p>	<p>Davis Waste Removal is under contract with the City of Davis to collect green waste material at curb side. Presently, ERS receives all of its green waste material from Davis Waste Removal.</p>

**TABLE M-3
UNINCORPORATED YOLO COUNTY NDFE
AMENDMENT
COMPOSTING FACILITY
ENVIRONMENTAL RECLAIMING SOLUTIONS
Fact Sheet**

TYPE OF FACILITY	Environmental Reclaiming Solutions (ERS) is a tiered green waste composting facility that accepts "clean green" organic material and processes it using both windrow and vermicomposting methods.
FACILITY CAPACITY	Peak Loading: 100 tons per day Annual Loading: 7,000 tons per year
EXPECTED DIVERSION RATE	ERS handles an average of 80 tons per day or 7,000 tons annually.
LOCATION	ERS is located in a agricultural preserve zone area of the Unincorporated Yolo County. The facility is located at 11220 County Road 94. Inspections are conducted by the Yolo County Department of Environmental Health on behalf of the State.
PARTICIPATING JURISDICTIONS	Presently, ERS receives a majority of its organic material from Davis Waste Removal.

TABLE M - 4
 UNINCORPORATED YOLO COUNTY NDFE
 AMENDMENT
 SOLID WASTE TRANSFER STATION
 DAVIS WASTE REMOVAL CO. INC.
 Fact Sheet

TYPE OF FACILITY	SOLID WASTE TRANSFER STATION: RESIDENTIAL AND COMMERCIAL NON-PROCESSABLE WASTES WILL BE RECEIVED AT THE FACILITY. WASTE MATERIALS WILL BE LOADED INTO TRANSFER TRAILERS FOR TRANSPORT TO A REGIONAL DISPOSAL SITE. TIPPING FLOOR WILL CONSIST OF A 100 FT BY 250 FT BUILDING ENCLOSED ON ALL FOUR SIDES.
FACILITY CAPACITY	PEAK LOADING: 250 TONS PER DAY ANNUAL LOADING; 37,000 TONS
EXPECTED DIVERSION RATE	5% - 10% PRIMARILY CONSTRUCTION WASTES AND CARDBOARD.
LOCATION	UNINCORPORATED AREA OF YOLO COUNTY. 26375 COUNTY ROAD 105D (PROPERTY KNOWN AS THE "WESTLANE SITE")
PARTICIPATING JURISDICTIONS	RESIDENTIAL AND COMMERCIAL SOLID WASTES GENERATED WITHIN THE INCORPORATED CITY OF DAVIS: 96% WASTE FROM UNINCORPORATED AREAS: 4%

TABLE M-5 (Revised February 2008)
UNINCORPORATED YOLO COUNTY NDFE
AMENDMENT
LANDFILL-BASED ANAEROBIC DIGESTION COMPOST PILOT PROJECT
YOLO COUNTY CENTRAL LANDFILL
Fact Sheet

<p>TYPE OF FACILITY</p>	<p>The landfill-based anaerobic digestion compost pilot project (AD project) will accept green waste material and will recover methane gas while decomposing the organic material into compost product. At the end of the process, the cell contents will be aerated, excavated, and cured for use as compost either on-site or off-site.</p>
<p>FACILITY CAPACITY</p>	<p>Peak Loading: 500 tons per day Average Loading: 100 tons per day Maximum Annual Loading: 179,500 tons (500 tpd @ 359 operating days per year)</p> <p>The initial anaerobic digestion cell is being built with the approximate dimensions of 100-feet-long by 200-feet-wide by 20-feet-high.</p> <p>Future operations will incorporate a batch reaction process with the size dependant upon the initial cell results.</p>
<p>EXPECTED DIVERSION RATE</p>	<p>The diversion rate is expected to be greater than 95 percent</p>
<p>LOCATION</p>	<p>The AD project is located on a portion of the Yolo County Central Landfill, 44090 County Road 28H, Woodland, CA 95776</p>
<p>PARTICIPATING JURISDICTIONS</p>	<p>Unincorporated Yolo County, as well as the cities of Davis, Woodland, West Sacramento, and Winters will contribute material to the facility</p>

TABLE M-6 (Revised January 2008)
UNINCORPORATED YOLO COUNTY NDFE
AMENDMENT
CONSTRUCTION, DEMOLITION AND INERTS FACILITY
YOLO COUNTY CENTRAL LANDFILL
Fact Sheet

<p>TYPE OF FACILITY</p>	<p>The construction, demolition and inerts (CDI) facility will accept comingled and source separated CDI material. Some source separated material may be stockpiled for direct shipment to a recycler. The remaining source separated material and all of the comingled material will be transported off-site to the K&M Recycle America Ramona Ave. facility (34-AA-0191), or similarly permitted facility. In the future, comingled material may be sorted at the facility prior to shipment off-site</p>
<p>FACILITY CAPACITY</p>	<p>Peak Loading: 500 tons per day Average Loading: 50-150 tons per day Maximum Annual Loading: 179,500 tons (500 tpd @ 359 operating days per year)</p>
<p>EXPECTED DIVERSION RATE</p>	<p>The agreement the County has with the CDI operator requires a minimum of 50 percent diversion. The actual anticipated diversion rate is anticipated to be approximately 75 percent.</p>
<p>LOCATION</p>	<p>The CDI facility is located on a portion of the Yolo County Central Landfill, 44090 County Road 28H, Woodland, CA 95776</p>
<p>PARTICIPATING JURISDICTIONS</p>	<p>Unincorporated Yolo County, as well as the cities of Davis, Woodland, West Sacramento, and Winters will contribute material to the facility</p>

Project Descriptions

Landfill-Based Anaerobic Digestion Compost Pilot Project (AD project)

The AD project encompasses aspects of both the expanded composting alternatives and bioreactor operation addressed in the Subsequent Environmental Impact Report (SEIR) as is being funded through a grant from the CIWMB. This demonstration project is being built on top of an existing, composite-lined Waste Management Unit (WMU). A soil or geosynthetic-lined cell will be constructed and loaded with organic material. Water will be added and recirculated to adjust the moisture content and optimize the digestion of the material and production of methane and carbon dioxide. The methane and carbon dioxide will be collected to generate electricity at the on-site facility. After the digestion is complete, the cell contents will be excavated, cured, and used as compost. Although the project will be constructed on a composite-lined WMU, this is not a waste disposal technology. It is designed to convert clean, source-separated organic materials into to electricity and compost. By placing the digester on top of an existing WMU to utilize the existing waste containment, and leachate and gas collection systems, the potential for environmental impacts as well as capital costs are reduced, making the project more cost effective.

The anaerobic digestion cell is being built with the approximate dimensions of 100-foot-long by 200-foot-wide by 20-foot-high with a liquid collection system installed prior to green waste placement. The gas recovery system and leachate recirculation system will be also installed during the filling process which is expected to take 4 to 6 months. Once the cell is filled with clean, ground, source-separated green waste, the cell will be capped; water added, collected and re-circulated; and gases collected and piped to the on-site power generation facility. At the end of the process, the cell contents will be aerated, excavated, and cured for use as compost.

Approval of the AD project was received from the LEA on May 18, 2007.

Construction, Demolition, and Inerts (CDI) Facility

As part of this permit revision, the County is proposing to create a CDI diversion facility to target the mixed construction and demolition (C&D) materials received at the landfill. Mixed C&D material will be inspected at the scalehouse and then diverted to an area within the existing GWF which is operated by Waste Management Recycle America (WMRA) and will also be the operator of the CDI facility. Once the material is received at the facility, it will be inspected to ensure that the load contains primarily recyclable C&D components and that no hazardous waste is present. The material would then be dumped on an all-weather tipping pad created from asphalt and concrete rubble. The

material would then be loaded into a semi-truck and transferred to the Ramona Avenue large volume CDI processing facility in Sacramento (SWIS # 34-AA-0191). The material will then be processed with the recovered material being recycled and the residual being returned to the YCCL for disposal. Source separated loads of C&D (such as wood, cardboard, metal, etc) may also be accepted at the facility. Similar type material will be stockpiled at the facility until sufficient quantities were present to direct haul the material to a recycling vendor. In no case would the material be stockpiled for longer than 180 days.

As of the date of preparation of this JTD, the County has not officially entered into an agreement for the CDI facility and as such has not received a specific operating plan from the contractor. Because of this, the operational description included in this section is more general in nature. The operation will, however, be sufficiently similar that a revision of the JTD will not be required. Once the County enters into an agreement with the contractor, the contractor will submit a specific operating plan to the LEA for review and comment.

The CDI facility will accept all of the C&D material currently accepted at the YCCL, which averages approximately 50 to 150 tons per day (tpd), however it will be designed to accommodate up to 500 tpd to allow for future growth. At their off-site facility, the contractor will separate, process and market the following materials: concrete, asphalt, wood, metal, yard debris, gypsum, carpet padding, corrugated cardboard, mixed inerts. As part of the agreement with the County, the contractor will provide a guaranteed diversion rate of 50% with contract penalties for diversion rates less than 50%.