



Case Study: Village of Melrose



Custom Built Cardboard Collection Trailer

also collected in trailers at the convenience center, which is next door to the fire department and on occasion at the local school. In 2008, Melrose recycled 6.68 tons of cardboard, 16.9 tons of appliances and .92 tons of electronic scrap.

End-Market: All materials are transported by the village to Ed's Recycling in Clovis. Melrose receives payment for the materials. The cardboard is transported in a compactor truck.



4 Cubic Yard Cardboard Bin

The Village of Melrose is home to more than 700 residents in Curry County. Mayor Lance Pyle has worked with the state's Recycling and Illegal Dumping grant program and Keep New Mexico Beautiful to bring recycling to the village. In 2007, the RAID grant provided funding for the purchase of recycling collection dumpsters and trailers to launch their program. The local transfer station also collects recycling.

Recycled Materials: Cardboard, appliances, metals, aluminum and electronic waste are all received at the transfer station. The fire department collects aluminum. Cardboard is

also collected at the convenience center, which is next door to the fire department and on occasion at the local school. In 2008, Melrose recycled 6.68 tons of cardboard, 16.9 tons of appliances and .92 tons of electronic scrap.

Education: Signs on the trailers and word of mouth are the primary means to inform residents about the recycling opportunities. Citizen participation has been strong.



Case Study: NCSWA

The North Central Solid Waste Authority (NCSWA) provides solid waste and recycling services for the city of Espanola as well as Rio Arriba County. They offer recycling at convenience stations in Alcade, El Rito, Coyote, Abiquiu, Espanola and Canada de Los Angeles. This article highlights the Abiquiu El Prado Convenience Station, completed in 2007.



Collection Bins

Recycled Materials: Cardboard, Mixed Paper, Plastic Bottles #1 & #2, Aluminum Cans, Metal Food Containers, Scrap Metal, Tires and Motor Oil and Antifreeze. A 30 Cubic Yard gabletop divided roll-off accepts mixed recyclables of mixed paper, plastics #1&2, cardboard, aluminum and steel cans. Glass and tires have their own dumpster containers. A small shed is provided to store the motor oil and anti-freeze in 55-gallon drum containers. An open-top roll-off collects the scrap metal. There are no additional fees to recycle any of these materials.

Getting Clean Material: The station attendant at the Abiquiu El Prado Convenience Station works with the 10-20 daily residents to ensure that the recycled material goes where it belongs, is properly sorted and no contaminants enter the stream.

Hauling: NCSWA sends a replacement roll-off or dumpster when a recycling container is full. The material is then hauled to the La Loma Transfer Station. The mixed recyclables and the glass are then transported to Santa Fe's Buckman Road Recycling and Transfer Station to be sorted, baled and marketed. The scrap metal is handled by Gallegos Scrap in Espanola or Capital Scrap in Santa Fe, the motor oil and antifreeze is collected by Thermo Fluids and the tires are baled at the Alcade or La Loma Transfer Stations.

Education and Outreach: Education includes a newsletter to residents, signs at the transfer stations and training by the transfer station attendants.

Contact information: Lawrence Lucero, Transfer Station Foreman, 505-747-8459.



Case Study: EVSWA

The Estancia Valley Solid Waste Authority (EVSWA) serves the communities in Torrance County including Moriarty, Estancia, Willard, McIntosh, Mountainair, Duran, Tajique, Cedarvale, Wagonwheel, Punta de Agua, Encino, a portion of Edgewood, and all points in between. The EVSWA is funded by customer quarterly fees for each resident in Torrance County. EVSWA hosts 9 manned transfer stations and a couple of areas with 6-yard dumpsters. Recycling opportunities are available at all of the transfer stations.

Recycled Materials: Motor Oil (includes some kerosene, diesel fuel, hydraulic and transmission fluid), Antifreeze, Lead-Acid Vehicle Batteries, Tires, Scrap Metals & Appliances (except vehicles), Aluminum Cans, and Branches/Yard Waste (only accepted at the Moriarty station).

Motor Oil & Other Fluids: Residents must bring in a 5-gallon bucket or smaller. EVSWA has a 500-gallon tank at the Moriarty station that Mesa Oil collects on an average of twice a month. EVSWA receives a payment for the oil. The antifreeze has a separate 50-gallon drum that Mesa Oil collects as well. At the time of drop-off the transfer station attendants set aside questionable fluids for Mesa to test at pick-up time.

Lead-Acid Batteries: EVSWA hauls all batteries to Estancia and then containerizes them. They store the batteries in plastic-lined freezers until pick-up. EVSWA works with a resident who hauls and then sells to NM battery recyclers. That person brings a receipt to confirm that the batteries were properly recycled.

Aluminum Cans: EVSWA donates cans to youth groups from the area. The cans are hauled from outlying stations to the receiving station in Moriarty where the youth crush and bag them. See Local Partnerships sidebar for more information.

Scrap Metal: EVSWA hauls scrap metal to the landfill for storage. Ed's Recycling based in Clovis travels to Estancia to provide their metal baling service every 4-6 months. Estancia receives a payment for the material.

Hauling: An EVSWA standard pick-up truck with a cargo net goes to the transfer stations at least every other week, to gather collected recyclables.

Education and Outreach: EVSWA provides a handout to all new customers as part of their initial setup and to anyone else coming into a station who has questions about hours, locations, what each station will or will not accept, fees if any, and types of containers to be used when required.

Local Partnerships

As a benefit to the community, EVSWA solicits applications from local youth groups to benefit from the sale of the aluminum cans. In exchange the youth group, crushes, prepares and then uses the trailer to haul to a metal recycler in Albuquerque. The group gets to keep the earnings.

EVSWA Partnerships:

- ROTC Team from Moriarty (raised funds for the Tsunami and Hurricane victims)
- Boy Scout troop (raised funds for a homeless family)
- Catholic Youth group in Mountainair
- Little League Team (used money for uniforms)
- TOPS (Teen Outreach Program used funds to pay for their after-school snack program).



Case Study: Santa Ana Pueblo

The Pueblo of Santa Ana is home to approximately 725 residents and is located roughly 20 miles north of Albuquerque. The Pueblo's Department of Natural Resources is in the process of developing a Resource Recovery and Recycling Park at the existing solid waste transfer station. This will enable community members to drop off recyclable or re-usable items and divert these items away from typical landfilling. The Resource Recovery and Recycling Park is being funded through the State of New Mexico's RAID grant program and should be complete in the summer of 2009.

The Pueblo has recently established a composting program using biosolids from the Utility Department's waste water treatment plant and wood chips from bosque restoration sites. The composted material will be used on the Pueblo's agricultural fields, community gardens, as potting material at the native plant nursery and if quantities are sufficient, it will be sold at the Santa Ana Garden Center.

Recycled Materials: Paper and cardboard from the Pueblo's governmental complex, Santa Ana Star Casino and Hyatt Tamaya hotel; aluminum cans from the governmental complex; food waste from the hotel is composted in the south valley; brush, branches, leaves, weeds, and old lumber from the community are collected in the yard waste area near the transfer station. Biosolids from the waste water treatment plant are composted on site near the transfer station. Electronics are collected once a year and brought to Albuquerque's collection or drop off stations. Used motor oil and anti-freeze are collected at the maintenance department and picked up by Thermo Fluids for resale as bunker fuel or recycled and refined into new products pending market conditions. Rechargeable batteries and cell phones are collected at the governmental complex using the RBRC free collection program.

Expected Expansion: Appliances, scrap metal, tires, cardboard, plastics, aluminum cans and glass will be recycled at the Resource Park from the community. Recycling trailers will be purchased to collect cardboard, aluminum, and plastics. The Pueblo will also create a "Swap Shop" for residents to place re-usable items that can be traded. A wood chipper will be purchased to chip up the brush, branches and old lumber to be used in the composting process or made into mulch for use at the garden center or native plant nursery.



Hauling: Currently the cardboard is taken to the casino and baled, then picked up by Master Fibers. Paper is either taken to the hotel for recycling through Waste Management or composted in the biosolids composting project. Food waste from the hotel is picked up by Soilutions and taken to their composting facility in the south valley.

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