"E-rase your E-waste" Collection Event

ARS & LEPC Community Event Sidney, Montana

FINAL REPORT

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I. BACKGROUND

The USDA/ARS/NPARL Safety Occupational Health Specialist and Technical Information Specialist developed a proposal for the "E-rase your E-waste" community event to be held in Sidney MT and presented it to the Richland County Local Emergency Planning Committee (LEPC). LEPC members expressed plenty of interest and agreed to help with preparations for the event.

This was the first computer and electronic components recycling collection event held in Richland County, and one of only a very few conducted in the state. *Our goal was to collect outdated computer and other electronic equipment for recycling from local businesses and community residents, thereby keeping them and their associated toxins out of the local landfill.* This report contains a summary of event planning activities and outcomes.

II. SUMMARY

Event Partners

The following organizations and agencies partnered and assisted the ARS safety specialist and information specialist to plan, promote and conduct the collection event:

City of Sidney

• Solid Waste Management Division

Richland County

- County Commissioners
- LEPC Local Emergency Planning Committee
- DES Local Disaster Emergency Service Coordinator
- RSVP Retired Seniors Volunteer Program
- CERT Community Emergency Response Team

Montana Department of Environmental Quality

- Solid Waste Division
- Recycling & Marketing Division of MT DEQ

Tammera Crone – Galllatin Local Water Quality District of Bozeman

The planning committee met four times and had numerous communications via email. The ARS, RSVP and CERT members contributed considerable staff time. They served a critical role in the success of event. The CERT, RSVP and ARS staff members were invaluable in assisting with publicity and for the collection event itself. Additionally, several members of the event planning committee provided volunteer and in-kind services.

Collection Event Focus Area

The event targeted residents and local businesses in Richland County, although it was also open to surrounding Montana and North Dakota counties. While outreach and publicity efforts focused on the Richland County area, media coverage reached a broader audience, with a couple of participants in the event coming from as far away as Roosevelt County (Froid MT) and Williams county ND (Williston, ND) after hearing about the event on television and radio.

Please note, that while Richland County was targeted for the collection effort, the program itself had a much broader impact in that organizers provided materials and

information to officials in surrounding communities to aid them in setting up their own collection events. (See "Conclusion," for more details.)

Hauler/Recycler Contractor

We followed EPA's Guidelines and used the Federal Electronic Challenge's on-site electronic waste management audit information in the *Recycler Selection Criteria* to ensure selection of a reputable contractor that followed environmental guidelines. It was important that the ultimate destination for the computer equipment remain within the U.S. and only 1.5% of inert products from electronic equipment would go to landfill. These concerns were echoed by many of the individuals and businesses who would call to inquire about the event and the final destination of the materials. We selected Tatooine Electronic Systems, Inc. of Cheyenne, WY as our hauler/recycler contractor for the event. Tatooine assumed full responsibility for transportation of all the computer/electronic equipment collected. In Cheyenne, WY, they then demanufacturer all electronic devices to be then sent to appropriate recyclers and hazardous waste facilities.

To further ensure that the e-cycler selected for the event met the guidelines desired by local organizers, they conducted an on-site inspection of Tatooine's facilities May 25, 2005. Also participating in that inspection effort were representatives from MT DEQ and ARS office in Cheyenne, WY.

Publicity and Outreach

Publicity for the event began in March 2005. The following venues for outreach were

- a) Information on the event was distributed to and run in all local newspapers.
- b) Posters on the program were developed by ARS, and placed at local businesses. Electronic versions were also included on the ARS web page, the Safety ARS Web page and the MT DEQ recycling web page.
- c) Brochures containing information on hazardous materials found in computers, impacts to resources, recycling options, benefits of computer recycling, and tips for donating computers were developed by ARS and distributed by event partners. An electronic version was also placed on the ARS and other websites.
- d) Poster displays and educational brochures were placed at the ARS front desk area, and also provided for various conferences, meetings, etc. around the state. (See "Conclusion," for more details.)
- e) E-mail and listserve announcements about the event were distributed to all employees and MT LEPC Chairpersons.
- f) Two public informational meetings (with the chosen recycler present to answer any questions) were held in April of 2005.
- g) Public service announcements (PSAs) were placed on local radio and TV stations.
- h) Television coverage included a 5-minute, noon show, interview in which the ARS Safety Specialist discussed the upcoming event.
- i) On the first day of the actual event, a local television news reporter conducted an onsite interview that was broadcast on its Nightly news program Friday evening, June 24th. A follow-up report on tonnage, participant numbers, and the future of the event, was requested and aired on the nightly news program on Wednesday June 29, 2005.

Volunteer Recruitment

Volunteers and in-kind contributors were provided through several of the sponsoring agencies. Their participation was acknowledged and thanks extended through personalized letters from event organizers and through newspaper articles, and a letter to the editor sent to local newspapers.

III. EVENT EVALUATION, SURVEY AND STATISTICS

Overall comments from the public about the event were very positive. The level of participation and the volume of obsolete computer and other electronic equipment collected far exceeded our expectations. Detailed results from that survey are presented below. Table 1 itemizes event statistics including volunteers, participant numbers, and numbers of monitors, CPUs, printers, periphery and other equipment collected.

Evaluation and Survey

All feedback from the public at the event was positive. A total of 23 vehicles dropped off out-dated electronic equipment. People reported they were glad to see such a great community service and asked if this would become an annual event.

A short survey was prepared for the day of the event and we also obtained copies of the recycling certificates issued to each participant. A copy of a completed survey is listed below and copy of recycling certificates is available if needed. Surveys were completed for 23 participants excluding ARS.

The three basic questions asked and results from the survey include:

1) Are you a resident of Community:

Richland County: 21 Roosevelt County: 1 Williams Co of ND: 1

2) How many of the following did you bring today? (see Table 1 for totals)

*Scanner, modem, tape drive, laptop computer, fax machine, VCR, typewriter, printers, lab equipment

We used Tatooine Electronic Systems' recycling certificates to obtain these numbers since some participants had as much as a pickup truckload of items that made it difficult for them to list them easily.

Table 1 provides a quick overview of event statistics.

Table 1. Electronics & Computer Recycling Collection Event Statistics for June 24 and 25, 2005.

DESCRIPTION TOTAL #'s Collected

Volunteers: 7

Vehicles/Participants: 23

CPUs: 93 (includes 6 laptops)

Monitors: **73**Printers: **42**Fax machines: **6**Slide Projectors: **6**Electric Typewriters: **5**

TV: 4

Microwaves: 3
Copiers: 3
Scanners: 2
Old turntable: 1

VCR: 1

Gene sequencer: 1

Scales: 1

Total tonnage (excluding pallet/gaylord weights) 4.2 Tons

Pounds collected per capita (Richland Co. population census of 2000 = 9,667)* **0.87 lbs.**

*Source: <u>www.ceic.commerce.state.mt.us</u>

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3) How did you hear about today's event?

Community meeting: 3 Posters, flyers, etc. : 2

Radio: 3 Newspaper: 8

Flyer Email, Other*: 7
* Friend (word of mouth)

TOTAL = 23 participants (excluding ARS participation)

Statistics Summary

Total tonnage for equipment collected at both events was **4.2 tons**. *This collection* **event was a success with local business and community members and even a few residents from surrounding communities participating**. The population of Richland County according to census of 2000 totaled 9,667 (source: www.ceic.commerce.state.mt.us) for an estimated 1.15 pounds/capita of computer & electronic equipment collected.

IV. CONCLUSION & EXTENDED IMPACT

The event was successful and public participation and acknowledgement was positive. Event partner involvement was encouraging and helped to build a foundation for future collaborations.

The collection event kept 4.2 tons of electronic waste and, of equal or more importance, their toxins out of the local landfill. Using lead as an example, we collected more than 70 monitors, which can contain up to 6 pounds of lead each. By e-cycling those items, we diverted as much as 420 lbs of lead from our local landfill....even if you assume each monitor contained only half that amount, the total would still be impressive.

This collection was a great success and proves that individuals and local business can and are taking the initiative to prove their commitment to the environment and the safety of human health. Particularly impressive was the fact that individuals participated in the event even though there was a fee to do so, since no outside funding was used.

Participation in the "E-rase your E- Waste" program has helped the ARS, LEPC, RSVP and CERT and the City of Sidney identify environmentally responsible e-waste recyclers. We plan to use that knowledge and other information obtained from this event to help prepare future e-waste collections.

Extended Impact: An unexpected result of this local e-waste collection effort was the amount of interest it generated beyond the intended audience. For example, a newspaper story published in the local paper attracted the attention of officials at the Montana Department of Environmental Quality, which then offered support and advice for the effort, as well as promoting it as an example for communities statewide at several state and even national meetings, using a small display developed by Sidney organizers.

The article also attracted the interest of a local woman who requested copies of brochures to distribute at an upcoming Women's Voices of the Earth health conference in Bozeman, MT, that included participation from the Montana Nurses Association. That connection led to officials with a major hospital in Billings, MT (the state's largest city) to call and ask for information on setting up an e-waste recycling event of their own. That is currently ongoing.

Recognizing that they had hit a nerve, local organizers took on the task of documenting their steps in putting together the local "E-rase you E-waste" campaign and then providing that information and assorted publicity materials and templates to other interested parties. In particular, the MT DEQ asked to include those items on its website. The information was also placed on the websites of the local ARS laboratory in Sidney and the ARS Area office in Fort Collins, CO. Templates for posters, brochures and other promotional items were also supplied to waste officials in Williston, ND, who used them in their own e-waste outreach effort that culminated in the sign-ups of their local school district and hospital for e-cycling with Tatooine. Although not a community-wide event, the effort targeted major e-waste generators in that community.

One other indirect benefit to all of Montana is that the Sidney application to host its community-wide "E-rase your E-waste" event triggered a Solid Waste Program awareness of the need for a Programmatic Environmental Assessment for Household Hazardous Waste Collection Events, according to F. Patrick Crowley, Solid Waste Regulatory Program Manager for the Montana Department of Environmental Quality. Completing the EA will make it much easier on anyone seeking permission to conduct similar events in the future, he noted in a July 14th e-mail to Couture, adding. "This keeps these types of events quickly licensable while the DEQ stays in full compliance with the requirements of the Montana Environmental Policy Act (MEPA)."

Please see attached appendices for additional information and samples of publicity and promotional pieces and for pictures and comments regarding the "E-rase your E-waste" event and its organization.

PUBLICITY



PROMOTIONAL MATERIALS

Promotional materials were developed by ARS personnel for the event and included posters, brochures, press releases and other informational items. Templates of some of those materials (logo, posters, brochures) were made available to individuals in other communities after they expressed interest in staging events of their own. In addition ARS organizers put together a "tip sheet" outlining steps they took to set up their event and made it available to all interested parties as well.



- when selecting an e-cycler you should consider the following:

 Does the electronic recycler have a licensed facility in your state or a state near you?

 Check to ensure the e-cycler doesn't permit exportation of hazardous materials or e-waste tworld countries, or use other unapproved and/or unprotected workers such as prison labor, the hazardo is unethical and obviously doesn't solve the problem.

 Check to see that the e-cycler has insurance in case there is accidental damage done to the environment.

- Check to see if the e-cycler has any references available
- Check to see if the e-cycler provides safety training for its employees and has a medical surveillance program.

- Does your e-cycler provide certificates indicating proper disposal of their items for its customers? Does your o-cycler provide a traveling or other type of scale or do you need to find a site with one?

 Does hour o-cycler provide a traveling or other type of scale or do you need to find a site with one?

 Does the scale to be used meet your state's regulations? (In Montana, scales are

 Department of Agriculture.)
- And, of course, what does it cost? What is included in addition to the recycling? (transportation, etc.) Does your e-cycler provide special rates for community even

2. Getting additional help / support for your event

- Contact local agencies working with safety and solid waste, examples may inclu Planning Committees. Community volunteer groups and civic organizations ma
- with your program.

 Contact local government afficials to get their support, including city and county landfill operators, county sanitarian, public works director, public health official Contact the Montana Department of Environmental Quality, or your state's wear have a Recycling Program Director that can help guide you. They will be able to regulations pertain to your work and whother you need a permit







rase your -waste!

Hosting your own e-cycling event

being coordinated by USDA-ARS-NPARL, Richland County LEPC and the local RSVP and CERT programs as a community service. To encourage other communities, communities, organizations and individuals to consider sponsoring their own e-cycling event, USDA-ARS-NPARL is making free samples of its "E-rase Your E-waste" promotional materials available to all interested parties. The materials are

For more information, contact NPARL Safety Officer Jackie Couture at 406-433-9422 or jcouture@sidney.ars.usda.gov





Information on a community-wide "e-cycling" opportunity for area businesses and individuals!

Sample pages of brochure (above) and corresponding template (below).



C-vent details

Which day should I bring it?

What will it cost?*

USDA-ARS Northern Plains Ag Research Lab Parking Lot • 1500 N. Central • Sidney, MT

Friday, 8 a.m. - 6 p.m Saturday, 8 a.m. - 3 p.m.

Our @-cycler:

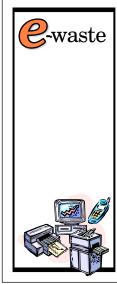
Tatooine Electronic Systems, Inc. Cheyenne, WY

Cost:

40 cents per pound on all eligible items

Questions:

Contact Jackie Couture at 406-433-9422









PHOTOS FROM "E-RASE YOUR E-WASTE"



Our first participant.



CERT volunteers helped e-waste participants.



Piling up!





PHOTOS - E-CYCLER INSPECTION TOUR





Above left, Tatooine employee dismantling computer e-waste. Above, Typical day's collection of e-waste at Tatooine.

ARS rep views plastics and gaylord recycling piles.

SAMPLE COMMENTS

"So nice to connect with you! I've just took a quick glance at the materials and they look good. We are so impressed with what you've already accomplished! This could be a inspiring model for small towns across MT. With your permission, we'd like to put the brochure up on our DEQ website. It could help increase awareness and support of your project. Let me know what you think."

Loni Hanka, Recycling and Market Development Specialist, Montana DEQ

"I wanted to let you know, all the brochures and two plastics folders were taken at the Waste Not Conference. (It was very popular!)

Loni Hanka

"Thanks for the email....good stuff." *Iver Johnson, Montana DEQ*

I received your email and I am so impressed with the information you sent! You have put together an excellent package of resources, which I will be forwarding to my manager. We have already discussed how beneficial (and fun) it would be to have Saint Vincent Healthcare sponsor a community event of "e-rase your e-waste"! Thank you very much for sharing this with us....!

Information Services, St. Vincent Healthcare, Billings, MT

"Great promotional materials and audit information. Thanks for sharing them!

Kim Holmes, Resource Recycling, Inc., Portland, OR