

CITY OF TUCSON ENVIRONMENTAL SERVICES

Recycling Education Outreach Programs

Status Report for the 2012-2013 School Year



Submitted to:

City of Tucson
Environmental Services
4004 S. Park Ave., Building 1
P.O. Box 27210
Tucson, Arizona 85726-7210

Submitted by:

Environmental Education Exchange
738 N. 5th Ave., Suite 100
Tucson, Arizona 85705
(520) 670-1442
(520) 670-1443 Fax
www.eeexchange.org

May 2013

Table of Contents

I. Program Overview.....	page 3
II. Elementary Education Outreach - <i>Too Good to Throw Away!</i>	page 3
Program Highlights.....	page 4
Overview of Program Revisions.....	page 5
The Scheduling Website.....	page 5
Teacher Evaluations.....	page 6
Suggestions for the Future.....	page 10
III. <i>Do More Blue, Meet the Truck Crew</i>	page 10
IV. Classroom Presenters.....	page 11
V. What Teachers Have To Say.....	page 13
VI. What Students Have To Say.....	page 14
VII. <i>Talking Trash in Tucson: A Middle School Curriculum</i>	page 14
VIII. <i>Look What's New with Do More Blue</i> poster contest.....	page 16

Appendices

Appendix A: Summary Report: 2012-2013.....	page 17
Appendix B: Summary Report: Autumn 2012.....	page 19
Appendix C: Summary Report: Spring 2013.....	page 22
Appendix D: <i>Too Good to Throw Away!</i> Participating Schools 2012-2013.....	page 25
Appendix E: <i>Do More Blue, Meet the Truck Crew</i> 2012-2013.....	page 30
Appendix F: Special Events 2012-2013.....	page 31
Appendix G: <i>Look What's New with Do More Blue</i> Poster Contest.....	page 32



I. Program Overview

During the City of Tucson's fiscal year 2012-2013, the Environmental Education Exchange once again conducted outreach education programs for City of Tucson Environmental Services. Classroom presentations continued to be offered to elementary school students and a middle school curriculum continued to be available on-line. A new middle school recycling poster contest was introduced, as well as an elementary after school program including a recycling truck. This year's annual report provides an overview of the Exchange's activity for that period with details on the audiences reached and recommendations for future program outreach.

II. Elementary Education Outreach Program – *Too Good to Throw Away!*

During 2012-2013 the Exchange provided recycling education outreach programs for the City's Environmental Services for the eleventh consecutive year.



In 2012-2013, there were 170 presentations reaching 4,379 students in 57 different schools from 4 school districts, as well as 6 charter schools and 3 private schools. The number of programs this year was significantly less than in 2011-2012, because the total number allotted was decreased (to 200 originally), and 1st-2nd grade was completely cut. (In 2011-2012, there were 400 presentations to 9,928 students in 80 different schools from six school districts, as well as four charter schools, one private school, one independent school and one community program).

In spring 2013, it was decided to schedule a total of 170 presentations for the year instead of 200; the budget for the remaining 30 presentations not scheduled will be used to update the classroom presentation and related activities for grades 1-2 for next year. There was a waiting list for additional presentations for 3rd-5th grade teachers, in addition to a request list from many 1st and 2nd grade teachers.

Approximately 41% of the presentations were given to 3rd grade classes (up from 25%), 30% to 4th grade (up from 16%), 21% to 5th grade (up from 9%), and 8% to other (multiage) (same percentage as last year). However, it is difficult to compare the percentages from last year to this year because the total number of presentations was so much less, and because 1st and 2nd grade were no longer included. Third grade presentations continue to be most common, but this probably reflects the fact that 3rd grade (especially in TUSD, SUSD and FW, because of their curriculum) is the most common grade level for the *Da Drops* program (managed by EEExchange for Tucson Water). Refer to [Appendices A-D](#) for full details on school districts, schools, and total numbers of students participating in the program.

Presenters attended 1 special event in 2012-2013 with the *Too Good to Throw Away!* kit. At the Girls Scouts Take Action MLK Event at Reid Park on January 21, 2013, a presenter interacted with interested attendees, kit materials were displayed, and the new *Look What's New With Do More Blue* middle school poster contest was advertised. Refer to [Appendix F](#) for details.



Curriculum activities for *Too Good to Throw Away!* continue to be downloaded from the website, even during the summer when no programs occur. The complete set of revised activities for grades 3-5 were downloaded 262 times during the 2012-2013 school year (September 1, 2012-May 23, 2013), with individual sections downloaded between 155 and 267 times. In addition, some teachers continue to download the old versions of the pre/post-visit materials for *Too Good to Throw Away!* for grades 3-5. Although both the scheduling website and

the Environmental Services website have posted the revised files, some teachers are still downloading the older files probably found in cached older versions on-line. The complete set of older activities was downloaded 83 times, with individual sections downloaded between 42 and 1217 times. Refer to [Appendix A](#) for details.

The number of downloads far exceeds the number of *Too Good to Throw Away!* presentations, suggesting that there are teachers interested in the lessons without having classroom presentations. In addition, it is likely that we are reaching teachers beyond the Tucson area via these on-line curriculum activities. Refer to [Appendix A](#) for details.

Although *Too Good to Throw Away!* presentations are no longer offered to 1st-2nd grade classes, teachers continue to download the files. The complete file was downloaded 257 times, with individual sections downloaded between 233 to 965 times. During the second week of November 2012, these files were removed from the Environmental Services website, although they are still available on the scheduling website, with an explanation that they have not been revised to reflect the increased types of plastics we can recycle in Tucson with the opening of the new MRF. Refer to [Appendix A](#) for details.

Program Highlights

- The *Too Good to Throw Away!* classroom presentation and pre/post-visit activities were revised for 3rd-5th grade, while the 1st-2nd grade program was cut
- Continued streamlined approach to outreach scheduling with enhancements made to the online scheduling website
- Continued use of PDF files (located at the scheduling website) to provide materials dissemination to teachers
- Evaluations continue to be completed by teachers on-line
- Presenter training, observation and feedback
- Outreach to new schools not visited in past years



- Two *Too Good to Throw Away!* kits were in use throughout the year so that two sets of presentations can be scheduled in one day
- Students received pencils (made from recycled paper), as well *Look What's New With More Blue* magnets. Each teacher also received a reusable grocery bag made from plastic bottles, as well as a mini-blue barrel pencil holder (from ReCommunity). In addition, until late-November, each teacher received a *Look What's New With Do More Blue* poster.

Overview of Program Revisions

The *Too Good to Throw Away!* program for 3rd-5th grade was revised during the summer 2012; the 1st-2nd grade program was canceled for the 2012-2013 school year so no revisions were made .



Revisions to the 3rd-5th grade pre/post-visit activities and the presentation reflect changes as to what can be recycled in the City of Tucson with the opening of the new MRF operated by ReCommunity. The presentation is now one hour long (instead of 45-minutes) and has even more hands-on and interactive activities. In addition, the presentation better explains what natural resources are, how they are made into products, and how products are recycled. Paper, glass, metal and plastic products are represented by “characters” whose faces were designed by Advanced Graphic Design students at Cholla High School; these “characters” are now a part of both the classroom presentation and the pre/post-visit

activities. In addition, the activities were revised to be more user-friendly, the ADE academic standards were updated, and a vocabulary section was added. The on-line evaluation was also revised to reflect the program changes.

Look What's New With Do More Blue magnets were included with the student give-aways this year, instead of flyers that were given away last year. Students continued to receive pencils made from recycled paper this year. Each teacher also received a *Look What's New With Do More Blue* posters until late-November, when the supply ran out. Each teacher also received a reusable shopping bag made from recycled plastic bottles, as well as a mini-blue barrel pencil holder (from ReCommunity).

The on-line game, *You Do the Blue*, was revised to reflect changes as to what can be recycled in the City of Tucson with the opening of the new MRF operated by ReCommunity. These changes not only also allow users of the game to learn about the changes, but also allow for the continued use of the give-away pencils, which are imprinted with the URL for the game.

Worn props were replaced as needed throughout the year.

The Scheduling Website

The scheduling website originally came on-line in mid-September 2003 and was revised in August, 2006 (www.outreach-scheduling.org). It continues to be extremely beneficial to teachers, the Outreach Education Coordinator and classroom presenters in a variety of ways:

- The scheduling website continues to allow teachers and the Outreach Education Coordinator to easily schedule outreach presentations.
- During the 2012-2013 school year, 68% of *Too Good to Throw Away!* presentations were scheduled by teachers using the website. This not only includes when all presentations for specific dates are scheduled on-line (17%), but also includes when one teacher schedules him/herself and writes an on-line note that other teachers at his/her school should be scheduled as well (51%). These teachers scheduled at their convenience, without having to reach the Outreach Education Coordinator by phone or email. The remaining presentations were scheduled primarily by teachers contacting the Outreach Education Coordinator via email (27%) and occasionally by telephone (5%). The Coordinator then enters the information onto the scheduling website. (After initial telephone conversations, schedules are finalized using email.)
- Teachers can download the complete set of curriculum activities for each program, or individual sections. It is extremely rare (no requests at all this year) that a teacher requests a copy sent by mail (thus eliminating hundreds of photocopies and mailings each year).
- The Outreach Education Coordinator can easily schedule presentations using the website, and keep track of all presentations for the entire school year. The website continues to offer easy access while out of the office. The database of classroom teachers in the Tucson area can be used to contact teachers for presentation reminders, program and workshop announcements, and updated activities.
- The pdf download counter continues to provide information about the number of downloads for the various curricula available on-line. Refer to [Appendix A](#) for details.
- Presenters continue to obtain their schedules from the website, thus eliminating numerous photocopies of presentation details each month. Directions to schools and roundtrip mileage are also included, as well as a direct link to Google maps.



Teacher Evaluations

After a presentation is completed, a teacher receives a thank you note via email that contains a link to an on-line evaluation form. The site indicates when that form has been completed, so that the Outreach Education Coordinator can review it. Lots of paper and postage is saved using the on-line method. The on-line site not only stores all of the valuable data, but it also does statistical analysis of the information. If a teacher does not have an email address, he/she can still receive a paper evaluation form. In this extremely rare case, the Coordinator can enter the data herself. The evaluation form was slightly modified this year to account for the revisions in the *Too Good to Throw Away!* program. In addition, the questions regarding completion of the pre/post-visit activities were modified to ask specifically about each activity.



Evaluations were returned by 66 (39%) participating teachers (compared to 44% last year, but keep in mind that there were half the number of teachers this year). Data were collected from September 1, 2012 through May 23, 2013.

Completed teacher evaluations showed a continued strong satisfaction with the *Too Good to Throw Away!* program. The average ratings based on 15 areas questioned about the on-site programs were 76% excellent, 19% good, 1% fair, .4% poor and 4% not answered. The following areas

received at least 80% excellent ratings: blue barrel, earth ball, recyclable./recycled products and other props; posters and laminated cards; effectiveness of presenter in conveying information; teaching which items can be recycled in the City of Tucson; being appropriate for your grade level students; and being easy to schedule. All other areas of the on-site program received 63-78% excellent ratings. All areas of the on-site program received 85-98% excellent and good ratings combined.

The RecyCool game received the lowest ratings of the on-site program, with 64% excellent, 23% good, and 11% not applicable. It's unclear why so many "not applicables" were selected, especially because many teachers tell presenters how much they enjoy the game. It's possible the teacher was not in the room for the game, but it's also possible that "not applicable" was accidentally recorded (if a teacher meant to select a different option, but didn't click carefully enough, the default is "not applicable".)

Of the teachers who completed the evaluation, 50% teach 3rd grade, 24% 4th grade, 20% 5th grade, and 6% other (multiage). When asked if their students' understanding of recycling improved by participating in the *Too Good to Throw Away!* program, 100% of the teachers responded yes and 0% responded no. Teachers overwhelmingly responded yes (99%) when asked if they would be interested in participating in the program next year.



Of the teachers who used the pre/post-visit activities, the majority rated the materials as excellent or good. However, not all of the teachers completing the evaluation used the materials, thus causing the level of satisfaction on the evaluation form to appear lower than it actually is. Some of these teachers selected NA when completing the evaluation form, but others just left those questions blank.

Of the teachers who completed the evaluation, approximately 33% used Activity #1 (*Carlo's Day at the Landfill*), 36% used Activity #2 (*Recycling Scavenger Hunt*), and 27% used Activity #3 (*What a Load of Garbage!*). Of the teachers who completed the evaluation, 12-17% did not reply when asked about completing Activity #1, #2 or #3, as compared to 44% last year who indicated that they did not complete the activities. Fifty-nine percent of teachers indicated they would complete additional

lessons at a later date. The predominant reason for not completing pre/post-visit lessons is related to time constraints.

Two teachers indicated that they were not aware of pre/post-visit materials. Although all teachers receive the link to download the materials in both confirmation and reminder emails, unfortunately some teachers do not read their email messages carefully. These teachers were re-sent the link as well as an attachment of the complete set of activities.

Teacher access to the Internet is high: 89% of teachers indicated they have Internet access to use the scheduling website (with 6% responding negatively and 5% not answering) and 89% to download materials online (with 3% responding negatively and 8% not answering). Every teacher who scheduled this year provided an email address.

The table below lists the questions asked in the evaluations and percentages of response for each category. Note that each category may not add up to 100% because some questions were not answered by some teachers. (This especially affects the results for questions related to the pre-visit activities, because some teachers did not complete the activities, and thus did not answer those questions.)

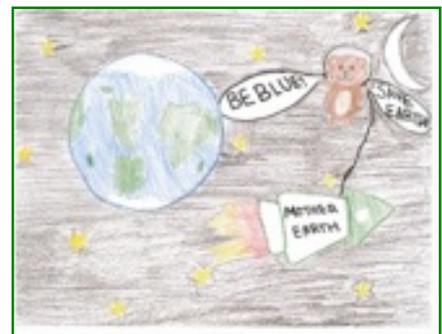
Too Good to Throw Away! - 65 Total Records Found	
	Excellent Good Fair Poor Not Applicable
Please give an overall rating for the following components of the ON-SITE program:	
Blue Barrel, earth ball, recyclable/recycled products and other props	80% (E) 18% (G) 2% (F) 2% (P) 2% (NA)
Posters and laminated cards	80% (E) 18% (G) 2% (F) 2% (P) 2% (NA)
RecyCOOL game	64% (E) 23% (G) 3% (F) 11% (P) 11% (NA)
Effectiveness of presenter in conveying information	80% (E) 15% (G) 2% (F) 2% (P) 2% (NA)
Presenter's ability to relate well with students	79% (E) 17% (G) 2% (F) 2% (P) 2% (NA)
Please rate the value of the ON-SITE program activities in:	
conveying that all things are made from natural resources.	77% (E) 20% (G) 2% (F) 2% (P) 2% (NA)

conveying the difference between renewable and non-renewable.	70% (E) 27% (G) 2% (F) 2% (P) 2% (NA)
teaching about reducing/reusing/recycling/rethinking.	77% (E) 18% (G) 2% (F) 2% (P) 5% (NA)
conveying the magnitude of our waste problem in the City of Tucson.	70% (E) 27% (G) 2% (F) 2% (P) 2% (NA)
teaching which items can be recycled in the City of Tucson.	82% (E) 15% (G) 2% (F) 2% (P) 3% (NA)
fitting into available classroom time.	79% (E) 18% (G) 2% (F) 2% (P) 3% (NA)
raising the interest and motivation of your students.	73% (E) 20% (G) 2% (F) 2% (P) 6% (NA)
being appropriate for your grade level students.	82% (E) 14% (G) 2% (F) 2% (P) 2% (NA)
being easy to schedule.	83% (E) 14% (G) 2% (F) 2% (P) 3% (NA)
addressing ADE academic standards.	67% (E) 18% (G) 2% (F) 2% (P) 15% (NA)
Please give an overall rating for the PRE- & POST-VISIT activities:	
Activity #1: Carlo's Day at the Landfill	30% (E) 12% (G) 2% (F) 2% (P) 58% (NA)
Activity #2: Recycling Scavenger Hunt	30% (E) 9% (G) 2% (F) 2% (P) 59% (NA)
Activity #3: What a Load of Garbage!	26% (E) 9% (G) 2% (F) 2% (P) 64% (NA)
Teacher Background Information	33% (E) 18% (G) 2% (F) 2% (P) 47% (NA)
Too Good to Throw Away! Vocabulary	38% (E) 20% (G) 2% (F) 2% (P) 42% (NA)
Please rate the value of the PRE- & POST-VISIT activities in...	
introducing recycling vocabulary.	35% (E) 21% (G) 2% (F) 2% (P) 44% (NA)
defining what can be recycled in the City of Tucson.	41% (E) 14% (G) 2% (F) 2% (P) 44% (NA)

introducing reduce/reuse/recycle/compost.	39% (E)	17% (G)	% (F)	% (P)	44% (NA)
integrating into your classroom's curriculum.	38% (E)	15% (G)	% (F)	% (P)	47% (NA)
fitting into available classroom time.	42% (E)	15% (G)	% (F)	% (P)	42% (NA)
raising the interest and motivation of your students.	45% (E)	12% (G)	% (F)	% (P)	42% (NA)
being appropriate for your grade level students.	45% (E)	11% (G)	% (F)	% (P)	44% (NA)
addressing ADE academic standards.	38% (E)	15% (G)	% (F)	% (P)	47% (NA)

Suggestions for the Future

- Revise the *Too Good to Throw Away!* program (both the classroom presentation and related pre/post-visit activities) for grades 1-2 to reflect changes related to the opening of the new Recommunity MRF, as well as to integrate more hands-on activities and update new ADE academic standards.
- Revise ADE academic standards for grades 3-5 after the new Next Generation Science Standards are adopted by the AZ Department of Education (the NGSS were released in April 2013).
- Continue to develop connections with additional schools not previously involved in the program.
- Encourage more teachers to do the pre- and post-visit activities. Be more specific in email messages and phone conversations about the activities and how to download them. Emphasize that the activities have been updated to reflect the new ADE academic standards.
- Replace worn props in kit.
- Continue to analyze the data from the PDF download counter.
- Encourage teachers to participate in Recycle-Bowl (<http://recycle-bowl.org>) and possibly other community events.



III. Do More Blue, Meet the Truck Crew

A new presentation for afterschool KIDCO programs, *Do More Blue, Meet the Truck Crew*, was developed for Environmental Services during the summer and early fall 2012. After a successful pilot of *Do More Blue, Meet the Truck Crew* (without a recycling truck) at El Rio Neighborhood Center on September 26, presenters began doing complete presentations (with a recycling truck and

drivers Rene or Mike). KIDCO coordinator Mele Ferreira helped schedule the sites and related activities; each KIDCO site did recycling activities on the Monday and Tuesday before their presentations on Wednesday. In addition, he created a rotation with related activities for students to do on presentation days.

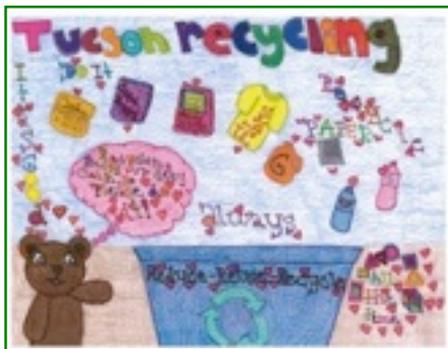
Each *Do More Blue, Meet the Truck Crew* presentation is 30 minutes long – 15 minutes of hands-on activities indoors, followed by 15 minutes outside learning about the truck. In order to fit in all of the presentations in an afternoon and minimize the amount of time the truck is needed (there could be up to 5 presentations), two presenters are needed per site visit, so that as soon as one presenter takes a group outside to the truck, the other presenter can start the next presentation indoors. The two-presenter team is also important, because during the first presentation, one presenter can begin the presentation while the other presenter can be outside to be sure that the truck arrives and parks in the right location. Torran Anderson and Noel Hensley were the primary presenters, with Debbie Gevirtzman filling in as needed.



In total, 11 sites were visited - 10 different KIDCO sites, as well as one Head Start program. (Note that one KIDCO site was visited twice, as it was used first for the pilot program without the truck). In summary, there were 44 presentations and 5,763 students reached. Refer to [Appendix E](#) for details.

IV. Classroom Presenters

Teacher evaluations indicated high satisfaction with classroom presenters. When asked about the effectiveness of the presenter in conveying information, 95% of teachers overwhelmingly gave a rating of excellent and good. When asked about the presenter's ability to relate well with students, 93% of the teachers gave a rating of excellent and good.



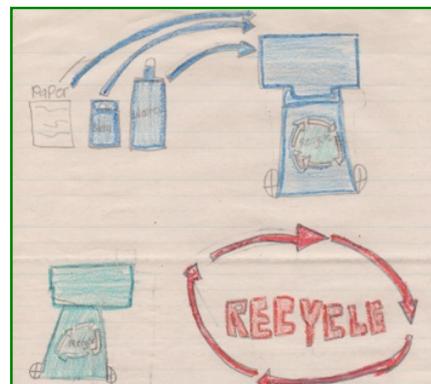
A 1.5-hour training to review revisions to scripts and kit materials for *Too Good to Throw Away!* was held on August 29, 2012. Presenters observed two presentations of each program before doing programs on their own.

Presenters attended a 3-hour training on August 30, 2013 to learn about the logistics of being a presenter, including discussions on the contents of the training notebook, pay and time sheets, transportation, kit storage and supplies, and the scheduling website, and classroom management. Presenters were asked to review the background materials and scripts included in their notebooks before attending the trainings on specific programs.

This year's presenters include:

Torran Anderson earned his B.A. in Liberal Studies from Northern Arizona University and his M.A. in Teacher Education from Goddard College. He has been in the field of education for over 20 years and worked with the Environmental Education Exchange as a presenter, as a program coordinator, and on presentation revisions. He writes leveled readers for Learning A-Z.

Lisa Brown received her B.A.-Magna Cum Laude in Liberal Studies from San Francisco State University. She did her postgraduate work in Education and received a Multiple Subject Clear Teaching Credential from San Francisco State University. Lisa taught elementary school for several years. She also has worked in the environmental field in a variety of positions: marketing, sales, interpretive naturalist, and as a volunteer political chair and lobbyist. Lisa recently obtained a Permaculture Design Certificate from the Sonoran Permaculture Guild. This was Lisa's fourth year as an outreach presenter.



Noel Hensley received her B.A. in Communication from Antioch College in Yellow Springs, Ohio. After five years of radio and video work, she returned to the classroom. After a long-term substitute position she pursued her teaching certification from Prescott College. This was Noel's fifth year as a presenter after teaching for eight years in public, private, and charter schools. Working with the Environmental Education Exchange has proved to be a great opportunity for Noel to be in the classroom with focused lessons on environmental conservation. Noel was hired by Pima for Kids at the end of 2012 and is no longer an outreach presenter.

Cassie Mason received a B.A. in Russian Area Studies with a minor in Biology from George Mason University and a Masters Degree in Russian Linguistics at the University of Arizona. Cassie spent a year abroad in Russia and lived in England for three years. Returning to the U.S. in 2001, she was a 4th-7th grade science teacher and curriculum director for 5 years at a private school in North Carolina. She coordinated a watershed education program for the Pacolet Area Conservancy. She



continued her career as a 5th grade teacher in Portland, Oregon for three years. She helped coordinate and chaperone a mission trip to Nicaragua in 2010. This was Cassie's first year presenting with the EEExchange and she is excited to engage with students about issues of environmental impact.

Brittany Orkney received her BA in Anthropology and Social Geography from the University of Arizona in 2008. Since graduating Brittany has worked as an interpretive river guide in Dinosaur National Monument, educating visitors on the area's natural history and the social significance of conservation. Desiring a more community based career, Brittany worked installing solar systems in the Tucson area. After two summers on roofs, Brittany began transitioning to the education and outreach component of conservation. She was thrilled to be working with the Exchange this year, educating students on the impacts of their actions and empowering them to make a difference.

Brian Stark is a distance runner and published author who received his B.S. in Communication from Hanover College, his teaching certification from Prescott College, and his M.Ed. in Administration from Northern Arizona University. Brian taught middle school language arts for seven years, was an interpreter and tour guide at Kartchner Caverns, and has been a crew leader for a local environmental outdoor youth corps. He has participated in multiple sessions with the Arizona Department of Education AIMS data review and curriculum alignment. While growing up, Brian spent 13 summers working at a rugged overnight summer camp in Indiana where he served as camp director. This was his second year presenting with the Environmental Education Exchange, but his first doing *Too Good to Throw Away!* presentations.

Debbie Gevirtzman has been the Outreach Education Coordinator at the Environmental Education Exchange for ten years, in addition to being an occasional classroom presenter. Debbie also assists in the design and development of classroom presentations, educational curricula, and training workshops. She received her B.A. in geology from the University of Pennsylvania, her M.S. in geology from the University of California at Davis, and her teaching certificate from the University of Arizona. She has taught science and math in Tucson for many years, primarily at the middle school level. Her classroom was one of the pilot classes using Tucson Water's middle school curriculum, the *Tucson Toolkit*. Debbie has also worked at the Arizona-Sonora Desert Museum as an earth sciences interpreter, and has developed and presented teacher and student workshops for the Southwest Environmental Health Sciences Center at the University of Arizona.

V. What Teachers Have To Say...

I really love how the lesson was changed to show where the materials come from and how they are made into what we use and then how they can be recycled. Soooooo much better than just saying they came from the earth. The presenter did a fabulous job with our classes and we want to tell you how much we enjoyed his lessons with recycling! :)

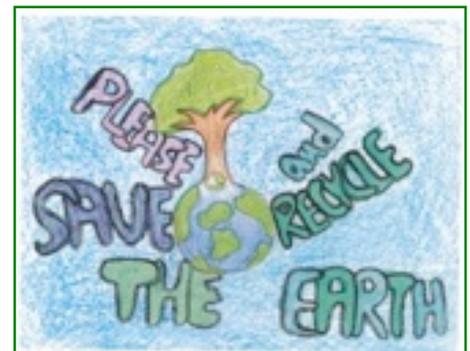
This was the best presentation. The presenter engaged the students and the curriculum scaffolds with SS and Science. Activities will be done with upcoming themes.

This was the best presentation ever.

The presenter did an excellent job of getting the students excited about recycling and adapting the material to fit them.

Just wanted to let you know that the presenter we had today was fabulous. I have seen this presentation two other times and she was by far the best I've seen. She had fun with the kids, was patient and really knew how to talk to them. Thanks so much for everything that you all do! The presenter was phenomenal and made learning fun and exciting to students and teacher.

The presenter we had this year was the best we've had. She really seemed to enjoy what she was doing and was so wonderful with the kids.



It was a great presentation – the presenter can totally relate to the kids and explain everything at their level. The pre-visit activities were an excellent preparation...We hope we can have you come again next year.

VI. What Students Have To Say...

Thank you for your recycling presentation. I think recycling is really great and you taught us lots of fun and cool ways to recycle, reuse, reduce, and rethink. Thanks to you I will now recycle whenever I can.



Thank you for coming to our class. I loved the recycling game, I even recycled this morning. I will really try to reduce, reuse and recycle to save...the earth.

Yesterday I already looked at the things we can recycle. I saw a cardboard box in the trash, don't worry I put it in the recycle bin. Yesterday when I got home I remembered everything that you

taught me and I told my mom about it. Now me and my mom are recycling.

Thank you for telling my class that any kind of plastic could go in the blue bin. But just not plastic bags. You did a great job. It's so cool to know that every single thing is made out of natural resources. It is also cool to know that glass is really made out of sand. Also that plastic is really made out of oil. It was interesting to know that metal is made out of rocks. What is so cool is that everything we have is from nature.

When you came, that night me and my mom went to the store. She needed eggs. She picked up the Styrofoam. I was like no! Don't pick that one.

I love to recycle at my house. I have a recycle bin in my room and use it.



Thank you for coming to our school. I learned new things from you. I learned that Styrofoam can't be recycled. I enjoyed you coming to our school and enjoyed sorting the materials. It was fun that I met Pete Plastic, Gabby Glass, Paige Paper and Mike Metal. It was really fun having you here, you are nice. I will teach others how to recycle.

VII. Talking Trash in Tucson: A Middle School Curriculum on Recycling

During the 2003-2004 year, the Environmental Education Exchange developed four lessons about solid waste management and recycling in Tucson to provide middle school students with an understanding of how the City of Tucson manages solid waste. As the Blue Barrel program continues to grow and expand in Tucson, City of Tucson's Environmental Services is very excited to get the word out, and to help students better understand the importance and need for recycling in our community. *Talking Trash in Tucson* was piloted by eight teachers during Spring, 2004. The

teachers' comments and suggestions were integrated into the lessons during Summer, 2004 and a table of the relevant ADE academic standards was added and the curriculum was formatted to resemble the *Too Good to Throw Away!* curriculum activities.

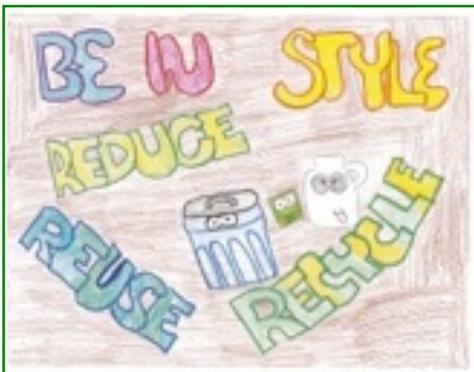


Talking Trash in Tucson became available online as downloadable pdfs in November, 2004. The ADE academic standards were updated Spring, 2007 and were posted on the scheduling website during the 2007-2008 school year.

Revisions to *Talking Trash in Tucson* were made during the summer 2012 to reflect changes as to what can be recycled in the City of Tucson with the opening of the new MRF operated by Re-Community. In addition, a new lesson was added to incorporate a middle school *Look What's New With Do More Blue* poster contest. The poster contest can be found both within Lesson 4 of *Talking Trash in Tucson* and as a separate downloadable file. Lessons 1-3 were revised to be more user-friendly, a vocabulary section was added for teachers, and ADE academic standards were updated.

The Outreach Education Coordinator used middle school websites to directly contact teachers and principals via email to notify them of the new curriculum. The Coordinator also contacted middle school teachers who have previously been interested in other Exchange programs/workshops. Some flyers were mailed to schools/teachers without email addresses.

Because *Talking Trash in Tucson* is completely available on-line, there is no way of knowing how many teachers are actually using the lessons in their classrooms. *Talking Trash in Tucson* is a part of *Energy and Environmental Science* (ESS), a 6th grade science unit available as a kit from the TUSD Regional Science Center. Thus, all 6th grade classes in TUSD currently use *Talking Trash in Tucson*; in addition, the curriculum might be used by the following schools who are partners with the Regional Science Center: FWUSD, Altar Valley, Our Mother of Sorrows Catholic School, Pima Partnership Academy, St. Ambrose Catholic School, and SS Peter and Paul Catholic School.



Using the PDF download counter, we can determine how often teachers are downloading the curriculum. The complete curriculum was downloaded 432 times during the 2012-2013 school, with individual sections downloaded between 193 and 1,872 times, so we know that many teachers are aware of these materials on-line. In addition, it is likely that we are reaching teachers beyond the Tucson area via these on-line curriculum activities. Refer to [Appendix A](#) for details.

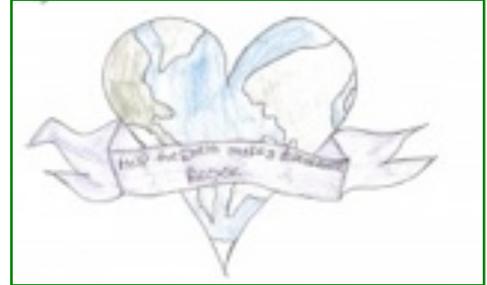
Suggestions for the Future

- Continue to contact middle school teachers to inform them about *Talking Trash in Tucson* and the *Look What's New With Do More Blue* poster contest. Emphasize that a variety of ADE academic standards are addressed by the different activities in the curriculum. Remind teachers that they can request a copy of the activities if they have difficulties downloading.

- Revise ADE academic standards after the new Next Generation Science Standards are adopted by the AZ Department of Education (the NGSS were released in April 2013).

VIII. *Look What's New with Do More Blue Poster Contest*

The *Look What's New With Do More Blue* middle school poster contest was created this year. The poster contest is part of a new lesson added to the on-line middle school curriculum *Talking Trash in Tucson*, but it is also available as a separate downloadable file. The complete *Talking Trash In Tucson* file was downloaded 345 times during 2012-2013, Lesson 4 (which includes the poster contest) 438 times, and the separate file for just the poster contest 628 times.



Both middle school science and art teachers were contacted via email to advertise the new poster contest. In addition, the contest was posted on the main page of the ES website, and flyers were delivered to local libraries. Entries were due by February 1.

Approximately 143 entries were received for the *Look What's New With Do More Blue* poster contest. EEExchange selected approximately 20 “finalists” and gave all of the entries to Environmental Services for final decisions. Two winners were selected (both from Sierra Middle School). An unveiling ceremony was held at Sierra Middle School on April 24, during which the two students first found out that they were winners. Their entries were enlarged into posters and placed onto two new energy-efficient CNG trucks. Mayor Rothschild spoke at the event, as well as Nancy Peterson from ES. Several additional representatives from ES were present, as well as Debbie Gevirtzman from EEExchange. Refer to [Appendix G](#) for details.



APPENDIX A

City of Tucson Recycling Education Outreach Education Summary Report: 2012-2013

Summary

In 2012-2013, The Environmental Education Exchange presented **170 *Too Good to Throw Away!*** programs to **4,379** students at **53** schools. In addition, **44 *Do More Blue, Meet the Truck Crew*** programs were presented at **11** sites to **563** students in afterschool programs. **One** special event was attended.

<i>Too Good to Throw Away!</i>	
2012-2013:	170 presentations
3 rd Grade:	1854 students
4 th Grade:	1283 students
5 th Grade:	901 students
Other (2 nd , 2 nd /3 rd , 3 rd /4 th , 3 rd -5 th , 4 th /5 th , after school theater program):	768 students
Total Students:	4379 students reached
Total Schools:	53 schools visited

Schools visited (For details, refer to [Appendix D.](#))

TUSD: Banks, Bonillas, Borman, Borton, Cavett, Corbett, Cragin, Davidson, Dietz, Erickson, Ford, Gale, Grijalva, Henry, Holladay, Hollinger, Howell, Hudlow, Hughes, Kellond, Lawrence, Lineweaver, Manzo, Marshall, Miles, Ochoa, Oyama, Robins, Robison, Rose, Sewell, Soleng Tom, Tolson, Tully, Van Buskirk, Vesey, Warren, White, and Whitmore Elementary Schools

AMPHI: Holaway, Keeling and Nash Elementary Schools

FWUSD: Walter Douglas Elementary School

SUSD: Drexel Elementary School

CHARTER: Academy of Math and Science, Academy of Tucson Elementary School, Children Reaching for the Sky, Desert Sky Community School, La Paloma Academy-Central, La Paloma Academy-Lakeside

PRIVATE: Our Mother of Sorrows Catholic School, St. Ambrose Catholic School, St. Michael's Parish Day School

<i>Do More Blue, Meet the Truck Crew</i>	
2012-2013 Presentations:	44 Presentations/ 11 Sites
Total:	563 students reached

Sites visited (For details, refer to [Appendix E.](#))

KIDCO at Bloom Elementary School

KIDCO at Borton Elementary School

KIDCO at Cherry Avenue Recreation Center

KIDCO at Cragin Elementary School

KIDCO at El Rio Neighborhood Center (2 visits: pilot presentations without the truck + complete presentations)

KIDCO at Ford Elementary School

KIDCO at Grijalva Elementary School

KIDCO at Lyons Elementary School

KIDCO at Miles Exploratory Learning Center

KIDCO at Randolph Recreation Center

Roberts Head Start Program

<i>Special Events</i> 2012-2013	
Total:	1 special event

For details, refer to [Appendix F.](#)

Curricula Downloaded – 2012-2013

Recycling Curricula Downloaded	2012-2013*
TGTA, GRADES 1-2 - COMPLETE	257
TGTA, GRADES 1-2 - ACTIVITY 1	580
TGTA, GRADES 1-2 - ACTIVITY 2	294
TGTA, GRADES 1-2 - ACTIVITY 3	237
TGTA, GRADES 1-2 - PRELIMINARY INFO	233
TGTA, GRADES 1-2 - ADE STANDARDS	249
TGTA, GRADES 1-2 - COMPLETE - SPANISH	965
TGTA, GRADES 3-5 - COMPLETE	83
TGTA, GRADES 3-5 - ACTIVITY 1	133
TGTA, GRADES 3-5 - ACTIVITY 2	159
TGTA, GRADES 3-5 - ACTIVITY 3	80
TGTA, GRADES 3-5 - PRELIMINARY INFO	42
TGTA, GRADES 3-5 - ADE STANDARDS	59
TGTA, GRADES 3-5 - COMPLETE - SPANISH	1217
REVISED TGTA, GRADES 3-5 - COMPLETE	262
REVISED TGTA, GRADES 3-5 - ACTIVITY 1	267
REVISED TGTA, GRADES 3-5 - ACTIVITY 2	241
REVISED TGTA, GRADES 3-5 - ACTIVITY 3	224
REVISED TGTA, GRADES 3-5 – TEACHER LETTER	246
REVISED TGTA, GRADES 3-5 – BACKGROUND	205
REVISED TGTA, GRADES 3-5 - VOCABULARY	266
REVISED TGTA, GRADES 3-5 - ADE STANDARDS	244
REVISED TGTA, GRADES 3-5 – COMPLETE - SPANISH	155
TTT - COMPLETE	432
TTT - LESSON 1	1872
TTT - LESSON 2	358
TTT - LESSON 3	444
TTT - LESSON 4	438
TTT – TEACHER LETTER	193
TTT – TEACHER BACKGROUND	293
TTT - VOCABULARY	229
TTT - ADE STANDARDS	265
LOOK WHAT'S NEW WITH DO MORE BLUE POSTER CONTEST	628

TGTA = *Too Good to Throw Away!*

TTT = *Talking Trash in Tucson*

*September 1, 2012 – May 23, 2013

APPENDIX B

City of Tucson Recycling Education Outreach Education Summary Report: Autumn 2012

Summary

In Autumn 2012, The Environmental Education Exchange presented **93 *Too Good to Throw Away!* programs** to **2,305 students** at **32 schools**. In addition, **31 *Do More Blue, Meet the Truck Crew* programs** were presented at **8 Kidco sites** to **386 students**. In total, **2,691 students** were reached by both outreach programs.

Too Good to Throw Away!	
Autumn 2012:	93 presentations
3 rd Grade:	811 students
4 th Grade:	830 students
5 th Grade:	401 students
Other (2 nd , 2 nd /3 rd , 3 rd /4 th , 3 rd -5 th , 4 th /5 th , after school theater arts class):	263 students
Total Students:	2305 students reached
Total Schools:	32 schools visited

Schools visited

TUSD: Bonillas, Borman, Cavett, Corbett, Davidson, Ford, Gale, Henry, Holladay, Hollinger, Hudlow, Hughes, Kellond, Lineweaver, Miles, Ochoa, Robins, Robison, Sewell, Soleng Tom, Vesey, Warren, White Elementary Schools
 AMPHI: Holaway and Nash Elementary Schools
 CHARTER: Academy of Tucson Elementary School, Children Reaching for the Sky, Desert Sky Community School, La Paloma Academy-Central, La Paloma Academy-Lakeside
 PRIVATE: St. Ambrose Catholic School, St. Michael's Parish Day School

<i>Do More Blue, Meet the Truck Crew</i>	
Autumn Presentations:	31 Presentations/ 8 Sites
Total:	386 students reached

Kidco sites visited

Bloom Elementary School
 Cherry Avenue Recreation Center
 Cragin Elementary School
 El Rio Neighborhood Center (2 visits: pilot presentations without the truck + complete presentations)
 Ford Elementary School
 Grijalva Elementary School
 Lyons Elementary School
 Miles Exploratory Learning Center

Highlights:

1. Debbie Gevirtzman continues to be the Outreach Education Coordinator.
2. Torran Anderson, Lisa Brown and Noel Hensley returned as presenters. In addition, one of our energy program presenters, Brian Stark, has returned and will occasionally do recycling presentations as needed. Noel Hensley is phasing out of her position and Cassie Mason has been hired to replace her in October.
3. The *Too Good to Throw Away!* program for 3rd-5th grade was revised during the summer (the 1st-2nd grade program has been canceled for this year). Revisions to the pre/post-visit activities and the

presentation reflect changes as to what can be recycled in the City of Tucson now that there is a new MRF operated by Re-Community. The presentation is now one hour long (instead of 45minutes) and has even more hands-on and interactive activities. In addition, the presentation better explains what natural resources are, how they are made into products, and how products are recycled. Paper, glass, metal and plastic products are represented by “characters” whose faces were designed by Advanced Graphic Design students at Cholla High School. The on-line evaluation was also revised to reflect the program changes.

4. On August 29, presenters attended a 1.5-hour training, reviewing the revisions to the *Too Good to Throw Away!* script and kit materials.

5. On August 30, presenters attended a 3-hour training to learn about the logistics of being a presenter, including discussions on the contents of the training notebook, pay and time sheets, transportation, kit storage and supplies, the scheduling website, and classroom management.

6. Revisions to *Talking Trash in Tucson* were made this summer to reflect changes as to what can be recycled in the City of Tucson now that there is a new MRF operated by Re-Community. In addition, a new lesson was added to incorporate a middle school *Look What's New With Do More Blue* poster contest. The poster contest can be found both within Lesson 4 of *Talking Trash in Tucson* and as a separate downloadable file. Both middle school science and art teachers have been contacted via email to advertise the new poster contest. In addition, the contest has recently been posted on the main page of the ES website, and flyers will be delivered to local libraries.

7. Curriculum activities for *Too Good to Throw Away!* and *Talking Trash in Tucson* continue to be downloaded from the website, even during the summer when no programs occur. During Autumn 2012, the number of downloads exceeded the number of *Too Good to Throw Away!* presentations, suggesting that there are teachers interested in the lessons without having classroom presentations. Note that teachers continue to download both the old and new versions of the pre/post-visit materials for *Too Good to Throw Away!* for 3rd-5th graders. Now that both the scheduling website and the ES website have the revised files posted, there should be an increase in downloading the revised files and a significant decrease in downloading the older files (although it's possible that teachers might find the older versions on the web). Although *Too Good to Throw Away!* presentations are no longer offered to 1st-2nd grade classes, teachers continue to download the files. During the second week of November, these files were removed from the Environmental Services website, although they are still available on the scheduling website, with an explanation that they have not been revised to reflect the increased types of plastics we can recycle in Tucson since the new MRF opened. (See tables below.)

8. *Too Good to Throw Away!* continues to receive extremely positive feedback on evaluation forms and from direct communication with teachers. First and second grade teachers would like to be able to schedule presentations, and more TUSD teachers would like to schedule (there is already a waiting list).

9. A new presentation for afterschool KIDCO programs, *Do More Blue, Meet the Truck Crew*, was developed for Environmental Services. On September 26, 2012, Torran Anderson and Noel Hensley piloted the first part of the program during 3 presentations at El Rio Neighborhood Center, while Debbie Gevirtzman made observations and gave feedback. Representatives from Environmental Services and the Environmental Education Exchange observed the presentations at El Rio on October 24, 2012. KIDCO coordinator Mele Ferreira is helping coordinate; each Kidco site usually does recycling activities on the Monday and Tuesday before the presentations on Wednesday. In addition, he has created a rotation with related activities for students to do on presentation days. Two additional KIDCO sites will have presentations in January, 2013.

10. The total number of students reached by *Too Good to Throw Away!* decreased in Autumn 2012 (1570 fewer students), with 63 fewer presentations and 12 fewer schools compared with Autumn 2011. These decreases are a direct result of no longer offering presentations to 1st-2nd grades. (There are many 1st and 2nd grade teachers who have requested presentations this year but had to be turned down.) Comparing only 3rd-5th grade presentations, there were 18 additional presentations to 408 more students in August 2012 as compared with August 2011.

11. Teachers have already scheduled 42 programs for the spring (as compared to 98 presentations last year, but that includes 1st-2nd grades in addition to grades 3-5). There are 65 presentations remaining (out of 200) to be scheduled, as compared with 146 (out of 400) at this time last year.

Recycling Curricula Downloaded	Summer 2012*	Autumn 2012**
TGTA, GRADES 1-2 - COMPLETE	123	85
TGTA, GRADES 1-2 - ACTIVITY 1	155	234
TGTA, GRADES 1-2 - ACTIVITY 2	67	108
TGTA, GRADES 1-2 - ACTIVITY 3	43	78
TGTA, GRADES 1-2 - PRELIMINARY INFO	88	90
TGTA, GRADES 1-2 - ADE STANDARDS	50	97
TGTA, GRADES 1-2 - COMPLETE - SPANISH	390	585
TGTA, GRADES 3-5 - COMPLETE	81	38
TGTA, GRADES 3-5 - ACTIVITY 1	90	83
TGTA, GRADES 3-5 - ACTIVITY 2	135	91
TGTA, GRADES 3-5 - ACTIVITY 3	53	41
TGTA, GRADES 3-5 - PRELIMINARY INFO	53	26
TGTA, GRADES 3-5 - ADE STANDARDS	75	34
TGTA, GRADES 3-5 - COMPLETE - SPANISH	1025	599
REVISED TGTA, GRADES 3-5 - COMPLETE	6	105
REVISED TGTA, GRADES 3-5 - ACTIVITY 1	9	113
REVISED TGTA, GRADES 3-5 - ACTIVITY 2	7	101
REVISED TGTA, GRADES 3-5 - ACTIVITY 3	5	86
REVISED TGTA, GRADES 3-5 - TEACHER LETTER	3	105
REVISED TGTA, GRADES 3-5 - BACKGROUND	3	75
REVISED TGTA, GRADES 3-5 - VOCABULARY	9	107
REVISED TGTA, GRADES 3-5 - ADE STANDARDS	5	100
REVISED TGTA, GRADES 3-5 - COMPLETE - SPANISH	NA	34
TTT - COMPLETE	554	204
TTT - LESSON 1	510	486
TTT - LESSON 2	53	127
TTT - LESSON 3	80	116
TTT - LESSON 4	157	192
TTT - TEACHER LETTER	NA	38
TTT - TEACHER BACKGROUND	64	92
TTT - VOCABULARY	NA	36
TTT - ADE STANDARDS	50	83
LOOK WHAT'S NEW WITH DO MORE BLUE POSTER CONTEST	NA	115

*June 1-Aug. 31, 2012 **Sept. 1-Dec. 20, 2012

TGTA = *Too Good to Throw Away!*

APPENDIX C

City of Tucson Recycling Education Outreach Education Summary Report: Spring 2013

Summary

In Spring 2013, The Environmental Education Exchange presented **77 *Too Good to Throw Away!*** programs to **2,074 students** at **26 schools**. In addition, **13 *Do More Blue, Meet the Truck Crew*** presentations were presented at **3 sites** to **177 students**. Also, **1** special event was attended.

Too Good to Throw Away!	
Spring 2013:	77 presentations
3 rd Grade:	1043 students
4 th Grade:	453 students
5 th Grade:	500 students
Other (2 nd /3 rd , 3 rd /4 th , 4 th /5 th):	78 students
Total Students:	2074 students reached
Total Schools:	26 schools visited

Schools visited

TUSD: Banks, Bonillas, Borton, Cragin, Dietz, Erickson, Ford, Grijalva, Howell, Lawrence, Manzo, Marshall, Oyama, Rose, Soleng Tom, Tolson, Tully, Van Buskirk, Vesey, and Whitmore Elementary Schools

AMPHI: Keeling and Nash Elementary Schools

FWUSD: Walter Douglas Elementary School

SUSD: Drexel Elementary School

CHARTER: Academy of Math and Science

PRIVATE: Our Mother of Sorrows Catholic School

<i>Do More Blue, Meet the Truck Crew</i>	
Spring 2013 Presentations:	13 Presentations/ 3 Sites
Total:	177 students reached

Sites visited

KIDCO at Randolph Recreation Center

KIDCO at Borton Elementary School

Head Start Program at Roberts/Naylor K-8 School

<i>Special Events</i>	
Spring 2013	
Total:	1 special event

Highlights:

1. Because the total number of presentations was cut in half this year and grades 1-2 were completely cut from the program, the total numbers of students and schools significantly decreased. There were 167 fewer presentations to 3,979 fewer students and 30 fewer schools in Spring 2013 compared with Spring 2012.

2. In total, 170 presentations were scheduled in a variety of districts, with a waiting list for about 22 additional presentations. (These were teachers who scheduled on-line or contacted the Outreach Education Coordinator directly; there were probably many more teachers who would have scheduled, but the Coordinator stopped advertising and blocked out the scheduling website calendar.) The budget for the 30 additional presentations not scheduled will be used to revise the 1st-

2nd grade version of *Too Good to Throw Away! Too Good to Throw Away!*, which will be reinstated next school year.

3. In March, recycling presentations were completely booked for the remainder of the school year, with a total of 170. There was a waiting list for about 22 additional presentations (these were teachers who scheduled on-line or contacted the Outreach Education Coordinator directly; there were probably many more teachers who would have scheduled, but the Coordinator stopped advertising and blocked out the scheduling website calendar.)

4. *Too Good to Throw Away!* continues to receive extremely positive feedback on evaluation forms and from direct communication with teachers.

5. Curriculum activities for *Too Good to Throw Away!* and *Talking Trash in Tucson* continue to be downloaded from the website. During the spring, the number of downloads exceeds the number of *Too Good to Throw Away!* presentations, suggesting that there are teachers interested in the lessons without having classroom presentations. In addition, teachers continued to download files for 1st-2nd grade activities even though no classroom presentations were available for those grades.

6. Torran Anderson attended the Girl Scouts Take Action event at Reid Park on January 21 from 10:00-12:00. He shared information about recycling using the *Too Good to Throw Away!* kit, and he promoted the *Look What's New With Do More Blue* Poster Contest. He had a table with contest flyers, blank paper, and colored markers and pencils so that interested kids could get started on their posters at the event.

7. Over 143 entries were received for the *Look What's New With Do More Blue* poster contest. EEExchange selected approximately 20 “finalists” and gave all of the entries to Environmental Services for final decisions. On April 24, ES held an awards ceremony for the two winners. Both winners were from Sierra Middle School in SUSD. Their posters have been enlarged and mounted on the sides of two brand-new CNG trucks. The posters were also framed and presented to each winner. Mayor Rothschild spoke at the event, as well as Nancy Peterson from ES. Several additional representatives from ES were present, as well as Debbie Gevirtzman from EEExchange.

8. A modified version of *Do More Blue, Meet the Truck Crew* was presented for 65 pre-school students at the Head Start program at Roberts/Naylor Elementary School on April 26. Presenters Torran Anderson and Debbie Gevirtzman met in advance to modify the program to meet the needs and developmental abilities of 3, 4 and 5 year olds (because it was originally designed for elementary school grades K-5). Because the children especially enjoyed the recycling truck and driver Mike, but weren't quite able to grasp the concept of recycling, it is recommended that any future pre-school programs just involve the truck and not a classroom presentation. In total, in Spring 2013 there were 11 *Do More Blue, Meet the Truck Crew* presentations at 3 sites for 177 students.

Special Events – Spring 2013

Date	Time	Special Event
1/21/13	10:00 a.m.-12:00 p.m.	Girl Scouts Take Action MLK Event – Reid Park

Curricula Downloaded – Spring 2013

Recycling Curricula Downloaded	Spring 2013*
TGTA, GRADES 1-2 - COMPLETE	164

TGTA, GRADES 1-2 - ACTIVITY 1	332
TGTA, GRADES 1-2 - ACTIVITY 2	177
TGTA, GRADES 1-2 - ACTIVITY 3	151
TGTA, GRADES 1-2 - PRELIMINARY INFO	133
TGTA, GRADES 1-2 - ADE STANDARDS	144
TGTA, GRADES 1-2 - COMPLETE - SPANISH	361
TGTA, GRADES 3-5 - COMPLETE	44
TGTA, GRADES 3-5 - ACTIVITY 1	49
TGTA, GRADES 3-5 - ACTIVITY 2	59
TGTA, GRADES 3-5 - ACTIVITY 3	36
TGTA, GRADES 3-5 - PRELIMINARY INFO	16
TGTA, GRADES 3-5 - ADE STANDARDS	24
TGTA, GRADES 3-5 - COMPLETE - SPANISH	610
REVISED TGTA, GRADES 3-5 - COMPLETE	149
REVISED TGTA, GRADES 3-5 - ACTIVITY 1	148
REVISED TGTA, GRADES 3-5 - ACTIVITY 2	132
REVISED TGTA, GRADES 3-5 - ACTIVITY 3	131
REVISED TGTA, GRADES 3-5 – TEACHER LETTER	133
REVISED TGTA, GRADES 3-5 – BACKGROUND	124
REVISED TGTA, GRADES 3-5 - VOCABULARY	152
REVISED TGTA, GRADES 3-5 - ADE STANDARDS	137
REVISED TGTA, GRADES 3-5 – COMPLETE - SPANISH	114
TTT - COMPLETE	207
TTT - LESSON 1	1273
TTT - LESSON 2	217
TTT - LESSON 3	317
TTT - LESSON 4	232
TTT – TEACHER LETTER	150
TTT – TEACHER BACKGROUND	189
TTT - VOCABULARY	183
TTT - ADE STANDARDS	171
LOOK WHAT'S NEW WITH DO MORE BLUE POSTER CONTEST	489

TGTA = *Too Good to Throw Away!*

*January 1-May 23, 2013

TTT = *Talking Trash in Tucson*

APPENDIX D

Too Good to Throw Away! Participating Schools 2012-2013

Date	District	School	Program	Students	Grades
9/4/12 8:45	TUSD	HOLLINGER ELEM SCH	TGTA	16	4
9/4/12 9:50	TUSD	HOLLINGER ELEM SCH	TGTA	23	4
9/4/12 10:55	TUSD	HOLLINGER ELEM SCH	TGTA	23	5
9/5/12 8:45	TUSD	HOLLINGER ELEM SCH	TGTA	26	4
9/5/12 9:50	TUSD	HOLLINGER ELEM SCH	TGTA	21	5
9/5/12 10:55	TUSD	HOLLINGER ELEM SCH	TGTA	23	5
9/6/12 12:30	TUSD	HOLLADAY ELEM SCH	TGTA	29	4
9/6/12 13:35	TUSD	HOLLADAY ELEM SCH	TGTA	28	4
9/10/12 9:45	C/P	ACAD OF TUC EL SCHOOL	TGTA	22	3
9/10/12 10:50	C/P	ACAD OF TUC EL SCHOOL	TGTA	22	3
9/17/12 8:15	TUSD	DAVIDSON ELEM SCH	TGTA	21	3
9/17/12 9:20	TUSD	DAVIDSON ELEM SCH	TGTA	21	3
9/17/12 10:25	TUSD	DAVIDSON ELEM SCH	TGTA	12	3
9/18/12 10:00	TUSD	BORMAN ELEM SCH	TGTA	25	5
9/18/12 11:05	TUSD	BORMAN ELEM SCH	TGTA	25	5
9/21/12 9:00	TUSD	HUGHES, SAM ELEM SCH	TGTA	31	3
9/21/12 10:15	TUSD	HUGHES, SAM ELEM SCH	TGTA	31	3
9/24/12 9:00	TUSD	HENRY ELEM SCH	TGTA	29	5
9/24/12 10:05	TUSD	HENRY ELEM SCH	TGTA	29	5
9/25/12 9:00	TUSD	ROBISON ELEM SCH	TGTA	27	3
9/25/12 10:05	TUSD	ROBISON ELEM SCH	TGTA	28	3
10/9/12 12:00	TUSD	OCHOA ELEM SCH	TGTA	32	3/4
10/9/12 13:05	TUSD	OCHOA ELEM SCH	TGTA	22	3
10/11/12 11:15	TUSD	CAVETT ELEM SCH	TGTA	20	2/3
10/11/12 12:30	TUSD	CAVETT ELEM SCH	TGTA	24	3
10/15/12 13:00	C/P	LA PALOMA AC-LAKESIDE	TGTA	28	3
10/15/12 14:05	C/P	LA PALOMA AC-LAKESIDE	TGTA	28	3
10/17/12 15:00	C/P	DESERT SKY COMM SCH	TGTA	15	K-5
10/18/12 11:45	TUSD	GALE ELEM SCH	TGTA	33	4
10/18/12 12:50	TUSD	GALE ELEM SCH	TGTA	33	4
10/19/12 12:15	AMPHI	HOLAWAY ELEM SCH	TGTA	24	3
10/19/12 13:20	AMPHI	HOLAWAY ELEM SCH	TGTA	24	3
10/22/12 9:00	TUSD	ROBINS K-8 SCH	TGTA	32	5
10/22/12 10:05	TUSD	ROBINS K-8 SCH	TGTA	32	5
10/25/12 9:55	TUSD	SEWELL ELEM SCH	TGTA	30	5
10/25/12 11:00	TUSD	SEWELL ELEM SCH	TGTA	25	5
10/26/12 8:30	TUSD	WARREN ELEM SCH	TGTA	18	3
10/26/12 9:35	TUSD	WARREN ELEM SCH	TGTA	21	3
10/29/12 8:30	TUSD	ROBINS K-8 SCH	TGTA	28	4
10/29/12 9:35	TUSD	ROBINS K-8 SCH	TGTA	25	4

10/29/12 10:40	TUSD	ROBINS K-8 SCH	TGTA	25	4
10/30/12 12:00	TUSD	MILES EXPL LRNING CNTR	TGTA	28	3-5
10/30/12 13:05	TUSD	MILES EXPL LRNING CNTR	TGTA	30	3-5
10/30/12 14:10	TUSD	MILES EXPL LRNING CNTR	TGTA	27	3-5
10/31/12 9:00	TUSD	CORBETT ELEM SCH	TGTA	21	3
10/31/12 10:05	TUSD	CORBETT ELEM SCH	TGTA	21	3
11/5/12 8:00	TUSD	WHITE ELEM SCH	TGTA	25	4
11/5/12 9:05	TUSD	WHITE ELEM SCH	TGTA	23	4
11/5/12 10:10	TUSD	WHITE ELEM SCH	TGTA	18	4
11/7/12 8:45	TUSD	WHITE ELEM SCH	TGTA	29	4
11/7/12 9:50	TUSD	WHITE ELEM SCH	TGTA	28	4
11/8/12 9:00	TUSD	HUDLOW ELEM SCH	TGTA	18	3
11/8/12 10:05	TUSD	HUDLOW ELEM SCH	TGTA	18	3
11/9/12 8:45	TUSD	BONILLAS BASIC CURRIC	TGTA	27	3
11/9/12 9:45	TUSD	BONILLAS BASIC CURRIC	TGTA	27	3
11/9/12 10:45	TUSD	BONILLAS BASIC CURRIC	TGTA	27	3
11/9/12 8:45	C/P	LA PALOMA ACAD-CENTRAL	TGTA	24	4
11/9/12 9:50	C/P	LA PALOMA ACAD-CENTRAL	TGTA	29	4
11/9/12 10:55	C/P	LA PALOMA ACAD-CENTRAL	TGTA	28	4
11/15/12 12:15	TUSD	VESEY ELEM SCH	TGTA	33	3
11/15/12 13:20	TUSD	VESEY ELEM SCH	TGTA	31	3
11/15/12 14:25	TUSD	VESEY ELEM SCH	TGTA	31	3
11/26/12 8:45	TUSD	LINWEAVER ELEM SCH	TGTA	24	5
11/26/12 9:50	TUSD	LINWEAVER ELEM SCH	TGTA	23	5
11/27/12 9:00	C/P	ST AMBROSE SCH	TGTA	16	3
11/27/12 10:05	C/P	ST AMBROSE SCH	TGTA	16	4
11/28/12 10:40	C/P	ST MICHAELS PAR DAY SCH	TGTA	16	4
11/28/12 11:27	C/P	ST MICHAELS PAR DAY SCH	TGTA	16	4
11/29/12 9:30	TUSD	VESEY ELEM SCH	TGTA	30	5
11/29/12 10:45	TUSD	VESEY ELEM SCH	TGTA	30	5
11/30/12 9:30	TUSD	LINWEAVER ELEM SCH	TGTA	28	4
11/30/12 10:35	TUSD	LINWEAVER ELEM SCH	TGTA	26	4
11/30/12 12:30	TUSD	OCHOA ELEM SCH	TGTA	23	4/5
11/30/12 13:35	TUSD	OCHOA ELEM SCH	TGTA	33	4/5
12/10/12 9:00	TUSD	SEWELL ELEM SCH	TGTA	25	3
12/10/12 10:05	TUSD	SEWELL ELEM SCH	TGTA	25	3
12/12/12 8:45	TUSD	SOLENG TOM ELEM SCH	TGTA	31	4
12/12/12 9:50	TUSD	SOLENG TOM ELEM SCH	TGTA	31	4
12/12/12 10:55	TUSD	SOLENG TOM ELEM SCH	TGTA	30	4
12/14/12 9:00	TUSD	CORBETT ELEM SCH	TGTA	20	4
12/14/12 10:05	TUSD	CORBETT ELEM SCH	TGTA	25	4

12/14/12 11:10	TUSD	CORBETT ELEM SCH	TGTA	16	4
12/14/12 9:00	TUSD	FORD ELEM SCH	TGTA	27	3
12/14/12 10:05	TUSD	FORD ELEM SCH	TGTA	25	3
12/17/12 9:15	TUSD	KELLOND ELEM SCH	TGTA	24	3
12/17/12 10:20	TUSD	KELLOND ELEM SCH	TGTA	25	3
12/17/12 11:25	TUSD	KELLOND ELEM SCH	TGTA	25	3
12/17/12 12:10	C/P	CHILDREN RCHNG FOR THE SKY	TGTA	22	4
12/17/12 13:35	C/P	CHILDREN RCHNG FOR THE SKY	TGTA	23	4
12/18/12 9:00	AMPHI	NASH ELEM SCH	TGTA	20	3/4
12/18/12 10:10	AMPHI	NASH ELEM SCH	TGTA	20	4
12/18/12 11:20	AMPHI	NASH ELEM SCH	TGTA	20	4
12/19/12 10:10	AMPHI	NASH ELEM SCH	TGTA	20	4
12/19/12 11:20	AMPHI	NASH ELEM SCH	TGTA	19	4/5
1/9/13 9:40	TUSD	LAWRENCE 3-8 SCH	TGTA	29	3
1/9/13 10:45	TUSD	LAWRENCE 3-8 SCH	TGTA	29	3
1/9/13 12:45	TUSD	LAWRENCE 3-8 SCH	TGTA	29	3
1/14/13 9:30	TUSD	WHITMORE ELEM SCH	TGTA	26	3
1/14/13 10:45	TUSD	WHITMORE ELEM SCH	TGTA	25	3
1/16/13 9:00	TUSD	HOWELL ELEM SCH	TGTA	33	3
1/16/13 10:05	TUSD	HOWELL ELEM SCH	TGTA	33	3
1/24/13 12:15	C/P	OUR MTHR OF SRRWS	TGTA	22	3
1/24/13 13:15	C/P	OUR MTHR OF SRRWS	TGTA	20	3
1/25/13 9:50	TUSD	BANKS ELEM SCH	TGTA	35	3
1/25/13 10:55	TUSD	BANKS ELEM SCH	TGTA	35	3
2/11/13 12:45	C/P	ACAD OF MATH AND SCI	TGTA	18	3
2/11/13 14:00	C/P	ACAD OF MATH AND SCI	TGTA	21	3
2/18/13 12:35	SUSD	DREXEL ELEM SCH	TGTA	25	5
2/18/13 13:40	SUSD	DREXEL ELEM SCH	TGTA	25	5
2/19/13 12:35	SUSD	DREXEL ELEM SCH	TGTA	25	5
2/19/13 13:40	SUSD	DREXEL ELEM SCH	TGTA	25	5
3/8/13 12:15	TUSD	TULLY ELEM SCH	TGTA	63	3
3/8/13 13:20	TUSD	TULLY ELEM SCH	TGTA	33	3
3/11/13 8:15	TUSD	DIETZ ELEM SCH	TGTA	27	3
3/11/13 9:20	TUSD	DIETZ ELEM SCH	TGTA	27	3
3/12/13 9:00	AMPHI	NASH ELEM SCH	TGTA	19	5
3/12/13 10:05	AMPHI	NASH ELEM SCH	TGTA	21	5
3/12/13 11:10	AMPHI	NASH ELEM SCH	TGTA	21	5
3/12/13 9:30	TUSD	BORTON ELEM SCH	TGTA	28	3
3/12/13 10:35	TUSD	BORTON ELEM SCH	TGTA	28	3
3/20/13 9:40	TUSD	CRAGIN ELEM SCH	TGTA	28	4
3/20/13 10:45	TUSD	CRAGIN ELEM SCH	TGTA	28	4

4/5/13 8:30	C/P	ACAD OF MATH AND SCI	TGTA	23	4
4/5/13 9:35	C/P	ACAD OF MATH AND SCI	TGTA	22	4
4/8/13 8:30	TUSD	MARSHALL ELEM SCH	TGTA	33	3
4/8/13 9:45	TUSD	MARSHALL ELEM SCH	TGTA	30	2/3
4/12/13 9:00	AMPHI	KEELING ELEM SCH	TGTA	30	4
4/12/13 10:15	AMPHI	KEELING ELEM SCH	TGTA	30	4
4/22/13 8:50	TUSD	ERICKSON ELEM SCH	TGTA	25	3
4/22/13 9:55	TUSD	ERICKSON ELEM SCH	TGTA	26	3
4/22/13 11:00	TUSD	ERICKSON ELEM SCH	TGTA	26	3
4/22/13 9:20	TUSD	SOLENG TOM ELEM SCH	TGTA	29	3
4/22/13 10:20	TUSD	SOLENG TOM ELEM SCH	TGTA	29	3
4/22/13 12:15	TUSD	SOLENG TOM ELEM SCH	TGTA	29	3
4/23/13 10:00	TUSD	VESEY ELEM SCH	TGTA	28	4
4/23/13 11:15	TUSD	VESEY ELEM SCH	TGTA	28	4
4/24/13 8:30	TUSD	VAN BUSKIRK ELEM SCH	TGTA	18	3
4/24/13 9:35	TUSD	VAN BUSKIRK ELEM SCH	TGTA	23	3
4/24/13 10:40	TUSD	VAN BUSKIRK ELEM SCH	TGTA	20	3
4/25/13 10:00	TUSD	VESEY ELEM SCH	TGTA	28	4
4/25/13 11:15	TUSD	VESEY ELEM SCH	TGTA	28	4
4/29/13 8:45	TUSD	OYAMA ELEM SCH	TGTA	23	5
4/29/13 9:50	TUSD	OYAMA ELEM SCH	TGTA	23	5
4/29/13 10:55	TUSD	OYAMA ELEM SCH	TGTA	24	5
4/30/13 9:55	TUSD	GRIJALVA ELEM SCH	TGTA	25	5
4/30/13 11:00	TUSD	GRIJALVA ELEM SCH	TGTA	25	5
5/1/13 9:00	TUSD	TULLY ELEM SCH	TGTA	26	5
5/1/13 10:15	TUSD	TULLY ELEM SCH	TGTA	28	5
5/2/13 9:30	TUSD	ROSE K-8 SCH	TGTA	26	3
5/2/13 10:35	TUSD	ROSE K-8 SCH	TGTA	20	3
5/3/13 9:30	TUSD	ROSE K-8 SCH	TGTA	26	3
5/3/13 10:35	TUSD	ROSE K-8 SCH	TGTA	26	3
5/6/13 8:00	TUSD	TOLSON ELEM SCH	TGTA	25	5
5/6/13 9:10	TUSD	TOLSON ELEM SCH	TGTA	25	5
5/6/13 10:20	TUSD	TOLSON ELEM SCH	TGTA	25	5
5/7/13 8:00	TUSD	TOLSON ELEM SCH	TGTA	25	4
5/7/13 9:10	TUSD	TOLSON ELEM SCH	TGTA	18	3/4
5/7/13 10:20	TUSD	TOLSON ELEM SCH	TGTA	26	4
5/9/13 11:25	TUSD	MANZO ELEM SCH	TGTA	30	3
5/9/13 12:35	TUSD	MANZO ELEM SCH	TGTA	30	4/5
5/10/13 9:00	TUSD	BONILLAS BASIC CURRIC	TGTA	31	4
5/10/13 10:05	TUSD	BONILLAS BASIC CURRIC	TGTA	32	4
5/13/13 8:05	FWUSD	DOUGLAS, WALTER EL SCH	TGTA	32	3

5/13/13 9:05	FWUSD	DOUGLAS, WALTER EL SCH	TGTA	32	3
5/13/13 10:05	FWUSD	DOUGLAS, WALTER EL SCH	TGTA	32	3
5/14/13 9:00	TUSD	ROSE K-8 SCH	TGTA	30	5
5/14/13 10:05	TUSD	ROSE K-8 SCH	TGTA	30	5
5/14/13 11:10	TUSD	ROSE K-8 SCH	TGTA	30	5
5/15/13 7:50	TUSD	FORD ELEM SCH	TGTA	22	4
5/15/13 8:50	TUSD	FORD ELEM SCH	TGTA	22	4
5/15/13 9:50	TUSD	FORD ELEM SCH	TGTA	22	4

TGTA = *Too Good to Throw Away!*

APPENDIX E

Do More Blue, Meet the Truck Crew 2012-2013

Date	SITE	Program	Presentations	Students
9/26/12 14:00	KIDCO - EL RIO NEIGHBORHOOD CENTER	DMB	3 (pilot – no truck)	42
10/10/12 14:00	KIDCO - GRIJALVA ELEM SCH	DMB	4	55
10/17/12 14:00	KIDCO - EXPL LEARNING CENTER	DMB	4	46
10/24/12 14:00	KIDCO - EL RIO NEIGHBORHOOD CENTER	DMB	3	42
11/7/12 14:00	KIDCO - FORD ELEM SCH	DMB	3	42
11/14/12 14:00	KIDCO - CHERRY AVE RECREATION CENTER	DMB	4	50
11/28/12 14:00	KIDCO - BLOOM ELEM SCH	DMB	4	45
12/5/12 14:00	KIDCO - CRAGIN ELEM SCH	DMB	3	34
12/12/12 14:00	KIDCO - LYONS ELEM SCH	DMB	3	30
1/16/13 15:00	KIDCO - RANDOLPH RECREATION CENTER	DMB	2	22
1/23/13 14:15	KIDCO - BORTON ELEMENTARY SCHOOL	DMB	5	90
2/22/13 9:30	ROBERTS HEAD START PROGRAM	DMB	6	65
	TOTAL		44	563

DMB = *Do More Blue, Meet the Truck Crew*

APPENDIX F

Special Events 2012-2013

DATE	TIME	EVENT
1/21/2013	10:00-12:00	Girl Scouts Take Action MLK Event – Reid Park

APPENDIX G

Look What's New with Do More Blue Poster Contest 2013

District	School	Entries Submitted	"Finalists"	Winners
TUSD	Booth-Fickett K-8	29	1	
TUSD	Carson MS	4		
TUSD	Doolen MS	52	4	
TUSD	Gridley MS	1		
TUSD	Magee MS	2		
TUSD	Miles K-8	4		
TUSD	Robins K-8	1		
TUSD	Roskruge K-8	19	2	
TUSD	Vail MS	3		
SUSD	Apollo MS	1	1	
SUSD	Sierra MS	6	5	2
AMPHI	Amphi MS	11	5	
CFSD	Orange Grove MS	1		
CHARTER	Carden of Tucson	9	1	
TOTAL		143	19	2
		14 schools	7 schools	1 school
		5 districts	4 districts	1 district

