Anti-littering Programs

Public Lands Institute

7-5-2009


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Executive Summary

- Exploratory development of an adopt-a-block program was initiated to address the litter and desert dumping problems that exist in the urban-public land interfaces throughout Clark County began.
- Draft of SNAP recycling feasibility report was completed.
- Preliminary field data form was revised for GIS database project.
- Phase III media campaign began.
- Ten clean-up events were conducted this quarter.
- The team provided 534 cubic yards of roll-off space for clean-ups.

Summary of Attachments

- Meeting Agendas and Minutes
- Adopt-a-block program handout
- Adopt-a-block concept development plan
- Draft of SNAP recycling feasibility report

Collaboration with Interagency Teams

The Interagency Anti-Litter team met three times this quarter, on April 22, 2009; May 27, 2009; and June 24, 2009 (see attached agendas and minutes for details). The team continues to meet on a monthly basis and is providing direction on all four subtasks as detailed below.

Task 1: Strategic Planning and Project Management.

Neighborhood Clean-ups

In late April the liaison for the Clark County Commissioner for District C requested a meeting with the BLM and representatives from Clark County Code Enforcement and Air Quality and Environmental Management in order to mitigate complaints and update status/progress more efficiently. The team lead of the Anti-Litter team invited the team to participate in the meeting. The request was initiated by a constituent interested in organizing a neighborhood clean-up. Combined with the spontaneous involvement of the community in a BLM sponsored clean-up in Southern Highlands, it seemed appropriate to explore ways to capitalize on this community interest. At the meeting the idea of developing an adopt-a-block program was introduced as a potentially useful method for alleviating the litter and desert dumping problems on the public lands that are interspersed throughout private lands in Clark County. It was decided that District
C would be a pilot area for further collaborative efforts and that the agencies would meet monthly
to continue searching for solutions to the litter problems in Clark County.

Working collaboratively with neighborhood leaders, the Southern Nevada Health District
(SNHD), Clark County Community Liaisons, and representatives from Clark County Code
Enforcement and Air Quality and Environmental Management, the Anti-litter team has begun
exploring the feasibility of developing a neighborhood adopt-a-block program. This exploration
began with the Anti-litter team examining the benefits, roles, impacts and assumptions of such a
program (see attachments for this concept development step). At the June meeting with county
officials, the Anti-litter team provided attendees with a handout examining common elements of
adopt-a-block programs (see attachments) to facilitate discussion and move the concept
development process forward. The Anti-litter team also supported the Northwest Neighborhood
Clean-up with supplies and staffing assistance, which resulted in 78 cubic yards of waste being
cleaned from BLM land by 23 neighborhood volunteers. These volunteers expressed interest in
participating in a formalized adopt a block program and agreed to provide feedback on their
experiences as the concept continues to form.

Work continued on the development of the SNAP strategic plan for litter and desert dumping in
this quarter. A graduate assistant at the Public Lands Institute began a comprehensive literature
review from which best practices will be gleaned. These best practices will be examined for
potential incorporation into the plan.

Recycling Efforts

Zia Engineering delivered an initial draft of the recycling feasibility study based on the results of
the request for information (see attachments). The team will review the draft, suggest revisions
and present a final draft for SNAP board review by the end of fiscal year 2009.

GIS Project Planning and Management

The team continues to work on plans for a GIS database project for litter and dumping. Revisions
to the draft field data sheet were made, providing the team with an opportunity for additional
feedback. It was determined that the database should be compatible with the Department of
Interior abandoned mine database to enable the SNAP DOI agencies to meet their reporting
requirements. The idea of using the abandoned mine database in place of developing a new SNAP
dumping database was discussed but discarded because the mine database does not collect all of
the information needed to meet the Anti-litter team needs. The GIS Team continues to move
forward on the design of the desert dumping database by incorporating team suggestions into a
final data form and gathering details about the abandoned mine database to ensure compatibility.

Task 2: Messaging Campaign

The Phase III media campaign was initiated with print ads being run in the major Spanish
speaking newspaper, radio ads on Spanish and English speaking stations and billboards in both
English and Spanish being displayed.

Due to the potential need for marketing funds to advertise the emergence of the adopt-a-block
concept the team, with approval from the SNAP board, put on hold the development of a second
Don’t Trash Nevada day. The development of posters was also put on hold until the team could
determine whether or not they would be able to obtain electronic versions for use in agency publications. Poster production will take place in the final quarter of the fiscal year.

Program Website

The Don’t Trash Nevada official Web site (www.donttrashnevada.org) launched on October 12, 2006. The site includes information related to illegal dumping and litter prevention, clean-up events, recycling, household hazardous waste management, and the anti-litter pledge. Data for the period of April - June 2009 indicate 109,264 successful server requests, and 16,473 successful page requests (See Figure 1 below). The excellent site visitation reflects the efforts to increase traffic to the site as well as the influence of the current messaging campaign.

![Don't Trash Nevada website traffic by quarter](image)

Figure 1 shows Don’t Trash Nevada quarterly web traffic since the site went live.

Community Outreach

The Take Pride in America Southern Nevada Team attended 10 community outreach events. Staffed by the Public Lands Institute, these events are an opportunity to raise awareness of the litter and desert dumping problem. Individuals are encouraged to sign the Don’t Trash Nevada pledge by offering them a reusable shopping bag. Table 1 contains a summary of the contacts made and pledges signed.

In addition the SNAP Hispanic Outreach Plan, developed by the Conservation Education team, involved contracting with Language Sources to develop interactive booth games and a Spanish comic book featuring *Super Hector*. Language Sources took these booth games and comic books to various Hispanic community events, raising awareness of the litter and dumping problems in a key target audience.

<table>
<thead>
<tr>
<th>Event Name</th>
<th>Number of Direct Contacts</th>
<th>Number of Pledges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clark Co. Fair &amp; Rodeo</td>
<td>362</td>
<td>81</td>
</tr>
<tr>
<td>2009 Party for the Planet</td>
<td>193</td>
<td>17</td>
</tr>
<tr>
<td>2009 UNLV Earth Week</td>
<td>64</td>
<td>41</td>
</tr>
<tr>
<td>2009 UNLV Earth Day</td>
<td>307</td>
<td>30</td>
</tr>
</tbody>
</table>
Table 1 shows the number of contacts made at community outreach events and the pledges that resulted from these contacts.

### Task 3: Litter and Desert Dumping Clean-ups

The Take Pride in America in Southern Nevada Team participated in ten clean-up events this quarter.

A total of 511 volunteers, donated 2044 hours to our public lands during ten volunteer events. According to the Independent Sector, which provides data for calculating the economic impact of volunteers, the volunteer events this quarter have had an economic impact of $41,391 (See Figures 2-7 on the next pages).

![Number of volunteer clean-ups by quarter](chart.png)

**Figure 2 shows the number of events per quarter since program inception.**
Figure 3 shows the number of volunteers participating in events each quarter since program inception.

Figure 4 shows volunteer hours contributed each quarter since program inception.

Figure 5 shows the value of volunteer hours since program inception in dollars and cents.
Figure 6 shows the number of cubic yards of waste removed from public lands by volunteers.
If each cubic yard of waste removed by the anti-litter team were stacked on top of each other the stack would reach 15,343 feet high.

Figure 7 compares the volume of trash removed from public lands since program inception to a popular monument.
Volunteer Clean-Up Events

Greenway Road Clean up
April 23, 2009—Greenway Road – Bureau of Land Management
The Interagency Volunteer Program collaborated with the Conservation Education team, and the Take Pride Interagency Program (Don’t Trash Nevada) on this event. Fourteen volunteers from the public and 79 students from Mannion Middle School removed 56 cubic yards of construction debris, household furniture, and a hot tub from the Sloan Canyon area. Mojave Max was there to teach the children about the importance of a clean ecosystem.

Earth Day Clean-up Event
April 25, 2009—Sloan Canyon – Bureau of Land Management
The Interagency Volunteer Program collaborated with the Conservation Education team, the Take Pride Interagency Program (Don’t Trash Nevada) and the SNAP Law Enforcement team on this event. Thirteen members of the UNLV Office of Information Technology and two Bureau of Land Management law enforcement rangers removed 28 cubic yards of trash, construction debris, and household waste from 3 separate washes in Sloan Canyon. These washes are now fenced off, thus limiting future illegal dumping.

National Public Lands Day Event
April 27, 2009 – Great Unconformity – Bureau of Land Management
The IVP team collaborated with the Conservation Education team and the Take Pride Interagency Program (Don’t Trash Nevada) on this event. Fifteen volunteers from the public joined 45 Bailey Middle School volunteers and Mojave Max to celebrate National Public Lands Day a little early. They removed 28 cubic yards of trash from the Great Unconformity area.

The Rock Clean-up
The Interagency Volunteer Program collaborated with the SNAP Anti-litter and Desert Dumping team (Don’t Trash Nevada) and the SNAP Law Enforcement team on this event. Seven volunteers removed 20 yards of trash from The Rock, an off road site at Desert National Wildlife Refuge complex.

Spring Cleaning
May 9, 2009 – Spring Mountains National Recreation Area – U.S. Forest Service
Two hundred sixty seven volunteers cleaned up 16 recreation sites during the Spring Mountains Spring Cleaning event. They cleaned up a total of 4310 pounds of litter which occupied 56 cubic yards. In addition to the sense of satisfaction they received from their stewardship efforts, they enjoyed a barbeque with music, art and educational activities.

Sloan Canyon Clean up
May 23, 2009 – Sloan Canyon – Bureau of Land Management
The Interagency Volunteer Program collaborated with the SNAP Anti-litter and Desert Dumping team (Don’t Trash Nevada) on this event. Nine volunteers continued clean-up efforts at Sloan Canyon and removed 36 yards of debris (construction, landscape, general trash, etc.). Also, BLM law enforcement was onsite and issued two citations to individuals driving in a restricted area.
Conservation Transfer Area Clean up
May 30, 2009 – Conservation Transfer Area – Bureau of Land Management
The Interagency Volunteer Program collaborated with the SNAP Anti-litter and Desert Dumping team (Don’t Trash Nevada) on this event. Five local community members saw the hard work of 11 volunteers, including 3 Boy Scouts, and spontaneously joined in to clean up the Conservation Transfer Area. Fifty-six yards of debris ranging from construction and landscape materials to couches and tires were removed.

Northwest Neighborhood Clean up
Twenty-three volunteers removed 76 cubic yards from a 12 block radius at the first ever Northwest Neighborhood Cleanup, Restoration & Preservation Day. The collaborative effort between the nonprofit group Citizens of the Northwest, Clark County, BLM, Public Lands Institute and Republic Services was a big success. Jan Valentino, the event organizer, gratefully acknowledged the efforts of these dedicated partners: “A very special thank you to Clark County Commissioner Larry Brown for his support and his many hours of "hands on" help today as well as to Kim Bush and Carrie Delatorre of Clark County who tenaciously brought this to fruition as well as for their enthusiastic participation today. Deepest thanks also to the hardworking employees of BLM, Republic Services, Don't Trash Nevada and the Public Lands Institute along with the wonderful volunteers who signed up via Get Outdoors Nevada!”

Lucky Strike Clean up
June 20, 2009 – Lucky Strike Canyon Rd – Bureau of Land Management
The Interagency Volunteer Program collaborated with the SNAP Anti-litter and Desert Dumping team (Don’t Trash Nevada). Eleven volunteers and a group of professional surveyors removed 28 cubic yards of debris from the Lucky Strike Canyon Road area of Red Rock Canyon.

Lovell Canyon Clean up
June 20, 2009 – Lovell Canyon – U.S. Forest Service
The Interagency Volunteer Program collaborated with the SNAP Anti-litter and Desert Dumping team (Don’t Trash Nevada) and the SNAP Law Enforcement team on this event. Twelve volunteers including one local community member, one target shooter, five UNLV Circle K Club Members, and five UNLV sorority members were joined by 10 interagency Law Enforcement personnel at Lovell Canyon in the Spring Mountains National Recreation Area. They removed 20 cubic yards of shot up debris including TV’s, stuffed animals, signs, etc. one volunteer collected six 33 gallon trash bags of recyclable plastic.

Additional Dumpsters and Roll-off
In this quarter, the Bureau of Land Management requested 553 cubic yards of roll-off space. The BLM clean-up projects made possible by the Take Pride in America in Southern Nevada’s roll-offs resulted in the removal of 498 cubic yards of waste.

Task 4: Judicial System Analysis
On October 26, 2006, a draft Judicial System Analysis report was presented to the Interagency Law Enforcement Team for review. The Judicial Analysis was determined to be complete by the SNAP Executive Director on February 23, 2007. The Executive Director requested that the Law Enforcement Team provide written comments to include within the Judicial Analysis. Once these
comments are incorporated into the report, it will be submitted in compliance with the task agreement.

Submitted by:  
Margaret N. Rees, Principal Investigator  
Date  
July 5, 2009
**Anti-Litter Team**  
**Meeting Agenda**  
April 22, 2009

**Meeting Called By:** Erika Schumacher, team lead  
**Participants:** Beth Barrie, Bob Loundon, Gordon Gilbert, Amy Sprunger, LaNelda Rolley, Aztec Communications, Craig Palmer, Scott Page

<table>
<thead>
<tr>
<th>Start Time</th>
<th>End Time</th>
<th>Item Description</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>10:00 AM</td>
<td><strong>Messaging Campaign:</strong> Aztec will present ideas for Phase III media campaign.</td>
<td>LaNelda Rolley</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>10:30 AM</td>
<td><strong>Team updates:</strong> Team members will share updates on anti-littering activities in their agencies</td>
<td>Team members</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>11:00 AM</td>
<td><strong>SNAP board assessment feedback:</strong> Team will review SNAP board assessment feedback</td>
<td>Team members</td>
</tr>
</tbody>
</table>
| 11:00 AM   | 11:15 AM | **Round 6 and 7 update:** Erika will update team on funds for Round 6 and 7  
**Zia Update:** Beth will update team on timeline for Recycling Implementation Plan. Team will decide who will issue Request for Information and who will serve as contact. | Erika Schumacher |
| 11:15 AM   | 11:30 AM | **Q3 clean ups:** Beth will review clean-up statistics and team will identify events to enhance numbers in Q3 | Beth Barrie |
| 11:30 AM   | 11:45 AM | **Clark County Update:** Beth will update team about meeting with Clark County Health District intern | Beth Barrie |
| 12:00 PM   | 1:00 PM  | **Lunch** | |
| 1:00 PM    | 2:00 PM  | **GIS database project update:** Craig Palmer and Scott Page will present proof of concept idea for a predictive desert dumping computer model. | Craig Palmer |

**Total Time:** 5:00
Anti-Litter Team
Meeting Agenda
May 27, 2009

Meeting Called By: Erika Schumacher, team lead
Participants: Beth Barrie, Nancy Bernard, Gordon Gilbert, Bob Loudon, Amy Sprunger, Dan Chase, Nathan Coleman
Location: Interagency Office, Forest Service Conference Room

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Time</th>
<th>Item</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>9:30 AM</td>
<td>0:30</td>
<td><strong>Team updates</strong>: Team members will share updates on anti-littering activities in their agencies</td>
<td>Team members</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>9:45 AM</td>
<td>0:15</td>
<td><strong>Strategic Plan and Recycling Plan</strong></td>
<td></td>
</tr>
<tr>
<td>9:45 AM</td>
<td>10:00 AM</td>
<td>0:15</td>
<td><strong>Update</strong>: Beth will update team on these plans.</td>
<td>Beth Barrie</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>10:10 AM</td>
<td>0:10</td>
<td><strong>SNAP board feedback</strong>: Team will learn of SNAP board approvals</td>
<td>Erika Schumacher</td>
</tr>
<tr>
<td>10:10 AM</td>
<td>10:30 AM</td>
<td>0:20</td>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td>10:30 AM</td>
<td>12:00 PM</td>
<td>1:30</td>
<td><strong>Clark County Meeting</strong>: Erika will update team on Clark County Meeting</td>
<td>Erika Schumacher</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td>1:00</td>
<td><strong>Litter Guard Pilot Project</strong>: Team will develop action items and timeline for litter guard pilot project</td>
<td>Team members</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>2:00 PM</td>
<td>1:00</td>
<td><strong>Marketing Campaign</strong>: Team will re-examine marketing campaign to determine funding priorities in light of Litter Guard project developments.</td>
<td>Team members</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>2:30 PM</td>
<td>0:30</td>
<td><strong>Retreat Planning</strong>: Team will determine dates and content ideas for team retreat.</td>
<td>Team members</td>
</tr>
</tbody>
</table>

Total 5:30
Meeting Called By: Erika Schumacher, team lead
Participants: Nancy Bernard, Dan Chase, Gordon Gilbert, Bob Loudon, Amy Sprunger, Scott Page
Location: Interagency Office, Fish and Wildlife Service
Conference Room

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Time</th>
<th>Item</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>10:00 AM</td>
<td>1:00</td>
<td><strong>Desert Dumping Data Form:</strong> Team will finalize data form so the database can begin to be built.</td>
<td>Scott Page</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>10:15 AM</td>
<td>0:15</td>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td>10:15 AM</td>
<td>10:45 AM</td>
<td>0:30</td>
<td><strong>Marketing:</strong> Team will make final decision on posters and determine next steps for Hector based on Aztec's operation costs</td>
<td>Dan Chase</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>11:15 AM</td>
<td>0:30</td>
<td><strong>Recycling Update:</strong> Team will learn costs of purchasing roll offs to collect materials and report back on potential resources the agencies have to implement the plan.</td>
<td>Dan Chase</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>11:30 AM</td>
<td>0:15</td>
<td><strong>Alternative Workforce funds:</strong> Team will decide what to do with the remaining $10,000 in the Division of Forestry obligated funds</td>
<td>Erika Schumacher</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>12:00 PM</td>
<td>0:30</td>
<td><strong>Adopt a Block Update:</strong> Team will receive feedback on the June 13th event</td>
<td>Dan Chase</td>
</tr>
</tbody>
</table>

Total 3:00
Litter Guard/Adopt a Block Concept Development
Anti-litter team meeting discussion May 27, 2009

Goal: To facilitate the development of a program that encourages the community to take an active part in reducing litter on the public lands.

Objectives: At the end of this first team meeting to examine the idea of a neighborhood community based litter program the team members will be able to:

- Identify how the program might benefit their agency
- Describe their individual role in developing and implementing the program
- Articulate expectations for the program
- Identify the intended impacts of the program
- List measures of success for the program
- Articulate the assumptions of the program
- Specify a timeline for the development and implementation of the program including the next step which is to review existing programs and identify elements to incorporate into the Vegas valley program

Facilitation Questions

- How would a community based litter program benefit your individual agency?
- What role do you see yourself playing in developing and implementing this program?
- What are the expectations for a program like this?
- What impacts should the program have?
- How will we know if it’s successful?
- What assumptions are we making in developing this program?
- What is a realistic timeline for implementation of the program?
Adopt a Block Program

**Elements of Adopt a Block Programs**

**Contractual obligation**
- Contact information
- Specific locations
- Specified minimum number of clean ups
- Specific support agency will provide

**Training**
- Optional face to face orientation
- Contact sheets
- Handbook

**Sponsors to donate gifts**

**Responsibilities**
Who will be responsible for what? The following is a first attempt at developing a list. More input from a wider audience is needed.

**Government Coordinator**
- Maintain current list of clean ups and contacts
- Liaison between Govt and residents
- Arrange trainings
- Obtain & distribute materials
- Develop projects
- Implement recognition program

**Block Captain**
- Liaison between block residents & Govt Coordinator
- Establish a system of communications
- Visit & invite new members
- Contact neighbors to stay up to date
- Monitor conditions

**Issues to consider**
Is there a desire in the community? Community initiative seems crucial. They must see the need rather than having the government say “Here’s the problem and here’s the solution we’re giving you.”

How could the program be implemented in community that hasn’t expressed a need?

How will the program work in lower income neighborhoods that face many more pressing challenges than litter?
Federal Interagency
DRAFT Recycling Feasibility Study
for the
Southern Nevada Agency Partnership
and
Public Lands Institute,
University of Nevada / Las Vegas

submitted June 30, 2009 by

Zia Engineering & Environmental Consultants, LLC
Las Vegas, Nevada
Las Cruces, New Mexico
Santa Fe, New Mexico
Lake Oswego, Oregon
Des Moines, Iowa

printed on recycled & recyclable paper
DRAFT Recycling Feasibility Study

1.0 Introduction, Background, Purpose

1.1 Involved Agencies / Entities

Four federal agencies – National Park Service (NPS), U.S. Forest Service (USFS), Bureau of Land Management (BLM), Fish and Wildlife Service (FWS) – maintain offices, facilities, operations, and recreational land in Clark County, Nevada. They have formed the Southern Nevada Agency Partnership (SNAP) in association with the Public Lands Institute (PLI) at the University of Nevada / Las Vegas (UNLV). The USFS is part of the Department of Agriculture (DOA) while the other three agencies are part of the Department of Interior (DOI).

The Public Lands Institute fosters an integrated strategy toward the management and stewardship of public land in Southern Nevada by implementing research, education, and community engagement projects. These projects often involve public / private partnerships and interagency collaboration between the NPS, USFS, BLM, FWS, local municipalities, and other government agencies. There are 7 million acres of public land in Southern Nevada under the jurisdiction of the four SNAP agencies encompassing 8 conservation / recreation areas and 19 wilderness areas.

SNAP has prepared this Recycling Feasibility Study to determine what actions can be undertaken to improve current recycling efforts and implement new initiatives consistent with prevailing federal guidance and policy regarding waste diversion (see Section 1.2).

Central offices and an operations / maintenance / warehouse area for the USFS, BLM, and FWS are located in adjacent buildings at 4701 N. Torrey Pines Drive, Las Vegas. The NPS central office is in Boulder City at 601 Nevada Highway. The NPS operations / maintenance / warehouse area is also in Boulder City but at a separate location near the central office. The address for the NPS operations / maintenance / warehouse area is 101 Katzenbach Drive.

Recreational land maintained by the four SNAP agencies is as follows:

- NPS – Lake Mead National Recreation Area (Lake Mead NRA). Part of Lake Mead NRA extends into Arizona. The entire Lake Mead NRA covers
approximately 1.5 million acres. There are nine “developed” portions of Lake Mead NRA – Boulder Beach, Callville Bay, Cottonwood Cove, Echo Bay, Katherine Landing, Las Vegas Bay, Overton Beach, Temple Bar, and Willow Beach.

- **USFS – Spring Mountain National Recreation Area (Spring Mountain NRA)** in the Humboldt–Toiyabe National Forest. The Spring Mountain NRA is located northwest of Las Vegas off of U.S. Highway 95. The two main areas of the Spring Mountain NRA are Lee Canyon and Kyle Canyon. Lee Canyon is along State Route 156 about 18 miles from U.S. Highway 95 while Kyle Canyon is along State Route 157 about 17 miles from U.S. Highway 95. These two state roads are joined by State Route 158.

- **BLM – Red Rock National Conservation Area (Red Rock NCA)** located directly west of Las Vegas off of State Route 159.


### 1.2 Federal Guidance and Policy Regarding Waste Diversion

Executive Order 13101 – *Greening the Government Through Waste Prevention, Recycling and Federal Acquisition* (1998) requires the director of each executive agency to incorporate waste prevention and recycling in the agency’s daily operations. In addition, each agency must establish a goal for waste prevention / recycling or an overall goal for waste diversion to be achieved by January 1, 2000 and long – term goals to be achieved by the years 2005 and 2010.

The Department of the Interior has prepared a *Strategic Plan for Greening the Department of the Interior Through Waste Prevention, Recycling and Federal Acquisition* (2000; see Appendix A). This Plan sets target goals for diversion of waste from disposal by recycling for DOI offices, facilities, operations, and recreational land at the rate of 40 % by the year 2000, 45 % by the year 2005, and 50 % by the year 2010. Materials identified for recycling unless significant barriers are determined to exist (such as lack of markets and / or cost) are: white paper, mixed paper, newspaper, cardboard, aluminum, plastic (# 1 PET, # 2 HDPE), glass, pallets, scrap metal, toner cartridges, and consistent with applicable hazardous waste regulations, fluorescent lamps and ballasts, batteries, used oil, antifreeze and tires.
The Department of Agriculture is pursuing a variety of sustainability initiatives in its operations (see Appendix B). Within the DOA’s Waste Prevention and Recycling Footprint Focus Area the following Pollution Prevention goal has been defined: Achieve 40 % waste diversion by 2010 and exceed sustainable waste prevention and recycling business practices throughout all Forest Service program activities (http://www.fs.fed.us/sustainableoperations/focus-area-waste-prevention-recycling.shtml).

2.0 Existing Recycling Activities

For purposes of this Recycling Feasibility Study the following distinction is made:

1. Internal recycling at the offices, facilities and operations of the four agencies – the Las Vegas inter–agency location and NPS headquarters plus the maintenance / warehouse complex in Boulder City.

2. External recycling at areas where the public visits – Lake Mead NRA, Spring Mountain NRA, Red Rock Canyon NCA, and the DNWR.

Internal recycling is established. For example, there is recovery of office paper at the Las Vegas inter–agency location with employees putting material into seven 65 gallon carts in back of the main building. The most recent Lake Mead NRA Solid Waste Report is for Fiscal Year 2007 (October 2006 to September 2007; see Appendix G). It lists 30 different materials that are either reused or recycled.

For visitor areas, the need is for a standardized method of offering the opportunity to recycle. Given the remoteness of some locales and transport distances, the required vendor services must be simple and cost–effective.

3.0 Recommendations

3.1 Approach to Recycling Services

In order to meet and possibly go beyond the diversion goals noted in Section 1.2, SNAP / PLI can upgrade and expand present recycling efforts with the assistance of one or more private companies located in Clark County that has demonstrated expertise in the collection, processing, and marketing of recyclable materials. If possible, for administrative simplicity SNAP / PLI should deal with
The upgraded / expanded SNAP recycling program would consist of two basic elements. These are:

1. Internal recycling at the offices, facilities and operations of the four agencies – the Las Vegas inter-agency location and NPS headquarters plus the maintenance / warehouse complex in Boulder City.

2. External recycling at areas where the public visits – Lake Mead NRA, Spring Mountain NRA, Red Rock Canyon NCA, and the DNWR.

For internal recycling, the selected service provider will review with SNAP / PLI recycling procedures and storage containers presently in place to determine if changes are needed or desirable. Based on the revised number, size, locations, and collection frequency of these containers a service fee (or fees) will be negotiated.

As noted previously, in visitor areas the need is for a standardized method of offering the opportunity to recycle. Given the remoteness of some locales and transport distances, the required vendor services must be simple and cost-effective. The way to accomplish this is for SNAP to purchase 30 cubic yard roll-off containers for central storage of commingled or mixed recyclables. Commingling makes recycling more convenient. Agency employees will move materials from small-scale recycling stations and collection points to the roll-offs. These recycling stations / collection points would be either 65 and / or 95 gallon wheeled carts with plastic bag liners (except at Red Rock Canyon NCA; see Section 3.4 below). The vendor would provide an on-call transport / recycling service by removing the full roll-offs and replacing them with an empty one also bought by SNAP. Purchase of roll-offs demonstrates commitment to the program but also is economical – it avoids paying container rental fees and removes the need for the vendor to immediately return the container since SNAP would buy back-ups as well.

An indication of the range of services required of a recycling vendor is offered in the table below:
### Service Category

<table>
<thead>
<tr>
<th>Service Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>A / Empty recycling storage containers located outside inter-agency headquarters</td>
</tr>
<tr>
<td>in Las Vegas – assume 65 gallon carts, 95 gallon carts, or 3 cubic yard dumpsters</td>
</tr>
<tr>
<td>B / Empty recycling storage containers located outside NPS headquarters in Boulder</td>
</tr>
<tr>
<td>City – assume 65 gallon carts, 95 gallon carts, or 3 cubic yard dumpsters</td>
</tr>
<tr>
<td>C / Unload / return 30 cubic yard roll–off box from NPS operations / maintenance</td>
</tr>
<tr>
<td>/ warehouse area in Boulder City</td>
</tr>
<tr>
<td>D / Unload / return 30 cubic yard roll–off box from Spring Mountain NRA – Kyle</td>
</tr>
<tr>
<td>Canyon and Lee Canyon Information Stations</td>
</tr>
<tr>
<td>E / Unload / return 30 cubic yard roll–off box from Red Rock Canyon NCA Visitor</td>
</tr>
<tr>
<td>Center</td>
</tr>
<tr>
<td>F / Unload / return 30 cubic yard roll–off from Desert National Wildlife</td>
</tr>
<tr>
<td>Refuge Visitor Center</td>
</tr>
</tbody>
</table>

#### 3.2 Targeted Materials

The targeted recyclable materials are as follows:

- cardboard
- brown paper bags
- newspapers
- magazines
- catalogues
- white office paper
- colored office paper
- phone books
- paperboard such as cereal boxes, cracker boxes, and paper towel rolls
- junk mail
- aluminum cans
- tin / steel cans
- plastic bottles / jugs # 1 and # 2

This list is based on materials presently being recovered by a variety of recycling collection / processing / marketing firms as documented in the Clark County
3.3 Issuance of Request – for – Information (RFI)

To determine private sector interest in providing the recycling services noted in Section 3.2, SNAP issued a Request – for – Information (see Appendix C). Three responsive submissions prior to the RFI deadline were received from Auburn Fibers, Secured Fibers, and Evergreen Recycling (see Appendices D, E, and F respectively). An incomplete and late response was received from Republic Services. During a meeting on June 18, 2009 with Lake Mead NRA representatives, Boulder City Disposal personnel expressed potential interest in providing the desired recycling services to the NPS and Lake Mead NRA. However, the company did not actually respond to the RFI.

The RFI presented the following program parameters:

- Inter–agency recycling is a joint, cooperative activity conducted by the four SNAP agencies in coordination and cooperation with the UNLV Public Lands Institute.

- It is the intention of SNAP / PLI to upgrade existing recycling activities at agency offices, facilities, and operations and to offer recycling opportunities in visitor areas administered by the agencies.

- Commingling of materials is preferred since this increases the convenience of recycling participation, handling, and storage by employees and visitors. SNAP / PLI understand that commingling places greater responsibility on the service provider for separating and processing materials into marketable commodities. SNAP / PLI further understand that commingled recyclables are typically not as valuable as those that have been sorted into separate commodity categories by the generator prior to collection by a vendor.

- SNAP / PLI will purchase 30 cubic yard roll–off containers for storage of recyclables. Smaller containers for intermediate storage of materials at offices, facilities, and operations may also be purchased depending on discussions with the selected service provider. These will likely be 65 gallon roll carts, 95 gallon roll carts, and 3 cubic yard dumpsters.
• The vendor does not need to return a roll-off immediately because each site will have a second, back-up container.

• Back-up or replacement roll-offs will also be obtained by SNAP / PLI.

• SNAP / PLI need a vendor to provide on-call container transport and recycling services for the recovered materials (collection, processing, marketing).

• Employees of the SNAP agencies, contractors, and / or volunteers connected with each agency will monitor the roll-off containers. They will be secure and not just left open to the public.

• The agencies will be responsible for program organization, promotion / education, and calling the vendor for pickup.

• The vendor is to provide regular (at least quarterly) reports on the quantity of materials recovered from each participating site if feasible. This information can be based on actual weights recorded at the vendor’s facility, on standardized estimates derived from vendor experience, or both.

Other recommendations are as follows:

• Develop a broad theme for the upgraded / expanded recycling program such as “Recycling – A Commitment Renewed”.

• Each of the four agency Federal Managers should formally state and periodically re-emphasize the renewed commitment to recycling. This should also be done by other management personnel in the four agencies, starting at the regional level and extending to deputy superintendents, superintendents, and division chiefs.

• Designate an overall Recycling Coordinator for SNAP, with Assistant Recycling Coordinators in each agency and Recycling Operations Coordinators for each of the major generating sites. In other words, an organizational structure with defined positions and responsibilities should be developed.
• There is a need for more formal, positive communication with employees, contractors, and concessioners about the importance of recycling, their role in the program, and the beneficial results that have been achieved.

• SNAP should assemble a quarterly or semi-annual status report on recycling efforts showing quantifiable results and recognizing key individuals and concessioners who have made a special contribution to the program.

3.4 Cost Impacts

It is not possible to estimate operating expenses for the upgraded / expanded SNAP recycling program since this will depend on the location and number of container collections or “pulls” performed by the service provider within a given period of time. However an estimate can be given for purchase of a specified number of material containers based on the following approximate unit prices (does not include shipping / delivery):

• 65 or 95 gallon plastic roll cart - $50 each

• 3 cubic yard dumpster - $600 each

• 30 cubic yard roll – off box - $5,000 each

It is likely that SNAP could get discounted container rates by placing one or two large orders with a manufacturer used by the selected vendor. However, the costs presented below are based on the unit prices indicated above. The number of containers purchased is noted in parentheses.
<table>
<thead>
<tr>
<th>Federal Agency / Container Types</th>
<th>National Park Service</th>
<th>Forest Service</th>
<th>Bureau of Land Management</th>
<th>Fish and Wildlife Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>65 / 95 gallon roll carts</td>
<td>$2,500 (50)</td>
<td>$500 (10)</td>
<td>$1,250 (25)</td>
<td>$250 (5)</td>
</tr>
<tr>
<td>3 cubic yard dumpsters</td>
<td>$6,000 (10)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 cubic yard roll – off boxes</td>
<td>$200,000 (40)</td>
<td>$20,000 (4)</td>
<td>$30,000 (6)</td>
<td>$10,000 (2)</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$208,500</td>
<td>$20,500</td>
<td>$31,250</td>
<td>$10,250</td>
</tr>
</tbody>
</table>

Regarding the table above, the following explanatory notes are offered:

- Every 30 cubic yard roll – off box has a backup container.

- 40 roll – offs for Lake Mead NRA likely to be phased in over time and include two for the main operations / maintenance complex in Boulder City; two for each of the nine developed areas; and 10 other sites within Lake Mead NRA that would be allocated two roll – offs each (such as the RV parks and other operations / maintenance areas in the field).

- Bureau of Land Management at Red Rock Canyon NCA would use existing “recycling stations” with signposts that were observed stored inside a fenced enclosure at the area where the Fire Station and Law Enforcement Building / Police Station are located.

- Cost estimates in table above do not include internal and external recycling storage containers for the federal interagency office site in Las Vegas. The types and number of such containers (65 or 95 gallon carts inside and either carts and / or 3 cubic yard dumpsters outside) would depend on discussions between SNAP and the selected vendor.
Appendices
Appendix A:

Interior Department Strategic Greening Plan
VISION
The Department of the Interior's mission is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to Island communities. The Department will be an innovative leader in "greening" the Federal government by actively and systematically protecting the natural processes that sustain life on Earth. To fulfill this vision, Interior will, in its own operations, minimize solid waste, prevent pollution, save energy and other resources, reduce greenhouse gas emissions, and encourage public support and participation.

EXECUTIVE SUMMARY
This Strategic Plan outlines goals, implementing strategies, and management controls to satisfy the requirements of Executive Order 13101, "Greening the Government Through Waste Prevention, Recycling and Federal Acquisition," and to further and focus efforts to make DOI facilities more sustainable (both in design and operation). The goals establish DOI targets for diversion of waste through recycling at 40%, 45%, and 50% for the years 2000, 2005, and 2010. Goals for green purchasing and property management focus on the use of nine recycled content, environmentally preferable, and/or biobased products in all DOI facilities, which will be tracked as indicators of broader program adoption. Strategies are outlined to institute policies and practices which will promote the incorporation of environmental considerations into all levels of procurement, from credit card purchasing to large acquisitions. Other strategies approach this issue through facility and property management activities. Implementation is overseen by the Interior Management Council and Interior's Agency Environmental Executive, as supported by an interbureau workgroup.

PURPOSE
The Strategic Plan for Greening the Department of the Interior (Strategic Plan) provides a vision and road map for future waste prevention, recycling, and federal acquisition across DOI, as required by Executive Order (EO) 13101 - "Greening the Government Through Waste Prevention, Recycling and Federal Acquisition" and Section 6002 entitled "Federal Procurement" of the Resource Conservation and Recovery Act (RCRA).

While this Strategic Plan addresses the requirements of EO 13101, there are additional EOs related to Greening the Government including Executive Order 13123, "Greening the Government Through Energy Efficient Management." Environmental leadership and transportation are topics of draft EOs under consideration. The Department and bureaus intend to continue to work together to synthesize goals and implement strategies for these additional requirements into a single, comprehensive Strategic Plan for Greening the Department of the Interior.

BACKGROUND
Scope
The scope of EO 13101 includes waste prevention, recycling, and "green" procurement activities at federal facilities. The EO directs federal agencies to enhance recycling activities and give preference in purchasing recycled content products (RCPs), environmentally preferable products (EPPs), and biobased content products (BCPs). Through implementation of EO 13101, DOI will continue to be a leader in the area of sustainability.
Building on Accomplishments

Over the past three decades, DOI bureaus have established successful waste prevention and recycling programs and projects, and green acquisition initiatives around the country. The bureaus continue to take steps to prevent pollution and promote the acquisition and use of environmentally preferable products and services in their activities. These projects, often which are undertaken through partnerships with other agencies, state and local governments, and non-governmental organizations, have contributed significantly to DOI greening efforts and have brought the Department and its employees much recognition.

While our efforts to fulfill executive environmental mandates have been significant, we can and must do more. DOI manages and operates hundreds of facilities that provide significant venues for promoting and showcasing the government's commitment to incorporating waste prevention and recycling in its daily operations and use of products made from recovered materials or with less adverse impact on the environment. Furthermore, these efforts help educate the public and foster understanding of and support for these initiatives in our broader society. This educational component connects well with the overall DOI mission of protecting our Nation's natural and cultural resources, and interpreting the significance of those resources for all Americans.

Through its commitment to the vision, goals, and implementation strategies of this Strategic Plan, DOI will not only meet, but surpass the goals and requirements of EO 13101. By doing this, the Department of the Interior will demonstrate that it is the premier environmental and conservation agency within the government.

Opportunities

Each product and service purchased by DOI is a discrete opportunity to move toward more environmentally-sensitive and sustainable facility design and operations. Across DOI, nearly $500 million was spent in fiscal year 1999 on the procurement of supplies, equipment, and facilities maintenance. This represents approximately nine percent of the DOI operations budgets (for the land management bureaus, the amount is as much as 15 percent). The DOI budget for line-item construction (almost $500 million in fiscal year 1999) also represents opportunities for waste prevention and greater utilization of green products. The magnitude of budget in these areas (nearly $1 billion) reflects the volume and scope of activities to be influenced through implementing the strategies discussed below.

OUR GOALS

Waste Prevention and Recycling Goals

DOI will endeavor to minimize the creation of solid waste through waste prevention, and recycling. DOI is committed to creating a culture of waste awareness in all DOI employees who then are motivated to take actions to avoid the generation of waste. Waste not generated is difficult to measure, and, thus, is not included in the goals below. The Department seeks to capture associated benefits from these activities, including: reduced use of landfill space; lower landfill tipping expenses; reuse of valuable commodities; reduced energy consumption; and reduced greenhouse-gas emissions. Specifically, DOI will:

- Divert solid waste from disposal in landfills through recycling at the rate of 40% by the year 2000, 45% by year 2005, and 50% by year 2010. Individual bureau facilities goals must meet applicable state requirements, summarized in Appendix B, if higher. (Note: No base year is required for diversion rate calculation, see Tracking Goals section below.)
• Recycle the following commodities at all facilities unless significant barriers exist (e.g., lack of markets, cost): white paper; mixed paper/newspaper; cardboard; aluminum; plastic (#1 PET and #2 HDPE); glass; pallets; scrap metal; toner cartridges; and, consistent with applicable hazardous waste regulations, fluorescent lamps and ballasts; batteries; used oil, antifreeze, and tires.

DOI Green Procurement and Property Management Goals
The DOI goal is to purchase products that have the highest percentage of recovered materials practicable, considering product price, availability, and performance. DOI will focus this effort particularly on products designated by the Environmental Protection Agency (EPA) in the Comprehensive Procurement Guideline (CPG), summarized in Appendix C. The DOI goal also is to purchase environmentally preferable products and biobased products.

Targeting products and services purchased routinely, DOI commits to reach one-hundred percent compliance with the following goals, and to improve by at least 30% each year until these goals are achieved (FY 2000 becomes baseline):

• Operate all DOI-managed fleet vehicles (including owned and leased) using re-refined oil, retread tires (when replacing tires), and reclaimed engine coolant. (Note: Certain vehicle types will be targeted for retread use when replacing tires as clarified in forthcoming Department guidance.)

• Utilize in the operation of all DOI facilities (including owned and leased space) recycled-content bathroom tissue, paper towels, and plastic trash bags.

• All copy paper used by DOI will contain at least 30% postconsumer material.

• At all DOI facilities, utilize copy paper, bathroom tissue, and paper towels that have been manufactured without the use of chlorine in deinking and bleaching.

• Utilize either recycled content carpet (face fiber or backing) or factory-refurbishable carpet for all new installations in DOI facilities.

• On a pilot basis, utilize biobased, biodegradable lubricating and hydraulic oils in equipment where spillage to the environment might occur (e.g., chain saws, marine outboards, lawn mowers, and snow mobiles).

Factors Affecting Goal Achievement
There are certain factors that may affect achievement of our goals. These factors pose challenges to implementation of the program and are, therefore, appropriate to address in the implementing strategies and action plan. These factors include:

• Resource availability: Funding and other resources will be required for implementation activities, such as guidance-document development, web site enhancement, pilot projects, and training.

• GSA: Assistance and cooperation from GSA will be needed to modify the current maintenance practices applied to vehicles that the Department leases through GSA, and to modify the terms of new and existing building-space leases.

• Commercial vehicle services: To streamline operations and as a pollution prevention strategy, many bureaus have turned to private enterprises to obtain vehicle maintenance services, rather than retain mechanics on staff. When DOI vehicles are serviced by a commercial source, it will be necessary to specify or
otherwise arrange for the use of re-refined oil and reclaimed engine coolant. The cooperation of these service providers will be critical in achieving vehicle-product goals.

- Retread tires: Departmental guidance is needed regarding which vehicle types are appropriate applications for retread tires.

- Training and Awareness: Consistent with acquisition streamlining, more than twenty-thousand credit cards have been issued to DOI purchasers. Achieving the DOI goals for purchasing green products will require comprehensive initiatives to orient credit-card users to these purchasing preferences and provide resources to help them find the preferable products. It is also particularly important to address misperceptions about recycled-content and environmentally-preferable products that may be based on experiences with products early in their development before adequate quality and performance levels were attained.

- Lack of product availability, timely delivery, unreasonable pricing, and poor performance: These are factors external to DOI that may limit DOI’s ability to meet established goals.

- Contracting cycles. Where possible, DOI will approach its contractors and concessioners who operate under existing contracts and request that appropriate modifications be made. This may not always be possible or successful. As these contracts expire, clauses will be added to these contracts, consistent with this Strategic Plan and the mandates of EO 13101.

Note: Diversion rate (in tons) (requires no base year)

Materials Recovered Through Recycling (tons)
Total Waste (landfilled, incinerated, recycled, composted)

Tracking Efforts to Achieve Green Procurement and Property Management Goals
The Office of Acquisition and Property Management (PAM), in cooperation with the Property Management Partnership Group and the Acquisition Management Partnership Group, will develop for FY2000 (revise annually thereafter) and promulgate a survey tool to gather information annually from all bureau facilities. PAM will request that bureaus provide survey data at the end of the fiscal year to determine compliance with the green procurement goals, including: vehicle-related goals (re-refined oil, retread tires, and reclaimed engine coolant); facilities-operations-related goals (bathroom tissue, paper towels, trash bags, copy paper, carpeting, and biobased lubricating oil); and any other purchases of CPG products, EPP, or BP.

Survey data will be validated by information obtained from vendor sources and through the bureau environmental auditing programs. General Services Administration (GSA) and the Government Printing Office (GPO) will be contacted for information regarding paper purchasing. The Defense Logistics Agency will report on...
the DOI purchases of re-refined oil. The auditing program is discussed further below.

**Bureau Goals**

Bureaus are encouraged to augment the DOI goals by adopting additional, more-ambitious goals than those contained in this Strategic Plan.

**Future Goal Development**

The Strategic Plan will be updated periodically when it is appropriate to set new goals due to advances in product performance, improved product pricing, and/or as tracking/reporting systems improve and make it easier to track purchasing (e.g., via credit-card statements).

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**IMPLEMENTATION STRATEGIES AND ACTION PLAN**

The seventeen implementation strategies outlined below frame a coherent program that will lead DOI to further the vision and achieve the Waste Prevention and Recycling Goals and the Green Procurement and Property Management Goals of this Strategic Plan. These strategies are consistent with the executive directives in EO 13101.

With oversight and support from the Interior Management Council, the Greening the Interior Partnership Group shall produce an Action Plan for Greening the Department of the Interior for the purpose of planning and coordinating specific activities that expand upon these identified strategies. The Action Plan will be updated annually.

**Waste Prevention and Recycling Strategies**

1. Develop bureau and facility Waste Prevention and Recycling Programs. *(per Section 705(a)(1) in EO 13101)*

2. Designate bureau and facility Waste Prevention and Recycling Coordinators. *(per Section 705 (a)(2) in EO13101)*

3. Initiate cooperative efforts to recycle among bureau facilities and with other State and local entities within geographical clusters. *(per Section 705 (b) in EO13101)*

4. Allocate to waste prevention and green procurement projects the revenues generated by recycling managed by the General Services Administration, in accordance with Part 3 of the Departmental Manual (515 DM3).

**Green Procurement and Property Management Strategies**

5. Develop policy and guidance on the consideration of environmental factors in acquisition planning. *(per Section 401 in EO 13101)*

6. Update the DOI’s Affirmative Procurement Program policy, and develop bureau Affirmative Procurement Programs and activities. *(per Section 402 in EO 13101)*

7. Develop model contract language for services and goods routinely used throughout the Department which incorporate and specify waste prevention and green procurement.

8. Target projected contracts over $100,000 for incorporation of revised language to implement waste prevention and green procurement. *(per Section 501 in EO 13101)*

9. Develop and disseminate green procurement training materials. *(per Section 801 in EO 13101)*

10. Partner with procurement sources to ensure the products that are sold to DOI comply with RCRA and EO 13101, and support DOI goals.
11. Execute pilot projects to evaluate products for efficacy, environmental benefits, and cost of use.
(per Section 503(b) in EO 13101)

**General Program Strategies**

12. Establish goal tracking and auditing protocols.

13. Establish benchmarks for recognition of facilities showing leadership in DOI by comprehensive adoption of these initiatives.

14. Develop model facilities within each bureau, including the Main Interior Building (MIB), which exemplify sustainable design principles and utilize green construction products.
(per Section 704 in EO 13101)

15. Ensure that building space leased by DOI (or for DOI by GSA) incorporates sustainable design, green products and services, recycling, energy management, and water conservation in building development and operation.
(per Section 702 in EO 13101)

16. Recognize outstanding efforts within the Department to promote mandates of EO 13101.
(per Section 802 in EO 13101)

17. Host “Greening the Interior” work shops to further discourse and understanding of sustainability as it applies to DOI operations.

**MANAGEMENT CONTROLS**

The Strategic Plan and implementation Action Plan will be realized through the dedication of staff and resources to undertake, coordinate, oversee, track, and report on these efforts.

**Interior Management Council**
The Interior Management Council (IMC) will track implementation of the Strategic Plan in all bureaus, in conjunction with the Agency Environmental Executive.

**Budget Guidance**
The Department’s guidance for submission of bureau budgets and five-year budget plans will be amended to instruct bureaus to indicate what funding needs exist to support the activities of this Strategic Plan.

**Greening the Interior Partnership Group**
The Greening the Interior Partnership Group, an intra-bureau group, will coordinate the development and execution of a two-year Action Plan. The Partnership Group will consist of representatives having expertise in property, procurement, facility management, environmental management, and legal affairs. The Director of the Office of Acquisition and Property Management and the Director of the Office of Environmental Policy and Compliance will oversee this group. Following approval of this Strategic Plan, the Greening the Interior Partnership Group will develop a charter for IMC approval; this charter will direct the Partnership Group to expand this Strategic Plan to encompass additional Greening the Government initiatives and goals.

The Greening the Interior Partnership Group will work with the Acquisition Management Partnership Group and the Property Management Partnership Group. These Partnership Groups are professional organizations made up of Departmental (Office of Acquisition and Property Management) and bureau officials responsible for the management of acquisition systems and of real, personal, and museum property.

**Environmental Audit Program**
Bureau environmental auditing programs developed pursuant to Departmental Manual Part 515 Chapter 2 (515 DM 2) will develop protocols to evaluate DOI facilities.
for compliance with Section 6002 of RCRA and for consistency with the Department and bureau goals for recycled-content purchasing, environmentally preferable purchasing, biobased product utilization, and waste prevention. Auditing will particularly focus on recycled content products that EPA has chosen for emphasize in its federal facility enforcement program.

Department and Bureau GPRA Plans
The Department will highlight the Strategic Plan goals in the Department Government Performance and Results Act (GPRA) Strategic Plan.

Reporting to the Federal Environmental Executive
The Department’s Agency Environmental Executive will report annually to the Federal Environmental Executive on progress made in implementation of EO 13101 and toward attainment of goals. The Federal Environmental Executive will report biannually to Congress on the progress made by federal agencies.

AUTHORITIES AND GUIDANCE

In the Resource Conservation and Recovery Act, agencies that purchase products designated by the U.S. Environmental Protection Agency (EPA) are directed to procure such items composed of the highest percentage of recovered materials practicable (unless a decision to not do so is based on a determination that the product is not available within a reasonable period of time, or that the product fails to meet applicable performance standards, or that the product is only available at an unreasonable price).

Under EO 13101, agencies are encouraged to consider purchasing environmentally preferable and biobased products. In addition, Executive Order 13134, “Developing and Promoting Biobased Products and Bioenergy,” also encourages agencies to procure biobased products designated by the U.S. Department of Agriculture (USDA). The citations for the applicable statute, codifying regulations, and guidance follow:

- “Strategic Plan to Implement Executive Order 13101, Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition.” White House Task Force on Recycling, March 13, 1999
- “Final Guidance for Environmentally Preferable Purchasing,” August 20, 1999 (Appendix D summarizes the Guiding Principles and EPP product attributes)
- “Procedures for Submission of Biobased Products for Listing by USDA,” August 13, 1999 (Appendix E lists the proposed product categories)

APENDICES

Appendix A: Definitions
Appendix B: Summary of State Waste Diversion Requirements
Appendix C: Recovered Material Content Products Designated by EPA within the Comprehensive Procurement Guideline
Appendix D: Summary of EPA's Guiding Principles for Environmentally Preferable Purchasing and EPP Product Attributes

Appendix E: USDA's Proposed List of Biobased Product Categories

APPROVALS

Deputy Chief of Staff

Assistant Secretary
Policy, Management and Budget

C O N C U R R E N C E S

Office of Environmental Policy and Compliance

Office of Acquisition and Property Management

National Business Center

Strategic Plan for Greening the Department of the Interior
Through Waste Prevention, Recycling and Federal Acquisition
Strategic Plan for Greening the Department of the Interior
Through Waste Prevention, Recycling and Federal Acquisition
Appendix B:

Forest Service
Sustainable Operations
Forest Service Sustainable Operations

What is a Green Team?

A green team is a group of employees, regardless of discipline or organizational level that facilitates the pragmatic implementation of sustainable operations principles on their work site. In the Forest Service, green teams range from the informal – a few employees working together to increase recycling opportunities for themselves and their community, to the formal – a group specifically chartered by leadership to promote and foster sustainable operations that reduce the unit’s environmental footprint. Successful green teams are very “local or place-based,” and the issues they choose to work on are meaningful to their specific business unit, organization, community and/or geographic location. What is sustainable in one location may be very different in another location because the natural resources, culture, economic situations, and/or opportunities are all different. Many green teams begin as an internal effort and they often grow to include members of the local community or other state, federal, or local agencies so that sustainable operations efforts can become successful on a larger scale (facility-wide, community, or an ecosystem).

Most green teams choose to work across many environmental footprint areas (water conservation, energy conservation/renewable energy, waste prevention/recycling, green purchasing, fleet/transportation, sustainable leadership). However, some green teams have been created with membership across geographic units to specifically foster dialog about the sustainable operations opportunities within a particular topic area such as recreation or energy management. We have a cadre of champions to share information and ideas, and resource materials are available to assist in starting a green team in your location.

The Forest Service currently has 31 active green teams, but this number is growing all the time. Below is a current list of active teams:

- R1, R2, R3, R4, BLM, EPA, RMRS Sustainable Operations Board of Directors
- Region 1 – Northern Region
  - Northern Regional Office
- Region 2 – Rocky Mountain Region
  - Rocky Mountain Region Regional Office
  - Rocky Mountain Region Energy Management Team (USFS, BLM, NREL)
• Greater Yellowstone Coordinating Committee – Sustainable Operations Subcommittee
  • Multi-Regional Green Purchasing Team
  • Bighorn National Forest
  • Medicine Bow Routt National Forest
  • Nebraska National Forest – Bessey Nursery
  • San Juan Public Lands Unit (BLM/USFS)
  • Pagosa Ranger District
  • Pikes Peak Ranger District
  • Sustainable Ops and Recreation

• Region 4 – Intermountain Region
  • Intermountain Regional Office

• Region 5
  • Lassen National Forest

• Region 6 – Pacific Northwest Region
  • Region 6 Sustainability Board
  • Mt. Hood National Forest
  • Siuslaw national Forest
  • Willamette National Forest

• Region 9 – Eastern Region
  • Region 9 Sustainability Board
  • Chippewa National Forest
  • Green Mountain National Forest
  • Superior National Forest

• Region 10 – Alaska Region
  • Tongass National Forest

• Northeastern Area / Northern Research Station
• Pacific Southwest Research Station
• Rocky Mountain Research Station
• Pacific Northwest Station
• International Institute of Tropical Forestry
• International Forestry
• Washington Office Headquarters

Green Team Activities

The activities our green teams work on depend on their priorities and opportunities. Activities range from encouraging people to turn off lights and switch off PC monitors to measuring paper use and seeing if it can be reduced over a time period to conducting onsite energy audits. It could also mean setting out a recycling box and having the team empty it, encouraging people to bring in mugs instead of using plastic cups or organizing bulk buying of compact fluorescent light bulbs for people to use at home. There is tremendous opportunity to make a difference!

A Few Forest Service Green Team Success Stories
The Pike-San Isabel National Forest Pikes Peak Ranger District’s Green Team led the district’s reduction of water use by 22 percent, electricity use by 7 percent and its natural gas use by 26 percent.

The Greater Yellowstone Sustainable Operations Subcommittee was established to work towards implementing sustainable operations efforts across 14 million acres of public land in the Greater Yellowstone Ecosystem. Six National Forests, two National Parks and two U.S. Fish and Wildlife management units are represented on this committee. Initial areas of focus include expansion of propane cylinder recycling, fleet sharing and shared green purchasing.

The headquarters of the International Institute of Tropical Forestry in Puerto Rico is a historic building which is being restored and upgraded to achieve LEED certification. LEED is a certification program for buildings which achieve significant reductions in energy, water and other resource consumption as compared to standard building practices. The headquarters will be the first LEED-certified building in Puerto Rico.

The Pacific Southwest Research Station’s Center for Urban Forest Research has been testing and demonstrating a “sustainable garden” since 1999. This 1,000-square-foot garden is located outside the Center’s entrance on land that was once a parking lot. The garden employs a variety of mechanisms that reduce water use and energy use and encourages the design of environmentally-friendly landscaping.

Region 5 and the Pacific Southwest Research Station established a ‘green’ microgrant program. The station funded seven microgrants, each at a maximum of $2,000. Region 5 funded 13 microgrants, each at a maximum of $1,500. Green microgrants are fairly modest Forest Service funds that are awarded to stimulate grassroots sustainable efforts on the ground. The microgrant approach enables Forest Service employees to decide which sustainable activities are needed most at their unit and apply for funding for those activities.

Six Rivers National Forest recycles paper, cardboard, aluminum, plastic, glass, toner cartridges, and batteries at all of its ranger districts and the supervisor’s office. At the Smith River NRA Visitor Center, paper that has been printed on one side is cut to tablet size and the good side is used to take memos at the front desk.

Grey Towers National Historic Landmark negotiated an agreement with the U.S. Park Service to retain a Ford Thinkmobile on loan. The Thinkmobile is an electric four-passenger vehicle with no tailpipe emissions.

The International Forestry Green Team hosted a Sustainable Operations/Ecosystem Services Cap and Trade Game as a way for Forest Services employees to think about the types of activities they could implement to reduce their unit’s environmental footprint including biomass, energy, biofuels, etc.

Several teams have produced reports describing environmental footprint on a regional and local level. These include Region 2, Region 5 and the Pacific Southwest and the Pacific Northwest Research Stations. These reports have provided a guidepost for the
development of the national environmental footprint. A national environmental footprint report for the Forest Service was just released on September 20, 2007.

- **Washington Office Headquarters Team** installed a solar trash compactor at the southwest corner of its building. This is a high use/high trash collection area and the compactor is yielding significant collection savings as well as a plastics recycling opportunity. The team also purchased two additional compactors for USDA installation and use.
### WASHINGTON OFFICE GREEN TEAM INITIAL CHALLENGE

<table>
<thead>
<tr>
<th>Footprint Area</th>
<th>Goals/ActionsYou Can Take</th>
</tr>
</thead>
</table>
| Energy Conservation| **Goal 1. Reduce energy use by 5 percent in the Washington Office for FY 08.**  
• Turn off lights when not needed  
• Turn off computer, monitor, and printer at the end of the day  
• Minimize use of personal appliances; use communal coffee pots, refrigerators, and printers |
| Recycling          | **Goal 2. Recycle 100 percent of the collectable waste products in Washington Office.**  
• Recycle paper, cardboard, bottles, cans, and printer/toner cartridges, as collected in office building  
• Use duplex printing; set as the default on your computer and printer  
• Use 100-percent recycled copy paper |
| Green Purchasing   | **Goal 3. Purchase sustainable products for the Washington Office.**  
• Purchase 100-percent recycled copy paper  
• Purchase environmentally friendly cleaning products  
• Look for “green options” when purchasing office supplies |
| Leadership         | **Goal 4. Foster an office environment that encourages and rewards creativity and innovation for sustainable operations.**  
• Become a member of the WO Green Team.  
• Promote “green ideas” in the WO.  
• Reward “green initiatives” in the WO. |
1. SOLAR GARBAGE COMPACTOR (BIG BELLY) - Done
   • Installed 1 in Yates Building
   • Provided 2 for USDA Whitten & South Buildings.

2. EXPAND RECYCLING – In Progress
   • Partnering with USDA - more containers, expanding collectables, weighing results
   • Relabeling containers to update what can be collected
   • Promoting recycling in WO Green Challenge

3. COMPUTERS / PRINTERS / COPYING – In Progress
   • Consulting with IRM on the possibility of setting the default for printers/copiers
doing printing.
   • Promoting better energy use through WO Green Challenge

4. 100% RECYCLED PAPER – Done, Ongoing
   • Copy paper will be 100% recycled starting FY08

5. COMMUNICATION/ AWARENESS CAMPAIGN – In Progress
   • FS Wiki-Site – WO Green Team information
   • WO Green Team Charter
   • WO Green Team banner for identification
   • Creating a communication forum with staff representatives on WO Green Team

6. WO GREEN TEAM CHALLENGE – In Progress
   • Rollout at WODG September 24, 2007
   • Kick-off at WO Green Team meeting October 3, 2007

7. SUSTAINABILITY OPERATIONS SUMMIT – In Progress
   • Developing a Booth
   • Sharing WO Green Team Challenge/ Energy Survey results

8. USDA BENEFICIAL LANDSCAPING PROJECT – In Progress
   • Partnership with USDA documented in an MOU
   • Providing landscape architect to lead the effort
   • Providing additional expertise on the team such as botanical/horticultural
Appendix C:

Request – for – Information

(RFI)
Request – for – Information (RFI) Regarding Collection / Processing / Marketing Services for Recyclable Materials

Issued by

the Southern Nevada Agency Partnership (SNAP) and the Public Lands Institute (PLI), University of Nevada / Las Vegas (UNLV)

SNAP / PLI Contact Person

Beth Barrie, PLI / UNLV
702 / 895 – 5837
elizabeth.barrie@unlv.edu

Responses Due

5 p.m., June 15, 2009 to Beth Barrie

printed on recycled – content paper
PLEASE NOTE

Address all comments and inquiries concerning this RFI to:

Ms. Elizabeth Barrie, Ph.D.
Project Manager, Interagency Volunteer Program
Public Lands Institute
University of Nevada, Las Vegas
RAJ 280, Box 452040
4505 S. Maryland Parkway
Las Vegas, Nevada 89154 – 2040

702 / 895 – 5837
elizabeth.barrie@unlv.edu

Responses to this RFI should be directed to Ms. Barrie as well. The deadline for receipt of responses in either hard copy or electronic format is 5 p.m., June 15, 2009. Only one copy of the response is required.

1.0 Introduction and Background

1.1 Involved Agencies / Entities

Four federal agencies – National Park Service (NPS), U.S. Forest Service (USFS), Bureau of Land Management (BLM), Fish and Wildlife Service (FWS) – maintain offices, facilities, operations, and recreational land in Clark County. They have formed the Southern Nevada Agency Partnership (SNAP) in association with the Public Lands Institute (PLI) at UNLV. The USFS is part of the Department of Agriculture (DOA) while the other three agencies are part of the Department of Interior (DOI).

The Public Lands Institute fosters an integrated strategy toward the management and stewardship of public land in Southern Nevada by implementing research, education, and community engagement projects. These projects often involve public / private partnerships and interagency collaboration between the NPS, USFS, BLM, FWS, local municipalities, and other government agencies. There are 7 million acres of public land in Southern Nevada under the jurisdiction of the four SNAP agencies encompassing 8 conservation / recreation areas and 19 wilderness areas.
Central offices and an operations / maintenance / warehouse area for the USFS, BLM, and FWS are located in adjacent buildings in Las Vegas at 4701 N. Torrey Pines Drive. This is approximately 11 miles one-way from the intersection of Tropicana Avenue and Las Vegas Boulevard. The NPS central office is in Boulder City at 601 Nevada Way. This is approximately 25 miles one-way from the intersection of Tropicana Avenue and Las Vegas Boulevard. The NPS operations / maintenance / warehouse area is also in Boulder City but at a separate location near the central office. The address for the NPS operations / maintenance / warehouse area is 101 Katzenbach Drive in Boulder City.

Recreational land maintained by the four SNAP agencies is as follows:

- **NPS – Lake Mead National Recreation Area (Lake Mead NRA).** Part of Lake Mead NRA extends into Arizona. The services requested in this RFI are intended for the entire Lake Mead NRA which covers approximately 1.5 million acres. There are nine “developed” portions of Lake Mead NRA – Boulder Beach, Callville Bay, Cottonwood Cove, Echo Bay, Katherine Landing, Las Vegas Bay, Overton Beach, Temple Bar, and Willow Beach.

- **USFS – Spring Mountain National Recreation Area (Spring Mountain NRA) in the Humboldt–Toiyabe National Forest.** The Spring Mountain NRA is located northwest of Las Vegas off of U.S. Highway 95. The two main areas of the Spring Mountain NRA are Lee Canyon and Kyle Canyon. Lee Canyon is along State Route 156 about 18 miles from U.S. Highway 95 while Kyle Canyon is along State Route 157 about 17 miles from U.S. Highway 95. These two state roads are joined by State Route 158.

- **BLM – Red Rock National Conservation Area (Red Rock NCA) located directly west of Las Vegas off of State Route 159.**

- **FWS – Desert National Wildlife Refuge (DNWR), located approximately 36 miles northwest of Las Vegas off of U.S. Highway 95 near Cactus Springs.**

Maps and other literature about the recreational lands maintained by the respective agencies may be obtained from Beth Barrie, the SNAP / PLI contact person noted in this RFI. Site visits / tours may be arranged through her also.

### 1.2 Federal Guidance and Policy Regarding Waste Diversion

Executive Order 13101 – *Greening the Government Through Waste Prevention, Recycling and Federal Acquisition* (1998) requires the director of each executive agency to incorporate waste prevention and recycling in the agency’s daily operations. In addition, each agency must establish a goal for waste prevention / recycling or an overall goal for waste diversion to be achieved by January 1, 2000 and long–term goals to be achieved by the years 2005 and 2010.
The Department of the Interior has prepared a Strategic Plan for Greening the Department of the Interior Through Waste Prevention, Recycling and Federal Acquisition (2000). This Plan sets target goals for diversion of waste from disposal by recycling for DOI offices, facilities, operations, and recreational land at the rate of 40% by the year 2000, 45% by the year 2005, and 50% by the year 2010. Materials identified for recycling unless significant barriers are determined to exist (such as lack of markets and/or cost) are: white paper, mixed paper, newspaper, cardboard, aluminum, plastic (#1 PET, #2 HDPE), glass, pallets, scrap metal, toner cartridges, and consistent with applicable hazardous waste regulations, fluorescent lamps and ballasts, batteries, used oil, antifreeze and tires.

The Department of Agriculture is pursuing a variety of sustainability initiatives in its operations. Within the DOA's Waste Prevention and Recycling Footprint Focus Area the following Pollution Prevention goal has been defined: Achieve 40% waste diversion by 2010 and exceed sustainable waste prevention and recycling business practices throughout all Forest Service program activities (http://www.fs.fed.us/sustainableoperations/foot Area-waste-prevention-recycling.shtml).

2.0 Requested Recycling Services

2.1 Approach

In order to meet and possibly go beyond the diversion goals noted in Section 1.2, SNAP / PLI seek to upgrade and expand present recycling efforts with the assistance of a private company located in Clark County that has demonstrated expertise in the collection, processing, and marketing of recyclable materials. SNAP / PLI prefer to deal with one primary vendor or service provider for all requested recycling services at all the various agency sites noted in this RFI. That preference does not preclude the prime contractor from using subcontractors.

The SNAP recycling program would consist of two basic elements. These are:

1. Internal recycling at the offices, facilities and operations of the four agencies – the Las Vegas inter-agency location and NPS headquarters plus the maintenance/warehouse complex in Boulder City.

2. External recycling at areas where the public visits – Lake Mead NRA, Spring Mountain NRA, Red Rock Canyon NCA, and the DNWR.

Internal recycling is established. For example, there is recovery of office paper at the Las Vegas inter-agency location with employees putting material into seven 65 gallon carts in back of the main building. The current recycling vendor is Republic Services. The Lake Mead NRA Solid Waste Report for Fiscal Year
2007 (October 2006 to September 2007) list 30 different materials that are either reused or recycled. The current recycling vendor is Boulder City Disposal.

For internal recycling, the selected service provider will review with SNAP / PLI recycling procedures and storage containers presently in place to determine if changes are needed or desirable. Based on the revised number, size, locations, and collection frequency of these containers a service fee (or fees) will be negotiated.

For visitor areas, the need is for a standardized method of offering the opportunity to recycle. Given the remoteness of some locales and transport distances, the required vendor services must be simple and cost–effective. The way to accomplish this is for SNAP to purchase 30 cubic yard roll–off containers for central storage of commingled recyclables. Commingling makes recycling more convenient. Agency employees will move materials from small–scale recycling stations and collection points to the roll–offs. The vendor would provide an on–call transport / recycling service by removing the full roll–offs and replacing them with an empty one also bought by SNAP.

### 2.2 Targeted Materials

The targeted recyclable materials are as follows:

- cardboard
- brown paper bags
- newspapers
- magazines
- catalogues
- white office paper
- colored office paper
- phone books
- paperboard such as cereal boxes, cracker boxes, and paper towel rolls
- junk mail
- aluminum cans
- tin / steel cans
- plastic bottles / jugs # 1 and # 2

### 2.3 Summary

- The inter–agency recycling program discussed in this RFI is a joint, cooperative activity conducted by the four SNAP agencies in coordination and cooperation with the UNLV Public Lands Institute.
• It is the intention of SNAP / PLI through this RFI to upgrade existing recycling activities at agency offices, facilities, and operations and to offer recycling opportunities in visitor areas administered by the agencies.

• Commingling of materials is preferred since this increases the convenience of recycling participation, handling, and storage by employees and visitors. SNAP / PLI understand that commingling places greater responsibility on the service provider for separating and processing materials into marketable commodities.

• SNAP / PLI will purchase 30 cubic yard roll–off containers for storage of recyclables. Smaller containers for intermediate storage of materials at offices, facilities, and operations may also be purchased depending on discussions with the selected service provider.

• The vendor does not need to return a roll–off immediately because each site will have a second, back–up container.

• The second or replacement roll–off is also obtained by SNAP / PLI.

• SNAP / PLI need a vendor to provide on–call container transport and materials recycling services.

• Employees of the SNAP agencies and / or volunteers connected with each agency will monitor the roll–off containers. They will be secure and not just left open to the public.

• The agencies will be responsible for program organization, promotion / education, and calling the vendor for pickup.

• The agencies would like the vendor to provide regular (at least quarterly) reports on the quantity of materials recovered from each participating site if feasible. This information can be based on actual weights recorded at the vendor’s facility, on standardized estimates derived from vendor experience, or both.

3.0 Directions for Responding

• Identify the location of your facility where materials will be separated, processed, and stored prior to sale.

• Identify the name, title, phone number, and e–mail address for your designated contact person.
• Provide a brief description of your company, its services, and length of time operating in Clark County. Existing company literature, brochures and / or a Web page address are acceptable.

• Give contact information for a minimum of three institutions or businesses in Clark County where you have been providing recycling collection, processing, and marketing services for at least a year.

• Fill in and return the table titled Price Estimates under Section 5 below. SNAP / PLI understand service fees are subject to change in the future and may be valid only at the time of submission.

• SNAP / PLI would welcome comments on the contents of this RFI and suggested modifications to the recycling program approach outlined in it.

4.0 Evaluation and Selection

SNAP / PLI will review the information submitted by recycling service providers in response to this RFI. SNAP / PLI representatives may desire to observe operations at your company’s local materials processing and storage facility. Additional discussions and negotiations about service terms, conditions, and fees will be undertaken with one or more prospective vendors. It is the intention of SNAP / PLI to enter into a contractual arrangement with a vendor to assure delivery of the defined services and to clarify roles / responsibilities of the involved parties.
## 5.0 Price Estimates

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A / Empty recycling storage containers located outside inter-agency headquarters in Las Vegas (assume 65 gallon carts)</td>
<td>$ per pickup</td>
</tr>
<tr>
<td>B / Empty recycling storage containers located outside NPS headquarters in Boulder City (assume 65 gallon carts)</td>
<td>$ per pickup</td>
</tr>
<tr>
<td>C / Unload / return 30 cubic yard roll–off box from NPS operations / maintenance / warehouse area in Boulder City</td>
<td>$ per pickup</td>
</tr>
<tr>
<td>D / Unload / return 30 cubic yard roll–off box from Spring Mountain NRA</td>
<td>$ per pickup</td>
</tr>
<tr>
<td>E / Unload / return 30 cubic yard roll–off box from Red Rock Canyon NCA</td>
<td>$ per pickup</td>
</tr>
<tr>
<td>F / Unload / return 30 cubic yard roll–off box from Desert National Wildlife Refuge</td>
<td>$ per pickup</td>
</tr>
<tr>
<td>G / Rental fee for 30 cubic yard roll–off box</td>
<td>$ per day, week, or month (indicate)</td>
</tr>
</tbody>
</table>
Appendix D:

Auburn Fibers
Response to RFI
Ms. Elizabeth Barrie, Ph.D.
Project Manager, Interagency Volunteer Program
Public Lands Institute
University of Nevada, Las Vegas
RAJ 280, Box 452040
4505 S Maryland Parkway
Las Vegas, Nevada 89154-2040

Collection / Processing / Marketing Services
For Recyclable Material

Processing Facility: Auburn Fibers has a 15,000 sq ft fully enclosed Facility located at 3585 W Diablo Dr in Las Vegas

Designated Contacts:
- Route Supervisor: Patrick L Riley, Cell. 643-8411, 491-3971
- Educational support: Kyle Duncombe, Cell. 612-6510
- Contract Manager: Wayde W Block, Cell. 643-8411

Brief Description: Auburn Fibers has owned and operated a recycling facility in Clark County, Las Vegas since 1999 (10 yrs). Permitted by SNHD to Process All targeted material requested. With our team's support, you can be assured on Achieving Zero-Waste tolerance. Offering all types of containers and equipment For recycling, compactors, balers, roll-off, frontload, flatbeds, mobile shredding.
References:

**Carina Mahon**  
Facility Environmental Management, Inc  
473 Dunham Road, Suite 2  
St. Charles, IL 60174  
(630) 377-0553  
(630) 377-0653 Fax

Recycling Services for all Walgreen’s (47) stores in Clark County  
Cardboard, Balers and Compactors  
Single Stream Recycling  
9-years

**Chuck Carroccetto**  
Vender Relations Manager  
OAKLEAF  
One OAKLEAF Center  
800 Connecticut Blvd.  
East Hartford, 06108  
(817) 468-4102  Direct  
(817) 468-4152  Fax

Recycling Services For all CVS Pharmacy’s (20) stores in Clark County  
Cardboard, Balers and Compactors  
Plastic and cardboard  
8-years

**Rick Hoshal, CRM**  
Records and Information Manager  
STATION CASINOS Inc.  
2411 W Sahara Avenue  
Las Vegas, Nevada 89102  
(702) 406-4924  Direct  
(702) 495-3768  Fax

Recycling Services for all STATION CASINO Property’s (18) locations in Clark County.  
On-Site Mobile Shredding Collection  
200 plus 65-gallon totes pick up weekly  
Paper and some Cardboard  
1.5- years
Charles H. Harrison  
C.O.O.  
Boulder City Hospital  
901 Adams  
Boulder City, Nevada 89005  
(702) 293-4111  

Recycling Services for Hospital, On-Site Mobile Shredding (20) containers.  
1.5-years

Eric Maddox  
St. Jude’s Ranch  
100 Saint Jude Street  
P.O. Box 60100  
Boulder City, NV. 89006  
(702) 293-7578 Direct  
(702) 294-7174 Fax  

Recycling Services for Ranch, On-Site Mobile Shredding, Cardboard and Paper  
1.5 years / 3-years prior

Skip Spilman  
Energy Conservation Specialist  
City of Boulder City of Boulder  
401 California Avenue  
Boulder City, NV 89005  
(702) 293-9200 Office  
(702) 293-9229 Direct  

Recycling Services for city office buildings On-Site Mobile Shredding  
6-months

Auburn Fibers Collects all recycling from all our customers with our own trucks/containers, we then transport to our facility, sort grades of recyclables, and in turn we then process (bale) and ship to long term mill relationships such as Georgia Pacific Domestically.
Price Estimates:

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>$5.00 per pickup</td>
</tr>
<tr>
<td>B</td>
<td>$5.00 per pickup</td>
</tr>
<tr>
<td>C Nevada Side</td>
<td>$100.00 per pickup</td>
</tr>
<tr>
<td>C Willow Beach-Temple Bar</td>
<td>$175.00 per pickup</td>
</tr>
<tr>
<td>C Cotton Wood-Katherine landing</td>
<td>$275.00 per pickup</td>
</tr>
<tr>
<td>D</td>
<td>$250.00 per pickup</td>
</tr>
<tr>
<td>E</td>
<td>$200.00 per pickup</td>
</tr>
<tr>
<td>F</td>
<td>$275.00 per pickup</td>
</tr>
<tr>
<td>G Daily</td>
<td>$10.00 per day</td>
</tr>
<tr>
<td>G Weekly</td>
<td>$75.00 per week</td>
</tr>
<tr>
<td>G Monthly</td>
<td>$130.00 per month</td>
</tr>
</tbody>
</table>

Currently Auburn Fibers has recycling already in place with 3- of Lake Mead concessionaires, and do recycle all items mentioned. We also provide recycling services for the City of Boulder City offices.

Best regards and I look forward in working with you on this project.

Wayde W Block

Auburn Fibers
Owner
Appendix E:

Secured Fibers
Response to RFI
Request-for-Information (RFI)

Regarding Collection / Processing / Marketing Services for Recyclable Materials

Location of facility where materials will be separated, processed and stored prior to the sale of the materials.

Secured Fibres
4751 Vandenberg Drive
North Las Vegas, NV 89081

Designated contact:

James Kaup, President
Phone number-(702) 643-5718
E-mail: address-securedfibres@embarqmail.com

Secured Fibres is a full service shredding and recycling company that has served the southern Nevada area since 1998. We are locally owned, with over 50 years of combined experience.

Secured Fibres is a Nevada Corporation, permitted by the City of North Las Vegas as a Recycling Facility and permitted by Southern Nevada Health District as a Recycling Facility. Secured Fibres has been operating from our present location since 2003.

Secured Fibres operates at the above address, with 28,000 sq. ft. inside baling/storage area and approximately 2 acres of outside baling area. Secured Fibres operates 5 frontload trucks, 3 roll-off trucks, 4 box vans, 2 semi-tractors and 7 semi-trailers. Further information can be obtained on Web page: www.sfibres.com

Contact information:

Las Vegas Review Journal
Contact: Carmine Maffia-(702)383-0212

St Rose Dominican Hospital
Contact: Rebecca Koshnick-(702)616-5054

Cashman Equipment Company
Contact: Nancy Zwijac-(702)633-4691
Secured Fibres is serving over 1,000 locations with all office paper collection, a combination of office collection and roll-off service, front load service co-mingled (mixed recyclable). Secured Fibres is presently serving Cottonwood Cove Marina with a co-mingle collection similar to the collection that has been discussed in this request.

Secured Fibres is presently collecting the materials in a similar manner as described for the office recycling at the Las Vegas inter-agency location. Without further inspection of each location, it is at this time to hard to define the type of collection or if a service fee would need to be charged. For the visitor areas, Secured Fibres would be capable of handling the remote locations. The purchase of the collection equipment by SNAP/PLI would definitely reduce the cost of the pulls.

The recyclable materials as described are acceptable as a co-mingled collection.

### 5.0 Price Estimates

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A / Empty recycling storage containers located outside inter-agency headquarters in Las Vegas (assume 65 gallon carts)</td>
<td>$30.00</td>
</tr>
<tr>
<td>B / Empty recycling storage containers located outside NPS headquarters in Boulder City (assume 65 gallon carts)</td>
<td>$35.00</td>
</tr>
<tr>
<td>C / Unload / return 30 cubic yard roll-off box from NPS operations / maintenance / warehouse area in Boulder City</td>
<td>$125.00</td>
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<tr>
<td>D / Unload / return 30 cubic yard roll-off box from Spring Mountain NRA</td>
<td>$175.00</td>
</tr>
<tr>
<td>E / Unload / return 30 cubic yard roll-off box from Red Rock NCA</td>
<td>$125.00</td>
</tr>
<tr>
<td>F / Unload / return 30 cubic yard roll-off from Desert National Wildlife Refuge</td>
<td>$250.00</td>
</tr>
<tr>
<td>G / Rental fee for 30 cubic yard roll-off box</td>
<td>$175.00 per month</td>
</tr>
</tbody>
</table>
Secured Fibres thanks SNAP / PLI for the opportunity to respond to this request. Should you have any further questions, please do not hesitate to call me.

Respectfully Yours,

[Signature]

James [Redacted]
Appendix F:

Evergreen Recycling
Response to RFI
Re: RFI for recycling collection and processing, SNAP, PLI, UNLV.

Evergreen Recycling is proud to offer the following response to the request for information regarding Collection/Processing/Marketing of recyclable materials generated by SNAP agencies in Southern Nevada. Evergreen Recycling operates the first licensed Material Recovery Facility (MRF) in Las Vegas and is a proven industry innovator and leader in marketing and processing of recyclables.

Evergreen Recycling was founded on April 15th 1997 with the intent to provide much needed expansion of recycling infrastructure in Southern Nevada. The goal of expanding infrastructure through increasing collection and processing capacity in addition to recyclable market development was dramatically increased with the opening of the Evergreen Recycling MRF on August 20th 2007. The $15,000,000 investment in Clark County has expanded the types and volumes of material that is recycled and has created 80+ jobs.

Evergreen Recycling operates a 15 truck collection fleet and all material is processed at our MRF located in Las Vegas at 5491 Accurate Drive. The MRF weighs and tracks all material that is received, processed and shipped. Material that is prepared for market is densified and shipped in the least number of truck loads as possible to minimize both the cost and carbon footprint of transportation. Types of material that are prepared for market but not yet in the minimum quantity needed for transportation to market is stored on site where Evergreen has in excess of 40,000 cubic yards of storage space.
The recycling program as described in the RFI will blossom in partnership with Evergreen Recycling as our facility will allow SNAP to recycle the most types of material possible. The material stream may include all types of recyclables generated in offices and may also include all types of construction and renovation debris. The accepted material stream includes all types of ferrous, and non ferrous metals, all plastics #1 through #7, and all types of paper. Also included are wood, drywall, concrete, and several other types of material. With over 125,000 tons of material collected and processed in 2008, Evergreen was able to recycle 90% of what was collected.

The following businesses are examples of proven programs that Evergreen has partnered with to maximize land-fill diversion for periods of at least one year.

- Aristocrat Technologies, Ron Kirk, Manager EP, EH&S and Facilities, 702/270-1270
- Lexus of Las Vegas, Bill O’Connor, Facility Director, 702/942-6600
- City Center, Katarina Tesarova, Senior Project Manager, 702/590-5580

In addition to these ongoing programs Evergreen Recycling was proud to be part of a recent collection to facilitate compost recycling of biomass off of Mt Charleston for the Nevada Fire Safety Council in cooperation with the U.S. Forest Service, Bureau of Land Management and the Wood Utilization Manager of the Business Environmental Program in the Small Business Development Center of the University of Nevada-Reno, Dusty Moller, 702/866-5962.

Price Estimates are charted on the next page.
<table>
<thead>
<tr>
<th>Service Category</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A / Empty recycling storage containers located outside inter–agency headquarters in Las Vegas (assume 65 gallon carts) <em><strong>Exchange 65/96 gallon carts</strong></em></td>
<td>$ 375</td>
</tr>
<tr>
<td>B / Empty recycling storage containers located outside NPS headquarters in Boulder City (assume 65 gallon carts) <em><strong>Exchange 65/96 gallon carts</strong></em></td>
<td>$ 575</td>
</tr>
<tr>
<td>C / Unload / return 30 cubic yard roll–off box from NPS operations / maintenance / warehouse area in Boulder City</td>
<td>$ 525</td>
</tr>
<tr>
<td>D / Unload / return 30 cubic yard roll–off box from Spring Mountain NRA</td>
<td>Kyle Canyon $ 525  Lee Canyon $ 750</td>
</tr>
<tr>
<td>E / Unload / return 30 cubic yard roll–off box from Red Rock NCA</td>
<td>$ 315</td>
</tr>
<tr>
<td>F / Unload / return 30 cubic yard roll–off from Desert National Wildlife Refuge</td>
<td>$ 750</td>
</tr>
<tr>
<td>G / Rental fee for 30 cubic yard roll–off box</td>
<td>$ 0</td>
</tr>
</tbody>
</table>
Evergreen Recycling offers these few suggestions to make the program more economical. Purchase two sets of carts for cart-only collection locations to streamline collection methods by exchanging carts. Use of 96 gallon carts may also reduce collection frequency. Locations B and C may be in close enough proximity to allow for a single collection point by roll-off from location C. It is not necessary to purchase roll-off containers as Evergreen Recycling will supply these free of charge for the duration of the service period.

Evergreen Recycling offers guided tours of the MRF to anyone interested in seeing recycling in action. A virtual tour and more company info may be obtained by visiting our website www.evergreenlv.com.

We thank you for the opportunity to respond to this RFI and will avail ourselves to any further inquiries for information.

With best regards I am,

Matthew Heaton
General Manager
Evergreen Recycling
702/646-1446 o
702/651-8101 f
Matt@evergreenlv.com