

## **SNL INFRASTRUCTURE PROJECTS RECYCLING PROCEDURES**

### **1.0 INFRASTRUCTURE PROJECT RECYCLING REQUIREMENTS**

1A Common recyclable materials generated by infrastructure projects include concrete and asphalt debris, while other materials such as scrap metal may be generated depending on the scope of work involved. Recycling requirements for infrastructure projects will be determined on a project-specific basis. Truck-load or roll-off container quantities of any one recyclable material shall follow the procedures defined in this Attachment. Contact Sandia Pollution Prevention for assistance with recycling instructions associated with Infrastructure Projects.

### **2.0 CONCRETE and ASPHALT RECYCLING**

2A Follow the guidance on Concrete and Asphalt recovery and segregation provided in Section 4.0 of this Attachment. This guidance is necessary to assure the segregation of concrete and asphalt materials acceptable for recycling at SNL's Concrete and Asphalt Recycling Center. The contractor will be responsible for the removal of all unacceptable materials delivered to the Concrete and Asphalt Recycling Center.

2B Deliver acceptable concrete and asphalt materials to the Concrete and Asphalt Recycling Area. The south gate of Sandia's Borrow Pit Area is dedicated for drop-off of concrete and asphalt material. The Concrete and Asphalt Recycling Center contains drop-off zones for reinforced concrete, un-reinforced concrete and asphalt materials as indicated by signage at the site. Section 5.0 of this Attachment contains a map showing the location of Borrow Pit Site. Section 6.0 of this Attachment shows the drop-off zones within the Concrete and Asphalt Recycling Center.

2C Access to the Concrete and Asphalt (C/A) Recycle Center is through a locked gate (south gate of Borrow Pit Area). A key to the south gate is available from the assigned civil construction observer and must be accounted for at all times. The gate will be shut and locked after each delivery to the Concrete and Asphalt Recycle Center. Return the key to the issuer upon project completion.

2D Weigh each load of concrete and asphalt material delivered to Sandia's Concrete and Asphalt Recycling Area. Load weights will be obtained using Sandia's truck scale located at the Solid Waste Transfer Facility, Building 967. Section 7.0 of this Attachment contains the directions to the truck scale as well as the procedure for use of the truck scale.

2E Weight tickets will be collected and maintained by the contractor project manager or site supervisor. A drop-off log will be maintained by the contractor project manager or site supervisor, using the form provided in Section 8.0 of this Attachment, to record the weight of each delivery to the Concrete and Asphalt Recycling Area.

### 3.0 OTHER RECYCLABLE MATERIALS

- 3A Other recyclable materials may be generated by infrastructure projects, such as scrap metal, depending on the work scope involved. Weight tickets for truck-load or roll-off container quantities of other materials recycled as part of this work will also be obtained and recorded on the drop-off log, as appropriate. Contact Sandia Pollution Prevention (P2) for assistance with recycling any other materials associated with Infrastructure Projects.

### 4.0 CONCRETE/ASPHALT RECOVERY AND SEGREGATION

#### **Understand what Concrete and Asphalt debris can be recycled**

The most common source of concrete debris generated at new building construction sites is “washout” from trucks that deliver concrete to the project site. Infrastructure projects typically generate asphalt debris when disturbing roadways and parking lots, and concrete debris when removing curb and gutter. In some cases, reinforced concrete debris from building foundations and slabs are generated by mechanical equipment retrofit projects or building modifications. All these sources of concrete and asphalt debris are considered acceptable for recycling. Basically, any concrete and asphalt debris that is free of contamination (see below) is acceptable for recycling at the Concrete and Asphalt Recycling Area.

#### **Understand What Contaminants are Unacceptable in Concrete and Asphalt**

The following items must be separated from concrete and asphalt debris:

- General construction waste, such as wood, wallboard, pipe, cardboard, insulation, fixtures, glass, sandbags, plastic, etc.
- All expansion joint materials in curb and gutter, slabs and foundations.
- Plastic sheeting of any kind, such as caution tape, washout pit liner material, landscape underlayment.
- Landscaping materials such as weed fabric.
- General trash (soda cans or plastic bottles, food waste, etc.).

These materials must be separated and disposed as general construction waste or otherwise removed prior to loading concrete and asphalt for transport to Sandia’s Concrete and Asphalt Recycling Area. These materials are **NOT** acceptable at Sandia’s Concrete and Asphalt Recycling Area.

*Note that minor amounts of dirt, rock and gravel are acceptable.*

#### **Understand Separation of Concrete and Asphalt**

Sandia’s Concrete and Asphalt Recycling Area has three specific drop-off zones for asphalt, un-reinforced concrete, and reinforced concrete. Every reasonable effort shall be made to deliver concrete and asphalt materials separated according to these three categories. In the event a mixed load concrete and/or concrete and

asphalt is unavoidable, the mixed load shall be placed in the location of material constituting the largest quantity of material. For example, a mixed load of predominantly asphalt and a lesser amount of un-reinforced concrete shall be delivered to the asphalt material pile. Any mixed amount containing reinforced concrete shall be placed in the reinforced concrete pile.

**NOTE:** *In the event contamination can not be separated from a load of concrete and/or asphalt material, the entire load must be disposed as general construction waste.*

*Contact Sandia's Pollution Prevention Staff representative (Doug Vetter, 284-3210) for additional assistance regarding concrete and asphalt recycling instructions, questions, or problems.*

## **5.0 LOCATION MAP FOR CONCRETE AND ASPHALT RECYCLE CENTER**

Obtain from PM or from P2 Program contact.

## **6.0 REINFORCED, UN-REINFORCED CONCRETE AND ASPHALT DROP-OFF ZONE LOCATIONS**

Follow instructions on signs posted at C/A recycling center.

## **7.0 SNL TRUCK SCALE LOCATION AND USE**

**7A** Truck scale available from 7:30 am to 4:00 pm Monday – Friday.

**7B** Directions to SNL Truck Scale:

- From Hardin Blvd, travel south on 9<sup>th</sup> Street.
- After approximately 3/10 of a mile, turn east on East Ordinance Rd.
- After approximately 1/10 of a mile, turn north into the rear entrance for Bldg 967, Solid Waste Transfer Facility.
- The truck scale is located along the southeast fence-line of the SWTF.



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- 7C** Procedure to obtain documentation of vehicle weight
- Upon passing through the rear entrance to the SWTF, proceed slowly onto the truck scale platform.
  - Gently bring the vehicle to a stop once all tires are on the truck scale platform.
  - Upon securing the vehicle, exit the vehicle and proceed to the truck scale house.
  - Observe the reading on the “Fairbanks” scale read-out for credibility of weight indicated. If a negative number or otherwise non-practical weight value is displayed, return to the vehicle and proceed forward off the truck scale platform. Again secure the vehicle and return to the truck scale house. If a numerical value other than “0” is displayed, press the key labeled “ZERO.” The scale read-out should now be “0”.
  - Return the vehicle to the truck scale platform and again observe the reading on the scale read-out located within the truck scale house.
  - Place a blank weight ticket (located on counter top in truck scale house) onto the “Fairbanks” printer. Slide the blank weight ticket into the printer against the paper guide and move it upward until resistance is encountered.
  - Press the “print” key on the “Fairbanks” scale readout.
  - Remove weight ticket from the back of the scale printer and maintain for project records.
  - Leave the Truck Scale by proceeding north and exiting the Solid Waste Transfer Facility yard onto P Avenue.

**7D Procedure for reporting and/or tracking actual load weights.**

An “empty” weight as well as a “full” weight must be known for the vehicle in order to determine the quantity of material being transported. An “empty” weight can be determined using the SNL truck scale as described above, and need only be determined one time. Although slight variations in “empty” vehicle weight may occur due to fuel levels and individual drivers, these variations are considered minimal when determining the load weight. An “empty” vehicle weight (if known) may be hand written on weight tickets obtained for “full” vehicle weights to aid in computing individual load weights on a single weight ticket.

**8.0 INFRASTRUCTION PROJECT WASTE DIVERSION LOG**

Project: Project Y

Period: \_\_\_\_\_ to \_\_\_\_\_

*Instructions: 1) Complete and maintain Log at Company X site office.*

<b>Material</b>	<b>Quantity (tons)</b>	<b>Destination</b>	<b>Date</b>
<i>List materials as appropriate (metal, asphalt, reinforced concrete, un-reinforced concrete, etc.)</i>	<i>Fill in as appropriate for each load or shipment of materials.</i>		