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USACE / NAVFAC / AFCEA / NASA UFGS-01 74 19 (June 2007)

Preparing Activity: USACE Superseding  
UFGS-01 74 19 (October 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

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06/07

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SECTION 01 74 19  
CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT  
06/07

PART 1-GENERAL

1.1 GOVERNMENT POLICY

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Government policy is to apply sound environmental principles in the design, construction and use of facilities. As part of the implementation of that policy the Contractor shall: (1) practice efficient waste management when sizing, cutting, and installing products and materials and (2) use all reasonable means to divert construction and demolition waste from landfills and incinerators and to facilitate their recycling or reuse. A minimum of 50% percent by weight of total project solid waste shall be diverted from the landfill.

1.2 REFERENCES

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Assistant Chief of Staff for Installation Management (ACSIM) policy, Subject: Sustainable Management of Waste in Military Construction, Renovation, and Demolition Activities, dated 11 July 2006, requires construction and demolition debris management on federally funded projects.

The ACSIM policy requires a minimum landfill diversion of 50% of all construction and demolition debris (50%-minimum LEED requirement as of 2005). Building removal and construction shall have landfill diversion as a goal (see [www.usgbc.org](http://www.usgbc.org) for more on LEED diversion requirements)

1.3 SUMMARY

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The following document outlines waste management criteria for all Ft. Campbell construction and demolition projects. Guidelines established in section 01 74 19 are intended for the use of contractor and contractor's affiliates. Appendix A is a separate reference material for completing section 01 74 19.

Materials subject to the diversion requirements of this contract are the materials that are generated within the construction limits of this project, to include any materials associated with meeting the terms of this contract.

1.4 WASTE DIVERSION GOALS

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The Government has established that this Project shall generate the least amount of waste possible due to error, poor planning, breakage, mishandling, contamination, or other factors.

Construction and Demolition waste will be generated. Contractors must evaluate all diversion options and make every effort to achieve the highest diversion rate within the project schedule and budget. The goal is zero waste; however, the contractor must divert a minimum of 50% of the total solid waste from all construction and demolition activities. Waste disposal in landfills shall be minimized.

Diversion can be accomplished by deconstructing the buildings and components or by moving the structure off-post. See UFGS SECTION 02 41 00.

1.5 MANAGEMENT

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With regard to these goals, the Contractor shall develop a Waste Management Plan (WMP) for the Government's review. Once this plan undergoes review by the Government, Contractor will be notified of project award or project denial. The government will base project award on a number of factors included in the "best value evaluation" model. The WMP is a critical component of project award. This plan shall describe and document each of the following diversion and non-diversion activities:

- A. Salvage
- B. Reuse
- C. Source Separation Construction and Demolition Debris Recycling
- D. Co-mingled Construction and Demolition Debris Recycling
- E. Landfill Disposal

Develop and implement a waste management plan as specified in this section. Take a proactive, responsible role in the management of construction and demolition waste and require all subcontractors, vendors, and suppliers to participate in program. The Debris

Management Coordinator (DMC) shall be responsible for instructing workers and overseeing and documenting the results of the Waste Management Plan (WMP). Construction and demolition waste includes products of demolition and construction, excess of unusable C&D materials, packaging materials for construction products, and other materials generated during the construction process but not incorporated into the work. In the management of waste, consideration shall be given to the availability of viable markets, the condition of the materials, the ability to provide the material in suitable condition, and in a quality acceptable to available markets.

#### 1.5.1 C&D Materials:

The following is a list of C&D debris materials. The project waste may include but is not limited to these materials. Refer to Fort Campbell Contractor's Tool Kit for a more comprehensive list of materials.

- A. Asphalt
- B. Bricks
- C. Carpet and carpet pad
- D. Corrugated cardboard
- E. Clean dimensional wood
- F. Concrete and rock
- G. Concrete masonry units (CMU), slump stone (decorative concrete blocks)
- H. Dirt
- I. Doors
- J. Ferrous & nonferrous metals such as banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
- K. Fluorescent lights and ballasts
- L. Gypsum wall board (drywall)
- M. Land clearing debris - green materials (i.e. tree trimmings)
- N. Paint
- L. Plastic wrap, buckets, PVC
- M. Roofing shingles
- N. Used beverage containers
- O. Wood

\* Recycle magnetic ballasts and older fluorescent lamps containing polychlorinated biphenyls (PCBs) and other toxic chemicals in such a manner that potentially dangerous chemicals are safely reprocessed.

#### 1.5.2 Materials Handling:

A. Salvageable materials, materials without approved contractor salvage rights, shall not to be transported off the installation. Government salvage requirements shall be evaluated on a project by project basis and Government salvage rights automatically apply for the following equipment:

- Transformers
- Cut-outs
- Capacitors
- Circuit Breakers
- Voltage Regulators

Line hardware  
Utility Poles

Salvageable metals that are recovered as a result of concrete grinding shall be separated and transported to DRMO for sale as scrap metal.

All salvageable materials removed from the project site shall be delivered to DRMO for selling as scrap metal unless the project specifications state the Contractor has salvage rights to the materials. The Contractor must properly complete the turn in document, DD Form 1348-1a and ensure Fort Campbell funding code (21F3875.11110B40B4AE00000DL012164) is utilized when materials are turned into DRMO.

B. Nonsalvageable materials shall not be removed from the installation. They shall be taken to the Woodlawn Road C/D landfill or diverted for recycle as recovered materials.

1. Street surfacing (asphalt/concrete), sidewalks, curbs & gutters, etc., and building related concrete and masonry materials shall be ground up at the construction site and reused on the site. The grinding of concrete shall be specified in the project specifications, Request For Proposal (RFP), or the Waste Management Plan. If the ground up materials exceed the amount needed for on-site use, the excess materials shall be transported to an off-site location designated by the COR. Materials to be ground up shall not have foreign items (doors, windows, piping, PVC items, toilet partitions, plumbing fixtures, electrical items, etc) included that will render the ground products un-useable.

2. These materials may also be transported and stockpiled at the Woodlawn Road C/D landfill for future grinding unless specified otherwise. However, Ft. Campbell has placed limits on the size of materials (specifically concrete and asphalt pavement) that can be placed in the stockpile at the landfill. These materials shall not exceed more than 2 feet by 3 feet and shall be no thicker than 18 inches.

3. Bricks may be delivered whole and recycled to meet diversion goals.

4. Land clearing waste (trees, tree branches, stumps, etc.) shall be transported to Bi-County landfill for mulching or mulched on site. Logs delivered to Bi-County landfill cannot exceed a maximum length of 12' and 20" in. diameter.

5. Construction projects requiring soil borrow material or projects having excess soil should be coordinated with DPW Engineering Division at 270-798-3113.

Refuse (garbage) generated at the project site shall be removed and disposed of by the contractor. It is the Contractor's responsibility to provide collection and disposal of refuse at his/her own expense. The government will not reimburse the Contractor for on-site refuse collection and disposal expenses.

1.5.3 Woodlawn Landfill Access:

A. Upon award of a contract, the name of the contractor, the contract number, project name and the completion date of the contract are furnished to the Directorate of Public Works Environmental Division, which will in turn furnish landfill access passes for the contractor's use in delivering C&D debris materials to the Woodlawn Road C&D landfill. Point of Contact for landfill access passes is DPW Environmental Division at (270) 798-97699773.

B. Deleted

C. Scales are available at the landfill. All loads of debris will be weighed and recorded in the landfill database. Each month, tabulation (by contract number) will be furnished to contracting office indicating the amount of debris generated by that contract, if requested. Trucks and/or trailers shall be weighed coming in and going out of the landfill. The vehicle operator shall have a landfill access pass that was issued to the contractor to obtain entrance into the landfill.

1.6 SUBMITTALS

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The following submittals are required to be approved by the Government.

A. Waste Management Plan (WMP) to indicate how waste will be diverted from landfills.

B. Closeout submittal including weight verification of all construction and demolition material. The percent diversion shall be documented in this submittal.

PART 2 PRODUCT

2.1 WASTE MANGEMENT PLAN (WMP):

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The complete Waste Management Plan (WMP) consists of two sequential documents: WMP-Form A and WMP-Form B. Contractor must complete WMP-Form A prior to commencement of debris management activities. Once awarded project, the Debris Management Coordinator (DMC) must assume debris management responsibilities including the submission of WMP-Form B and records and data to support disposal and diversion percentages.

2.1.1 WMP- Form A (submit with proposal): WMP- Form A required for bidding and is a prerequisite of project award. This document should describe planned C&D debris management activities. Contractor must complete and submit the WMP prior to construction and demolition commencement. WMP-Form A must be approved by the Contracting Officer. The Contracting Officer may require contractor to revise and resubmit the plan. Approval of Contractor's WMP will not relieve the Contractor of responsibility for compliance with applicable environmental regulations or meeting project cumulative waste diversion requirement.

2.1.2 WMP- Form B: Once the WMP- Form A is submitted, reviewed, and approved, DMC contractor must submit WMP- Form B on a quarterly basis. Form B documents actual diversion percentages. Additionally, Contractor must submit records and data that verify:

- A. Total waste generated,
- B. Total waste diverted by recycling, reuse, or salvage, and
- C. The type of waste generated/diverted.

The quantity of waste materials shall be by weight (tons). Landfill records and materials receipts shall be submitted as a formal material submittal.

2.2 WMP-FORM A

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Contractor will complete and submit the general WMP documents with the Contractor's proposal for Government review. If approved, this WMP will serve as the basis for the quarterly records and data submittals and WMP-Form B. Contractor must submit initial WMP with project proposal to avoid disqualification. This plan should include separate sections for demolition and construction projects. See Appendix A for the WMP forms and corresponding instructions for completing the form. Contractor has the option of completing the WMP forms in Appendix A or creating his own. If he creates his own, the plan must contain the following:

- A. Name of individuals on the Contractor's staff responsible for waste prevention and management.

B. Actions that will be taken to reduce solid waste generation, including coordination with subcontractors to ensure awareness and participation.

C. Meetings: Describe the regular meetings to be held to address waste management. At a minimum, discuss waste management goals and issues at pre-construction meetings and regularly scheduled job-site meetings.

D. Description of the specific approaches to be used in recycling/reuse of the various materials generated, including the areas on site and equipment to be used for processing, sorting, and temporary storage of wastes.

E. Characterization, including estimated types and quantities, of the waste to be generated.

F. List of specific waste materials that will be salvaged for resale, salvaged and reused on the current project, salvaged and stored for reuse on a future project, or recycled. Recycling facilities that will be used shall be identified by name, location, and phone number, including a copy of the permit or license for each facility.

G. Identification of materials that cannot be recycled/reused with an explanation or justification, to be approved by the Contracting Officer.

H. Description of the means by which any recyclable materials identified in item (E) above will be protected from contamination.

2.3 WMP-FORM B

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WMP-Form B will account for all construction and demolition waste management activity from project commencement to termination. This form must be completed and submitted on a quarterly basis. Failure to meet the 50% diversion requirement must be addressed with a written explanation of disparities along with WMP-Form B. Contractor has the option of completing the WMP forms in Appendix A or creating his own. If he creates his own, the plan must contain the following:

A. Waste Analysis: Document project waste to be generated, including types and quantities by weight.

B. Diversion Options: List each material to be salvaged, reused, or recycled during the course of the Project, the proposed local market for each material, and the estimated net cost savings/additional costs from diversion. "Net" means that the following have been subtracted from the cost of separating and recycling: (a) revenue from the sale of recycled or salvaged materials and (b) landfill tipping fees saved due to diversion of materials from the landfill.

C. Waste Reduction Calculations: Calculated end-of-project rates as a percentage of total waste.

D. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals/organizations. Indicate whether organization is tax exempt.

E. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.

F. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight, tickets, receipts, and invoices.

G. LEED Submittal (If applicable): LEED letter template for Credit MR 2.1, signed by Contractor, indicating total waste material, quantities diverted and means by which it is diverted and a statement that requirements for the credit have been met.

H. Landfill Options: Include landfill contact information and costs. Provide the name of the landfill(s), respective tipping fee(s), and the total projected cost of landfill disposal. If using Woodlawn landfill, document \$15 per ton for disposal cost. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

I. Timeline: Submit a proposed timeline of project commencement and project termination in addition to a plan for periodic onsite updates of C&D debris handling.

J. Handling and Transportation: Describe methods of separation including the use of containers, their location, and labeling system used to identify the different materials. Describe transportation/hauling procedures, which may include but are not limited to contracting a recycling hauler, arranging transportation with the local market to be used and various means of self-transportation.

K. Negotiated approval of the Contractor WMP must be obtained prior to the commencement of waste management activities. Once notified of WMP approval, Contractor may begin WMP implementation.

(See Contractor Tool Kit, Appendix A for guidance)

PART 3 EXECUTION

3.0 WASTE MANAGEMENT PLAN (WMP) EXECUTION

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A. Debris Management Coordinator (DMC): The Contractor shall designate an on site party (or parties) responsible for waste management instruction, oversight and documentation for the entire project.

B. Depending on the size and complexity of the project, Contractor may either designate a full time DMC or assign responsibility to the job supervisor or appropriate personnel.

C. Distribution: The Contractor shall distribute copies of the WMP and Contractor Tool Kit to the Job Site Foreman and to each Subcontractor.

D. Instruction: The Contractor shall provide on-site instruction of correct separation, handling, recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.

E. Source Separation: The Contractor shall identify and clearly label a specific area to facilitate separation of materials for diversion activities. Recycling and waste bin areas are to be kept neat, clean and clearly marked in order to avoid contamination of materials.

F. If hazardous materials are found at anytime, the contractor shall halt work and inform the Government. The following is a list of appropriate source separation procedures:

1. Separate recyclable materials from construction and demolition debris to the maximum extent possible. Separate recyclable materials by type.
2. Provide containers, clearly labeled, by type of separated materials or provide other storage method for managing recyclable materials until they are removed from Project site.
3. Stockpile processed materials on-site without mixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
4. Stockpile materials away from demolition area. Do not store within drip line of remaining trees.
5. Store components off the ground and protect from weather.

G. Removal of Construction and Demolition Debris:

1. Buildings and their appurtenances are property of the Contractor. Revenues and savings from recycling, salvage, and reuse shall accrue to the Contractor.

2. Remove construction and demolition debris from project site on a regular basis. Do not allow construction and demolition debris to accumulate on-site.

3. Transport construction and demolition debris off Contractor's property and legally dispose of them.

4. Burning of construction and demolition debris is not permitted.

3.2 APPENDIX A: CONTRACTOR TOOL KIT

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Use Appendix A: Contractor Tool Kit as a supplement to Waste Management Plan bid specification section 01 74 19. Appendix A contains the following:

A. Definitions: A list of waste management terms and their corresponding definitions.

B. WMP Documents (Construction and Demolition): Includes the WMP worksheets for both Construction and Demolition and Instructions. Use these documents for the completion and submission of WMP and Progress Payment WMP.

C. Conversion Chart: Use this document to convert material weight and volume.

D. State Recycling Coordinators: A list containing state recycling coordinators and their contact information. Use in correspondence with the Directory of Salvage, Reuse and Recycling markets.

E. Summaries: A collection of various documents pertinent to WMP development and implementation.

F. Recycling/Salvage/Reuse Market Directory: Contains contact information for local haulers and recycling markets for various construction and demolition materials. The information in the directory is a guidance document and may be incomplete; other haulers and markets utilized by the contractor are acceptable.

## WMP - Form A - Instructions

Bidders are required to complete and submit a WMP- Form A. This is the initial job site plan of action and will be used to evaluate project award. It is mandatory for the bidding Contractor to provide all of the following information regarding construction and demolition debris management on the project. This must be completed prior to any material removal from the site.

Follow these procedures to maximize recycling at your job site:

1	Separate and recycle wood, cardboard, metal, drywall, and other recyclable materials.	<input type="checkbox"/>
2	Ensure that all containers and recycling dumpsters are convenient and clearly labeled.	<input type="checkbox"/>
3	Train new personnel on recycling container location and which materials are recyclable.	<input type="checkbox"/>
4	Move mixed C&D debris and recycling containers close to each other making it convenient to recycle.	<input type="checkbox"/>
5	Store materials to prevent loss from damage.	<input type="checkbox"/>
6	Check recycling and mixed C&D containers daily for mis-sorted materials.	<input type="checkbox"/>
7	Provide training to people who are mis-sorting recyclable materials.	<input type="checkbox"/>
8	Identify large quantities of waste that are not being recycled, and have DMC evaluate options for marketing the material.	<input type="checkbox"/>

Action Items:

A	Complete this WMP - Form A and post on-site.	<input type="checkbox"/>
B	Commit subcontractors to recycle in Subcontractor Agreement.	<input type="checkbox"/>
C	Keep subcontractors and workers aware of and informed on the C&D Debris Management Program.	<input type="checkbox"/>
D	Require individuals to properly sort recyclables and hold them responsible for mis-sorted loads.	<input type="checkbox"/>
E	Track and promote diversion results.	<input type="checkbox"/>

Complete the following (3) sheets of the WMP- Form A and submit with proposal.

\* Note: Failure to submit WMP- Form A in a timely manner may be cause for Government to render the bid nonresponsive.

**WMP - Form A - Recyclable Materials (Sheet 1)**

Material Type	Condition of Material*	On-site Handling	Hauling Procedures	Final Destination
Asphalt/Concrete				
Brick/Masonry/Tile				
Building Materials **				
Carpet & Pad				
Cardboard				
Ceiling Tile				
Concrete				
Drywall				
Field Office Waste				
Paint				
Plastic Film, Sheeting, Wrap				
Scrap Metal				
Aluminum				
Copper				
Steel				
Other Metals				
Unpainted Wood & Pallets				
Window Glass				
Other				

\* Check with recycler & hauler for any specifications regarding the required condition/s of material (e.g. size restrictions, packaging, other variables.)

\*\* (Doors, windows, fixtures, shingles, lumber, insulation, sheetgoods, etc.)

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Failure to submit WMP- Form A in a timely manner may be cause for Government to render the bid nonresponsive.

**WMP - Form A - Project Details (Sheet 2)**

Project: \_\_\_\_\_

Date: \_\_\_\_\_

**1. Estimated Project Waste**

Total Quantity	Total Cost/Ton	Percentage to be Diverted from Landfill*

**2. Describe methods for avoiding contamination of recyclables**


**3. Waste Management Meetings to be held**

Pre-Construction	_____	Description _____
Monthly	_____	
Other	_____	

\* Must be a minimum of 50% to qualify  
Note: Failure to submit WMP- Form A in a timely manner may be cause for Government to render the bid nonresponsive.



**WMP - Form B - Demolition**

Quarter #: \_\_\_\_\_

Start Date: \_\_\_\_\_

End Date: \_\_\_\_\_

A Material	Cost for Option 1										Cost for Option 2							
	B Generated Debris		D Recycled Debris (%)		F Salvage/ Reuse Debris (%)		H Landfilled Debris (%)		J Total Diverted Debris		L Cost to Landfill All C&D Debris		N Cost to Landfill Non-Diverted Material		P Cost to Recycle, Salvage or Reuse (get from recycling costs chart)		R Total Savings (Cost of Option One less Cost of Option Two)	
	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est (D+F)	Actual (E+G)	Est	Actual	Est	Actual	Est	Actual	Est	Actual
	(tons)		%		%		%		(tons)		\$/Ton**		\$		\$		\$	
Asphalt/Concrete																		
Walls																		
Brick/Masonry/Tile																		
Building Materials*																		
Carpet & Pad																		
Cardboard																		
Asbestos Tile																		
Concrete																		
Drywall																		
Field Office Waste																		
Paint																		
Plastic Film, Sheeting, Wrap																		
Scrap Metal																		
Aluminum																		
Copper																		
Steel																		
Other Metals																		
Unpainted Wood & Pallets																		
Window Glass																		
Other																		
Total																		

TOTAL PROJECT SAVINGS \$ \_\_\_\_\_

\* Doors, windows, mirrors, sashes, trusses, insulation, sheetrock, etc.  
 \*\* \$12/ton (St-County Landfill's rate for non-hazardous C&D is \$6/ty, mixed C&D debris is approx. 0.5 tons/ty)  
 Note: Contractor must transfer WMP Form A estimates to Form B to demonstrate the cumulative amount of waste generated and diverted.  
 Diversion percentages account for amount and type of materials kept out of the landfill to date.  
 Attach proof of disposal or diversion. For example: haul tickets, landfill records, recycling receipts, bill of sale.

Contractor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Affidavit: \_\_\_\_\_

### WMP - Form B - Construction

Quarter #: \_\_\_\_\_

Start Date: \_\_\_\_\_

End Date: \_\_\_\_\_

A Material	B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S	
	Generated Debris		Recycled Debris (%)		Salvaged Reuse Debris (%)		Landfilled Debris (%)		Total Diverted Debris		Cost to Landfill All C&D Debris		Cost to Landfill Non Diverted Material		Cost to Recycle, Salvage or Reuse (get from recycling costs chart)		Total Savings (Cost of Option One less Cost of Option Two)																			
	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual	Est	Actual				
	(tons)		%		%		%		(tons)		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton		\$/ton			
Asphalt/Concrete																																				
Brick/Masonry/Tile																																				
Building Materials*																																				
Carpet & Pad																																				
Cardboard																																				
Ceiling Tile																																				
Concrete																																				
Drywall																																				
Field Office Waste																																				
Paint																																				
Plastic Film, Sheeting, Wrap																																				
Scrap Metal																																				
Aluminum																																				
Copper																																				
Steel																																				
Other Metals																																				
Unpainted Wood & Pallets																																				
Window Glass																																				
Other																																				
Total																																				

TOTAL PROJECT SAVINGS \$ \_\_\_\_\_

\* Doors, windows, fixtures, shingles, lumber, insulation, sheetgoods, etc. \*\* \$12/ton (B-County Landfill's rate for non-hazardous C&D is 98%; mixed C&D debris is approx. 0.5 tons/day)  
 Note: Contractor must transfer WMP Form A estimates to Form B to demonstrate the cumulative amount of waste generated and diverted. Diversion percentages account for amount and type of materials kept out of the landfill to date. Attach proof of disposal or diversion. For example: haul tickets, landfill records, recycling receipts, bill of sale.

Contractor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Affidavit: \_\_\_\_\_