



TES
FILER CITY STATION

C/D WASTE WOOD MONITORING PLAN

SRN: N1685

September 20, 2012

Amended September 25, 2019

1. SCOPE

The sampling methods and specifications herein have been established and will be implemented to ensure that only high quality construction demolition waste wood is received and that it complies with the non-wood debris limitations.

2. SIGNIFICANCE AND USE

The sampling and inspection procedure described are used to determine if construction and demolition waste wood meets the criteria established for TES Filer City and to ensure compliance with the ROP conditions for emission group FGFUELSTORAGE.

3. APPARATUS

3.1 Test Bin, constructed of rigid materials with measurements 30" long x 30" wide x 6" high with an open top.

3.2 Inspection Grid, consisting of a square rigid frame designed to closely fit over Test Bin; with wires attached to said frame in a manner resulting in 100 – 3' x 3" observation grids.

3.3 Gross Sample Container with a volume of at least 5 cubic feet.

4. PROCEDURE

4.1 Sampling

4.1.1 Collection of the Sample - Once unloaded, samples will be taken from a minimum of 4 random locations in the pile and combined until at least 3 cubic feet have been sampled.

4.1.2 Preparation of Sample - The individual samples are deposited into the gross sample container and mixed thoroughly. Fill the test bin to within 1/2" of the top lip with sample material and then place the inspection grid on top of the test bin.

4.2 Inspection

4.2.1 For the purposes of this protocol:

“**Painted Wood**” includes wood material which has any trace of paint upon it. “**Incidental Non-wood Material**” includes, but is not limited to metals, paper, cardboard, vinyl, textiles, linoleum, fiberglass, plastic, plaster and dry wall, masonry materials, non- wood yard waste, roofing materials, electrical wiring, and wood impregnated with preservatives.

4.2.2 Visual Observations of Painted Wood and Painted Wood and Incidental Non-wood Material - The inspector will observe and estimate the percentage of surface area occupied by painted wood in each of the 100 - 3” x 3” grid squares. If there is any trace of paint on a piece of wood, the entire surface of that piece of wood shall be counted as painted wood.

The inspector will then estimate the percentage of surface area of each grid square occupied by painted wood and incidental non-wood material.

Visual observations of painted wood and painted wood and incidental non- wood material amounts in each grid square shall be rounded off to the nearest five (5) percentile.

4.2.3 Recording Results - Record the two types of observations on the **WASTE WOOD SAMPLING & INSPECTION FORM** (attached). If no painted wood or painted wood and incidental non-wood material is observed in a grid, a zero (0) shall be entered at the corresponding location on the data sheet.

4.3 Calculations

4.3.1 Calculation of the Percentage of Painted Wood and Painted Wood and Incidental Non- wood Material for the Entire Sample - Calculate the average grid square observation percentages for painted wood and painted wood and incidental non-wood material observations and record on the **WASTE WOOD SAMPLING & INSPECTION FORM**. The average grid square observation percentages for painted wood and painted wood and incidental non-wood material are also recorded on the **INSPECTION LOG** (attached).

4.4 Frequency of Sampling and Inspection

4.4.1 TES Filer City will sample and inspect every fourth shipment of C/D waste wood received from the Mid-Michigan Recycling processing facility in Flint and all shipments from other suppliers.

4.4.2 A supplier may request a reduction in the frequency of sampling and inspection if they have demonstrated superior and consistent quality control levels. The requested sampling reduction will require approval from the Department of Environment, Great Lakes, and Energy (EGLE) approval.

4.4.3 The 12 month rolling average value of painted wood must not exceed one and one-half percent (1-1/2%); and for painted wood and incidental non-wood material, the 12-month rolling average must not exceed two and one-half percent (2-1/2%). If during any month these limits are exceeded, TES Filer City will notify EGLE. TES Filer City will provide the EGLE with the percentage value of painted wood or painted wood and incidental non-wood material derived, corrective action taken to improve the quality of waste wood being processed at a supplier and its plans for a follow-up inspection of the waste wood exceeding the quality limits.

4.4.4 EGLE representatives may enter TES Filer City at any time during normal operating hours to sample and inspect in accordance with the protocol contained herein. TES Filer City will provide apparatus and collection tools to EGLE personnel for conducting the sampling and inspection protocol.

4.5 Processed Waste Wood Load Rejection Criteria

4.5.1 TES Filer City will not accept any load which exceeds 3% for painted wood or 4.5% for painted wood and incidental non-wood material, as determined by these sampling and inspection procedures. TES Filer City will verbally notify the supplier immediately and follow up in writing no more than 5 days subsequent to any load rejected at TES Filer City. The supplier will follow up with diagnostic and corrective action to improve the quality of waste wood at the source responsible for the rejected load.

4.6 Re-inspection

4.6.1 If there is a disagreement between parties with respect to the visual observations of painted wood or painted wood and incidental non-wood material recorded by an inspector, there will be an opportunity for re-inspection by a panel of representatives from EGLE, TES Filer City and the supplier. When a re-inspection has been requested, subject sample will be placed in a sealed container and retained for re-inspection by the panel of representatives.

4.7 Records

4.7.1 The **WASTE WOOD SAMPLING & INSPECTION FORM** and **INSPECTION LOG** will be maintained at TES Filer City. These records will be made available for EGLE inspection upon request.

4.7.2 During any calendar quarter that TES Flier City receives C/D wood waste, a quarterly report detailing quantities and sampling results will be submitted to EGLE.

INSPECTION LOG

SHEET# _____

DATE	TIME	INSPECTOR	% PAINTED WOOD	% PAINTED WOOD & INCIDENTAL NON-WOOD MATERIAL	COMMENTS