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LEED for Homes MR 3.1 / 3.2 Construction Waste Management Plan & Reduction

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MR – MATERIALS & RESOURCES

MR 3.1 - Construction Waste Management Planning

USGBC Required Submittals

Document the waste management plan

The intent of this credit within the LEED for Homes program is to reduce waste generation to a level below the industry norm. It is also a prerequisite that must be completed in order to have the project considered for LEED for Homes certification. The information below is only an example and must be modified accordingly for your project.

Step 1 - Document Diversion Options / Waste Mangement Planning (example)

1. Demolition

The site is a vacant lot that is roughly graded. Currently, there are no existing structures or foundations that need to be removed.

2. Site Clearing

At this time only two items would be considered a part of site clearing.

- a) There are two parkway trees that will be kept. One of which will be relocated due to a conflict with the location of the driveway:
- b) The other material consists of primarily clay soils that were excavated from the basement.



- The EPA considers dirt/earth as inert. (Table C – 1 of “*Characterization of Building-Related Construction and Demolition Debris In The United States*” June 1998).
- Other things to consider is that typically a development of the size would not have been allowed to be constructed without proper environmental analysis. We currently do not have records of any EPA phase 1 study, but will pursue it at a later date. In the interim, it is relatively safe to assume then that the municipality would not have granted or would not grant permits within this development if it was environmentally encumbered.
- **For the LEED for Homes process, the documentation will consist of the hauling tickets and location along with the potential use.**

3. Construction Waste

The potential waste generated by this project has been identified as:

Primary Inert Fractions

- | | |
|--|---|
| <ul style="list-style-type: none"> • Asphalt • Brick • Cinder block • Concrete with rebar/wire mesh • Concrete without steel reinforcing • Masonite/slate • Tile-ceramic • Glass • Dirt/earth | <ul style="list-style-type: none"> • Plastic sheet film • Plastic pipe • Porcelain, including bathroom fixtures • Metal-ferrous • Metal-nonferrous • Electrical wiring • Insulation-fiberglass • Plastic buckets/containers |
|--|---|

High Organic Based Fractions

- | | |
|--|---|
| <ul style="list-style-type: none"> • Corrugated shipping containers • Insulation-treated cellulose • Insulation-sheathing • Pallets/spools/reels • Pressboard/chipboard | <ul style="list-style-type: none"> • Roofing materials (e.g., roofing felt, asphalt shingles) • Dimensional lumber & shapes (clean) • Plywood, particleboard, oriented strandboard, etc. |
|--|---|

Range of Composite Materials (may require special handling)

- | | |
|---|--|
| <ul style="list-style-type: none"> • Carpeting • Carpet padding • Gypsum wallboard (mainly gypsum with paper backing) • Electrical fixtures (metal, light tubes/bulbs, ballasts) • Electrical switches | <ul style="list-style-type: none"> • Rubber hosing/conduits • Tires (some with wheels) • Painted wood • Pressure treated wood • Wood composites |
|---|--|

Options at this time are:

- Working with the locally approved waste hauler to provide **multiple** recyclable material designated dumpsters. Final documentation to be a distributive percentage ticket indicating separation of recyclable items and non-recyclable items as a minimum.

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- b) Working with the locally approved waste hauler to provide a **single** dumpster that will be separated at a transfer station. Final documentation to be a distributive percentage ticket indicating separation of recyclable items and non-recyclable items as a minimum.

Potential Contacts:

Waste Management

Office Address: 11601 South Austin Alsip, IL 60803 USA

Phone: 800-796-9696

Fax: 866-863-4834

Customer Service: wmillin@wm.com 800-796-9696

<http://www.wm.com/enterprise/construction/Diversion-and-Recycling-Tracking-Tool.jsp>

Veolia Environmental Services

Office Address: 106 Ford Drive New Lenox, IL 60451 USA

Phone: 815-836-8813

<http://www.veoliaes.com/en/services/enterprise/recycling/construction-demolition-materials.html>

4. Homeowner Recycling

Waste Management

The Village of Lemont uses Waste Management for garbage collection services. Contact Waste Management for new service or customer service:

Waste Management, Inc.

2100 Moen Ave.

Rockdale, IL 60436

Ph: (800) 796-9696

Refuse Service

Garbage cans are issued by Waste Management. All items must be placed at the curb by 6:00 am on the day of collection.

One large household item, such as discarded furniture, mattresses, etc. will be collected on the regular pick-up day. Carpeting/padding should be cut and rolled in four-foot lengths weighing no more than 50 pounds each. Additional oversized items may require a special pick-up. Please contact Waste Management for an estimate.

Waste Management will bill residents directly for service on a quarterly basis. A \$1 senior discount will apply to all qualified senior citizens that are at least 65 years old and that own and occupy their own dwelling.

Refuse Information

Branches/Leaves/Landscaping: <http://www.lemont.il.us/index.aspx?NID=298>

Recycling: <http://www.lemont.il.us/index.aspx?NID=296>

Items Accepted



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Newspapers
Mixed paper products
Glass jars and bottles
Aluminum / metal cans
Plastic food grade
containers

Polystyrene (carry-out
containers)
Bottles that contained:
Motor oil
Pesticides
Chemicals

Items Not Accepted

Appliances/Tires/Hazardous Waste: <http://www.lemont.il.us/index.aspx?NID=299>

MR 3.2 - Construction Waste Reduction
USGBC Required Submittals
Calculations of construction waste diversion rates; AND Waste hauling tags or tickets.

Step 2 - Diversion Rates (examples)

1. Demolition

Provide report or tickets

2. Site Clearing

The unused soil was excavated and hauled to _____ . By

_____ Company on _____/2011

The amount was (by weight)_____

3. Construction Waste

Depending on which hauling method is used under “Diversion Options / 3-construction waste, we won’t know what the method of tracking or documentation will be.

Typically this is done via tickets that track diversion by weight. On the final report should be a breakdown by percentage of each item type that was diverted from the landfill.

4. Homeowner Recycling

NEED TO LIST SERVICE PROVIDERS – typically will be on the municipality’s website

Education/information to also be provided in O&M Manual



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