

1 WASTE
MANAGEMENT GOALS

- .1 Prior to start of Work conduct meeting with Departmental Representative to review and discuss PWGSC's waste management goals.
- .2 PWGSC's waste management goal 75 percent of total project waste to be diverted from landfill sites. Provide Departmental Representative documentation certifying that waste management, recycling, reuse of recyclable and reusable materials have been extensively practiced.
- .3 Accomplish maximum control of solid construction waste.
- .4 Preserve environment and prevent pollution and environment damage.

2 DEFINITIONS

- .1 Demolition Waste Audit (DWA): relates to actual waste generated from project.
- .2 Inert Fill: inert waste - exclusively asphalt and concrete.
- .3 Materials Source Separation Program (MSSP): consists of series of ongoing activities to separate reusable and recyclable waste material into material categories from other types of waste at point of generation.
- .4 Recyclable: ability of product or material to be recovered at end of its life cycle and re-manufactured into new product for reuse.
- .5 Recycle: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.
- .6 Recycling: process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using in altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- .7 Reuse: repeated use of product in same form but not necessarily for same purpose. Reuse

includes:

- .1 Salvaging reusable materials from re-modelling projects, before demolition stage, for resale, reuse on current project or for storage for use on future projects.
- .2 Returning reusable items including pallets or unused products to vendors.
- .8 Salvage: removal of structural and non-structural materials from deconstruction/disassembly projects for purpose of reuse or recycling.
- .9 Separate Condition: refers to waste sorted into individual types.
- .10 Source Separation: acts of keeping different types of waste materials separate beginning from first time they became waste.
- .11 Waste Management Co-ordinator (WMC): Contractor representative responsible for supervising waste management activities as well as coordinating related, required submittal and reporting requirements.
- .12 Waste Reduction Workplan (WRW): written report which addresses opportunities for reduction, reuse, or recycling of materials.

3 DOCUMENTS

- .1 Maintain at job site, one copy of following documents:
 - .1 Demolition Waste Audit.
 - .2 Waste Reduction Workplan.
 - .3 Material Source Separation Plan.
 - .4 Schedules completed for project.

4 SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00.
- .2 Prepare and submit following prior to project start-up:
 - .1 Submit 2 copies of completed Waste Reduction Workplan (WRW): Schedule B.
 - .2 Submit 2 copies of completed Demolition Waste Audit (DWA): Schedule C.
- .3 Submit before final payment summary of waste materials salvaged for reuse, recycling or

disposal by project using
deconstruction/disassembly material audit
form.

.1 Failure to submit could result in hold
back of final payment.

.2 Provide receipts, scale tickets,
waybills, and show quantities and types of
materials reused, recycled or disposed of.

.3 For each material reused, sold or
recycled from project, include amount in
tones or quantities by number, type and size
of items and the destination.

.4 For each material land filled or
incinerated from project, include amount of
material and identity of landfill,
incinerator or transfer station.

5 WASTE REDUCTION
WORKPLAN (WRW)

.1 Prepare WRW prior to project start-up.

.2 WRW should include but not limited to:

.1 Destination of materials listed.

.2 Deconstruction/disassembly techniques
and sequencing.

.3 Schedule for
deconstruction/disassembly.

.4 Location.

.5 Security.

.6 Protection.

.7 Clear labeling of storage areas.

.8 Details on materials handling and
removal procedures.

.9 Quantities for materials to be salvaged
for reuse or recycled and materials sent
to landfill.

.3 Structure WRW to prioritize actions and
follow 3R's hierarchy, with Reduction as
first priority, followed by Reuse, then
Recycle.

.4 Describe management of waste.

.5 Identify opportunities for reduction, reuse,
and recycling of materials.

.6 Post WRW or summary where workers at site are
able to review content.

.7 Set realistic goals for waste reduction,

recognize existing barriers and develop strategies to overcome these barriers.

- .8 Monitor and report on waste reduction by documenting total volume and cost of actual waste removed from project.

6 DEMOLITION WASTE AUDIT (DWA)

- .1 Prepare DWA prior to project start-up.
- .2 Complete DWA: Schedule A.
- .3 Provide inventory of quantities of materials to be salvaged for reuse, recycling, or disposal.

7 MATERIALS SOURCE SEPARATION PROGRAM (MSSP)

- .1 Prepare MSSP and have ready for use prior to project start-up.
- .2 Implement MSSP for waste generated on project in compliance with approved methods and as reviewed by Departmental Representative.
- .3 Provide on-site facilities for collection, handling, and storage of anticipated quantities of reusable and recyclable materials.
- .4 Provide containers to deposit reusable and recyclable materials.
- .5 Locate containers in locations, to facilitate deposit of materials without hindering daily operations.
- .6 Locate separated materials in areas which minimize material damage.
- .7 Collect, handle, store on-site, and transport off-site, salvaged materials in separate condition.
 - .1 Transport to approved and authorized recycling facility or to users of material for recycling.

8 WASTE PROCESSING SITES

- .1 Use Provincial Ministry Office recognized and listed processing sites pertaining to reuse and recycle centres and waste processing sites.

9 STORAGE,
HANDLING AND
PROTECTION

- .1 Store, materials to be reused, recycled and salvaged in locations as directed by Departmental Representative.
- .2 Unless specified otherwise, materials for removal become Contractor's property.
- .3 Separate non-salvageable materials from salvaged items. Transport and deliver non-salvageable items to licensed disposal facility.
- .4 Protect structural components not removed for demolition from movement or damage.
- .5 Support affected structures. If safety of building is endangered, cease operations and immediately notify Departmental Representative.
- .6 Protect surface drainage, mechanical and electrical from damage and blockage.
- .7 Separate and store materials produced during dismantling of structures in designated areas.
- .8 Prevent contamination of materials to be salvaged and recycled and handle materials in accordance with requirements for acceptance by designated facilities.
 - .1 On-site source separation is recommended.
 - .2 Remove co-mingled materials to off-site processing facility for separation.
 - .3 Provide waybills for separated materials.

10 DISPOSAL OF
WASTES

- .1 Do not bury rubbish or waste materials.
- .2 Do not dispose of waste, volatile materials, mineral spirits, oil, paint thinner into waterways, storm, or sanitary sewers.
- .3 Keep records of construction waste including:
 - .1 Number and size of bins.
 - .2 Waste type of each bin.
 - .3 Total tonnage generated.

	.4	Tonnage reused or recycled.
	.5	Reused or recycled waste destination.
	.4	Remove materials from deconstruction as deconstruction/disassembly Work progresses.
	.5	Prepare project summary to verify destination and quantities on a material-by-material basis as identified in pre-demolition material audit.
<u>11 USE OF SITE AND FACILITIES</u>	.1	Execute Work with least possible interference or disturbance to normal use of premises.
<u>12 SCHEDULING</u>	.1	Co-ordinate Work with other activities at site to ensure timely and orderly progress of Work.
<u>13 APPLICATION</u>	.1	Do Work in compliance with WRW.
	.2	Handle waste materials not reused, salvaged, or recycled in accordance with appropriate regulations and codes.
<u>14 CLEANING</u>	.1	Remove tools and waste materials on completion of Work, and leave work area in clean and orderly condition.
	.2	Clean-up Work area as work progresses.
	.3	Source separate materials to be reused/recycled into specified sort areas.

15 DEMOLITION .1 Schedule C - Demolition Waste Audit (DWA):
WASTE AUDIT (DWA)

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Material	Quantity	Unit	Total	Volume	Weight	Remarks
Description				(cum)	(cum)	and
Assumptions						
Such as;						
Metal						
Gravel						
Roofing						
Wood						

END OF SECTION