

CITY OF REDONDO BEACH

CONSTRUCTION & DEMOLITION RECYCLING PROGRAM



The City of Redondo Beach (City) adopted a recycling program for construction and demolition wastes in December, 2004. The purpose of the program is to provide an incentive to encourage the diversion (recycling or reuse) of specific materials that represent a large percentage of the City's overall waste stream, and to comply with the State mandate.

- Any contractor, builder, demolition hauler, and or resident that applies for a demolition permit is required to submit a Waste Management Plan (WMP) and a performance deposit.
- No more than 25% of the 50% diversion rate can be achieved through the recycling or reuse of inert materials.
- The deposit is fully refundable if at least 50% of all wastes generated during the demolition are diverted from landfills, and appropriate documentation is provided to the City.

- Construction or building permittees will be required to submit a recycling report after construction is completed.

Please note that submittal and approval of an accurate and complete WMP is a precondition to issuance of any demolition permit. Submit the completed WMP to the Public Works Department with your completed demolition permit application. This booklet will guide you through this process, and explain the WMP, the mechanism for refund, and the documentation required. There are four easy steps to follow to assure compliance with the program, and may ultimately save you money through reduced waste disposal costs.

- **INERT Materials:** Asphalt, Brick, Concrete, Dirt, Glass, Rock
- **NON-INERT Materials:** Cardboard, Dry Wall, Green Waste, Metals, Wood

STEP 1

COMPLETE A WASTE MANAGEMENT PLAN (WMP)

WMP Form A Estimate — Applicants for demolition permits are required to complete a WMP by completing a WMP Form A Estimate.

Applicants should decide how they intend to assure that at least 50% (25% inert & 25% non-inert) of the wastes that the project will generate will be diverted (recycled or reused) from the landfill.

In this plan, the applicant will:

1. Estimate the volume or weight of the demolition materials they expect to generate through their demolition project by material type;
2. Estimate the maximum volume or weight of such materials that can feasibly be diverted via reuse or recycling. **No more than 25% of the 50% diversion rate can be achieved through the recycling or reuse of inert materials unless the applicant can demonstrate to the satisfaction of the WMP Compliance Official that sufficient structural materials do not exist for recycling or that 25%**

diversion of total waste through non-inert materials is not feasible;

3. Declare the vendor or facility the applicant proposes to use to collect or receive the material; and
4. The estimated volume or weight of demolition materials that will be landfilled in Class III landfills.
5. Deconstruction. In preparing the WMP, applicants for demolition permits involving the removal of all or part of an existing structure shall consider deconstruction, to the maximum extent feasible, and shall make the materials generated thereby available for salvage prior to landfilling. Deconstruction can be used to meet the 50% diversion requirement provided the applicant contracts with a reuse contractor and documents their efforts in the WMP.
6. Exemptions. If an applicant believes it is infeasible to comply with the diversion requirements of the WMP due to low recyclables or hazardous materials contamination, the applicant may apply for an exemption at the time that the applicant submits the required WMP.

STEP 2

PAY YOUR PERFORMANCE DEPOSIT & WMP FEE

Performance Deposit — Each person (applicant) who applies for a demolition permit shall post a deposit.

Exemption from the Performance Deposit — Applicants that choose Deconstruction as a means to demolish their structure(s) will not be required to submit a refundable Performance Deposit provided that they have contracted with a reuse facilitator. Applicants must enclose a copy of their contract with a reuse facilitator along with the WMP in order to waive the Performance Deposit requirement of Section 5-2.705 (a).

Waste Management Plan (WMP) Fee — In addition to the Performance Deposit, an WMP fee must also be paid to the City. The WMP fee will compensate the City for all

expenses incurred in administering the construction and demolition recycling program, including site inspections, document review, and processing. The WMP fee is non-refundable.

Performance Deposit and WMP fee payments can be made in the form of cash, check, cashier's check, or money order.

**Payments should be made to:
City of Redondo Beach**

Make your payments when you submit your completed WMP to the: **Public Works Department
531 N. Gertruda Avenue
Redondo Beach, CA 90277**

STEP 3

DIVERT C & D WASTES THROUGH RECYCLING OR REUSE

It is the responsibility of every owner, general contractor, subcontractor, and developer to divert the maximum feasible amount of salvageable and reusable materials away from landfilling. All waste diversion methods that qualify for a refund of the performance deposit are subject to restrictions and documentation requirements set forth in regulations issued by the City of Redondo Beach.

Be sure to keep all weight receipts issued by any recycling, reuse and disposal facility and maintain records or logs of the volume and weight of materials reused on the job site. The City may monitor and evaluate each demolition project to gauge progress toward the diversion requirement.

STEP 4

APPLY FOR A PERFORMANCE DEPOSIT REFUND

Within 30 days following the completion of the demolition project, the applicant shall submit documentation to the City of Redondo Beach Public Works Department which proves compliance with the diversion requirements of this program. The documentation shall consist of:

1. Receipts from the vendor or facility which collected or received each material showing the actual weight or volume of that material;
2. Weight slips/count of material salvaged or reused in current project;
3. A copy of the previously approved WMP Form A Estimate and Form B Actual for the project adding the actual volume or weight of each material diverted and landfilled to Form B Actual;

4. Any additional information the applicant believes is relevant to determining its efforts to comply in good faith.

A properly completed WMP, and all receipts, must be submitted to the Public Works Department prior to refund of deposit.

Deposits will not be refunded to applicants who do not meet the timely reporting requirements of the Municipal Code. A deposit refund will be issued for any project where a demolition permit was withdrawn or cancelled before any work was begun.

COST COMPARISON EXAMPLE:

LANDFILLING VS. RECYCLING

The City's C&D Recycling Ordinance requires that at least 50% of the demolition materials be recycled, and at least 25% need to be non-inert materials such as wood, drywall, metals, etc. If this requirement is not met, the applicant is at risk of forfeiting up to \$3,000 of the Performance Deposit.

A typical house in Redondo Beach of approximately 1,000 sq. ft. that would generate approximately 60 tons of non-inert debris for disposal or recycling is used for this comparison.

Figure A illustrates a situation where an applicant **does not** meet all of the requirements by disposing 25% of the non-inert materials in the Puente Hills Landfill.

Figure B illustrates the cost savings of **complying** with all of the requirements and recycling the non-inert materials at the average cost of two different mixed C&D debris recycling facilities in the area:

Figure A (Landfilling):

\$1,500 Deposit forfeited/60 Tons = \$25.00 per ton
Puente Hills Landfill Tip Fee = \$22.65 per ton
Transportation to Puente Hills = \$10.00 per ton
Total Approximate Cost = \$57.65 per ton

Figure B (Recycling):

Average Processing Fee = \$41.50 per ton
Average Transportation Cost = \$5.00 per ton
Total Approximate Cost = \$46.50 per ton
Total Savings = \$11.15 per ton saved
Grand Total Savings = \$669.00 (\$11.15 x 60 tons)



MIXED CONSTRUCTION & DEMOLITION RECYCLING FACILITIES

Downtown Diversion

2424 E. Olympic Blvd. Building 3
Los Angeles, CA 90021
Open 6:00 a.m. to 6:00 p.m. M-F
6:00 a.m. to 3:00 p.m. Sat.
Contact: **(213) 612-5005**
or (877) WE-DIVERT

California Waste Services

621 W. 152nd Street
Gardena, CA 90247
Open: 6:00 a.m. to 5:00 p.m. M-F
7:00 a.m. to 4:00 p.m. Sat.
Contact: **(310) 538-5998**
or (800) 839-5550

BFI Falcon Refuse Center

3031 E. I Street
Wilmington, CA 90744
Open: 6:00 a.m. to 4:00 p.m. M-F
7:00 a.m. to 12 noon Sat.
Contact: **(562) 590-8531**

For a complete list of recycling facilities, please visit: www.redondo.org

INERT VS. NON-INERT MATERIALS

INERT Materials:

Asphalt
Brick
Concrete
Dirt
Glass
Rock

NON-INERT Materials:

Cardboard
Dry Wall
Green Waste
Metals
Wood



CITY CONTACT



City of Redondo Beach
Public Works Department
Solid Waste/Recycling Division
531 N. Gertruda Avenue
Redondo Beach, CA 90277
(310) 318-0686, ext. 4193

www.redondo.org

Printed on Recycled Content Paper

**City of Redondo Beach
Form A Estimate
Waste Management Plan (WMP)**

The City of Redondo Beach (City) requires all demolition permit applicants to prepare a Waste Management Plan (WMP). Complete both sides of this form and estimate the amount of waste generated as a result of demolition work performed in the City.

1. General Information

For assistance with this form, contact (310) 318-0686 ext 4193

Job Site Address _____

Applicant's Name _____ **Title** _____

Company _____ **Phone** _____

Company Address _____ **City** _____ **State** _____ **Zip** _____

Fax # _____ **Email Address** _____

Type of Building: non-residential residential multi-family residential **Size of Building:** _____

Name of Permitted Demolition Contractor/Hauler: _____

2. Disposal and Recycling Information

How will the waste be handled during your project? (Please check all that apply)

Job site separation. Material will be segregated into two or more material-specific bins or piles. For example, - one bin/pile for concrete, one bin/pile for metals, and one bin/pile for wood etc.

Collection and delivery of mixed loads to a Materials Recovery Facility for C&D loads. Clean demolition is commingled in a roll-off bin. The mixed loads are then delivered to a Materials Recovery Facility for sorting.

Self-haul. Material is collected by the applicant either sorted or mixed, and then delivered to a Materials Recovery Facility and landfills using only the applicant's equipment and vehicles.

Deconstruction. Material is deconstructed in order to salvage for donation. Applicant must provide a copy of their contract with a Reuse Facilitator in order to waive the deposit required in section 5-2.705 (a).

Submit this form with payment of the Performance Deposit and the Waste Management Plan Fee to:

City of Redondo Beach
Public Works Dept.
531 N. Gertruda Ave.
Redondo Beach, CA 90277

Date Received _____	FOR CITY USE ONLY	Deposit Paid _____
Date Approved _____		WMP Fee Paid _____
Date Denied _____		
Reviewed by _____		
Name	Date	

**City of Redondo Beach
Form B Actual
Waste Management Plan (WMP)**

Complete both sides of this form and indicate the actual amount of waste generated as a result of demolition work performed in the City within 30 days following the completion of the demolition project. The purpose is to confirm that you diverted from the landfill at least 50% of the material generated by your project with no more than 25% coming from the recycling or reuse of inert materials.

Complete this form, attach all receipts and weight tags from recycling facilities, salvage companies, reuse facilitators, deconstruction contractors, waste haulers, processors, transfer stations and landfills and submit to:

City of Redondo Beach
Public Works Dept.
531 N. Gertruda Ave.
Redondo Beach, CA 90277

Job Site Address _____

Applicants Name _____ **Title** _____

Company _____ **Phone** _____

Company Address _____ **City** _____ **State** _____ **Zip** _____

Fax # _____ **Email Address** _____

Name of Permitted Demolition Contractor/Hauler: _____

CERTIFICATION

I, the undersigned, have complied to the maximum extent practicable with the Municipal Code regarding construction and demolition waste diversion. I hereby attest that the information in this report is true and accurate, and that all the debris was taken to a legitimate recycling, reuse, or salvage facilities as confirmed by the attached receipts.

Applicant signature _____ **Date** _____

For Assistance in completing this form, contact (310) 318-0686 ext 4193

FOR CITY USE ONLY

Date Received: _____

Diversion Rate _____%

Date Approved _____

Date Disapproved _____

Refund _____%

Reviewed by _____

Name

Date

Estimate how much the inert and non-inert demolition debris will weigh in the table below. If any material was measured in units of volume (for example - cubic feet, cubic yards, etc.), convert it to tons using the conversion factors provided.

Conversion factors from volume to tons : Volume x Lbs. / 2,000 = Tons

Note: Diverted = Recycled + Reused
Generated = diverted + disposed

Material	Recycled	Reused	Disposed	Total Quantity Generated	Facility Used/Destination
	Tons	Tons	Tons	Tons	
INERT MATERIALS					
Asphalt 1yd3 = 1,380 lbs.					
Brick 1yd3 = 3,024 lbs.					
Concrete 1yd3 = 1,855 lbs.					
Dirt 10yd3 = 18,900 lbs.					
Glass 1yd3 = 2,160 lbs.					
Rock 1yd3 = 2,570 lbs.					
Tile (ceramic) 1yd3 = 1,214 lbs.					
Other:					
INERT SUBTOTAL					
NON-INERT MATERIALS					
Cardboard, paper 1yd3 = 100 lbs.					
Carpet/Carpet Padding 1yd3 = 84.4 lbs.					
Green Waste 40yd3 = 4,320 lbs.					
Gypsum/Dry Wall 1yd3 = 3,834 lbs.					
Metals 1yd3 = 906 lbs.					
Mixed C&D (commingled, recyclable)					
Wood (lumber, doors, etc.) 1yd3 = 329.5 lbs.					
Other:					
Non-Inert Subtotal					
TOTALS					

Fill in the following blanks to determine if you have diverted at least 50% of the material generated by your project:

Inert
Total Recycled _____ + Total Reused _____ = _____ / Total Quantity Generated = _____ x 100 = _____%

Non-Inert
Total Recycled _____ + Total Reused _____ = _____ / Total Quantity Generated = _____ x 100 = _____%