

Construction and Demolition Recycling and Reuse Ordinance

REQUIREMENTS

The County of Los Angeles Code of Ordinances for Title 20--Utilities, Chapter 20.87-Construction and Demolition (C&D) Debris Recycling and Reuse, regulates the recycling, reuse, and disposal of construction and demolition debris to further the County's efforts to achieve the waste diversion goals in the County's Zero Waste Plan and the Our County Sustainability Plan, comply with new state regulations, and reduce illegal dumping.

POLICY AND GUIDELINES

Los Angeles County Code, Chapter 20.87, regarding the Recycling and Reuse of Construction and Demolition Debris (hereafter "Ordinance"), requires the Director of Public Works to establish policies, procedures, and guidelines consistent with this chapter. The attached C&D Recycling and Reuse Guidelines include:

- Information that an applicant must include in a Recycling and Reuse Plan (RRP);
- Method for estimating the amount of C&D debris a project generates;
- Procedures for calculating the refundable project deposit;
- Procedures to complete a Final Compliance Report (FCR) and receive a refund of the refundable project deposit;
- Approval requirements for C&D debris facilities;

Summary of Requirements for Recycling, Reusing and Disposing of C&D Debris under Chapter 20.87.

1. At least seventy percent (70%) of mixed debris (i.e., C&D debris other than soil or land clearing debris, but including inert debris) must be recycled or reused. In addition, C&D debris that is not required to be recycled or reused must be properly disposed.
2. One hundred percent (100%) of land clearing debris such as shrubs, trees, tree trunks and incidental soil, and rock, shall be recycled or reused pursuant to Section 5.408.3 of the 2016 CalGreen Building Code.
3. One hundred percent (100%) of project C&D debris consisting of soil debris must be properly managed through recycling, reuse, and/or disposal in an Inert Debris Engineered Fill Operation ("IDEFO"). To the extent practicable, soil debris that is removed from a project site may not be commingled with other project C&D debris.
4. One hundred percent (100%) of all universal waste such as thermostats that contain mercury, fluorescent bulbs, and light ballast generated from the alteration and renovation of a nonresidential building or tenant space must be properly managed pursuant to Section 5.408.2 of the 2016 CalGreen Building Code.

If Public Works determines that it is not reasonably feasible for an applicant to divert C&D debris from disposal at the above-stated rates for a specific project, Public Works may approve a lower recycling and reuse rate for that project. For example, for a project

generating a large amount of hard-to-recycle debris such as palm tree waste, Public Works may approve a lower recycling and reuse rate than the rate specified above.

Applicability

The recycling and reuse requirements of the Ordinance apply to the following types of work:

- Any work that requires a permit pursuant to the Los Angeles County Building Code, including construction, demolition, renovation, tenant improvement, and grading/excavation work.
- Any work that is within a county highway, publicly owned flood control facility, or other public right of way that generates C&D debris, regardless of whether it requires a permit under the Building Code.

Exemptions

The following categories of projects are exempt from the requirements of the Ordinance and applicants for permits for these projects are not required to submit a RRP application:

- The project consists solely of granting a permit or certificate of conformance for an existing structure and does not involve any construction or demolition work.
- The project consists of the construction of billboards, antennae, communication or transmission towers, and modular buildings that does not involve the demolition or reconstruction of an existing structure
- The project consists of constructing or remodeling a structure that is predominately vertical, such as a building, shed or carport, that is no larger than four hundred (400) square feet.
- Demolition of fire damaged structures. Construction of replacement structure is not exempt.
- The project consists of work which is determined by Public Works to be necessary to protect the public health or safety in direct response to an emergency or disaster proclaimed by the appropriate federal, state or local official, or governing body.

Debris that consists of hazardous material, including universal waste, and materials containing lead and asbestos, are not considered to be "C&D Debris" that is required to be recycled or reused in accordance with the C&D Debris Recycling and Reuse Ordinance, but the applicant must demonstrate that such material was properly handled and disposed.

Construction and Demolition Recycling and Reuse Guidelines

The purpose of these Construction and Demolition (C&D) Recycling and Reuse Guidelines is to provide standards, guidelines, and criteria for compliance with the C&D Recycling and Reuse ordinance, which is set forth in Chapter 20.87 of the Los Angeles County Code ("Ordinance").

A. Definitions

The following additional definitions apply to terms used in these Guidelines. Additional terms that are defined in the Ordinance have the same meaning in these Guidelines.

"EPD" means the Environmental Programs Division of Public Works.

"Facility-Average Recycling Rate" means the rate at which a Mix C&D recycling facility is able to divert C&D Debris from the landfill.

"Land clearing debris" means debris consisting of trees, stumps, rocks, other associated vegetation, and soils resulting primarily from land clearing.

"Mixed debris recycling facility" means a C&D waste processing facility that accepts loads of commingled C&D debris for the purpose of recovering reusable and recyclable materials and disposing the nonrecyclable residual materials.

"Mixed debris" means C&D debris that does not consist of soil debris or land clearing debris.

"Provisional Facility" refers to a Mixed C&D Recycling Facility that is in the process of becoming an Approved C&D Recycling Facility. Such facility must be able to provide written documentation showing that the facility is making an objectively reasonable and good-faith effort to become certified by a Qualified Third-Party Organization. A facility may be designated as a Provisional Facility for no more than 12 months.

"Public Works" means Los Angeles County Public Works.

"Qualified Third-Party Organization" refers to an organization, as approved by Public Works, that certifies the Facility-Average Recycling Rate of Mixed C&D Recycling Facilities. Minimum certification requirements are described in Section F of the guidelines.

"Soil debris" means C&D debris consisting of non-putrescible solid material that consists only of soil, rock, gravel, sand, clay, or similar material removed during grading and excavation, that is not mixed with other types of C&D debris or solid waste, and that does not contain hazardous waste, radioactive waste, or medical waste. Soil debris does not

include soil, rock gravel, sand, clay, and similar material that is reused on site in accordance with a valid grading permit.

"Third-Party Verification" refers to the process by which a Qualified Third-Party Organization reviews and verifies the Facility-Average Diversion Rates of a Mixed C&D Recycling Facility through a certification program that meets the minimum requirements described in Section F of the guidelines.

B. Submitting a Recycling and Reuse Plan (RRP)

A project applicant shall provide all of the information required in the RRP application (Appendix 3) and submit the applicable Refundable Project Deposit to EPD (the Refundable Project Deposit is discussed in Section D of these Guidelines).

At a minimum the applicant shall provide the following information on the RRP application:

1. How all of the C&D Debris that the project generates will be recycled, reused or disposed.
- The RRP must state the name and location of every recycling facility, Inert Debris Engineered Fill Operation (IDEFO), construction site, disposal facility, or other location to which the applicant plans to take C&D debris generated from the project.
 - Mixed debris will be counted towards the 70 percent that is required to be recycled or reused if it is taken to one of the following facilities or reused in the following ways:
 - An approved C&D recycling facility, including a mixed debris recycling facility which has been provisionally approved (See Section F of these Guidelines). A current list of approved C&D recycling facilities, which will be considered to be provisionally approved for up to one year after the effective date of the Ordinance, is provided at the following link: https://pw.lacounty.gov/epd/CD/cd_attachments/Recycling_Facilities.pdf;
 - A composting or conversion technology facility that is acceptable to Public Works for recycling C&D Debris consisting of organic material;
 - C&D material that is deconstructed or otherwise preserved as usable building material may be reused either on-site or at another construction project or delivered to a non-profit organization, such as Habitat for Humanity;
 - A Municipal Solid Waste (MSW) landfill if the landfill operator provides the applicant with documentation satisfactory to Public Works demonstrating that the material is not being disposed, but that it is beneficially reused. For example, Public Works will accept the same documentation as required by the Solid Waste Management Fee Ordinance (Chapter 20.88) and its Standards, Guidelines, and Criteria for exemption;

- Another facility or site for which the applicant submits reliable evidence, as determined by Public Works, that the facility or site will recycle or reuse the project C&D debris at a rate that complies with the Ordinance.
 - Soil may be taken to any of the above facilities as appropriate and also to the following:
 - A construction site that will use it for grading purposes and
 - An IDEFO for proper disposal.
 - Land clearing debris may be taken to the following:
 - Any Mixed C&D Recycling facility that can process land clearing debris.
 - Any Conversion Technology Facility that accepts land clearing debris and that is approved by Public Works and
 - Any other facility approved by Public Works that processes land clearing debris, such as green waste.
 - If a project generates hazardous or contaminated materials that cannot be recycled, reused, or disposed at an IDEFO, such materials must be taken to an appropriate facility that accepts hazardous or contaminated material. These materials do not count toward the total C&D Debris that must be recycled or reused.
 - Universal waste must be taken to an appropriate facility that accepts universal waste and is not counted toward the total C&D Debris that must be recycled or reused.
 - If a project is expected to generate hazardous waste or universal waste, the RRP must indicate the facility to which this material will be taken.
- The RRP must identify the type and quantity of material that the applicant intends to take to each such facility.
 - The RRP must account for all C&D debris that will be generated from the project, including material that is recycled, reused, and disposed in an IDEFO and identify the facility where it will be recycled, reused, or disposed.
 - For C&D debris that the applicant plans to dispose in a facility that is not an IDEFO, the applicant must identify the disposal facility where the applicant plans to dispose of such material.
 - The RRP application must indicate, which hauling option the applicant intends to use to transport all such C&D debris. If the applicant intends to self-haul some or all of the C&D debris, indicate the type of vehicle that will be used and identify the owner of the vehicle. (List of Commercial Franchise Haulers authorized to collect C&D Debris: <https://pw.lacounty.gov/epd/swims/TrashCollection/docs/AuthorizedCommercialWasteHaulers.pdf>)
2. EPD will review the RRP application and verify that:
- The applicant acknowledges that the applicant is subject to the requirements of the Ordinance and understands that some or all of the refundable project deposit will be forfeited if the applicant does not comply.

- The estimate of C&D debris is consistent with the formula set forth in the RRP application for calculating the amount of C&D debris. If the estimate deviates from the formula, the applicant must either correct the estimate or provide a satisfactory explanation for why the applicant's estimate deviates from the formula. (Note: EPD's approval of an RRP application does not guarantee that the estimate of C&D debris is accurate. It is the applicant's responsibility to correctly estimate the amount of C&D debris and to revise the RRP once such party learns that the estimate is not correct.)
 - The applicant has paid the applicable refundable project deposit and calculated pursuant to the methods set forth in Section D of these Guidelines.
 - Payment can be made to Public Works in the following manner:
 - Online via the EPIC LA system at: <https://epicla.lacounty.gov/SelfService/#/home>
 - Via Cash or Check submitted in person to the cashier at:
Los Angeles County Public Works
Headquarters, Cashier's Office
900 South Fremont Avenue
Alhambra, CA 91803-1460
 - Check or Money Order payments can also be mailed to :
Los Angeles County Public Works
Cashier Office
P.O. Box 14601
Alhambra, CA 91802-1460
 - Checks should be made payable to "County of Los Angeles"
 - The RRP sets forth how all of the C&D debris and hazardous materials/universal waste that the project is expected to generate will be recycled, reused, or disposed in accordance with the Ordinance and other applicable laws.
 - The facilities that the applicant has identified for the recycling, reuse or disposal of C&D debris have been approved in accordance with or are otherwise consistent with the requirements of the Ordinance and these Guidelines.
 - The applicant has identified a hauling option for transporting the C&D debris.
 - The RRP demonstrates the following:
 - At least 70 percent of mixed debris will be recycled or reused
 - 100 percent of the soil debris, will be properly managed through recycling, reuse, or disposal in an IDEFO
 - 100 percent of land clearing debris will be recycled or reused
 - Hazardous materials and universal waste will be properly managed
3. If any information is missing from the RRP, EPD will return the application to the applicant to make corrections.

4. If EPD determines that it is not reasonably feasible for an applicant to divert C&D debris from disposal at the rates specified in the Ordinance for a specific project, EPD may approve a lower recycling and reuse rate for that project. For example, for a project generating a large amount of hard-to-recycle debris, such as palm tree waste EPD may approve a lower recycling and reuse rate.
5. Once EPD determines the RRP is complete and all applicable deposits are paid, EPD will approve it and provide a copy of the approved RRP to the applicant. The applicant is responsible for providing a copy of the approved RRP to Building and Safety Division or any other agencies that request a copy.

Amending the RRP

If an applicant who has submitted an RRP subsequently learns that information contained in the RRP is incorrect or has changed, such applicant is required to notify EPD and submit an amended RRP to EPD. Any amendment that increases the estimated C&D debris that the project will generate will require an additional Refundable Project Deposit prior to approval of the amendment.

C. Estimating the amount of C&D debris that a project generates

The applicant shall estimate the amount of C&D debris their project is expected to generate by following the instructions below, which are also set forth in the sample Recycling and Reuse Plan (RRP) Application Package.

The quantity of project C&D debris to be recycled shall be determined by weight. Project C&D debris that cannot feasibly be weighed and that is measured and reported based on volume shall be converted to a weight-based unit of measurement using County-approved Volumetric-to-Weight conversion tables (Appendix 1).

The estimated weight of project C&D debris shall be calculated by measuring the square footage of the project area and multiplying that square footage by a debris generation factor derived from the U.S. Environmental Protection Agency 2003 Report¹. The debris factors can be found in the table in Appendix 2. The factors may be adjusted on a case-by-case basis depending on the project scope to obtain more accurate estimates. The applicant must provide documentation to support any proposed adjustment to the calculations.

The Recycling and Reuse Plan must include the estimated project C&D debris broken down as follows:

- Estimated weight for soil debris,
- Estimated weight for inert debris,
- Estimated weight for land clearing debris,

¹ Estimating 2003 Building-Related Construction and Demolition Materials Amounts, <https://www.epa.gov/smm/estimating-2003-building-related-construction-and-demolition-materials-amounts>

- Estimated weight for all other remaining project C&D debris, and
- Combined estimated total weight of all project C&D debris.

D. Calculating the Refundable Project Deposit

Deposit Schedule

Estimated tonnage	Deposit amount
up to 1 ton	\$ 500.00 (fixed deposit)
>1 ton, up to 15 tons	\$ 60.00 per ton
>15 tons, up to 45 tons	\$ 45.00 per ton
>45 tons	\$ 30.00 per ton
\$100,000 max deposit amount	

Unless a project is exempt from paying the refundable project deposit, the amount of the deposit is calculated as follows on the amount of C&D debris that a project is expected to generate:

- \$500 for the 1st ton or portion thereof. Plus;
- \$60 per ton for each additional ton, starting with the 2nd ton up to the 15th ton. Plus;
- \$45 per ton for each additional ton, starting with the 16th ton up to the 45th ton. Plus;
- \$30 per ton for any remaining C&D debris above the 45th ton.

Example calculation:

This example shows the calculation for estimating the tonnage of C&D debris that a project will generate, and then calculating the refundable deposit amount. Assuming an applicant is converting an existing 450 square foot garage to an Accessory Dwelling Unit (ADU) and removing a 974 square foot driveway.

First the estimated project tonnage is calculated as shown below.

$$450 \text{ square foot garage} \times .0117 \text{ tons/square foot (from conversion table Appendix 2)} = 5.26 \text{ tons}$$

$$974 \text{ square foot} \times 0.01 \text{ tons/square foot (Appendix 2)} = 9.74 \text{ tons}$$

$$\text{Total project estimated tons} = 5.26 \text{ tons} + 9.74 \text{ tons} = 15 \text{ tons}$$

Next, using the refundable deposit schedule above for the amount of 15 tons and the refundable deposit amount can be calculated as shown in the table below.

Estimated tonnage	Deposit amount	Deposit amount
Zero up to 1 ton	\$ 500.00 (fixed)	\$500.00
>1 ton, up to 15 tons	\$60.00 x 14 tons	\$840.00
>15 tons, up to 45 tons	\$45.00 x 0 Tons	\$0.00
>45 tons	\$30.00 x 0 Tons	\$0.00
		Total: \$1,340

E. Completing a Final Compliance Report and Refund of Refundable Project Deposit

After the completion of the project, the applicant must submit a Final Compliance Report (FCR). The FCR must be submitted with weight tickets or other documentation satisfactory to EPD to substantiate the amount of project C&D debris the applicant recycled, reused, or disposed, in accordance with the approved RPP and the Ordinance.

The FCR must include the total project C&D debris generated, recycled, or reused or disposed broken down as follows:

- Weight of all soil debris generated
- Weight of all inert debris generated
- Weight of all land clearing debris generated
- Weight for all other project C&D debris generated (i.e., mixed debris other than inert debris)
- Combined total weight of all project C&D debris that the project generated,
- Weight of all soil debris recycled or reused
- Weight of all inert debris recycled or reused
- Weight of all land clearing debris recycled or reused
- Weight for all other project C&D debris recycled or reused (i.e., mixed debris other than inert debris).
- Combined total weight of all project C&D debris that the project recycled or reused
- The weight of the soil debris that was disposed in an IDEFO; and
- The weight of project C&D debris, other than soil debris that was disposed.

If only volumes of C&D debris are available, then weights must be calculated using the conversion values set forth in the table in Appendix 1.

Along with the FCR the applicant must:

- Submit copies of receipts from every facility that collected, transported, or received any project C&D debris. Each receipt must specify the weight of any project C&D debris handled or received by the facility and must clearly demonstrate that all such C&D debris originated from the project site.
- Submit any other documentation, such as pictures, plans, and amendments that validate how C&D debris was managed.
- Certify under penalty of perjury, that the information contained in the FCR is correct to the best of the applicant's knowledge.

After the applicant submits the FCR, EPD reviews it and determines whether the applicant properly recycled, reused, and/or disposed of all C&D debris and other material in accordance with the approved RPP and the Ordinance.

If EPD determines that the FCR is incomplete or is missing documentation EPD shall notify the applicant, provide such applicant with the opportunity to correct any deficiencies, and inform the applicant of the time limit that such applicant has to correct the deficiencies.

If EPD determines that the applicant has not provided sufficient documentation to show that all of the Project C&D Debris, along with hazardous materials ,and universal waste were properly recycled, reused, and/or disposed within one year of the completion of the project, plus any additional time provided by Public Works for the correction of any deficiencies, or if the documentation indicates that the project C&D debris, hazardous materials, and universal waste were not properly recycled, reused, and/or disposed, EPD will calculate the applicable penalty in accordance with Section 20.87.090B of the Los Angeles County Code:

Administrative Penalty Schedule

Tons of C&D not recycled and not reported	Administrative Penalty Amount
Zero up to 1 ton	\$ 100.00
>1 ton, up to 15 tons	\$ 60.00 per ton
>15 tons, up to 45 tons	\$ 45.00 per ton
>45 tons	\$ 30.00 per ton

Within sixty (60) days of the submittal of the FCR that EPD determines to be complete, Public Works will refund the deposit less the amount of any fines imposed for violation of the requirements of the Ordinance in accordance with Section 20.87.090 of the Los Angeles County Code, calculated as follows:

- \$100 fixed base amount for C&D debris not properly recycled, reused, or disposed in accordance with the requirements of the Ordinance or and these Guidelines, up to the 1st ton (unless the project is exempted). Plus;
- \$60 per ton for each additional ton of C&D debris not properly recycled, reused, or disposed, starting with the 2nd ton up to the 15th ton. Plus;
- \$45 per ton for each additional ton of C&D debris not recycled or reused starting with the 16th ton up to the 45th ton. Plus;
- \$30 per ton for any remaining C&D debris above the 45th ton not recycled or reused.

Project C&D debris that is not accounted for will be deemed not to have been properly recycled, reused, or disposed, and will result in an administrative fine that will be deducted from the refundable project deposit.

Example calculation:

A contractor's approved RRP shows 15 tons of C&D debris (not including soil or land-clearing debris) would be generated, resulting in a refundable project deposit amount of \$1,340 (see previous example).

Seventy percent of the estimated weight must be recycled or reused. Seventy percent of 15 tons amounts to 10.5 tons. The contractor submits an FCR with weight tickets from a County approved C&D recycling facility that accounts for 5.5 tons and weight tickets from a disposal facility for 4.5 tons out of the total 15 tons of recyclable C&D debris. How is the penalty calculated?

5.5 tons of debris recycled out of the required 10.5 tons. Total not recycled: 5 tons

10.5 tons out of 15 tons reported. Total not reported: 4.5 tons

Total tonnage in violation: 9.5 tons (rounded up to 10 tons, because the penalty applies to each ton or portion thereof that is not properly recycled, reused, disposed, or accounted for).

The Administrative Penalty is calculated as follows:

Tonnage Not Recycled/Reused or not Substantiated	Administrative Penalty Formula	Administrative Penalty Amount
Zero up to 1 ton	\$100.00 (fixed)	\$100.00
>1 ton, up to 15 tons	\$60.00 x 9 tons	\$540.00
>15 tons, up to 45 tons	\$45.00 x 0 Tons	\$0.00
>45 tons	\$30.00 x 0 Tons	\$0.00
		Total: \$640.00

The Administrative Penalty amount will be deducted from the refundable project deposit amount. So, the amount that will be refunded to the applicant will be \$1,340 minus the Administrative Penalty amount of \$640, resulting in \$700 being returned to the applicant.

The maximum penalty amount shall not exceed the amount of the refundable deposit, which shall in no event exceed \$100,000.

F. Approval Requirements for Construction and Demolition (C&D) Debris Facilities

Public Works will maintain a list of Approved C&D Recycling Facilities, and Provisional Facilities that are approved to receive C&D debris in compliance with the C&D Ordinance. C&D facilities that were on the C&D recycling facility list prior to the effective date of the revised C&D Ordinance will remain on the list as conditionally approved and will have one year to become Approved C&D Recycling Facilities.

Mixed C&D Debris Recycling Facility

Mixed C&D debris recycling facilities must apply for third-party verification from a qualified third-party organization approved by Public Works in order to be placed on Public Works list of approved C&D facilities with the status of Provisional Facility. (Facilities that are on the list, as of the effective date will automatically be considered to be Provisionally Approved as of the effective date but must submit an application for certification with an

approved third-party facility and become fully approved within one year of the effective date.) Provisional Facilities will have one year to complete the certification process in accordance with the protocols and standards of an approved qualified third-party organization.

Upon completion of third-party verification, and if the certification demonstrates that its Facility-Average Recycling Rate is equal to or above the rate required in the Ordinance, the facility will be classified as an approved C&D Recycling Facility. In order to remain on the Public Works list of approved facilities, C&D debris recycling facilities must remain certified with a qualified third-party organization that verifies, on at least a quarterly basis, that its Facility-Average Recycling Rate is equal to or above the rate required by the Ordinance. If a C&D debris recycling facility fails to continue with the certification process with a qualified third-party organization, the facility will be removed from the Public Works list of approved facilities. C&D debris recycling facilities, which have been removed from the Public Works list of approved facilities and have reapplied for third-party verification must begin the process of being placed on the Public Works list of approved facilities before obtaining status as an approved facility as described above. A Provisional Facility that has reapplied after allowing its third-party organization certification to lapse must demonstrate that its Facility-Average Recycling Rate is equal to or above the rate required in the Ordinance prior to being reinstated as an approved facility.

A Mixed C&D facility typically:

- Accepts wood, drywall, roofing materials, metals, glass, etc.
- May accept soil debris, inert debris, and/or land clearing debris to the extent that it is permitted to process and recycle such material.

In order to be approved by Public Works, Mixed C&D debris recycling facilities shall submit the following information to Public Works for review and approval.

- Certification documentation from a qualified third-party organization demonstrating that its Facility-Average Recycling Rate is equal to or above the rate required in the Ordinance (i.e., 70 percent for mixed debris).
- Provide access to and/or submit supporting documentation used by third-party organization to substantiate recycling rate and achieve certification.
- Local Land Use Planning Department permit (only to verify the activity identified on the permit is consistent with the proposed recycling activity and if there is any restriction on the land use permit)
- CalRecycle permit from the Local Enforcement Agency verifying the type of facility.
- A formal letter on company letterhead requesting to be placed on Public Works approved C&D recycling facility list as an approved C&D debris recycling facility.
- List of debris/categories accepted at the facility and a brief description explaining how each debris/category is processed at the facility.

Inert Debris Only Recycling Facility

Facilities recycling inert debris only are eligible to be on Public Works list of approved facilities if they have obtained all required permits and are in good standing with State and local enforcement agencies.

An Inert debris recycling facility typically:

- Crushes asphalt and/or concrete for sale as crushed miscellaneous base or other product.

In order to be approved by Public Works, an inert debris recycling facility shall submit the following information to Public Works for review and approval.

- Local Land Use Planning Department permit (only to verify the activity identified on the permit is consistent with the proposed recycling activity and if there is any restriction on the land use permit).
- CalRecycle permit from the Local Enforcement Agency verifying the type of facility.
- A formal letter on company letterhead requesting to be placed on Public Works approved C&D facility list.
- List of debris/categories accepted at the facility and a brief description explaining how each debris/category is processed at the facility.

Land Clearing Debris Only Recycling Facility

Facilities recycling land clearing debris only are eligible to be on the Public Works list of approved facilities if they have obtained all required permits and are in good standing with State and local enforcement agencies.

A land clearing debris recycling facility typically:

- Processes green waste and waste from clearing and grubbing activities

In order to be approved by Public Works, a land clearing debris recycling facility shall submit the following information to Public Works for review and approval.

- Local Land Use, Planning Department permit (only to verify the activity identified on the permit is consistent with the proposed recycling activity and if there is any restriction on the land use permit).
- CalRecycle permit from the Local Enforcement Agency verifying the type of facility.
- A formal letter on company letterhead requesting to be placed on Public Works approved C&D facility list
- List of debris/categories accepted at the facility and a brief description explaining how each debris/category is processed at the facility.

Inert Debris Engineered Fill Operation (IDEFO)

An IDEFO is eligible to be on the Public Works list of approved facilities for acceptance of soil debris if it has obtained all required permits and are in good standing with State and local enforcement agencies.

An IDEFO is only an approved facility for the acceptance of soil. Inert debris, other than soil, that is placed in an IDEFO will not count toward the 70 percent recycle and reuse rate that applies to mixed debris, including inert debris.

In order to be approved by Public Works an IDEFO shall submit the following information to Public Works for review and approval.

- A formal letter on company letterhead requesting to be placed on Public Works approved C&D facility list.
- Waste Discharge Requirements order which has been issued to the facility from the State of California Water Boards for the disposal of Inert Debris.
- Procedure for checking loads at entrance gate.

MSW Landfill

A MSW Landfill is eligible to be on the Public Works list of approved facilities if it has obtained all required permits and is in good standing with State and local enforcement agencies. Material taken to a MSW landfill will be considered to be recycled or reused for purposes of the C&D Recycling and Reuse ordinance if the operator provides the applicant with documentation demonstrating to the satisfaction of Public Works, that the material is being recycled or beneficially reused.

Other C&D Debris Recycling Facility

Public Works has discretion to approve other types of facilities in cases where the applicant demonstrates that the C&D debris recycling facility will recycle the project C&D debris at a rate that complies with the Ordinance.

G. Qualified Third-Party Organizations

In order for Public Works to approve a Qualified Third-Party Organization to certify a C&D debris facility's Facility-Average Recycling Rates for C&D debris, such Qualified Third-Party Organization shall adhere to the following protocols:

- Recycling facilities submit data to the certification organization that enables the certification organization to determine the Facility-Average Recycling Rate, such as total tons in and total tons out for a twelve-month period, or if not possible, quarterly (or a frequency approved by Public Works).
- The data submitted by the recycling facility must include a breakdown of materials (by type and by weight), including analysis of supporting data relating to amounts (in tons) and types of materials received and processed at the facility.

- If the data submitted by the recycling facility is not, in the determination of the certification agency, sufficient to determine the Facility-Average Recycling Rate, the certification agency must request that recycling facility provide additional data and information requested by the certification agency.
- The certification organization must verify the accuracy of the data submitted by the recycling facility that the certification organization uses to evaluate the Facility-Average Recycling Rate. The verification must include, at a minimum: The evaluation of recyclables sales records, verification of facility sales into commodity markets, monitoring off-site movement of materials, and a review of the customer's weight tickets.
- At a minimum, the certification organization conducts an on-site visit of the facility for the first-year certification, with subsequent site visits occurring at least once every two (2) years, unless additional visits are deemed necessary by the certification organization. The site visit will include:
 - Examination of how materials enter, are measured, deposited, processed/sorted and exit facility,
 - Interviews with key personnel,
 - Confirmation of equipment types and capacity,
 - Observation and verification of load/materials sorting and accuracy,
 - Verification of the use and accuracy of scales including calibration frequency.
- Certification organizations must monitor verified facilities to ensure that the facilities are operating legally and meeting the minimum requirements for facility certification and recycling rates.
- Certification organizations shall provide recycling rates for Mixed C&D recycling facilities that adhere to the following requirements:
 - Measurements must be based on weight (not volume), using scales.
 - The facility's recycling rates must be available on a website and viewable by the general public.
 - Facility recycling rates shall be provided with and without ADC/Beneficial Reuse.

APPENDIX 1

Volume to Weight Conversion Factors

This table should be used as a tool when material cannot feasibly be weighed.

Note: 1 ton = 2,000 lb.

Conversion Table

Material Type	Pounds per cubic yard
Asphalt/Paving, Crushed	1,380
Brick, Common Hard	3,199.5
Brick, Whole	3,024
Cardboard, Paper	100
Ceramic Tile, lose 6" x 6"	1,214
Concrete, Scrap, Loose	1,855
Glass	2,160
Gypsum, Drywall	3,834
Metals	906
Plastic	22.55
Soil, Dry	2,025
Soil, Wet	2,106
Stone or Gravel	2,632.5
Rock, Loose	2,570
Metal Scrap	906
Wood Scrap, Loose	329.5

Conversion factors are those used by CalRecycle.

EXAMPLE

A 30 cubic yard bin full of loose scrap should weigh 9,885 pounds (30cy X 329.5lb/cy), which is equivalent to 4.94 tons (since 1 ton = 2,000lb).

APPENDIX 2

Debris Generation Estimation Factors for a project

This table is used to estimate how much C&D debris will be generated by a project based on the dimensions of a project scope.

Conversion Table

Project Scope	Demolition – Estimated tons of debris generated per square foot	Construction – Estimated tons of debris generated per square foot
Residential - House (SFR, ADU, addition, etc.)	0.0635	0.002
Residential - Garage/Carport	0.035	0.001
Residential - Patio/Gazebo	0.0015	-
Residential - Storage shed	0.0045	-
Non-Residential - Wood Frame/Metal Structure	0.08	0.002
Non-Residential - Concrete/Masonry Structure	0.1	0.002
Driveway/Parking lot/Walkway	0.01	-
Renovation/remodel/conversion/ legalization	-	0.0117
Tenant Improvement	-	0.0056

If only walls are to be removed, then the following factors will be used to estimate how much debris will be generated.

Type of wall to be removed	Debris generation rate
Interior wall (dry wall, etc.)	0.006 tons per linear foot
Exterior wall (stucco, etc.)	0.005 tons per linear foot
Block/cinder wall (retaining walls, etc.)	0.029 tons per cubic foot

Grading/Excavation Activity

Soil amounts are calculated separately at an estimated generation rate of 1.35 tons per cubic yard, unless more details about the project are presented.

Conversion factors are based on a 2003 report by U.S. Environmental Protection Agency titled "Estimating 2003 Building-Related Construction and Demolition Materials Amounts." For more information about this report, please visit: <https://www.epa.gov/smm/estimating-2003-building-related-construction-and-demolition-materials-amounts>

APPENDIX 3

Construction and Demolition Debris Forms

- 1. Recycling and Reuse Plan (RRP)**
- 2. Amendment Form**
- 3. Attachment 1 (County Projects)**
- 4. Final Compliance Report (FCR)**

DRAFT



L.A. County requires C&D debris from projects in County unincorporated areas to be diverted from landfills in accordance with Chapter 20.87 of the L.A. County Code or the most recent CalGreen Manual (the more stringent of the two). Additional information is available online at www.LACountyCND.com. If you have any further questions, please call **(626) 458-3517**

When completed, submit this form and all appropriate attachments by one of the following methods:

- **By E-mail to:** CND@pw.LACounty.gov
- **By Mail to:**
 Los Angeles County Public Works
 Environmental Programs Division
 P.O. BOX 1460
 Alhambra, CA 91802-1460
- **In person to:**
 Los Angeles County Public Works
 Annex Bldg., 3rd Floor
 900 South Fremont Avenue
 Alhambra, CA 91803
 Monday—Thursday, 7:00am-5:00pm
- **By Fax to:** (626) 270-4066

STEP 1: Project Details— An asterisk (*) denotes a required field	
Address*:	
City*:	Zip*:
Parcel Number:	Plan Check Number:
Estimated Start Date*:	Estimated End Date:

STEP 2: Project Scope – Provide a description of the scope of work

STEP 3: Project Type – Choose all types below that apply to the project
<input type="checkbox"/> Residential Project – Complete Pages 1 through 5 <input type="checkbox"/> Non-residential Project – (Commercial, Industrial, Mixed use, etc.) Complete Pages 1 through 5 <input type="checkbox"/> County-managed Project – Complete Pages 1 through 5 AND Attachment 1
Will grading/excavation of soil be involved with this project? <input type="checkbox"/> Yes <input type="checkbox"/> No

FOR PUBLIC WORKS USE ONLY	
RRP ID: _____ Approved by (Print): _____ <input type="checkbox"/> Exempt, Reason: _____ Approval Date: _____ Approver Signature: _____	Date Received:
<p style="color: red; font-weight: bold;">Failure to provide a FINAL COMPLIANCE REPORT, including all necessary documentation, within 45 days of completion of the project may incur a PENALTY OF UP TO \$50,000.</p> Notes/Comments:	



STEP 4: Contact Information— An asterisk (*) denotes a required field			
Applicant Information			
Name:		Company:	
Address:			
City:		Zip:	
Phone:		Fax:	
E-mail:			
Relation to project (Check one below):			
<input type="checkbox"/> Owner	<input type="checkbox"/> Contractor	<input type="checkbox"/> Project Manager	<input type="checkbox"/> Other, Specify:
Owner Information			
Name*:		Company:	
Address*:			
City*:		Zip*:	
Phone*:		Fax:	
E-mail:			

STEP 5: Acknowledgement of C&D Requirements— Read and sign below if you are the owner, contractor, or project manager assigned to the project.

Unless expressly waived by Public Works, the property owner must sign the signature page below as well as the Owner Acknowledgement of Responsibility form. If a representative of the property owner, such as a contractor, architect, permit runner, etc., is submitting the application on the owner's behalf, such representative must also sign the signature page, but we will not accept an application or approve a Plan that is not signed by the owner. The signature of the property owner is necessary in order to demonstrate that the owner of the subject property acknowledges and understands that a violation of the requirements of the Plan could subject them to penalties, as described below.

Note that any violation of the provisions of Chapter 20.87 of the C&D Debris Recycling and Reuse Ordinance will be subject to an administrative penalty, enforcement, and collection proceedings, as set forth in the chapter and authorized by Section 53069.4 of the California Government Code. The Director of Public Works may withhold approval of any and all Recycling and Reuse Plans submitted by the responsible person on any project until the applicable administrative penalty has been paid. In addition, the amount of any unpaid administrative penalty may be declared a lien on any real property on which the project took place, as provided in Section 20.87.120 of the Ordinance.

The undersigned fully acknowledges the requirements of Chapter 20.87, Title 20 – Utilities of the Los Angeles County Code, C&D Debris Recycling and Reuse Ordinance, Section 20.87.090.

X			
	Signature of Property Owner	Print Name	Date
X			
	Signature of Authorized Contractor	Print Name	Date
X			
	Signature of Project Manager	Print Name	Date



STEP 7: Provide the dimensions of the project below where applicable. For help filling out this attachment, call the C&D unit at (626) 458-3517 or email CND@pw.LACounty.gov

Project Scope	Area to be DEMOLISHED (ft ²)	Area to be CONSTRUCTED (ft ²)
RESIDENTIAL—House (SFR, ADU, addition, etc.)		
RESIDENTIAL—Garage/Carport		
RESIDENTIAL—Patio/Gazebo/Storage Shed		NOT APPLICABLE
NON-RESIDENTIAL—Wood-frame/Metal Structure		
NON-RESIDENTIAL—Concrete/Masonry Structure		
Driveway/Parking Lot/Walkway		NOT APPLICABLE
Renovation/remodel/conversion/legalization	NOT APPLICABLE	
Tenant Improvement		

Walls To be removed	Total length to be removed (ft)
INTERIOR WALLS ONLY	
EXTERIOR WALLS ONLY	
BRICK/CINDER BLOCK WALLS (including retaining walls)	Height (ft): Width (ft): Length (ft):
Other (specify):	

STEP 8: Check the box that best describes the grading/excavation activity of the project. If this does not apply for this project, mark the box labeled "N/A" below then proceed to Step 9.

- Soil will be exported/imported. Include estimated volumes below.
- N/A, Soil will balance on-site. Include estimated volumes to be balanced below.
- N/A, this project will export **contaminated soil**. Call the Methane Unit at (626) 458-3517.
- N/A, this project will not export any soil off-site. Proceed to Step 9.

	Estimated Volume (yd ³)	Estimated Tons (PW USE ONLY)
Cut		** x 1.35 tons/yd ³
Fill		** x 1.35 tons/yd ³

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Total Estimated C&D Debris (Tons)*:	
Min. Estimated C&D Debris to be recycled (Tons):	
Total Estimated weight of soil (Tons):	
MAXIMUM PENALTY FEE OF \$50,000	

* Factors taken from U.S. Environmental Protection Agency. "Estimating 2003 Building-Related Construction and Demolition Materials Amounts." (2003)

** Factors determined by Los Angeles County Public Works (2019).



STEP 9: Choose at least one C&D recycling facility from the list below, then proceed to STEP 10 below. Note the debris that the listed facilities accept. For facilities that manage land clearing debris only, please go to the following link: https://pw.lacounty.gov/epd/CD/cd_attachments/Recycling_Facilities.pdf.

If you represent a facility that would like to be added to the list mentioned above, please contact the C&D Unit at (626) 458-3517 or CND@pw.lacounty.gov

ALL DEBRIS — Wood, drywall, metal, cardboard, Inert Debris, Land Clearing Debris, Soil

Location	Facility Name	Phone
Canyon Country	Randfam/Rent-A-Bin	(661) 250-5333
Gardena	California Waste Services	(800) 839-5550
Lancaster	WM - Lancaster Landfill	(661) 726-3468
Long Beach	American Industrial Services	(800) 500-3881
Los Angeles (Downtown)	WM - Downtown Diversion	(213) 612-5005
Los Angeles (East LA)	Direct Disposal	(323) 262-1604
Los Angeles (near Glendale)	American Reclamation	(323) 245-0125
Palmdale	WM - Palmdale Landfill	(661) 947-7197
Santa Clarita	Burrtec Services	(866) 270-5370
Santa Clarita	Republic Services	(800) 299-4898
Santa Monica	Southern California Disposal	(310) 828-6444
South Gate	Construction and Demolition Recycling, Inc.	(323) 357-6900
Sun Valley	Crown Recycling Services	(818) 767-0675
Sun Valley	WM - East Valley Diversion	(818) 252-0019

INERT DEBRIS ONLY — Asphalt, asphalt concrete, concrete, concrete blocks, gravel, rocks, soil

Location	Facility Name	Phone
Lancaster	Arrow Transit Mix, Inc.	(661) 945-7600
Long Beach (North)	Hanson Aggregates	(626) 856-6700, Option 1
Long Beach (South)	Hanson Aggregates	(636) 856-6700, Option 1
Los Angeles (Boyle Heights)	Security Paving Company, Inc. (formerly 25th Street Recycling)	(818) 362-9200
Monrovia	Peck Road Gravel	(626) 574-1855
Sun Valley	Vulcan Materials	(818) 983-0146
Sun Valley	RAMCO	(818) 767-0700
Sun Valley	Security Paving company, Inc. (formerly Bradley Recycling)	(818) 362-9200

NOTES:

STEP 10: Choose one of the County-approved hauling options below.

- [OPTION 1] **Self-Haul:** Applicant will use a personal or company-owned vehicle to transport all C&D debris to the facility indicated in Step 9 of this Application Form.
- [OPTION 2] **Roll-off Bins:** Applicant will use roll-off bins provided by a hauler listed on the County Authorized Waste Hauler list that can be found online at the following link: <https://pw.lacounty.gov/epd/swims/TrashCollection/docs/AuthorizedCommercialWasteHaulers.pdf>
Name & number of hauler to be used:
- [OPTION 3] **End Dump Truck:** Applicant will contract hauling of material to a trucking company.
Name & number of company to be used:



If there are any changes in the project scope as described in the latest Recycling and Reuse Plan, please fill out this form and submit using one of the following methods:

- **By E-mail to:** CND@pw.LACounty.gov
- **By Mail to:**
Los Angeles County Public Works
Environmental Programs Division
P.O. BOX 1460
Alhambra, CA 91802-1460
- **In person to:**
Los Angeles County Public Works
Annex Bldg., 3rd Floor
900 South Fremont Avenue
Alhambra, CA 91803
Monday—Thursday, 7:00am-5:00pm
- **By Fax to:** (626) 270-4066

STEP 1: RRP Information— Please list all pertinent changes to the scope of work below.

RRP ID Number:

Project Address, City, ZIP:

List all changes to the project scope, including new end date, if applicable:

STEP 2: Applicant Information

Name	Company		
Address:			
City:	ZIP Code:		
Phone:	Fax		
E-mail:			
Relation to project (Check one below):			
<input type="checkbox"/> Owner	<input type="checkbox"/> Contractor	<input type="checkbox"/> Project Manager	<input type="checkbox"/> Other, Specify:

STEP 3: Acknowledgement of C&D Requirements— *Read and sign below if you are the owner, contractor, or project manager assigned to the project.*

The undersigned fully acknowledges the requirements of Chapter 20.87, Title 20 – Utilities of the Los Angeles County Code, C&D Debris Recycling and Reuse Ordinance, Section 20.87.090.

X	Signature of Property Owner	Print Name	Date
X	Signature of Authorized Contractor	Print Name	Date
X	Signature of Project Manager	Print Name	Date

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Approved by (Print): _____

Approval Date: _____

Approver Signature: _____

Date Received:

Construction and Demolition Recycling and Reuse

Attachment 1

Provide the following information to the County of Los Angeles Department of Public Works Environmental Programs Division Construction & Demolition Debris Recycling and Reuse Unit by emailing this form to CND@dpw.lacounty.gov

Name of the Project: _____

Address: _____

Project Description:

Estimated Tonnage or Cubic Yard of Debris Generated from:

Grading: _____

Demolition: _____

Construction: _____

Contractor Project Manager: _____

Email Address: _____

County Project Manager: _____

Email Address: _____

Submitted by: _____ Date: _____ Email Address: _____

Office Use Only:

____ Project is encouraged to make a good-faith effort to reduce, reuse, and/or recycle the debris generated to the maximum extent feasible.

____ Project is subject to Part 3 of Section 01 74 19. Submit a Recycling and Reuse Plan (Attachment 2)

Reviewed by: _____ Date: _____





Upon completion of your project, fill out this form and submit to the C&D Unit with all proper documentation pertaining to C&D Debris generated by the project by one of the following methods:

- **By E-mail to:** CND@pw.LACounty.gov
- **By Mail to:**
Los Angeles County Public Works
Environmental Programs Division
P.O. BOX 1460
Alhambra, CA 91802-1460
- **In person to:**
Los Angeles County Public Works
Annex Bldg., 3rd Floor
900 South Fremont Avenue
Alhambra, CA 91803
Monday—Thursday, 7:00am-5:00pm
- **By Fax to:** (626) 270-4066

STEP 1: Project Details	
RRP ID Number: _____	
Address: _____	City: _____
Zip: _____	Project End Date: _____

STEP 2: Documentation

Attach copies of **all documentation** pertaining to all C&D debris generated by the project described in Step 1 of this form. **Documentation includes weight tickets from C&D debris recycling facilities, a subscription order form or bill of rights from authorized commercial franchise haulers, and any other documentation that accounts for material hauled to a location that is legally permitted to collect that material.**

STEP 3: Acknowledgement of C&D Requirements— Read and sign below if you are the owner, contractor, or project manager assigned to the project.

The undersigned fully acknowledges the requirements of Chapter 20.87, Title 20 – Utilities of the Los Angeles County Code, C&D Debris Recycling and Reuse Ordinance, Section 20.87.090.

X	_____	_____	_____
	Signature of Property Owner	Print Name	Date
X	_____	_____	_____
	Signature of Authorized Contractor	Print Name	Date
X	_____	_____	_____
	Signature of Project Manager	Print Name	Date

FOR PUBLIC WORKS USE ONLY	
Recycle Rate for this RRP: _____	Date Received: _____
Approved by (Print): _____	
Approval Date: _____	
Approver Signature: _____	
PENALTY FEE DUE: Notes/Comments: _____	