



CONSTRUCTION WASTE MANAGEMENT PLAN

The 2016 California Green Building Standards Code (Cal Green Code) is effective January 1, 2017. The Cal Green Code, Section 4.408 (Residential) and Section 5.408 (Nonresidential) requires all projects to have a Construction Waste Management Plan (CWMP). The CWMP is to document the project's overall waste management effort to achieve a 65% waste reduction of waste and debris from the landfill.

Please complete the following form for construction materials produced as a result of work performed in the City of La Palma. The City's franchised waste hauler, Park Disposal, will provide dumpster service for your Construction Waste Management Plan.

1. Project & Applicant Info.

Waste Hauling Company: **Park Disposal Company** (714) 522-3577

Building Permit Number: _____

Project Name: _____

Project Address: _____

Project Manager: _____

Contact Name: _____ Title: _____

Contact Telephone Number / Email: _____

Contractor Name: _____

Contractor Contact Person: _____

Contractor Telephone / Email: _____

Approximate Square Footage of Project: _____

Estimated Demolition Dates: Start _____ End _____

Estimated Construction Dates: Start _____ End _____

All Subcontractors shall comply with the project's CWMP (Attachment 1).

All Subcontractor foremen shall sign the CWMP Acknowledgement Sheet (Attachment 2).

1. The project's overall rate of waste diversion will be 65%.
2. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and reusing materials whenever possible. The majority of the waste that is generated on this jobsite will be diverted from the landfill and recycled for other use.
3. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.
4. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcontractor comes on-site, the WMP Coordinator will present him/her with a copy of the CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. Each Subcontractor foremen will acknowledge in writing that they have read and will abide by the CWM Plan. Subcontractor Acknowledgement Sheet enclosed. The CWM Plan will be posted at the jobsite trailer.
5. Salvage: Excess materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible.
6. **PARK DISPOSAL** will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to **PARK DISPOSAL**. The average diversion rate for commingled waste will be 65%. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to ensure the highest waste diversion rate possible.
7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is required, then a strategy of source-separated waste diversion and/or waste stream reduction will be implemented. Source separated waste refers to jobsite waste that is not commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.

Notes:

1. *Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to below four (4) pounds per square foot of building area.*

2. *When using waste stream reduction measures, the gross weight of the product is subtracted from a base weight of four (4) pounds per square foot of building area. This reduction is considered additional diversion and can be used in the waste reduction percentage calculations.*
8. **PARK DISPOSAL** will track and calculate the quantity (in tons) of all waste leaving the project and calculate the waste diversion rate for the project. **PARK DISPOSAL** will provide Project Manager with an updated monthly report on gross weight hauled and the waste diversion rate being achieved on the project. **PARK DISPOSAL's** monthly report will track separately the gross weights and diversion rates for commingled debris and for each source-separated waste stream leaving the project.
9. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste the project Superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. These collection points are not to be contaminated with non-designated waste types.
11. Debris from jobsite office and meeting rooms will be collected by **PARK DISPOSAL**. **PARK DISPOSAL** will, at a minimum, recycle office paper, plastic, metal and cardboard.

2. Material Handling Summary

To extend the life of landfills, and save natural resources, contractors must carefully consider alternatives to landfill disposal. Salvaging, reusing and recycling C&D materials can reduce disposal cost, as well as increase the City's diversion rate and oftentimes provide an economic benefit for the Contractor.

Park Disposal Company (714) 522-3577 is available to provide waste management services to Contractors.

3. Description of CWMP

Briefly state how waste materials will be handled at your job site to ensure reduction, salvage/reuse or recycling.

Please check waste reduction activities that were practiced at this project site:

- | | |
|--|---|
| ☐ Use of Prefabricated Components | ☐ Reduced packaging |
| ☐ Reuse of Materials on site | ☐ other (describe) _____ |
| ☐ Accurate Material Estimates | |

4. CWMP Acknowledgement

All Subcontractors shall comply with the project's Construction Waste Management Plan.

All Subcontractors foremen shall sign the CWMP Acknowledgement Sheet.

1. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials whenever possible. The majority of the waste that is generated on this jobsite will be diverted from the landfill and recycled for other use.
2. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcontractor comes on-site, the General Contractor will present him/her copy of the project's CWMP and provide a tour of the job site to identify materials to be salvaged and the procedures of handling jobsite debris. All Subcontractor foremen will acknowledge in writing that they have read and will abide the CWMP. Subcontractor Sheet enclosed (*Attachment 1*). The CWMP will be posted at the jobsite trailer.
3. Park Disposal will provide a commingled drop box at the jobsite for most of the construction waste. The average diversion rate for commingled waste will be 65%. As site conditions permit, additional drop boxes may be used for particular phases of construction (e.g. concrete and wood waste) to ensure the highest waste diversion possible.
4. Subcontractors shall not furnish their own debris boxes as part of their scope of work, such Subcontractor shall use Park Disposal Company (714) 522-3577.
5. No project will be finalized or issued with certificate of occupancy without having submitted the required documentation of construction waste diversion, reduction or recycling.

5. Verification

- a. We will be using the City's Franchised Waste Hauler (Park Disposal) for all our waste management needs and will supply receipts for service as proof prior to final inspection.
- b. Attach weight slips or other records of measurement from Park Disposal Company that show actual tonnage of diverted materials.
- b. You are required to submit your documentation prior obtaining a final inspection on your projects.
- c. "To the best of my knowledge, the reported tonnage and diversion percentage are an accurate representation of the disposition of the construction and demolition materials generated and diverted from this project site. I understand the City may audit disposal and recycling documentation related to this submission."

We, the undersigned, swear that the information herewith submitted is in all respects true and correct to the best of our knowledge.

Print Name: _____

Signature: _____

Date: _____

ATTACHMENT 1

CONSTRUCTION WASTE MANAGEMENT (CWM) WORKSHEET

Note: This sample form may be used to assist in documenting compliance with the waste management plan.

Project Name:			
Job Number:			
Project Manager:			
Waste Hauling Company:			
Contact Name:			

Waste Material Type	Diversion Method		Projected Diversion Rate
	Commingled and Sorted Off-site	Source Separated Onsite	
Asphalt			
Concrete			
Shotcrete			
Metals			
Wood			
Rigid Insulation			
Fiberglass Insulation			
Acoustic Ceiling Tile			
Gypsum Drywall			
Carpet/Carpet Pad			
Plastic Pipe			
Plastic Buckets			
Plastic			
Hardiplank Siding and Boards			
Glass			
Cardboard			
Pallets			
Job office trash, paper, glass & plastic bottles, cans, plastic			
Alkaline and rechargeable batteries, toner cartridges, and electronic devices			
Other:			
Other:			
Other:			

Contractor (Documentation Author's /Responsible Designer's Declaration Statement)

- I certify that this Certificate of Compliance documentation is accurate and complete.
- I certify that the features and performance specifications for the design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 11 of the *California Code of Regulations*.
- The design features identified on this Certificate of Compliance are consistent with the information documented on other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the permit application

Signature:

Company:

Date:

Address:

License:

City/State/Zip:

Phone:

ATTACHMENT 2

CONSTRUCTION WASTE MANAGEMENT (CWM)
ACKNOWLEDGMENT

Note: This sample form may be used to assist in documenting compliance with the waste management plan.

Project Name: _____
Job Number: _____
Project Manager: _____
Waste Hauling Company: _____
Contact Name: _____

The Foreman for each new Subcontractor that comes on site is to receive a copy of the Construction Waste Management Plan and complete this Acknowledgement Form.

I have read the Waste Management Plan for the project; I understand the goals of this plan and agree to follow the procedures described in this plan.

Date	Subcontractor Company Name	Foreman Name	Signature

Contractor (Documentation Author's /Responsible Designer's Declaration Statement) • I certify that this Certificate of Compliance documentation is accurate and complete. • I certify that the features and performance specifications for the design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 11 of the <i>California Code of Regulations</i>. • The design features identified on this Certificate of Compliance are consistent with the information documented on other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the permit application	
Signature:	
Company:	Date:
Address:	License:
City/State/Zip:	Phone:

CALGreen Construction Waste Management Requirements

Summary Created by CalRecycle

Occupancy	REQUIREMENTS AND APPLICATIONS	
	2013 CALGreen (Effective 1/1/2014)	2016 CALGreen (Effective 1/1/2017)
Non-Residential Compliance Methods (5.408)	≥ 50% C&D waste diversion (5.408.1): or ≤ 2 lbs/ft ² disposal (5.408.1.3) and may be required to submit a construction waste management plan (5.408.1.1) or utilize a waste management company. (5.408.1.2)	≥ 65% C&D waste diversion (5.408.1) ¹ or ≤ 2 lbs/ft ² disposal (5.408.1.3) and may be required to submit a construction waste management plan (5.408.1.1) or utilize a waste management company. (5.408.1.2)
New Construction & Demolition ²	Permitted structures	Permitted structures
New Construction	Recycling by Occupants: Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at minimum) paper, corrugated cardboard, glass, plastics and metals. (5.410.1)	Recycling by Occupants: Added organic waste (5.410.1)
	Recycled Content (<i>Voluntary</i>): Use materials, equivalent in performance to virgin materials with a total (combined) recycled content value of less than 10% (Tier 1) or 15% (Tier 2) of the total material cost of the project. (A5.405.4)	Recycled Content (<i>Voluntary</i>): Added the use of 2 (Tier 1) or 3 (Tier 2) materials out of 9 product types on a list (insulation-fiberglass & cellulose, exterior paint, carpet, compost, mulch, acoustical ceiling panels, drywall & aggregate base). (A5.405.4)
Additions	1,000 ft ² (301.3)	Permitted structures
	Recycling by Occupants (applies to certain additions) ³ : Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at minimum) paper, corrugated cardboard, glass, plastics and metals. (5.410.1)	Recycling by Occupants: Added organic waste
Alterations	\$200,000 (301.3)	Universal Waste (applies to certain projects) ⁴ : Require verification that Universal Waste is managed correctly. List of prohibited Universal Waste shall be included in construction documents. (5.408.2)
		Universal Waste (applies to certain projects) ⁵ : Require verification that Universal Waste is managed correctly. List of prohibited Universal Waste shall be included in construction documents. (5.408.2)
Residential Compliance Methods (4.408)	≥ 50% C&D waste diversion (4.408.1) and may be required to submit a construction waste management plan (4.408.2) or utilize a waste management company (4.408.3)	≥ 65% C&D waste diversion (4.408.1) ⁶ and may be required to submit a construction waste management plan (4.408.2) or utilize a waste management company (4.408.3)
Low-rise 3 stories or less (4.408.4)	≤ 4 lbs/ft ² disposal	≤ 3.4 lbs/ft ² disposal
High-rise 4 stories or more (4.408.4.1)	≤ 2 lbs/ft ² disposal	≤ 2 lbs/ft ² disposal
New Construction & Demolition	Permitted structures	Permitted structures
Additions	Certain additions (301.1.1)	Certain additions (301.1.1)) ⁷
Alterations	Certain alterations (301.1.1)	Certain alterations (301.1.1)
Multifamily dwellings ⁸ with ≥ 5 units		Recycling by Occupants: Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at minimum) paper, corrugated cardboard, glass, plastics, organic waste and metals (4.410.2)

¹ Alternate waste reduction methods may apply if adequate diversion facilities do not exist (5.408.1).

² Projects with demolition-only permit (not included with a construction permit) is outside the scope of the CALGreen building code. Therefore, jurisdictions using CALGreen for C&D waste management should address recycling in demolition-only projects should they occur.

³ All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.

⁴ Applies to nonresidential additions 1,000 ft² or greater per CALGreen Section 301.3.

⁵ Applies to building alterations with a permit valuation of \$200,000 or above per CALGreen Section 301.3.

⁶ Alternate waste reduction methods may apply if adequate diversion facilities do not exist (4.408.1).

⁷ Section 301.1.1 applies to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. Applies only to and within the specific area of addition or alteration.

⁸ See Section 1102A.1 for CALGreen's definition of multifamily dwellings.

Last Updated: September 7, 2016

CALGreen Construction Waste Management Requirements

Summary Created by CalRecycle

2016 CALGreen (effective 1/1/2017)

Waste Diversion Requirement

- Newly constructed buildings and demolition projects shall divert from landfills at least 65% of the construction materials generated during the project.
- All locally permitted additions and alterations to **non-residential** buildings or structures shall divert from landfills at least 65% of nonhazardous construction and demolition materials.
- Additions and alterations to **residential** buildings that increase the structure's conditioned area, volume or size are also required to meet the 65% minimum diversion requirement.

Methods of Compliance

- 1) Enforcing agencies can require contractors to develop and maintain a waste management plan and document diversion and disposal.
- 2) Utilize a waste management company that certifies a minimum 65% waste diversion.
- 3) Waste stream reduction alternative.
 - Non-residential new construction projects with a combined disposal weight of ≤ 2 lbs/ft² may be deemed to meet the 65% minimum diversion requirement.
 - Residential low rise (3 stories or less) with a combined weight of new construction disposal ≤ 3.4 lbs/ft² may be deemed to meet the 65% minimum diversion requirement.
 - Residential high rise (4 stories or more) with a combined weight of new construction disposal ≤ 2 lbs/ft² may be deemed to meet the 65% minimum diversion requirement.

Recycling by Occupants (Space for Recycling)

- Newly constructed non-residential buildings, certain non-residential additions and multi-family housing with ≥ 5 units should provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at minimum) paper, corrugated cardboard, glass, plastics, organic waste and metals.

Universal Waste

- Universal waste (such as batteries, e-waste, lamps, cathode ray tubes/glass, aerosol cans) from non-residential addition and alteration projects shall require verification that the materials are disposed of properly and diverted from landfills. A list of prohibited universal waste materials shall be included in the construction documents. This is required for nonresidential additions of 1,000 ft² or greater and/or building alterations with a permit valuation of \$200,000 or above (CALGreen Section 301.3).

Recycled Content (Voluntary unless adopted by local agency as mandatory)

- Use materials, equivalent in performance to virgin materials with a total (combined) recycled content value of less than 10% (Tier 1) or 15% (Tier 2) of the total material cost of the project or use 2 (Tier 1) or 3 (Tier 2) materials out of 9 product types on the list (insulation, exterior paint, carpet, compost, mulch, acoustical ceiling panels, drywall and aggregate base). This is a voluntary measure for non-residential structures.

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