



Construction and Demolition

C&D

Recycling Program



Building and Safety Division
City of Rio Vista
(707) 374-6451

C&D Recycling in Rio Vista

Rio Vista is required by State law to divert a minimum of 50 percent of its waste from landfills. Many of the materials generated from construction and demolition (C&D) projects may be able to be successfully diverted through recycling or reuse. Requiring the recycling of C&D materials as a condition of building permits will assist the City in complying with State law.

About CALGreen

Rio Vista's Building and Safety Division reviews and approves all permitted projects required to submit a Construction Waste Management Plan. Effective January 1, 2011, the California Green Building Standards Code (CALGreen) requires all newly constructed buildings including low-rise residential and most non-residential commercial projects to develop a waste management plan and divert a minimum of 50 percent of the construction waste.

Every three years the State of California adopts new and/or updated model codes. The California Building Standards Commission has established January 1, 2014 as the effective date for the implementation of the 2013 California Building Standards Code (aka, the CA Codes or Title 24). Any plans or permit applications submitted on this date or after will be required to comply with the 2013 CA Codes. The 2010 CA Codes will remain in effect for all plan and permit applications submitted on or before December 31, 2013; hence, permits issued under those approved plans may be built under the 2010 CA Codes.

Effective January 1, 2014, CALGreen mandates that the following types of projects must divert a minimum 50 percent of the nonhazardous construction and demolition debris generated during the project.

- **New construction** and demolition projects with a combined disposal weight of less than 4 lbs/ft² in new residential structures and 2 lbs/ft² in non-residential and residential high rise (four stories or more) buildings meet the 50 percent minimum diversion requirement.
- **Additions** to non-residential buildings or structures of at least 1,000 square feet or alterations with an estimated construction cost of at least \$200,000. Additions and alterations to residential buildings that increase the structure's conditions area, volume or size are also subject to the mandates.

Note: The code includes exceptions to the requirements; each of these exceptions allows a reduced or alternate compliance requirement. There is an exception for demolition waste diversion in consideration of local recycling facilities and markets for non-residential occupancies. Project applicants should consult with the City's Building and Safety Division to determine if exemptions are applicable.

Construction Waste Management Plan

The Construction Waste Management Plan consists of two parts which are incorporated into the Conditions of Approval (COA's) Building & Safety. Part I requires projects to estimate the amount of tonnage to be disposed and diverted during construction. Part II requires projects to show what tonnage was actually diverted and disposed of. Disposal/diversion receipts or certifications are required as a part of that summary.

Resource List

Recycling facilities and haulers must be able to provide proof of recycling. If you intend to haul construction debris yourself, you **must** provide proof of recycling also, or if you are not able to recycle some of the materials contact the Building and Safety Division to seek approval for an exemption for all or part of your project.

Permitted Hauler

The following haulers are permitted by the City to collect C&D mixed debris:

Rio Vista Sanitation
100 Main Street
Rio Vista, CA 94571
(707) 374-5644

Recycling Facilities

Mt. Diablo Recycling Center
1300 Loveridge Road
Pittsburg, CA 94565

Monday- Friday, 8:30 am to 3:00 pm, Saturdays, 10:30 am to 2:30 pm

For more information

For more information regarding CALGreen and the recycling of C&D waste materials, contact:

City of Rio Vista
Building and Safety Division
(707) 374-6451

CALGreen Construction Waste Reduction Requirements

Occupancy	Requirements and Applications	
	2010 Triennial Edition- including 2012 update (effective 1/1/2011)	2013 Triennial Edition (effective 01/01/2014)
Non-Residential Compliance Methods (5.408)	$\geq 50\%$ C&D Waste Diversion or ≤ 2 lbs/ft ² disposal (5.408.1) 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)	No change
New Construction	Permitted Structures	No change
Demolition	n/a	Permitted Structures
Additions (301.3)	$\geq 2,000$ ft ²	$\geq 1,000$ ft ²
Alterations (301.3)	$\geq \$500,000$	$\geq \$200,000$
Isolated Jobsites	Exception may apply (5.408.2)	Alternate waste reduction methods may apply (see "Exceptions to 5.408.1.1 and 5.408.1.2")
Tier 1 (Voluntary) (A5.408.3.1)	$\geq 65\%$ Construction Waste Diversion	$\geq 65\%$ Construction and Demolition Waste Diversion
Tier 2 (Voluntary) (A5.408.3.1.1)	$\geq 80\%$ Construction Waste Diversion	$\geq 80\%$ Construction and Demolition Waste Diversion
Residential Compliance Methods (4.408)	$\geq 50\%$ C&D Waste Diversion and may be required to submit a construction waste management plan (4.408.2) or utilize a waste management company (4.408.3)	No change
Low-rise-3 stories or less (4.408.4)	$\geq 50\%$ C&D Waste Diversion or ≤ 4 lbs/ft ² disposal	$\geq 50\%$ C&D Waste Diversion or ≤ 4 lbs/ft ² disposal
High-rise-4 stories or more (4.408.4.1)	n/a	$\geq 50\%$ C&D Waste Diversion or ≤ 2 lbs/ft ² disposal
New Construction	Permitted Structures	No change
Demolition	Permitted Structures	No change
Additions (301.1)	n/a	Yes*
Alterations (301.1)	n/a	Yes*
Tier 1 (Voluntary)(A4.408.1)	$\geq 65\%$ C&D Waste Diversion	No change
Tier 2 (Voluntary)	$\geq 75\%$ C&D Waste Diversion	No change

*CALGreen Section 301.1 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 or within the specific area of addition or alteration.

CITY OF RIO VISTA
Construction and Demolition Waste Management Plan and Disposal Report

Applicant		Address, City, Zip				
Phone Number		Contractor License Number		Construction Type		
Job Address		Square Footage		Project Est. Cost		
Permit Number		Est. Start Date		Est. Completion Date		
MATERIALS	Before Construction (estimated tons)		After Construction (actual tons)			Contractor/Owner to submit all disposal and recycling receipts
	Landfill	Diversion	Disposed	Diversion		
			Landfill	On-site reuse	Off-site recycling	Where
Mixed Recyclables						
Land Clearing						
Inerts (Concrete, A/C, etc.)						
Drywall						
Metals						
Lumber						
Cardboard						
Other Recyclable Items						
Trash		NA		NA	NA	
Total						

WMP / RECYCLING

Estimated diversion rate: _____ %

Actual diversion rate: _____ %

OFFICIAL USE ONLY	
Plan Approved	
Information Needed	
Plan Denied	
	\$
Date	
Reviewed/Approved By:	

For Applicants:

To complete this Form, see the instructions on the other side

OFFICIAL USE ONLY	
Goal Achieved	
Substantial Compliance	
Goal Not Achieved	
	\$
Date	
Reviewed/Approved By:	

Applicable Projects

Per California Building Standards Code (Title 24) CalGreen requirements, the City of Rio Vista requires that **all new** construction and demolition (C&D) debris must be diverted through recycling or reuse by at least 50%. Also, alterations with a value of \$200,000 or more and additions of at least **1,000 square feet** must also divert at least 50%. Specific requirements and exceptions can be found at www.bsc.ca.gov/Home/CALGreen.

Permit Application

As part of the permit application process, you must **complete the top portion of the form and fill in the two columns under the 'Before Construction' section**. These two columns are the estimated amount of waste to be sent to the landfill and the estimated amount of resources to be diverted for reuse or recycling, by material type. The information in these columns are only estimates and should be calculated based upon your experience as a builder. A guide to the amount of material generated by project type is on the opposite column for your reference. To calculate the estimated diversion rate divide the total diversion tonnage by the sum of the landfill and diversion tonnages, and then multiply by 100.

$$\frac{\text{Diversion}}{\text{Diversion} + \text{Landfill}} \times 100 = \text{Diversion Rate}$$

Weight Tickets and Inspections

Collect and attach all weight ticket receipts for disposal and diversion. Final inspection will only be granted by the City Inspector once all weight tickets have been provided.

Recycling Contractor

Submit weight tickets on a weekly or monthly basis, based on the magnitude of the project. Please attempt to direct mixed C&D materials to Rio Vista Sanitation Service (Tel: 707.374.5644 or www.RioVistaDisposal.com). Refer to the Solano-Napa County C&D Debris Recycling Guide, the City's website, and/or, contact City's Recycling Coordinator at (707) 374-2205, Ext. 1115, or via email at erussell@ci.rio-vista.ca.us for additional recycling information.

Construction & Demolition Waste Generation Guide

Use the following conversion factors as guidelines when completing your initial WMP:

Projections by Project Type (Lbs per Sq. Foot)

Commercial Additions	27.0 lbs	Multi-Family New Const.	09.5 lbs
Commercial Demolition	21.0 lbs	Single Family Addition	33.0 lbs
Commercial New Const.	13.0 lbs	Single Family Demo	83.0 lbs
Commercial T& I	10.0 lbs	Single Family Custom	07.5 lbs
Multi-Family Addition	04.5 lbs	Single Family Tract	03.2 lbs
Multi-Family Demo	16.0 lbs	Single Family Remodel	39.0 lbs

Other methods of estimating with conversion factors:

Mixed Waste	350 Pounds per cubic yard	5.7 cubic yards per ton
Inerts/Dirt	1400 Pounds per cubic yard	1.4 cubic yards per ton
Drywall	500 Pounds per cubic yard	4.0 cubic yards per ton
Metals	150 Pounds per cubic yard	13.3 cubic yards per ton
Lumber	300 Pounds per cubic yard	6.7 cubic yards per ton
Cardboard	100 Pounds per cubic yard	20.0 cubic yards per ton

These figures are only to be used as a guide in calculating your estimated WMP diversion rate. Use the actual numbers when completing the After Construction portion of the form.