



**City of Laguna Niguel**  
**Building Division**  
30111 Crown Valley Pkwy  
Laguna Niguel, CA 92677  
(949) 362-4360  
www.CityofLagunaNiguel.org

# **Construction and Demolition**

## **WASTE REDUCTION AND RECYCLING**

### **PACKET**

# **146**

The California Green Building Standards Code (“CALGreen” Sections 4.408, 5.408, and 5.713.8) requires that certain types of projects recycle or otherwise divert construction and demolition waste from landfills. This packet will explain the necessary steps to comply with these requirements, which are generally outlined below. Please contact the Building Division at the above phone number or address with any questions.

Applicable projects subject to waste diversion requirements:

- 1) All newly constructed building and demolition projects which require a permit.
- 2) Non-residential: All permitted additions and alterations.
  - \* *Please also note, universal waste (such as batteries, e-waste, lamps, cathode ray tubes/glass and aerosol cans) from non-residential additions of 1,000 ft<sup>2</sup> or greater and/or building alterations with a permit valuation of \$200,000 or above require verification that materials are disposed of properly and diverted from landfills (CALGreen Section 301.3). In order to comply with this requirements, on one of the first three pages of the construction drawings submitted to the City for building permit, please identify the list of universal waste materials that need to be diverted from landfill and location of where said materials will be disposed.*
- 3) Residential: All permitted additions and alterations that increase the structure’s conditioned area, volume or size.
- 4) All demolition only projects.

If your project falls into one of the above listed categories you must recycle, reuse and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste. The following requirements apply, which must be submitted to the Building Division:

- 1) Completed Waste Reduction and Recycling Plan (WRRP) form (Pages 1-4 of this packet).
- 2) Refundable fee deposit (\$250 - reroof of non-residential structures; \$500 qualifying non-residential alterations \$750 - qualifying addition to existing residential or non-residential buildings; \$1,000 - all newly constructed building and demolition projects which require a permit). Fee deposit refundable upon project completion and submittal of a Final Report and Compliance Form (Page 6-7 of this packet), including proof-of-waste diversion documentation and Application for Deposit Refund (Page 9 of this packet).



## WASTE REDUCTION AND RECYCLING PLAN (WRRP)

Waste Reduction and Recycling Plan (WRRP) for estimated construction and demolition debris produced. Once completed, please submit to the Building Division.

Project Address: \_\_\_\_\_ Permit #(s): \_\_\_\_\_

<b>Property Owner:</b>			
<b>Address:</b>	<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Email:</b>		<b>Phone:</b>	

<b>Contractor/Applicant:</b>			
<b>Address:</b>	<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Email:</b>		<b>Phone:</b>	

**Type of Building:**

- Non-Residential                       Residential

**Type of Project (select all that apply):**

- New Construction                       Addition                       Demolition  
 Alteration (non-residential only)

**Expected Waste Material Type (select all that apply):**

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Asphalt & Concrete (No Soil)                                | <input type="checkbox"/> Carpet                  | <input type="checkbox"/> Carpet Padding/Foam      |
| <input type="checkbox"/> Brick/Masonry/Tile  | <input type="checkbox"/> Drywall                 | <input type="checkbox"/> Unpainted Wood & Pallets |
| <input type="checkbox"/> Garbage/Trash   | <input type="checkbox"/> Ceiling Tile (acoustic) | <input type="checkbox"/> Scrap Metal              |
| <input type="checkbox"/> Cardboard   | <input type="checkbox"/> Landscape Debris        | <input type="checkbox"/> Soil/Rock                |
| <input type="checkbox"/> Building Materials (doors, windows, fixtures, roofing etc.) | <input type="checkbox"/> Other: _____            |   |

Project Description/Estimated Waste		
Total Project Valuation: \$	Total Project Square Footage:	
<b>Estimated Total Waste Tonnage:</b> (total from estimated work sheet page 4)	Estimate Start Date:	Estimated Completion Date:



## WASTE REDUCTION AND RECYCLING PLAN (WRRP)

Compliance Options <i>(check applicable box)</i>
<p><input type="checkbox"/> <b>Option 1</b>  <i>Use the City's Franchised Waste Hauler, CR&amp;R</i></p> <ul style="list-style-type: none"> <li><b>a.</b> Complete the WRRP.</li> <li><b>b.</b> Submit refundable fee deposit: \$250 - reroof of non-residential structures; \$500 qualifying non-residential alterations \$750 - qualifying addition to existing residential or non-residential buildings; \$1,000 - all newly constructed building and demolition projects which require a permit.</li> <li><b>c.</b> Contact CR&amp;R to set up construction and demolition collection services at: (877) 728-0446</li> <li><b>d.</b> Upon project completion (Building Permit Final), submit weight tickets and diversion report ("screen shot" log") from CR&amp;R.</li> <li><b>e.</b> Submit Application for Deposit Refund (Page 9). Upon review and approval that all project requirements have been met, the fee deposit will be refunded.</li> </ul> <p><i>* CR&amp;R has the ability to process mixed C&amp;D material in a manner that removes recyclable materials prior to delivery to the landfill. This eliminates the need for onsite sorting of waste by material type and delivery to multiple processing facilities. To ensure compliance, <b>please request that CR&amp;R process C&amp;D debris when making arrangements for jobsite collection service.</b> Recyclable C&amp;D debris hauled directly to the landfill by CR&amp;R <u>will result in non-compliance with the state building code.</u></i></p>
<p><input type="checkbox"/> <b>Option 2</b>  <i>Self-Haul to a City approved recycling facility</i></p> <ul style="list-style-type: none"> <li><b>a.</b> Complete the WRRP.</li> <li><b>b.</b> Complete the Material Handling Estimate Worksheet (Page 4-5)</li> <li><b>c.</b> Submit refundable fee deposit: \$250 - reroof of non-residential structures;; \$500 qualifying non-residential alterations \$750 - qualifying addition to existing residential or non-residential buildings; \$1,000 - all newly constructed building and demolition projects which require a permit.</li> <li><b>d.</b> Self-Haul to one of the State approved facilities (see list on Page 8). <u>Be sure to save your documentation and receipts.</u></li> <li><b>e.</b> Upon project completion (Building Permit Final), submit the Final Report and Compliance Form (Pages 6-7), including weight tickets or other records of measurement from recycling companies that show actual tonnage of diverted materials (i.e., verification of C&amp;D compliance).</li> <li><b>f.</b> Submit Application for Deposit Refund (Page 9). Upon review and approval that all project requirements have been met, the fee deposit will be refunded.</li> </ul>
<p><input type="checkbox"/> <b>Option 3</b>  <i>Project meets the Waste Stream Reduction Alternative, new construction only – check which applies</i></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Non-residential new construction with a combined disposal weight of up to 2 lbs/ft<sup>2</sup>.</li> <li><input type="checkbox"/> Residential low-rise (3 stories or less) new construction with a combined disposal weight of up to 3.4 lbs/ft<sup>2</sup>.</li> <li><input type="checkbox"/> Residential high-rise (4 stories or more) new construction with a combined disposal weight of up to 2 lbs/ft<sup>2</sup>.</li> </ul> <ul style="list-style-type: none"> <li><b>a.</b> Complete the WRRP.</li> <li><b>b.</b> Submit refundable fee deposit: \$1,000 - all newly constructed building and demolition projects which require a permit.</li> <li><b>c.</b> Track your tonnage to be sure you will not exceed the mandated lbs/ft<sup>2</sup>.</li> <li><b>d.</b> Upon project completion (Building Permit Final), submit the Final Report and Compliance Form (Pages 6-7), including weight tickets or other records of measurement from recycling companies that show actual tonnage of diverted materials (i.e., verification of C&amp;D compliance).</li> <li><b>e.</b> Submit Application for Deposit Refund (Page 9). Upon review and approval that all project requirements have been met, the fee deposit will be refunded.</li> </ul>



**WASTE REDUCTION AND RECYCLING PLAN (WRRP)**

Applicant Verification	
<p><b>Option 1</b></p> <p>I understand that these materials must comply with the 65% diversion requirement. Disposal receipts must include tonnage, cubic yards, or truck size and number of loads. Additionally, I have been advised that construction and demolition projects must meet the requirements of the California Green Building Standards Code, and I will comply with the mandatory requirements for material conservation and resource efficiency as applicable.</p> <p><b>Print Name:</b> _____ <b>Owner/Agent/Other:</b> _____</p> <p><b>Signature:</b> _____ <b>Date Signed:</b> _____</p>	
<p><b>Option 2</b></p> <p>I certify that to the best of my knowledge these estimates are true, and that the estimates reported on this form are my best estimate of the disposition of the construction and demolition material to be generated at the project site. I understand that these materials must comply with the 65% diversion requirement. Disposal receipts must include tonnage, cubic yards, or truck size and number of loads. Additionally, I have been advised that new projects must meet the requirements of the California Green Building Standards Code, and I will comply with the mandatory requirements for material conservation and resource efficiency as applicable.</p> <p><b>Print Name:</b> _____ <b>Owner/Agent/Other:</b> _____</p> <p><b>Signature:</b> _____ <b>Date Signed:</b> _____</p>	
<p><b>Option 3</b></p> <p>I certify that to the best of my knowledge these estimates are true, and that the estimates reported on this form are my best estimate of the disposition of the construction and demolition material to be generated at the project site. I understand that these materials must comply with the 65% diversion requirement. Disposal receipts must include tonnage, cubic yards, or truck size and number of loads. Additionally, I have been advised that new projects must meet the requirements of the California Green Building Standards Code, and I will comply with the mandatory requirements for material conservation and resource efficiency as applicable.</p> <p><b>Print Name:</b> _____ <b>Owner/Agent/Other:</b> _____</p> <p><b>Signature:</b> _____ <b>Date Signed:</b> _____</p>	

WRRP Status		**FOR CITY USE ONLY**	
<input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Further explanation needed ( <i>see comments below</i> )	FEE DEPOSIT AMOUNT RECEIVED	\$	
Comments:			
WRRP Reviewed by:			
_____ Print Name	_____ Signature		
_____ Date	_____ Receipt #		



**WASTE REDUCTION AND RECYCLING PLAN (WRRP)**  
**MATERIAL HANDLING ESTIMATE WORKSHEET**

<b>COLUMN A</b>	List estimated quantities of waste generated for each material type (in tons) from the project. To convert yards to tons, use the Materials Conversion Worksheet.
<b>COLUMNS B, C, &amp; D</b>	List estimated quantities of materials re-used, recycled, or disposed based on Column A quantities.
<b>COLUMN E</b>	State the name of all vendors or facilities used to re-use, recycle, or dispose of materials listed. See example below for cases where more than one facility was used for a particular material type.
<b>COLUMN TOTALS</b>	Add up all material quantities for each column.
<b>SECTION F</b>	Calculate the estimated diversion percentage in the section at the end of this worksheet and enter the percentage on page 1 of the WRRP.

Materials	A Total Waste Generated	B Salvage or Re-Use	C Recycle	D Disposal (Landfill)	E Proposed Destinations
<b>Example: Cardboard</b>	<b>2 tons</b>		<b>1.5</b>	<b>0.5</b>	<b>XYZ Recycling Facility (recycle) Prima Deschecha Landfill (disposal)</b>
Asphalt/Concrete					
Brick/Masonry/Tile					
Cardboard					
Wood					
Metals					
Landscape Debris (do not include dirt)					
Dirt					
Garbage/Trash					
Other					
Other					
<b>Column Totals</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	

**F. DIVERSION PERCENTAGES ESTIMATE:**

	<b>Column B</b>
+	
=	
÷	<b>Column A</b>
=	
x	<b>100</b>
=	<b>%</b>

Enter this percentage amount on page 1 of the WRRP Plan



## MATERIALS VOLUME-TO-WEIGHT CONVERSION WORKSHEET

This worksheet lists materials typically generated from a construction or demolition project and provides formulas for converting common units (i.e. cubic yards, square feet and board feet) to tons.

<u>Material/Category</u>	<u>Column I</u> <u>Volume</u>	<u>Unit</u>	<u>Column II</u> <u>Tons/unit</u>	=	<u>Column III</u> <u>Tons</u>
<b>Asphalt/Concrete</b>					
Asphalt (broken)	_____	cy	x 0.7	=	_____
Concrete (broken)	_____	cy	x 0.9	=	_____
Concrete (solid slab)	_____	cy	x 1.2975	=	_____
			Total		_____
<b>Brick/Masonry/Tile</b>					
Brick (broken)	_____	cy	x 0.7	=	_____
Brick (whole, palletized)	_____	cy	x 1.512	=	_____
Masonry block (broken)	_____	cy	x 0.6	=	_____
Tile	_____	sq ft	x 0.00175	=	_____
			Total		_____
<b>Building Materials (doors, windows, cabinets, etc.)</b>					
	_____	cy	x 0.15	=	_____
<b>Cardboard (flat)</b>					
	_____	cy	x 0.05	=	_____
<b>Carpet</b>					
By square foot	_____	sq ft	x 0.0005	=	_____
By cubic yard	_____	cy	x 0.3	=	_____
<b>Carpet Padding/Foam</b>					
	_____	sq ft	x 0.000125	=	_____
<b>Ceiling Tiles</b>					
Whole (palletized)	_____	sq ft	x 0.0003	=	_____
Loose	_____	cy	x 0.0875	=	_____
			Total		_____
<b>Drywall (new or used)</b>					
1/2" (by square foot)	_____	sq ft	x 0.0008	=	_____
5/8" (by square foot)	_____	sq ft	x 0.00105	=	_____
Demo/used (by cubic yard)	_____	cy	x 0.25	=	_____
			Total		_____
<b>Landscape Debris (brush, trees, etc)</b>					
	_____	cy	x 0.15	=	_____
<b>Scrape Metal</b>					
	_____	cy	x 0.453	=	_____
<b>Unpainted Wood &amp; Pallets</b>					
By board foot	_____	bd ft	x 0.001375	=	_____
By cubic yard	_____	cy	x 0.15	=	_____
<b>Garbage/Trash</b>					
	_____	cy	x 0.175	=	_____

cy = cubic yards

sq ft = square foot

bd ft = board foot



## FINAL REPORT AND COMPLIANCE FORM

### 1. PROJECT AND APPLICANT INFORMATION

Owner's Name: \_\_\_\_\_ Date: \_\_\_\_\_

Project Address: \_\_\_\_\_

Owner's Telephone No.: \_\_\_\_\_

Contractor: \_\_\_\_\_

Contractor's Contact Name: \_\_\_\_\_

Contractor's Telephone No.: \_\_\_\_\_

Approximate Square Footage of Project: \_\_\_\_\_

Demolition Dates: Start: \_\_\_\_\_ End: \_\_\_\_\_

Construction Dates: Start: \_\_\_\_\_ End: \_\_\_\_\_

### 2. DESCRIPTION OF DIVERSION PLAN

Briefly state how waste materials were handled at your job site to ensure salvage/re-use or recycling.

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

- |  |  |
|--|--|
| <input type="checkbox"/> Use of prefabricated components | <input type="checkbox"/> Reduced packaging |
| <input type="checkbox"/> Re-use of materials on site     | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Accurate material estimates     |  |

### 3. MATERIAL HANDLING SUMMARY

Please complete the Material Handling Summary Worksheet to identify the types of materials, quantities, and how the waste materials were reduced, recycled, or disposed of at your project site. For this summary report, use the actual quantities, based on weight tags, gate receipts, or other documentation. Material quantities should be calculated in tons, and use the Materials Conversion Worksheet for conversion factors. Fill in the diversion percentage calculated in Section F of the Material Handling Summary Worksheet on line 3A below.

3A. Diversion Percentage Actual from Section F: \_\_\_\_\_ %

3B. Is the percentage listed in 3A above greater than or equal to 65%?  YES  NO

3C. If NO, explain why: \_\_\_\_\_

### 4. VERIFICATION

Attach original weight slips or other records of measurement from recycling companies that show actual tonnage of diverted materials.

To the best of my knowledge, the reported tonnage and diversion percentage reported on this form 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 survey.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_



## FINAL REPORT AND COMPLIANCE FORM

### MATERIAL HANDLING SUMMARY WORKSHEET

<b>COLUMN A</b>	List actual quantities of waste generated for each material type (in tons). To convert yards to tons, use the Materials Conversion Worksheet.
<b>COLUMNS B, C, &amp; D</b>	List actual quantities of material re-used, recycled, or disposed based on Column A quantities.
<b>COLUMN E</b>	State the name of all vendors or facilities used to re-use, recycle, or dispose of materials listed. See example below for cases where more than one facility was used for a particular material type.
<b>COLUMN TOTALS</b>	Add up all material quantities for each column.
<b>SECTION F</b>	Calculate the actual diversion percentage in the section at the end of this worksheet and enter the percentage on line 3A of the Report Summary.

Materials	A Total Waste Generated	B Salvage or Re-Use	C Recycle	D Disposal (Landfill)	E Actual Destinations
Example: <i>Cardboard</i>	<i>2 tons</i>		<i>1.5</i>	<i>0.5</i>	<i>XYZ Recycling Facility (recycle) Prima Deschecha Landfill (disposal)</i>
Asphalt/Concrete					
Brick/Masonry/Tile					
Cardboard					
Wood					
Metals					
Landscape Debris (do not include dirt)					
Dirt					
Garbage/Trash					
Other					
Other					
<b>Column Totals</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	

**F. ACTUAL DIVERSION:**

		<b>Column B</b>			
+		<b>Column C</b>			
=					
÷		<b>Column A</b>			
=					
x	100				
=		%	ENTER THIS PERCENTAGE AMOUNT TO LINE 3A ON REPORT SUMMARY		





City of Laguna Niguel  
 Construction and Demolition Waste Reduction and Recycling  
**RECYCLING FACILITES LOCATED NEAR THE CITY OF LAGUNA NIGUEL**

Facility/Company	Address	City	Phone	Materials														Comments
				Mixed C&D Materials	Asphalt	Concrete	Gravel, Rock	Other Inert Materials	Metal	Rebar	Cardboard	Carpet	Drywall	Plastic	Greenwaste	Topsoil	Wood / Lumber/ Pallets	
Adams Steel	3200 E. Frontera Street	Anaheim	714-630-6523					x		x								Pick-up services may be available.
Aguinaga Company	16355 Construction Circle	Irvine	949-786-9558											x				No palm fronds, grass, tree trunks, etc.
All American Asphalt	1776 All American Way	Corona	951-736-3853		x	x												Must be clean
Allan Company	2540 E. Main St	Santa Ana	714- 641-8891						x		x			x				Glass, e-waste
Amazon Environmental	779 Palmyrita Avenue	Riverside	951-588-0206														x	Paint
Blue Ribbon Landscape/Nursery	1425 N. Santiago Blvd.	Orange	714-633-3666											x		x		Raw untreated lumber only
California Waste Services	621 W 152nd Street	Gardena	800-839-5550	x	x	x	x	x	x	x	x		x	x	x	x	x	
Consolidated Volume Transfer (CVT)	1131 N Blue Gum Ave	Anaheim	714-238-3301	x	x	x		x	x	x			x	x	x	x	x	Tires, AC units, refrigerators
Construction and Demolition	9309 Rayo Ave	South Gate	323-357-6900	x	x	x	x	x	x	x	x		x	x	x	x	x	Granite, marble, tiling, furniture,
CR&R Transfer	11232 Knot Ave	Stanton	714-895-7970	x	x	x		x	x	x	x		x	x	x	x	x	Flooring, glass
Dan Copp Crushing	1120 N Richfield	Anaheim	714-221-1484		x	x				x								
Downtown Diversion	2424 E. Olympic Blvd.	Los Angeles	213-612-5005	x	x	x	x	x	x				x	x	x			
Ewles Materials - Irvine	16881 Construction Circle	Irvine	714-894-1988		x	x		x										
Ewles Materials - Stanton	8200 Katella Ave	Stanton	714-894-1988		x	x		x										
Global Metal Recycling	1011 E. Pine St	Santa Ana	714-547-9079						x	x	x						x	CRV containers. Auto batteries.
Hanson Aggregates	2850 California Ave	Long Beach	626-856-6763		x	x												
Rainbow Disposal	17121 Nichols Street	Huntington Beach	714-847-3581	x	x	x		x	x	x	x		x	x		x	x	Flooring, glass, tires, ewaste
RJ Noble	15505 E. Lincoln Ave	Orange	714-637-1550		x	x	x	x						x		x		
SA Recycling	1016 Santiago	Santa Ana	714-835-9235					x		x						x		
SCOR Industries	2321 S Willow Ave	Bloomington	909-820-5046	x	x	x	x	x	x	x	x		x	x	x	x	x	
Sun West Materials	1150 N Anaheim Blvd	Anaheim	714-635-0470						x									Ferrous and non-ferrous metals.
Tierra Verde Industries	31748 La Pata	San Juan Capistrano	949-728-0401											x		x		Wood with paint/nails ok. Palm fronds
Tierra Verde Industries	6900 Marine Way	Irvine	949-551-0363	x	x	x		x					x	x	x	x	x	Flooring, glass
Waste Management of Orange	2050 N. Glassell	Orange	714-282-0200	x	x	x		x	x	x						x	x	Flooring, glass
Waste Mgmt/Sunset Environmental	16122 Construction Circle W.	Irvine	949-654- 1562	x	x	x		x	x	x			x	x	x	x	x	Tires, AC units, refrigerators

NOTES:



## APPLICATION FOR DEPOSIT REFUND

Submit complete form and documentation with original recycling facility receipts upon final inspection/Building Permit Final. Deposit refunds cannot be issued unless all required information and diversion documentation is provided. Original recycling facility receipts with dates and project addresses are required. *Fee deposit received will be refunded to payee.*

Project Address: \_\_\_\_\_ Permit #(s): \_\_\_\_\_ Date Submitted: \_\_\_\_\_

Contractor/Applicant:			
Address:	City:	State:	Zip:
Email:		Phone:	

**REQUIRED ATTACHMENTS:**

**Option 1** *Used the City's Franchised Waste Hauler, CR&R*

Weight tickets and diversion report from CR&R

**Option 2** *Self-Hauled to a State approved recycling facility*

All receipts and/or weigh tickets for all recycled, salvaged and disposed material.

Completed Final Report and Compliance Form \*Requires Compliance Review and Approval\*

**Option 3** *Project met the Waste Stream Reduction Alternative*

All receipts and/or weigh tickets for all recycled, salvaged and disposed material.

Completed Final Report and Compliance Form \*Requires Compliance Review and Approval\*

**FOR CITY USE ONLY**	
<b>REPORT SUMMARY APPROVAL STATUS:</b>	<b>SECURITY DEPOSIT:</b>
<input type="checkbox"/> Approved	<input type="checkbox"/> Full Refund
<input type="checkbox"/> Denied	<input type="checkbox"/> No Refund
<input type="checkbox"/> Further explanation needed ( <i>see comments below</i> )	<input type="checkbox"/> Partial Refund      Amount: \$ _____
Comments: _____	
Reviewed By: _____	Date: _____
Signature: _____	