



REPORT TO LAW & LEGISLATION COMMITTEE City of Sacramento

915 I Street, Sacramento, CA 95814-2671

STAFF REPORT
February 19, 2008

Honorable Members of the
Law and Legislation Committee

Title: Discussion Paper: Construction and Demolition Debris Recycling Ordinance in the City of Sacramento.

Location/Council District: Citywide

Recommendation: This report is for Committee direction to staff to draft a construction and demolition debris recycling ordinance and, for direction on which policies to include in the ordinance.

Contact: Edison Hicks, Integrated Waste General Manager, 808-4949
Marty Strauss, Integrated Waste Planning Superintendent, 808-4934
Julie Friedman, Program Analyst/Waste Reduction Coordinator, 808-4833

Presenter: Julie Friedman, Program Analyst/Waste Reduction Coordinator

Department: Utilities

Division: Solid Waste

Organization No: 3361

Description/Analysis

Issue: Staff is bringing forward recommendations for implementation of a Construction and Demolition debris (C&D) ordinance as a result of direction and comments provided by the stakeholders, the State (California Integrated Waste Management Board (CIWMB)), and an adhoc C&D technical advisory committee.

Adoption of the C&D ordinance will contribute to the City meeting the State mandate of 50% diversion of the total waste stream from landfill disposal. The City risks a \$10,000 per day fine if the State's diversion requirements are not met, either by reaching 50% overall diversion of material from landfill disposal, or by implementing sufficient programs to show a "Good faith" effort. C&D debris makes up 20% of the City's waste stream. Diversion of C&D debris away from landfill disposal would increase the City's diversion from 5 to 10 percent depending on the building season. The 2005 report for the California Integrated Waste Management Board showed the City only achieving 44% overall diversion of material from landfill disposal, 6% short of the state mandate. During this period, C&D debris recovered would have represented about 130,000 tons, and diversion of this material away from landfill disposal would have increased the City's overall diversion to 55%.

Currently under Sacramento City Code (SCC) section 17.72.020, a new development project applicant is required to submit a recycling plan for approval by the Solid Waste Manager prior to issuance of a building permit with the project applicant being requested to divert away 95% of all C&D debris generated by the project (see Attachments 2A and 2B). SCC section 17.72.020 however is limited only to new development projects and lacks any enforcement measures if applicant fails to meet the recycling plan. The proposed C&D debris ordinance would expand the diversion requirements to include all construction projects that meet or exceed the threshold set based on either square footage or value of the project. The proposed ordinance would also include enforcement measures if the required diversion is not met.

The proposed ordinance will, (1) require the diversion of C&D debris from landfill disposal in a greater volume than is presently experienced; (2) enable the City to meet the State mandate of 50% diversion and (3) move the City toward sustainability by working with neighboring jurisdictions to influence policy and create market incentives, and encourage building the infrastructure to promote waste reduction.

Construction and Demolition Debris Measures:

Should the Committee direct staff to draft an ordinance on recycling of C&D debris, direction would be needed on the extent of the measures and thresholds suggested below:

- **Diversion requirements:** Recommendation for 95% diversion of all concrete and asphalt, and 50% of all mixed C&D debris generated by the project from landfill disposal. This will result in an overall diversion of approximately 85% of all C&D debris generated by the project.
- **Threshold:** Staff recommends construction projects meeting or exceeding the threshold of 5,000 square feet and a value of \$100,000 or greater be subject to the proposed diversion requirements.
- **Economic/enforcement:** A review of the different mechanisms used by other jurisdictions and with input from industry stakeholders leads staff to recommend a diversion compliance fine.
- **Planning and Reporting requirements:** A Waste Management Plan (WMP)) and diversion confirmation documentation is recommended for compliance. Weigh tickets documenting where the materials were recycled and/or disposed will document that the WMP was followed. (Table 3 of Attachment 4)
- **Additional promotion, education, and technical assistance:** (Phased in).

The above recommendations are discussed in more detail in the background section of this report.

Policy Considerations: The intent of the C&D program is consistent with Mayor and City Council goals, the City's Strategic Plan (2005) for improving public safety and achieving sustainability and livability, and contributes to the City's efforts to reduce waste and comply with the California Integrated Waste Management Act of 1989. It is consistent with the City's approved Sustainability Master Plan (Resolution No. 2007-944) and the Green Building Program (Resolution No. 2007-945), adopted in 2007.

The City's General Plan Updated Solid Waste policies provide a wide range of programs and incentives to reduce waste and recycle construction waste. These policies are consistent with Sacramento's desire to be a more sustainable community by generating less solid waste.

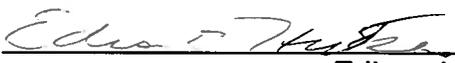
Environmental Considerations: This staff recommendation does not constitute a "project" and, therefore, is exempt from the California Environmental Quality Act (CEQA) according to Section 15061 (b)(1) and 15378 (b)(3) of the CEQA guidelines. The C&D Program provides the overall framework to move the City toward sustainability, thereby having a positive impact on the environment.

Rationale for Recommendation: Adoption of the recommended ordinance will contribute to the City meeting the State mandate of 50% diversion of the total waste stream from landfill disposal and avoid being subject to fines and penalties from the State should the City fail to meet 50% diversion. The most recent required bi-annual report to the State showed the City only diverting 44% of the total waste stream generated. Implementation of the proposed C&D diversion requirements described in Attachments 1 and 2 will enable the City to achieve 64-66% diversion by 2012.

The general outline of the C&D Program (See Attachments 3, 4, 5 and 6) was developed by the Department of Utilities, Solid Waste Division in coordination with an adhoc C&D technical advisory committee (City Building/Planning/ Development/ Engineering). It was designed with input from industry stakeholders.

Financial Considerations: Pending direction from the Law & Legislation Committee, staff will return with a draft ordinance that will include specific financial requirements.

Emerging Small Business Development (ESBD): No goods or services will be purchased as a result of the proposed actions in this report. Therefore, there are no Emerging Small Business Development issues.

Respectfully Submitted by: 
Edison Hicks
Integrated Waste General Manager

Approved by: 
Gary Reents
Director, Department of Utilities

Recommendation Approved:



Ray Kerridge
City Manager

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Background Information

Each year over 4 million tons of construction and demolition (C&D) debris are disposed in California landfills, representing 12% of the entire waste stream. In 2005 approximately 20% of the City's waste stream was C&D debris. This represents approximately 137,000 tons of waste disposed versus recycled. A 95% diversion requirement would have allowed recovery of 130,000 tons and would have represented an approximate 11% increase in overall diversion for the City, bringing the City to 55% diversion and thereby meeting the State mandate of 50% diversion.

C&D debris are commonly discarded materials removed from the premises during construction, remodeling, repair, demolition, deconstruction or renovation resulting from these operations on any pavement, house, commercial building, or other structure or from landscaping. Such materials include, but are not limited to, dirt, sand, rock, gravel, bricks, plaster, gypsum wallboard, aluminum, glass, asphalt material, plastic pipe, roofing material, carpeting, concrete, wood, masonry, rocks, trees, remnants of new materials, including paper, plastic, carpet scraps, wood scraps, scrap metal, packaging and rubble, and building materials, resulting from construction, remodeling, renovation, repair and demolition operations (California Integrated Waste Management Board, 2007). Much of this material can be reused or recycled if managed properly. Reuse and recycling of C&D debris conserves natural resources and slows the rate at which landfills reach capacity. It can also save builders money by reducing waste of purchased materials and lowering disposal fees.

AB 939, the Integrated Waste Management Act, requires diversion of 50% of the total waste stream generated by local governments. In 2005, the last year reported to the State, the City of Sacramento diverted 44%, 6% less than the State mandate. Since then, the City has implemented weekly recycling and the Solid Waste Authority (SWA) has adopted a Business Recycling Ordinance. Staff predicts that the successful implementation of the proposed C&D debris Ordinance, along with weekly recycling and the SWA Business Recycling Ordinance will result in the City achieving 64-66% diversion by the year 2012.

For the above reasons, the Solid Waste Division, therefore, views management of the C&D debris waste stream as an important element of their overall waste diversion efforts. The California Integrated Waste Management Board (CIWMB) has recommended a C&D diversion goal between 50 to 75 percent for State construction projects that are accessible to C&D waste processors and recyclers. In meeting with the stakeholders, Solid Waste staff has been told that 95% for inerts and 50% for mixed C&D debris is feasible and not unreasonable with the understanding that the recoverable portion of the C&D stream at any given building site will also depend on the nature of demolition and/or construction work.

For example, in the Sacramento region nearly all of the concrete rubble from mass demolition activities of structures is routed to inert waste processors for crushing and recycling. Therefore the demolition of a steel-reinforced concrete parking garage would be expected to result in a high recycling rate from a mass demolition approach. It is possible to divert 95% of this material. On the other hand, the mass demolition of a typical apartment building because of the mixed C&D materials would not necessarily yield a significant quantity of economically recoverable C&D waste materials. A lower diversion percent for this type of project may be recommended. This is further discussed below and managed as a phased-in program.

What is the City of Sacramento and Other Jurisdictions Doing?

Driven by the need to comply with the State's waste diversion mandate, the City of Sacramento and other jurisdictions have targeted C&D debris as a priority waste stream that offers a high potential to divert waste from landfills. C&D ordinances of other jurisdictions within the region were reviewed for information on how C&D program measures are being implemented. A summary of these findings is provided in Table 2 of Attachment 4.

The County of Alameda, the City of San Jose, the County of Ventura, the City of Oakland, the City of San Francisco, the City of Santa Monica, the City of Folsom, the City of Woodland, and the City of West Sacramento are among the many local jurisdictions that have adopted C&D ordinances. The City of Stockton is similar to the City of Sacramento in that they are revising their C&D Program, and amending their program policies to include enforcement. The County and City plans are fundamentally consistent, helping to provide a consistent program in the region.

The reason local jurisdictions and the City are targeting C&D waste, in addition to its weight to volume and impact on diversion, is that both its source and disposal points are relatively easy to monitor and regulate because the majority of C&D waste is disposed in the "self-haul" mode as a single source waste stream. Furthermore, C&D waste management goals and strategies can also be encouraged and/or mandated through the building permit process. Since the construction industry is already subject to this local permitting process within an existing institutional framework, it is not difficult to introduce new permitting requirements for C&D waste management.

The City's Current C&D Debris Recycling Program

The Sacramento City Council adopted Ordinance No. 99-015 on April 20, 1999, creating Development Standards for Recycling and Solid Waste Disposal Regulations. Since that time, as part of the entitlement process, a project applicant is required to prepare and submit a Recycling Plan and requested to divert 95% of all C&D debris generated by project development from landfill disposal. Applicants submit a "Statement of Recycling Information" for new developments (Attachment 2A and 2B).

Currently the City requests 95% diversion of C&D materials generated on site. However, there are no enforcement measures if the applicant fails to meet this request.

The City's Proposed Implementation Program

C&D debris program preliminary planning is helping the City to determine the tools and strategies that best apply to local economic conditions, political realities, and individual projects. The Department of Utilities Solid Waste Division and City Building, Planning, Development, Engineering (an Ad hoc Technical Advisory Committee), and industry stakeholders have met and discussed implementation measures that will offer incentives or impose disincentives to encourage builders to adopt diversion goals for construction projects and use non-disposal C&D management strategies. Listed below in order of least aggressive to most aggressive preference, are implementation measures proposed.

Direction is needed from the Law and Legislation Committee on the below. They are also included in Table 1, Attachment 4.

Proposed Implementation Measures:

- **Additional promotion, education, and technical assistance**
A phase-in period before implementing the proposed C&D diversion program/ordinance is planned to provide time to educate staff on how to implement the program and to inform contractors about the ordinance and its requirements. Information will be provided (brochures, letters, fact sheets, online information) on the Waste Management Plan (WMP), available diversion facilities, cost comparisons of recycling facilities versus disposal, etc.
- **Planning requirements**
Up front planning will be required by contractors and project developers for waste management. In estimating the volume or weight of materials identified in the WMP, the applicant shall use the standardized conversion rates provided by Solid Waste staff approved by the Department of Utilities for this purpose.
- **Reporting requirements (results of the WMP's)**
The WMP may be a one page certification by the hauler that indicates the following: (1) Estimated weight of project C&D materials by type to be generated; (2) the maximum volume or weight of C&D that is feasible to divert, considering cost, energy consumption and delays, via reuse or recycling, (3) the vendor or facility that the applicant proposes to use to collect, divert, market, reuse or receive the C&D materials; and (4) the estimated weight of residual C&D materials that would be transported for disposal in a landfill or transformation facility.
- **Diversion requirements (95% diversion)**
The diversion of 95% of inert and 50% of mixed C&D waste generated by a covered project for reuse or recycling is to be determined and is discussed below. The proposed threshold for a covered project is 5,000 square feet and \$100,000 in value. Documentation in the form of weigh tickets will be required to be submitted for proof and confirmation as material is diverted.

The City may phase in the diversion requirements in order to help address the need for infrastructure to build up to accommodate generators. The City may initially require a higher percentage for inert C&D and lower percentage for mixed C&D. Ninety-five percent (95%) diversion can be met for inert C&D; however, it is likely that between 50-75% diversion will be met for all other C&D debris.

For example, in the City of San Jose, there is current infrastructure available to achieve 95% diversion of inerts. However, appropriate infrastructure is needed to address the mixed C&D disposal. Typically, 50-60% recovery of mixed C&D is occurring in San Jose, and therefore, is required. If mixed C&D materials are included with inerts, City of San Jose managers have stated that they may see 90-100% diversion.

City of Sacramento may utilize a phased-in diversion requirement and approach such as:
2008-2010, 50% diversion for mixed C&D, 95% diversion for inerts
2010-2011, 60% diversion for mixed C&D, 95% diversion for inerts
2011-2012, 75% diversion for mixed C&D, 95% diversion for inerts

- **Economic tools (fees, and fines)**

When the project is complete, the permit holder must provide evidence (documentation and weigh tickets) that the demolition debris and excess building materials are taken by a franchised hauler, City hauler or self-hauled to a certified recycling facility, or are reused or donated, otherwise a diversion compliance fine will be applied.

Staff recommends a diversion compliance fine minimum of \$1,000 with a maximum of \$10,000.

Staff reviewed the option of an upfront refundable diversion security deposit to be submitted along with the WMP. The deposit amount would be calculated as the lesser of a certain percentage of total project cost or a maximum amount, for example a sliding scale with a minimum of 0.25% to 3% of project cost, \$250 minimum, and \$10,000 maximum.

However, with input from industry stakeholders the refundable security deposit is not recommended for the following reasons:

1. It would cause undue hardship and an unfair competitive advantage for smaller contractors/builders (additional paperwork and up front funds);
2. A fine would work better as a deterrent to non-compliance than a refundable deposit would work as an incentive to comply;
3. A fine assumes that people are trustworthy and punishes them if they are not, and assumes they are willing to do the right thing;
4. The County and City plans would be more consistent – helping to provide a consistent program in the region.

However, if the applicant does not meet the diversion requirements and is fined, an upfront refundable deposit maybe imposed on any of the applicant's future projects.

Attachment 2(A)

Current Recycling Requirements

17.72.020 Statement of recycling information requirement.

Solid waste manager shall approve a statement of recycling information for new development prior to issuance of a building permit. A statement of recycling information shall include:

A. Site plan to include the location and design specifications of the recycling and trash enclosure(s) and receptacle(s) that shall meet the volume and material requirements (Section 17.72.030 of this chapter) and the development standards (Section 17.72.040 of this chapter). Identify materials to be recycled.

B. Demolition and construction plan to specify any proposed recycling of building material in the demolition of any structure on the site and to specify any recycled material to be used in the construction of the proposed development.

C. Education/public relations program to instruct users of the development about the benefits of recycling and how to recycle. (Ord. 99-015 § 3-4-B)

17.72.030 Recycling volume requirement.

Recycling volume shall be provided and maintained as specified in the table below for the use or uses to which the property is devoted. Fractional requirement: for volume required, fractional requirements up to one-half shall be omitted. One-half or over shall require additional volume.

Land Use	Recycling Volume Required	Recyclable Materials
1. Multi-family residential (5 or more units)	1 cubic yard/16 units	metal, glass, plastic, newspaper (ONP)
2. Commercial		
a. Office and general commercial	1 cubic yard/40,000 square feet	beverage containers, office paper, computer paper, newspaper (ONP), corrugated cardboard (OCC)
b. Restaurant/bar	1 cubic yard/5,000 square feet 90 gallon container minimum	metal, glass, and plastics, corrugated cardboard (OCC)
c. Retail sales	1 cubic yard/8,000 square feet 90 gallon container minimum	corrugated cardboard (OCC), office paper, computer paper

Land Use	Recycling Volume Required	Recyclable Materials
e. Motel/hotel/inn/bed and breakfast	1 cubic yard/20 rooms 90 gallon container minimum	metal, glass, plastics, newspaper (OCC)
f. Auto service and repair	1 cubic yard/3,000 square feet	tires, motor oil, scrap metal
4. Public/quasi-public:		
a. School	1 cubic yard/50 rooms	paper, cardboard, beverage containers
b. Library or church	calculate volume using office sq. ft.	office paper, computer paper
c. Park	supply recycling receptacle with each garbage receptacle unless park prohibits food and drink from outside the park and food and beverage containers provided in the park are paper only	beverage containers
5. Hospital/medical clinic	none except cafeteria (subsection (2)(b)) of this table and vending machines (Section 17.32.060(A) of this chapter)	metal, glass, plastics, corrugated cardboard (OCC)

**Current Construction and Demolition Debris Reporting Requirements:
Statement of Recycling**



DEPARTMENT OF
UTILITIES

SOLID WASTE DIVISION

CITY OF SACRAMENTO
CALIFORNIA

2812 Meadowview Road
Sacramento, CA 95832

Phone: 916-808-4900
Fax: 916-808-4999

Statement of Recycling

Project Developer:

Project Number:

Project Name and Address:

1. The recycling volume requirement for this project is _____ cubic yards. Please refer to the attached section from SCC 17.72.030 to determine the project's recycling volume requirement.
2. Please list the common recyclable items this project will generate once it is owner occupied. Please refer to the attached section from SCC 17.72.030 to determine the common recyclable items for this project.
3. Please describe how you will educate the owners/occupants about the recycling plan for this project.
4. We request that 95% of construction and demolition waste be diverted. Please list the materials from the construction and demolition waste that will be diverted.
5. Please provide the name, address, and phone number of the company you will work with to collect and properly dispose of the construction and demolition waste.
6. Please provide us with the name of the material recovery facility that the recyclables from the construction and demolition waste will go.

Signature

Name

Title

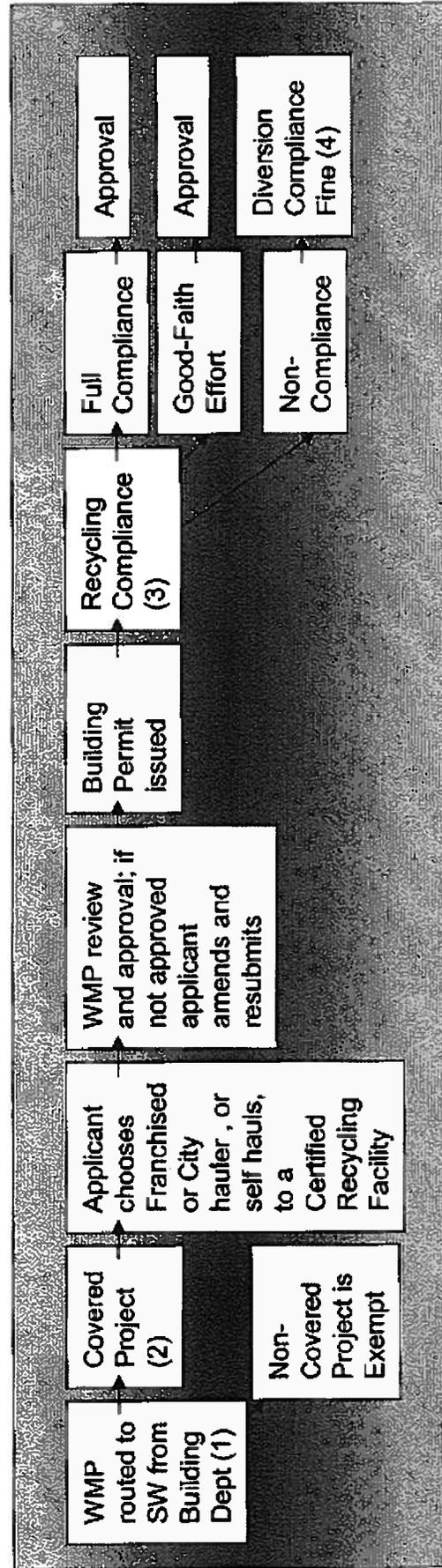
Date



DEPARTMENT
OF UTILITIES
Making a Difference in your Neighborhood

ATTACHMENT 3

C & D Debris Program Flow Chart



Notes:

- (1) Waste Management Plan (WMP) submitted from Applicant to Building Dept. routed to Solid Waste Dept.
- (2) >5,000 sq feet, >\$100,000
- (3) Recycle 95% of concrete and asphalt; 50% of mixed C&D, phased-in over 4 years; submit documentation for confirmation as material is recycled
- (4) Diversion Compliance Fine is issued; used in C&D Enforcement, Education Fund. For non-compliant/ repeat offenders, a refundable deposit may be collected up front for future projects.

Table 1. C&D Debris Program Proposed Implementation Measures

Policy	Description
Implement Mandatory Construction & Demolition Program	The Sacramento City Council adopted Ordinance No. 99-015 on April 20, 1999, creating Development Standards for Recycling and Solid Waste Disposal Regulations. SCC section 17.72.020 requires contractors and construction companies to submit a diversion plan for demolition and new construction/ remodeling.
Waste Management Plan (WMP) Required	The WMP is the process for defining how the diversion activities are to occur for the project. The WMP and its options for compliance will be outlined in a fact sheets available for applicants. Applicant submits the WMP to the City Building Department, routed for approval to the Dept of Utilities Solid Waste Division for the purpose of compliance with the C&D program. New construction and renovation permit applicants for covered projects and all demolition applicants must complete a WMP to comply with the new requirements.
Administer Outreach and Education Program	A phase-in period before implementing the proposed C&D diversion program/ordinance is planned to provide time to educate staff on how to implement and to inform contractors about the ordinance and its requirements. This will help to facilitate greater compliance with diversion requirements and a smoother implementation of the ordinance. The Program will have information (brochures, letters, fact sheets, online information) on the WMP, available diversion facilities, cost comparisons of recycling facilities versus disposal, etc.
Covered Project Threshold: Dollars Square Feet	Construction projects that would be subject to the proposed ordinance: Greater than \$100,000; and Greater than 5,000 Square Feet
Diversion Requirement	The diversion requirement will be at least 95% of inerts (concrete and asphalt), and 50% of non-inerts (dry wall, wood, mixed C&D) of the total C&D materials generated by a covered project for reuse or recycling. Documentation submitted for proof and confirmation as material is diverted will be required.
Diversion Compliance Fine; Refundable Deposit (for Non-Compliant)	<p>A Diversion Compliance Fine will be applied for failure to meet the required diversion minimum.</p> <p>Staff recommends a diversion compliance fine minimum of \$1,000 with a maximum of \$10,000.</p> <p>A Refundable Deposit may be required for applicants that were not compliant and were fined; they would be required to provide an upfront refundable deposit for future projects and eligible for a full refund if evidence of compliance is provided.</p>

ATTACHMENT 4

Table 2. Menu of Options Considered for C&D Ordinance, Compared to Several Neighboring Jurisdictions

Jurisdiction	Waste Mgmt Plan (WMP) required	Use Franchise Hauler or facilities	Security Deposit	C&D covered project threshold (sq. ft.)	C&D covered project threshold (dollars)	Diversion Requirement	Occupancy Certificate Withheld (Y/N)	Enforcement/Penalty
City of Sac (Prelim Proposed)	Yes	Required	No; if non-compliant future dep will apply	5,000 SF	\$100K	95% inerts; 50% noninerts	No	Diversion Compliance Fine (1BD) Security dep - future non-compliant
County of Sac	Yes	Required	No	NA	\$200K	Facility req	No	Administrative Penalties
City of Folsom (Dec. 4, 2006)	Yes	Required	No fee		\$100K (Const, R)	100%	No	Hauler Responsibility (Opt 1)
	Yes		Fee based on SF		\$100K (Const)	50%		Generator Responsibility (Opt 2)
			\$250, 1st 50K SF, \$50 addit 10K SF		All Demo Proj			Diversion compliance fee (Opt 2)
								Fine imposed
City of SF (July 1, 2006)	Yes	No	NA	NA	\$90K	At least 65%	No	Progress payment withheld until submittal
City of San Jose (Oct, 2000)	No	No	Yes, set by resol	NA	Res-new \$115K Com-new \$135K	50%	No	Refundable Security Deposit
City of W. Sac (Jan. 2006)	Yes	Required	Yes	Coming	Coming	50% Constr	Yes	Security Deposit
						Max Concrete, Asphalt		Fine imposed
						50% demolition		
City of Woodland (Sept. 18, 2006)	Yes	Required	Yes	1,000 SF		50%	Stop Work Order	Fine imposed
			\$275 non refundable Admin fee/ea project					
			\$1K deposit if achieving 50% diversion					
City of Stockton	Yes	Required	No	NA	NA	50%	Yes	Fine imposed
City of Citrus Hts	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet
City of Elk Grove	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet
City of Rancho C	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet	Not Yet

Table 3 Reporting Waste Management Plan

ATTACHMENT 4

Construction and Demolition Waste Management Plan and Disposal Report			
Permit Number		Job Address	
Applicant		Contractor License Number	
Construction Type		Phone No	
Recycling Contractor (if applicable)		Project Est. Cost:	
Square Footage:			
MATERIALS	Mixed Recyclables	After Construction (actual tons)	
	Land Clearing	Disposal	Diversion
	Inerts (Concrete, A/C, etc.)	Landfill	On-site reuse
	Drywall	Off site recycle	Where
	Metals		
	Lumber		
	Cardboard		
	Trash		
	Total		

Estimated diversion rate: _____ %

Actual diversion rate: _____ %

OFFICIAL USE ONLY	
Plan Approved	
Information Needed	
Plan Denied	
Project Value	\$
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	
Penalty Paid	\$
Date	
Reviewed/Approved By:	

ATTACHMENT 5

City of Sacramento Proposed Construction and Demolition Debris Recycling Ordinance



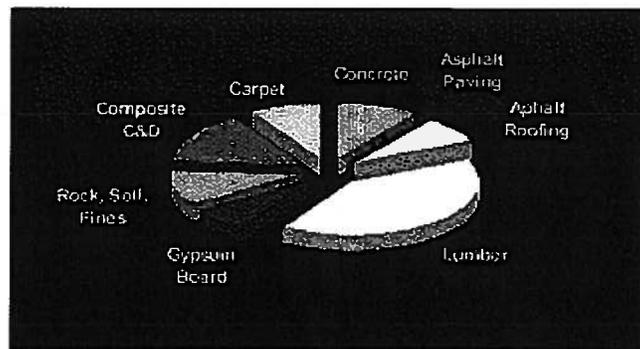
City of Sacramento
Department of Utilities
Solid Waste Division

February 19, 2008



City of Sacramento

C&D debris makes up 20% of the total waste stream. 130K tons can be recovered or recycled – consisting of:



Source: CIWMB 2004 Statewide Characterization Study
City of Sacramento

Current Requirements

- Recycling Plans requested as part of the entitlement process for 95% diversion
- No deposits
- No fines/administrative citations

City of Sacramento

The Proposed Ordinance will:

- Increase the diversion of C&D debris from landfill disposal by 5 to 10%, depending on the building season

City of Sacramento

The Proposed Ordinance will:

- **Enable the City to meet the State mandate of 50% diversion of the total waste stream, and**

City of Sacramento

The Proposed Ordinance will:

- **Move the City toward sustainability by working with neighboring jurisdictions to create market incentives and encourage building the infrastructure to promote waste reduction**

City of Sacramento

Proposed Implementation: Threshold - Covered Projects

Based on:

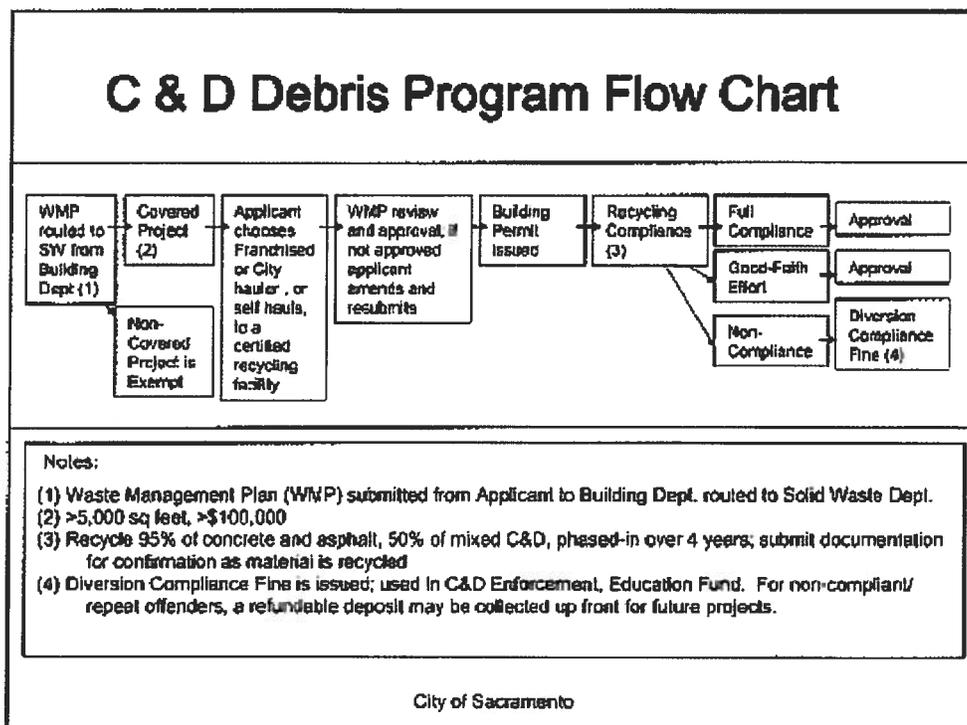
- **Square Feet (>5,000 sq ft)**
- **Project Value (>\$100,000)**

City of Sacramento

Proposed Implementation

- **Waste Management Plan for Covered Projects (one-page)**
- **95% diversion of concrete and asphalt, 50% of mixed C&D debris; Phased in**
- **Diversion Compliance Fine**
- **Education and Technical Assistance**

City of Sacramento



- ## Proposed Documentation TBD
- Pre-project documentation
 - Waste Management Plan (one-page)
 - Use of Franchised Hauler, City Hauler, Self Haul, and Certified Recycling Facility
 - Post-project documentation
 - Facility weigh tickets, hauler bills
 - Proof of salvage or on-site use
- City of Sacramento

Diversion Requirements TBD

Current discussion on:

- **Phase In – 4 year period**
- **Different diversion for non-inerts**
 - **“Must divert 95% of inerts (concrete and asphalt), and 50% of non-inerts (dry wall, wood, metals, etc.)”**

City of Sacramento

Diversion Compliance Fine TBD

- **Based on:**
 - **Square Feet**
 - **Project Value**

Staff recommended fine minimum \$1,000, maximum \$10,000.
- **Different Amounts for:**
 - **Construction**
 - **Demolition**
 - **Alteration**
 - **Roofing**
 - **Residential vs. Commercial**

City of Sacramento

Use of Fine

- Cover administrative, enforcement costs
- Education

City of Sacramento

Questions? Comments

Thank you!

City of Sacramento California
Department of Utilities
Solid Waste Division

City of Sacramento