



**Howard S. Wright
Constructors**

Howard S. Wright Constructors
Department of Information Services
Wheeler Project
Recycling/Waste Management Plan

Prepared by ReNu Recycling Services



September 1, 2009



Contractor	Howard S. Wright Constructors
Project Name	Department of Information Services – Wheeler
Project Location	14th Ave SE & Jefferson St. SE, Olympia, WA 98501
Recycling Coordinator	Mark Kim

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 and reusing materials wherever possible. This project is expected to achieve a minimum recycling rate of 75% by strict adherence to this Waste Management Plan.
2. ReNu Recycling Services will provide Howard S. Wright Constructors with a mix of commingled and source separated drop boxes at the job site as phases dictate. Commingled drop boxes can be filled with any recyclable construction debris material except hazardous or putrescible waste. These drop boxes will be collected and taken to Recovery 1 Inc. in Tacoma, WA for sorting and processing. Source separated materials will be taken to any one of multiple locations for processing depending on material type and site proximity. Materials that can be recycled will be, the residual materials will be transferred to a landfill.
3. Waste prevention and recycling activities will be discussed at the beginning of each monthly safety meeting. As each new subcontractor comes on site, the recycling coordinator will present him/her with a copy of the Waste Management Plan and provide a tour of the recycling areas designated on the site plan. The Waste Management Plan, site plan and all critical recycling information will be posted in the designated recycling area. All subcontractors will be expected to make sure their crews comply with the Waste Management Plan requirements.
4. In addition to providing the recycling service, ReNu will generate a report that shows how much waste was recycled. This report will be used to track progress and report back to Howard S. Wright Constructors on a monthly basis. Samples of these reports and more details on the reports are listed on the following page.
5. The following chart identifies the waste materials that will be generated on this project, the recycling/disposal method for each material and any specific handling procedures.

Waste Management Plan

Material	Qty.	Recycling / Disposal Method	Handling Procedures
Asphalt, Brick, Concrete, Masonry		Recycled – HSW and subcontractors to place material in ReNu's Concrete Only recycling drop box.	ReNu will haul Concrete Only drop boxes directly to Concrete Recyclers, in Tumwater, WA to be processed as recycled aggregate and granular fill.
Cardboard		Recycled – HSW and subcontractors to place material in ReNu's Cardboard Only recycling drop box.	Cardboard will be broken up and folded into flat sheets to be placed in ReNu's Cardboard Only drop boxes and hauled to JMK Fibers in Tacoma, WA for processing. JMK bales the cardboard and ships it to paper mills. Paper mills process the materials into pulp for re-use.
Gypsum Drywall		Recycled – HSW and subcontractors to place material in ReNu's Drywall Only recycling drop box.	ReNu will haul Drywall Only recycling drop boxes directly to DRS, Inc. in Milton, WA for processing. Gypsum is recycled and manufactured into new wallboard.
Metals (All)		Recycled – HSW and subcontractors to place all metal debris in ReNu's Metal Only recycling drop box.	ReNu will haul Metal Only recycling drop boxes directly to Joseph Simon & Sons in Tacoma, WA for salvage/ recycling.
Plastics (All)		Recycled – HSW and subcontractors to place material in ReNu's Commingled recycling drop box.	ReNu will haul Commingled drop boxes to Recovery 1, Inc. in Tacoma, WA to be sorted for recycling.
Wood (All)		Recycled – HSW and subcontractors to place material in ReNu's Wood Only recycling drop box as clean wood.	ReNu will haul Wood Only recycling drop boxes directly to Recovery 1 Inc. in Tacoma, WA for sorting and processing into Wood Derived Fuel (WDF) for use in power generation.
Commingled Debris		Recycled – HSW and subcontractors to place material in ReNu's Commingled recycling drop box.	ReNu will haul Commingled drop boxes to Recovery 1 Inc. in Tacoma, WA for sorting. Metals will be shipped to Joseph Simon & Sons for salvage / recycling, plastics will be baled and shipped to other processors for recycling, cardboard/paper will be baled and shipped to paper mills for use in new containers, wood will be processed into Wood Derived Fuel (WDF) for use in power generation, aggregate will be processed as recycled aggregate and granular fill, directly at Recovery 1, Inc.
Job Office Waste		Recycled	All recyclable job office waste to be deposited into recycle bins and hauled by municipal recycling hauler, LeMay Enterprises Inc., for sorting and recycling.
Non Recyclable Waste		Disposed – HSW and subcontractors to place material in the non recyclable waste container.	Non recyclable waste containers will be sent to a solid waste transfer station and transferred to a landfill by LeMay Enterprises Inc.

ReNu Recycling Program Reports

The following two pages are typical reports that will be generated by ReNu Recycling Services. These progress reports will be submitted to the recycling coordinator and/or designated Howard S. Wright Constructors representative monthly or upon request. The list below provides explanations of the columns shown on the reports:

Diversion Report	Details the quantity of material diverted from the landfill to recycling facilities.
Commingled Debris	Refers to drop boxes that are filled with mixed recyclable materials which are taken to a sorting/processing facility.
Source-Separated Material	Refers to drop boxes that are filled with one material type, i.e.: concrete only. The source-separated material will be sent directly to a recycling facility.
ReNu Diversion Rate	Refers to the percentage of materials in the commingled debris or the source-separated debris that is recycled. The remaining material that cannot be recycled is transferred to a landfill.
Total Diversion Tonnage	Refers to the total tons of both commingled debris and source-separated debris that is recycled.
Tonnage of Materials Generated	Shows the total amount of material generated that is placed in the ReNu recycle boxes and hauled off site for recycling.



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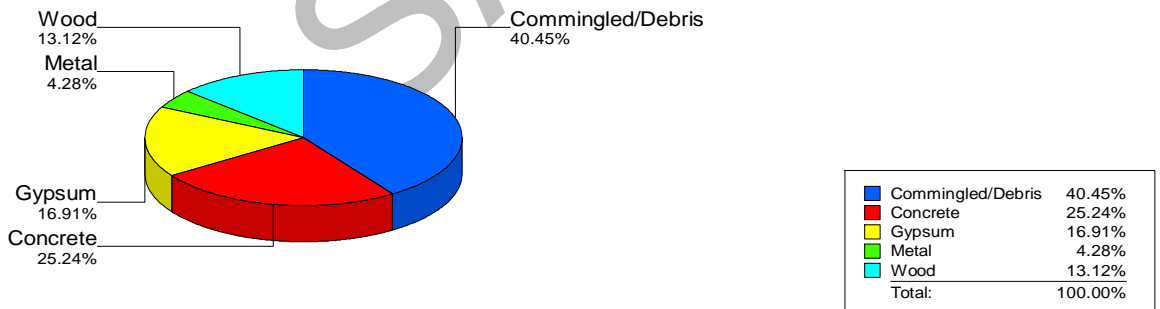
Diversion Report

DEPARTMENT OF INFORMATION SERVICES - WHEELER

Total Tonnage of Materials

	Cardboard	Brush	Concrete	Dirt	Brick	Asphalt	Gypsum	Commingled Debris	Wood	Metal	Total Tonnage
Feb-2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	0.00	0.00	6.14
Mar-2008	0.00	0.00	17.50	0.00	0.00	0.00	0.00	0.00	2.55	0.00	20.05
Apr-2008	0.00	0.00	41.53	0.00	0.00	0.00	0.00	4.45	6.37	6.22	58.57
May-2008	0.00	0.00	51.07	0.00	0.00	0.00	0.00	3.57	10.04	0.00	64.68
Jun-2008	0.00	0.00	47.35	0.00	0.00	0.00	0.00	3.33	15.30	3.09	69.07
Jul-2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.54	20.47	2.38	46.39
Aug-2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.38	20.67	7.69	52.74
Sep-2008	0.00	0.00	0.00	0.00	0.00	0.00	13.15	23.32	8.20	9.94	54.61
Oct-2008	0.00	0.00	0.00	0.00	0.00	0.00	61.23	29.88	4.49	1.91	97.51
Nov-2008	0.00	0.00	0.00	0.00	0.00	0.00	48.97	36.08	1.52	0.00	86.57
Dec-2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.08	4.17	0.00	32.25
Jan-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.16	1.93	0.00	66.09
Feb-2009	0.00	0.00	8.48	0.00	0.00	0.00	0.00	22.57	0.00	0.00	31.05
Totals:	0.00	0.00	165.93	0.00	0.00	0.00	123.35	269.50	95.71	31.23	685.72

Waste Material Generated





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Diversion Report

DEPARTMENT OF INFORMATION SERVICES - WHEELER

Tonnage of Materials Recycled

Work Date	Commingled Debris Tonnage	Diversion Rate	Dedicated Material Tonnage	Diversion Rate	Total Diversion Tonnage	Total Material Diversion %
Feb-2008	6.14	97.71%	0.00	99.00%	6.00	97.71%
Mar-2008	0.00	0.00%	20.05	99.00%	19.85	99.00%
Apr-2008	4.45	97.74%	54.12	99.00%	57.93	98.90%
May-2008	3.57	98.16%	61.11	99.00%	64.00	98.95%
Jun-2008	3.33	98.21%	65.74	99.00%	68.35	98.96%
Jul-2008	23.54	98.14%	22.85	99.00%	45.72	98.57%
Aug-2008	24.38	98.09%	28.36	99.00%	51.99	98.58%
Sep-2008	23.32	98.02%	31.29	99.00%	53.83	98.58%
Oct-2008	29.88	98.19%	67.63	99.00%	96.29	98.75%
Nov-2008	36.08	98.10%	50.49	99.00%	85.38	98.62%
Dec-2008	28.08	97.97%	4.17	99.00%	31.64	98.10%
Jan-2009	64.16	97.88%	1.93	99.00%	64.71	97.91%
Feb-2009	22.57	98.22%	8.48	99.00%	30.56	98.43%
Totals:	269.50	98.04%	416.22	99.00%	676.26	98.62%

Recycling Detail

Material / Facility	Facility Contact Information				Facility Tonnage
Commingled/Debris					
Recovery 1	1630 E 18th ST	Tacoma	WA	98421	150.25
CDL Recycle	5939 4th Ave S	Seattle	WA	98108	119.25
Concrete					
Woodworth	2800 104th ST S	Lakewood	WA	98499	165.93
Gypsum					
Recovery 1	1630 E 18th ST	Tacoma	WA	98421	123.35
Metal					
Simon Metals	2202 East River ST	Tacoma	WA	98421	31.23
Wood					
Recovery 1	1630 E 18th ST	Tacoma	WA	98421	95.71