

Washington Materials Management & Financing Authority
CEP* pounds collected by type and by county
E-Cycle Washington December 2009 and YTD

CEP's collected, including orphans, excluding pounds to re-use. All paid WMMFA transactions 2009			CEP Pounds by County		
	Quantity in pounds by CEP type collected 2009 not including reuse	Percent of total pounds by CEP type YTD	WA State County	Pounds collected 2009 not including reuse	Percent of total pounds by county YTD December
TELEVISIONS			Adams	28,103	0.1%
Household TV	22,157,784		Asotin	105,662	0.3%
School District TV	64,740		Benton	531,031	1.4%
Small Business TV	128,088		Chelan	277,392	0.7%
Total TELEVISIONS	22,350,612	58.0%	Clallam	417,463	1.1%
			Clark	1,631,456	4.2%
			Columbia	24,211	0.1%
			Cowlitz	460,493	1.2%
			Douglas	30,531	0.1%
			Ferry	19,002	0.0%
MONITORS			Franklin	28,764	0.1%
Household Monitors	11,532,872		Garfield	15,478	0.0%
School District Monitors	619,220		Grant	224,432	0.6%
Small Business Monitors	105,375		Grays Harbor	253,974	0.7%
Small Government Monitors	25,778		Island	433,480	1.1%
Charity Monitors	4,489		Jefferson	113,498	0.3%
Total MONITORS	12,287,734	31.9%	King	14,859,553	38.6%
			Kitsap	1,738,263	4.5%
			Kittitas	375,765	1.0%
COMPUTERS (includes laptops)			Klickitat	32,100	0.1%
Household Computers	3,553,272		Lewis	288,108	0.7%
School District Computers	296,463		Lincoln	30,824	0.1%
Small Business Computers	15,899		Mason	275,990	0.7%
Small Government Computers	4,687		Okanogan	78,313	0.2%
Charity Computers	896		Pacific	74,537	0.2%
Total COMPUTERS	3,871,217	10.1%	Pend Oreille	30,654	0.1%
			Pierce	4,405,285	11.4%
			San Juan	35,006	0.1%
			Skagit	501,009	1.3%
			Skamania	40,982	0.1%
			Snohomish	5,494,051	14.3%
			Spokane	1,702,177	4.4%
			Stevens	70,154	0.2%
			Thurston	1,507,710	3.9%
			Wahkiakum	12,635	0.0%
			Walla Walla	265,245	0.7%
			Whatcom	1,111,034	2.9%
			Whitman	179,360	0.5%
			Yakima	805,838	2.1%
Total pounds CEPs by type	38,509,563	100%	Total	38,509,563	100.0%

**CEP's collected, transported, processed,
(recycled). All WMMFA paid transactions
2009**

	ACE METAL COMPANY	E TECH RECYCLING- HILLSBORO	E-WASTE LLC-LYNWOOD	ECS REFINING	EWC GROUP-SEATTLE	ELECTRONIC REC INT-AUBURN	IMS ELECT RECYCLING	TOTAL RECLAIM-SEATTLE	TOTAL
CEP pounds RECYCLED	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
	1,010,066	49,630	1,118,965	394,372	1,505,800	1,789,505	5,738,389	26,313,381	37,920,108
Recycled wood residuals included in CEP pounds recycled						218,508		174,200	392,708
NON-RECYCLED Residuals (wood)	138,000	0	70,300	0	0	0	381,155	0	589,455
RE-USE POUNDS - (processor level only)	0	0	1,000	0	0	0	0	38,111	39,111
TOTAL collected, processed, non-recycled, including to reuse	1,148,066	49,630	1,190,265	394,372	1,505,800	1,789,505	6,119,544	26,351,492	38,548,674
TOTAL (less re-use at processor level)	1,148,066	49,630	1,189,265	394,372	1,505,800	1,789,505	6,119,544	26,313,381	38,509,563

*Note: WMMFA reported pounds represent pounds paid for on a "cash" basis as opposed to an "accrual" basis.

At the end of a given period (week, month) there are pounds:

1. Collected and on hand at a collectors facility awaiting pick up
2. In transit to a processor location
3. At a processor's location in the processing queue
4. Processed, awaiting completion of pounds verification and billing paperwork
5. Processed, billed, but unpaid awaiting additional documentation

These pounds are not included in the "reported" pounds.

IMS Recycling

Facility Name	Street address	City	State	Zip Code	Country
					USA
					USA
					USA
See note, below.					USA
					USA
					USA
					USA
					USA
					USA
					USA
					USA
					Mexico
					USA

Total Reclaim

Facility Name	Street address	City	State	Zip Code	Country
					USA
					USA
					USA
See note, below.					USA
					USA
					USA
					USA
					USA
					Mexico
					USA
					Belgium
					Sweden

E-Tech Recycling

Facility Name	Street address	City	State	Zip Code	Country
					Mexico
					Belgium
See note, below.					USA
					USA
					USA
					USA
					USA
					USA
					USA

ERI

Facility Name	Street address	City	State	Zip Code	Country
					US
					US
See note, below.					Mexico
					US
					US
					US
					US
					US

ECS Refining

Facility Name	Street address	City	State	Zip Code	Country
					USA
					Canada
See note, below.					USA
					USA
					USA
					USA
					USA
					USA
					USA
					USA
					Malaysia
					USA
					USA
					USA
					USA

Note: Proprietary information submitted to the Dept. of Ecology under WAC 173-900 is exempt from public disclosure as per RCW 42.56.270. Ecology received requests from E-Cycle Washington program processors to exempt their downstream vendors from public disclosure. These requests were approved based on the determination that releasing this information could adversely affect the processors' competitive position. As a result, Ecology redacted specific information about downstream vendors other than location by country.

**CEP's collected by WMMFA from non-profit charitable organizations primarily engaged in re-use and re-sale.
All paid transactions 2009
All pounds collected and paid for 2009 total - weights verified at processing. Does NOT include reuse pounds**

Charity Name	CEP Pounds
DESERET INDUSTRIES - FEDERAL WAY	113,313
DESERET INDUSTRIES - SHORELINE	209,846
GOODWILL INDUSTRIES - SHORELINE	11,894
GOODWILL INDUSTRIES - EVERETT OUTLET	68,294
GOODWILL TACOMA HAWKS PRAIRIE	707,540
GOODWILL INDUSTRIES - SEATTLE	8,070,024
GOODWILL INDUSTRIES OF INLAND NW - SPOKANE	1,536,494
GOODWILL INDUSTRIES OUTLET - TACOMA	5,720,922
GOODWILL INDUSTRIES OF COL. WILLAMETTE - VANCOUVER	1,370,722
GOODWILL TACOMA MULLEN LANDFILL	407,268
INTERCONNECTION - SEATTLE	462,335
SALVATION ARMY ABERDEEN	54,368
SALVATION ARMY ARC SEATTLE	1,195,956
SALVATION ARMY BELLINGHAM	48,014
SALVATION ARMY LYNDEN	22,701
SALVATION ARMY MT. VERNON	31,270
SALVATION ARMY SPOKANE	72,486
SALVATION ARMY WENATCHEE	87,699
SALVATION ARMY YAKIMA	83,936
ST.VINCENT DE PAUL-BREMERTON	294,300
ST.VINCENT DE PAUL-LYNNWOOD	370,924
ST.VINCENT DE PAUL-SEATTLE	358,487
ST.VINCENT DE PAUL-TACOMA	98,501
SUNNYSIDE CHRISTIAN THRIFT STORE	19,931
UNION GOSPEL MISSION-YAKIMA	43,551
Total Pounds:	21,460,775

Total pounds received in large quantities from entities other than households. Large quantities are defined as any drop off, pick up, or event where the entity provided 1 pallet or more or multiple quantities from these entities as identified on collector logs received from collectors

Qty in Lbs. 2009 Total	Schools and School Districts generating large quantities (greater than 1 pallet per transaction)			Small Govt's, Charities (other than charities registered as collectors) , small businesses, miscellaneous		
TELEVISIONS						
Charity	0	Aberdeen schools	Highline SD	Richland area schools	CE- Holiday Group	CE-Smith Cooper NW
School District	64,740	Anacortes SD	Issaquah SD	Richland SD	CE-Alderwood Water & WW Dist	CE-Snohomish County PUD
Small Business	128,088	Arlington SD	Kelso SD	Ridgefield SD	CE-Bainbridge Rotary Club	CE-Snohomish County Red Cross
Total TELEVISIONS	192,828	Auburn area schools	Kent SD	Ritzville area schools	CE-Boeing employees day	CE-Snohomish Fire District 1st
		Auburn SD	King County - various and SD	Rochester SD	CE-Clallam County	CE-Sound Mental Health
		Bainbridge Island SD	Lake Shore SD	S. Kitsap SD	CE-Cedar Strand Rental	CE-Tech 1
MONITORS						
Charity	4,489	Bellingham SD	Lake Stevens area schools	Snohomish SD	CE-Charles Right Academy	E-Active Voice Bldg
School Dist	619,220	Benton County schools	Lake Stevens SD	South Whidbey SD	CE-Children's Home Society	E-Boeing Airport Way
Small Business	105,375	Bethel SD	Lakewood SD	Spokane Public Schools	CE-City of Burien	E-Boeing DC - EWC Event
Small Government	25,778	Bothell area schools	Lake Washington SD	Springdale area schools	CE-City of Mukilteo	E-Boeing Safety Day - EWC Event
Total MONITORS	754,862	Castle Rock SD	Marysville SD	St Mary Magdalene Schools	CE-CREAM Computer Don.	E-City of Snoqualmie
		Central Kitsap SD	Mason SD	Stanwood Camano SD	CE-Douglas County	E-Denny Building
		Chelan area schools	Mercer Island SD	Stevens County area schools	CE-Everett Housing Authority	E-E-Waste LLC Sand Point Metro
		Clarkston area schools	Monroe SD	Tacoma area schools	CE-Fred Hutchinson Research	E-Granite Falls - City of
COMPUTERS						
Charity	896	Clover Park SD	Mossy Rock SD	Tahoma SD	CE-Granger School District	E-Lewis County
School District	296,463	Eastmont SD	Mt Baker SD	Tekoa Grade School	CE-Harris Electric, Inc.	E-Packwood collection event
Small Business	15,899	Edmonds SD	Mt. Vernon SD	Toutle SD	CE-King County Flood Relief	E-Philips Oral Healthcare
Small Government	4,687	Everett SD	Mukilteo SD	Toppenish area schools	CE-King County Housing Auth	E-Securities Bldg
Total COMPUTERS	317,945	Federal Way SD	Oak Harbor SD	Walla Walla County schools	CE-Oakwood World Wide	E-Stock Pot
		Fife SD	Okanogan area schools	Whitman County area schools	CE-Our Lady of the Lake	E-Yacolt Clean-up Event
		Franklin Pierce SD	Pasco SD	Woodland SD	CE-Parkway Apts	E-Mercer Island (2)
		Granger SD	Pe Ell SD	Yakima County area schools	CE-Philips Laurel Health Care	E-Sammamish (2)
		Grant area schools	Peninsula SD	Yelm Community SD	CE-PSF Mechanical	E-Enumclaw
		Grays Harbor area schools	Pullman SD		CE-Radio Frame Network	E-Redmond
		Harris SD	Quincy SD		CE-Seattle Housing Authority	E-Kenmore

CE - Covered Entity. Large quantity received directly from a covered entity without going through a collector.

E - Event. Large quantity resulting from a short-term collection event.

TOTAL 1,265,635

(NOT including re-use pounds)

WMMFA Washington Collection Locations – throughout 2009

<i>Collector Site Name</i> <i>*mobile collections as part of service</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>	<i>Effective Date – closed date</i>
Experience Merchandise Thrift Store	Adams County Developmental Disabilities	EPR00547	Adams	1/27/2009
CEP Recycle Asotin Co.	HHH	EPR00471	Asotin	11/17/2008
Goodwill Clarkston Don. Ctr.	Inland Northwest Goodwill	EPR00334	Asotin	8/1/2009
Clayton-Ward Company Kennewick	Clayton-Ward Company	EPR00526	Benton	12/12/2008
Clayton-Ward Company Richland	Clayton-Ward Company	EPR00526	Benton	12/12/2008
Horn Rapids Sanitary Landfill	City of Richland – Landfill	EPR00490	Benton	11/14/2008
Stay Tan West	Stay Tan West	EPR00542	Benton	12/30/2008
City of Chelan Recycle Center	City of Chelan	EPR00514	Chelan	12/9/2008
Salvation Army Wenatchee	The Salvation Army Seattle DHQ	EPR00470	Chelan	9/18/2008
Ecycle NW	Ecycle NW	EPR00262	Clallam	8/22/2008
Goodwill Port Angeles Store	Tacoma Goodwill	EPR00290	Clallam	10/24/2008
AER Vancouver/Portland	AER Corp	EPR00376	Clark	8/22/2008
Goodwill – 205 and Mill Plain Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill – Fourth Plain at 140th Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	2/2/2009
Goodwill – Main and Fourth Plain Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Battleground Store	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Cascade Park Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Fishers Landing Store	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Hazel Dell Store	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Orchards Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Salmon Creek Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Salmon Creek Store	Columbia Willamette Goodwill	EPR00343	Clark	1/16/2009
Goodwill SE Vancouver Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Vancouver Outlet	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
Goodwill Washougal Donation Center	Columbia Willamette Goodwill	EPR00343	Clark	9/18/2008
IMS Electronics Recycling	IMS Electronics Recycling	EPR00311	Clark	9/2/2008
Washougal Facility	PSC Environmental Services	EPR00312	Clark	11/21/2008
CEP Recycle Columbia Co.	HHH	EPR00471	Columbia	11/18/2008
Goodwill Longview Store	Tacoma Goodwill	EPR00290	Cowlitz	10/24/2008
Waste Control Recycling	Waste Control Recycling	EPR00443	Cowlitz	9/18/2008

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Goodwill East Wenatchee Store	Inland Northwest Goodwill	EPR00334	Douglas	8/22/2008
Inchelium Community Center – Scheduled EVENTS only	Colville Confederated Tribes	EPR00578	Ferry	4/9/2009
Keller Community Center – Scheduled EVENTS only	Colville Confederated Tribes	EPR00578	Ferry	4/9/2009
Torboy Transfer Station	Ferry County Waste Management	EPR00487	Ferry	12/29/2008
Tommy’s Steel & Salvage	Tommy’s Steel & Salvage	EPR00519	Franklin	12/8/2009
CEP Recycle Garfield Co.	HHH	EPR00471	Garfield	12/16/2008
Consolidated Disposal Service	Consolidated Disposal Service, Inc.	EPR00279	Grant	8/22/2008
CDSI Transfer & Recycling	CDSI Transfer & Recycling	EPR00279	Grant	8/22/2008
GCD Seniors	Grand Coulee Dam Area Seniors, Inc	EPR00330	Grant	7/7/2008
Goodwill Moses Lake Store	Inland Northwest Goodwill	EPR00334	Grant	8/22/2008
Salvation Army Aberdeen	The Salvation Army Seattle DHQ	EPR00470	Grays Harbor	9/18/2008
Tek Eaze	Tek Eaze	EPR00571	Grays Harbor	9/9/2009
Waste Connections Inc dba Aberdeen Sanitation	Waste Connections Inc dba Aberdeen Sanit	EPR00522	Grays Harbor	12/11/2008
Camano Island Transfer Station & Recycle Park	Island County Public Works SW Division	EPR00530	Island	12/15/2008
Island Recycling	Island Recycling	EPR00517	Island	12/3/2008
Oak Harbor Drop Box Station	Island County Public Works SW Division	EPR00530	Island	12/15/2008
Goodwill Port Townsend Store	Tacoma Goodwill	EPR00290	Jefferson	10/24/2008
1 Green Planet	1 Green Planet	EPR00611	King	9/1/2009
Public Recycling Center – Pacific	Commercial Metal Recycling	EPR00583	King	4/28/2009
3R Technology	3R Technology	EPR00370	King	8/8/2008
A Plus Removal and Recycle	A Plus Removal & Recycle	EPR00491	King	11/13/2008
American Electronics Recycling – Kent	AER Corp	EPR00376	King	8/22/2008
American Electronics Recycling Corp – Tukwila	AER Corp	EPR00376	King	1/7/2009
AtWork! Issaquah Recycling Center	AtWork!	EPR00540	King	12/29/2008
*Busby Junk Removal - some mobile collections	Busby Junk Removal, LLC	EPR00466	King	9/18/2008
Computer Recycling Service	Computer Recycling Service, Inc.	EPR00377	King	8/22/2008
Deseret Industries – Federal Way	Deseret Industries	EPR00546	King	2/11/2009
Deseret Industries – Shoreline	Deseret Industries	EPR00546	King	2/11/2009
EC Computer	EC Computer	EPR00531	King	12/16/2008
EcoLights Northwest	Total Reclaim, Inc.	EPR00544	King	12/30/2008
EWC Group, Inc	EWC Group, Inc	EPR00472	King	1/20/2009
George Electronix	George Electronix	EPR00549	King	1/13/2009

<i>Collector Site Name</i> <i>*mobile collections as part of service</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>	<i>Effective Date – closed date</i>
Goods for the Planet	Goods for the Planet, Inc.	EPR00386	King	12/12/2008
Goodwill Auburn Store	Tacoma Goodwill	EPR00290	King	10/24/2008
Goodwill Ballard Store	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Bellevue P&R Donation Center	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Burien Store	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Federal Way Store	Tacoma Goodwill	EPR00290	King	10/24/2008
Goodwill Kent Store	Tacoma Goodwill	EPR00290	King	10/24/2008
Goodwill Kingsgate Donation Center	Seattle Goodwill	EPR00310	King	12/18/2008
Goodwill Maple Valley Store	Tacoma Goodwill	EPR00290	King	10/24/2008
Goodwill Newport Hills Donation Center	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Renton Store	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Sammamish Donation Center	Seattle Goodwill	EPR00310	King	12/18/2008
Goodwill Seattle Store	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Shoreline Store	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Southcenter Store	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Totem Lake Donation Center	Seattle Goodwill	EPR00310	King	9/18/2008
Goodwill Woodinville P&R Donation Center	Seattle Goodwill	EPR00310	King	9/18/2008
InterConnection Computer Reuse	InterConnection Computer Reuse	EPR00369	King	9/8/2008
Mitronics	Mitronics	EPR00559	King	1/28/2009
PC Recycle – Bellevue	PC Recycle	EPR00365	King	9/11/2008
PC Recycle – Federal Way	PC Recycle	EPR00365	King	9/11/2008
PC Recycle – Woodinville	PC Recycle	EPR00365	King	9/11/2008
PSC – Georgetown	PSC Environmental Services	EPR00312	King	11/5/2008
RE-PC Seattle	RE-PC	EPR00426	King	9/12/2008
RE-PC Tukwila	RE-PC	EPR00426	King	9/12/2008
Salvation Army Burien Store	The Salvation Army Seattle ARC	EPR00543	King	12/30/2008
Salvation Army Covington Donation Site	The Salvation Army Seattle ARC	EPR00543	King	12/30/2008
Salvation Army Midway Thrift Store	The Salvation Army Seattle ARC	EPR00543	King	12/30/2008
Salvation Army Redmond Donation Site	The Salvation Army Seattle ARC	EPR00543	King	4/24/2009
Salvation Army Renton Thrift Store	The Salvation Army Seattle ARC	EPR00543	King	12/30/2008
Salvation Army Seattle ARC	The Salvation Army Seattle ARC	EPR00543	King	12/30/2008
Santamaria and Sons Ravensdale	Santamaria and Sons, Inc	EPR00314	King	9/18/2008

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Sefrioui Badissy Foundation	Sefrioui Badissy Foundation	EPR00573	King	4/2/2009
St Vincent de Paul 1st Ave S	St Vincent de Paul Seattle/King County	EPR00525	King	12/31/2008
St Vincent de Paul Aurora Ave N	St Vincent de Paul Seattle/King County	EPR00525	King	12/31/2008
St Vincent de Paul Bothell Way NE	St Vincent de Paul Seattle/King County	EPR00525	King	12/31/2008
St Vincent de Paul Sunset Blvd NE	St Vincent de Paul Seattle/King County	EPR00525	King	12/31/2008
State Surplus Auburn Site	Dept of General Administration / Surplus	EPR00480	King	12/11/2008
*Total Reclaim 6th Ave Site - <i>some mobile collections</i>	Total Reclaim, Inc.	EPR00544	King	12/30/2008
Enumclaw Expo Center EVENT	Total Reclaim/ Olympic Environmental	EPR00544	King	6/25/2009
Mercer Island Boat Launch EVENT	Total Reclaim/ Olympic Environmental	EPR00544	King	3/28/2009 10/28/2009
Sammamish Eastlake HS EVENT	Total Reclaim/ Olympic Environmental	EPR00544	King	4/25/2009 9/30/2009
Kenmore NS Park and Ride EVENT	Total Reclaim/ Olympic Environmental	EPR00544	King	10/10/2009
Redmond Overlake Christian Church EVENT	Total Reclaim/ Olympic Environmental	EPR00544	King	6/19/2009
Bainbridge Island Transfer S	Bainbridge Disposal	EPR00374	Kitsap	12/31/2008
Bremerton St. Vincent dePaul	St Vincent de Paul Bremerton	EPR00494	Kitsap	11/19/2008
Goodwill Bainbridge Island Don. Center	Seattle Goodwill	EPR00310	Kitsap	12/12/2008
Goodwill Bremerton Store	Seattle Goodwill	EPR00310	Kitsap	9/18/2008
Goodwill Silverdale Store	Seattle Goodwill	EPR00310	Kitsap	9/18/2008
Goodwill Port Orchard Store	Seattle Goodwill	EPR00310	Kitsap	9/18/2008
Olympic View Transfer Station	Waste Management of Washington	EPR00264	Kitsap	1/12/2009
Peninsula All Shred	All Shred	EPR00502	Kitsap	11/24/2008
Recycle Earth Inc	Recycle Earth	EPR00550	Kitsap	2/1/2009
Cle Elem Trading Post	Cle Elem Trading Post	EPR00527	Kittitas	12/30/2008
Goodwill Ellensburg Store	Tacoma Goodwill	EPR00290	Kittitas	10/24/2008
Kittitas Valley Recycling – Chem. Safe	Kittitas Valley Recycling – Chem. Safe	EPR00515	Kittitas	12/3/2008
Regional Disposal Company - Goldendale Transfer	Regional Disposal Company	EPR00482	Klickitat	10/29/2008
Goodwill Centralia Store	Tacoma Goodwill	EPR00290	Lewis	10/24/2008
Lincoln County Transfer Station	Lincoln County Transfer Station	EPR00367	Lincoln	9/8/2008
Wilson Recycling LLC	Wilson Recycling LLC	EPR00513	Mason	12/9/2008
Green Okanogan Recycle – Events only	Green Okanogan Recycle – Events only	EPR00572	Okanogan	4/13/2009
Methow Recycles	Methow Recycles	EPR00298	Okanogan	11/17/2008
Nespelem Community Center – Events Only	Colville Confederated Tribes	EPR00578	Okanogan	4/9/2009
Omak Community Center – Events Only	Colville Confederated Tribes	EPR00578	Okanogan	4/9/2009

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Pacific Solid Waste Disposal	Pacific Solid Waste Disposal Inc	EPR00371	Pacific	9/11/2008
Royal Heights Transfer Station	Royal Heights Transfer Station	EPR00488	Pacific	11/5/2008
Deer Valley Transfer Station	Pend Oreille Co Public Works	EPR00404	Pend Oreille	10/3/2008
Better PC Recycle LLC (formerly SM Metals)	Better PC Recycle LLC (formerly SM Metals)	EPR00509	Pierce	5/15/2009 closed 12/16/2009
Ft Lewis Recycle Center	LeMay Inc	EPR00529	Pierce	12/26/2008
Goodwill 38 Street Donation Station	Tacoma Goodwill	EPR00290	Pierce	10/24/2008
Goodwill 6th Ave Plaza Store	Tacoma Goodwill	EPR00290	Pierce	12/5/2008
Goodwill 72 Street Store	Tacoma Goodwill	EPR00290	Pierce	10/24/2008
Goodwill Bonney Lake Wal-Mart Donation Station	Tacoma Goodwill	EPR00290	Pierce	12/5/2008
Goodwill Dollar Tree Donation Station	Tacoma Goodwill	EPR00290	Pierce	12/5/2008 closed
Goodwill Gig Harbor Store	Tacoma Goodwill	EPR00290	Pierce	10/24/2008
Goodwill Key Peninsula Mkt Donation Station	Tacoma Goodwill	EPR00290	Pierce	10/24/2008
Goodwill Lakewood Store	Tacoma Goodwill	EPR00290	Pierce	10/24/2008
Goodwill Meridian WalMart	Tacoma Goodwill	EPR00290	Pierce	1/13/2009
Goodwill Puyallup K Mart Store	Tacoma Goodwill	EPR00290	Pierce	10/24/2008
Goodwill Rite Aid 176th Donation Station	Tacoma Goodwill	EPR00290	Pierce	12/5/2008
Goodwill Roses IGA Donation Station	Tacoma Goodwill	EPR00290	Pierce	10/27/2008
Goodwill South Hill Store	Tacoma Goodwill	EPR00290	Pierce	10/27/2008
Goodwill Spanaway Store	Tacoma Goodwill	EPR00290	Pierce	10/27/2008
Goodwill TACID Donation Station	Tacoma Goodwill	EPR00290	Pierce	10/27/2008
Goodwill Tacoma Landfill & Recycle Donation Station	Tacoma Goodwill	EPR00290	Pierce	10/27/2008
Goodwill Top Foods Donation Station	Tacoma Goodwill	EPR00290	Pierce	12/5/2008
Green PC (formerly MIC Total)	Green PC (formerly MIC Total)	EPR00520	Pierce	MIC 1-9-09 until 7/8/2009
McChord Recycling Center	McChord Air Force Base	EPR00421	Pierce	12/9/2008
MONARCH ASSOCIATION	Monarch Association	EPR00535	Pierce	12/26/2008
Oakland Radio and TV	Oakland Radio and TV Inc	EPR00418	Pierce	9/11/2008
PC Computers	PC Computers	EPR00581	Pierce	5/4/2009 closed 10/26/2009
Public Recycling Center - Canyon Rd	Commercial Metal Recycling	EPR00583	Pierce	4/28/2009
Salvation Army Bonney Lake Donation Site	The Salvation Army Seattle ARC	EPR00543	Pierce	12/30/2008
Salvation Army Puyallup Donation Site	The Salvation Army Seattle ARC	EPR00543	Pierce	12/30/2008
Salvation Army Puyallup Thrift Store	The Salvation Army Seattle ARC	EPR00543	Pierce	12/30/2008
SBK Storage Recycling	SBK Storage	EPR00564	Pierce	3/20/2009

<i>Collector Site Name</i> <i>*mobile collections as part of service</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>	<i>Effective Date – closed date</i>
St. Vincent de Paul S. 56th St.	St Vincent de Paul Tacoma	EPR00561	Pierce	2/13/2009
St. Vincent de Paul South Hill Meridian Ave E.	St Vincent de Paul Tacoma	EPR00561	Pierce	2/13/2009
Tacoma Recycling Co	Tacoma Recycling Co., Inc.	EPR00477	Pierce	12/4/2008
Consignment Treasures LLC	Consignment Treasures LLC	EPR00489	San Juan	11/7/2008
The Exchange	Orcas Recycling Services	EPR00512	San Juan	3/18/2009
Aktion Club of Anacortes	Aktion Club of Anacortes	EPR00523	Skagit	12/19/2008
Appliance Connection	Jaco Environmental	EPR00486	Skagit	3/20/2009
Goodwill Mount Vernon Store	Seattle Goodwill	EPR00310	Skagit	9/18/2008
Salvation Army Mt Vernon Thrift Store	The Salvation Army Seattle ARC	EPR00543	Skagit	12/30/2008
Sedro-Woolley City Recycling Facility	City of Sedro-Woolley	EPR00324	Skagit	8/22/2008
Underwood Transfer Facility	Skamania County Solid Waste Division	EPR00358	Skamania	9/8/2008
Stevenson Transfer Station	Skamania County Solid Waste Division	EPR00358	Skamania	9/8/2008
Mt Pleasant Transfer Station	Skamania County Solid Waste Division	EPR00358	Skamania	9/8/2008
Ace Metal Company and Mukilteo Recycling Center	Ace Metal Company	EPR00557	Snohomish	2/20/2009
Appliance Recycling Outlet	Jaco Environmental	EPR00486	Snohomish	11/14/2008
E-Waste, LLC	E-Waste LLC	EPR00446	Snohomish	4/9/2009
Goodwill Lynnwood Store	Seattle Goodwill	EPR00310	Snohomish	9/18/2008
Goodwill Marysville	Seattle Goodwill	EPR00310	Snohomish	9/18/2008
Goodwill Mill Creek Donation Center	Seattle Goodwill	EPR00310	Snohomish	9/18/2008
Goodwill Monroe Donation Center	Seattle Goodwill	EPR00310	Snohomish	9/18/2008
Goodwill South Everett Store	Seattle Goodwill	EPR00310	Snohomish	9/18/2008
Kolb Enterprize	Kolb Enterprize	EPR00590	Snohomish	6/19/2009
PC Recycle - Lynnwood	PC Recycle	EPR00365	Snohomish	9/11/2008
PC Recycle - Marysville	PC Recycle	EPR00365	Snohomish	9/11/2008
Rubatino Refuse Removal	RUBATINO REFUSE REMOVAL INC	EPR00368	Snohomish	1/10/2009 registration expired 2009
Salvation Army Lynnwood Donation Center	The Salvation Army Seattle ARC	EPR00543	Snohomish	12/30/2008
Salvation Army Snohomish Donation Center	The Salvation Army Seattle ARC	EPR00543	Snohomish	12/30/2008
Smokey Point Recycling	Smokey Point Recycling	EPR00591	Snohomish	6/15/2009
Snohomish County Recycling and Transfer Station Airport Rd.	Snohomish County	EPR00266	Snohomish	11/08 – 7/09
Snohomish County North County Recycling & Transfer Station	Snohomish County	EPR00266	Snohomish	11/08 – 7/09
Snohomish County SW Recycling & Transfer Station	Snohomish County	EPR00267	Snohomish	11/08 – 7/09

<i>Collector Site Name</i> <i>*mobile collections as part of service</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>	<i>Effective Date – closed date</i>
St Vincent dePaul Lynnwood	St Vincent de Paul Northsound	EPR00560	Snohomish	1/28/2009
St. Vincent dePaul Everett	St Vincent de Paul Northsound	EPR00560	Snohomish	1/28/2009
St. Vincent dePaul Monroe	St Vincent de Paul Northsound	EPR00560	Snohomish	1/28/2009 (quit accepting)7/09
TK Enterprise	TK Enterprise	EPR00516	Snohomish	12/3/2008
*Truck On Call - some mobile collections	Truck On Call	EPR00528	Snohomish	12/19/2008
Earthworks Recycling, Inc.	Earthworks Recycling, Inc.	EPR00305	Spokane	1/13/2009
Goodwill Cheney Donation Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill Downtown Spokane Plant/Dock Donation Cent	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill North Division Y Donation Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill North Nevada Store	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill NW Spokane Donation Center Wellesley	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill Palouse Hwy Donation Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill South Spokane Donation Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill Spokane Valley Store	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill Spokane Valley Argonne Donation Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill Spokane Valley Dishman-Mica Don. Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Goodwill Wandermere Donation Center	Inland Northwest Goodwill	EPR00334	Spokane	8/22/2008
Inland ReTech	Electronic Recycling, LLC dba Inland ReTech	EPR00335	Spokane	12/12/2008
Jaco Environmental	Jaco Environmental	EPR00486	Spokane	3/26/2009
Recycle Techs	Recycle Techs	EPR00478	Spokane	10/8/2008
Salvation Army Spokane	The Salvation Army Seattle DHQ	EPR00470	Spokane	9/18/2008
Salvation Army Spokane Valley	The Salvation Army Seattle DHQ	EPR00470	Spokane	9/18/2008
Goodwill Colville Store	Inland Northwest Goodwill	EPR00334	Stevens	8/22/2008
Goodwill Lacey Store	Tacoma Goodwill	EPR00290	Thurston	10/24/2008
Goodwill Mega Foods Donation Station	Tacoma Goodwill	EPR00290	Thurston	10/24/2008
Goodwill Olympia Store	Tacoma Goodwill	EPR00290	Thurston	10/24/2008
Goodwill South Lacey Donation Station	Tacoma Goodwill	EPR00290	Thurston	12/5/2008
Goodwill Thurston County Waste And Recovery Donat	Tacoma Goodwill	EPR00290	Thurston	10/24/2008
Goodwill Yelm WalMart Donation Station	Tacoma Goodwill	EPR00290	Thurston	4/14/2009
MIDWAY RECOVERY INC.	MIDWAY RECOVERY INC.	EPR00554	Thurston	1/26/2009
State Surplus Tumwater Site	Dept of General Administration / Surplus	EPR00480	Thurston	11/5/2008
Stanley's Sanitary Service	Stanley's Sanitary Service LLC	EPR00493	Wahkiakum	11/18/2009

<i>Collector Site Name</i> <i>*mobile collections as part of service</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>	<i>Effective Date – closed date</i>
CEP Recycle Walla Walla	HHH	EPR00471	Walla Walla	9/25/2008
Walla Walla Recycling	Walla Walla Recycling Inc	EPR00496	Walla Walla	11/21/2008
Goodwill Bellingham Store	Seattle Goodwill	EPR00310	Whatcom	9/18/2008
Recycling & Disposal Services, Inc.	Recycling & Disposal Services, Inc.	EPR00510	Whatcom	12/3/2008
Safe And Easy Recycling	Safe And Easy Recycling	EPR00397	Whatcom	9/12/2008
Safe And Easy Recycling (North County)	Safe And Easy Recycling	EPR00397	Whatcom	1/13/2009
Salvation Army Bellingham	The Salvation Army Seattle DHQ	EPR00470	Whatcom	9/18/2018
Salvation Army Lynden	The Salvation Army Seattle DHQ	EPR00470	Whatcom	9/18/2008
Goodwill Pullman Donation Center	Inland Northwest Goodwill	EPR00334	Whitman	12/10/2008
Pullman Disposal Shop	Pullman Disposal Service, Inc.	EPR00299	Whitman	10/1/2008
Goodwill Chalet Plaza Donation Station	Tacoma Goodwill	EPR00290	Yakima	10/24/2008
Goodwill Selah Store	Tacoma Goodwill	EPR00290	Yakima	10/27/2008
Goodwill Yakima K Mart Donation Station	Tacoma Goodwill	EPR00290	Yakima	10/24/2008
Goodwill Yakima Red Robin Donation Station	Tacoma Goodwill	EPR00290	Yakima	10/27/2008
Goodwill Yakima Store	Tacoma Goodwill	EPR00290	Yakima	10/27/2008
Salvation Army Union Gap	The Salvation Army Seattle DHQ	EPR00470	Yakima	9/18/2008
Salvation Army Yakima	The Salvation Army Seattle DHQ	EPR00470	Yakima	9/18/2008
Sunnyside Christian Thrift Shop	Sunnyside Christian Thrift Shop	EPR00566	Yakima	3/6/2009
Union Gospel Mission Yakima	Union Gospel Mission Yakima	EPR00568	Yakima	2/27/2009
Yakima Waste Systems Granger	Yakima Waste Systems, Inc.	EPR00463	Yakima	11/5/2008
Yakima Waste Systems Yakima	Yakima Waste Systems, Inc.	EPR00463	Yakima	11/5/2008

Processors participating in WMMFA Standard Plan

Description of processes and methods

Reference to compliance audits

The information listed below represents a summary of processor locations and processing methods of each of the approved processors participating in the Standard Plan. Processes listed include all those used and/or discontinued throughout 2009.

For the most current compliance audit report please refer to the WMMFA Standard Plan Processor section at this link:

<http://www.ecy.wa.gov/programs/swfa/eproductrecycle/docs/StandardPlanProcessorsMay202009.pdf>

Ace Metal Company, 11110 Mukilteo Speedway #202, Mukilteo, WA 98275		Elcid Choi	(425)493-6802
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Removed from CEP by hand dismantling separated panel and funnel, all metal removed	Glass to glass, all materials are reused in new glass product	Mexico
Circuit Boards	Removed from CEP by hand dismantling	Precious metals recovery	Belgium
Batteries	Hand removed from CEP and sorted by type	Metal Recovery	USA
Mercury Devices	Hand removed from CEP managed as universal waste	Retort Mercury Recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Hand removed from CEP and sorted	Metal Recovery	USA
Plastics	Hand removed from CEP and sorted	Plastic Recovery	USA
Insulated Wire	Hand removed from CEP and sorted	Metal Recovery	China
Aluminum	Hand removed from CEP and sorted	Metal Recovery	USA

EWC Group, 410 Andover Park E., Tukwila, WA 98188		Clara Jung		(206)767-9950	
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country		
CRT Glass	Manually removed from CEP; separate panels, metals, and all other residuals	Glass to glass; all materials reused in new glass products	Mexico / U.S.		
Circuit Boards	Manually removed from CEP	Primary smelter for precious metal recovery	S. Korea / U.S.		
Batteries	Manually removed from CEP and sorted by type	Metal Recovery	S. Korea		
Mercury Devices	Manually removed from CEP and managed as Universal Waste	Mercury recovery	U.S.		
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination		
Steel	Manually removed from CEP	Metal recovery	U.S.		
Plastics	Manually removed from CEP	Plastic Recovery	China		
Insulated Wire	Manually removed from CEP	Metal recovery	China / S. Korea		
Aluminum	Manually removed from CEP	Metal Recovery	China / S. Korea		

IMS Electronic Recycling, 2401 Saint Francis Lane, Vancouver, WA 98660		David Palenshus		(360)750-8883	
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country		
CRT Glass	Removed from CEP and separated panel and funnel all metal removed	Glass to Glass, all materials are reused in new glass product	Mexico		
Circuit Boards	Removed from CEP by hand dismantling or Automated shred/sort	Primary smelter recovering metals	Sweden		
Batteries	Hand removed from CEP sorted by type	Metals Recovery	U.S.		
Mercury devices	Hand removed from CEP packed in lined sealed containers	Mercury recovery	U.S.		
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination		
Steel	Removed from CEP by hand dismantling or Automated shred/sort	Metal Recovery	U.S.		
Plastics	Removed from CEP by hand dismantling or automated shred/sort	Plastic Recovery	U.S.		
Insulated Wire	Removed from CEP by hand dismantling or automated shred/sort	Metal Recovery	U.S.		
Aluminum	Removed from CEP by hand dismantling or automated shred/sort	Metal Recovery	U.S.		

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Removed whole from CEP.	Glass to glass, all materials are used reused as raw material for new products	United States
Circuit Boards	Removed from CEP by hand-dismantling	Primary smelter recovery metals	United States
Batteries	Hand-removed from CEP, sorted by type.	Metal Recovery	United States
Mercury Containing Lamps	Hand-removed from CEP, stored in closed containers.	Mercury Recovery	United States
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by hand-dismantling.	Metal Recovery	United States
Plastics	Removed from CEP by hand-dismantling.	Plastics Recovery	United States
Insulated Wire	Removed from CEP by hand-dismantling.	Metal Recovery	United States
Aluminum	Removed from CEP by hand-dismantling.	Metal Recovery	United States
Scrap Wood	Removed from CEP by hand-dismantling.	Solid Waste Landfill (via Transfer Station)	United States

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRTs	Most CRTs are dismantled and the glass is crushed on-site.	Downstream recyclers are discussed in Lead-Containing Glass, below.	See Below
	All other CRTs are refurbished for resale.	Such use (after sale) is not subject to additional due diligence requirements.	Not Applicable
Lead-Containing Glass	CRTs that are not refurbished for resale are dismantled and the glass is crushed on-site.	ECS prefers to ship lead- containing glass to a CRT Tube manufacturer, which uses the glass to make new CRT Tubes (glass to glass recycling).	TDM (Mexico)
		Lead-containing CRT Glass not shipped for glass-to-glass recycling is shipped to a Lead (Pb) Smelter which recovers the lead as a commodity and sells it on the world market.	Xstrata (New Brunswick, Canada) or Doe Run (Herculaneum, MO, USA)
Circuit Boards (Whole)	Circuit Boards are shredded to a minus 2” particles size. The iron & aluminum are removed by magnetic & eddy current separation.	Shredded circuit boards are shipped to a primary copper smelter which recovers copper, gold, silver and palladium as well as other minor elements. The metals are sold as commodities on the world market.	Xstrata-Horne (Rouyn Noranda, Quebec, Canada)

Batteries	Batteries are manually removed from electronic devices. The batteries are sorted by type (Alkaline, Lithium, etc).	Lead/Acid batteries are shipped to a battery manufacturer which recycles the batteries by melting the lead and using it in the manufacture of new batteries. Silver oxide batteries are smelted on-site and their silver content is captured by ECS. Post smelted materials are sent for further precious metals processing. All other batteries are shipped to a high temperature alloy producer which melts the batteries by their specific type to recover the respective metals.	Excide (USA) Xstrata, Recycling, Providence RH Metal Conversion Technologies (USA)
Mercury Devices	Mercury devices are received and stored for off-site processing (fluorescent lighting tubes, for example) or mercury devices may be manually removed from other electronic devices.	All mercury-containing devices are shipped to an EPA approved mercury recycler which removes the mercury from the device and produces mercury as a commodity for sale.	AERC (USA)
PCBs	PCBs are not intentionally accepted at ECS. If such material was received, it would be returned to the generator.	Not Applicable	Not Applicable
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Electronic scrap is shredded to a minus 2” particle size and then the steel is magnetically removed.	The steel is shipped to a steel mill where the steel is melted to produce new steel products (steel rod, plate or bars)	Taiwan
Plastics	Plastics are manually removed from the electronic scrap and baled by type of plastic (ABS, HIPS, PC etc.)	The plastic is sold to a plastics processor which grinds the plastic for sale as a raw material feed to manufacturers of plastic products.	Hong Kong & China

Insulated Wire	Wire is manually and mechanically removed from electronic scrap.	The wire is shipped to a wire chopping company which mechanically chops the wire and then uses air and/or water to separate the copper from the plastic. The copper & plastic are sold as commodities.	China
Aluminum	Electronic scrap is shredded to a minus 2” particle size and then the aluminum is removed by eddy current separation.	The aluminum is shipped to aluminum alloyers which melt the aluminum and produce aluminum alloys for sale.	USA & Taiwan

ERI Inc., 2302 West Valley Highway, Ste 300., Auburn, WA 98001			
		Aaron Blum	(206)577-1490
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	It is removed from CEP and screen and metal gun removed.	Glass to Glass recycling to be reused in new CRT products.	Technologies Displays Mexicano in Mexicali, Mexico.
Circuit Boards	Boards are removed from CEP by manual separation. They are then sent to our Fresno facility for shredding.	Precious Metals Recovery	Belgium or S. Korea
Batteries	Removed manually and sorted by type	Metal Recovery	US
Mercury devices	Removed manually and managed as universal waste.	Mercury Recovery	US
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed Manually and sent to Fresno to be shredded	Metal Recovery	US
Plastics	Removed manually from CEP and bailed	Plastics Recovery	ASIA
Insulated Wire	Removed manually from CEP and sent to Fresno for Shredding	Metal Recovery	Belgium or S. Korea
Aluminum	Removed manually from CEP and sorted.	Metal Recovery	US

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Removed from CEP, funnel, metal band, and gun removed at smelter	Glass to glass, all materials are reused in new glass product	Mexico
Circuit Boards	Removed from CEP by hand-dismantling	Primary smelter recovering metals	Belgium
Batteries	Hand-removed from CEP, sorted by type	Metal recovery	U.S.
Mercury devices	Hand-removed from CEP, managed as universal waste	Mercury recovery	U.S.
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by hand-dismantling	Metal recovery	U.S. & South Korea
Plastics	Plastics are manually removed from the electronic scrap and baled by type of plastic (ABS, HIPS, PC etc.)	Plastic recovery	U.S., China & Hong Kong
Insulated Wire	Removed from CEP by hand-dismantling	Metal recovery	U.S., China & South Korea
Aluminum	Removed from CEP by hand-dismantling	Metal recovery	U.S., Taiwan & South Korea

TOTAL RECLAIM, 2200 6th Ave S., Seattle, WA 98134		Craig Lorch	(206)343-7443
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Removed from CEP and screen and metal gun removed	Glass to glass, all materials are reused in new CRT	Mexico
Circuit Boards	Removed from CEP by hand dismantling or automated shred/sort process	Precious metals recovery	Belgium or Sweden
Batteries	Hand removed from CEP, hand sorted by type.	Metal recovery	U.S or Canada
Mercury devices	Hand removed from CEP, managed as universal waste	Mercury recovery	U.S.
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by hand dismantling or automated shred/sort process	Metal recovery	U.S.
Plastics	Removed from CEP by hand dismantling or automated shred/sort process	Plastics recovery	U.S.
Insulated Wire	Removed from CEP by hand dismantling or automated shred/sort process	Metal recovery	U.S.
Aluminum	Removed from CEP by hand dismantling or automated shred/sort process	Metal recovery	U.S.
Wood Waste	Removed from CEP by hand dismantling	Wood Recovery	U.S.

IMS Recycling

Facility Name	Street address	City	State	Zip Code	Country
					USA
See note, below.					USA
					USA
					USA
					USA
					USA
					USA
					USA
					USA
					USA
					Mexico
					USA

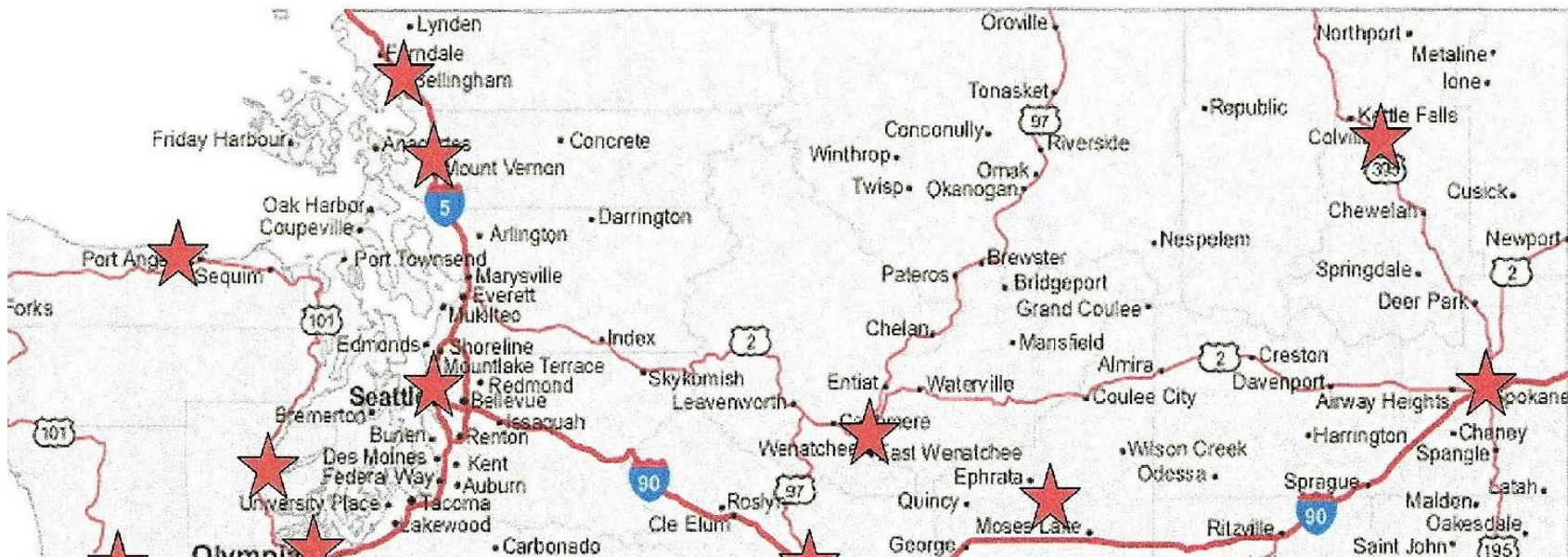
Total Reclaim

Facility Name	Street address	City	State	Zip Code	Country
					USA
See note, below.					USA
					USA
					USA
					USA
					USA
					USA
					USA
					Mexico
					USA
					Belgium
					Sweden

Note: Proprietary information submitted to the Dept. of Ecology under WAC 173-900 is exempt from public disclosure as per RCW 42.56.270. Ecology received requests from E-Cycle Washington program processors to exempt their downstream vendors from public disclosure. These requests were approved based on the determination that releasing this information could adversely affect the processors' competitive position. As a result, Ecology redacted specific information about downstream vendors other than location by country.

WMMFA Educational and Promotional Efforts 2009 - summary

- 1 Contacted Superintendent of Public Instruction to provide educational outreach to State Public Schools concerning E-Cycle WA plan. Memorandum 027-09M issued to all state public schools resulted in more awareness and therefore volume of School generated CEP's.
- 2 Sponsored a series of advertisements, including graphics, (Spanish) in the magazine LA REVISTA, and TECHNO HISPANO a digital bilingual technology magazine.
- 3 Released verbal and written information concerning the Ecycle WA plan and the WMMFA through a series of press releases through print and electronic media in King, Spokane, Thurston, Okanogan, Yakima, Whatcom, Clark, Walla Walla, Franklin, Benton, Chelan, Snohomish, Kitsap, Pierce, and Grays Harbor community newspapers and electronic media outlets. NPR and WSJ interviews provided and published.
- 4 Funded design, manufacture and distribution of brochures and indoor / outdoor posters. Provided to all collectors or other interested parties. Approximately 26,000 brochures and over 500 posters were distributed to collectors and stakeholders free of any charge in 2009.
- 5 The WMMFA maintains a website and toll free phone number that gives information about the WMMFA and the E-cycle WA plan in sufficient detail to all covered entities, potential service providers and other stakeholders.
- 6 Executive Director has collaborated with manufacturers, retailers, local governments, collection sites, the public and media at large through formal and informal meetings and workgroups throughout 2009.
- 7 The Authority funded some of the artwork and provided input for the design of E-cycle Washington print media.
- 8 The Executive Director attended many governmental, association and non-profit organization's meetings and seminars to provide information to members of these groups as to the electronic recycling program and the WMMFA.
- 9 The WMMFA sponsored over 2400 - 30 second radio spots directing the public to the e-cycle wa web site to find information on collection sites and other details of the recycling plan. The map below identifies some of the market areas that received the broadcasts over several months time span. Although broadcasts were state wide - emphasis was on rural areas.



Preliminary 2010 Return Shares for Electronics Manufacturers

The E-Cycle Washington program conducted 35 sampling events in 2009 gathering data on over 11,500 TVs, monitors and computers. That data was used to determine Return Share by brand as summarized, below.

<u>Brand Name</u>	<u>Weight (lbs)</u>	Identified Brands Return Share (%)	Proportional Orphan Share (%)	Total Return Share (%)
DELL	44097	9.56	1.42	10.98
Sony	32114	6.96	1.04	8.00
RCA	29359	6.37	0.95	7.31
Zenith	18316	3.97	0.59	4.56
Gateway	18174	3.94	0.59	4.53
Compaq	16080	3.49	0.52	4.00
Apple	16029	3.48	0.52	3.99
Panasonic	15949	3.46	0.51	3.97
ViewSonic	14764	3.20	0.48	3.68
Magnavox	14085	3.05	0.45	3.51
Hewlett Packard	13036	2.83	0.42	3.25
Toshiba	11682	2.53	0.38	2.91
Mitsubishi	11406	2.47	0.37	2.84
NEC	10776	2.34	0.35	2.68
Philips	9893	2.15	0.32	2.46
JVC	8954	1.94	0.29	2.23
SYLVANIA	8287	1.80	0.27	2.06
Hitachi	8105	1.76	0.26	2.02
Sharp	7851	1.70	0.25	1.96
Samsung	6900	1.50	0.22	1.72
GE	6223	1.35	0.20	1.55
IBM	5904	1.28	0.19	1.47
eMachines	5475	1.19	0.18	1.36
SANYO	4675	1.01	0.15	1.16
Quasar	4613	1.00	0.15	1.15
Emerson and G Clef	4390	0.95	0.14	1.09
Sears	3262	0.71	0.11	0.81
CTL	3017	0.65	0.10	0.75
JC Penney	2753	0.60	0.09	0.69
Envision	2218	0.48	0.07	0.55
Philips Magnavox	2128	0.46	0.07	0.53
DAEWOO	1878	0.41	0.06	0.47
Symphonic	1877	0.41	0.06	0.47
AOC	1613	0.35	0.05	0.40
GoldStar	1583	0.34	0.05	0.39
Optiquest	1441	0.31	0.05	0.36
MGA/Mitsubishi	1401	0.30	0.05	0.35
LXI	1391	0.30	0.04	0.35

Acer	1346	0.29	0.04	0.34
Curtis Mathes	1155	0.25	0.04	0.29
Pioneer	992	0.21	0.03	0.25
Sylvania	909	0.20	0.03	0.23
Sansui	894	0.19	0.03	0.22
Philco	836	0.18	0.03	0.21
APEX	806	0.17	0.03	0.20
Sun Microsystems	772	0.17	0.02	0.19
Sceptre	767	0.17	0.02	0.19
ProScan	747	0.16	0.02	0.19
Nokia	733	0.16	0.02	0.18
Panascope	715	0.15	0.02	0.18
Orion	713	0.15	0.02	0.18
FISHER	701	0.15	0.02	0.17
LACIE	659	0.14	0.02	0.16
US MICRO	581	0.13	0.02	0.14
Tatung	513	0.11	0.02	0.13
Digital Equipment	470	0.10	0.02	0.12
ASUS	450	0.10	0.01	0.11
Samtron	449	0.10	0.01	0.11
AOpen	401	0.09	0.01	0.10
Insignia	400	0.09	0.01	0.10
Hyundai	398	0.09	0.01	0.10
Sampo	380	0.08	0.01	0.09
HDNW	363	0.08	0.01	0.09
Teknika	360	0.08	0.01	0.09
LG	347	0.08	0.01	0.09
NobleView	325	0.07	0.01	0.08
Funai	323	0.07	0.01	0.08
Alden	318	0.07	0.01	0.08
Nobilis	314	0.07	0.01	0.08
ADVENT	312	0.07	0.01	0.08
Microlynx	285	0.06	0.01	0.07
Memorex	285	0.06	0.01	0.07
MiTAC	266	0.06	0.01	0.07
CyberVision	258	0.06	0.01	0.06
Daytek	251	0.05	0.01	0.06
Kmart	247	0.05	0.01	0.06
RadioShack	238	0.05	0.01	0.06
Tandy	235	0.05	0.01	0.06
Tektronix	234	0.05	0.01	0.06
Squareview	221	0.05	0.01	0.05
ToteVision	214	0.05	0.01	0.05
KTV	211	0.05	0.01	0.05
Spectra	204	0.04	0.01	0.05
NCR	198	0.04	0.01	0.05

Wyse	191	0.04	0.01	0.05
Motorola	185	0.04	0.01	0.05
Brother	170	0.04	0.01	0.04
EPSON	164	0.04	0.01	0.04
Durabrand	163	0.04	0.01	0.04
SYSTEMAX	160	0.03	0.01	0.04
MSI	159	0.03	0.01	0.04
ViewMate	157	0.03	0.01	0.04
Craig	156	0.03	0.01	0.04
Microsoft Surface	147	0.03	0.005	0.04
NANAO	146	0.03	0.005	0.04
SGI	144	0.03	0.005	0.04
Hansol	134	0.03	0.004	0.03
US Logic	132	0.03	0.004	0.03
SR	129	0.03	0.004	0.03
Unisoft	125	0.03	0.004	0.03
Daytron	116	0.03	0.004	0.03
Link	115	0.02	0.004	0.03
Elo TouchSystems	115	0.02	0.004	0.03
Westinghouse	107	0.02	0.003	0.03
White Westinghouse	104	0.02	0.003	0.03
Planar	103	0.02	0.003	0.03
Ultra	102	0.02	0.003	0.03
Compucare	102	0.02	0.003	0.03
3D Corporation	99	0.02	0.003	0.02
Aiwa	99	0.02	0.003	0.02
TruTech	94	0.02	0.003	0.02
Superscan	92	0.02	0.003	0.02
BenQ	90	0.02	0.003	0.02
Ilo	88	0.02	0.003	0.02
Infotel	88	0.02	0.003	0.02
Audiovox	85	0.02	0.003	0.02
T Systems	20	0.00	0.001	0.00
APM	81	0.02	0.003	0.02
Midwest Micro	77	0.02	0.002	0.02
3M Dynapro	76	0.02	0.002	0.02
Elite	76	0.02	0.002	0.02
Accu Scan	74	0.02	0.002	0.02
Ambassador	69	0.02	0.002	0.02
Flexvision	66	0.01	0.002	0.02
Eager Beaver Computers	64	0.01	0.002	0.02
DIGITAL RESEARCH TECHNOLOGY	64	0.01	0.002	0.02
Intergraph	61	0.01	0.002	0.02
Premio	60	0.01	0.002	0.02
Maxent	60	0.01	0.002	0.01
MGC	54	0.01	0.002	0.01

Disney	54	0.01	0.002	0.01
Hisense	53	0.01	0.002	0.01
Amdek	52	0.01	0.002	0.01
AMBRA	52	0.01	0.002	0.01
EIZO	51	0.01	0.002	0.01
Vizio	51	0.01	0.002	0.01
Element	50	0.01	0.002	0.01
Realistic	50	0.01	0.002	0.01
Vison	49	0.01	0.002	0.01
Computer Source	49	0.01	0.002	0.01
AT&T 3B Series	49	0.01	0.002	0.01
Portland	48	0.01	0.002	0.01
MainPC	48	0.01	0.002	0.01
Honeywell	47	0.01	0.001	0.01
Fujitsu-Siemens	46	0.01	0.001	0.01
Infotech	45	0.01	0.001	0.01
Optima	42	0.01	0.001	0.01
Abacus	42	0.01	0.001	0.01
Texas Micro	42	0.01	0.001	0.01
DEC Performance	41	0.01	0.001	0.01
MTV	40	0.01	0.001	0.01
Pixel Pro	37	0.01	0.001	0.01
Sager	36	0.01	0.001	0.01
Dex Computers and	35	0.01	0.001	0.01
Technics	35	0.01	0.001	0.01
Zone Tech USA	33	0.01	0.001	0.01
NU	33	0.01	0.001	0.01
IBM PS/ValuePoint	33	0.01	0.001	0.01
Tekbright	32	0.01	0.001	0.01
Sperry	32	0.01	0.001	0.01
Sampo Professional	30	0.01	0.001	0.01
Bear	30	0.01	0.001	0.01
Humax	27	0.01	0.001	0.01
Aptiva	26	0.01	0.001	0.01
Zenith Data Systems	25	0.01	0.001	0.01
Fry's Electronics	25	0.01	0.001	0.01
Puget	25	0.01	0.001	0.01
Haier	24	0.01	0.001	0.01
Unisys	23	0.01	0.001	0.01
ABS	23	0.005	0.001	0.01
Hypersonic	22	0.005	0.001	0.01
Hammerhead	22	0.005	0.001	0.01
Winbook	22	0.005	0.001	0.01
Citek	22	0.005	0.001	0.01
ACS	21	0.005	0.001	0.01
Q2 Designs	21	0.005	0.001	0.01
LOREX	21	0.004	0.001	0.01

NetVista	20	0.004	0.001	0.01
Optoma	20	0.004	0.001	0.01
Computer Sonics	18	0.004	0.001	0.00
Runco	18	0.004	0.001	0.00
Tandem	18	0.004	0.001	0.00
OCCS	18	0.004	0.001	0.00
Rainbow	17	0.004	0.001	0.00
Penncrest	16	0.003	0.001	0.00
Coby	16	0.003	0.001	0.00
Scott (HH)	15	0.003	0.000	0.00
Polycom	15	0.003	0.000	0.00
KEC	14	0.003	0.000	0.00
ZT Cisnet	13	0.003	0.000	0.00
Starlogic	13	0.003	0.000	0.00
VAR	12	0.003	0.000	0.00
jWIN	12	0.002	0.000	0.00
Mirus	11	0.002	0.000	0.00
Polaroid	9	0.002	0.000	0.00
MicroTouch	8	0.002	0.000	0.00
Shuttle	7	0.002	0.000	0.00
GPX	4	0.001	0.000	0.00
LIVING SOLUTIONS	3	0.001	0.000	0.00
Total	401526	87.06	12.94	100.00

Preliminary 2010 Orphan Brand Returns Washington State Electronic Products Recycling Program

Below is a list of brands that appeared in the Return Share sampling conducted in 2009 for the E-Cycle Washington program that were determined by the Department of Ecology (Ecology) to be "orphans." An orphan is a covered electronic product that lacks a manufacturer's brand, or for which the manufacturer is no longer in business and has no successor in interest, or is a brand for which Ecology cannot identify an owner.

The 59,697 lbs of orphan products accounted for 12.94% of all covered electronic products sampled through the E-Cycle Washington program in 2009. The responsibility for recycling orphan products is distributed proportionally among all identified manufacturers.

Brand Name	Weight (lbs)
UNMARKED COMPUTER	10375
KDS	4436
CTX	3450
MAG	3210
MICRON	3171
Packard Bell	3004
Princeton	2429
Proview	1982

UNIDENTIFIABLE CEP	1738
Montgomery Ward	1509
RIC	1008
Admiral	977
AST	966
Tiny	784
Futura	783
ADI	603
Reflex	553
MAXTech	542
MGA	462
iiyama	441
Touch	434
EMC Multisystem	426
Radius	394
Megavision	392
Smile	387
Akai	346
Komodo	307
Future Power	307
Hewitt Rand	293
Gem	290
Broksonic	287
Digiview	274
Relisys	259
UNKNOWN BRAND	395
Microscan	244
Hi Com	235
Trinity Technology	224
CompUSA PC	223
Leading Edge	221
Icon	215
Commodore	212
V Tech	211
NOW	187
Shamrock	179
Top Victory Electronics	174
Arcus	171
Canon	167
Amptron	166
GLI	158
CONTEC	145
Impression	144
Power II	141

TMK	136
LITE-ON	136
Magitronic	135
MAGView	132
Protron	128
Signature 2000	125
CrystalView	125
Loewe	124
Mini Micro	121
A1 Best Computer, Inc	120
MAG Innovision	114
Progen	113
Proton	110
Quantex	110
PC Tech	109
TSI	109
Merit	108
Logisys	106
Hatch	106
Addonics	106
Norcent	103
ADP	103
MPC	103
Likom Technology	100
Sysdyne	98
Northgate	97
TeleVideo	96
Electrograph	95
ACN	92
Aamazing	91
Logik	91
Computata	89
Computer One	87
GVC	86
ATI	78
Techmedia	77
Teco	74
Leading Technology	74
REALsync	74
InnerTech Systems	72
Amtel	72
DTK	72
Rhapsody	72
INVIVO)MDE	71

Darius	71
Setchell-Carlson	66
Standard Technologies	64
View and View	64
Olevia	62
I-O	62
Supre Macy	59
Citizen	58
Everex eXplora	57
Distar	56
Alaron	56
CyberIQ	56
DTP	56
Aquaview	55
Compudyne	55
KFC	53
Bentley	52
Royal	50
Pixie	50
Dyna Tone	49
Electrohome	49
KMC	49
Everview	48
AMark	48
Telos	48
Grid	48
Argon	47
KLH	47
Fountain	46
Dynacom Systems	46
MTech	45
Pionex	45
Spur	45
Up Time	44
Lucky Star International	44
KONKA	44
Kamp	43
Clearmax	40
Linytron	39
Super Power	37
TTX	36
ADDS	36
NCD	35
KTC	35

Niko	35
Athena 7SP	34
Delta	34
Delphi	34
iFriend	34
Inteva	34
Jean	34
Espirit	33
Imtec	33
Tangent	33
V2 Premier	33
iomega ditto max	33
IMA	32
JOOYONTECH	32
Advanced Micro Tech	31
Super View	31
Taxan	31
Office Pro Systems	31
Ketiv	31
Cariole	30
Cybermax	30
x2gen	30
Comet	30
Smith Corona	30
TPW	29
Teletype	29
Digital Dental Products	29
CHEM	29
Boss Systems	29
DFI	28
Supercom	28
Pacom	27
Actebis	27
HCT	27
Decaview	27
EPS Technologies	27
PC Craft	26
CONIC	26
Easy Data	26
VIP	26
Astar	26
Amstrad	26
PC Fitness	26
WEN	25

BSR	25
ITT	25
Ancer	25
EYE Q	25
Concorde	25
Orchestra Trumpet	25
Socos	25
Diamond Home	24
Kenitec	24
Amiga	24
CCi	24
Micro Q	24
PC Supply	24
MIS Computer Systems	24
Magitronic	24
AT+ Computers	23
TAG RAM	23
Tystar	23
SUPERmac	23
Atari	23
Aurora Vision	23
Headstart	23
BCI	22
Corona	21
STC	21
Channel Partner Solutions	21
Computersmart	21
Algin	20
Ultrak	20
Reynolds+Reynolds	20
Amerigo	20
Virtual Office Systems	20
Casper	20
Zenon	19
CT	19
KODAK	19
Alton	18
Data General	18
Arche	18
Executone	17
Initial	16
BMC	16
WANG	16
Sakata	15

Javelin	15
PAR	15
Midland	15
Goldbeam	14
Computer Lab International	14
BTC	14
Sysonic	14
Compal	14
Triview	13
Pelco	13
PC Open	10
Emprex	9
Gold Seal	6
Suntone	6
Viewmagic	4
Starlite	3
TOTAL	59697

Total weight of unwanted electronic products, electronic components, and electronics scrap that have been exported from Washington state, from Processors used by the WMMFA, to countries that are not members of the Organization for Economic Development or the European Union = 0 (as reported by the processors to the WMMFA)

List of CEP Manufacturers participating in the Standard Plan

NOTE: Highlighted manufacturers are not currently participating due to non-payment of recent invoices

- 1 3D Corporation 2103 Grant St Bellingham, WA 98225 Attention: John Jaworski/CFO
- 2 3M Touch Systems 501 Griffin Brook Park Drive Methuen, MA 01844 Attention: Christine Swartz
- 3 4th Dimension Computer 3929 Pacific Ave SE Lacey, WA 98503 Attention: Daniel Phillips
- 4 A-1 Best Computer 8051 Lake City Way NE Seattle, WA 98115 Attention: Eric Nording
- 5 Abacus Office Machines 2928 N Nevada Spokane, WA 99207 Attention: Dean Meakin
- 6 ACC Tech 4021 100th St SW Suite B Lakewood, WA 98499 Attention:Aaron Tripp
- 7 Acer America Corp 333 W. San Carlos St. Suite 1500 San Jose, CA 95110 Attention: Elaine Tam
- 8 Ag Neovo Technology Corp. 2362 Qume Dr. Suite A San Jose, CA 95131 Attention: David Meng
- 9 Alpine Computer Industries PO Box 141933 Spokane, WA 99214-1933 Attention: James Le
- 10 AMA Computer Services 1706 127th Place SE Everett, WA 98208 Attention: Alan Ocheltree
- 11 America Action, Inc. 100 Exchange Place Pomona, CA 91768 Attention: Chris Ho
- 12 iBuypower/American Future Tech Corp 11581 Federal Drive ElMonte, CA 91731 Attention: Richard Fregoso
- 13 Angel Computer Systems, Inc. PO Box: 98005 Lakewood, WA 98496 Attention: Don Brabham
- 14 Aopen America, Inc. 380 Fairview Way Milpitas, CA 95035 Attention: Michael Hwu
- 15 Apex Digital, Inc. 301 Brea Canyon Rd Walnut, CA 91789 Attention: Shannon Lee
- 16 Apple Computer 1 Infinite Loop Cupertino, CA 95014 Attention: Art Fichter
- 17 Artec Digital 39901 Eureka Dr. Newark, CA 94560 Attention: Vicki Chin
- 18 Associated Computer Specialists 1820 Northshore Place Snohomish, WA 98290 Attention: Francis D. Garcia
- 19 Asus Computer International 800 Corporate Way Fremont, CA 94539 Attention: Yan Godwin
- 20 AT&T Corporation 10 Tara Boulevard Nashua, NH 03062-2800 Attention: Wayne Alba
- 21 Atico International USA, Inc. 501 South Andrews Avenue Fort Lauderdale, FL 33301 Attention: Joe Moskal
- 22 Audiovox Corp. c/o Levy Stopol & Camelo 1425 Reckson Plaza Uniondale, NY 11556 Attention: Paul A Juergensen
- 23 Aydin Displays 1 Riga Lane Birdshore, PA 19540 Attention: Keith Sergas
- 24 Bear Computers 13400 NE 20th St. Suite 25 Bellevue, WA 98005 Attention: Eddie Houng
- 25 BenQ America Corp 13112 Santa Ana Ave.A-1 Fontana, CA 92337 Attention:Kevin Yang
- 26 Best Buy 7601 Penn Ave S Bldg B-6 Richfield, MN 55423 Attention: Tim Dunn
- 27 Brother International Corporation 100 Somerset, Corporate Blvd Bridgewater, NJ 0880 Attention: Henry J. J Sacco
- 28 Casio, Inc. 570 Mt Pleasant Ave Dover, NJ 07801 Attention: Robert A Shapiro
- 29 Charisma Productions 512 W Main St Kelso, WA 98626 Attention: Jayson Rogen
- 30 Circuit City Stores, Inc. PO Box 42304 Richmond, VA 23242 Attention: Scott Ash
- 31 Coby Electronics Corp 5665 Rust St Maspeth, NY 11378 Attention:Daniel Song
- 32 CommWise, Inc. PO Box 1080 Castle Rock, WA 98611 Attention: Scott Bean
- 33 CompUSA, Inc. 14240 Midway Rd #150 Dallas, TX 75244 Attention: Brian Zollinger
- 34 Computer 5, Inc. 341 Grant Rd East Wenatchee, WA 98802 Attention: Sonny Patterson
- 35 Computer Cow 895 S. Broadway Othello, WA 99344 Attention: Hilario Garza
- 36 Computer Field Technology 1518 172nd St NE #B Marysville, WA 98271 Attention: Karen Reagan
- 37 Computer Nut Hut PO Box 4362 Omak, WA 98841 Attention: George Petersen
- 38 Computer Smiths, Inc. 6409 NW Bondale Ln Silverdale, WA 98383 Attention: Joe Smith
- 39 Computer Source of NW WA, Inc. PO Box 1063 Burlington, WA 98233 Attention: Pamela Santangelo
- 40 Computer Technology Link 3460 NW Industrial St. Portland, OR 97210 Attention: Erik F Stromquist
- 41 Computer Works 2105 S. 1st. St. Yakima, WA 98903 Attention: Don Davidson
- 42 Computers & Applications 10619 NE 8th St Bellevue, WA 98004 Attention: Gwon Chang
- 43 Cosmo Communication Corporation 280 Machlin Court City of Industry, CA 91789 Attention: Jennifer Schroeder

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- 44 Craig Electronics International LTD 1160 NW 163rd Dr. Miami, FL 33169 Attention: Vivian Hernandez
- 45 Creative Computer Sales 14611 Meridian East Puyallup, WA 98375 Attention: Paula McCarty
- 46 Curtis International, LTD 41776 Via Balderama Temecula, CA 92592 Attention: Mark Verdon
- 47 Custom Computer Sales & Svc 154 Port Angeles Plaza Port Angeles, WA 98362 Attention: Phillip J Laporte
- 48 Daewoo Electronics America, Inc. 300-3E State Route 17 South Lodi, NJ 07644-2117 Attention: Sonjae
- 49 Daewoo International America Corp Gi Lym 65 Challenger Rd., 2nd Fl. Ridgefield Park, NJ 07660
- 50 Darell's Computers & Peripherals 209 Pine St. Kelso, WA 98626 Attention: Darell Phillips
- 51 Dat-a-Way Computer Solutions PO Box 4343 Spanaway, WA 98387 Attention: Sheila Harshaw
- 52 Dell Computer Corp One Dell Way RR2E-2 Round Rock, TX 78682 Attention: Rankin Kristyn
- 53 Dex Computers & Things, LLC 8012 S. Tacoma Way#7 Lakewood, WA 98499 Attention: Dex P Bassett
- 54 Digital Systems & Solutions Corporation 1500 E College Wy Suite B Mt Vernon, WA 98273 Attention: Sheridan Poynter
- 55 Disney Consumer Products, 500 South Buena Vista St Burbank, CA 91521-0280 Attention: Max Calne
- 56 Double Sight Displays 18009 Sky Park Circle Suite K Irvine, CA 92164 Attention: Della Maggiore
- 57 DPI, Inc. 900 N. 23rd Street St Louis, MO 63106 Attention: Russ Osborne
- 58 DRS Tactical Systems, Inc. 1110 W. Hibiscus Blvd. West Melbourne, FL 32901 Attention: Sean Jones
- 59 E & S International Enterprises, Inc. 7801 Hayvenhurst Ave Van Nuys, CA 91406 Attention: Bert Jay
- 60 Eager Beaver Computers 13817 E Sprague Ave #1 Suite 1 Spokane Valley, WA 99216 Attention: Eugene N Bergstrom
- 61 Eizo Nanao Technologies, Inc. 5710 Warland Drive Cypress, CA 90630 Attention: Tom Waletzki
- 62 Electrograph Systems, Inc. 50 Marcus Blvd. Hauppauge, NY 11788 Attention: Jeanne Raffiani
- 63 Electrolux 20445 Emerald Parkway, S.W. Suite 250 Cleveland, OH 44135-0920 Attention: John A. Heer
- 64 Element Electronics Corp. 701 Xenia Ave S. Suite 450 Minneapolis, MN 55416 Attention: Jack Goetzke
- 65 Eman Computer Care and Data Recovery 815 Ave D Snohomish, WA 98290 Attention: Emmanuel Popa
- 66 Emerson Radio Corp 85 Oxford Dr. Moonachie, NJ 07074 Attention: Frank Guerriero
- 67 Envision Peripherals, Inc. 47490 Seabridge Dr Fremont, CA 94538 Attention: Gino Villaflor
- 68 Epson America, Inc. 3840 Kilroy Airport Way Long Beach, CA 90806-2452 Attention: Ron Mateas
- 69 EQD Corp. 26045 Acero Mission Viejo, CA 92691 Attention: Steve Woo
- 70 Equus Computer Systems, Inc. 5801 Clearwater Drive Minnetonka, MN 55343 Attention: Alex Orosz
- 71 Eviant, Inc. 1661 Fairplex Dr. LaVerne, CA 91750 Attention: Allan Li
- 72 Falcon Northwest 2015 Commerce Dr. Medford, OR 97504 Attention: Kelt Reeves
- 73 FAVI Entertainment 36330 Woodward Ave. Bloomfield Hills, MI 48304 Attention: Dan Lambert
- 74 First International Computer 1045 Mission Ct Fremont, CA 94539 Attention: Paul Kim
- 75 Foxconn Technolgy Co LTD., 100 S 38th St., Harrisburg, PA 17111
- 76 Fourstar Group USA, Inc. 63 South Street Suite 190 Hopkinton, MA 07148 Attention: Bruce Peloquin
- 77 Fry's Electronics, Inc. 600 E. Brokaw Road San Jose, CA 95112 Attention: Lisa Souza-McIntire
- 78 Fujitsu Computer Systems Corporation 1250 E Arques Ave M/S 125 Sunnyvale, CA 94085 Attention: Graziella Lowe
- 79 Funai Corporation, Inc. 19900 Van Ness Ave Torrance, CA 90501 Attention: Yoichi Kanazawa
- 80 Gamma Tech 48303 Fremont Blvd Fremont, CA 94538 Attention: Jerry Shih
- 81 GE Trading and Licensing 105 Carnegie Center-3rd Floor Princeton, NJ 08540 Attention: Jennifer Pierce
- 82 General Dynamics Itronix Corp PO Box 850 1500 Prodelin Dr. Newton, NC 28658 Attention: Pamela Eidson
- 83 Grays Harbor Computer Service 516 Myrtle St Aberdeen, WA 98520 Attention: William Pitts
- 84 GVISION USA, Inc. 20532 Crescent Bay Drive Suite 104 Lake Forest, CA 92630 Attention: Steve Fan
- 85 Haier America 1356 Broadway New York, NY 10018 Attention: Vanessa Davis
- 86 Hannspree North America, Inc. 14450 Myford Rd Suite 100 Irvine, CA 92606-1001 Attention: Michael Peng

List of CEP Manufacturers participating in the Standard Plan

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- 87 Hard Drive NW 14315 NE 20th St. Bellevue, WA 98007 Attention: Talal El-Husseini
- 88 Hewlett Packard 8000 Foothills Blvd., MS/5580 Roseville, CA 95747 Attention: Jeff Kuypers
- 89 Hillcom 10198 Cummings Dr Sedro Woolley, WA 98284 Attention: Harry Hill
- 90 Hisense USA Corp 105 Satellite Blvd. Suite A Suwanee, GA 30024 Attention: Steven Cohen
- 91 Hitachi America, LTD. Attention: Legal Dept. 900 Hitachi Way Chula Vista, CA 91914
- 92 Honeywell ACS Division 1985 Douglas Dr. N. Golden Valley, MN 55442 Attention: Michael Szablak
- 93 Humax USA, Inc. 17501 Von Karman Ave Irvine, CA 92614 Attention: JunSuk Park
- 94 Hyundai IT America Corp. 2051 Junction Ave., Suite 112 San Jose, CA 95131 Attention: James Park
- 95 I/O Magic Corporation 4 Marconi Irvine, CA 92618 Attention: Thomas Gruber
- 96 IBM Pete Berends 21383 Unbridled Drive Parker, CO 80138
- 97 Imation Corporation 3265 Meridian Pkwy Suite 114 Weston, FL 33331 Attention: Elizabeth Ferguson
- 98 Incommand, Inc. 702 N 1st Ave Suite #C Yakima, WA 98902 Attention: Diane L Craig
- 99 Infotech Systems, Inc. 1414 S 324th St Suite #B112 Federal Way, WA 98003 Attention: Issac Choi
- 100 Intergraph Corporation 170 Graphics Dr. Madison, AL 35758 Attention: Todd Guthrie
- 101 J.C. Penney Corporation, Inc. PO Box 45057 Mail Stop 7835 Salt Lake City, Utah 84145-0057 Attention: Luann Perryman
- 102 JVC America Corporation 1700 Valley Rd Wayne, NJ 07470 Attention: Edward Nevins
- 103 jWIN Electronics Corp 2 Harbor Park Dr. Port Washington, NY 11050
- 104 KTV USA, Inc. 1 Madison St East Rutherford, NJ 07073 Attention: C.R. Cho
- 105 LaCie USA 22985 NW Evergreen Parkway Hillsboro, OR 97124 Attention: Melissa Cahill
- 106 Last Stop Computers 3101 6th Ave Tacoma, WA 98406 Attention: Brian Herbert
- 107 Lenovo 1009 Think Place, Building 2/5J5 Morrisville, NC 27560 Attention: Mary Jacques
- 108 LG Electronics USA, Inc. 1000 Sylvan Ave Englewood Cliffs, NJ 07632 Attention: Tim McGrady
- 109 Lincoln Computers PO Box 405 Clinton, WA 98236 Attention: Jason Kalk
- 110 Lookout Electronics 1152 Commerce Ave Longview, WA 98632 Attention: Nancy Nash
- 111 Lorex Technology, Inc. 300 Alden Road Markham, ON, (CN) L3R 4C1 CANADA Attention: Gilad D. Epstein
- 112 Lux Entertainment, LLC 629 East 19th Street Paterson, NJ 07514 Attention: Andrew F Vaccaro
- 113 Macy's, Inc. 7 West 7th St. Cincinnati, OH 45202 Attention: Melissa Hoffman
- 114 Magaero Systems 2704E Gabelein Rd Clinton, WA 98236 Attention: Mike Gallion
- 115 Main Business Systems 914 164th St SE #270 Mill Creek, WA 98012 Attention: Peter J Main
- 116 Marantz America, Inc. 100 Corporate Drive Mahwah, NJ 07430-2041 Attention: David Meisels
- 117 Mattel, Inc./Emerson Radio 9 Entin Rd. Parsippany, NJ 07054 Attention: Judy Robinson
- 118 Medion AG 493 Laurel Avenue Highland Park, IL 60035 Attention: Marc Winter
- 119 MGA Entertainment 16300 Roscoe Blvd Suite 150 Van Nuys, CA 91406 Attention: Kerri Brode
- 120 Michley Electronics, Inc. 530 Showers Drive Suite 7-204 Mountain View, CA 94040 Attention: Steve Ispas
- 121 Micro Center & IPSG & Micro Electronics 4119 Leap Rd San Jose, CA 95131 Attention: Daniel Tsao
- 122 Microlynx 6820 Kimball Dr #A5 Gig Harbor, WA 98335 Attention: Roy Parkison
- 123 Microsel, Inc. 5254 West 74th Street Edina, MN 55439 Attention: Chris Schmidt
- 124 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 Attention: Kimberly Braun
- 125 Miracle Business, Inc. 1344 S Parkside Place Ontario, CA 91761 Attention: Hong Zhou
- 126 Mitac USA, Inc. 47988 Fremont Blvd. Fremont, CA 94538 Attention: Robert Chen
- 127 Mitsubishi Digital Electronics America 9351 Jeronimo Rd Irvine, CA 92618-1904 Attention: Missy Hayes
- 128 Modern Office Equipment 2805 N Market St Spokane, WA 99207 Attention: Gary Marks
- 129 More Power Computers PO Box 64 Rainier, OR 97048 Attention: Michael Leiker

List of CEP Manufacturers participating in the Standard Plan

NOTE: Highlighted manufacturers are not currently participating due to non-payment of recent invoices

- 130 Motion Computing 8601 RR 2222 Building II Austin, TX 78730 Attention: Ross Lorimer
- 131 Motorola, Inc. 1303 E Algonquin Rd IL01 3rd Floor Schaumburg, IL 60196 Attention: Matthew C Norton Pending
- 132 MSI Computer 901 Canada Ct City of Industry, CA 91748 Attention: Connie Chang
- 133 Naxa Electronics, Inc. 2914 Leonis Blvd Vernon, CA 90058 Attention: Michael Schakibkhou
- 134 Ncc National Computer 4615 196th St SW Suite 130 Lynnwood, WA 98036-5590 Attention: Robert Nguyen
- 135 NCR Corporation 1700 S Patterson Blvd WHQ3 Dayton, OH 45479 Attention: Jonathan Jacobs
- 136 NEC Display Solutions of America, Inc. 500 Park Blvd. Suite#1100 Itasca, IL 60143 Attention: Linda Middleton
- 137 New Image Digital, LLC 2700 Peterson P1 Unit 11-C Costa Mesa, CA 92626 Attention: Alyssa Huber
- 138 Nexgen Mediatech USA, Inc. 16712 E. Johnson Drive City of Industry, CA 91745 Attention: Roy Yeh
- 139 Nextpoint Technologies, LLC 1059 Andover Park E Tukwila, WA 98188 Attention: Nasir Ali
- 140 Nickelodeon/MTV Networks PO Box 2458 Secaucus, NJ 07094 Attention: Jeff Chapp
- 141 No Nonsense Computers 17305 IH 35 North, Suite 113 Schertz, TX 78154 Attention: Steve Lisee
- 142 Nokia 6021 Connection Dr. Irving, TX 75039 Attention: David Conrad
- 143 NU Technology, Inc. 4044 Clipper Ct Fremont, CA 94538 Attention: Wayne Chen Pending
- 144 NuVision US, Inc. 7901 E. Pierce St. Suite A Scottsdale, AZ 85257 Attention: Michelle Dawson
- 145 OCZ Technology Group, Inc. 860 E Arques Ave Sunnyvale, CA 94085 Attention: Ryan Petersen
- 146 Office Depot MC:C477 6600 N. Military Trail Boca Raton, FL 33496-2434 Attention: Todd Benni
- 147 On Line Support, Inc. PO Box 490 Vancouver, WA 98666 Attention: Eric Olmsted Pending
- 148 Optoma Technology, Inc. 715 Sycamore Drive Milpitas, CA 95035 Attention: Elton Li
- 149 Orion America, Inc. PO Box 1129 Hwy 41 / Orion Place Princeton, IN 47670 Attention: Akihisa Oki
- 150 Osram Sylvania PO Box 4356 MC-IMA055 Portland, OR 98208-4356 Attention: Susan Wright
- 151 Panasonic Corporation of North America One Panasonic Way 3G-4 Secaucus, NJ 07094 Attention: David A Thompson
- 152 Pc Gamers Tech, Inc. 17719 Pacific Ave Suite #458 Spanaway, WA 98387 Attention: Sandra L Carr
- 153 PC Recycle 13107 NE 20th Suite #2 Bellevue, WA 98005 Attention: Steven Molstad
- 154 PC System Services, Inc. 14315 NE 20th ST Bellevue, WA 98007 Attention: Talal A El-Husseini
- 155 Pegasus Technology, Inc. 12806 Schabarum Ave Suite #F Irwindale, CA 91706 Attention: Livia Lu
- 156 Perfection PC 4610 N. Nevada St Spokane, WA 99207 Attention: Beau Williams
- 157 P & F USA, Inc. 3015 Windward Plaza Suite #100 Alphretta, GA 30005 Attention: Gregg Chason
- 158 Pioneer Electronics (USA), Inc. PO Box 1760 Long Beach, CA 90801-1760 Attention: James Ha
- 159 Planar Systems, Inc. 1195 NW Compton Dr Beaverton, OR 97006 Attention: Gail Zuro
- 160 Plateau Computer 4534 Klahanie Dr. SE Issaquah, WA 98029 Attention: Craig Walker
- 161 PLR IP Holdings, LLC 4350 Baker Rd. Suite 180 Minnetonka, MN 55343 Attention: Michael Phelps
- 162 Pogo Linux, Inc. 8675 154th Ave. NE Redmond, WA 98052
- 164 Polycorn, Inc. 100 Minuteman Road Andover, MA 01810 Attention: Nicholas G Karafotias
- 165 Port Townsend Computers, Inc. 1200 W Sims Way Suite B Port Townsend, WA 98368 Attention: Le Hornbeck
- 166 Premio, Inc. 918 Radecki Court City of Industry, CA 91748 Attention: Ken Szeto
- 167 ProMedia Technologies, Inc. 4581 Brickell St., Ste A Ontario, CA 91761 Attention: Te-Hou Lee
- 168 Prostar Computers, Inc. 837 S. Lawson Street City of Industry, CA 91748 Attention: Eddie Yuan
- 169 Puget Sound Systems, Inc. 2707 W. Valley Hwy. N. Auburn, WA 98001-1614 Attention: Jonathan C Bach
- 170 Pyle Audio 1600 63rd St. Brooklyn, NY 11279 Attention: Abraham Brach
- 171 Pyramid Distributing 18038 2nd Ave NE Shoreline, WA 98155 Attention: Bill Vogler
- 172 Quality Computers & Svc 2020 Westview Drive Port Angeles, WA 98363 Attention: John Kilzer
- 173 RadioShack Corp 300 RadioShack Circle MS WF4.136 Fort Worth, TX 76102 Attention: Pat Loehr

List of CEP Manufacturers participating in the Standard Plan

NOTE: Highlighted manufacturers are not currently participating due to non-payment of recent invoices

- 174 Re-Pc Recycled Computers 1565 6th Ave S Seattle, WA 98134 Attention: Mark R Dabek
- 175 Regent USA 1208 John Reed City of Industry, CA 91745 Attention: Rick McDaniel
- 176 Richman Poorman Computers 607 SE Everett Mall Way #D Everett, WA 98208 Attention: Alan Kemp
- 177 Ritzville Computer & Internet 107 W Main Ave Ritzville, WA 99169 Attention: Brent Larsen
- 178 Sager Midern Computer, Inc. 18005 Cortney Court City of Industry, CA 91748 Attention: Shu Y Yang
- 179 Samsung Electronics Co 18600 S Broadwick St Rancho Dominguez, CA 90220 Attention: Michael Moss
- 180 SANYO Manufacturing Corp (SMC) 3333 Sanyo Rd Forrest City, AR 72335 Attention: Steven Bernard
- 181 Sceptre, Inc. 16800 E Gale Ave City of Industry, CA 91745 Attention: Cathy Chou
- 182 Sears Roebuck & Co. 3333 Beverly Rd B5-362A Hoffman Estates, IL 60179 Attention: Michael B. Olsen
- 183 Sharp Electronics Corporation One Sharp Plaza Mahwah, NJ 07495 Attention: Frank Marella
- 184 Shuttle Computer Group 17068 Evergreen Place City of Industry, CA 91745 Attention: Armando Juarez
- 185 Silicon Graphics Inc, SGI 1140 E. Arques Ave Sunnyvale, CA 94085 Attention:Lori Stephens
- 186 Silo Digital 7050 Owensmouth Ave. Suite 211 Canoga Park, CA 91303
- 187 Skyworth Electronics, Inc. 1312 John Reed Court City of Industry, CA 91745 Attention: Cindy Diao
- 188 Softline Computers & Service 2258 SE Lund Port Orchard, WA 98366 Attention: Maryann Acker Pending
- 189 Sony Electronics, Inc. 16450 W Bernardo Dr San Diego, CA 92127-1898 Attention: Mark Small
- 190 Sourcing Network Sales c/o Pandigital 6300 Village Parkway Suite 100 Dublin, CA 94568
- 191 Spectra Merchandising Int'l, Inc. 4230 N Normandy Ave Chicago, IL 60634 Attention: Ron Shulda
- 192 Staples 500 Staples Drive Framingham, MA 01702 Attention: Robert McAdams
- 193 Summit Computers 25805 104th Ave SE Kent, WA 98030 Attention: Nadeem Ayaz
- 194 Sun Microsystems 500 Eldorado Blvd. UBRM01-266 Broomfield, CO 80021 Attention: Diane Niemiec
- 195 Sunbrite TV LLC 5069 Maureen Lane, Unit A Moorpark, CA 93021 Attention: Jeffrey Kaiser
- 196 Supersonic, Inc. 6555 Bandini BLVD Commerce, CA 90040 Attention: Sam Shommetoub
- 197 SVA Group USA, Inc. 1316 John Reed Ct. City Industry, CA 91745-2406 Attention: Vishal Naik
- 198 Syndicate Technology 872 S. 37th St Tacoma, WA 98418 Attention: Clark Snyder Pending
- 199 Synet Electronics 201 Gates Rd. Unit C Little Ferry, NJ 07643 Attention: Harry Rhim
- 200 Systemax Manufacturing, Inc. 11 Harbor Park Dr Port Washington, NY 11050 Attention: Donna Gehrlich
- 201 T Systems 121 Vine Street #1001 Seattle, WA 98121 Attention: David A Madia
- 202 Target Corporation 50 S. 10th St., Suite 400 Mail Stop: TP3-0765 Minneapolis, MN 55403
- 203 Tatung Science & Technology, Inc. 46708 Lakeview Blvd Fremont, CA 94538 Attention: Lily Kong
- 204 Teamex Corp 725 Dell Rd. Carlstadt, NJ 07072 Attention: Randy Chung
- 205 Tektronix, Inc. Reference PO: 2031736 B19 REC-13725 SW Kari Braun Dr. Howard Vollum Park Beaverton, OR 97077
- 206 Thomson, Inc. 101 West 103rd Street Indianapolis, IN 46290 Attention: Thomas S. Sipher
- 207 TLC Computer Care 10224 Airport Way Snohomish, WA 98296 Attention: Eric Bonner
- 208 TLCO, Inc. 1624 W 8th St Port Angeles, WA 98363 Attention: George Guill
- 209 Toshiba America Information Systems, Inc 1321 Murfreesboro Rd Suite 400 Nashville, TN 37217 Attention: Matt Gobel
- 210 ToteVision 1319 Dexter Ave N Suite #020 Seattle, WA 98109 Attention: Bill Taraday
- 211 Trident Growth Fund, LP 8935 Gaylord Dr. Suite 189 Houston, TX 77024 Attention: Larry St. Martin CM
- 212 TriGem USA 1231 E Dyer Rd Suite 150 Santa Ana, CA 92705 Attention:Kim H.S.
- 213 Tyco Electronics 301 Constitution Dr Menlo Park, CA 94025 Attention: Masood Abrishamcar
- 214 Unisys Direct 25725 Jeronimo Rd. Mission Viejo, CA 92691 Attention: Jim Ervin
- 215 US Micro PC, Inc. 13600 NE 20th Street Bellevue, WA 98005 Attention: Todd Marvin
- 216 VAR Corporation 1212 W 11th Ave Bldg B Spokane, WA 99204 Attention: David Johnson

List of CEP Manufacturers participating in the Standard Plan

NOTE: Highlighted manufacturers are not currently participating due to non-payment of recent invoices

- 217 Velocity Micro, Inc. 7510 Whitepine Road Richmond, VA 23237 Attention: Kate C Ashley
- 218 Venturer Electronics, Inc. 8392 Six Forks Road Suite 104 Raleigh, NC 27615 Attention: Julie Billups
- 219 ViewSonic Corporation 381 Brea Canyon Road Walnut, CA 91789 Attention: Frances Kao
- 220 Vizio, Inc. 39 Telsa Irvine, CA 92618 Attention: Daniel Chung
- 221 Wacom Technology 1311 SE Cadinal Ct Vancouver, WA 98683 Attention: Mike Walsh
- 222 Wal-Mart Stores, Inc. 702 SW 8th St Bentonville, AR 72716-0505 Attention: Stacey C Ward
- 223 Westinghouse Digital Electronics, LLC 12150 Mora Dr Santa Fe Springs, CA 90670 Attention: Arthur Wong
- 224 Worldwide V7 Private Label 1600 E. St. Andrew Place Santa Ana, CA 92705 Attention: Robert Forster
- 225 Wyse Technology 3471 N First St San Jose, CA 95134-1801 Attention: Alden D Neilson
- 226 Xerox Corporation 800 Phillips Road Building 0205-99F Webster, NY 14580 Attention: Melissa Bessey
- 227 Yakima Networking 1640 East Washington Ave Union Gap, WA-98903 Attention: John Storlie
- 228 Yamaha Corp of America 6600 Orangethorpe Ave Buena Park, CA 90620 Attention: James Choi
- 229 ZT Group International, Inc. 350 Meadowlands Pkwy Secaucus, NJ 07094 Attention: Frank Chang

Documentation of work done with direct processors used by the Standard Plan to promote and encourage the design of electronic products that are less toxic and contain components that are more recyclable.

The steps outlined within the documentation below describe the efforts of the WMMFA thus far. Based on discussions with the staff and directors of both **NCER** and the **Green Electronics Council**, as well as several processors, the WMMFA has chosen, to this point, to pursue collaboration with the NCER and the Green Electronics council to attempt to get grant funding for a CTL (Close the Loop) Registry that would potentially create a one-stop clearinghouse that would allow manufacturers to satisfy their obligations and recyclers to obtain data on components, contents and de-manufacturing hints for the products they receive. By focusing on national or global efforts in the Dfr and Dfe arena the Authority believes it will be more effective in realizing results for products sold or distributed in Washington State as none of the manufacturers that participate in the Washington plan manufacture solely for Washington residents.

1 The Authority requested input from the 4 largest processors, by volume, participating in the Standard Plan by issuance of this survey: (ERI, EWC, IMS, Total Reclaim)



June 4, 2009

RE: Design for Recycling project

The WMMFA is interested in collaborating with, and coordinating communications among, contracted processors and member manufacturers of the Authority's recycling plan. The goal of our DfR process will be to increase the potential for higher volumes of reuse materials and more efficient handling and disposition of end of life materials gleaned from the recycling process. It is anticipated that cost savings to the processors and manufacturers can be realized with implementation of jointly agreed upon design changes in electronics products.

Please complete the survey questions below and return the completed form to the WMMFA at your earliest convenience. Your responses to the survey and participation in this project are voluntary. Suggestions gleaned from survey responses will be shared anonymously with the WMMFA DfR team formed based on participation acknowledgement. Specific responses by processor or manufacturer are confidential.

- 1. What are the top 3 barriers to improved processing production efficiency in processing CEP's? (TV, Monitor, PC, Laptop) Include constraints identified by downstream vendors, if known. (use extra page if necessary)
 - 1. _____
 - 2. _____
 - 3. _____

- 2. Which Top 3 "materials of concern" currently used within CEP's, if revised or eliminated would have the most positive impact on your direct or downstream costs?
 - 1. _____
 - 2. _____
 - 3. _____

- 3. The manufacturers are interested in lowering their cost of processing of CEP's. From your standpoint what would need to be done to allow this to happen? Please include any components of the current logistics/handling operations or CEP assembly details - as well as other processing operations that would impact your costs - positively.
 - _____
 - _____
 - _____

- 4. Would your organization be interested in participating in quarterly conference calls with representatives of other processors and leading manufacturers to discuss practical design revisions and other joint efforts that could result in better DfR, the outcome of which would be to reduce the amount of environmentally sensitive parts within CEPs and reduced cost for manufacturers and processors?
 - Yes

other processors and leading manufacturers to discuss practical design revisions and other joint efforts that could result in better DfR, the outcome of which would be to reduce the amount of environmentally sensitive parts within CEPs and reduced cost for manufacturers and processors?

- Yes
- No
- Not Sure – Please contact me to discuss.

Please **return completed survey** to John Friedrich at FAX number: 360-225-6225 or, e-mail address: jfriedrick@wmmfa.net. Thank You!



WMMFA Executive Director

2 Consolidated survey results summarized:

Design For Recycling

The initial survey put to the Washington state processors that comply with the preferred standard resulted in these observations in order of perceived impact and importance as it pertains to reducing the overall cost to manufacturers for processing, and for the recycling or diversion of a higher percentage of materials of concern.

1. Flat Panels will become a larger percentage of material to be recycled in the future due to the current proliferation of LCD and plasma TV's and monitors being sold now. Processors need an outlet for CRT Glass and LCD screens in order to reduce processing costs to manufacturers.
2. Eliminate multi laminated materials and allow for easy separation of plastics from metals from lamps from glass so that the materials separation cost does not exceed the compensation from recycling the material. Assist in providing buy back opportunities for recovered plastics and other reusable items.
3. New technologies in manufacture of CEP's should allow for more automated dismantling using snap out fittings that may be accommodated by automated processes for dismantling. Identify components containing hazardous materials for easier and more efficient and complete removal and recycling.
4. Removing or reducing lead from glass and circuit boards would reduce downstream processing costs. Reduce or eliminate beryllium, cadmium, mercury and lithium (batteries)

These results were shared with all manufacturers participating in the Standard Plan via the text below in the WMMFA's 4th quarter 2009 Newsletter that included financial and operational information as well.

PROCESSING COSTS - DFR —2010

Each of the processors used by the Standard Plan must comply with the “preferred processing standards” as defined in the “Environmentally Sound Management and Performance Standards for Direct Processors.” A survey sent to the Washington state processors used by the Authority revealed these recommendations in order of perceived impact and importance pertaining to reducing the overall cost to manufacturers for processing, and for the recycling or diversion of a higher percentage of materials of concern.

1. Flat Panels will become a larger percentage of material to be recycled in the future due to the current proliferation of LCD and plasma TV's and LCD monitors being sold now. Processors need an outlet for CRT Glass and LCD screens in order to reduce processing costs to manufacturers.
2. Eliminate multi laminated materials and allow for easy separation of plastics from metals from lamps from glass so that the materials separation cost does not exceed the compensation from recycling the material. Assist in providing buy back opportunities for recovered plastics and other reusable items.
3. New technologies in manufacture of CEP's should allow for more automated dismantling using snap out fittings that may be accommodated by automated processes for dismantling. Identify components containing hazardous materials for easier and more efficient and complete removal and recycling.
4. Removing or reducing lead from glass and circuit boards would reduce downstream processing costs. Reduce or eliminate beryllium, cadmium, mercury and lithium (batteries).

These recommendations, as provided by the participating Washington State Standard Plan processors, are not a new revelation to manufacturers. They are shared with all participating manufacturers as collective information that summarizes some of the obstacles to lowering our (WMMFA) collective processing costs.

Over the course of 2009 e-mails and some phone inquiries were made to a few of the larger participating manufacturers. Based on some of their feedback, and some conversations with other stakeholders the WMMFA initiated communication with NCER:



September 30, 2009

Jason Linnell
 Executive Director
 National Center for Electronics Recycling
 115 Rosemar Road, Suite 1
 Parkersburg, WV 26104

Jason,

As the Executive Director of the WMMFA I am tasked with encouraging manufacturers participating in the Washington State plan (currently all manufacturers that sell products in Washington State) to design electronic products that are less toxic and more recyclable. Based on my efforts to date I am of the opinion that it would be more effective to attempt to coordinate participation of Washington State manufacturers and processors on a national level within existing pre-established infrastructure(s). Although possible to connect global manufacturers with local processors, WMMFA member manufacturers have commented on the expense, redundancy, and scalability problems presented with a focus, on their behalf, specific to products sold within Washington State - communicated separately with Washington state processors. As the patchwork of nationwide state recycling plans moves forward a web based registry with capability for feedback from which all processors could communicate back to the industry, or, to specific manufacturers would be the most effective and complete means of facilitating progress towards reaching Dfr and Dfe goals.

The Washington Electronic recycling plan is based on the producer responsibility model – funded entirely by manufacturers. Manufacturer’s human and financial resources are being stretched by overlapping requirements from many states. Consolidation of efforts in this area would benefit industry, environment, and manufacturers by offering higher quality participation and more rapid results than pursuit of these goals state by state. In order to benefit our members I have framed my communication efforts with stakeholders around the concept of reducing cost (manufacturers) and increasing efficiencies (processors). Factors that lead to lower cost for manufacturers will also lead to increased materials recycling rates, lower disassembly labor costs, and less materials of concern within electronic products for our region as Oregon and Washington are generally ahead of most other states in the US. Manufacturers are responding. In fact, a recent sampling by the WMMFA of electronic devices covered under the manufacturer funded plan in Washington state indicated a drop in average product weights of 3.4% for laptops, 6% for TV’s and 23% for PC-Towers in just one year. When asked to list and prioritize in order of highest impact on processor cost, a survey to in state processors initiated by the WMMFA processors responded: (responses consolidated and summarized)

1. Flat Panels will become a larger percentage of material to be recycled in the future due to the current proliferation of LCD and plasma TV’s and LCD monitors being sold now. Processors need an outlet for CRT Glass and LCD screens in order to reduce processing costs to manufacturers.
2. Eliminate multi laminated materials and allow for easy separation of plastics from metals from lamps from glass so that the materials separation cost does not exceed the compensation from recycling the material. Assist in providing buy back opportunities for recovered plastics and other reusable items.
3. New technologies in manufacture of CEP’s should allow for more automated dismantling using snap out fittings that may be accommodated by automated processes for dismantling. Identify components containing hazardous materials for easier and more efficient and complete removal and recycling.
4. Remove or reducing lead from glass and circuit boards to reduce our downstream processing costs. Reduce or eliminate beryllium, cadmium, mercury and lithium (batteries).

These responses are not a new revelation exclusive only to processors in Washington State. They are consistent with independent surveys conducted by non-governmental agencies, manufacturers, and environmental research organizations within our regional area and nationwide. As the membership of the WMMFA is primarily composed of and funded by manufacturers that also participate in national markets I would like to pursue joint efforts with the Green Electronics Counsel, NCER, and other groups interested in increasing recycling and reuse efforts. A web based registry with feedback capabilities from which processors could communicate back to the industry or, specific manufacturers is necessary in order to reach industry goals as described within Dfr and Dfe research.

Regards,



John Friedrich
Executive Director
Washington Materials Management & Financing Authority
P.O. Box 779
Woodland, WA 98674
Phone: (360) 225-6222
E-mail: jfriedrick@wmmfa.net

Based on feedback from some of the collectors in the WMMFA network (listed in section 2) it is estimated that approximately 8% to 12%, by weight, of the total CEP pounds collected for 2009 (38.5 million) is put into re-use as fully working components. The highest amount of re-use by weight is estimated to be televisions (10-20%) followed by computers (15-25%) followed by CRT monitors (2-8%). This is an estimate given by comparing non-scientific estimates of several of the non-profit (reuse- retail) collectors with no data gathered to support it.

This report was prepared per WAC 173-900-800 and submitted using the template provided by Ecology (converted to workbook)

The information within this report/workbook was compiled using sources available to the WMMFA including actual and estimated data from service providers to the WMMFA as outlined in the Standard Plan

Submitted electronically on February 26, 2010 to Miles.Kuntz@ecy.wa.gov

Authorized signor WMMFA
John Friedrich, Executive Director

A handwritten signature in black ink, reading "John Friedrich". The signature is written in a cursive style with a large initial "J" and a distinct "F".