

2024

Annual Report



E-CYCLE
washington

Submitted by:

Peter Thermos
Executive Director, Washington Materials
Management & Financing Authority
4900 9TH Avenue NW, Suite 206
Seattle, WA 98107

Submitted to:

Christine Haun
Environmental Specialist
Department of Ecology, State of Washington
300 Desmond Drive SE
Lacey, WA 98503

Submitted on:

March 1, 2025

Contents

[as required by RCW 70A.500.140]

Executive Summary	2
Collection of Covered Electronic Products (CEPs)	3
Large Quantities From School Districts, Small Governments & Small Business.	5
Non-profit Pounds by Collector	6
E-Cycle Washington Collection Services	
Collection Sites by County	7
Collection Events	14
Other Collection Services	19
Electronic Waste Processors	
Recycled Pounds by Processor	21
Processes and Methods	22
Subcontractors	26
Mass Balance of Materials	27
Summary of Processor Closure Plans	28
Materials of Concern Export Information	29
Processor Volume Allocation Factors	30
Design for Recycling	33
Education and Outreach	35
Reuse of Collected CEPs	37
Participating Manufacturers	38
Program Revenue and Expenses	41
Appendix A: Additional Information Available	
Pounds Processed Verification	42
Processor Environmental Audits	42

Executive Summary

E-Cycle Washington is a recycling program for unwanted computers, monitors and televisions in Washington State. Individuals, small businesses and others can drop off these electronics for free at E-Cycle Washington collection sites across the state. The Washington Materials Management and Financing Authority (WMMFA) is the administrative organization for E-Cycle Washington.

Electronic products contain toxic materials that should be kept out of the landfill, and valuable materials that can be recycled. The Washington State legislature enacted the Electronic Product Recycling Act (70A.500 RCW) to establish this convenient recycling program, and to protect human health and the environment. This law requires manufacturers of the products accepted by E-Cycle Washington to finance the collection, transportation, recycling and administration of the program.

HIGHLIGHTS

In 2024, E-Cycle Washington collected over 12.8 million pounds of electronics. E-Cycle Washington has collected more than 479 million pounds of electronics since it began operations on January 1, 2009.

Electronics can be dropped off for free at over 200 collection sites in Washington. This voluntary network of collection sites is comprised of retailers, non-profit organizations, local government facilities and others. Some cities also hold recycling collection events where electronics are accepted for recycling from the public for free.

SIGNATURE

This annual report was prepared as required by WAC 173-900-800 and submitted electronically to the Washington State Department of Ecology on March 1, 2025.



Peter Thermos
Executive Director, WMMFA



COVERED ELECTRONIC PRODUCTS (CEPS) COLLECTED

Including Orphan Products

CEP Pounds Collected by County			CEP Pounds Collected by County by CEP Type			
WA State County	Pounds Collected 2024 Excluding Reuse	Percent of Total Pounds by County	Computers	Monitors	Televisions	Total
Adams	12,915	0.1%	879	890	11,146	12,915
Asotin	44,227	0.3%	3,670	4,565	35,992	44,227
Benton	260,525	2.0%	38,181	33,638	188,706	260,525
Chelan	97,145	0.8%	10,998	10,844	75,303	97,145
Clallam	48,910	0.4%	1,316	1,404	46,190	48,910
Clark	989,840	7.7%	86,285	69,390	834,165	989,840
Columbia	-	0.0%	-	-	-	-
Cowlitz	215,952	1.7%	14,758	8,470	192,724	215,952
Douglas	21,043	0.2%	2,160	2,254	16,629	21,043
Ferry	12,799	0.1%	4,893	-	7,906	12,799
Franklin	103,382	0.8%	11,434	11,990	79,958	103,382
Garfield	10,394	0.1%	859	1,187	8,348	10,394
Grant	59,274	0.5%	7,184	6,869	45,221	59,274
Grays Harbor	108,939	0.8%	6,760	6,664	95,515	108,939
Island	210,055	1.6%	28,167	16,833	165,055	210,055
Jefferson	95,079	0.7%	9,882	9,429	75,768	95,079
King	4,755,356	37.0%	440,531	810,874	3,503,951	4,755,356
Kitsap	323,870	2.5%	18,635	31,662	273,573	323,870
Kittitas	21,842	0.2%	657	702	20,483	21,842
Klickitat	3,281	0.0%	1,194	-	2,087	3,281
Lewis	87,515	0.7%	11,135	3,962	72,418	87,515
Lincoln	16,143	0.1%	1,060	1,725	13,358	16,143
Mason	96,310	0.8%	2,501	8,804	85,005	96,310

COVERED ELECTRONIC PRODUCTS (CEPS) COLLECTED

Including Orphan Products

CEP Pounds Collected by County			CEP Pounds Collected by County by CEP Type			
WA State County	Pounds Collected 2024 Excluding Reuse	Percent of Total Pounds by County	Computers	Monitors	Televisions	Total
Okanogan	25,388	0.2%	6,525	688	18,175	25,388
Pacific	116,059	0.9%	10,140	10,093	95,826	116,059
Pend Oreille	21,908	0.2%	4,685	1,108	16,115	21,908
Pierce	1,024,503	8.0%	56,185	137,252	831,066	1,024,503
San Juan	38,665	0.3%	5,731	2,804	30,130	38,665
Skagit	194,665	1.5%	24,278	23,915	146,472	194,665
Skamania	14,758	0.1%	-	1,048	13,710	14,758
Snohomish	1,950,908	15.2%	182,957	240,397	1,527,554	1,950,908
Spokane	672,312	5.2%	86,856	106,630	478,826	672,312
Stevens	21,043	0.2%	2,160	2,254	16,629	21,043
Thurston	235,248	1.8%	3,290	11,229	220,729	235,248
Wahkiakum	922	0.0%	922	-	-	922
Walla Walla	125,834	1.0%	17,395	17,942	90,497	125,834
Whatcom	438,688	3.4%	46,729	68,658	323,301	438,688
Whitman	81,313	0.6%	9,373	14,011	57,929	81,313
Yakima	282,417	2.2%	20,533	24,431	237,453	282,417
Total	12,839,427	100.0%	1,180,898	1,704,616	9,953,913	12,839,427

LARGE QUANTITIES FROM SCHOOL DISTRICTS, SMALL GOVERNMENT AND SMALL BUSINESS

Total Pounds Received in Large Quantities from School Districts, Small Businesses and Small Governments.

TELEVISIONS	
School District TV	15,271
Small Business TV	12,276
Small Government TV	4,925
Total TELEVISIONS	32,472

MONITORS	
School District Monitors	26,718
Small Business Monitors	22,802
Small Government Monitors	4,202
Total MONITORS	53,722

COMPUTERS	
School District Computers	36,596
Small Business Computers	20,091
Small Government Computers	6,252
Total COMPUTERS	62,939

Total CEPs 149,133

NON-PROFIT POUNDS BY COLLECTOR

Total weight of Covered Electronic Products (CEPs) received from non-profit charitable organizations.

NON-PROFIT NAME	CEP POUNDS
All Shred	7,781.00
Anacortes Aktion Club	29,880.00
Deseret Industries - Puyallup	55,584.00
Deseret Industries - Shoreline	75,582.00
Goodwill Everett	1,261,180.00
Goodwill Pasco	271,056.00
Goodwill Seattle	1,178,798.00
Goodwill Spokane	464,117.00
Goodwill Tacoma	1,031,676.00
Goodwill Vancouver	343,961.00
Goodwill Wenatchee	72,189.00
Green Okanogan	13,061.00
Interconnection.org	192,201.00
Methow Recycles	5,964.00
Orcas Recycling Services	15,205.00
Salvation Army - Spokane Valley	15,100.00
Salvation Army - Yakima	10,455.00
St. Vincent De Paul - Monroe	28,377.00
St. Vincent De Paul - Seattle	54,253.00
St. Vincent De Paul - Tacoma	19,109.00
Stanwood-Camano Kiwanis	23,012.00
Sunnyside Christian Thrift Store	6,977.00
Union Gospel Mission - Yakima	16,613.00
TOTAL NON-PROFIT POUNDS	5,192,131.00

COLLECTION SITES

These collection sites accepted covered electronics for recycling at no charge in 2024.

Site Name	Address	City	State	County
Bruce Transfer Station	504 S Lucy Rd	Othello	WA	Adams
Gigamedics	213 W Main	Ritzville	WA	Adams
Ritzville Transfer Station	1803 E Danekas Rd	Ritzville	WA	Adams
Asotin County Regional Landfill	2901 6th Avenue	Clarkston	WA	Asotin
DTG Kennewick	119 E Albany Ave	Kennewick	WA	Benton
DTG Richland	1936 Saint St	Richland	WA	Benton
Goodwill Albertsons Donation Center	690 Gage Blvd.	Richland	WA	Benton
Goodwill Columbia Center Mall Donation Center	100 Columbia Center Blvd	Kennewick	WA	Benton
Goodwill Kave	2618 W Kennewick Ave	Kennewick	WA	Benton
Goodwill Kennewick Store	345 S Columbia Center Blvd	Kennewick	WA	Benton
Goodwill KK Donation Center	3250 Kennedy Rd	West Richland	WA	Benton
Goodwill Richland	201 Wellsian Way	Richland	WA	Benton
Stay Tan West	3680 W Van Giesen	West Richland	WA	Benton
Goodwill Wenatchee Store	830 S. Mission St	Wenatchee	WA	Chelan
Pacific Power Batteries Wenatchee	742 S. Mission St.	Wenatchee	WA	Chelan
Goodwill Port Angeles Store	603 S Lincoln St	Port Angeles	WA	Clallam
Goodwill Sequim Store	680 W Washington St, Ste C	Sequim	WA	Clallam
Central Transfer and Recycling Center	11034 NE 117th Avenue	Vancouver	WA	Clark
Goodwill Battleground Store	101 NW 20th Ave	Battleground	WA	Clark
Goodwill Fishers Landing Store	1200 SE 162nd Pl.	Vancouver	WA	Clark
Goodwill Hazel Dell Store	1600 NE 78th St.	Vancouver	WA	Clark
Goodwill Orchards Store	14201 NE Fourth Plain Blvd	Vancouver	WA	Clark
Goodwill Salmon Creek Store	14300 NE 20th Ave.	Vancouver	WA	Clark
Goodwill Vancouver Outlet	9021 NE 117th Ave	Vancouver	WA	Clark
Goodwill Vancouver Store	6425 NE Fourth Plain	Vancouver	WA	Clark
Washougal Transfer Station	4020 S. Grant Street	Washougal	WA	Clark
West Vancouver Materials Recovery Center	6601 NW Old Lower River Road	Vancouver	WA	Clark
Columbia County Transfer Station	501 S Cottonwood	Dayton	WA	Columbia
Goodwill Longview Store	1030 15th Avenue	Longview	WA	Cowlitz
Waste Control Recycling	1150 3rd Ave	Longview	WA	Cowlitz
Goodwill East Wenatchee Store	620 Grant Road	East Wenatchee	WA	Douglas

COLLECTION SITES

Site Name	Address	City	State	County
Zacher Processing Facility	6114 Batterman Road	East Wenatchee	WA	Douglass
Torboy Transfer Station	105 Torboy Dump Road	Republic	WA	Ferry
Goodwill Pasco Outlet	307 W. Columbia St	Pasco	WA	Franklin
Goodwill Pasco Road 68	5115 N Road 68	Pasco	WA	Franklin
Goodwill Pasco Store	3521 W. Court Street	Pasco	WA	Franklin
CDSI Transfer & Recycle	9524 Rd 7 NE	Moses Lake	WA	Grant
Consolidated Disposal Service	2370 Basin St SW	Ephrata	WA	Grant
Goodwill Moses Lake Store	789 North Central Drive	Moses Lake	WA	Grant
Goodwill Aberdeen Store	1103 East Wishkah Blvd	Aberdeen	WA	Grays Harbor
Pay More Recycle and Salvage Inc. Aberdeen	1813 Westport Road	Aberdeen	WA	Grays Harbor
Waste Connections Inc dba Aberdeen Sanitation	29 Gavett Lane	Montesano	WA	Grays Harbor
Camano Island Transfer Station & Recycle Park	75 E. Camano Hill Road	Camano Island	WA	Island
DTG Coupeville	20018 SR 20	Coupeville	WA	Island
DTG Freeland	20014 SR 525	Freeland	WA	Island
North Whidbey Drop Box Station	3151 N. Oak Harbor Road	Oak Harbor	WA	Island
Goodwill Port Townsend Store	602 Howard St	Port Townsend	WA	Jefferson
Skookum Recycle	301 County Landfill Rd	Port Townsend	WA	Jefferson
Busby Junk Removal	11821 124th Ave NE	Kirkland	WA	King
Deseret Industries - Shoreline	17935 Aurora Ave N	Shoreline	WA	King
EcoLights Northwest	1915 South Corgiat Drive	Seattle	WA	King
Enumclaw Recyclers	2032 Garrett St., Ste. A	Enumclaw	WA	King
E-Recycle Mercer Island Site	7835 SE 30th Street	Mercer Island	WA	King
EWC Group, Inc	Kent 228 Building B, 22633 83rd Ave S	Kent	WA	King
Friendly Earth International Inc.	1560 1st Avenue South	Seattle	WA	King
Goodwill Auburn Store	1519 Auburn Way S	Auburn	WA	King
Goodwill Ballard Store	6400 8th Avenue NW	Seattle	WA	King
Goodwill Burien Store	1031 SW 128th Street	Burien	WA	King
Goodwill Capitol Hill	115 Belmont Avenue East	Seattle	WA	King
Goodwill Federal Way Store	32521 Pacific Hwy S	Federal Way	WA	King
Goodwill Juanita Store	9826 NE 132nd Street	Kirkland	WA	King
Goodwill Kent 360	315 Washington Ave S	Kent	WA	King
Goodwill Maple Valley Store	27077 Maple Valley/ Black Diamond Hwy	Maple Valley	WA	King

COLLECTION SITES

Site Name	Address	City	State	County
Goodwill North Transfer Station	1350 N. 34th Street	Seattle	WA	King
Goodwill Ravenna Donation Center	4637 Union Bay Place NE	Seattle	WA	King
Goodwill Redmond (Bellevue) Store	15301 NE 24th Street	Redmond	WA	King
Goodwill Renton Store	3210 NE Sunset Blvd	Renton	WA	King
Goodwill Sammamish Donation Center	228th NE and NE 8th (Behind Safeway)	Sammamish	WA	King
Goodwill Seattle Store	1400 South Lane St	Seattle	WA	King
Goodwill Shoreline Store	14500 15th Avenue NE	Shoreline	WA	King
Goodwill South Lake Union	411 Westlake Avenue North	Seattle	WA	King
Goodwill Totem Lake Donation Center	12221 120th Avenue NE	Kirkland	WA	King
Goodwill Tukwila Store	1174 Andover Park West	Tukwila	WA	King
Goodwill University District Store	4552 University Way NE	Seattle	WA	King
Goodwill Woodinville Donation Center	17524 131st Ave NE	Woodinville	WA	King
Goodwill Woodinville P&R Donation Center	17800 140th Avenue NE	Woodinville	WA	King
Green Label Recycling	927 Thomas Ave SW	Renton	WA	King
InterConnection Charitable Reuse & Recycling	1121 N 35th St.	Seattle	WA	King
Living Green Technology	1720 Pike Street NW, Suite 4	Auburn	WA	King
North Sound Hauling and Reload Facility	6211 234th St SE	Woodinville	WA	King
Pacific Power Batteries of Kirkland	13205 NE 124th St #A	Kirkland	WA	King
PC Recycle - Woodinville	5817 238th St SE	Woodinville	WA	King
RE-PC Seattle	1565 Sixth Avenue South	Seattle	WA	King
RE-PC Tukwila	600 Andover Park East	Tukwila	WA	King
St Vincent de Paul 1st Ave S	13445 1st Ave South	Burien	WA	King
St Vincent de Paul 4th Ave S	5950 4th Ave. S	Seattle	WA	King
St Vincent de Paul Bothell Way NE	7304 Bothell Way NE	Kenmore	WA	King
St Vincent de Paul Kent	310 Central Ave N	Kent	WA	King
St Vincent de Paul Renton	575 Rainier Ave N	Renton	WA	King
The Salvation Army Thrift Store, Tukwila	16705 Southcenter Pkwy	Tukwila	WA	King
Total Reclaim	7021 South 220th St	Kent	WA	King
UpTeKK	101 Lund Rd	Auburn	WA	King
Value Village - Redmond	7370 170th Ave NE	Redmond	WA	King
Value Village Burien	131 SW 157th St	Burien	WA	King
Value Village Issaquah	5530 East Lake Sammamish Parkway SE	Issaquah	WA	King

COLLECTION SITES

Site Name	Address	City	State	County
Value Village Kent	24034 104th Ave SE	Kent	WA	King
Value Village Tukwila	16700 Southcenter Parkway	Tukwila	WA	King
Value Village Woodinville	14160 NE Woodinville Duval Road	Woodinville	WA	King
Video Only - Bellevue	14339 NE 20th St	Bellevue	WA	King
Video Only - Federal Way	1643 S. 352nd St	Federal Way	WA	King
Video Only - TUKWILA	290 Andover Park E	Tuwila	WA	King
Bainbridge Island Recycling & Garbage Facility	7215 Vincent Rd	Bainbridge	WA	Kitsap
Bremerton St. Vincent dePaul	3449 Wheaton Way	Bremerton	WA	Kitsap
Ewaste Pro	9644 Bujacich Rd, Suite H	Gig Harbor	WA	Kitsap
Goodwill Bainbridge Island Donation Center	645 High School Road NE	Bainbridge	WA	Kitsap
Goodwill Bremerton Store	4209 Wheaton Way	Bremerton	WA	Kitsap
Goodwill Port Orchard Store	1720 SE Mile Hill Road	Port Orchard	WA	Kitsap
Goodwill Silverdale Store	10001 Mickelberry Rd NW	Silverdale	WA	Kitsap
Olympic View Transfer Station	9380 SW Barney White Rd	Bremerton	WA	Kitsap
Peninsula All Shred	5800 W. Werner Rd. STE B	Bremerton	WA	Kitsap
Goodwill Ellensburg Store	400 W. Washington Avenue	Ellensburg	WA	Kittitas
Republic Services Div 4178 - Goldendale Transfer	1205 W Broadway	Goldendale	WA	Klickitat
Goodwill Centralia Store	519 Harrison Ave	Centralia	WA	Lewis
Tiger Mountain Technologies	208 2nd St	Morton	WA	Lewis
Lincoln County Transfer Station	34735 SR 2 E.	Davenport	WA	Lincoln
Goodwill Shelton Store	301 Wallace Kneeland Plaza Blvd Ste. 210	Shelton	WA	Mason
Pay More Recycle and Salvage Inc Shelton	2278 East Brockdale Road	Shelton	WA	Mason
Delano Regional Transfer Station	22152 Alcan Dr NE	Grand Coulee	WA	Okanogan
Green Okanogan	3 Rodeo Rd.	Tonasket	WA	Okanogan
Methow Recycles	12 Twisp Airport Rd	Twisp	WA	Okanogan
Sunrise Main	330 Ferry St	Omak	WA	Okanogan
Pacific Solid Waste Disposal	4404 67th Pl.	Long Beach	WA	Pacific
Royal Heights Transfer Station	876 State Route 105	Raymond	WA	Pacific
Ione Transfer Station	1712 Sullivan Lake Road	Ione	WA	Pend Oreille
Newport Transfer Station	9494 Deer Valley Rd	Newport	WA	Pend Oreille
Usk Transfer Station	661 Jared	Usk	WA	Pend Oreille

COLLECTION SITES

Site Name	Address	City	State	County
Deseret Industries - Puyallup	716 South Hill Park Dr	Puyallup	WA	Pierce
Goodwill 38th Street Store	3121 South 38th St	Tacoma	WA	Pierce
Goodwill Bonney Lake Store	21153 Hwy 410 E	Bonney Lake	WA	Pierce
Goodwill Gig Harbor Store	5500 Olympic Dr NW, Bldg E	Gig Harbor	WA	Pierce
Goodwill Lakewood Store	6002 Mount Tacoma Dr SW	Lakewood	WA	Pierce
Goodwill North Tacoma Store	5401 6th Ave, Ste 600	Tacoma	WA	Pierce
Goodwill Puyallup Store	1200 4th Street NW	Puyallup	WA	Pierce
Goodwill South Hill Store	12915 Meridian Ave E	Puyallup	WA	Pierce
Goodwill South Tacoma Store	8025 S Hosmer St	Tacoma	WA	Pierce
Goodwill Spanaway Store	14918 Pacific Ave. S	Spanaway	WA	Pierce
Goodwill Tacoma Outlet Store	3120 S Pine St	Tacoma	WA	Pierce
Green PC	3627 S 54th St	Tacoma	WA	Pierce
Joint Base Lewis-McChord Recycle Center	Bldg 5290	Ft Lewis	WA	Pierce
McChord Recycling Center	Bldg 516 South Gate Road	McChord AFB	WA	Pierce
Oakland Affordable Computers	3901 Center St	Tacoma	WA	Pierce
Recycling Resources	5317 131st Street Ct E	Tacoma	WA	Pierce
St. Vincent de Paul S. 56th St.	4009 S. 56th st.	Tacoma	WA	Pierce
Value Village Puyallup	1124 River Road	Puyallup	WA	Pierce
Value Village University Place	6802 19th St W	University Place	WA	Pierce
Video Only - Tacoma	2218 S. 41ST St	Tacoma	WA	Pierce
Lopez Solid Waste Disposal District	2419 Fisherman Bay Road	Lopez Island	WA	San Juan
Orcas Recycling Services	3398 Orcas Road	Eastsound	WA	San Juan
San Juan Transfer Station	212 Sutton Road	Friday Harbor	WA	San Juan
Anacortes Aktion Club	1911 Commercial Ave	Anacortes	WA	Skagit
Goodwill Mount Vernon Store	242 East College Way	Mount Vernon	WA	Skagit
Goodwill Sedro-Wooley Donation Center	506 Crossroads Square	Sedro-Wooley	WA	Skagit
Pacific Power Batteries Mount Vernon	107 E Cedar St	Mount Vernon	WA	Skagit
Sedro-Woolley City Recycling Facility	1675 third Street	Sedro-Woolley	WA	Skagit
Mt. Pleasant Transfer Facility	1111 Mt. Pleasant Rd.	Washougal	WA	Skamania
Stevenson Transfer Facility	1332 Ryan Allen Rd.	Stevenson	WA	Skamania
Underwood Transfer Facility	1402 Little Buck Creek Rd.	Underwood	WA	Skamania
Ace Metal Company and Mukilteo Recycling Center	11110 Mukilteo Speedway #202	Mukilteo	WA	Snohomish
Appliance Recycling Outlet	10105 airport way	Snohomish	WA	Snohomish

COLLECTION SITES

Site Name	Address	City	State	County
Eman computer Care	119 West Main St	Monroe	WA	Snohomish
Eman Computer Care	402 Maple Avenue	Snohomish	WA	Snohomish
E-Waste, LLC - Mountlake Terrace	22313 70th Ave W Ste L4	Mountlake Terrace	WA	Snohomish
Goodwill Edmonds Store	10117 Edmonds Way	Edmonds	WA	Snohomish
Goodwill Everett Store	3002 Hoyt Avenue	Everett	WA	Snohomish
Goodwill Lynnwood Store	4027 198th Street Southwest	Lynnwood	WA	Snohomish
Goodwill Martha Lake Donation Center	710 164th Street	Lynnwood	WA	Snohomish
Goodwill Marysville Store	9315 State Avenue	Marysville	WA	Snohomish
Goodwill Monroe Store	14751 Chain Lake Road SE	Monroe	WA	Snohomish
Goodwill Snohomish Donation Center	823 Avenue D	Snohomish	WA	Snohomish
Goodwill South Everett Store	228 SW Everett Mall Way	Everett	WA	Snohomish
Kiwanis Recycle	27001 94th Dr NW, D1	Stanwood	WA	Snohomish
Pacific Power Batteries Everett	3729 Broadway	Everett	WA	Snohomish
Pacific Power Batteries Marysville	720 Cedar Ave	Marysville	WA	Snohomish
St. Vincent de Paul Everett	6424 Broadway	Everett	WA	Snohomish
St. Vincent de Paul Monroe	17150 West Main Street	Monroe	WA	Snohomish
The Junkluggers of North Puget Sound	3410 64th Ave NE	Marysville	WA	Snohomish
Truck On Call	6933 114th Ave NE	Lake Stevens	WA	Snohomish
Value Village Everett	6220 Evergreen Way	Everett	WA	Snohomish
Value Village Lynnwood	17216 Hwy 99	Lynnwood	WA	Snohomish
Value Village Marysville	1334 State Ave	Marysville	WA	Snohomish
Video Only - Lynnwood	19220 Alderwood Mall Parkway	Lynnwood	WA	Snohomish
DeVries Business Services	601 E. Pacific	Spokane	WA	Spokane
Goodwill Airway Heights Donor Service Center	9837 W. Flight Drive	Spokane	WA	Spokane
Goodwill Downtown Spokane Donation Center	130 E Third Avenue	Spokane	WA	Spokane
Goodwill North Nevada Store	9832 North Nevada Street	Spokane	WA	Spokane
Goodwill NW Blvd Store	1617 W. NW Blvd	Spokane	WA	Spokane
Goodwill South Hill Store Donor Service Center	2929 E. 27th Ave	Spokane	WA	Spokane
Goodwill Spokane Valley Store	13721 East Sprague	Spokane Valley	WA	Spokane
Inland ReTech	7203 E. Nora Ave., Ste. 100	Spokane Valley	WA	Spokane
Recycle Techs	6810 E. Appleway Blvd	Spokane Valley	WA	Spokane

COLLECTION SITES

Site Name	Address	City	State	County
The Salvation Army Thrift Store, Spokane	2020 N Division	Spokane	WA	Spokane
The Salvation Army Thrift Store, Spokane Valley	11211 E Sprague	Spokane Valley	WA	Spokane
Value Village Spokane E Sprague	12205 East Sprague Ave	Spokane Valley	WA	Spokane
Value Village Spokane W Boone	W 708 Boone	Spokane	WA	Spokane
Video Only - Spokane	7755 N. Division St.	Spokane	WA	Spokane
Goodwill Colville Store	168 North Main Street	Colville	WA	Stevens
Goodwill Olympia Outlet	4014 Martin Way E	Olympia	WA	Thurston
Goodwill Olympia Store	400 Cooper Point Rd SW	Olympia	WA	Thurston
Goodwill South Lacey Store	4800 Yelm Highway SE	Lacey	WA	Thurston
Goodwill Yelm Store	906 E Yelm Ave	Yelm	WA	Thurston
Regency Technologies	7827 Arab Dr SE	Olympia	WA	Thurston
State Surplus Tumwater Site	7511 New Market St SW	Tumwater	WA	Thurston
Value Village Lacey	604 Sleater-Kinney Rd SE	Lacey	WA	Thurston
CEP Recycle Walla Walla	871 West Rose	Walla Walla	WA	Walla Walla
Goodwill College Place	1017 NE C St	College Place	WA	Walla Walla
Walla Walla Recycling	827 North 12th Ave	Walla Walla	WA	Walla Walla
1PC LLC	3550 Meridian St, Ste 2	Bellingham	WA	Whatcom
Goodwill Bellingham Store	1115 East Sunset Drive	Bellingham	WA	Whatcom
Recycling & Disposal Services, Inc.	4916 LaBounty Dr.	Ferndale	WA	Whatcom
Value Village Bellingham	150 East Bellis Fair Parkway	Bellingham	WA	Whatcom
Goodwill Pullman Donor Service Center	815 S Grand Ave	Pullman	WA	Whitman
Pullman Disposal Shop	135 NW Harold Dr	Pullman	WA	Whitman
Goodwill Selah Store	503 S First St	Selah	WA	Yakima
Goodwill Sunnyside Store	2840 E. Lincoln Ave.	Sunnyside	WA	Yakima
Goodwill Union Gap Store	1907 1st Ave S	Union Gap	WA	Yakima
Goodwill Yakima Store	3710 Tieton Drive	Yakima	WA	Yakima
Sunnyside Christian Thrift Shop	305 North Ave	Sunnyside	WA	Yakima
The Salvation Army Thrift Store, Yakima	9 S 6th Ave	Yakima	WA	Yakima
Union Gospel Mission Yakima	1300 N 1st St	Yakima	WA	Yakima
Yakima Waste Systems - Granger	340 SR 223	Granger	WA	Yakima
Yakima Waste Systems - Yakima	2812 1/2 Terrace Heights Drive	Yakima	WA	Yakima

COLLECTION EVENTS

E-Cycle Washington Covered Electronic Products were collected from the public at these events.

EVENT HOLDER	DATE	LOCATION
BECU Everett	4/20/2024	BECU Everett 3900 Broadway Everett, WA 98201
BECU Everett	10/19/2024	BECU Everett Mall 1510 SE Everett Mall Way Everett, WA 98208
BECU Tukwila	4/20/2024	BECU Tukwila 12770 Gateway Dr S Tukwila, WA 98168
BECU Tukwila	10/19/2024	BECU Tukwila 12770 Gateway Dr S Tukwila, WA 98168
City of Algona	4/20/2024	Algona City Hall Parking Lot 200 Washington Blvd Algona, WA 98011
City of Arlington	6/8/2024	City of Arlington 18204 59th Ave NE Arlington, WA 98223
City of Burien	9/28/2024	BECU Tukwila 12770 Gateway Dr S Tukwila, WA 98168
City of Carnation	6/15/2024	Carnation Church of LDS 32751 NE 45th St. (Entwistle) Carnation, WA 98104
City of Covington	5/4/2024	Kentwood High School 25800 164th Ave SE Covington, WA 98042
City of Covington	9/7/2024	Kentwood High School 25800 164th Ave SE Covington, WA 98042

COLLECTION EVENTS

EVENT HOLDER	DATE	LOCATION
City of Des Moines	2/23/2024	Moines Marina 22307 Dock Avenue South Des Moines, WA 98198
City of Des Moines	7/12/2024	Moines Marina 22307 Dock Avenue South Des Moines, WA 98198
City of Des Moines	10/26/2024	Moines Marina 22307 Dock Avenue South Des Moines, WA 98198
City of Duvall	7/13/2024	Holy Innocents Church 26526 NE Cherry Valley Rd Duvall, WA 98019
City of Federal Way	6/1/2024	South King Tool Library 17000 S 340th Pl Federal Way, WA 98003
City of Federal Way	9/14/2024	South King Tool Library 17000 S 340th Pl Federal Way, WA 98003
City of Kenmore	5/11/2024	Epiphany Lutheran Church 16450 Juanita Dr NE Kenmore, WA 98028
City of Kenmore	11/9/2024	Northlake Lutheran Church 6620 NE 185th St Kenmore, WA 98028
City of Kent	4/19/2024	Kent Public Library 212 2nd Ave N Kent, WA 98032
City of Kent	5/10/2024	Kent United Methodist Church 11010 SE 248th St Kent, WA 98030
City of Kent	6/21/2024	Hogan Park 24400 Russell Road Kent, WA 98032

COLLECTION EVENTS

EVENT HOLDER	DATE	LOCATION
City of Kent	8/16/2024	Saint Columba Episcopal Church 26715 Military Rd S Kent, WA 98032
City of Kent	9/20/2024	Hogan Park 24400 Russell Road Kent, WA 98032
City of Lynden	9/14/2024	Lynden City Hall 300 4th St Lynden, WA 98264
City of Maple Valley	8/10/2024	Tahoma High School 23499 SE Tahoma Way Maple Valley, WA 98038
City of Mercer Island	10/26/2024	Mercer Island City Hall 9611 SE 36th St Mercer Island, WA 98040
City of New Castle	4/6/2024	Hazelwood Elementary 7100 116th Ave SE Newcastle, WA 98056
City of New Castle	9/28/2024	Hazelwood Elementary 7100 116th Ave SE Newcastle, WA 98056
City of Normandy Park	5/4/2024	WA State Criminal Justice Training Center 19010 1st Ave South Burien, WA 98148
City of North Bend	4/27/2024	Snoqualmie Middle School 9200 Railroad Ave SE Snoqualmie, WA 98065
City of Pacific	10/5/2024	Pacific City Hall Parking Lot 100 3rd Avenue SE Pacific, WA 98047
City of Sammamish	4/6/2024	Eastside Catholic High School 232 228th Ave SE, Sammamish, WA 9807

COLLECTION EVENTS

EVENT HOLDER	DATE	LOCATION
City of Sammamish	6/28/2024	Eastside Catholic High School 232 228th Ave SE, Sammamish, WA 9807
City of Sammamish	9/21/2024	Eastside Catholic High School 232 228th Ave SE, Sammamish, WA 9807
City of SeaTac	5/19/2024	City of SeaTac 2000 S 134th St SeaTac, WA 98168
City of Tukwila	5/18/2024	Tukwila Community Center 12424 42nd Ave S Tukwila, WA 98168
Edmonds College	3/2/2024	Edmonds College 20000 68th Ave. W Lynnwood, WA 98036
Garfield County	9/7/2024	Gould City-Mayview Road North of Highway 12 Pomeroy WA 99347
Lewis County Public Works	4/13/2024	Winlock Drop Box 1105 Winlock-Vader Road Winlock, WA 98596
Lewis County Public Works	4/22/2024	Lewis County (event site) 112 Norman Way Packwood, WA 98361
Lewis County Public Works	4/27/2024	South County Regional Park 212 Ray Rd Toledo, WA 98591
Lewis County Public Works	6/2/2024	Pe Ell Town Hall 111 Main St Pe Ell, WA 98572
Lewis County Public Works	9/28/2024	Lewis County Public Works 111 Pleasant Valley Rd Winlock, WA 98596

COLLECTION EVENTS

EVENT HOLDER	DATE	LOCATION
Lewis County Public Works	10/12/2024	East Lewis County Chamber of Commerce 8911 US HWY 12 Randle, WA
Lewis County Public Works	10/26/2024	South County Regional Park 212 Ray Rd Toledo, WA 98591
Lewis County Public Works	11/9/2024	Old Meskil Site Highway 6 Adna, WA 98532
Quincy Valley Lions Club	4/20/2024	Quincy Valley Lions Club 128 Division St W Quincy, WA 98848
Wahkiakum County	10/19/2024	Wahkiakum High School 500 S 3rd St Cathlamet, WA 98612



OTHER COLLECTION SERVICES

Collection services for covered electronic products are required in all Washington State counties and cities with a population greater than 10,000 (RCW 70A.500.090).

City, Town or County	City or Town Population*	CEP Collection Service (2024)
Airway Heights	12,070	Collection sites are located in Spokane approximately 10 miles away.
Arlington	22,980	Collection event completed.
Bothell	50,670	Collection sites and events are available in the adjacent city of Kenmore.
Burlington	10,410	A collection site is available approximately 6 miles away in Sedro-Woolley.
Camas	27,660	A collection site is available in the adjacent city of Washougal.
Cheney	13,150	Collection sites are available approximately 14 miles away in Spokane.
Covington	22,000	Collection events completed.
Des Moines	33,400	Collection events completed.
Dupont	10,180	Collection sites are available approximately 8 miles away in Lakewood.
Edgewood	14,080	Collection sites are available in the adjacent city of Puyallup.
Fife	11,320	Collection sites are available in the adjacent cities of Tacoma and Puyallup.
Garfield County	N/A	Collection event completed.
Grandview	11,680	Collection sites are available approximately 8 miles away in Sunnyside.
Kelso	12,780	A collection site is available in the adjacent city of Longview.
Kenmore	24,350	Collection events completed.
Lake Forest Park	13,680	Collection sites are available in the adjacent city of Shoreline.
Lake Stevens	41,540	Collection sites are available in the adjacent cities of Marysville and Snohomish.
Liberty Lake	13,870	Collection sites are available approximately 7 miles away in Spokane Valley.
Lynden	16,710	Collection event completed.

* State of Washington Office of Financial Management, 2024

OTHER COLLECTION SERVICES

Collection services for covered electronic products are required in all Washington State counties and cities with a population greater than 10,000 (RCW 70A.500.090).

City, Town or County	City or Town Population*	CEP Collection Service (2024)
Mill Creek	21,630	A collection sites are available approximately 3 miles away in Everett.
Newcastle	13,750	Collection events completed.
Poulsbo	13,010	A collection site is available approximately 8 miles away in Silverdale.
Ridgefield	15,790	Collection sites are available approximately 7 miles away in Vancouver and Battleground.
Sammamish	68,410	Collection events completed.
SeaTac	32,710	Collection event completed.
Snoqualmie	14,520	Collection event completed.
Sumner	11,040	Collection sites are available in the adjacent city of Puyallup.
Wahkiakum County	N/A	Collection event completed.

* State of Washington Office of Financial Management, 2024

Efforts to Add Collection Sites or Other Collection Services:

WMMFA attempted to find new potential collectors in several areas, including Lake Stevens, Lynden and Garfield County, by searching for new businesses and organizations that were similar to current collectors. These included thrift stores, electronics repair, retailers and others. With no suitable prospects identified, we contacted local government personnel in Lake City, Lynden and Garfield County by phone and email. This effort resulted in the establishment of recycling collection events in Lynden and Garfield County.

RECYCLED POUNDS BY PROCESSOR

Including Un-recycled Residuals and Reuse

	ACE METAL COMPANY	ERI	E-WASTE	EWC GROUP	METRO METALS TACOMA	METRO METALS VANCOUVER	TOTAL RECLAIM	URT	2024 TOTAL	
	POUNDS									%
CEP pounds recycled by each processor and on hand awaiting processing	2,671,388	1,594	2,106,772	2,019,053	2,897,612	1,933,025	17,983	422,081	12,069,508	94%
CEP pounds processor sent to reuse through refurbishment or resale	0	0	0	0	0	0	0	0	0	0%
Unrecycled residuals such as wood, unrecycled plastic and floor sweep	397,799	0	95,000	69,859	119,731	73,968	0	13,562	769,919	6%
TOTAL	3,069,187	1,594	2,201,772	2,088,912	3,017,343	2,006,993	17,983	435,643	12,839,427	100%



PROCESSOR PROCESSES AND METHODS

Processing methods and locations of all registered, participating electronic waste processors that were utilized in 2024.

ACE METAL COMPANY, 11110 MUKILTEO SPEEDWAY #202, MUKILTEO, WA 98275 (425) 493-6802			
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destnation Country
CRT Glass	Removed from CEP by hand dismantling. Panel and funnel separated and all metal removed	The glass is processed by shredding. Then they treat the leaded glass and make an end product of glass frit.	USA
Circuit Boards	Removed from CEP by hand dismantling	Precious metals recovery	Japan
Batteries	Hand removed from CEP, and sorted by type and packaged	Make new batteries	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	Malaysia, China
Insulated Wire	Hand removed from CEP and sorted	Metal Recovery	USA
Aluminum	Hand removed from CEP and sorted	Metal Recovery	USA
Wood	Hand removed from CEP and sorted	Wood Recovery	USA

E-WASTE LLC, 12424 BEVERLY PARK RD SUITE A-4, LYNNWOOD, WA 98036 (425) 239-4118			
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destnation Country
CRT Glass	It is removed from CRT TV's and monitors during disassembly process	Product manufacturing for production of ceramic tiles	USA
Circuit Boards	Removed from CEP by hand-dismantling	Precious metals recovery	Belgium, South Korea
Batteries	Removed manually and sorted by type.	Metal Recovery	USA, Canada
Mercury Containing Lamps	Hand-removed from CEP by hand dismantling, managed as universal waste.	Mercury Recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by hand-dismantling.	Metal Recovery	USA
Plastics	Removed from CEP by hand-dismantling.	Plastic Recovery	Malaysia
Insulated wire	Removed from CEP by hand-dismantling.	Metal Recovery	Belgium, Japan
Aluminum	Removed from CEP by hand-dismantling.	Metal Recovery	Belgium, Japan

PROCESSOR PROCESSES AND METHODS

**ERI, 3901 150TH AVE. COURT EAST, STE 200, SUMNER, WA 98390
(800) 374-3473**

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destnation Country
CRT Glass	Manually removed from CEP; separate panels, metals, and all other residuals	Glass to glass; all materials reused in new glass products or tiles	USA
Circuit Boards	Manually removed from CEP	Primary smelter for precious metal recovery	USA, Japan
Batteries	Manually removed from CEP and sorted by type	Metal recovery	USA
Mercury Devices	Manually removed from CEP and managed as Universal Waste	Mercury recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Manually removed from CEP	Metal recovery	USA
Plastics	Manually removed from CEP	Plastic recovery	Canada, Malaysia, USA
Insulated Wire	Manually removed from CEP	Metal recovery	Japan, USA
Aluminum	Manually removed from CEP	Metal recovery	USA

**EWC GROUP, 410 ANDOVER PARK E., TUKWILA, WA 98188
(206) 767-9950**

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destnation Country
CRT Glass	Manually removed from CEP; separate panels, metals, and all other residuals	Glass to glass; all materials reused in new glass products or tiles	USA
Circuit Boards	Manually removed from CEP	Primary smelter for precious metal recovery	USA, Japan
Batteries	Manually removed from CEP and sorted by type	Metal recovery	USA
Mercury Devices	Manually removed from CEP and managed as Universal Waste	Mercury recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Manually removed from CEP	Metal recovery	USA
Plastics	Manually removed from CEP	Plastic recovery	Canada, Malaysia, USA
Insulated Wire	Manually removed from CEP	Metal recovery	Japan, USA
Aluminum	Manually removed from CEP	Metal recovery	USA

PROCESSOR PROCESSES AND METHODS

METRO METALS, 2202 EAST RIVER ROAD, TACOMA, WA 98421
METRO METALS, 2401 ST. FRANCIS LANE, VANCOUVER, WA 98660
(253) 272-2364

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destination Country
CRT Glass	Hand dismantle and remove intact whole tube from CEP, package to prevent release	Smelter. Byproducts used as cement or tile additive	USA
Circuit Boards	Removal of batteries, sort, and/or shred	Primary smelter for recovery of metals	USA, Japan
Batteries	Hand sort by type and package for shipment	Metal recovery via recycling (lithium, nickel)	USA
Mercury Devices	Hand removed from CEP, package to prevent release	Mercury retort, elemental mercury recovery, crush to extract phosphor	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by shredding or hand dismantling	Metal Recovery	USA
Plastics	Shredded and included with the circuit boards	Primary smelter	USA
Insulated Wire	Removed by hand or shredding process	Metal Recovery	USA, Japan
Aluminum	Removed by shredding or by hand from the CEP	Metal Recovery	Japan, USA

TOTAL RECLAIM, 7021 SOUTH 220TH ST, KENT, WA 98032
(206) 343-7443

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destination Country
CRT Glass	Hand dismantle and remove intact whole tube from CEP, package to prevent release	Smelter. Byproducts used as cement or tile additive	USA
Circuit Boards	Removal of batteries, sort, and/or shred	Primary smelter for recovery of metals	USA, Japan
Batteries	Hand sort by type and package for shipment	Metal recovery via recycling (lithium, nickel)	USA
Mercury Devices	Hand removed from CEP, package to prevent release	Mercury retort, elemental mercury recovery, crush to extract phosphor	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by shredding or hand dismantling	Metal recovery	USA
Plastics	Shredded and included with the circuit boards	Primary smelter	USA
Insulated Wire	Removed by hand or shredding process	Metal Recovery	USA
Aluminum	Removed by shredding or by hand from the CEP	Metal recovery	USA

PROCESSOR PROCESSES AND METHODS

URT, LLC, 10151 SE JENNIFER ST., CLACKAMAS, OR 97015
(503) 722-2236

Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing- Destnation Country
CRT Glass	Glass is crushed and inserted into the tile making process	Tile and lead recovered	USA
Circuit Boards	Removed from CEP by automated separation and shred process	Smelted/refined for precious metal recovery	USA, Japan, Belgium, France, Korea
Batteries	Hand removed from CEP or received in as batteries separately. Hand sorted by type	Metal Recovery	USA
Mercury Devices	Received in as mercury devices separately. Hand sorted by type and shipped	Mercury recovery/retort	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Ferrous Metals	Removed from CEP by automated separation process	Metal recovery	USA
Plastics	Manual Sorting, Washing/Drying, Shredding/ Granulation, Blending, Compounding of plastic materials	Plastics recovery	USA, Malaysia
Insulated Wire	Manually removed	Metal Recovery	USA, Japan
Non-Ferrous Metals	Removed from CEP by automated separation and sorting process	Metal recovery	USA, Japan

DIRECT PROCESSOR SUBCONTRACTORS

Proprietary information regarding subcontractors is on file with the Department of Ecology but is not included on the public annual report for E-Cycle Washington.

PROCESSORS CEP MASS BALANCE REPORT

INBOUND: Total Pounds 2024	Computers	Laptops/ Tablets	Monitors	Televisions	E- Readers	Portable DVD Players	OTHER (non-covered)	TOTAL
Pounds collected and processed	1,040,024	163,128	1,695,833	9,919,675	-	-	20,767	12,839,427
OUTBOUND: CALENDAR YEAR 2024								
RECOVERED / RECYCLED / IN PROCESS								
CRT GLASS						1,703,272		
CIRCUIT BOARDS						1,199,453		
BATTERIES						14,918		
MERCURY LAMPS						3,742		
PLASTIC						1,753,326		
METALS						5,739,247		
WOOD						6,998		
CEP's in storage awaiting processing						713,159		
CEP's in transit awaiting downstream processing						936,629		
TOTAL RECOVERED / RECYCLED / IN PROCESS:						12,070,744		
REUSED								
COMPUTERS - (Desktop or integrated units)						0		
LAPTOPS						0		
TELEVISIONS						0		
MONITORS						0		
PARTS - SWAPPED OUT TO WORKING UNIT						0		
OTHER						0		
TOTAL REUSED:						0		
UNRECYCLED RESIDUAL (TO LANDFILL)								
WOOD						530,571		
NON-RECYCLABLE PLASTIC						91,169		
OTHER: TRASH, ETC.						146,943		
TOTAL RESIDUAL:						768,683		
TOTAL RECOVERED, RECYCLED, REUSED, RESIDUAL:						12,839,427		

SUMMARY OF PROCESSOR CLOSURE PLANS

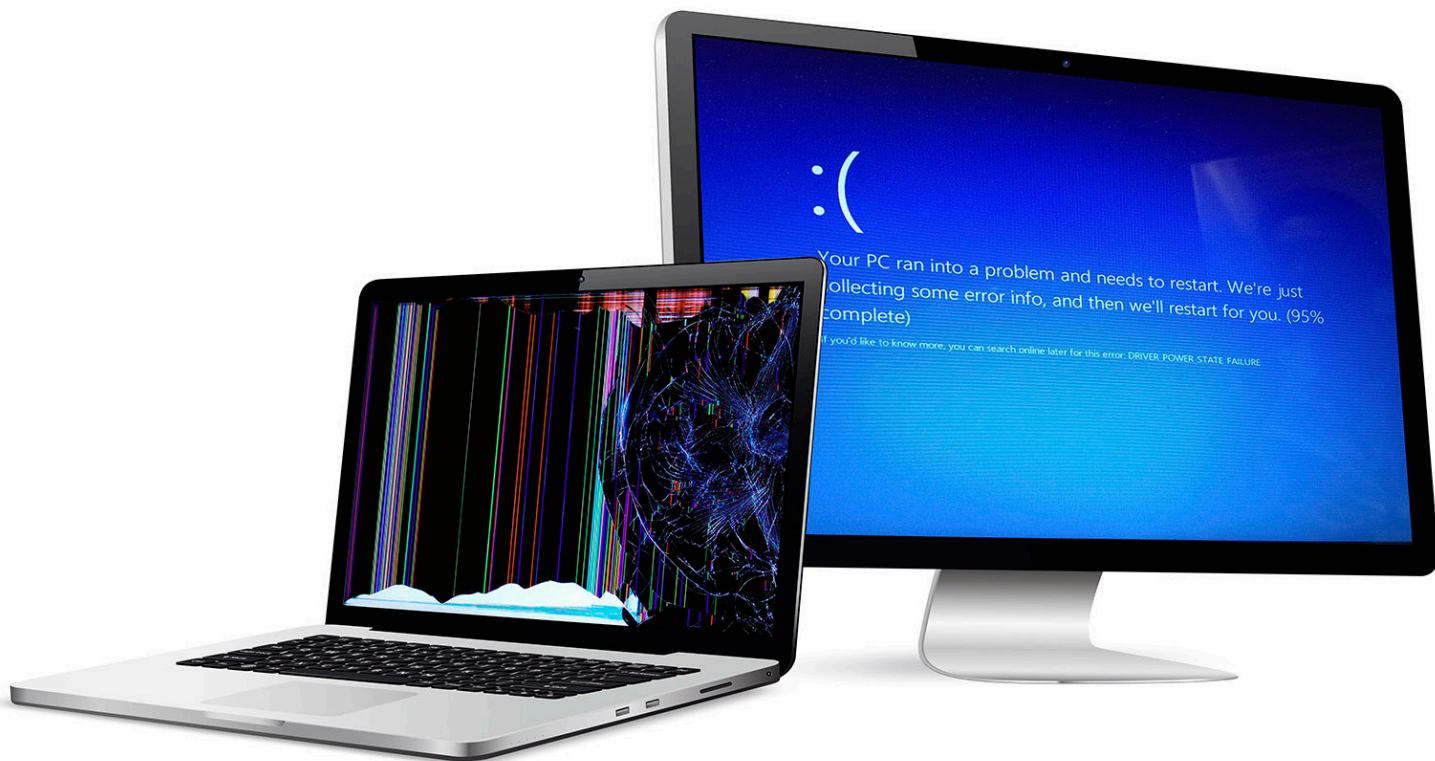
The Preferred Processing Standard requires registered processors to have adequate closure plans and a sufficient financial instrument to prevent the abandonment of CEPs and related materials.

CLOSURE PLAN ITEMS	ACE METAL	E-WASTE LLC	EWC GROUP	ERI	METRO METALS (TACOMA & VANCOUVER)	TOTAL RECLAIM	URT
Clean up and engineering labor included	X		X	X	X	X	X
Maximum CRT inventory on hand identified		X	X	X	X	X	X
Wood, batteries, lamps pounds estimated	X	X	X		X	X	X
Transportation	X	X	X			X	X
Hazardous Materials handling and disposition		X	X	X	X	X	X
Downstream contingency plan				X	X		X
Closure schedule				X	X	X	
Clean up standards identified and outlined				X	X	X	
CLOSURE COST ESTIMATES:							
Material removal	X	X	X	X	X	X	X
Transport	X	X	X	Haz Mat only	Haz Mat Only	X	X
CRT glass disposal	X	X	X	X	X	X	X
Disposal of other materials	X	X	N/A	N/A	X	X	X
FINANCIAL MECHANISM:	Assignment of Account / Time Deposit	Standby Trust	Non assigned bank account reserve	Irrevocable Standby Letter of Credit	Financial Assurance Letter of Guarantee	Standby Letter of Credit	Assurance Bond

MATERIALS OF CONCERN EXPORT INFORMATION

The preferred environmental standards, that all processors contracted with the WMMFA must subscribe to, require that any materials of concern (materials that present potential risk to human health or the environment) exported to a Non-OECD (Organization for Economic Co-operation and Development) member country have approval from the destination country and confirmation from the US Environmental Protection Agency.

The total weight of all materials of concern, including unwanted electronic products, electronic components, and electronics scrap collected by the WMMFA that have been exported from Washington state for plan year 2024, from processors used by the WMMFA, to countries that are not members of the Organization for Economic Co-operation and Development or the European Union = 0. This information is provided to WMMFA by each processor.



PROCESSOR VOLUME ALLOCATION FACTORS

The information below is excerpted from the WMMFA Standard Plan and describes some of the factors used in determining collected CEP volume allocation to participating processors.

COMPETITIVE RATES

- Rates by commodity make sense in comparison to freely bid rates by others, or suggested rates based on market conditions?
- Does processor transport in their proximity that would allow lower overall rate or better value?
- Has processor justified rates via quality of downstream vendors destinations?

ENVIRONMENTAL

- Are there any red flags in audit - how important are they?
- What is current inventory of materials requiring processing, and is it low or high in comparison to others?
- Does processor have reasonable assurance from downstream vendors as to ultimate disposition? Audits?
- What is the perceived RISK to the WMMFA of using processor? Are they in good standing in their communities?
- Considerations: Insurance, Litigation, Capital, Capacity, Expertise, Experience

CREATIVITY

- Does the processor use truck, ocean vessel, or train for lower environmental impact and expense?
- Does the processor use local vendors to save cost / environmental impact?
- Does the processor have multiple options in order to sustain plan compliance?
- Does the processor seem knowledgeable and have expertise in their field?
- Are their quality differences, perceived or real, of processors - by collectors that result in collector "requests" to use a certain processor?
- Does the Processor have a "re-use" component to their business?
- How much of the total weight of materials provided the processor is landfilled?
- Does the processor engage in public collection events coordinated by them?

PROCESSOR VOLUME ALLOCATION FACTORS

CAPACITY: TRANSPORTER & PROCESSOR

- Does the processor require volume corrections (plus or minus) from the authority due to their own operational or staffing issues?
- Can the processor adjust to downturns and upturns given unpredictable collection volumes by region?
- Is the processor easy to work with?
- Does the processor have enough dock doors and staff to accept multiple deliveries at the same time?
- Does the processor ever turn away transporters for its own operational convenience?
- Do collectors or other transporter vendors complain about processors service when receiving?
- Will transporters deliver to the processor for a reasonable rate? Do we incur detention charges?

PROXIMITY TO COLLECTOR

- The higher density of collection sites without self-transport = great transport opportunity for processors
- Location of processor extremely important for both cost (length of transport) and environmental considerations
- Does proximity of processor trump actual commodity prices via lower transport cost?
- What is the weighted average processing cost by collector, by processor, and are other constraints (capacity, etc.) hit before this consideration?

AUXILIARY SERVICES: TRANSPORTATION

- Can the processor make small and large collector pick ups timely using the correct equipment (liftgate, box truck, semi)?
- How far, in miles, will a self transporting collector transport his materials, and, at what cost, before the WMMFA moves to use a processor in closer proximity for their (collector)?
- Can the processor handle mistakes by collectors, transporters, the WMMFA or the public with a reasonable approach?
- Is the transporter getting sufficient volume from the WMMFA to remain interested in hauling favorable, and unfavorable, transport lanes?

PROCESSOR VOLUME ALLOCATION FACTORS

BILLING ACCURACY TIMELINESS

- Does the Processor communicate effectively if there are questions or problems?
- Is the processor timely and accurate with invoices?
- Is the processor “high maintenance” in terms of WMMFA staff time?
- Does the processor provide feedback to the Authority when it encounters problems?
- Does the processor provide enough detail on invoices to identify all relevant recyclable downstreams by commodity type?
- Do processors invoiced weights match collectors estimated or actual weights where applicable?
- Is the processor responsive with informational requests?

EXISTING INFRASTRUCTURE

- Is the processor establishing operational plans that take business from an existing vendor with no value added?
- Are there competing services to what the processor offers that are a better value given any duplication of effort?

FAIRNESS PER RCW & WAC

- Is re-use or recycling the first option prior to disposal or incineration? (RCW 70A.500.250)
- Is the business located in the State? (RCW 70A.500.060 (5))
- Are all registered processors being utilized? (RCW 70A.500.270 (7))
- Is the processor continuously improving its practices and processes? (RCA 70A.500.250)
- Does the authority avoid the creation of new infrastructure by using processor/transporter/collector? (RCW 70A.500.300 (2))
- Is the authority following policy per its own Standard and Operating Plans? (RCW 70A.500.310)
- Is the processor listed as in compliance with the “preferred” standards by Ecology? (WAC 173-900-650)
- Is the processor in compliance with WMMFA contractual terms? (WAC 173-900-600 (3))

DESIGN FOR RECYCLING

WMMFA is required to document “...work done with processors used by the plan to promote and encourage the design of electronic products that are less toxic and contain components that are more recyclable;” (WAC 173-900-900). This category of this work is often termed “design for recycling”.

In 2024, electronic waste processors that are registered in the E-Cycle Washington program were surveyed on the topic of Design for Recycling. The survey questions and a summary of responses are below.

SURVEY QUESTIONS & SUMMARY OF RESPONSES

1 *Large LCD TVs have become less expensive and more popular. What design changes to large-screen TVs would positively impact the cost of recycling?*

- The mercury is already removed.
- Using less glue and standardize the use of one or no more than 3 types of screws (no secured screws).
- Clips used to secure in replace of screws when possible. Also, if replacement parts were available, or the repair costs were reasonable, consumers would possibly opt to repair and reuse more often.
- LED lights by far have been the best improvement to any of the flatscreens, televisions or monitors.
- As we charge by weight, the heavier or larger it is, the more expensive. However, material seems to be becoming lighter so this would reduce the cost. Higher end circuit boards in material would add value as well.

2 *In the last 5 years, how has the size and number of circuit boards changed in CEPs? How has this impacted the cost and profitability of recycling e-waste?*

- Size has decreased so we get less money in the sale of residuals but it saves time in breaking it apart.
- It costs more to process them and reduce any possible profit we can get from them.
- The TVs we see as processors have increased in size with fewer wires and circuit boards. Lighter weight, fewer circuit boards and precious metals, but easier to disassemble.
- The value of the boards are lower taking into the consideration the value of the precious metals being higher, there is a low recycling value.
- We have not seen much in a change here. More change has been seen in the weight.

3 *How has the use of lithium batteries in electronics changed your recycling processes and costs over the past 3-5 years?*

- Not much change.
- Battery recycling is costly itself. We’ve only seen more batteries these past several years. The cost to us has dramatically increased.
- Lithium batteries are horrible and continue to be our largest exposure to fire.
- It has increased the cost as some of the items are imbedded and difficult to remove. Some lithium batteries are a charge to recycle and others are rebated so it depends on the material.

DESIGN FOR RECYCLING

4 *In the last 5 years, how have types and sizes of computers, laptops and tablets changed? How has this impacted the cost and profitability of computer recycling?*

- Size has decreased, less money in residuals. We get more Chromebooks recently.
- Computers remain acceptable. Some laptops and tablets are more difficult to dismantle due to the use of more glue.
- Desktops have gotten much smaller and lighter. The internal components (hard drives, mother boards, processors, RAM) continue to get more compact and lighter. Great for consumer in terms of sleek design. Unfortunate for processors.
- We are seeing the same, lower value boards and the quantity of them is starting to lower. Overall, the volumes are starting to decline, but the value remains ok. We do see some suppliers are removing the hard drives, RAM and processors, which does change the value of them.
- Laptops have become smaller and lighter and tablets come in all various sizes. Not much has changed in value/cost.

5 *Regarding plastic in CEPs, what design changes would positively impact your recycling process and costs?*

- None
- To avoid mixing plastic and aluminum/metal will be highly useful.
- Wish there were better plastic recyclers available. Finding outlets for the types of plastic we produce has had its challenges. The type of plastic isn't desirable nor profitable for plastic recyclers.
- Less is better, better liberation is always desirable, there seems to be more plastic than ever, this part of the market continues to be a concern especially with the new BAN laws in the works for 2025 it's a growing concern.
- The use of non-blended plastics would help as it affects the Basel Convention and what can be exported. As of now, plastics and steel have similar commodity values but this fluctuates.

.....

The overall weight of processed electronics is a primary driver of program cost and the amount of electronic waste entering landfills. The reduction in weight of individual electronic products is a design change that makes them less toxic and more recyclable. While the population of Washington State has grown, the total weight of collected Covered Electronic Products (CEPs) has significantly decreased. In 2013, E-Cycle Washington collected approximately 45 million pounds of CEPs. In 2024, the weight of collected CEPs was approximately 12.8 million pounds.

Drivers of the reduced weight and toxicity of electronics include:

- The decreased use of cathode ray tube (CRT) monitors and televisions. This technology has been almost completely replaced with lighter, LCD technology.
- The growing preference for laptop computers over desktop computers.
- The decrease in the number of circuit boards in televisions is being achieved through expanded software on individual boards.
- The reduction of toxic, mercury-containing lamps in LCD products.

Although it is unclear how much these trends are driven by manufacturers responding to consumer preference vs. environmental benefit, the resulting designs have led to reduced e-waste recycling volume, and less e-waste in landfills.

EDUCATION AND OUTREACH

The WMMFA conducted outreach activities in 2024 that were designed to raise program awareness in both urban and rural areas of the state.

Internet search and display ad campaigns were run in late summer, fall and winter of 2024. A streaming TV ad campaign was run in late summer and fall of 2024.

Email campaigns were employed to raise program awareness with Washington School Districts, municipal transfer stations and landfills. A print ad was placed in the Association of Washington Counties magazine to raise program awareness with local governments.

Joint funding for ad campaigns was offered to municipalities and E-Cycle collection sites. Internet display ads were used in a joint-funded campaign with the City of Seattle.

To raise awareness with small businesses, an article about E-Cycle Washington was provided for publication to the Washington Retail Association and the “Shoptalk” website, created by Washington Ecology.

E-Cycle posters and brochures are not considered to be program outreach materials because they are required to be used at collection sites by program rules. All new collection sites are provided with posters with the E-Cycle Washington logo and messages about the recycling program. A 5” x 8” info card is also provided at no-charge to municipalities, collection sites and others, on request. Replacement posters and info cards are provided at no charge.

2024 INTERNET DISPLAY ADS

Internet display ads, sized for phones, tablets and computers, were run in every county of Washington State. The landing page for internet display was the collection site locator at ecyclewa.org.

SPECIFIC WEBSITES THAT DISPLAYED E-CYCLE WASHINGTON ADS INCLUDED:

- cnn.com
- huffpost.com
- tumblr.com
- cosmopolitan.com
- kiro7.com
- usatoday.com
- easybrain.com
- people.com
- weather.com
- espn.com
- seattletimes.com
- yaktrinews.com
- foxnews.com
- spotify.com

CAMPAIGN DATES	IMPRESSIONS
August 19 - December 17	11,235,913

EDUCATION AND OUTREACH

DISPLAY AD EXAMPLES



2024 INTERNET SEARCH ADS

E-Cycle advertisements were included with search results when searches included keywords and phrases about recycling and electronics. The landing page for the ads was the collection site locator at ecyclewa.org.

CAMPAIGN DATES	IMPRESSIONS
September 2 - October 4	26,006

2024 STREAMING TV ADS

Ads were run in Eastern Washington on ad-supported streaming services including Pluto TV, Tubi, Sling TV and others. The ads were 15 and 30 seconds in length and were similar to regular television commercials but did not run on broadcast television. The ads appeared on a wide variety of channels, including:

- AMC
- CBS
- ESPN
- One America News
- The Weather Channel
- A&E
- CNN
- Fox News
- The History Channel
- Bravo
- Discovery
- MTV

CAMPAIGN DATES	IMPRESSIONS
August 19 - September 29	364,287

2024 PRINT ADS

Print advertisements were run in these three publications:

- Ellensburg Rodeo Program – 8/19/2024
- Lynden Tribune – 9/4/2024
- Association of Washington Cities, Cityvision Magazine – 12/10/2024

RE-USE OF COLLECTED CEPs

Based on informal surveys of collectors that typically refurbish or re-sell used electronics the ratio of reused to recycled products varies considerably by type of collector, and type of product. An estimated 20-25% of the computer and flat screen products are given a cursory review for candidacy for either repair or re-sale. A subset, those that are thought to be the most valuable as used products, are considered for repair or re-sale. If they power on and appear to work, they go directly to re-sale. Some collectors that specialize in computer refurbishment may have higher re-use rates than other collectors.

Non-profit collectors are performing less testing and repair than they had been in the initial years of the E-Cycle Washington program. Testing is normally reserved for high value products and/or products in pristine condition.

The E-Cycle Washington program was designed primarily as an end-of-life program for unwanted electronics and most of our collectors primarily focus on getting CEPs to the program for responsible recycling. None of the E-Cycle Washington registered processors were engaged in re-use or refurbishment of end-of-life products in 2024. Therefore, 100% of reuse and refurbishment for resale was done at the collector level.

The WMMFA does not have the authority to require collectors to provide re-use statistics on collected CEPs. Our estimates are based on reported collection and processing data, and informal conversations with collectors and processors.

MANUFACTURERS PARTICIPATING IN THE STANDARD PLAN IN 2024

Manufacturers are invoiced a portion of program expenses based on market share information that is provided to WMMFA by Washington Ecology.

3MD Inc.
4th Dimension Computer
Acer America Corp
ADT LLC dba ADT Security Services
Afunta LLC
AG Neovo Technology Corp
Amazon.com Services LLC
AMDOE, LLC
Amelia World Corp d/b/a LINSAY
American Future Tech Corp dba iBuypower
Angel Computer Systems Inc
Apple
ASA Electronics
Asus Computer International
Atyme Corporation, Inc.
Aura Home
AWA Technology Inc.
Azpen Innovation, Inc.
Azulle
Barco, Inc.
Barnes&Noble.com LLC
BenQ America Corp
Bereson USA
Best Buy
Better Workspaces
BLU
Bosch Security Systems, Inc.
Cabeli Team America Limited
Caytan Enterprise (Vilros)
Coastline Micro Inc.
Computer Nut Hut
Computer Technology Link
Computer Works of Yakima Inc
Contixo Inc
Corsair
Creedon Technologies USA, LLC
Curiouser Products Inc
Curtis International Ltd
Custom Computer Sales & Svc
Cutting Edge Computer Solutions
CyberPower
Cybertron International, Inc

Cycrest Systems Inc.
Deli Stationery, Inc.
Dell Computer Corp
Diaotec
Digimaxis LLC
DP Audio
DPI Inc
Durabook Americas Inc.
Dynabook Americas, Inc.
ECTACO, Inc.
EIZO Inc.
Element TV Company, LP
Elite Lux Technologies Inc
Elitegroup Computer Systems
Elo Touch Solutions, Inc
Eluktronics, Inc.
Empowerment Technologies
Envision Peripherals Inc
Equus Compute Solutions
EverFocus Electronics Corporation
Evervue USA
F5CS LTD LLC
Facebook Technologies LLC
Falcon Northwest
Friendly Computers / Computer Renaissance
Fujitsu North America
Funai Corporation, Inc.
General Digital
Gigabyte
Google LLC
Grays Harbor Computer Svc
Guangzhou Wenshi Xinxi Keji Youxian Gongsi
GVISION USA, Inc.
Himalaya Trading Inc
Hisense USA Corp
Hitachi America, LTD Digital Solutions Division
HK Contrum Electronic Limited
HMD America, Inc.
HP Inc
HTC America, Inc.
ICI Touch Technology Inc.
iFIT Inc.

MANUFACTURERS PARTICIPATING IN THE STANDARD PLAN IN 2024

IGEL America Sales Corporation
Ikegami Tsushinki Ltd.
InFocus Corp
Inspira Technologies LLC
Integrity Computers and Networking
Intel
International Business Machines Corp.
J & N Computer Service
Johnson Controls
Johnson Health Tech Co., Ltd
JVC KENWOOD USA Corp
Kaser Corp.
KD Group
KS Choi Corp
Kyocera International
Last Stop Computers
Lenovo
Lexibook America
LG Electronics USA Inc
Lilliput Electronics Co, Ltd
Lippert Components
Lorex Technology Inc.
Macari Baby, Inc.
Main Business Systems
Majestic Global USA
Mambate USA, Inc.
Marvel Entertainment, LLC
Microsoft Corporation
Mimo Inc
Minno LLC
Mitsubishi Electric US, Inc.
Modern Office Equipment
MSI Computer
Naxa Electronics, Inc.
NCS Technologies, Inc
NEC Display Solutions
Netgear Inc
Nixeus Technology, Inc.
NVIDIA Corp
Optoma Technology Inc
Oracle America Inc
OREI
Osram Sylvania
Panasonic Corporation of North America
Parsec Computer

PC Recycle
PDi Communication Systems, Inc.
Peerless-AV
Pelco
Peloton
Perfection PC Inc.
Philips Electronics
Planar Systems Inc
Plantronics
Plexon, Inc.
PLR IP Holdings, LLC
Pogo Linux, Inc.
Precor Incorporated
Premio, Inc
Prostar Computer, Inc
Puget Sound Systems Inc.
Purism, Inc
Pyramid Distributing
Quality Computers & Svc
QuantumFX
QubicaAMF
Rakuten Kobo Inc
Razer USA, Ltd.
reMarkable
Re-Pc Recycled Computers
RJ Technology, Inc
Roku Inc
Russell Distribution
Sager Midern Computer Inc.
Samsung Electronics Co
Sceptre Inc.
Sensormatic Electronics LLC
Sharp Electronics Corporation
Shenzhen AlldoCube Technology And Science
SHENZHEN AVIS ELECTRONICS TECHNOLOGY
Shenzhen Diyigouxiang Technology Co
SHENZHEN GLOBALEBUY CO
Shenzhen Siwei Shikong Technology Co. Ltd.
Shenzhen Valuelink E-Commerce Co.,Ltd.
Shenzhen Wannianxin E-Commerce Co.
Shenzhenshi Huguangchengxiangkeji
Shuttle Computer Group
Simbans Limited
SkyVue
Skyworth USA Corporation

MANUFACTURERS PARTICIPATING IN THE STANDARD PLAN IN 2024

SMART Technologies ULC
Sony Electronics Inc
Source Code Corporation
Southern Telecom Inc
SunBriteTV LLC
Sungale Electronics
Supercircuits, Inc
Supernote
Supersonic, Inc.
Targus
TCT Mobile, Inc
TekVisions, Inc
Tonal Systems, Inc
ToteVision
Trans Cosmos America
TTE Technology Inc
Up Time Technology
US Micro PC Inc
VAR Corporation

VGH Computer Services
VGRush, Corp.
ViewSonic Corp World HQ
Visual Land
Vitek Industrial Video Products, Inc.
VIZIO INCORPORATED
VOXX International Corp.
VTech Electronics North America, LLC
Wacom Technology
Walmart Inc.
Westinghouse Electronics USA
Worldwide V7 Private Label
Worryfree Gadgets LLC
Yakima Networking
ZALMEN REISS & ASSOCIATES INC
Zebra Computers
Zebra Technologies Corporation
ZOTAC USA, Inc.
ZTE USA



REVENUE AND EXPENSES

TOTAL REVENUE (Payments received from participating manufacturers, FY 2024)	\$5,208,832	
OPERATIONAL EXPENSES		
Collection - registered collectors and covered events	1,188,755	21.94%
Transportation - registered transporters and collector transport	800,652	14.78%
Processing - to registered CEP processors	3,026,405	55.85%
Outreach - including advertising and promotional materials	70,000	1.29%
TOTAL OPERATIONAL EXPENSES	\$5,085,812	93.86%
ADMINISTRATIVE EXPENSES		
Salaries and wages	267,666	4.94%
Professional services - legal, accounting and consulting	8,027	0.15%
Audit and CPA review	15,010	0.28%
Rent	11,335	0.21%
Travel - hotels, meals and related expenses	5,507	0.10%
Office supplies	6,532	0.12%
Insurance	4,688	0.09%
Telephone and internet	5,721	0.11%
Meetings and seminars	3,478	0.06%
Postage and delivery	1,760	0.03%
Office hardware, software and equipment	1,869	0.03%
Utilities	0	0.00%
Bank service charges	606	0.01%
Miscellaneous	388	0.01%
TOTAL ADMINISTRATIVE EXPENSES	332,587	6.14%
TOTAL OPERATIONAL AND ADMINISTRATIVE EXPENSES	\$5,418,399	100.00%

ADDITIONAL FINANCIAL INFORMATION	
1 Total pounds collected and cost per pound for FY 2024	
CEP pounds collected in 2024	12,839,427
Total program cost per pound in 2024	\$0.422
2 Other program financial details	
Financial reserves December 31, 2023	\$71,429
Financial reserves December 31, 2024	260,006
Settlement funds balance December 31, 2024	\$67,969

APPENDIX A:

Additional information available

POUNDS PROCESSED VERIFICATION

This document is over 187 pages long and contains processor invoice data for 2024.

PROCESSOR ENVIRONMENTAL COMPLIANCE AUDITS

All registered electronic waste processors that participate in the E-Cycle Washington program are required to provide environmental audits annually. The audits are posted on the Washington Ecology website.

To receive a copy of these documents, please send a request to the WMMFA or Washington Ecology:

info@wmmfa.net (WMMFA)

clac461@ECY.WA.GOV (Washington Ecology)

