

# FRONT RANGE WASTE DIVERSION ANNUAL REPORT 2021-2022



*Town of Erie's public drop-off for single-stream recycling and yard waste. (Zero Waste RFA FY21)*

*Resource Central in Boulder, vertical racking holding cabinets for resale within the steel storage structure and under bilingual interior signs. (Construction & Demolition RFA FY21)*



Submitted to the Colorado Joint Budget Committee; the Health, Insurance, and Environment Committee of the House of Representatives; and the Environmental Health and Sustainability Division, Colorado Department of Public Health and Environment

July 1, 2022

# Document Information

## Title

Front Range Waste Diversion Annual Report FY 2022

## Subject

Front Range Waste Diversion enterprise and grant program report for Fiscal Year 2022

## Statute

Section 25-16.5-111, C.R.S. (Senate Bill 19-192)

## Date

July 1, 2022

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# FRWD Report 2021-2022

## Part I. Executive Summary

The Front Range Waste Diversion Enterprise (FRWD, board, or “forward”) collects funds from an increase in user fees at Front Range (Adams, Arapahoe, Broomfield, Boulder, Denver, Douglas, Elbert, El Paso, Jefferson, Larimer, Pueblo, Teller, and Weld) county landfills and provides grants and technical assistance to these communities to increase recycling, composting, and waste reduction. The ultimate goal of the FRWD enterprise is to provide grant funds and technical assistance to achieve aggressive waste diversion goals for the Front Range region: 32% by 2021, 39% by 2026, and 51% by 2036.

The State began collecting the landfill tipping fees on behalf of the FRWD Enterprise at all Front Range landfills on January 1, 2020. As of July 1, 2022, the enterprise fund has earned \$11,104,555.94, and the unobligated balance of the fund is \$6,112,254.58. The board has completed five rounds of funding opportunities for grant projects between June 2020 and May 2022, awarding a total of \$10,996,083.00 to thirty (30) projects out of a total sixty-two (62) grant applications received.

An endeavor of this magnitude requires significant effort, particularly in the early stages, to develop a program, processes, and expectations, all to ensure that the enterprise uses best practices to meet the needs of the Colorado community and the intent of the authorizing statute, while complying with applicable state rules and regulations. The thirteen members that make up the FRWD Board of Directors have contributed a combined 2,105 hours in meetings alone to maintaining waste diversion progress on the Front Range and advancing the mission of the enterprise more broadly.

The eligible Front Range entities that have applied for grants include towns, cities, and counties; recycling and composting businesses of all sizes; nonprofit recyclers; reuse organizations; manufacturers of recycled-content products; demolition and deconstruction businesses; a major university; a Council of Governments; a consulting firm; an industry association; and a food-rescue organization.<sup>1</sup> The first contracts began in January and February 2021, and the first reports on waste diverted as a result of the grants were received in June 2021. This year’s report is the first to provide project diversion tonnage.<sup>2</sup>

Based on their experience in awarding the first rounds of this enterprise fund, the board determined that certain restrictions in the FRWD statute were causing undue limitations and inhibiting progress in achieving State of Colorado’s diversion goals. Therefore, the board recommended to the legislature the removal of restrictions in statute regarding applications from haulers, landfill owners, and landfill operators, and an increase in the maximum amount of any

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<sup>1</sup> The complete list of entities can be found in Appendix 2 on page 12.

<sup>2</sup> This information is located in Appendix 4 on page 17.

single grant award from 20% to 50% of annual fund revenue. These recommendations were successfully adopted via House Bill ([HB\) 22-1159](#) “Waste Diversion And Circular Economy Development Center.” The board thanks the legislature for making these improvements to the FRWD statute.

On other policy fronts, the FRWD Board of Directors supported the Statewide Organics Management Plan being conducted by the Colorado Department of Public Health and Environment (CDPHE) in collaboration with the Colorado Department of Agriculture (CDA), which will identify organic waste feed stocks and gaps in compost infrastructure and make recommendations for better managing organic waste and incentivizing its use by agriculture. The board is hopeful that this plan will be useful in guiding future FRWD program grant awards as well as policy advancements.

Finally, FRWD is also promoting recycling policy improvements including adoption of Pay-As-You-Throw (PAYT) or volume-based pricing for trash service by municipalities and counties, which is considered a best practice in incentivizing curbside recycling and composting collection programs.

## Part II. Progress toward Goals

In addition to establishing grant protocols and initiating the grant making process, much of the first two years of the program were spent setting up and developing a strategic plan and vision for the program to achieve aggressive diversion goals set for the FRWD Enterprise in the 2019 legislation. A focus of the third year has been expanding outreach to potential grant applicants and refining application review and grant contracting processes.

The [2016 Colorado Integrated Solid Waste & Materials Management Plan](#) remains a critical part of determining waste diversion targets, and a key aspect of the prevailing vision continues to be achieving the goal of all Front Range communities providing access to universal curbside recycling and compost collections for all residents. In FY21, the board determined that it would be beneficial to establish a Technical Assistance Service Provider (TASP) with subject matter expertise in policy development and outreach. The TASP program will work directly with city and county governments to stand up curbside recycling collection programs that include bundling with trash services and PAYT or volume-based pricing. A request for proposals was published in April of 2021 and Phase 1 of this project was completed in May 2022 as discussed in more detail below.

While the FRWD Enterprise has worked diligently to meet the state’s diversion goals, the most recent data presented by the department’s Materials Management Unit (MMU) reflects a recycling rate of 16.2% on the Front Range in 2020. Although final totals are not yet available, it seems clear that the 2021 goal of 32% will not be realized.

2020 Totals	Front Range Region	Greater Colorado Region	Statewide
Recycling	703,040	64,707	756,154
Composting	277,747	32,937	310,686
MSW Diversion	980,787	97,645	1,066,840
MSW Disposal	5,088,440	823,803	5,912,243
<b>2020 Diversion Rate</b>	<b>16.2%</b>	<b>10.6%</b>	<b>15.3%</b>
<b>2021 Diversion Goal</b>	<b>32%</b>	<b>10%</b>	<b>28%</b>

CDPHE, Materials Management Unit, October 2021

Other data presented by the MMU noted that Front Range diversion percentages remained the same from 2019 to 2020, but were down from 2018. For these reasons, the FRWD Enterprise must continue its ambitious search for successful grant projects through innovative solutions such as Phase 2 of the TASP program and creation of a FRWD Ambassador.

Early in fiscal year 2023, the board will launch Phase 2 of the TASP program to support communities ready to take the next step in advancing up the zero waste ladder and implementation of the FRWD Ambassador will provide outreach and guidance to for and nonprofit entities in the 13 (thirteen) Front Range counties.

### Regular Cadence for Grant Funding Opportunities

The board decided to set a regular cadence and plan for issuing grant funding, or Requests for Applications (RFAs), to help communities and companies plan for upcoming opportunities. The board aims to release one RFA every four months in approximately January, May, and September of each year. Offerings will alternate between a general focus application to advance communities up the zero waste ladder, and a special-focus funding opportunity.

The board will decide the topic for each special-focus RFA based on identified gaps in diversion for specific materials, needs of specific groups or communities, and other factors. The first special-focus RFA was released in January 2021, and called for projects that addressed construction and demolition waste diversion and reduction. The second special-focus RFA, “Advancing Organic Waste Diversion and Composting on the Front Range” was advertised to the public in September 2021, and the full RFA was published in October 2021. Prior to determining the special focus, the board reviewed available data and consulted state experts on materials that make up a large portion of the waste stream but could be diverted from landfills. Organic material - including food waste, yard waste, clean wood, and other organics like food-soiled paper - makes up almost 34% of the Front Range waste stream. Considering this data, the board decided to focus the second special-focus RFA on projects that will divert this organic material from landfills, with preference for projects that develop or improve organics infrastructure, processing capacity, or end markets.

An RFA for a third round of Front Range Community Zero Waste funding was published in July of 2022 and an expanded scope RFA, “Waste Diversion & Reduction on the Front Range through a Broad Focus Approach,” was advertised to the public on May 1, 2022. The Broad Focus RFA, along with a Letter of Intent (LOI) process, was published on June 1, 2022. In an effort to capture proposals not previously addressed, appropriate broad focus projects include:

- Recycling collections, processing, and remanufacturing using recycled materials
- Organic waste (including yard debris, grass clippings, and food scraps) collections and processing to create compost and other beneficial products
- Construction and demolition (C&D) waste diversion and reduction, including deconstruction programs, and end market development for unique C&D materials
- Programs and policies to promote waste reduction and reuse
- Other creative ideas for increasing waste diversion

In an effort to streamline the application process, an LOI approach was introduced with the Broad Focus RFA. The LOI requires potential grant applicants to provide a brief (1,500 words or less) content rich description of their project, focusing on specific details such as who, what, when, where, why and how of the proposed grant project. Only those LOIs supported by the board, are then invited to complete the full grant project application. There are several benefits to implementing the LOI process:

- Board members will spend time reading only appropriate applications
- Applicants will not waste time completing an arduous application process for a project that is not of interest to the board
- Applicants invited to apply will receive constructive feedback from board members in advance of completing the full grant application
- Denied applicants will receive constructive feedback from board members in an effort to improve future project proposals

### Services Contracted to Assist Board Initiatives

The FRWD enterprise will achieve many of its goals with assistance from outside contractors through service contracts managed by the department. FRWD has completed the RFP process for three contracts for technical assistance and data collection and analysis. The board's first service contract was issued in August of 2020 for a survey of data methodologies and recommendations for improved data metrics. This project was awarded to Resource Recycling Systems (RRS), and completed in November 2020. The [final report](#), available on the FRWD program website, identifies best practices and standards across the nation, including an evaluation of program strengths and weaknesses. The consultant applied these best practices to Colorado's waste diversion tracking systems and made recommendations on metrics and benchmarking in the state. The top recommendations included adding new diversion metrics to the state's already robust current metrics (diversion rate, per capita rate, and material capture rates), and requiring, incentivizing, or otherwise collecting a separate set of diversion data at the county level.

The FRWD Work Plan established metrics that can be used to target technical assistance to local governments and key performance indicators (KPIs) to assess the effectiveness of the board's activities. Although department staff had some relevant data, additional information was needed. To establish a starting point and identify missing metrics, the board issued an RFP in April 2021 for the FRWD Baseline Recycling Data Project to collect data from the 13 counties and 92 cities and towns in the Front Range of Colorado. The board awarded the project to Eco-Cycle and the [final report](#) was presented in December 2021. The Baseline Recycling Data results are available in an interactive database housed on the [FRWD webpage](#) under the 'Resources' header. This database details waste diversion practices in Front Range communities, including:



- recycling program availability and components
- waste diversion goals
- capture and contamination rates
- waste management and reduction policies, including mandates and material bans
- and more

In April of 2021, the board also published an RFP to recruit a contractor to develop a Technical Assistance Service Provider (TASP) program to provide technical assistance to Front Range communities with a goal of meeting localities ‘where they are’ and assisting with their move up the zero waste ladder. Four TASP proposals were received, with the contract for Phase 1 of the program awarded to Burns & McDonnell. Their [final Phase 1 report](#), which included a Digital Content Library and recommendations for TASP program implementation, was accepted by the board in May 2022. An RFP for Phase 2 of the TASP program was published in May 2022 to select a contractor to implement the TASP program, building upon the foundation created in Phase 1.

Finally, the FRWD program has entered into an agreement with Emerge Knowledge, to provide an online [Municipal Measurement Program](#) (MMP) - an assessment and planning tool - free to local governments. Emerge Knowledge’s ReTRAC system is identified by the Environmental Protection Agency as the premier system to help standardize data collection across the nation. Although tailored to the data needs of the FRWD program, the MMP is available to all Colorado municipalities and counties, and will be a requirement for all local government recycling grant contracts in the future.

## Part III: Next Steps to Achieve Goals

### Technical Assistance for Local Communities - Phase 2

The board is taking deliberate, coordinated steps to achieve its strategic goals. In recognition that simply publishing grant opportunities and hoping that communities are ready to take the next step up the “zero waste ladder” on their own may not be effective, the board will execute the TASP Phase 2 contract in coming weeks to employ a partner to implement and manage the program over time. The TASP program will offer assistance from a menu of program and policy options that each Front Range community can choose from to advance their waste reduction and diversion goals. This plea for technical assistance was repeated again and again by communities in the FRWD Baseline Recycling Data Project, and the board believes it will be most effective to hire an outside consultant to work with Front Range communities independently from the regulatory nature of CDPHE’s involvement in waste management. TASP will build upon data gathered in the Baseline Recycling Data Project and the Phase 1 work completed by Burns & McDonnell to steer the program towards the type and extent of technical assistance needed for each Front Range community.

To complement the work being done by the TASP program and to further stress the importance of communities codifying zero waste efforts, the board has created a letter of support<sup>3</sup> that may be distributed to city councils, county commissioners, and other forms of local government to

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<sup>3</sup> The letter is included as Appendix 6 on page 19.



underscore the program’s support for these efforts. The letter specifically calls for expanded recycling and compost collection services, volume-based pricing, and instant rebate programs to assist with equitable access to services for low income families.

### FRWD Board Ambassador

Following review of and discussion concerning the RREO Colorado [NextCycle](#) business incubator program, the board determined that NextCycle benefits would also improve the FRWD program by providing valuable marketing and outreach to a broader range of potential grant applicants. Thus, the Board created a FRWD Board Ambassador position by expanding the NextCycle contract via contract amendment. The ambassador will provide external outreach and encourage broad participation of for-profit and nonprofit entities wishing to engage in zero waste activities and recycling end markets in the 13 Front Range counties. This position will be supported by the NextCycle program as contracted with RRS, but paid for with FRWD funding. The ambassador role will include the following activities:

- Create and implement a FRWD marketing plan and website
- Host office hours to support potential grant applicants
- Attend events and conferences in the FRWD ambassador capacity
- Pursue speaking engagements in the FRWD ambassador capacity
- Assist in reviewing grant applications
- Attend board meetings as requested and provide monthly progress reports to the board
- Provide on demand support for research and report assignments

The ambassador contract amendment was the first dual program (FRWD and RREO) agreement, and was executed in June 2022.

## PART IV: FRWD Enterprise History

The FRWD Enterprise was established through Senate Bill [\(SB\) 19-192](#) and signed into law by the governor in May 2019. The FRWD Enterprise consists of a 13-member Board of Directors (board) as well as staff from the Colorado Department of Public Health and Environment (CDPHE, or department). The board includes members from nonprofit and for-profit organizations involved in waste diversion along the Front Range, as well as representatives from Front Range municipalities and counties, department staff with expertise in sustainability, compliance, and representation from the Colorado office of economic development.

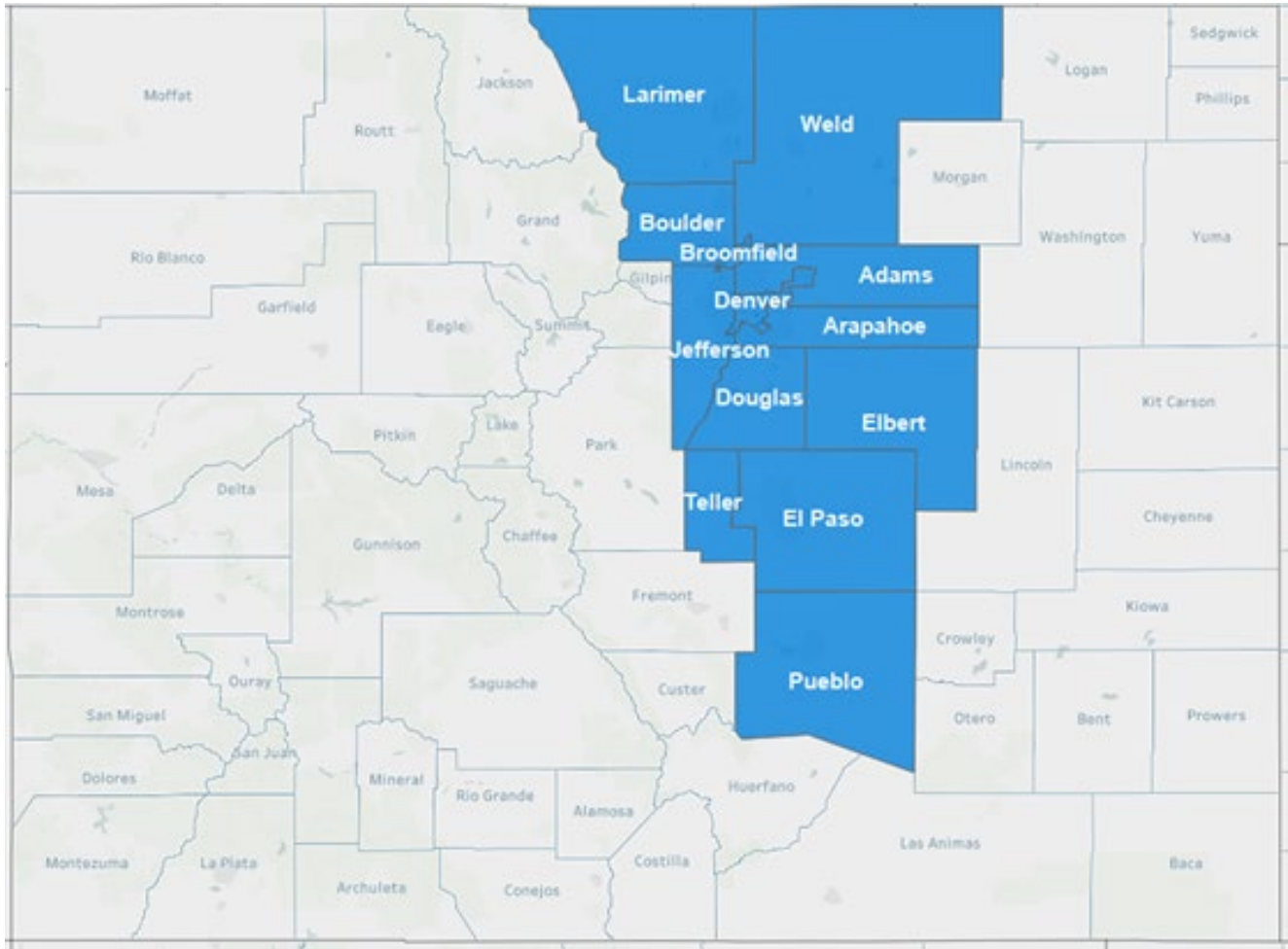
In June of 2021, the department reorganized the structure of staff providing administration for two recycling grant programs - the FRWD program and the Recycling Resources Economic Opportunity program (RREO) - into a single team to achieve efficiencies and provide surge capacity for administrative functions that span both programs. This reorganization created the department’s Recycling Grants Team (RGT), which has since been successfully implemented. The two programs now work in tandem sharing staff expertise, grant making best practices, and institutional knowledge.

Because Statute exempts FRWD from the State’s procurement code, FRWD staff manages contracts with unique templates and contracting procedures that support programmatic differences while complying with state fiscal rules.

In April 2021, a Memorandum of Understanding was executed between the FRWD Board of Directors and the department. Statute calls for this contract to outline that the department provides office space and administrative staff to the enterprise. The MOU also provides detail on how contracts are managed by staff and the board and calls for annual budget approval by the board.

<b>History of FRWD Grant Funding Opportunities</b>
Front Range Community Zero Waste grants: <ul style="list-style-type: none"><li>● RFA published Jun 2020: ~\$2.5M available</li><li>● RFA published May 2021: ~\$3.5M available</li><li>● RFA published Jul 2022: ~\$4.5M available</li></ul>
Special-Focus grants: <ul style="list-style-type: none"><li>● RFA published Jan 2021: ~\$2.5M available, Construction &amp; Demolition</li><li>● RFA published Oct 2021: ~\$5M available, Organics Infrastructure</li><li>● RFA published Jun 2022: ~\$4M, Broad Focus</li></ul>

# Appendix 1: Map of FRWD Enterprise Area



FRWD County 



## Appendix 2: FRWD Grant Applicants

### **Community Zero Waste applicants**

*RFA #31245 released June 2020*

*Total FRWD funds requested: \$5,859,323*

Backyard Farm  
City and County of Broomfield  
City of Arvada  
Colorado State University  
Community Cycles  
Compost Queen  
Denver Regional Council of Governments  
Eco-Cycle  
Good Business Colorado (dba Resilient Restaurants of Colorado)  
Groundwork Denver  
Habitat for Humanity Metro Denver  
ReBlocks Company  
Recycle Colorado  
Scraps  
Spring Back Colorado  
Town of Erie  
Town of Nederland  
Waste Management of Colorado  
We Don't Waste  
Wompost

### **Construction & Demolition Waste applicants**

*RFA #32892 released January 2021*

*Total FRWD funds requested: \$3,726,975*

5280 Recycling Solutions  
High Plains Disposal  
Hillen Corporation  
National Center for Craftsmanship  
Perks Deconstruction Ltd.  
Recycle Colorado  
Resource Central  
Resource Recycling Systems

### **Community Zero Waste projects**

*RFA #33975 released May 2021, projects started March 2022*

*Total FRWD funds requested: \$2,383,659*

arc Thrift Stores  
Boulder County Administrative Services Dept.

CANIMAL  
City of Golden  
Compost Colorado  
Compost Queen  
Jefferson County  
Princess Gardens  
Town of Nederland  
The Trash Gurus

**Organic Waste and Composting projects**

*RFA #35765 released October 2021, projects expected to start May - August 2022*

*Total FRWD funds requested: \$9,270,195*

Blueterra Inc. DBA Clementine Curbside  
City of Thornton  
Compost Colorado  
Dama Distributing  
Denver Botanic Gardens  
Denver Dept. of Transportation and Infrastructure  
Douglas County School District  
Lambland, Inc., DBA A1 Organics  
National Center for Craftsmanship  
Replenish Nutrients, LTD  
Rooney Road Recycling Center Authority  
Vogl Homestead Farm, LLC  
We Don't Waste

**Community Zero Waste projects**

*RFA #ZW030422 released January 2022, projects will start August - September 2022*

*Total FRWD funds requested: \$5,621,928*

Adams County Government  
BioChar Green, PBC  
City of Colorado Springs  
City of Fountain Colorado  
City of Greeley  
City of Pueblo, a Municipal Corporation  
Dama Distributing  
Nude Foods Market  
Ridwell, Inc.  
Skumatz Economic Research Associates, Inc. (SERA)  
Town of Morrison

## Appendix 3: FRWD Grant Projects Awarded

### Community Zero Waste projects - FY20

RFA #31245 released June 2020, projects started Jan/Feb 2021

Total FRWD funds awarded for this RFA: \$2,017,321.42

Organization	Organization Type	Project Name	Amount	County
City of Arvada	Government	Universal Curbside Recycling Implementation	\$500,000	Jefferson/Adams
City and County of Broomfield	Government	Zero Waste Strategic Plan	\$90,000	Broomfield
Colorado State University	University	Composting Site and Program Expansion	\$80,810	Larimer
Habitat for Humanity Metro Denver	Nonprofit	Storage Yard Reconstruction	\$164,651	Denver
Scraps <sup>4</sup>	For-Profit	Yard Waste Collection Expansion	\$76,908.42	Denver
Town of Erie	Government	Recycling Center Relocation and Zero Waste Policies	\$247,078	Boulder/Weld
We Don't Waste	Nonprofit	Food Rescue Program Expansion	\$199,689	Denver
Waste Management of Colorado	For-Profit	Improved Paper Recovery at Franklin Street MRF	\$500,000	Arapahoe
Wompost	For-Profit	Compost Collection Expansion	\$158,185	Arapahoe

### Construction & Demolition Waste projects - FY21

RFA #32892 released January 2021, projects expected to start October 2021

Total FRWD funds awarded for this RFA: \$1,413,705

Organization	Organization Type	Project Name	Amount	County
5280 Recycling Solutions <sup>5</sup>	For-Profit	5280's Drywall Solution	\$350,147	Adams
National Center for Craftsmanship	Nonprofit	C&D Material Diversion, Data Collection, and Applied Research	\$157,190	Larimer
Resource Central	Nonprofit	Improve Drive-Through Drop Offs for C&D Waste	\$443,384	Boulder
Perks Deconstruction	For-Profit	Denver's First Deconstruction Warehouse	\$124,900	Adams
Western Disposal Services	For-Profit	C&D Sorting and Diversion Center	\$338,084	Boulder

<sup>4</sup> This contract was mutually terminated. Scraps will be able to reapply for FRWD program funding in the future.

<sup>5</sup> This project has not yet started, pending asbestos mitigation approval.

### Community Zero Waste projects - FY21

RFA #33975 released May 2021, projects started March 2022

Total FRWD funds awarded for this RFA: \$752,523

Organization	Organization Type	Project Name	Amount	County
arc Thrift Stores	Nonprofit	arc Thrift Stores Warehouse & Recycling Department Fleet Upgrade	\$247,783	Jefferson
Boulder County Administrative Services	Government	Nederland Transfer Station ReUse Barn	\$46,000	Boulder
City of Golden <sup>6</sup>	Government	City of Golden Compost Collection Carts	\$170,000	Jefferson
Jefferson County	Government	Jefferson County Sustainable Lands and Safer Homes (SLASH) Equipment Purchase	\$458,740	Jefferson

### Organic Waste and Composting projects- FY22

RFA #35765 released October 2021, projects expected to start May - August 2022

Total FRWD funds awarded for this RFA: \$6,143,938

Organization	Organization Type	Project Name	Amount	County
A1 Organics/Lambland, Inc.	For-Profit	Advancing Colorado Organic Waste Diversion by Expanding Infrastructure with Addition of GORE Covered ASP Composting System	\$1,501,280	Weld
City of Thornton	Government	Thornton Compost Kick-Start Initiative	\$57,914	Adams
Compost Colorado	For-Profit	Critical Compost Infrastructure	\$227,675	Denver
Denver Botanic Gardens	Nonprofit	Chatfield Farms Composting Project	\$108,431	Jefferson
Denver Dept. of Transportation and Infrastructure	Government	Denver Compost Expansion	\$2,300,000	Denver
Douglas County School District	School	DCSD Commercial Composting	\$62,802	Douglas
Replenish Nutrients	For-Profit	Construction of a Value-add Regenerative Fertilizer Facility that Utilizes Colorado Organic Waste Streams	\$820,836	Weld
Rooney Road Recycling Center Authority	Government	Design and Construction of a Slash Facility in Jefferson County	\$1,065,000	Jefferson

<sup>6</sup> This award was rescinded. The City of Golden will be able to apply for FRWD program funding in the future.



**Community Zero Waste projects - FY22**

*RFA #ZW030422 released January 2022, projects will start August - September 2022*

*Total FRWD funds awarded for this RFA: \$745,505*

Organization	Organization Type	Project Name	Amount	County
Adams County Government	Government	Adams County Waste Diversion Improvement Project	\$147,610	Adams
City of Colorado Springs	Government	WastelessCOS	\$350,000	Larimer
City of Greeley	Government	Greeley Residential Waste Diversion Study	\$147,895	Weld
Nude Foods Market	For-Profit	Nude Foods Market Zero Waste Delivery Expansion into Denver	\$124,900	Boulder

## Appendix 4: Project Spending and Diversion

Organization	RFA Cycle	Project Name	Amount Awarded	Funds Spent <sup>7</sup>	Tons Diverted <sup>8</sup>
City of Arvada	Zero Waste	Universal Curbside Recycling Implementation	\$500,000.00	\$500,000.00	2,643
City and County of Broomfield	Zero Waste	Zero Waste Strategic Plan	\$90,000.00	\$83,642.36	0.00 (study)
Colorado State University (CSU)	Zero Waste	Composting Site and Program Expansion	\$80,810.00	\$0.00	25
Habitat for Humanity	Zero Waste	Storage Yard Reconstruction	\$164,651.00	\$106,855.14	1,642
Town of Erie	Zero Waste	Recycling Center Relocation and Zero Waste Policies	\$247,078.00	\$40,447.20	173
Waste Management	Zero Waste	Improved Paper Recovery at Franklin Street MRF	\$500,000.00	\$500,000.00	0.00 (delayed)
We Don't Waste	Zero Waste	Food Rescue Program Expansion	\$199,689.00	\$180,474.44	73
Wompost	Zero Waste	Compost Collection Expansion	\$158,185.00	\$131,280.31	229
Perks Deconstruction	Construction & Demolition	Denver's First Deconstruction Warehouse	\$124,900.00	\$70,900.00	55
Resource Central	Construction & Demolition	Improve Drive-Through Drop Offs for C&D Waste	\$443,383.60	\$18,796.80	Report pending
Western Disposal	Construction & Demolition	C&D Sorting and Diversion Center	\$338,084.00	\$168,694.50	Report pending
National Center for Craftsmanship	Construction & Demolition	C&D Material Diversion, Data Collection, and Applied Research	\$157,190.00	\$8,870.00	Report pending
arc Thrift Stores	Zero Waste	arc Thrift Stores Warehouse & Recycling Department Fleet Upgrade	\$247,783.00	\$0.00	Report pending
Boulder County Public Works	Zero Waste	Nederland Transfer Station ReUse Barn	\$46,000.00	\$0.00	Report pending
Jefferson County	Zero Waste	Jefferson County Sustainable Lands and Safer Homes (SLASH) Equipment Purchase	\$458,740.00	\$0.00	Report pending
Denver Botanic Gardens	Organics	Chatfield Farms Composting Project	\$108,430.67	\$0.00	Report pending
Douglas County School District	Organics	DCSD Commercial Composting	\$62,802.00	\$0.00	Report pending

<sup>7</sup> Funds reimbursed through June 15, 2022

<sup>8</sup> Project tons diverted through December 31, 2021 as presented in required reporting

## Appendix 5: FRWD Board of Directors

FRWD Board of Directors as of July 1, 2022

Board Member	Representation	Employer
Vacant	County	Vacant
Tyler Bandemer (vice chair)	Municipality	City of Loveland
Steve Derus	For-Profit	Republic Services
Tay Dunklee	Municipality	City of Denver (Interim appointment)
Miranda Halverson	Nonprofit	arc Thrift Stores
Ben Huff	County	Pueblo County
Barrett Jensen	For-Profit	Waste Connections of Colorado
Laurie Johnson (chair)	For-Profit	5280 Recycling Solutions
Suzanne Jones	Nonprofit	Eco-Cycle
Vacant	State/OEDIT	OEDIT (Office of Economic Development and International Trade)
Sam Morris	Nonprofit	Blue Star Recyclers
Rachel Roussel-Diamond	State/ Sustainability	CDPHE - Sustainability Unit, Division of Environmental Health & Sustainability
David Snapp	State/ Compliance	CDPHE - Solid Waste and Materials Management Program, Hazardous Materials and Waste Management Division

The FRWD statute calls for the board to consist of the following thirteen members appointed by the executive director of the department:

- One member representing the Colorado office of economic development;
- Two members representing the department, one with expertise in sustainability and one with expertise in compliance;
- Two members representing front range municipalities;
- Two members representing front range counties; and
- Six members, balanced equally, to the extent practicable, among representatives of front range nonprofit and for-profit entities engaged in recycling, reuse, or composting activities, including a large waste hauler or landfill operator, a small waste hauler or landfill operator, a publicly owned landfill operator, a composter, a construction and demolition recycler, a materials recovery facility operator, and any other entity that has knowledge in promoting reuse, recycling, or composting.

# Appendix 6: PAYT Letter of Support



**COLORADO**  
Front Range Waste Diversion  
Enterprise Board of Directors  
Department of Public Health & Environment



May 18, 2022

The Colorado State Legislature established the Front Range Waste Diversion Enterprise (FRWD, or “forward”) in 2019 to advance sustainable waste diversion across the Front Range. The FRWD Enterprise consists of the FRWD board of directors (board) and staff from the Colorado Department of Public Health & Environment (CDPHE), and provides grants and technical assistance to Front Range communities—including local governments, businesses, institutions, and other entities engaged in Zero Waste solutions—to increase waste diversion to achieve the following waste diversion goals: 39% by 2026 and 51% by 2036.

In an effort to further FRWD’s mandate, this letter supports local government projects on Colorado’s Front Range that expand waste services policy for residents by offering services such as:

- Expanded recycling and compost collection services, such as weekly collections, or larger recycling and compost bins.
- Volume-based pricing or pay-as-you-throw (PAYT) models for trash collection
- Instant rebate programs to help low-income households pay for collection services

Weekly collection efforts are important because polls (including in Denver) indicate that recycling bins fill up faster than trash bins if collected every other week. The PAYT model has proven to reduce trash going to landfills, and increase recycling and composting. The following are examples of PAYT success stories in our state:

- Loveland (highest residential diversion rate in CO): 58%
- Boulder: 53%
- Longmont: 41%
- According to High Country Conservation, Vail doubled its waste diversion rate because of implementing a PAYT system.

The FRWD enterprise fund is financed by an increase in user fees at Front Range landfills. Collection of these fees began in January 2020 and will increase over the next several years, ultimately providing an estimated \$15,000,000 per year. The board endorses expanded waste service policy projects and supports the use of FRWD funds to move the Front Range toward its waste diversion goals.

Sincerely,

Laurie Johnson  
Chair, FRWD Board of Directors

