

**North Central Texas Council of Governments Environment & Development**  
**FY2022-2023 NCTCOG Solid Waste Grant Application**

**Submitting Entity Name:** Collin County

**Department/Division:** Criminal Investigations Unit (CIU)/Sheriff's Office

**Current Solid Waste Provider:**

Republic: Weston

Waste Connection: Farmersville

**Current Recycling Service Provider:** NA

**Project Contact Name:** Bryan Hardin

**Project Contact Title:** Environmental Investigator/Criminal Investigations Unit (CIU)

**Project Contact's Direct Telephone/Fax:** 972-547-5149

**Email Address:** [bhardin@co.collin.tx.us](mailto:bhardin@co.collin.tx.us)

**Street Address:** 4300 Community Ave. McKinney, TX 75071

**Project Contact Name:** Jay Reim

**Project Contact Title:** Sergeant/Criminal Investigations Unit

**Project Contact's Direct Telephone/Fax:** 972-547-5161

**Email Address:** [jreim@collincountytx.gov](mailto:jreim@collincountytx.gov)

**Street Address:** 4300 Community Ave. McKinney, TX 75071

**Primary Financial Contact – Authorized Representative:** Linda Riggs

**Financial Contact Title:** County Auditor

**Financial Contact's Direct Telephone/Fax:** 972-548-4643/4696

**Email Address:** [lriggs@co.collin.tx.us](mailto:lriggs@co.collin.tx.us)

**Street Address:** 2300 Bloomdale Road, McKinney, TX 75071

**Type of Entity:** County

**Grant Project Information: Project Title:** Reducing Illegal Dumping in Collin County

**Project Abstract:** Provide a short description (3 to 4 sentences maximum) of the proposed project here.

The intent of this project is to reduce illegal dumping. Collin County Criminal Investigation Unit (CIU) will take lead in making sure this problem with illegal dumping is done. The CIU is seeking to install fifteen (15) Browning Patriot Game Cameras, along with one (1) Milwaukee/Compact Drill, Driver Kit with Charger and Case for Game Camera, one (1) Nikon D850 DSLR Camera, one (1) ATN NVM14-4 Night Vision Monocular with Goggle Kit (for convert night operations of illegal activities), one (1) ATN Thermal BINOX/Thermal Binocular and one (1) multirae systems mulirae pro/monitor sensor to be requested with the grant funding and distributed throughout various places in Collin County and for use to detect what is found to be hazard and/or toxic substance. These tools will heighten CIU's ability to monitor and observe known illegal dumping locations. The cameras will increase the ability to monitor, investigate, prosecute, and reduce the amount of illegal activity occurring in Collin County.

**Which TCEQ funding category does this program fall under?**

**Local Enforcement**

Litter and Illegal Dumping Programs

Educational and Training Project

Source Reduction and Recycling

Household Hazardous Waste

Citizens' Collection Stations and "Small" Transfer Stations

Local Solid Waste Management Plans

Technical Studies with a regional scope/impact

**Which goal area from Planning for Sustainable Materials Management in North Central Texas does this program fall under?**

Support Materials Management/Education and Training

Promote Public and Private Sector Relationships

**Promote Creation and Expansion of Waste Management Programs**

Measure Regional Waste Reduction Efforts

Support and Encourage Innovative Technology for Other Waste

**Grant Narrative:** Provide a detailed description of the proposed project, including the funding needs, project impacts and benefits, and how this proposed project will advance materials management. (500 words maximum)

Collin County has grown rapidly to an estimated 1,064,465 as stated in the U.S. Census Bureau. With that being said, Collin County Sheriff's Office/Criminal Investigation Unit covers 841 square feet miles and an estimated service population of over 80,000 citizens across the county's unincorporated areas (half of which are rural and farmlands), and five municipalities without police departments.

A lot of the illegal dumping is in these areas and has become a serious problem. When not addressed, illegal dumpsites attract additional dumping. Illegal dumping poses environmental and health risk, safety problems and

negatively impacts economic growth. Plus it is a crime. The rural areas have chronic illegal dumping sites, where everything from trash bags to building waste and refrigerators to tires are discarded. These items are dumped along roadsides, ditches and fields. The environment suffers because toxic pollutants are released into streams and can harm wildlife. Trash not only is unsightly and unattractive but also harbors rodents and becomes breeding grounds for insects. Businesses within the rural area and surroundings suffer because extra trash pickups can cost several hundred of dollars each month. Farmers also suffer because fields and crops are destroyed; livestock is disturbed or die all because of the illegal dumping and what can be found in the garbage. Our main concern will be those County roads and property that you would think no one travels but has been highly used to illegally dump trash, which causes a public health and safety concern as well as an issue. From October of 2021 to present, some of these sites have costs the county and its residents more than \$16,000 to dump over 85,000 pounds at the landfill (from 121 different locations) hazardous wastes (which does not include sites checked totaling 365).

The CIU is seeking to install fifteen Browning Patriot Game Cameras, along with one (1) Milwaukee/Compact Drill, Driver Kit with Charger and Case for Game Camera, one (1) Nikon D850 DSLR Camera, one (1) ATN NVM14-4 Night Vision Monocular with Goggle Kit (for convert night operations of illegal activities), one (1) ATN Thermal BINOX/Thermal Binocular and one (1) multirae systems mulirae pro/monitor sensor to be requested with the grant funding and placed in the major sites where illegal dumping is occurring consistently. These cameras will heighten CIU's ability to monitor and observe known illegal dumping locations. The cameras will also increase the ability to monitor, investigate, prosecute, and reduce the amount of illegal activity occurring in Collin County. The thermal binoculars and the sensors to determine hazardous and/or toxic substances will also be of much need assistance to us when monitoring and investigating.

Camera surveillance will prove to be extremely effective in diminishing the incidents of illegal dumping. The cameras that will be purchased will allow us to remotely observe illegal dumpers per day. These cameras (state of the art) capable of withstanding temperatures and capturing images at night can be discreetly placed at known dumping sites in order to bring down the number of illegal litterers.

Collin County will also inform the community of the costs and effects of illegal dumping by standard outreach tools such as the following but not limited to brochures, pamphlets, direct mail and presentations if requested or when investigating, and/or when processing citations/fines. It is anticipated that judges will order those found guilty to repay expenses. These funds will be used to continue the program as long as possible.

A reduction in repeat/continued illegal dumping are anticipated outcomes. Measurement and reporting will be by the following but not limited to evidence/proof from cameras, tracking complaints, tracking enforcement actions/fines given to illegal dumpers (collected number of offenders identified), warrants served, cases prosecuted and any outreach that might be requested or needed as well as quarterly and end of the year reports to NCTCOG and TCEQ.

Implementing this program will reduce illegal dumping by 80%. Collin County will undoubtedly benefit from this program, as we are focused on increasing the mission which is to protect and enhance the quality of life, health and safety and welfare of our residents as well as ensuring the future health and safety of our county which will show a great impact for all.

**Regional Collaborative Project:** This section is only required for applicants applying for a Regional Collaborative Project with three or more eligible entities as partners.

**Partners (Minimum of Three):** List the partner entities for the Regional Collaborative project.

Partnerships and Regional Impacts: In this section, provide a detailed description of how your entity intends to partner with other entities and what the regional impacts of the proposed project would be. You will also be required

to attach the Letters of Support from each of the participating entities to be considered for funding. (250 words maximum).

**Private Industry Notification:**

**For the project types listed below, this section must be complete to be considered for funding. Failure to complete this section will result in immediate disqualification for consideration of funds.** Please reference the [Grant Application Guidelines](#) for additional information on how to complete this section.

This section is applicable only to the following grant categories:

- Source Reduction and Recycling
- Citizens' Collection Stations and "Small" Registered Transfer Stations
- A demonstration project under the Education and Training project category.

According to state law, a project or service funded under this program must promote cooperation between public and private entities (by definition includes non-profit organizations) and may not be otherwise readily available or create a competitive advantage over a private industry (by definition includes non-profit organizations) that provides recycling or solid waste services. If the proposed project provides a service, in the spaces below, list all known private service providers in the affected geographic area known to provide similar or related services and summarize your discussion with the providers. You must comply with the notification requirements. Please attach additional pages if needed.

**Statement of Private Sector Notification:**

Private Sector Providers Contacted	Name and Position	Date Notified	Method of Contact
NA			

Summaries of Discussions with Private Industry:

In this section, summarize the discussion with the private sector providers.

**Budget:**

In this section, itemize each requested budget category for the proposed project. Supplemental documentation is required, including quotes, estimates, and images of requested items to the application to assist the Grant Selection Subcommittee score the proposed project. Please reference the [Grant Application Guidelines](#) to review what types of supplemental documentation are required and the scoring sheet for additional information on how this section will be scored. Additional lines can be added to the itemized budgets, if necessary. Please note: each line item must equal or exceed \$500.00 to be an eligible expense.

<b>Budget Categories</b>	<b>Total Funding Request Per Category</b>
1. Equipment (unit cost of \$5,000 or more)	\$0
2. Construction	\$0
3. Contractual (other than for Construction)	\$0
4. Other Expenses	\$27,707.81
<b>TOTAL GRANT FUNDS REQUESTED</b>	<b>\$27,707.81</b>

**1. Equipment (Unit Price of \$5,000 or more)**

Item/Description	Purpose	Quantity	Unit Cost	Total Amount Requested
NA				
Total Equipment Budget				

**2. Construction**

Description	Purpose	Quantity	Unit Cost	Total Amount Requested
NA			\$	\$
			\$	\$
Total Construction Budget				\$

**3. Contractual (other than for construction)**

Description	Purpose	Quantity	Unit Cost	Total Amount Requested
NA			\$	\$
			\$	\$
Total Contractual Budget				\$

#### 4. Other Expenses

Item/Description	Purpose	Quantity	Unit Cost	Total Amount Requested
Browning Patriot Game Cameras	To be used to capture illegal dumpers. \$199.99 each x 15 = \$2,985.00	15	\$199.99	\$2999.85
Milwaukee/Compact Drill, Driver Kit with Charger and Case for Game Cameras	One (1) Milwaukee M18 18-Volt Lithium-Ion Brushless Cordless 1/2 in. Compact Drill/Driver Kit with (2) 2.0 Ah Batteries, Charger and Case for installation of game cams. \$199.00 Home Depot	1	\$199.99	\$199.99
Nikon D850 DSLR Camera	To be used to photograph and video record dumpsites day or night in an effort to present to grand jury hearings/presentations and jury trials. The package includes: D850 camera-\$2,996.95, AF-S NIKKOR 24-120mm f4G ED VR Lens-\$1,096.95, 128GB Professional 1667x SDXC UHS-II Memory Card-\$49.95, VING V860IIIN TTL Li-Ion Flash Kit for Nikon Camera-\$229.00, 1535 Air Case with Yellow Dividers – Black-\$309.95 . Total = \$4,682.80	1	\$4,682.80	\$4,682.80
ATN NVM PS15-4 Night Vision Monocular with Goggle Kit	To be used to conduct nighttime surveillance at dump sites to view suspects illegally dumping. The Night Vision Monocular plus Goggle Kit Total=\$7,797.00	1	\$7,797.00	\$7,797.00
ATN Thermal BINOX	One (1) ATN Thermal BINOX 4T 640 2.5X-25X for viewing and recording pollution in water bodies and containers suspected of leaking toxic substances. Thermal Binocular with Laser range finder, Full HD Video rec, WiFi, GPS, Smooth zoom and Smartphone controlling thru iOS or Android Apps Total: \$4,735.00	1	\$4,735.00	\$4,735.00
MULTIRAE SYSTEMS MULTIRAE PRO	One (1) MULTIRAE SYSTEMS MULTIRAE PRO for detecting hazardous and toxic substances in the air along with a radiation sensor. MCB3-A3C1REZ-020-RAE SYSTEMS MULTIRAE PRO - (PID, ppb, 10.6 eV / LEL / CO+H2S / O2 / Gamma) MultiRAE Pro (PGM-6248), Non-Wireless, Li-Ion, Monitor only 1 for \$6,724.23 58L - 100PPM ISOBUTYLENE, AIR- 1 for \$105.91 58L - CARBON MONOXIDE (CO) 50PPM, 1 for \$143.29 HYDROGEN SULFIDE (H2S) 10PPM, LEL 50% AND O2 18% 1 143.29 143.29 90412867 DEMAND FLOW REGULATOR W/ C10 CONNECTION. EQUIPPED WITH A 0-1500PSI Gauge- 1 for \$256.99 Shipping and Handling- \$62.75 Total: \$7,293.17 from FarrWest Environmental.	1	\$7,293.17	\$7,293.17
<b>Total Budget</b>				<b>\$27,707.81</b>

## Applicant's Match

Amount: \$ 0

Do you have a preference on which fiscal year you receive the funding?

This FY

Next FY

No preference

### Timeline:

In this section, provide a detailed description of the proposed project's timeline, including specific activities and the responsible party for each. Please reference the grant application portal for an example project timeline. For information on how this section will be scored please review the [Grant Application Guidelines](#). Additional rows can be added as necessary.

Activity	Responsible Party	Estimated Start Date	Estimated Completion Date	Additional Information
Work plan	Deputy Bryan Hardin/Sgt. Jay Reim	03/02/2022	09/30/2023	Work on gathering all information needed in order to execute program in a timely manner
Take to Commissioners Court	Deputy Bryan Hardin/Sgt. Jay Reim	02/28/2022	05/24/2022	Approval to apply Signatures: Resolution/Ct Order
Presentation to NCTCOG	Deputy Bryan Hardin Present: Sgt. Jay Reim/Pat Skipper	06/01/2022	06/10/2022	PowerPoint Presentation of Collin County Program
Take to Commissioners Court	Deputy Bryan Hardin/Sgt. Jay Reim	07/2022	07/2022	Approval of budget
Order Equipment	Deputy Bryan Hardin	07/2022	08/2022	Equipment check/Work with Purchasing Dept.
Install/mount equipment at each site	Deputy Bryan Hardin/Sgt. Jay Reim	09/01/2022	10/01/2022	Install cameras/check for accuracy
Report	Bryan Hardin/ Jay Reim	10/01/2022	09/30/2023	Report Quarterly to NCTCOG. Report Yearly to NCTCOG/TCEQ.

