

Collin County Environmental Enforcement



SOLID WASTE PROGRAMS 2012 PROGRESS REPORT

Common Illegal Dumpsites















The Issue – Illegal Dumping



- **Costs taxpayers hundreds of thousands of dollars in clean up costs and lost man-hours**
- **Some dumpsites contain hazardous material and toxic waste**
- **Impedes PW employees from accomplishing their primary job functions**
- **Eyesore – diminishes beauty of our County**

Collin County Solid Waste Initiatives



- **PW/CSCD – Illegal Dumpsite Cleanup**
- **PW/SO Inmate Program**
- **Recycling Centers**
- **Collin Co. Citizen Trash Drop Off Day**
- **Environmental Enforcement Program**
- **PW/Fire Marshal – Nuisance Abatement**
- **Pending Grants**

CSCD/Inmate



- In FY2009, the Sheriff's Office and Public Works launched a new program utilizing CSCD and Inmate labor for various tasks including Dump Site Restoration on land and...



Sister Grove Creek



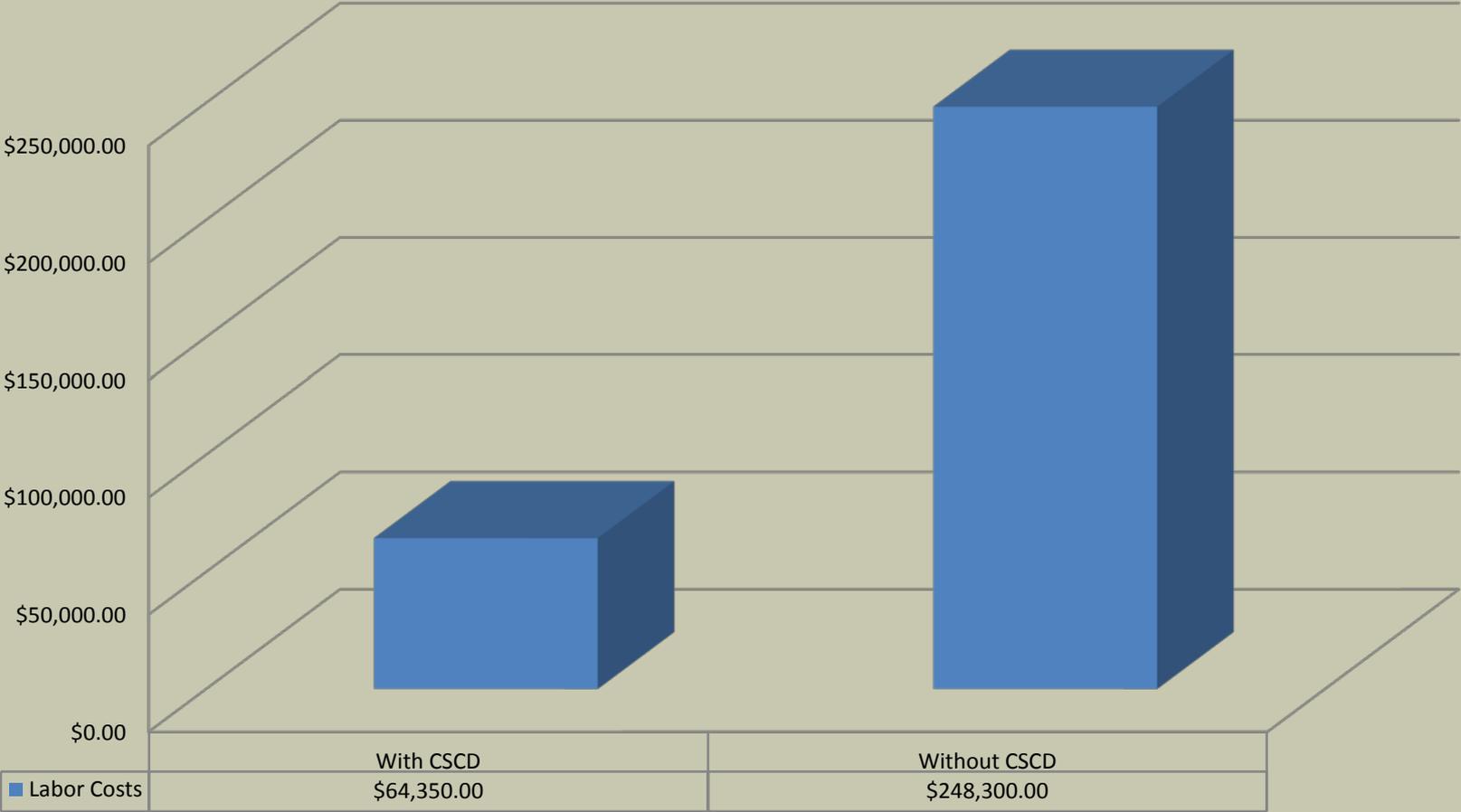
- ...in our waterways. Here, CSCD cleans Sister Grove Creek under CR466. Numerous tires and other debris had partially blocked the water flow. This trash can contaminate the water which flows to Lake Lavon



Sister Grove Creek



FY2011 Cost Comparison

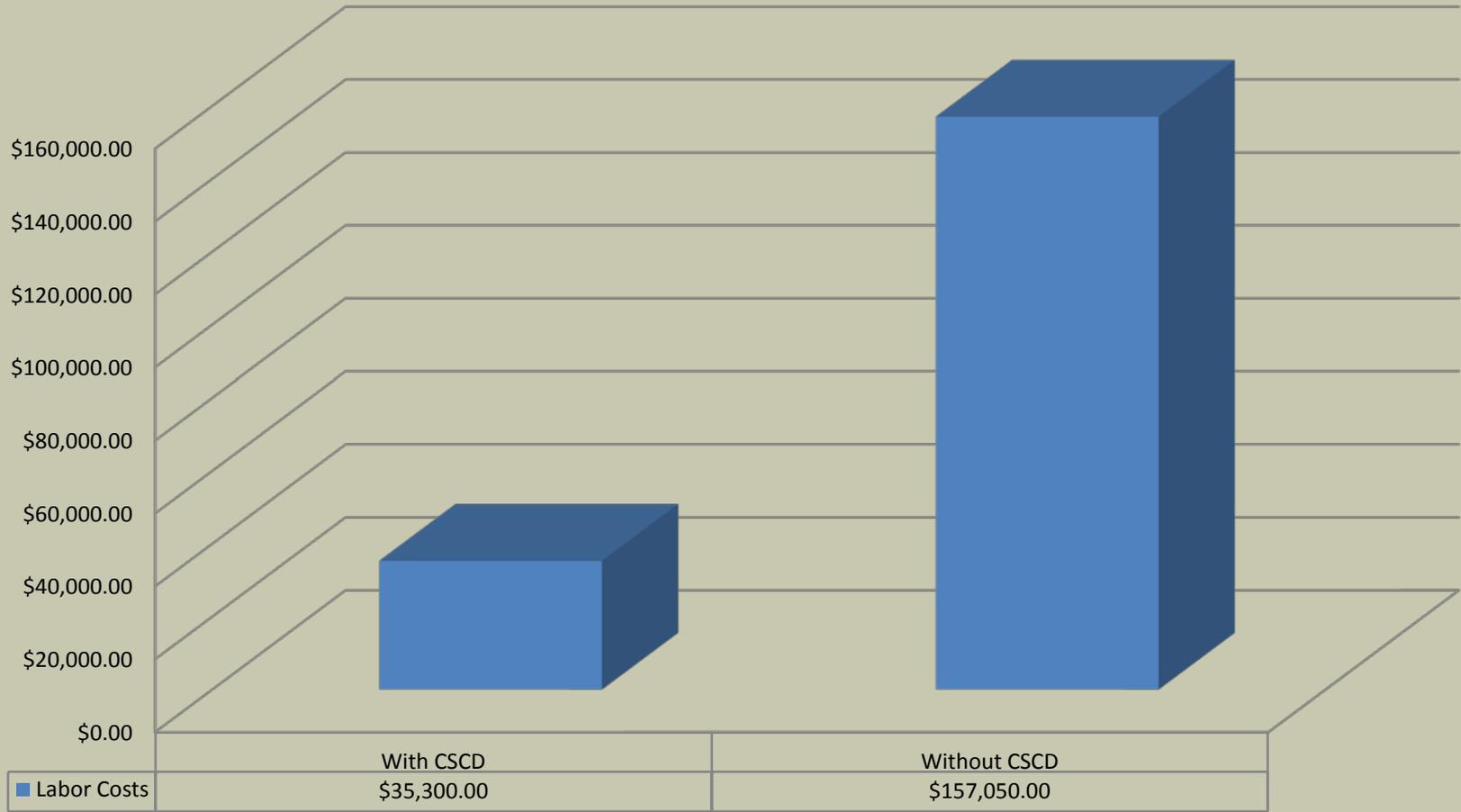


CSCD Cost Savings



- **As the graph shows, Public Works saved \$183,950 in FY2011 with CSCD labor**

FY2012 YTD Cost Comparison



CSCD Cost Savings



- As the graph shows, Public Works has saved \$121,750 through six months on FY2012
- Projecting this trend over the complete year reveals an annual savings of \$243,500 with CSCD labor

Recycle Bins

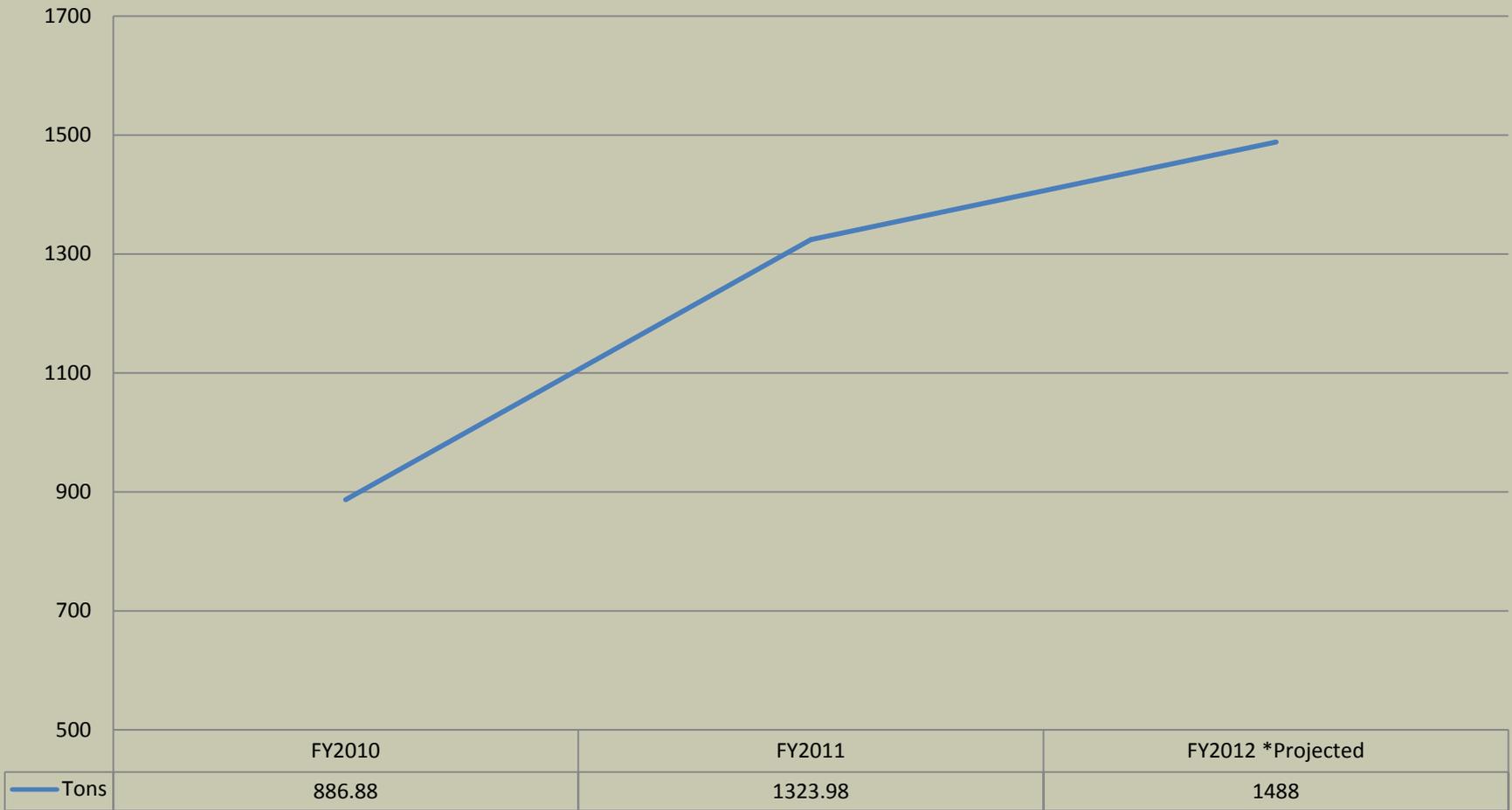


- **8 Recycle Bins throughout the County**
 - Melissa
 - Branch (2)
 - Nevada
 - Copeville
 - Weston
 - Lucas (2) – pay for their own recycling
- **Public Works monitors all 8 sites and funds 6**

Clean/Contaminated



Recycled Material



Monthly Citizen Trash Drop Off Day



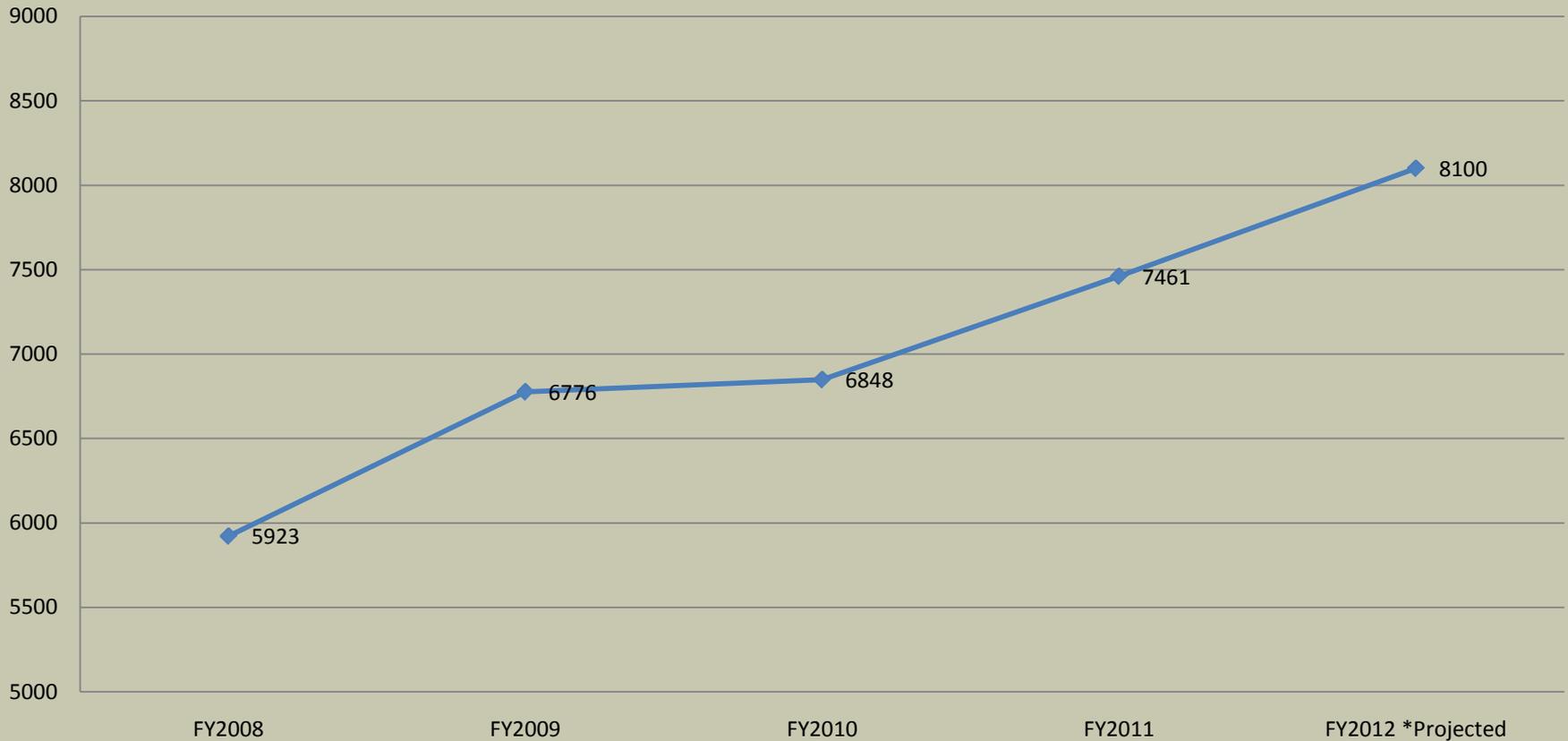
Monthly Citizen Trash Drop Off Day



Increased traffic at “First Saturday”



Trucks



Tire Shark



- Road & Bridge staff fabricate a custom tire shredder in August 2009
- By cutting the tires in half, the County saves thousands of dollars in disposal fees at the landfill



780 tires last week



Tire Shark Figures



Tires halved since August 2009	17,232
NTMWD Fee per whole tire	<u>x \$5</u>
Disposal Cost w/o Tire Shark	\$86,160
Actual Disposal Cost (\$31/Ton)	<u>\$5,341.92</u>
Total Tire Shark Savings	\$80,818

Nuisance Abatement



- Working through the Fire Marshal's Office, Public Works will clean and restore a private property parcel at the center of a nuisance abatement investigation
- Public Works has facilitated a number of these nuisance abatements which includes
 - ✦ Estimating clean up and disposal costs
 - ✦ Actual clean up and disposal
 - ✦ Documenting all resources used to address the clean up, i.e., equipment expenses, employee hours, fuel, and landfill costs

CR547



Post Restoration



Pre FY2009



- The County's approach was reactionary in nature
- Public Works employees cleaned illegal dump sites exclusively before 2009
- Dump sites were addressed on 30 and 90 day cycle

Proactive Enforcement – FY2010



- The County transitions to a Prevention focused approach from a reactionary one
- County officials agree upon and implement new strategy to confront the blight of illegal dumping
- The new initiative involves a collaboration of several County departments and is dedicated to preventing illegal dumping throughout the County
- Deputy Lee Howe is chosen to spearhead the County's new effort

Components of New Initiative



- **Equipment and Tools**
- **Continuing Education and Training**
- **Community Outreach**
- **Judicial System Coordination**
- **Community Education**

Equipment



- Sheriff's Office and Public Works provide an unmarked Ford Expedition to investigate illegal dumping



Tools



- 2 Motion activated, night vision cameras were purchased with grant funds in 2010 and secured to trees near suspected dump sites to document offenders.



Continuing Education and Training



- Select staff attend pertinent seminars and classes to remain informed of related laws and policies
- Deputy Howe is a member of the Texas Environmental Law Enforcement Association
- 9 Public Works employees are TCLEOSE certified



Community Outreach



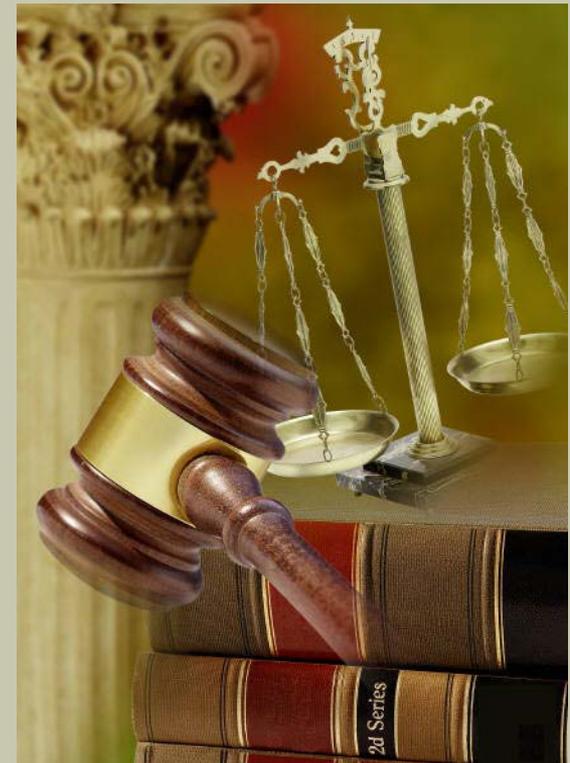
- Collin County Environmental Enforcement Team (Sheriff's Office and Public Works) participates in events designed to introduce Environmental topics to schoolchildren



Judicial System Coordination



- Sheriff's Office and Public Works staff brief Justice representatives to promote awareness and cooperation



Community Education



- Collin County aired a highly successful PSA in March/April 2011 with grant funds from NCTCOG. An estimated 1,348,000 households were reached in the metroplex.



Website



- A page is dedicated to Illegal Dumping on the County's website which describes the issue, provides links to our PSA's on YouTube and lists the 24 Hour Hotline to report illegal dumping



Search: GO Local Weather 73°F

Collin County Texas
The Jewel of North Texas.

Doing Business | Living & Visiting | Government | Online Services | County Directory

Home | Departments | Public Works | Illegal Dumping

Illegal Dumping

The Illegal Dumping Problem and Why You Should Care

Did you know that every year Public Works devotes 200 hours a week finding and removing over 380 illegal dump sites around the county?

These dumps are not only unsightly, but also pose serious public health and environmental safety hazards to all of us. They contain everything from common household and yard trash to appliances, furniture and other large items, to hazardous chemical and biological waste, where they can leach into the soil and water table.

Oh, and by the way... and it's against the law.

Check Out Our Public Service Announcements About Illegal Dumping!

Map of Illegal Dump Sites (click to enlarge)

TO REPORT ILLEGAL DUMPING, CALL (972) 547-5350 (24-HOUR HOTLINE)

Call Public Works' general office number at (972) 548-3700 to reach:
Solid Waste Officer: Gary Enna
Illegal Dumping Enforcement: Deputy Lee Howe

Collin County Public Works
700 A. Wilmeth Rd
McKinney, TX 75069
Email: pubworks@collincountytx.gov
Phone (Local): 972-548-3700
Phone (Metro): 972-424-1460
ext. 3700
Fax: 972-548-3754

Collin County Public Works [map](#)

50
Waste per Year

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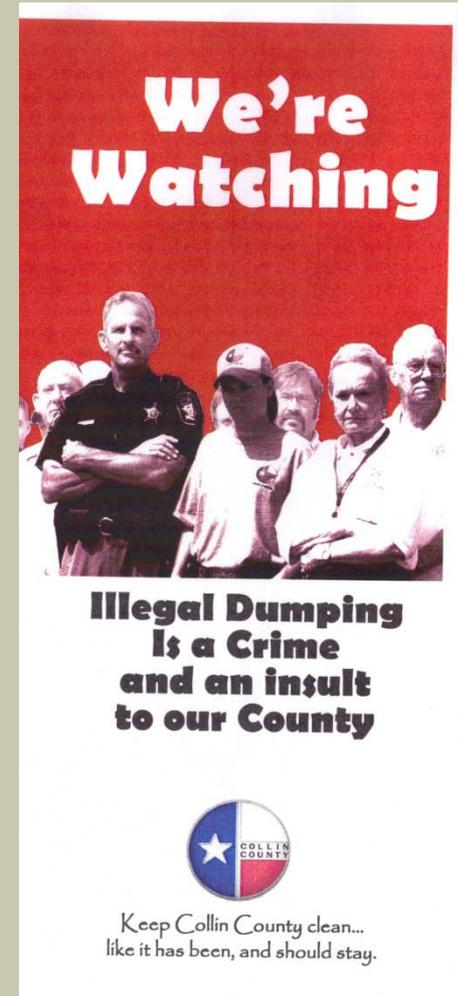
Locations | Sitemap | Webmail | Privacy & Accessibility | En Español | Website Feedback

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Pamphlets



- Collin County distributes informational brochures at various events and community outreach presentations



Program Benefits



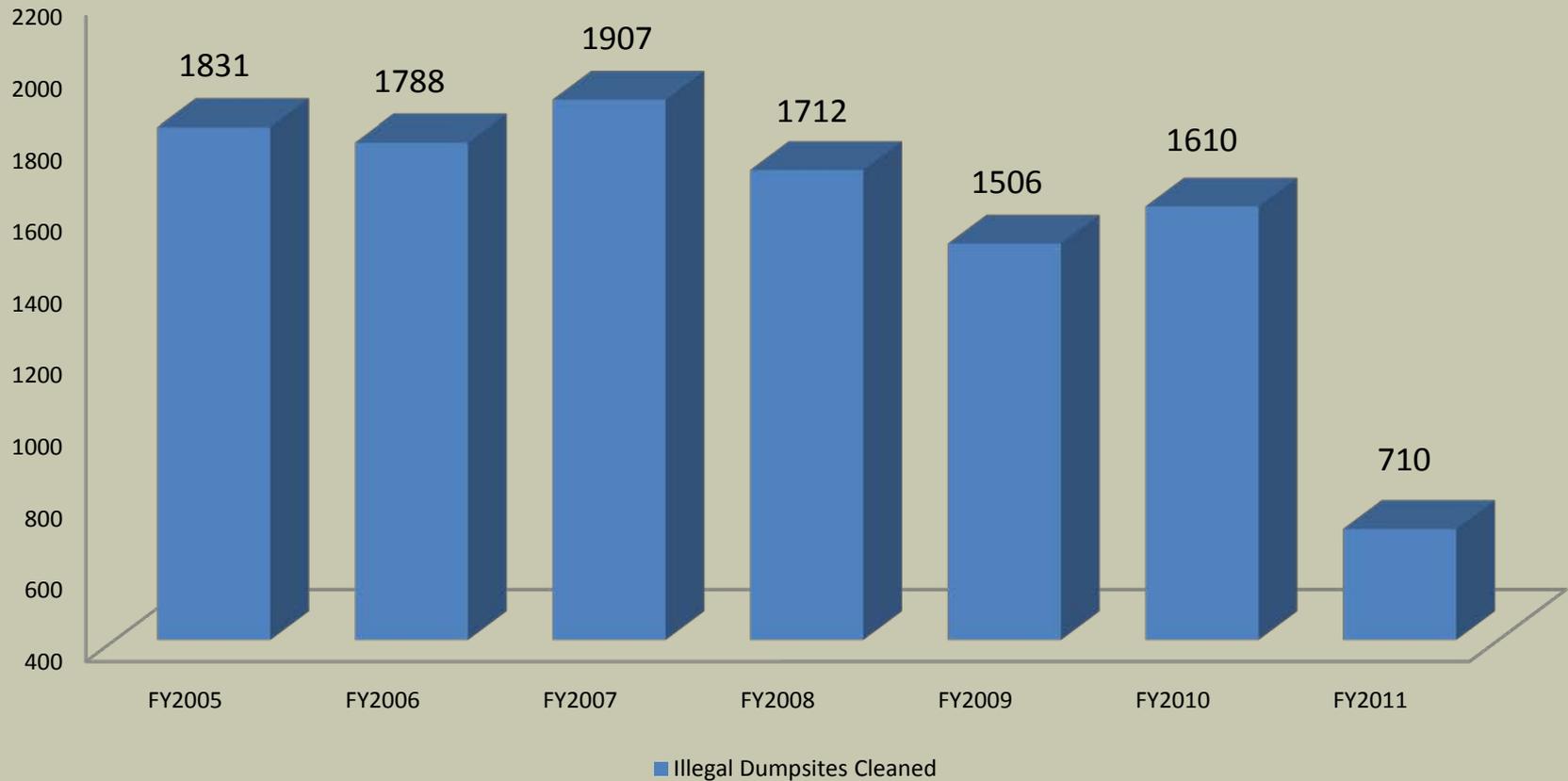
- Road & Bridge personnel previously occupied with illegal dumpsite cleanup can be reassigned to core Road & Bridge Maintenance functions
- Significant savings realized by County taxpayers
- Positive community reaction
- Increased cleanup of illegal dumpsites

Environmental Deputy Activity



	FY2010	FY2011	FTD2012	Total
Cases Initiated	85	65	34	184
Cases Filed	67	72	34	173
Sites Checked	376	281	186	843
Contacts Made	844	780	379	2003
Follow Up Investigations	396	289	121	806
Warning Citations	81	37	21	139
JP Citations	77	65	34	176
Sites referred for Clean Up	193	139	119	451
Weight Cleaned up (lbs)	19791	7295	2555	29641
Sites Cleaned/Warnings	44	26	13	83
Recovery Costs	\$137.50	\$5,249.30	\$2,357.50	\$7,744.30

Illegal Dumpsites Cleaned



EE Program Impact



- A couple months into the third year of the program, PW is beginning to realize both a substantial savings and a dramatic decrease in the number of illegal dumpsites
- The program has resulted in a cleaner environment and R&B staff returning to their primary job functions

Cost Comparison



- **The County inaugurated the Environmental Enforcement program with an initial first year investment of \$140,000**
- **Public Works calculated the cost to clean the average dumpsite as \$454 which includes labor, equipment and disposal**

Return on Investment



- A decline of 900 illegal dumpsites after the first full year of operation
- Minus the initial investment, Collin County realizes a monetary savings of \$268,000

FY 2011 Aggregate Savings



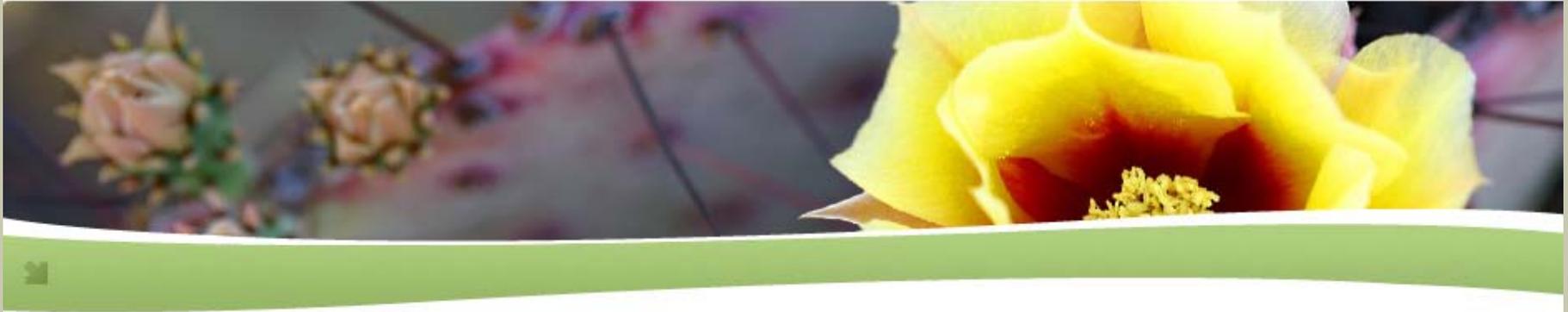
Dumpsite Reduction Savings	\$268,000
Annual CSCD Labor Savings	\$183,950
Fines/Recovery Costs	\$5,249
Total Savings	\$457,199

Redeployment of Resources



- **Additionally, Public Works realizes a tangible benefit by having R&B staff free to fulfill their core duties rather than picking up trash**

Recognition



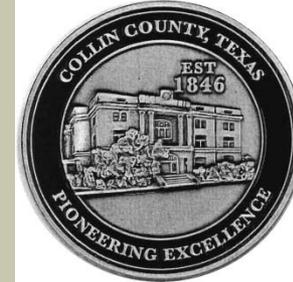
- Deputy Howe won the 2012 “Ed Davis Litter Law Enforcement” award, part of the Keep Texas Beautiful annual awards recognizing exceptional environmental impact



Departmental Cooperation



- Richard Doan receives the “Pioneering Excellence” medallion for his role in preventing illegal dumping on CR588 and alerting the authorities.



The Future (Additional Resources)



- **Billboards**
- **Wireless Surveillance Cameras**
- **Modern Desktop Computer for Deputy Howe**
- **Spanish Language Pamphlets**
- **Network airtime to broadcast the PSA in 2012**
- **Additional Environmental Deputy**
- **AH-64 Apache attack helicopter DAI (Direct Action Interdiction) armed with M230 Chain Guns, Hellfire missiles and Hydra 70 rocket pods**

FY2013 Illegal Dumping Deterrence

