Permit No.: STW / TXR040278/ RP

Phase II (Small) MS4 Annual Report Form
TPDES General Permit No. TXR040000

A. General Information

1. Permit No. TXR040278 (CN60063; RN105577878) Annual Report Period: August 13, 2013 to December 31, 2014 (Year 1)

   Name of MS4 / Permittee: City of Rockwall, Texas MS4 Operator Level: 2

   Contact Name: Timothy M. Tumulty, P.E. Telephone Number: 972-771-7746

   Mailing Address: Engineering Department, City of Rockwall, TX; 385 S. Goliad; Rockwall, TX 75087

   E-mail Address: ttumulty@rockwall.com

2. Is the named permittee relying on another entity/ies to satisfy some of its permit obligations? ____ Yes __X__ No

   If Yes, provide the name(s) of other entity/ies and an explanation of their responsibilities (add more spaces or pages if needed):

   Name and Explanation: _____

   _____

3. Is the named permittee sharing a SWMP with other entities? _____ Yes __X__ No

   If "Yes," list all associated permit numbers and permittee names (add additional spaces or pages if needed):

   Permit Number: _____ Permittee: _____

4. Is this a system-wide annual report including information for all permittees? _____ Yes __X__ No

Explanation, if any _____

_____

_____

5. Has a copy of this annual report been submitted to the TCEQ Regional Office? __X__ Yes ___ No

B. SWMP Modifications and Additional Information.

Include a brief explanation if you check "Yes" to any of the following statements.

1. a. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review. _____ Yes __X__ No

b. If Yes to the above, has the TCEQ already approved the original SWMP? _____ Yes ____ No

c. If Yes to the above, indicate whether an NOC (or letter) has been submitted to document the changes to the approved SWMP as required by the general permit. (Note that if an NOC is required, it must be submitted to the address shown on the NOC. Do not attach the original NOC form to this report.) _____ Yes ____ No

2. The MS4 has annexed lands since obtaining permit coverage. ___ Yes ____X__ No

3. A receiving water body is newly listed as impaired or a TMDL has been established. _____ Yes __X__ No

4. The MS4 has conducted analytical monitoring of storm water quality. _____ Yes __X__ No

Explain below or attach a summary to submit along with any monitoring data used to evaluate the success of the SWMP at reducing pollutants to the maximum extent practicable. Be sure to include a discussion of results.

C. Narrative Provisions.

1. Provide information on the status of complying with permit conditions:

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		We are following the permit.
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		We are tracking the items as required by the permit (as possible)
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		

2. Provide a general assessment of the appropriateness of the selected BMPs:

   Has the permittee determined that any of the selected BMPs are not appropriate for reducing the discharge of pollutants in storm water? _____ Yes __X__ No

   Provide explanation:
   At this time all the BMPs seem to be appropriate.

3. Describe progress towards reducing the discharge of pollutants to the maximum extent practicable (MEP). Summarize any information used (such as monitoring data) to evaluate reductions in the discharge of pollutants. Use a narrative description or table as appropriate:

MCM	BMP	Parameter	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (Yes / No / Explain)

Or, provide explanation below:

The construction related items appear to be working. The public information program has raised awareness about hazardous material (very successful household hazardous waste day). The website has helped with getting information to residents as well as visitors.

4. Provide a general evaluation of the program's progress, including any obstacles or challenges encountered in implementing BMPs, meeting the program's schedule, etc.:

   The program is going well.

5. Provide the number of construction activities (other than those where the permittee was the operator) that occurred within the regulated area as indicated via notices of intent or site notices: 28

6. Does the permittee utilize the 7th MCM related to construction? _____ Yes __X__ No

   If Yes, then provide the following information:

   a. The number of municipal construction activities authorized under this general permit: _____

   b. The total number of acres disturbed for municipal construction projects: _____

   Though the 7th MCM is optional, this must be requested on the NOI or on a NOC and approved by the TCEQ.

7. Describe any proposed changes to the SWMP in the coming reporting year.

   None

8. Describe any activities planned for the next permit year / reporting cycle.

   a. Complete all of our Year 2 BMPs per SWMP.

   b. Conduct two outreach programs through materials being handed out at City/County activities and through the water bill

   c. Complete outlines for public education for industrial, commercial, and municipal employees

   d. Conduct Hazardous Waste Day on April 18, 2015

   e. Install the first set of inlet markers on 25% of the inlets in the City (year ahead of schedule)

D. Storm Water Management Program Status. Provide the status of every BMP and measurable goal listed in the SWMP, as described in the instructions. Each MCM, but not necessarily each BMP, must include the measurable goals described in the SWMP. For a shared SWMP, include the name of the responsible MS4 operator(s) in the "BMP" column. *(Though an MS4 is not required to implement BMPs until the initial SWMP is approved by the TCEQ, the MS4's initial annual report should include a description of what has been done to date, even if the SWMP has not yet been approved. The MS4 will receive credit for all BMPs implemented prior to and during the first permit year if they are described in the initial annual report.)*

TABLE 1 – BMP Status

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
1. Public Education and Outreach	1.1 Compliance with state and local notice requirements when implementing a public involvement/participation program	Provide public notice		8-2014	Provided public notice in the Rockwall County News on 8-14-2014 Posted new SWMP on City website Complete
	1.2 Support and Participate in the Regional Storm Water Management PETF by utilizing the NCTCOG educational materials for public outreach activities	Conducted 2 outreach campaigns.		11-2013	"Cease the Grease" flyer was distributed to 2,569 people via e-news on 11-20-2013 and 8-22-2014 "Cease the Grease" flyer was mailed to 14,800 households as a water bill insert in 09-2014. See appendix Used City cable channel and City website to publicize grease and grass clipping disposal. Complete
	1.3 Promote Texas SmartScape to Homeowners or other group(s) of the population.	Conduct two outreach campaigns.		Year 1	Link to the SmartScape website on City website. Complete. Participated with Rockwall County "Save your landscape for better days" Conference on 8-9-2014. See appendix
	1.3 Promote Texas SmartScape to Homeowners or other group(s) of the population.	Review the current landscape ordinance for commercial projects to utilize native or adaptive plants.		Year 1	Current landscape ordinance was reviewed and was determined to not need modification. Complete

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
1. Public Education and Outreach	1.4 Industrial and Commercial Education	Develop an outline of the information to be communicated for a 5 year period		Year 1	In progress
	1.5. Construction/Post-Construction Handout	City's "Construction Notes" reviewed and distribute at pre-construction meetings		Year 1	Construction notes were reviewed and no revisions are needed. Construction notes were distributed to contractors in the pre-con meeting. Complete
	1.6 City Storm Water Webpage via NCTCOG	Utilize NCTCOG tracking number of hits		Year 1	Rockwall had 612 sessions up 303 from last year. See appendix NCTCOG Public Education Activity Report On-going.
	1.7 Education for Elected Officials	Provide information to City Council on storm water requirements and City's MS4 program		Year 1	Information given to City Council 4-4-2014 On-going every year
	1.8 Municipal Employee Training	Develop an outline of the information to be communicated for a 5 yr period		Year 1	In progress
	1.8 Municipal Employee Training	Training received by City employees		Year 1	52 employees watched Storm Water Pollution Prevention DVD 9-18-2013.
	1.8 Municipal Employee Training	Send Engineering Department personnel to NCTCOG Storm Water Prevention Course.		Year 1	Sent two in Year 1. See attachments for certificates. On-going.

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
1. Public Education and Outreach	1.9 Storm Inlet Markers	Storm inlet marker program was developed and purchased inlet markers		Year 1	The City plans to install 25% of the City's inlet markers every year. City has 3,377 inlets and purchased 25% (see attachment) of the markers for year 1. 25% of the inlet markers will be installed each year starting in Year 2. to Year 5.-Complete. See appendix
	1.9 Storm Inlet Markers	Install inlet markers	Revised	Year 2	25% of the inlet markers will be installed on City inlets. Ahead of schedule
	1.10 Illicit Discharge	Provide the public with a means to report discharge activities		Year 1	Developed a reporting method using website/CRM Trak. Nine tips were received and addressed from website…see appendix. On-going
2. Illicit Discharge Detection and Elimination	2.1. Storm Sewer Map	Update Storm Sewer Map with new outfalls		Year 1	Updated Storm Sewer Outfall Map with new outfalls constructed within Year 1…see attached map. Complete
	2.2 Municipal Employee Training (Field Staff)	Send Engineering Department personnel to NCTCOG Storm Water Prevention Course.		Year 1	Sent two in Year 1. See appendix for certificates. Complete
	2.2 Municipal Employee Training (Field Staff)	Obtain Storm Water Inspection Certificate for an engineering inspector.	New	Year 1	Inspector received Certification in Storm Water Inspection 4-2014. Complete. See appendix
	2.2 Municipal Employee Training (Field Staff)	Develop an outline of the information to be communicated for a 5 yr period		Year 1	In progress

MCM(s)	BMP	Milestones of Year	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
3. Illicit Discharge Detection and Elimination	2.3 Industrial/Commercial Storm Water Quality Information	Develop an outline of the information to be communicated for a 5 yr period		Year 1	In progress
	2.4. Illicit Discharge Ordinance	No changes to City ordinance is needed at this time.		Year 1	City ordinance relating to illicit discharges were reviewed and determined to not need any revision. Complete.
	2.5 Detecting and Removing Illicit Discharges	No changes to City ordinance is needed at this time.		Year 1	City ordinance relating to illicit discharges were reviewed and determined to not need any revision. Complete.
	2.6 Identify Allowable Non-storm Water Discharges	Reviewed the impact of the current allowable non-storm water discharges in the general permit and determined that no additions or revisions were needed.		Year 1	No revisions to allowable discharges. Complete.
	2.6 Identify Allowable Non-storm Water Discharges	Posted the Storm Water Management Program document on web page (included the allowable non-storm sewer discharges).		Year 1	The list of allowable non-storm water discharges is included in our Storm Water Management Program document. Complete.
	2.7 Illicit Discharge/Dumping Response Plan	Direct the public to report any illegal dumping or illicit discharge.		Year 1	Implementation of the Discharge Dumping Response Plan was started. Provided a 24 hour phone number and illicit discharge reporting options on the City Website. Complete

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
3. Illicit Discharge Detection and Elimination	2.8 On-Site Sewage Disposal System	Review procedures to prevent and correct leaking of on-site sewage disposal systems. Implement the prevention and correction plan.		Year 1	No revisions needed. Complete
	2.8 On-Site Sewage Disposal System	Implement the prevention and correction plan.		Year 1	On-going
	2.9 Prevention of Illicit Discharges	Held a hazardous waste day for collection of household hazardous waste in April		4-5-2014	Held the Rockwall Hazardous Waste Day on 4-5-2014. 99,600 lbs. of household waste were collected. Complete.
	2.9 Prevention of Illicit Discharges	Recycling materials (newspaper, magazines and clear plastic bottles) are collected weekly and transported to a material recovery facility.		Year 1	Recyclable materials are collected once a week and transported to a material recovery facility. On-going.
	2.9 Prevention of Illicit Discharges	City provides a monthly curb-side pickup for bulk items, such as tree limbs and leaves.		Year 1	Have in place a monthly bulk material pickup. On-going.
3. Construction Site Storm Water Runoff Control	3.1 NCTCOG iSWM Design Manual	Staff adopted sections of the iSWM Manual for use by the City with site development activities.		Year 1	Reviewed performance of existing adopted portions of iSWM for its applicability to the City. No changes were necessary for Year 1. Complete

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
3. Construction Site Storm Water Runoff Control	3.2. Implement Design and Control Standards	The Engineering Department conducts pre-construction meetings for proposed new construction projects to provide design compliance guidelines to contractors.		Year 1	The Engineering Department conducts pre-construction meetings for proposed new construction projects to provide design compliance guidelines to contractors. On going
	3.2. Implement Design and Control Standards	The Engineering Department conducts inspections and follow- up on complaints on construction sites. We also provide recommendations on modifications/improvement of contractor's BMPs and O&M practices.		Year 1	Inspections are conducted on complaints at construction sites, with modifications of contractor's BMP and O&M practices as needed. On going
	3.3 Implement Requirements Imposed by Code of Ordinance	The Engineering Department conducts pre-construction meetings for proposed new construction projects to provide compliance guidelines to contractors for management of waste.		Year 1	Have incorporated waste management discussions (and verbiage in pre-con handout) into all pre-construction meetings. Pre-construction meetings required for all development and CIP projects. On-going.
	3.3 Implement Requirements Imposed by Code of Ordinance	The Engineering Department conducts inspections and follow- up on complaints on construction sites. We also provide recommendations on modifications/improvement of contractor's BMPs and O&M practices.		Year 1	Inspections are conducted on complaints at construction sites, with modifications of contractor's BMP and O&M practices as needed. On going

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
3. Construction Site Storm Water Runoff Control	3.4 Illicit Discharge/Dumping Response Plan	Direct the public to report any illegal dumping or illicit discharge.		Year 1	Implementation of the Discharge Dumping Response Plan was started. Provided a 24 hour phone number and illicit discharge reporting options on the City Website. Complete
	3.5 Construction *Plan Review*	Implement procedure to track *the receipt of* SWPPPs, NOI, and City Erosion Policies prior to the release of construction plans		Year 1	Use TrakIT software to track the submittal of SWPPPs, NOI, and City *Erosion Policies.* Complete
	3.6 Construction/ Post-Construction Handout	Erosion control requirements are in the City's "Construction Notes" that is distributed at our pre-construction meetings.		Year 1	Construction notes were reviewed and no revisions needed. Construction notes are distributed to contractors in pre-con meetings and a "Construction Notes" link is also provided on the City website.
	3.7 Municipal Employee Training	Send Engineering Department personnel to NCTCOG Storm Water Prevention Course.		Year 1	Sent two in Year 1. One inspector received a Certificate for Storm Water Inspections. See attachments for certificates. Complete
	3.7 Municipal Employee Training	Develop an outline of the information to be communicated for a 5 yr period		Year 1	In progress
4. Post Construction Storm Water Management in New Development and Redevelopment	4.1 NCTCOG iSWM Design Manual	Staff adopted sections of the iSWM Manual for use by the City with site development activities.		Year 1	Reviewed performance of existing adopted portions of iSWM for its applicability to the City. No changes were necessary for Year 1. Complete

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
4. Post Construction Storm Water Management in New Development and Redevelopment	4.2 Final Inspection	City conducts field inspection for completed construction sites to verify compliance to plans and specifications, including site stabilization.		Year 1	The inspection is required prior to acceptance of the completed construction project. On-going.
	4.2 Final Inspection	The City issues "Letters of Completion" for those sites that comply with plans and specifications (including site stabilization).		Year 1	The letter is issued as part of acceptance of the construction for the project. On-going.
	4.2 Final Inspection	The City will follow up with the contractors about complaints and observations in the field to insure long term O&M.		Year 1	Inspectors respond to complaints regarding erosion issues that are due to storm water management items that are not performing properly or not properly maintained. On-going.
	4.3 Illicit Discharge/Dumping Response Plan	Direct the public to report any illegal dumping or illicit discharge.		Year 1	Implementation of the Discharge Dumping Response Plan was started. Provided a 24 hour phone number and illicit discharge reporting options on the City Website. Complete
	4.4 Construction/ Post-Construction Handout	Erosion control requirements are in the City's "Construction Notes" that is distributed at our pre-construction meetings.		Year 1	Construction notes are distributed to contractors in pre-con meetings and a "Construction Notes" link is also provided on the City website. On going

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
5. Pollution Prevention/Good Housekeeping for Municipal Operations	5.1 City Owned Facilities and Control Inventory	Develop an inventory of City owned and operated facilities		Year 1	On going
	5.2 Municipal Employee Training	Use training material *developed by NCTCOG for* training		Year 1	Current training materials reviewed *and determined no modifications in* Year 1
	5.2 Municipal Employee Training	Training received by City employees		Year 1	52 employees watched Storm Water Pollution Prevention DVD 9-18-2013.
	5.3 Contractor Oversight	Develop a list of contractors the City uses through all departments		Year 1	On going
	5.4 Pollution Prevention Plan and O&M (Operation and Maintenance)	Identify municipal operations that may require a storm water pollution prevention plan		Year 1	On going
	5.5 Storm Water System Maintenance Plan	Develop an inspection process to identify sensitive areas for waste accumulation		Year 1	On going

MCM(s)	BMP	Milestones of Year 1	New or Revised	Start Date	Status / Completion Date (completed, in progress, not started)
5. Pollution Prevention/Good Housekeeping for Municipal Operations	5.6 Municipal Waste Disposal Procedures	Identify municipal operations generating wastes and the types of wastes generated.		Year 1	On going

TABLE 2 – Measurable Goals Status

MCM(s)	Measurable Goal(s)	Success	Proposed Changes (submit NOC as needed)
1.	1.1 Provided public notice	Met Goal.	None
	1.2. Conduct 2 outreach campaigns	Met Goal.	None
	1.3. Conduct 2 outreach campaigns	Met Goal.	None
	1.5. Review and Distribute Construction Notes at Pre-Construction Meeting	Met Goal.	None
	1.6 Utilize NCTCOG tracking	Met Goal.	None
	1.7 Have one presentation to the City Council at a public meeting on the SWPPP each year.	Presented Storm Water Management Program to Council via memo in Council packets.	None
	1.8 Training received by employees	2-Engineering Stormwater Prevention 1-Certified Stormwater Inspector 52-Stormwater Pollution Prevention	None
	1.9 Inlet Markers program developed	Met Goal	None
	1.10 Provide public means to report	Met Goal	None

MCM(s)	Measurable Goal(s)	Success	Proposed Changes (submit NOC as needed)
2.	2.1 Updated Storm Sewer Map	Met Goal.	None
	2.2 Training received by employees	2-Engineering Stormwater Prevention 1-Certified Stormwater Inspector 52-Stormwater Pollution Prevention	None
	2.4 Review Illicit Discharge Ordinance for needed revisions	Met Goal.	None
	2.5 Review detecting and removing illicit discharge ordinance	Met Goal.	None
	2.6 Post Storm Water Management Program on website	Met Goal	None
	2.7 Direct the public to report discharge	Provided 24 hr number and website reporting. Met Goal	None
	2.8 Review procedures	No revisions. Met Goal	None
	2.9 Schedule and conduct the Hazardous Waste Day for collection of household hazardous waste once a year.	Met Goal.	None
	2.9 Recycling materials (newspaper, magazines and clear plastic bottles) are collected weekly and transported to a material recovery facility.	Met Goal.	None

MCM(s)	Measurable Goal(s)	Success	Proposed Changes (submit NOC as needed)
2.	2.9 Provide a monthly curb-side pickup for bulk items, such as tree limbs and leaves. Grass clippings will be picked up with regular trash, twice a week.	Met Goal.	None
3.	3.1 Review the iSWM Manual for the conformance with site development activities.	Met Goal.	None
	3.2 Implement Design and Control Standards	Met Goal.	None
	3.3 Implement Requirements Imposed by Ordinance	Met Goal.	None
	3.4 Implementation of the Illicit Discharge Dumping Response Plan.	Met Goal.	None
	3.5 Construction Plan Review	Track by means of software. Met Goal	None
	3.6 Construction Notes distributed during pre-con meetings	Met Goal.	None
	3.7 Municipal Employee Training	2-Engineering Stormwater Prevention 1-Certified Stormwater Inspector 52-Stormwater Pollution Prevention	None
4.	4.1 Review the iSWM Manual for the conformance with site development activities.	Met Goal.	None
	4.2 Conduct field inspection for completed construction sites.	Met Goal.	None

MCM(s)	Measurable Goal(s)	Success	Proposed Changes (submit NOC as needed)
4.	4.2 Issue "Letter of Completion" for those sites that comply with plans and specifications.	Met Goal.	None
	4.2 Follow up with the contractors about complaints and observations in the field to insure long term O&M.	Met Goal.	None
	4.3 Direct the public to report discharge	Provided 24 hr number and website reporting. Met Goal	None
	4.4 Distribute Construction Notes at pre-con meeting	Met Goal	
5.	5.2 Municipal Employee Training	2-Engineering Stormwater Prevention 1-Certified Stormwater Inspector 52-Stormwater Pollution Prevention	None

A. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Timothy M. Tumulty, PE

Title: Director of Public Works/City Engineer

Signature: Timothy M. Tumulty DE

Date: 01/23/2015

A. Certification

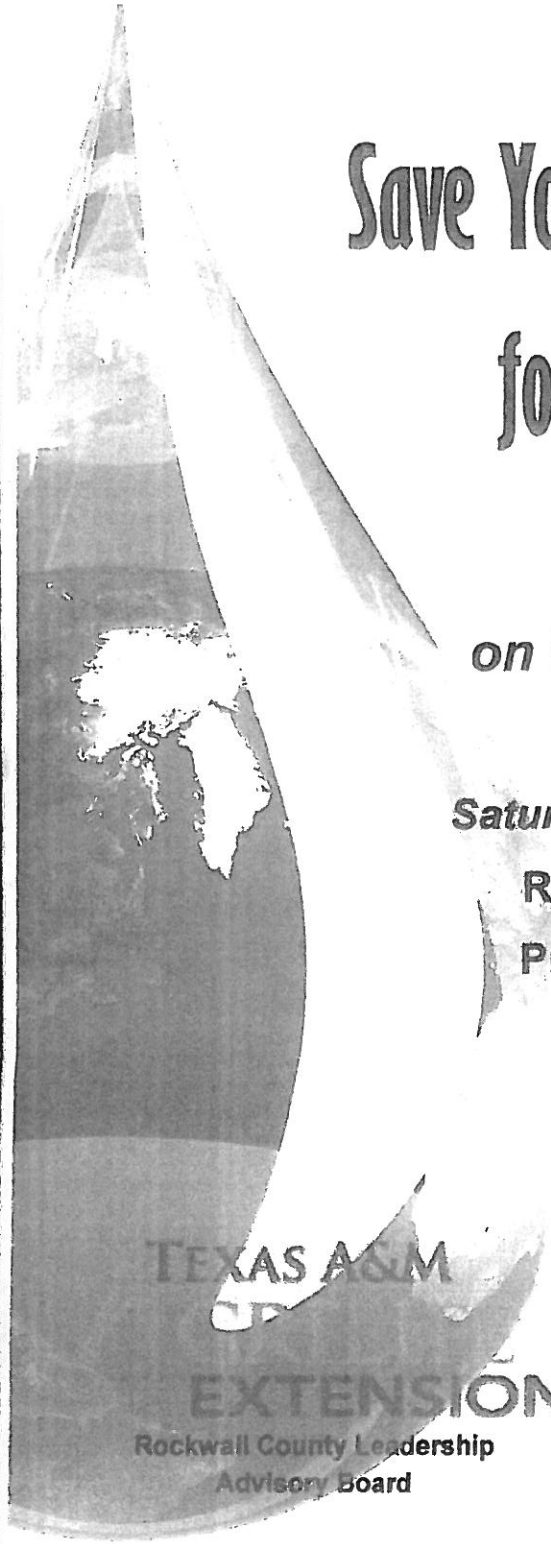
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Tim Tumulty, PE Title: Director of Public Works/City Engineer

Signature: _____ Date: _____

APPENDIX

Materials Distributed at Events and Website



Save Your Landscape for Better Days

A Conference on Water Solutions

Saturday, August 9, 2014

Registration 9:30 am

Program 10 am -1 pm

TEXAS A&M

EXTENSION

Rockwall County Leadership Advisory Board

Hosted By:

TEXAS MASTER GARDENER

Take Care of Texas
TakeCareOfTexas.org

Landscape Irrigation

A "TAKE CARE OF TEXAS" GUIDE

One of the most important steps in maintaining a healthy landscape is effective irrigation. A properly watered lawn and garden is more resistant to pests and other lawn problems. However, much of the water used to maintain our landscapes is wasted through inefficient watering techniques. By developing a water-efficient lawn and garden, you can maintain a healthy and beautiful yard that benefits the environment.

Water-Efficient Landscapes

A water-efficient landscape starts with plant selection. Choosing plants adapted to the area will help make your landscape both beautiful and water-efficient. Plants native to your area typically require less maintenance and smaller amounts of pesticides, fertilizers, and supplemental water.

Keep in mind, though, that newly established landscaping will require more water than an established area. Adjust your watering schedule according to the needs of your plants.*

Watering Mistakes

Much of the water applied to lawns and gardens never gets absorbed by the plants. Common ways that water is wasted include:

- **Runoff.** Applying water too rapidly causes runoff, because grass and plants can only absorb so much water at a time. When runoff occurs, soil, fertilizers, and pesticides can be carried to nearby streams.
- **Evaporation.** Watering in the middle of the day or using a sprinkler that sprays a fine mist causes much of the water you apply to be lost through evaporation. Plants don't have enough time to absorb the water before it is evaporated by the sun.
- **Underwatering.** Watering too little is wasteful because it does little to alleviate any drought stress that the plants may have.
- **Overwatering.** Applying too much or too often causes the greatest waste of water. In addition to overwatering the plant, excessive irrigation can leach nutrients deep into the soil away from plant roots, which increases the chances of runoff pollution.

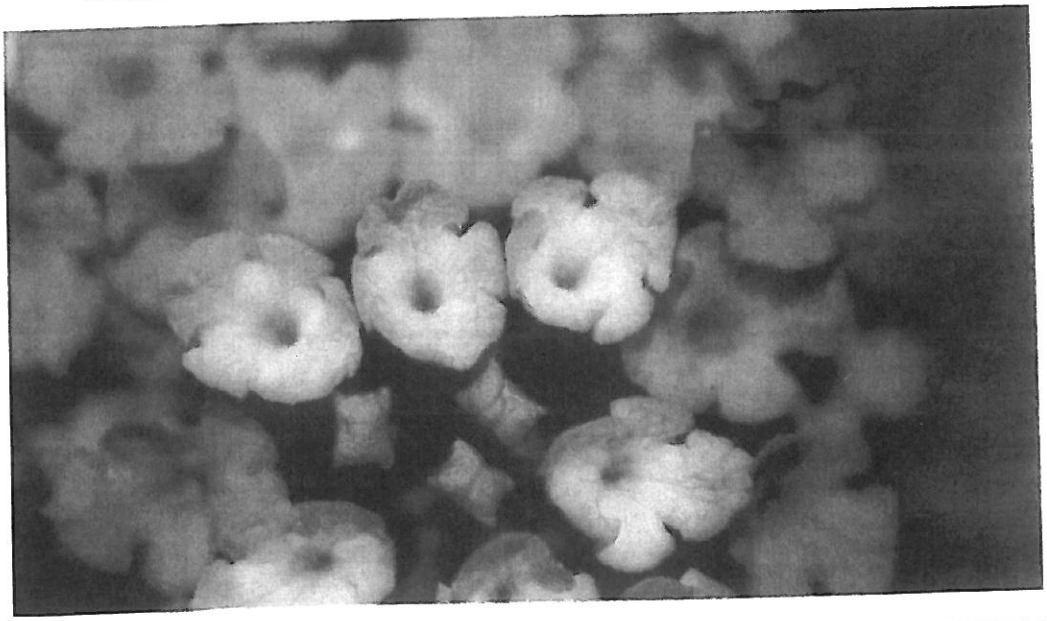
Good Watering Techniques

The key to watering lawns is to apply water infrequently, yet thoroughly. This creates a deep, well-rooted lawn that efficiently uses the water that is stored in the soil. To know when to water your lawn, simply observe the grass. Wilting and discoloration are signs of water stress. At the first sign of wilting, you have 24 to 48 hours before damage occurs.

To water properly, apply 1 inch of water to the lawn as rapidly as possible without runoff.

- An easy way to measure your application of water is to place a 6-ounce tuna can on your lawn. When the can is full, you have applied enough water.
- If you start to notice runoff before the can is full, turn off the water. Then, wait for approximately one hour to allow the grass to absorb the water, turn the water on again, and wait for the tuna can to fill.

Water early in the morning, before 10 a.m. Avoid watering from mid-morning to late afternoon, when you can lose one-third of your water to evaporation. Also avoid watering in the evening, because lawns and plants that are left wet overnight are more prone to disease.*



*Always comply with your water system's water-use restrictions

Take Care of Texas
TakeCareOfTexas.org

Rainwater Harvesting with Rain Barrels

A "TAKE CARE OF TEXAS" GUIDE

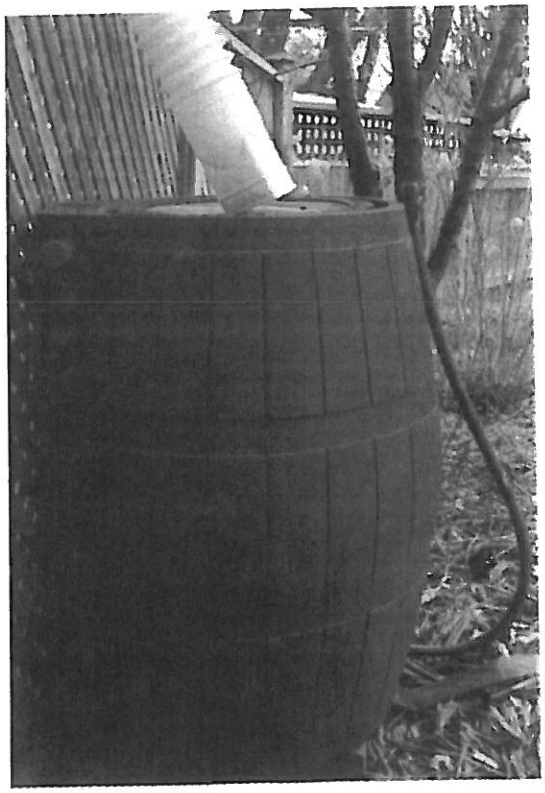
What Is Rainwater Harvesting?

Rainwater harvesting is the collecting and storing of rainwater. You can collect rainwater from a roof, which is the most common method, and store it in catchment tanks, such as rain barrels.

A Brief History of Rainwater Harvesting

Before there were public water utilities, many American households harvested rainwater. With the development of large, reliable water treatment and distribution systems, the appeal of rainwater harvesting diminished.

However, as the environmental and economic costs of providing centralized water escalate, a new interest in rainwater harvesting has emerged. The easiest way to begin harvesting rainwater for your home is to use a rain barrel to collect water for your container plants, landscape, and garden.



Reasons for Harvesting Rainwater

Benefits

- The water is free.
- Rainwater is better for plants than chemically treated water.
- Rainwater harvesting can help reduce flow to storm water drains and reduce stream pollution.
- Using stored rainwater can reduce utility bills.

Other Incentives

Texas Tax Code 151.355 exempts rainwater-harvesting equipment from sales tax. To download the Texas Sales and Use Tax Exemption Certificate, visit <www.window.state.tx.us/taxinfo/taxforms/01-339.pdf>.

HOW TO CONSTRUCT A RAIN BARREL

Materials

- 55-gallon polyethylene plastic barrel
- 3/4-inch hose spigot
- 3/4-inch PVC closed nipple
- window screen
- Teflon cement
- water hose (optional)
- bricks or concrete blocks (optional)

Tools

- drill with a 1-inch paddle bit
- utility knife or jig saw

Instructions

1. **Inflow.** Use the utility knife or jig saw to cut a hole in the top of the barrel approximately the same diameter as your gutter downspout.
2. **Spigot.** Measure 3 to 4 inches from the bottom of the barrel and drill a 1-inch hole. Screw the spigot halfway into the barrel, apply some Teflon cement to the exposed threads, and continue to twist until tight. In addition, you can use a rubber washer, metal washer, and a lock nut to more firmly secure the spigot to the barrel from the interior.
3. **Overflow.** Measure 3 to 4 inches from the top of the barrel and drill a 1-inch hole. Twist in the 3/4-inch PVC closed nipple about one-quarter of the way, apply Teflon cement to the exposed threads in the middle portion of the coupling, and continue to screw it in, leaving 1 inch of thread exposed.

   Connect the hose to the pipe coupling overflow spigot at the top of the barrel. You can run this hose into another barrel or to a soaker hose (which will evenly distribute excess water and help avoid flooding).
4. **Downspout.** Place the barrel directly below the downspout. You will need to reconfigure the downspout to flow into the hole. If you like, place the barrel on concrete blocks or bricks. Raising the barrel will allow you to get a bucket under the spigot, and will facilitate leveling the area where your barrel will sit.

   Cover the hole on the top of the barrel with the window screen, to prevent sticks, rocks, or dirt from getting into it. Screens also keep mosquitoes out. Secure the screen with a few bricks or rocks to keep it in place.

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10 Common Texas Yard Pests

A "TAKE CARE OF TEXAS" GUIDE

Gardening and yard care can give you satisfying results, such as beautiful landscapes and abundant wildlife. However, yard pests can be discouraging, even for the most committed gardener. Learn smart ways to get rid of these 10 common Texas yard pests, so that you can better enjoy your landscape, and Take Care of Texas in your yard.

Quick Tips to Avoid Pests

- **Irrigate efficiently. Water infrequently, but thoroughly (generally 1 inch, once a week), and do so in the mornings.***
- **Use native and adapted plants, which are better suited to the local environment and are more resistant to pests.**
- **Mow properly, taking off no more than one-third of the grass blade with each mowing.**
- **Choose natural or organic fertilizers, avoid overusing fertilizers, and encourage natural predators such as worms, ladybugs, certain beetles and mites, and birds.**
- **Monitor for pests often to catch infestations early and determine if control is needed; many times, natural predators may make treatment unnecessary.**

Always comply with your water system's water-use restrictions.

1. Aphids

Aphids are tiny (1/16 to 1/8") insects with a soft body, long legs, and antennae. Most aphids are host-plant specific and usually do not move to other species.

Infestation and Attack

Aphids attack new growth or the underside of leaves. They suck sap from plants and excrete clear, sticky "honeydew" onto leaves. This honeydew often causes a black, sooty fungus that blocks sunlight from leaves. Typically, aphids attack bedding plants, crape myrtle, hibiscus, oaks, oleanders, pecan trees, roses, and vegetables.

Prevention or Solutions

- After you identify an infestation, introduce ladybugs, lacewings, and other beneficial insects to your landscape. For best results, follow release instructions carefully and release in an enclosed area.
- Use sticky barriers to prevent ants from tending the aphids and protecting them from natural predators.
- For minor infestations, spray host plants with water at high pressure to dislodge the aphids.
- Use insecticidal soaps and horticultural oils to help control the aphids.
- When appropriate, use row covers, which will physically keep the aphids off vegetable crops while still allowing air, light, and water exchange.

2. Caterpillars

Pest caterpillars include the tomato hornworm, the tent caterpillar, the genista caterpillar, and the spring cankerworm.

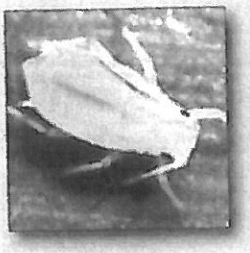
Caterpillars are the larval stage of butterflies, so butterfly-gardening enthusiasts should expect some caterpillar damage.

Infestation and Attack

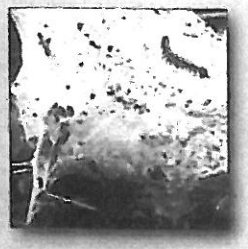
Caterpillars can be found year-round but are most prevalent in spring and fall.

Prevention or Solutions

- Do not treat native trees; caterpillar infestations are natural and rarely threaten the health of a tree unless it is already stressed or weakened.
- Monitor infestations of very young caterpillars to see if natural controls such as predators, parasitic wasps, or harsh weather will eliminate the infestation. Try releasing parasitic wasps when caterpillars first appear.


Aphid


Tomato Hornworm


Tent Caterpillar


Spring Cankerworm

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Managing Lawn Problems in Texas

A "TAKE CARE OF TEXAS" GUIDE

Choose Your Landscape

When choosing a landscape for your yard, it is important to consider not only what you want your yard to look like, but the amount of resources and time necessary to maintain it. Lawn alternatives, such as drought tolerant native plants, can save water and energy as well as time and money by requiring little maintenance. For more information on selecting a landscape, visit <earthkind.tamu.edu>.

If you decide to have a lawn, consider planting a less extensive grass landscape and choose a turf that is right for your region and environment.

Choose Your Turf

When properly maintained, turfgrass can have a positive impact on the environment. Turfgrass that is actively growing can be beneficial to your yard and the environment by helping to:

- stabilize soil;
- conserve water;
- filter air- and water-borne pollutants;
- suppress and control dust, glare, and noise; and
- dissipate heat.

Choosing the right type of turfgrass is an important first step in maintaining a healthy lawn. The most commonly used grasses in Texas are St. Augustine, Bermuda, buffalo, centipede, tall fescue, and zoysia, which are generally compatible with the state's diverse climate conditions. When choosing what type of grass to use, keep in mind its tolerance to shade, drought, traffic, cold, salinity, and disease. Properly adapted turfgrass will require less maintenance and smaller amounts of fertilizer and supplemental water.

For more information on selecting grasses, visit Aggie Turf, at <aggieturf.tamu.edu>.

Maintain Your Lawn

Maintaining a healthy turf will help you avoid many common lawn problems, as well as the need for many pesticides—including insecticides, herbicides, and fungicides. The following tips will help you keep your lawn healthy and beautiful:

- Choose the correct turf for your light conditions and lawn use.
- Establish an adequate depth of healthy soil (at least 6 inches under your turf).
- Aerate your lawn once a year to improve drainage and reduce soil compaction.
- Irrigate efficiently, making sure to:
  - » water in the morning, before 10 a.m.,*
  - » wet the soil to a depth of 4–6 inches, and
  - » allow the soil to dry out between watering.
- Mow properly, taking no more than one-third of the grass blade off with each mowing.
- Be careful not to overfertilize, which can weaken turf, as well as contribute to water pollution by causing excess nutrients to be released into rainfall runoff. Choose natural or organic fertilizers, such as compost, which typically slow-release their nutrients and can often be used in smaller amounts.
- Test your soil periodically to determine which nutrients re lacking, before you decide whether or not to fertilize.

*Always comply with your water system's water-use restrictions

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Mulching and Composting

A "TAKE CARE OF TEXAS" GUIDE

Why Mulch and Compost?

To Save Money
- **Lower your water bill.**
- **Buy less fertilizer.**
- **Stop buying lawn and leaf bags.**

To Save Time and Effort
- **Stop bagging grass and leaves.**
- **Spend less time watering.**
- **Spend less time fertilizing.**

To Help Your Community
- **Save landfill space.**
- **Conserve water resources.**
- **Reduce water pollution.**

Mulch

What Is Mulch?

Mulch is a material that is used to protect the soil and to inhibit weed growth by covering the ground. Good mulches include wood chips, leaves, grass clippings, and compost. They can benefit your lawn and garden by preventing erosion, suppressing weeds, retaining soil moisture, moderating soil temperature, and adding nutrients as they break down slowly.

How to Use Mulch

- Put a 3- to 4-inch layer of mulch around your trees, shrubs, and garden plants. To prevent diseases and pest infestation, mulch should not be piled up against the stems or trunks of plants. For best results, use long-lasting mulches (wood chips, wood shavings, evergreen needles).
- Create a self-mulching lawn! Wait to mow until your grass is between 2 and 4 inches high. Then mow off only the top one-third of the grass, and don't bag the clippings. This way, the clippings will feed your soil and won't smother your grass.
- If you have too many clippings, rake them into mulch layers around trees and shrubbery.

Mulching Basics

- Mulch all areas that are not covered in grass or thick ground cover.
- Use a layer of coarse mulch 3 inches or more in depth for weed control.
- When converting grassy areas to mulch, smother the grass with a thick layer of cardboard or newspaper rather than killing it with chemicals. Some hardy grasses must be rooted out for successful removal.
- Blanket perennials with several inches of shredded leaves or whole pine needles to protect them from the winter cold.
- Spread mulches under annuals after they are well established.
- Water the ground thoroughly before and after applying a mulch cover.
- Never rely on a rainstorm to water your mulches. In many cases, the rain will fall too heavily and quickly, and a fair amount of your mulch may run off into the storm drain and local creeks.

Compost

What Is Compost?

Compost forms when you mix together things like leaves, grass clippings, vegetable and fruit scraps, coffee grounds and filters, and used tea bags. The mixture eventually breaks down and forms humus, which you can use to enrich your soil. Compost has many of the nutrients that plants need. You can use it as a mulch or topdressing or can mix it into the soil.

How to Use Compost

- To plant a lawn or garden, mix 1 to 2 inches of compost into the top 6 inches of soil.
- To maintain a lawn or garden, sprinkle it with a 1/4- to 1/2-inch layer of sifted compost once a year and water the compost.
- To control erosion in a lawn, cover bare areas with 2 to 4 inches of compost.
- To add nutrients and control fungus in gardens or planters, use compost as one-third of a potting soil mix (with equal parts topsoil and sand).

The "Take Care of Texas" Guide to Yard Care

Take Care of Texas
TakeCareOfTexas.org

Do your part for the environment, starting in your own yard. The *"Take Care of Texas" Guide to Yard Care* will help you maintain a healthy yard, save money, and take care of our state's varied landscapes.

Why Take Care of Texas?

Texas is a beautiful state rich in diverse resources. As Texans, it is our job to make sure our state remains a beautiful and healthy place to live. To accomplish this goal, all Texans need to do their part. The Take Care of Texas campaign is designed to involve all Texans in simple changes that will help keep our air and water clean, conserve water and energy, reduce waste, and save individuals a little money in the process. For more information, please visit <TakeCareOfTexas.org>.

Water Conservation

Lawn and garden watering make up nearly 40 percent of total household water use during the summer. Finding ways to use less water will not only help conserve this precious resource, it will also save you money on your water bill.*

Irrigate Efficiently

Much of the water applied to lawns and gardens is never absorbed by plants. The greatest waste of water results from applying it too rapidly or too often. Water applied too rapidly is lost as runoff, which may carry polluting fertilizers and pesticides to streams and lakes. Some water evaporates when it's applied to bare, unmulched soil, or in the hot afternoon.

Sprinkler systems offer an effective method for irrigation, if used properly. Make sure that sprinkler heads are adjusted to avoid watering sidewalks and driveways. Also, a properly adjusted sprinkler head sprays large drops of water instead of a fine mist, which is more susceptible to evaporation and wind drift.

Drip irrigation and soaker hoses offer an efficient method for watering vegetables, ornamental and fruit trees, shrubs, vines, and container-grown plants. Drip irrigation slowly applies water to the soil by flowing, under low pressure, through emitters, bubblers, or spray heads placed at each plant. Water applied by drip irrigation is not likely to evaporate or run off.

Soaker hoses require less equipment and are easier and less expensive to install than drip irrigation. A soaker hose is a porous hose that can be connected to an outside faucet, a garden hose, or a rain barrel and laid out along the base of the plants. The hose allows water to seep out along its length.

For more information on irrigation practices, see *Landscape Irrigation: A "Take Care of Texas" Guide* (GI-409) at <www.tceq.texas.gov/publications/gi/gi-409.html>.

Avoid Overwatering

Watering too heavily or too often weakens your lawn and causes erosion and runoff pollution. Excess irrigation can also leach nutrients deep into the soil away from the plant roots, increasing the chances of polluting the groundwater. Similarly, runoff caused by excess irrigation can carry polluting fertilizers and pesticides to streams and lakes.

Most lawns receive twice as much water as they require for a healthy appearance. Water should be applied to lawns infrequently, yet thoroughly. To know when it's time to water your lawn, simply observe your grass. Wilting and discoloration are signs of water stress. At the first sign of wilting, you have 24 to 48 hours before damage to your lawn occurs. A general rule is to

*Always comply with your water system's water-use restriction.

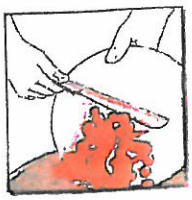
Let's Tackle the Grease in This Kitchen!

Why should I help?

- Prevent grease buildups from blocking sewer lines.
- Stop sewer overflows into streets and storm drains.
- Save money spent on costly cleanups of sewage spills.
- Reduce the number of times you have to clean your grease trap (food service).
- Protect the quality of our water.

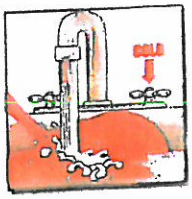
DO!

✔ Put oil and grease in covered collection containers.



✔ Scrape food scraps from dishes into trash cans and garbage bags and dispose of properly. Avoid using your garbage disposal.

✔ Remove oil and grease from dishes, pans, fryers, and griddles. Cool first before you skim, scrape, or wipe off excess grease.



✔ Prewash dishes and pans with cold water before putting them in the dishwasher.

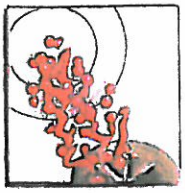
✔ Cover kitchen sink with catch basket and empty into garbage can as needed.

✔ Cover floor drain with fine screen and empty into garbage can as needed.

DON'T!

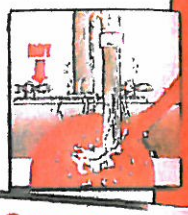
Don't pour oil and grease down the drain. ✘

Don't put food scraps down the drain. ✘



Don't run water over dishes, pans, fryers, and griddles to wash oil and grease down the drain. ✘

Don't rinse off oil and grease with hot water.



More Ways to Tackle Grease

- Use environmentally safe cleaning products instead of harsh detergents or cleaners that can damage sewer lines.
- If you generate large amounts of used cooking oil, reuse or recycle it. To find a recycler, check the phone book under "recyclers" or "rendering companies."
- If you generate small amounts of used cooking oil, reuse it as often as possible and then pour it into a container you can throw away. Never pour it down the drain.
- Start a compost pile at your home with scraps that are not meat. Find out about composting in the TCEQ publication, *A Green Guide to Yard Care* (GI-028).

For more information, contact the
Texas Commission on Environmental Quality (TCEQ)
Small Business & Local Government Assistance Section
1-800-447-2827 • www.tceq.state.tx.us

TCEQ

Take Care of Texas

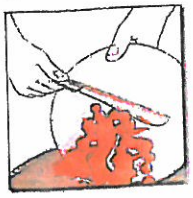
¡Ataquemos a la Grasa en Esta Cocina!

¿Por qué tengo que ayudar?

- Evitar acumulaciones de grasa que obstruyan las líneas de drenaje.
- Detener los desbordamientos de drenaje hacia la calle y desagües pluviales.
- Ahorrar dinero gastado en limpiezas costosas de derrames de aguas residuales.
- Reducir el número de veces que se tienen que limpiar las trampas de grasa (servicio de alimentos).
- Proteger la calidad de nuestra agua.

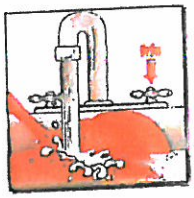
¡HAGA ESTO!

✔ Ponga el aceite y la grasa en contenedores cerrados para colección.



✔ Quite las sobras de comida en botes o bolsas de basura y disponga de ellos adecuadamente. Evite usar su trituradora de basura.

✔ Quítele el aceite y la grasa a los trastes, ollas, freidoras y parrillas. Primero enfríe antes de tallar o limpiar el exceso de grasa.



✔ Enjuague los trastes y ollas con agua fría antes de ponerlos en la lavadora para trastes.

✔ Cubra el fregadero de la cocina con una canasta para capturar comida y vacíelo en el bote para basura, como sea necesario.

✔ Cubra el resumidero en el piso con un cedazo fino y vacíelo en el bote de la basura, como sea necesario.

¡NO HAGA ESTO!

No vacíe aceite y grasa por el desagüe. ✘

No tire sobras de comida por el desagüe. ✘

No enjuague los trastes, ollas, freidoras y parrillas con agua para tirar el aceite y la grasa por el desagüe. ✘

No enjuague el aceite y grasa con agua caliente.

Otras Maneras de Atacar la Grasa

- Use productos de limpieza ambientalmente seguros en lugar de detergentes o limpiadores ásperos que pueden dañar las líneas de drenaje.
- Si genera en la cocina grandes cantidades de aceite usado, reúselo o recíclelo. Para encontrar a un reciclador, revise el directorio telefónico bajo "recicladores."
- Si usted genera cantidades pequeñas de aceite usado para cocinar, reuse tan seguido como sea posible y luego vacíelo en un contenedor que pueda tirar. *Nunca* vacíelo por el desagüe.
- Empiece un montón de abono en su casa con sobras de alimentos que no contengan carne. Aprenda sobre el compostaje en la publicación de la TCEQ, *Una Guía Verde para el Cuidado del Jardín* (GI-028).

Para mayor información comuníquese con la Comisión de Calidad Ambiental de Texas (TCEQ por su nombre en inglés)
Sección de Asistencia a Pequeños Negocios y Gobiernos Locales
1-800-447-2827 • www.tceq.state.tx.us

TCEQ

Take Care of Texas
www.takecareoftx.org

NCTCOG Public Education Activity Report

NCTCOG Public Education Activity Report

North Central Texas Council of Governments

Public Education Activity Report August 13, 2013, to December 31, 2014

The purpose of this activity report is to document the public education-related initiatives conducted by the Stormwater Public Education Task Force (PETF) under the direction of the Regional Stormwater Management Coordinating Council (RSWMCC) that took place from August 13, 2013, to December 31, 2014. The PETF's mission is to promote Municipal Stormwater Public Education in North Central Texas through the exchange of professional experience and to explore, develop, and implement opportunities for mutual cooperation. Participation in the PETF and education campaigns is a volunteer effort to help meet stormwater public educational requirements.

During this reporting period, the PETF focused primarily on five educational campaigns to address lawn and garden care, general stormwater issues, and the proper management of pet waste, fallen tree leaves/yard waste, and fats, oils, and grease (FOG). Other cooperative efforts were also conducted during the August 13, 2013, to December 31, 2014, time period (identified in the "Other" section). See the sections below for specifics.

Lawn and Garden Care

The purpose of the lawn and garden care campaign, known as "March Is Texas SmartScape® Month," is to encourage the public (specifically homeowners and/or landscape companies) to use native and adapted plants in the landscape and adopt proper design, care, and maintenance techniques. Texas SmartScape plants need less water, pesticides, and fertilizers to thrive, thus reducing these pollutants from landscape runoff.

"March Is Texas SmartScape Month" has been identified as a Regionally Developed Initiative (RDI) and provides local governments with the opportunity to join others in a common goal to educate citizens on stormwater pollution prevention. The campaign was primarily promoted during the month of March; however, activities occurring outside this month falling in the August 13, 2013, to December 31, 2014, time period are included.

1. Bookmarks

The Texas SmartScape bookmarks were developed in 2003. The bookmarks were updated in 2013 with new photographs and a new layout. Each bookmark has a photo of a SmartScape plant on the front with the Texas SmartScape website address. On the back of the bookmarks, there is a description about the environmental benefits of Texas SmartScape plants.

A total of 10,650 bookmarks were cooperatively purchased in April 2014 for the purpose of distributing by the following 15 organizations: City of Azle, City of Bedford, City of Burleson, City of Dallas, City of Duncanville, City of Frisco, City of Fort Worth, City of Garland, City of Grapevine, Town of Highland Park, City of Hurst, City of Mansfield, City of McKinney, City of North Richland Hills, and City of Rockwall.

2. Website

The Texas SmartScape website (www.txsmartscape.com) was developed for the North Central Texas region in 2003 and for the West Texas region in 2005 through the sponsorship of several organizations. It is an interactive how-to guide that teaches concepts of landscaping with native and adapted plants; it also offers proper design, care, and maintenance techniques that are

environmentally friendly. The most popular feature of this website is the plant search database, which helps the public select SmartScape plants that are appropriate for their yards/projects.

The website was completely updated in 2013 to include a new layout and photographs. The information remains the same, but the website is now more user-friendly and has a more modern feel.

Table 1: User statistics for the Texas SmartScape website (www.txsmartscape.com) by month.

Month	Users	Sessions	Page Views	Avg. Session Duration
August 13-31, 2013	2,920	3,705	20,561	4:08
September 2013	5,033	6,404	35,557	4:08
October 2013	4,110	5,229	30,914	4:32
November 2013	3,279	5,600	64,553	9:45
December 2013	1,702	2,085	12,854	4:28
January 2014	2,897	3,620	26,884	4:57
February 2014	4,875	6,204	50,606	5:16
March 2014	11,557	15,064	125,456	5:40
April 2014	13,984	18,208	132,879	4:55
May 2014	12,564	16,211	107,089	4:29
June 2014	8,974	11,116	60,209	3:51
July 2014	7,646	9,378	45,226	3:33
August 2014	7,000	8,710	40,378	3:33
September 2014	7,091	8,625	41,438	3:31
October 2014	6,675	8,249	39,675	3:33
November 2014	4,043	4,878	21,714	3:26
December 2014	3,186	3,770	15,801	3:19
Total	100,507	137,056	871,794	Avg: 4:33

Table 2: User statistics for the Texas SmartScape website (www.txsmartscape.com) based on location (only stormwater program participants and/or organizations located in the North Central Texas region are listed).

Organization	Sessions	Pages per Session	Avg. Session Duration	New Sessions (%)	Bounce Rate (%)
Addison	124	6	3:51	68	48
Aledo	121	8	4:58	74	48
Allen	1,366	8	5:38	72	42
Alvarado	23	5	5:15	83	43
Anna	134	5	5:07	54	58
Argyle	137	13	6:49	72	42
Arlington	4,704	8	5:47	63	41
Athens	43	7	4:29	77	40
Aubrey	12	4	2:39	92	42
Azle	237	7	4:44	77	48
Bedford	665	8	5:38	66	39
Blue Ridge	18	2	1:39	89	67
Bonham	41	4	5:27	78	41

Organization	Sessions	Pages per Session	Avg. Session Duration	New Sessions (%)	Bounce Rate (%)
Bowie	19	6	4:53	89	42
Bridgeport	41	10	9:10	78	41
Brownsboro	1	1	0	100	100
Burleson	707	8	5:33	57	45
Caddo Mills	34	3	2:08	82	56
Campbell	3	3	1:20	100	67
Canton	36	15	10:55	89	25
Carrollton	1,619	8	5:21	69	41
Cedar Hill	198	6	3:46	66	45
Celeste	7	14	8:26	29	43
Celina	36	7	4:58	83	53
Chandler	14	2	0:13	100	93
Cleburne	232	8	6:00	60	34
Clifton	7	2	0:56	71	43
Colleyville	194	4	3:30	57	66
Comanche	12	16	5:41	58	33
Commerce	175	2	1:01	15	90
Cooper	2	5	8:16	100	50
Coppell	843	8	5:02	61	40
Corsicana	48	4	5:30	79	42
Crandall	16	2	2:53	63	50
Crowley	160	8	5:46	61	45
Cumby	1	1	0	100	100
Dallas	12,087	7	4:47	71	45
De Leon	25	4	5:37	60	44
Decatur	145	5	4:35	65	47
Denton	1,647	8	5:37	71	42
DeSoto	188	7	4:59	72	46
Duncanville	175	7	4:58	79	45
Emory	9	11	11:43	67	44
Ennis	71	13	7:51	63	41
Euless	372	6	4:51	65	40
Fairfield	27	10	3:43	89	52
Farmersville	14	3	2:05	100	36
Ferris	15	5	3:19	80	47
Flower Mound	1,491	6	4:16	60	45
Forney	368	8	6:08	76	46
Fort Worth	11,852	10	7:56	60	33
Frisco	3,008	7	5:12	62	47

Organization	Sessions	Pages per Session	Avg. Session Duration	New Sessions (%)	Bounce Rate (%)
Gainesville	226	13	7:56	63	48
Garland	2,464	9	6:42	66	40
Glen Rose	52	6	3:47	73	56
Granbury	392	8	5:23	73	45
Grand Prairie	605	8	5:33	74	43
Grapevine	2,159	6	5:42	58	40
Greenville	133	9	5:32	62	44
Haltom City	106	9	6:12	74	29
Hamilton	9	2	0:48	100	78
Hico	3	14	19:30	100	33
Hillsboro	17	5	3:29	88	71
Honey Grove	5	4	1:30	100	60
Hubbard	1	1	0	100	100
Hurst	379	9	7:45	56	38
Hutchins	3	5	1:06	100	67
Irving	1,637	7	4:38	70	45
Italy	5	8	3:57	80	80
Itasca	6	9	2:11	83	17
Jacksboro	23	2	0:30	35	61
Joshua	9	4	5:13	89	56
Justin	137	10	8:26	48	48
Kaufman	16	8	4:01	75	31
Keene	16	6	3:04	81	50
Keller	1,002	7	5:10	64	47
Kemp	2	11	20:27	100	50
Kennedale	24	5	3:14	71	54
Krum	11	10	12:47	73	27
Lake Dallas	30	9	6:59	93	40
Lancaster	26	3	1:42	88	54
Leonard	12	9	5:11	92	17
Lewisville	1,179	6	4:36	63	50
Lipan	22	5	3:44	73	41
Little Elm	410	9	6:05	74	43
Lone Oak	8	3	2:40	88	63
Mabank	27	12	9:20	81	52
Mansfield	943	8	5:47	69	38
Maypearl	5	9	6:10	100	60
McKinney	2,600	7	4:32	66	47
Melissa	28	12	5:02	96	32

Organization	Sessions	Pages per Session	Avg. Session Duration	New Sessions (%)	Bounce Rate (%)
Mesquite	537	9	5:21	71	48
Midlothian	313	6	4:14	61	44
Milford	14	4	3:05	29	71
Mineral Wells	88	8	5:34	66	49
Montague	1	2	0:36	100	0
Muenster	29	5	3:00	86	69
Nevada	25	16	7:27	52	56
Newark	13	6	5:29	85	46
North Richland Hills	1,356	8	5:48	62	40
Palestine	33	5	3:53	88	42
Palmer	6	3	4:00	100	33
Palo Pinto	2	1	0	100	100
Paris	86	5	3:39	76	57
Parker County	1	1	0	100	100
Pilot Point	102	5	5:28	70	54
Plano	6,146	8	5:17	66	44
Ponder	15	6	2:56	87	33
Princeton	13	8	12:53	46	15
Prosper	450	7	4:53	71	45
Quinlan	23	5	3:03	87	52
Red Oak	104	5	3:29	73	43
Richardson	2,235	8	5:16	70	44
Roanoke	186	5	3:22	69	55
Rockwall	612	7	5:25	65	44
Rowlett	528	7	5:40	63	42
Royse City	64	10	9:01	69	38
Sachse	16	6	2:30	88	44
Scurry	1	2	0:26	100	0
Seagoville	22	4	6:40	86	50
Southlake	833	8	5:07	69	42
Springtown	125	7	5:38	62	34
Stephenville	180	6	3:29	72	52
Sulphur Springs	41	7	5:05	98	49
Sunnyvale	14	3	1:05	79	71
Terrell	66	9	8:43	70	47
The Colony	231	9	4:58	62	39
Trenton	15	8	4:19	73	33
Valley View	43	9	9:57	58	28
Waxahachie	354	8	5:32	70	51

Organization	Sessions	Pages per Session	Avg. Session Duration	New Sessions (%)	Bounce Rate (%)
Weatherford	518	6	4:23	65	48
Weston	1	1	0	0	100
Whitney	127	6	4:08	76	50
Wills Point	6	3	2:07	100	50
Wolfe City	2	5	2:29	100	0
Wylie	744	6	4:27	72	49

3. Planning Tools

A number of planning tools were made available to help local governments and other organizations promote Texas SmartScape in their communities. The theme for the 13th Annual March Is Texas SmartScape Month, "Give Water the Boot, Plant Texas SmartScape Roots!", was chosen by PETF participants. Materials prepared to align with this theme included a press release template and graphics for public service announcements (used in water bill inserts, flyers, and other marketing materials).

Materials that were prepared for past Texas SmartScape Months continued to be made available and included public service announcements for radio, sample resolution/proclamation (to assist in officially designating March as Texas SmartScape Month), brochures and posters, press release templates, and public service announcements for print. The materials listed above were made available through the web (www.nctcog.org/envir/SEEclean/txsmartscape/index.asp) for local governments to customize and distribute as desired.

4. Nursery/Landscape Company Partnership Program

NCTCOG, in cooperation with local communities, initiated a partnership effort with North Central Texas nurseries and landscape design/maintenance companies in August 2009. Nurseries that wished to partner with Texas SmartScape were encouraged to use specially designed and recognized stickers to identify these plants at the nursery as Texas SmartScape-approved. Landscape design/maintenance companies that wished to partner with Texas SmartScape were encouraged to notify NCTCOG if they use Texas SmartScape ideas and techniques in their landscape design and maintenance. NCTCOG would then post information about these companies to a page ("Texas SmartScape-friendly companies") on the Texas SmartScape website.

Information about 8 Texas SmartScape-friendly companies has been posted to the Texas SmartScape site.

5. Texas SmartScape-Related Events

The purpose of the Stormwater Education Events Calendar (www.nctcog.org/envir/SEEclean/stormwater/meetings/calendar/index.asp) and the Texas SmartScape Calendar (www.txsmartscape.com/events/index.asp) is to provide a common location for organizations to post information about upcoming stormwater-related events going on across the region. More than 100 Texas SmartScape-related events were posted to these calendars. The following 17 organizations hosted these events: City of Allen, City of Arlington, City of Bedford, City of Coppell, Dallas Water Utilities, City of Denton, City of Fort Worth, City of Frisco, City of Grand Prairie, City of Irving, City of Lewisville, City of Mansfield, City of McKinney, City of Plano, City of Richardson, City of Southlake, and Texas A&M AgriLife.

This year also marked the first annual Texas SmartScape plant sales. Several cities in the region partnered with Home Depot and Weston Gardens to offer consumers special deals on select varieties of Texas SmartScape plants. Consumers were given the opportunity to talk with master gardeners, plant experts, and irrigation specialists. Ten plant fairs were hosted in spring 2014 by the following 9 cities: Arlington, Carrollton, Frisco, Fort Worth (2), Irving, Mansfield, Mesquite, Plano, and Southlake.

6. Texas SmartScape Plant List Update

The Texas SmartScape plant list was created in 2001. As environments, plants, and plant availability change over time, the PETF decided it was time to update the current Texas SmartScape plant list. The update was kicked off by NCTCOG staff in July 2014 with a team of plant experts from Berry Nurseries (a Home Depot grower), the City of Plano, Tarrant Regional Water District, Texas A&M AgriLife, Texas Trees Foundation, Tree Town USA (a Home Depot grower), and Weston Gardens, with preliminary assistance from the City of Fort Worth. The project is still in progress.

7. DART Message Boards

Public service announcements (PSAs) with Texas SmartScape images and water conservation messaging were placed on the Dallas Area Rapid Transit (DART) bus message boards during 2014. The PSAs were placed on a few buses starting in March 2014; by June, 479 buses were broadcasting the messages. (This PSA was terminated in November 2014.)

Pet Waste

The purpose of the pet waste management campaign, known as "DOO the Right Thing!", is to educate dog owners about the importance of picking up dog waste and disposing of it properly, and to help persuade dog owners to adopt these practices. The campaign was primarily promoted during the months of April, May, June, and July; however, activities occurring outside these months falling in the August 13, 2013, to December 31, 2014, time period are included.

1. Bookmarks

The dog waste bookmarks were developed in 2006 and updated in 2012. Each bookmark has a photo of a dog on the front with the slogan "For the love of your pet, please DOO the right thing!" On the back of the bookmarks, there is a description about how pet waste left on the ground can be carried away by stormwater runoff, and that pet waste can contain bacteria and parasites that can harm humans and other pets. The bookmarks also offer tips for dealing with pet waste.

A total of 9,060 bookmarks were cooperatively purchased in April 2014 for the purpose of distribution by the following 11 cities: Azle, Bedford, Burleson, Carrollton, Dallas, Duncanville, Fort Worth, Frisco, Mansfield, North Richland Hills, and Rockwall.

2. Dog-Waste-Bag Dispensers

A total of 7,000 dog-waste-bag dispensers were cooperatively purchased in April 2014 for the purpose of distributing by the following 9 cities: Azle, Bedford, Burleson, Dallas, Fort Worth, Garland, Mansfield, Richardson, and Wylie. Those organizations that participated in this order customized their artwork to include their logo and/or website. The bag dispensers are intended to be attached to the dog's leash so that owners always have a supply of bags to pick up after their dog(s) while on a walk.

3. Web Page

A web page (www.dfwstormwater.com/petwaste) was created in 2006 to provide additional information to dog owners about the importance of picking up their dog's waste and disposing of it properly. The health risks and water quality issues associated with leaving dog waste on the ground is discussed on this web page. Tips for dealing with dog waste and sources for additional information are also provided. Updates to the web page were made in July 2013.

Table 3: User statistics for the pet waste web page (www.dfwstormwater.com/petwaste) by month.

Month	Users	Page Views	Average Time on Page
August 13-31, 2013	125	136	3:45
September 2013	171	211	2:14
October 2013	35	43	1:58
November 2013	26	35	2:14
December 2013	16	18	0:46
January 2014	42	48	3:07
February 2014	45	60	5:07
March 2014	39	44	1:43
April 2014	41	44	4:01
May 2014	94	126	3:35
June 2014	76	103	3:11
July 2014	54	60	3:28
August 2014	95	114	4:29
September 2014	41	47	3:37
October 2014	31	38	1:47
November 2014	22	25	4:15
December 2014	24	30	3:16
Total	977	1,182	Avg.: 3:20

Google Analytics captures the user's city in a report that uses statistical sampling. That report shows the following user numbers for stormwater program participants during the August 13, 2013, to December 31, 2014, time period: Allen (17), Arlington (59), Azle (33), Bedford (8), Burleson (3), Carrollton (36), Cleburne (14), Colleyville (8), Coppell (3), Dallas (72), Denton (3), Euless (31), Fort Worth (220), Frisco (45), Garland (3), Grand Prairie (3), Grapevine (8), Hurst (145), Irving (25), Lewisville (6), Mansfield (6), McKinney (11), North Richland Hills (11), Plano (72), Richardson (3), Rockwall (3), Sherman (3), Southlake (20), Trophy Club (3), University Park (3), and Wylie (14).

4. Online Pledges

Dog owners were encouraged to take an online pledge (posted to www.dfwstormwater.com/petwaste) promising to pick up after their dog(s) and dispose of the waste properly. Only pledges received during the August 13, 2013, to December 31, 2014, reporting period are recorded here. This was promoted mostly during the months of May to July 2014.

A total of 48 pledges were collected through NCTCOG's online system. The pledges came from residents from the following cities/towns: Azle (4), Bedford (11), Burleson (2), Carrollton (1), Denton (10), Fort Worth (3), Frisco (2), Grapevine (1), Irving (1), Lakeside (8), Ocala (1), Pilot Point (1), Plano (1), Prosper (1), and Shady Shores (1).

5. Photos/Doo the Right Thing Calendar

Dog owners who took the pledge were invited to submit a photo of their dog to be entered in the "cutest dog photo contest" on the project website (www.dfwstormwater.com/petwaste). Photos were accepted only during the months of May, June, and July 2014.

A total of 48 photos were collected during the reporting period via the recommendations of the website and/or by local governments or other organizations. The Task Force voted for 12 finalists and a calendar was made with the winning contestants. This was made available to stormwater program participants and the public as a digital file, posted on www.dfwstormwater.com/petwaste and www.nctcog.org/envir/SEEclean/stormwater/pubs/index.asp. Organizations could print this file and distribute the calendar.

6. Planning Tools

A press release template was made available to the Task Force in May 2014 to customize and distribute as desired.

Yard Waste

The purpose of the leaf/yard waste management campaign is to educate the public about the importance of properly disposing of fallen tree leaves and other yard waste (e.g., grass clippings) and for the public to adopt environmentally friendly practices (not to blow or sweep yard waste in the streets, sidewalks, driveways, or down the storm drain, but to instead leave it on the lawn or compost).

1. Brochures

Yard waste brochures were developed in September 2007 to target landscape maintenance companies and in September 2008 to target homeowners. These brochures seek to show landscape maintenance companies and homeowners how to save time and money and still have a beautiful yard. The reasons mentioned in the brochures for keeping fallen tree leaves, grass clippings, and other yard waste off the street, sidewalk, driveway, and out of the storm drain are to: do less work, save money, avoid a ticket, and be environmentally friendly. Homeowners and landscape maintenance companies are instead encouraged to leave the yard waste on the lawn or compost it. These brochures were developed in English and Spanish.

A total of 5,050 brochures, 200 targeting landscape maintenance companies (100 in English and 100 in Spanish) and 4,850 targeting homeowners (4,800 in English and 50 in Spanish) were purchased as part of the annual cooperative purchase in April 2014 by the following 4 cities: Azle, Bedford, Frisco, and Watauga.

2. Web Page

A web page (www.dfwstormwater.com/yardwaste) was created in September 2008 to provide additional information to both homeowners and landscape maintenance companies about the importance of properly disposing of fallen tree leaves and other yard waste. This web address is also included on the back of the yard waste brochures.

Table 4: User statistics for the yard waste web page (www.dfwstormwater.com/yardwaste) by month.

Month	Users	Page Views	Average Time on Page
August 13-31, 2013	3	5	0:50
September 2013	3	6	1:14
October 2013	8	8	5:58
November 2013	4	5	1:57
December 2013	2	2	0:13
January 2014	0	0	0:00
February 2014	6	7	1:12
March 2014	3	3	3:14
April 2014	7	7	1:15
May 2014	5	6	3:02
June 2014	2	2	0:32
July 2014	4	4	0:48
August 2014	7	8	2:57
September 2014	5	6	1:02
October 2014	3	4	2:39
November 2014	4	5	2:54
December 2014	6	10	2:39
Total	72	88	Avg.: 1:58

Google Analytics captures the user's city in a report that uses statistical sampling. That report shows the following user numbers for stormwater program participant cities for the August 13, 2013, to December 31, 2014, time period: Arlington (6), Carrollton (3), Colleyville (3), Coppell (3), Duncanville (3), Hurst (3), Fort Worth (11), and North Richland Hills (3).

3. Public Service Announcement

NCTCOG continued to make available a 30-second yard waste ("leave it on the lawn") public service announcement (PSA) developed by the City of Dallas and WFAA for interested organizations. This PSA encourages viewers to keep grass clippings out of the storm drain by sweeping them off of streets, sidewalks, and driveways and back onto the lawn. It also informs viewers that when it rains, grass clippings and other pollutants can be washed down the storm drain, eventually ending up in lakes, rivers, and creeks. Some of the issues related to water quality (e.g., leading to an overgrowth of algae) and flooding (e.g., clogging inlets and pipes) are mentioned.

4. Yard Waste Videos

Two yard waste videos, "Water Conservation and Sprinkler Maintenance" and "Yard Waste Management" were added to the website. These videos are roughly 1 minute 30 seconds in duration. The Water Conservation video provides information about how residents should water their lawn to conserve water while suggesting useful tips on sprinkler maintenance. The Yard Waste Management video educates residents on the importance of properly handling yard waste. It encourages viewers to refrain from sweeping or blowing grass clippings and leaves into the storm drain. Both videos are available in English or Spanish.

Fats, Oils, and Grease

The PETF has an interest in educating the public about the importance of properly disposing of fats, oils, and grease (FOG) and to adopt these methods, and has partnered up with the North Texas Grease Abatement Council (NTGAC) on FOG-related educational efforts. NTGAC's mission is to educate North Texans about the effects of pouring FOG down the drain. The

NTGAC is an educational partnership between municipalities and water utilities in North Texas and is supported through a different program area.

The NTGAC continued to make several educational materials and tools available to PETF participants. The NTGAC has developed three videos that the PETF can use. The videos target apartment dwellers, restaurant staff, and residential homeowners. The NTGAC also completely updated its website in 2013 and PETF members are encouraged to refer to it. Several FOG-related items were also available for purchase in the annual cooperative purchase as described below.

1. Fat Trapper Bags

A total of 7,200 fat trapper bags were cooperatively purchased in April 2014 for the purpose of distributing by the following 8 cities: Bedford, Duncanville, Garland, Hurst, Mansfield, Plano, Richardson, and Rockwall.

2. FOG Funnels

A total of 793 FOG funnels were cooperatively purchased in April 2014 for the purpose of distributing by the following 3 cities: Hurst, McKinney, and Wylie.

3. FOG Door Hangers

A total of 1,725 FOG door hangers were cooperatively purchased in April 2014 for the purpose of distributing by the following 4 cities: Grapevine, Hurst, Mansfield, and North Richland Hills.

4. Grease Lids

A total of 3,480 grease lids were cooperatively purchased in April 2014 for the purpose of distributing by the following 6 cities: Bedford, Duncanville, Hurst, Plano, Richardson, and Rockwall.

Educator's Toolbox

The educator's toolbox was developed by the PETF as a FY2013 project. Members of the PETF are often asked to give presentations to schools about stormwater, and this gives them options of learning activities to choose from instead of re-inventing the wheel. The Stormwater Quiz Show Game and Game Editor are available online at www.nctcog.org/envir/SEEclean/stormwater/program-areas/public_education/stormwatergame.asp.

Educational Videos for Children

The PETF decided to develop two educational videos, each 3-5 minutes in length, for its FY2014 project.

The first is geared toward elementary school-age kids, teaching them about stormwater runoff and informing them that only rainwater should go down the storm drain. The video also aims to make children aware that their actions, and those of their friends and parents, can affect water quality. To capture the children's attention, the video features a cartoon fish character, Freddy, as the host. This complements the "Freddy the Fish" lessons presented by some city educators. This video has been finalized and is ready to be distributed once approved by the Regional Stormwater Management Coordinating Council.

The second video is geared toward high-school students with a similar goal as the first. The main takeaway is that the sanitary sewer and storm drain systems are different, that small actions can

pollute our water bodies, and that we are all responsible for keeping our waters clean. The work on this video is still in progress.

Other

1. PETF Meetings

Stormwater program participants and other interested organizations were invited to attend 4 meetings to discuss the above campaigns as well as other opportunities for regional cooperation. Each meeting concluded with a municipal roundtable in which representatives had the opportunity to discuss initiatives going on in their communities and/or ask for assistance on specific issues.

- The first meeting was held September 26, 2013. The sign-in sheet/participation record is unavailable.
- The second meeting was held December 4, 2013. This meeting was attended by 6 people representing the following 6 organizations: City of Allen, City of Arlington, City of Burleson, City of Carrollton, City of Fort Worth, and City of Richardson.
- The third meeting was held February 5, 2014. This meeting was attended by 13 people representing the following 13 organizations: City of Bedford, Collin County, City of Dallas, Dallas Fort-Worth (DFW) Airport, City of Euless, City of Fort Worth, City of Garland, City of Grand Prairie, City of Irving, City of Mansfield, City of North Richland Hills, North Texas Tollway Authority, and City of Richardson.
- The fourth meeting was held May 1, 2014. This meeting was attended by 9 people representing the following 8 organizations: City of Allen, City of Burleson, Collin County, City of Dallas, City of Grapevine, Town of Highland Park, City of Irving, and City of Plano (2).
- The fifth meeting was held August 13, 2014. This meeting was attended by 18 people representing the following 16 organizations: City of Arlington, City of Bedford, City of Burleson, City of Dallas (2), City of Fort Worth, City of Frisco (2), City of Garland, City of Grand Prairie, City of Grapevine, City of Irving, City of Mansfield, North Texas Tollway Authority, City of Plano, City of Richardson, Tarrant Regional Water District, and Texas A&M Extension.
- The sixth meeting was held October 7, 2014. This meeting was attended by 16 people representing the following 14 organizations: City of Allen, City of Arlington, City of Burleson, City of Carrollton, City of Dallas, Dallas Fort-Worth (DFW) Airport, City of Fort Worth, City of Frisco (3), City of Grapevine, Town of Highland Park, North Texas Tollway Authority, City of Plano, City of Richardson, and Tarrant Regional Water District.

2. Stormwater Education Events Calendar

The purpose of the Stormwater Education Events Calendar (www.nctcog.org/envir/SEEclean/stormwater/meetings/calendar/index.asp) is to provide a common location for organizations to post information about upcoming stormwater-related events going on across the region. A total of 8 stormwater-related events were posted to this calendar. The following 3 organizations hosted these events: Dallas Water Utilities (2), City of Fort Worth (2), and City of Mansfield (4).

See item 5 under "Lawn and Garden Care" for Texas SmartScape-related events.

3. Annual Cooperative Purchase

To maximize group savings for program participants, the Regional Stormwater Management Program conducts one purchase annually of several education and outreach-related items. The goal is to combine as many orders as possible to achieve the lowest unit cost. The items cooperatively purchased in April 2014 for the purpose of distributing, displaying, and/or installing are listed in the following table.

Table 5: Items purchased in the Fiscal Year 2014 cooperative purchase and those organizations that purchased them.

Item	Qty.	Purchased By
Texas SmartScape bookmarks (see item 1 under the "Lawn and Garden Care" section)		
Dog waste bookmarks (see item 1 under the "Pet Waste" section)		
Dog-waste-bag dispensers (see item 2 under the "Pet Waste" section)		
Yard waste brochures (see item 1 under the "Yard Waste" section)		
Fat trapper bags (see item 1 under the "Fats, Oils, and Grease" section)		
FOG funnels (see item 2 under the "Fats, Oils, and Grease" section)		
FOG door hangers (see item 3 under the "Fats, Oils, and Grease" section)		
Grease lids (see item 4 under the "Fats, Oils, and Grease" section)		
Zip-its	624	City of Bedford, City of Duncanville, City of Hurst, and City of Richardson
Plastic curb markers	7,470	City of Allen, City of Azle, City of Frisco, City of Grand Prairie, Town of Highland Park, City of Hurst, City of North Richland Hills, City of Watauga, and City of Wylie
Aluminum curb markers	1,000	City of McKinney
Pollution prevention municipal training posters	18	Town of Highland Park and City of Hurst
Captain Crud activity books	450	City of Duncanville and City of Mansfield
USB car chargers	158	City of North Richland Hills
Ammonia nitrogen kit	1	City of Grand Prairie

Inlet Marker Order

Ship To
ATTN:
CITY OF ROCKWALL
385 S. GOLIAD
ROCKWALL, TX 75087

Bill To
ATTN: ACCOUNTS PAYABLE
385 S. GOLIAD
ROCKWALL, TX 75087

No. 2015-00000207

DATE 10/29/2014

VENDOR 11563 - ALMETEK INDUSTRIES

Reprint Purchase Order

Contact
ALMETEK INDUSTRIES
2 JOY DRIVE
HACKETTSTOWN, NJ 07840

Receiving Hours
8:00 am to 4:30 pm CST
Monday - Friday

DELIVER BY
SHIP VIA BEST
FREIGHT TERMS FOBD
PAGE **1 of 1**
ORIGINATOR: Lea Ann Ewing

REFERENCE #

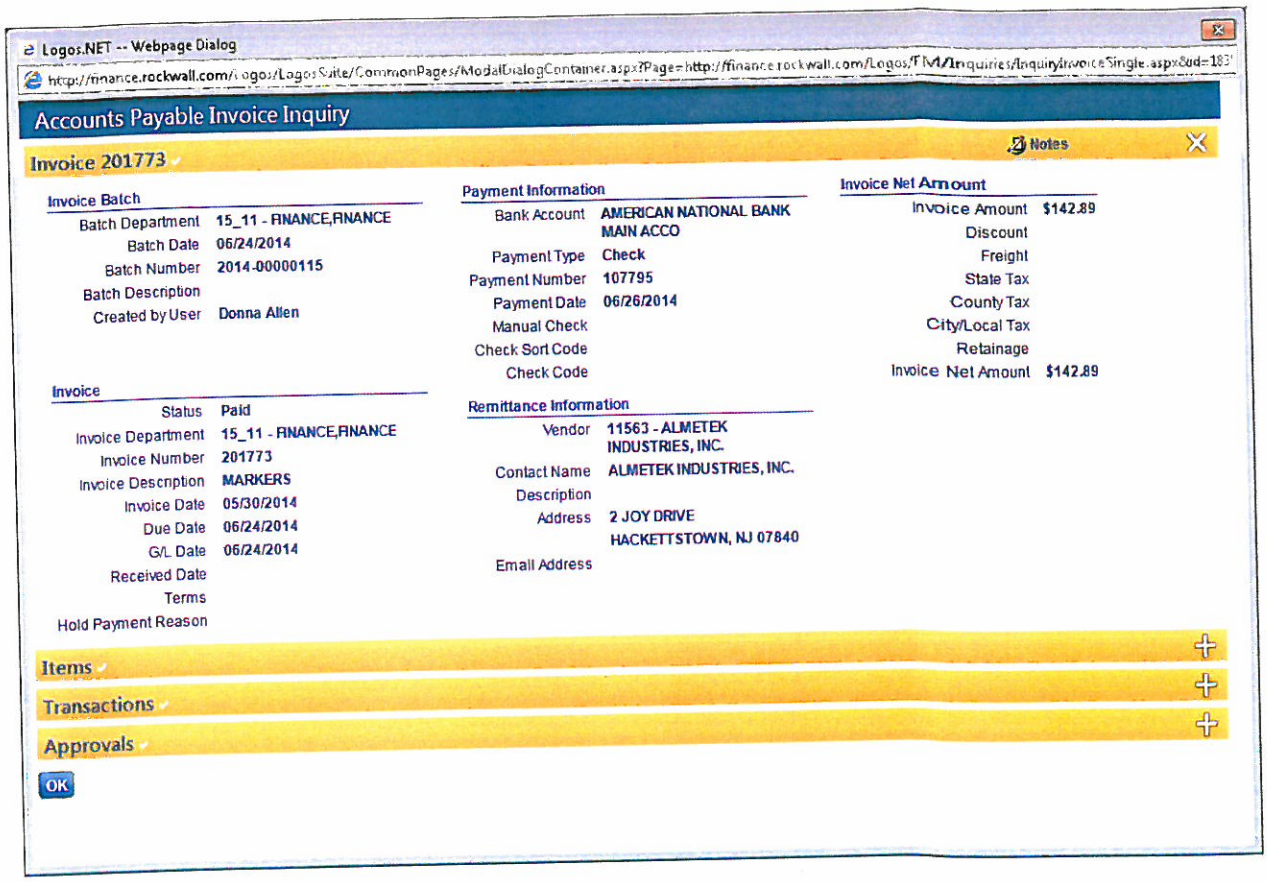
QUANTITY	UNIT	DESCRIPTION	STATUS	UNIT COST	TOTAL COST
1.0000	Each	Item - Markers	Open	5,223.0400	$5,223.04
				TOTAL DUE	$5,223.04

DIRECT INQUIRIES TO:
PURCHASING AGENT
Lewing@rockwall.com

Shannon Raymond for LAE
Authorized Signature

1. Submit invoices to the Bill To address at the top of the page, ATTN: Accounts Payable. PO Number must appear on all invoices, shippers, bill of landing and correspondence.
2. Shipments will be refused if shipped COD, Collect and if the PO number is not shown on the shippers and bill of landing.
3. Exempt from State/Local Sales Taxes. Federal Tax ID 75-6000652.

Special Instructions


Logos.NET -- Webpage Dialog
Accounts Payable Invoice Inquiry
Notes
Invoice 201773
Invoice Batch
Batch Department 15_11 - FINANCE,FINANCE
Batch Date 06/24/2014
Batch Number 2014-00000115
Batch Description
Created by User Donna Allen
Invoice
Status Paid
Invoice Department 15_11 - FINANCE,FINANCE
Invoice Number 201773
Invoice Description MARKERS
Invoice Date 05/30/2014
Due Date 06/24/2014
G/L Date 06/24/2014
Received Date
Terms
Hold Payment Reason
Payment Information
Bank Account AMERICAN NATIONAL BANK MAIN ACCO
Payment Type Check
Payment Number 107795
Payment Date 06/26/2014
Manual Check
Check Sort Code
Check Code
Remittance Information
Vendor 11563 - ALMETEK INDUSTRIES, INC.
Contact Name ALMETEK INDUSTRIES, INC.
Description
Address 2 JOY DRIVE
HACKETTSTOWN, NJ 07840
Email Address
Invoice Net Amount
Invoice Amount $142.89
Discount
Freight
State Tax
County Tax
City/Local Tax
Retainage
Invoice Net Amount $142.89
Items
Transactions
Approvals
OK

Storm Sewer Outfall Map

CRM Trak Report of Drainage Reports through TrakIT Software

CRM Trak Report

Advanced Issue Query

For the Period 1/1/2014 thru 12/1/2014

Issue No.	Submitted	Due	Nature / Type	Category	Assigned	Created Via	Status	Completed Date	Issue Title
ISU1401-0004	1/8/2014	1/24/2014	Clogged Storm Drain	Streets & Drainage	Mario Aguilar	Phone Call	Received	1/13/2014	Clogged Storm Drain @ 505 ROGERS WAY

Description: Issue Address/Location
505 ROGERS WAY
Clogged Storm Drain
Issue Details DRAIN SEEMS TO BE CLOGGED CAUSING IT TO BACK UP INTO THE FRONT YARD
Follow-up call No

Resolution: This item was a sewer stop There was no storm sewer near the house This item was referred to sewer dept

IH 1/8/2014 Issue Created
IH 1/8/2014 Assigned to Marcie Pickard
IH 1/8/2014 Assigned to Mario Aguilar
IH 1/8/2014 Status Changed to Received
IH 1/8/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Service Request Work Order - 505 ROGERS WAY - Clogged Storm Drain
IH 1/8/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Service Request Work Order - 505 ROGERS WAY - Clogged Storm Drain
IH 1/8/2014 Sent Email to user William Gray (wgray@rockwall com) - Service Request Work Order - 505 ROGERS WAY - Clogged Storm Drain
IH 1/13/2014 <<< ISSUE COMPLETED >>>

Issue No.	Submitted	Due	Nature / Type	Category	Assigned	Created Via	Status	Completed Date	Issue Title
ISU1402-0007	2/17/2014	3/5/2014	Storm Sewer Lid Loose	Streets & Drainage	Mario Aguilar	Phone Call	Received	2/17/2014	Storm Sewer Lid Loose or Missing @ Squaw Valley & N Lakesho

Description: Junction of Squaw Valley & N Lakeshore Alley
Other
Issue Details SAFETY HAZARD - storm grate in alley junction dislodged creating fall/trip hazard and tire damage hazard Please consider welding the grates to the iron frame in place or some other securement solution to eliminate this recurring issue
Follow-up call No

Resolution: Task Completed 2-17-14

IH 2/17/2014 Issue Created
IH 2/17/2014 Assigned to Marcie Pickard
IH 2/17/2014 Assigned to Mario Aguilar
IH 2/17/2014 Status Changed to Received
IH 2/17/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Service Request Work Order - Squaw Valley & N Lakeshore Alley - Storm Sewer Lid Loose or Missing
IH 2/17/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Service Request Work Order - Squaw Valley & N Lakeshore Alley - Storm Sewer Lid Loose or Missing
IH 2/17/2014 Sent Email to user William Gray (wgray@rockwall com) - Service Request Work Order - Squaw Valley & N Lakeshore Alley - Storm Sewer Lid Loose or Missing
IH 2/24/2014 <<< ISSUE COMPLETED >>>

Issue No.	Submitted	Due	Nature / Type	Category	Assigned	Created Via	Status	Completed Date	Issue Title
ISU1403-0010	3/17/2014	4/2/2014	Debris in Drainage Ditcl	Streets & Drainage	Mario Aguilar	Phone Call	Received	5/30/2014	Debris in Drainage Ditch @ 1027 Breezy Hill

Description: Breezy Hill
Debris in Drainage Ditch
Doug Morris, 214-384-8975

Resolution: Closed

IH 3/17/2014 Issue Created
IH 3/17/2014 Assigned to Marcie Pickard
IH 3/17/2014 Assigned to Mario Aguilar
IH 3/17/2014 Status Changed to Received
IH 3/17/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department
IH 3/17/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department

Issue No.	Submitted	Due	Nature / Type	Category	Assigned	Created Via	Status	Completed Date	Issue Title
IH 5/30/2014 <<< ISSUE COMPLETED >>>									
ISU1404-0009	4/7/2014	4/23/2014	Clogged Storm Drain	Streets & Drainage	Mario Aguilar	Phone Call	Received	4/7/2014	Storm drain not seated properly

Description: A lady told me about a storm drain across from 2190 Fieldcrest with the cover not seated I checked and she's right Just needs someone with a key to drop it Could you send someone to do it? I would have but I don't have a key Thank you

Resolution: This work order was completed on 4-7-14. We installed the storm lid back in its proper place

IH 4/7/2014 Issue Created
IH 4/7/2014 Assigned to Marcie Pickard
IH 4/7/2014 Assigned to Mario Aguilar
IH 4/7/2014 Status Changed to Received
IH 4/7/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department
IH 4/7/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department
IH 4/7/2014 Sent Email to user Ricky Castillo (rcastillo@rockwall com) - Issue submittal to Ricky Castillo of STREET Department
IH 4/14/2014 <<< ISSUE COMPLETED >>>

ISU1405-0002	5/6/2014	5/22/2014	Debris in Drainage Ditch	Streets & Drainage	Mario Aguilar	Phone Call	Received	5/6/2014	Debris in Drainage Ditch @ 505 Bessie St

Description: Requested By Milton Hillgartner
Address 505 Bessie street
Phone 9727711695
Email milt0ne@prodigy net
Issue Address/Location
505 Bessie street
Debris in Drainage Ditch
Issue Details When the streets were paved in our neighborhood there was a drainage problem at the end of Bessie St to the point where our yard was being washed away during a rain storm the city engineer asked permission to put in a drainage ditch at the edge of our yard to allow run off of rainwater That drainage ditch is filled with mud and leaves from all over the neighborhood and no longer provides drainage I've cleaned most of the leaves but it needs to have the dirt that I haven't been able to remove cleaned out Thank you in advance
Follow-up call No

Resolution: Task Completed 5-6-14 - 505 Bessie St - Debris in drainage ditch (MARIO)

IH 5/6/2014 Issue Created
IH 5/6/2014 Assigned to Marcie Pickard
IH 5/6/2014 Assigned to Mario Aguilar
IH 5/6/2014 Status Changed to Received
IH 5/6/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department
IH 5/6/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department
IH 5/6/2014 Sent Email to user Ricky Castillo (rcastillo@rockwall com) - Issue submittal to Ricky Castillo of STREET Department
IH 5/30/2014 <<< ISSUE COMPLETED >>>

ISU1405-0004	5/8/2014	5/24/2014	Clogged Storm Drain	Streets & Drainage	Mario Aguilar	Phone Call	Received		House Flooding

Description: 5-8-14 - 387 Bass Rd - House flooding - Contact Alex, 214 434 2521

Resolution:

IH 5/8/2014 Issue Created
IH 5/8/2014 Assigned to Marcie Pickard

Issue No.	Submitted	Due	Nature / Type	Category	Assigned	Created Via	Status	Completed Date	Issue Title

IH 5/8/2014 Assigned to Mario Aguilar
IH 5/8/2014 Status Changed to Received
IH 5/8/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department
IH 5/8/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department
IH 5/8/2014 Sent Email to user Ricky Castillo (rcastillo@rockwall com) - Issue submittal to Ricky Castillo of STREET Department

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ISU1405-00105/12/2014 5/28/2014 Clogged Storm Drain Streets & Drainage Mario Aguilar Phone Call Received 5/12/2014 Clogged Storm Drain @ 2750 fern valley lane

Description: Requested By Jody spedden
Address 2750 fern valley lane
Phone 8433279270
Email Jody spedden@att net
Issue Address/Location
2750 fern valley lane
Clogged Storm Drain
Issue Details The drain at end of my driveway constantly has standing water After storms yesterday the cover is missing There is orange cone in it so nobody drives over it or steps in it
Follow-up call No

Resolution: Mario reported that it was a meter can cover that was missing Shon Bellah is going to take care of it

IH 5/12/2014 Issue Created
IH 5/12/2014 Assigned to Marcie Pickard
IH 5/12/2014 Assigned to Mario Aguilar
IH 5/12/2014 Status Changed to Received
IH 5/12/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department
IH 5/12/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department
IH 5/12/2014 Sent Email to user Ricky Castillo (rcastillo@rockwall com) - Issue submittal to Ricky Castillo of STREET Department
IH 5/12/2014 <<< ISSUE COMPLETED >>>

ISU1405-00115/12/2014 5/28/2014 Clogged Storm Drain Streets & Drainage Mario Aguilar Phone Call Received 5/27/2014 Clogged Storm Drain @ 157 Lakeside Drive

Description: 5-12-14 - 157 Lakeside Drive - Storm drain clogged Said water was backed up and not flowing out the other side of drainage pipe Contact Lenore Smith, 949 698 3241

Resolution: 5-27-14 closed on Tue 5/27/2014

IH 5/12/2014 Issue Created
IH 5/12/2014 Assigned to Marcie Pickard
IH 5/12/2014 Assigned to Mario Aguilar
IH 5/12/2014 Status Changed to Received
IH 5/12/2014 Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department
IH 5/12/2014 Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department
IH 5/12/2014 Sent Email to user Ricky Castillo (rcastillo@rockwall com) - Issue submittal to Ricky Castillo of STREET Department
IH 5/27/2014 <<< ISSUE COMPLETED >>>

ISU1408-00098/27/2014 9/12/2014 Clogged Storm Drain Streets & Drainage Mario Aguilar Phone Call Received Clogged Storm Drain @ 589 Primrose

Description: 8-27-14 - 589 Primrose - storm drain in alley is damaged and sinking Contact Eric Dickerson, 214 707 4393

Resolution:

CRM Trak Report
Advanced Issue Query
For the Period 1/1/2014 thru 12/1/2014

Issue No.	Submitted	Due	Nature / Type	Category	Assigned	Created Via	Status	Completed Date	Issue Title
IH	8/27/2014	Issue Created							
IH	8/27/2014	Assigned to Marcie Pickard							
IH	8/27/2014	Assigned to Mario Aguilar							
IH	8/27/2014	Status Changed to Received							
IH	8/27/2014	Sent Email to user Billy Chaffin (bchaffin@rockwall com) - Issue submittal to Billy Chaffin of STREET Department							
IH	8/27/2014	Sent Email to user Mario Aguilar (maguilar@rockwall com) - Issue submittal to Mario Aguilar of STREET Department							
IH	8/27/2014	Sent Email to user Ricky Castillo (rcastillo@rockwall com) - Issue submittal to Ricky Castillo of STREET Department							

Total Issues: 9

Training Certificates

North Central Texas Council of Governments

Regional Training Center

Be it known that on September 26, 2013

Tim Duke

Has successfully completed the required curriculum for

Stormwater Pollution Prevention Practices During Construction

Executive Director

Director of Regional Training

Hours: 6.00

North Central Texas Council of Governments

Regional Training Center

Be it known that on September 26, 2013

Scott Schenkel

Has successfully completed the required curriculum for

Stormwater Pollution Prevention Practices During Construction

Executive Director

Director of Regional Training

Hours: 6.00

CERTIFIED STORMWATER INSPECTOR

TRAINING IN THE FOLLOWING CATEGORIES

PERMIT COMPLIANCE
INDUSTRIAL
CONSTRUCTION
MUNICIPAL

NPDES CERTIFIED STORMWATER INSPECTOR NATIONAL STORMWATER CENTER

MUNICIPAL INSPECTIONS
COMMERCIAL
INDUSTRIAL
CONSTRUCTION
POLLUTION PREVENTION
ILLICIT DISCHARGE

THIS CERTIFICATE AND 1.2 CEUs(12 TRAINING HOURS) AWARDED TO

JIM RAINES

IN RECOGNITION OF HAVING COMPLETED ALL REQUIREMENTS OF THE CERTIFIED STORMWATER INSPECTOR COURSE BY THE NATIONAL STORMWATER CENTER. THIS CERTIFICATION IS EFFECTIVE FOR A PERIOD OF FIVE YEARS.

Michele Lomax	5610	APRIL 11, 2014
MICHELE LOMAX, DIRECTOR OF OPERATIONS	CERTIFICATE NUMBER	DATE

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