

THE STORM WATER READER

December 2010

CARROLLTON'S STORM WATER MANAGEMENT PROGRAM AND THE DEPARTMENTS THAT HELP IMPLEMENT IT



Did You Know?

Every employee is important in helping the city implement its storm water management plan both at work and at home by reporting polluters and not being a polluter!

As you know, the City has a permit from the Texas Commission on Environmental Quality (TCEQ) to discharge its rainwater to the waters of the state. The waters of the state include creeks, lakes and rivers. The City is currently in the fourth year of the permit.

What you may not know is that most city departments have key roles in implementing the city's Storm Water Management Program (SWMP). Most of the activities listed in the SWMP are what departments already had in place.

The minimum control measures (MCMs) of the SWMP are:

- ◆ Public Education
- ◆ Public Involvement
- ◆ Illicit Discharge Detection and Elimination (IDDE)
- ◆ Construction Site Runoff Control
- ◆ Post Construction Runoff Control
- ◆ Pollution Prevention/Good Housekeeping for Municipal Facilities

Development Services

Building Inspection and Planning divisions mainly deal with construction and post construction runoff control. Building Inspection also contributes to the education of contractors and the detection and elimination of illicit discharges. Building Inspection does:

- ◆ Site plan reviews and site inspections to ensure no illicit connections to the storm drains
- ◆ Reviews of the Storm Water Pollution Prevention Plan (SWPPP) from each construction operator
- ◆ Preconstruction meetings on all projects, including the distribution and education of each builder on the storm water requirements for each project
- ◆ Construction site inspections to ensure that the operators are

implementing erosion and sediment controls

- ◆ Response to citizen complaints related to storm water and construction sites
- ◆ Reviews of the subdivision ordinance and the General Design Standards
- ◆ Implementation of the green space preservation policy
- ◆ Landscaping with native or adapted plants at City facilities
- ◆ Employs a licensed pesticide applicator and irrigator

Engineering

Engineering contributes to the construction and post construction runoff control measures. In addition, they also play a role in IDDE and the public education of contractors. Engineering conducts the following:

- ◆ Site plan reviews and construction site inspections to ensure no illicit connections to the storm drain system
- ◆ Reviews of the Storm Water Pollution Prevention Plans from each construction operator
- ◆ Preconstruction meetings on all projects, including the distribution and education of each builder on the storm water requirements for each project
- ◆ Construction site inspections to ensure that the operators are implementing erosion and sediment controls
- ◆ Response to citizen complaints related to storm water and construction sites
- ◆ Reviews of the subdivision ordinance and the General Design Standards
- ◆ Updates to the storm sewer maps with new or corrected information



CARROLLTON'S SWMP AND THE DEPARTMENTS THAT HELP IMPLEMENT IT (CONTINUED)

Environmental Services

Animal Services, Community Services and Environmental Quality divisions all participate in implementing the six minimum control measures (MCMs) of the storm water program. Their pollution prevention activities include:

- ◆ Public presentations/special events to educate on storm water pollution, illegal discharges, proper disposal of wastes and reducing pollution in storm water
- ◆ Distributing storm water education materials and giveaways to citizens, visitors, businesses, commercial & industrial facilities, construction site personnel and city staff
- ◆ Promoting “March is Texas Smartscape” month
- ◆ Implementing the storm drain marking campaign to mark storm drain inlets with markers that say “Don’t Dump, Flows to Creek”
- ◆ Pet Waste education and enforcing the pet waste removal ordinance
- ◆ Maintaining the Environmental Services website
- ◆ Facilitating a Citizen Advisory Committee annual meeting.
- ◆ Verifying all storm water outfalls in Carrollton
- ◆ Developing, implementing and enforcing an ordinance which prohibits illicit discharges
- ◆ Abating illegal dumping and enforcing the city’s illegal dumping ordinance
- ◆ Implementing Dry Weather Screening to detect and eliminate illicit discharges through monitoring outfalls
- ◆ Implementing the city’s spill response procedures



- ◆ Maintaining a hotline for citizens to report complaints and illicit discharges
- ◆ Responding to complaints from citizens
- ◆ Tracking and inspecting industrial facilities
- ◆ Inspecting commercial facilities, grease traps and outdoor areas
- ◆ Inspecting apartment complexes for storm water violations and providing education to managers
- ◆ Tracking and inspecting grease traps and liquid waste haulers
- ◆ Participating in a program where residents can dispose of their household hazardous waste items and hosting a recycling events
- ◆ Providing applicable storm water training to departments
- ◆ Developing, implementing and enforcing an ordinance for construction sites to use erosion and sediment controls and control wastes
- ◆ Implementing a plan to address leaks from vehicles during daily use by an employee
- ◆ Applying for the city’s storm water permit and following all applicable rules listed in the permit, including submittal of an annual report



Fire Department

The Fire Department is usually the first responder to hazardous spills and discharges. They perform the necessary cleanup when possible or contain the spills so these do not enter the storm drain system. The Fire Department has also made changes to their training so they are not discharging chlorinated water into the storm system or the creeks.



Facility Services

Facility Services established activities that were included in SWMP under Pollution Prevention/Good Housekeeping.



These activities consist of:

- ◆ Inspecting municipal buildings and parking lots
- ◆ Recycling of a number of items that would otherwise end up in a landfill
- ◆ Quarterly inspections of the Indian Creek Golf Course
- ◆ Maintenance of a pumping schedule for city grease and grit traps according to city ordinances

Fleet Services—All Star

Fleet Services had implemented best management practices that are included in the SWMP and All Star continues to implement them. All Stars activities are included under Pollution Prevention/Good Housekeeping. These activities are:



- ◆ Recycling of all used oil, used oil filters, antifreeze, tires, batteries and spent solvent
- ◆ Inspecting the maintenance areas, waste oil tanks and fuel stations
- ◆ Implementing the spill response plan when needed
- ◆ Washing all vehicles at a covered wash bay equipped with a sand trap which is serviced quarterly
- ◆ Storing parts and materials under cover
- ◆ Maintaining pumping schedule for grit traps according to city ordinances

Indian Creek Golf Course

The ICGC is another department that has activities under Pollution Prevention/Good Housekeeping. They include:

- ◆ Trash pickup about 364 days per year at the golf course

CARROLLTON'S SWMP AND THE DEPARTMENTS THAT HELP IMPLEMENT IT (CONTINUED)

- ◆ Grease and grit trap servicing as required under city ordinance
- ◆ Mowing of the grass outside of the golf course to not below 2.5"
- ◆ Implementing spill response procedures when needed
- ◆ Washing all vehicles at a covered wash bay equipped with a sand trap which is serviced quarterly



IT Department

The IT Department's activities are under IDDE and Pollution Prevention. They implement the recycling program for batteries, cables, aluminum scrap, computer parts, and printer cartridges from IT operations. The IT Department is also involved in updating the storm water maps to show all of the outfalls.



Marketing Services

Marketing Services provides support in implementing much of the city's public education program. Marketing's storm water duties consist of the following:



- ◆ Run storm water related articles in the quarterly newsletter and submit these to other news media for possible publication.
- ◆ Play storm water related cable screens and public service announcements on the cable channel
- ◆ Post articles on the city's website
- ◆ Provide support for advertising of certain events
- ◆ **Parks and Recreation**

Parks and Recreation implements many best management practices that benefit the storm water management program. Their activities fall under a number of MCMs which include Public Education, Public Involvement and Pollution Prevention. Parks and Recreation's activities include:

- ◆ Maintaining pet waste signs in certain parks and greenbelt areas

- ◆ Hosting or participating in at least one creek cleanup event in Carrollton
- ◆ Limiting the mowing height of grass and using the leaf blowers to blow the grass clipping back onto the grass
- ◆ Using mulching mowers
- ◆ Implementing buffer and no mow zones
- ◆ Picking up trash in the greenbelts/parks about 200 days per year
- ◆ Maintaining a certain number of employees who are licensed pesticide applicators and irrigators
- ◆ Storing parts and materials under cover



Police Department

The Police Department is a key to the city detecting illicit discharges or spills that would otherwise not be reported.



Public Works

Public Works has numerous activities and best management practices that contribute to the implementation of the city's SWMP and a wide range of the MCMs. Their activities fall under Public Education, IDDE, Construction Site Run-off Control, Post Construction Run-off Control and Good Housekeeping for Municipal Operations. Their activities are:

- ◆ Distributing grease control information to tenants in apartment complexes and industries every year
- ◆ Providing grease control information in the city's quarterly newsletter or other news media three times a year
- ◆ Giving or participating in 3 presentations or public events on grease control
- ◆ Updating the storm sewer maps with new or corrected information



- ◆ Responding to or assisting with cleanup of applicable spills
- ◆ Collecting at least 9000 pieces of trash from the roadways per year
- ◆ Inspecting and maintaining the sanitary sewer system annually, including cleaning sewer lines, conducting closed circuit TV inspections, smoke and dye testing of lines, inspecting and repairing man-holes, maintaining and updating the 30 day maintenance list
- ◆ Responding to and repairing water main breaks while implementing best management practices to reduce or eliminate chlorinated water from getting into creeks



- ◆ Implementing erosion and sediment controls during construction projects and complies with the state construction requirements when applicable
- ◆ Maintaining the streets by sweeping the major streets monthly and collecting trash from the streets
- ◆ Inspecting the municipal buildings and corresponding parking lots
- ◆ Maintaining the storm water system by inspecting and removing items from inlets and pipes, inspecting and repairing channels and ditches
- ◆ Cleaning 40% of the storm water inlets per year
- ◆ Properly storing and applying sand and deicers



*A solid testimony
To fantastic teamwork
On a truly city-wide effort!*