

Plum Creek Watershed Protection Plan Implementation in the City of Kyle Scope of Work

Problem / Need Statement:

The 2004 Texas Water Quality Inventory and 303(d) List identifies the upper reaches of Plum Creek (Segment 1810) as exceeding the contact recreation standard criterion for *E. coli* bacteria. The lower reaches of Plum Creek also have concerns for nutrients (ammonia, nitrate+nitrite nitrogen, and total phosphorous).

The Texas State Soil and Water Conservation Board (TSSWCB) Wharton Regional Watershed Coordination Steering Committee selected the Plum Creek Watershed for Watershed Protection Plan (WPP) development in December 2005 from a list of prioritized watersheds within the Wharton Region service area. The result was the formation of the Plum Creek WPP, facilitated by the Texas Agrilife Extension Service (TAES, formally known as Texas Cooperative Extension). The Plum Creek Watershed Protection Plan (PCWPP) specifies recommendations for management measures, monitoring, outreach and education initiatives.

Under this work plan, the City of Kyle will provide oversight of the program in the Plum Creek Watershed during the life of the project. Of the many PCWPP stakeholders, the City of Kyle has taken a leading role in working toward improving water quality in the Plum Creek. The City of Kyle, located at the head waters of the Plum Creek drainage basin, is in a unique position to improve the health of the Plum Creek, as it is the most populous city in the Plum Creek Drainage Basin, and any reductions in bacteria or nutrient loads will improve the water quality for the rest of the Plum Creek. In order to be able to make significant improvements, the City of Kyle needs to map its storm sewer and detention system. In addition, the PCWPP identifies the following implementation activities for reducing bacteria and nutrient loads for the City of Kyle: implement pilot detention pond upgrades to improve water quality, implement storm sewer education and awareness, install dog waste stations and implement city street sweeping. The PCWPP can be viewed at <http://pcwp.tamu.edu/>.

General Project Description:

The PCWPP Pilot Implementation Project will enhance water quality in the impaired Plum Creek watershed by focusing on retrofitting detention facilities to improve water quality, education and stenciling of storm sewer inlets, mapping existing storm water facilities, implementing a dog waste collection station program, and coordinating city "housekeeping" activities designed to improve water quality (street sweeping, creek cleanup days, etc). As a part of the city match, data will be collected upstream of the City of Kyle Waste Water Treatment Facility to compare water quality prior to project implementation with water quality after the program implementation. Although not a part of this project, the Guadalupe-Blanco River Authority (GBRA) monitoring sites located downstream of the project area will also be used for data analysis. This project's goal is to improve water quality in the Plum Creek Watershed by facilitating removal of *E.coli* contributors, as well as potential nutrient loads.

Water quality monitoring conducted under this work plan may provide: evidence of the effectiveness of best management practices implemented in the watershed; facilitate timely and efficient responses and investigations; and, document improvements in water quality in the Plum Creek Watershed.

This project will start on the date of execution of the associated contract between the TCEQ and the City of Kyle. The project is scheduled to be completed not later than August 31, 2011.

OBJECTIVE 1: PROJECT ADMINISTRATION

Goal: To effectively coordinate and monitor all technical and financial activities performed under this grant, preparing regular progress reports, and maintaining project files and data.

- Task 1.1** **Project Oversight** – The GRANTEE will provide technical and fiscal oversight of the GRANTEE project staff and/or subgrantee(s)/subcontractor(s) to ensure Tasks and Deliverables are acceptable and completed as scheduled and within budget. With the TCEQ Project Manager’s authorization, the GRANTEE may secure the services of subgrantee(s)/ subcontractor(s) as necessary for technical support, repairs and training. Project oversight status will be provided to the TCEQ with the Quarterly Progress Reports.
- Task 1.2** **Quarterly Progress Reports (QPRs)**- To be submitted to TCEQ by the 15th of the month following each state fiscal quarter for incorporation into the Grant Reporting and Tracking System (GRTS). Progress reports will contain a level of detail sufficient to document the activities that occurred under each task during the quarter, and contain a detailed tracking of deliverable status under each objective.
- Task 1.3** **Reimbursement Forms** - Reimbursement forms will be submitted to the TCEQ by the last day of the month following each state fiscal quarter.
- Task 1.4** **Communication Plan** – The City of Kyle Project Manager will maintain regular telephone and/or email communication with the TCEQ Project Manager regarding the status and progress of the project in regard to any matters that require attention between QPRs. This will include a call or meeting each January, April, July, and October. The GRANTEE Project Manager will attach minutes recording the important items discussed and decisions made in each coordination call with each QPR.. Matters that must be communicated to the TCEQ Project Manager in the interim between QPRs include:
- Requests for prior approval for activities or expenditures requiring approval in advance under this contract or that are not specifically included in the scope of work.
 - Notification in advance when City of Kyle has scheduled public meetings or events, initiation of construction, or other major task activities under this contract
 - Events or circumstances that may require changes to the budget, scope of work, or schedule of deliverables. Such information must be reported within 48 hours of discovering these events or circumstances
- Task 1.5** **Contractor Evaluation** - GRANTEE will participate in an annual Contractor Evaluation.
- Task 1.6** **Project Fact Sheet** – The GRANTEE will develop a one-page fact sheet of the project using the TCEQ NPS Projects Template. The fact sheet will briefly describe what the project is going to accomplish, gives background information on why the project is being conducted, the current status of the project and lists who is involved in the project. The project fact sheet will be submitted to the TCEQ within 60 days after contract initiation. The fact sheet will be updated annually and submitted with the fourth quarter progress report. The fact sheet will be updated more often, as the project status changes. The fact sheet will be published on the GRANTEE’S website after approval from the TCEQ Project Manager.
- Task 1.7** **Annual Report Article** – The GRANTEE will provide an article for the Nonpoint Source Annual Report upon request by TCEQ. This report is produced annually in accordance with Section 319(h) of the Clean Water Act (CWA) and is used to report Texas’ progress toward meeting the CWA § 319 goals and objectives and toward implementing its

strategies as defined in the Texas Nonpoint Source Management Program. The article will include a brief summary of the project and describe the activities of the past fiscal year.

Measures of Success: Adherence to the TCEQ administrative requirements; timely completion and submittal of progress reports and deliverables.

Deliverables:

- QPRs
- Reimbursement Forms
- Minutes of Quarterly Contract Conference Calls
- Contractor Evaluation
- Project Fact Sheet
- Annual Report Article

OBJECTIVE 2: RETROFIT OF DETENTION FACILITIES

Goal: City Pilot program to determine the effectiveness of detention facility retrofitting in decreasing potential contributors of *E. coli* and nutrient load from Plum Creek and Steeplechase subdivisions consistent with management measures defined in the PCWPP.

Task 2.1 **Engineering design and modeling** - retrofit **existing** detention facilities for improved load reduction. Examples of strategies include filtration basins and/or transitioning to wet pond depending on existing structures. Design phase to take six months.

Task 2.2 **Sub-Contractor Selection** – Sub-contractors for construction activities will be selected by using the City of Kyle procurement processes. Construction sub-contractor activities will be bid to include:

- Clearing
- Earth moving
- Channeling
- Installation of flow conduits and flow measuring devices
- Planting
- Leveling

Task 2.3 **Construction Activities** – The construction phase of this project will be closely monitored by the City of Kyle Project Manager and City staff to ensure that the product meets the specifications set forth in the engineering plans. Retrofitting will consist of transitioning detention facilities designed only with flood control in mind to include water quality management practices. Construction phase to take 18 months.

Task 2.4 **Construction Meetings** - Weekly meetings with City of Kyle and Construction Contractors will focus on safety and minimizing the temporary negative environmental impacts from construction activities. Equipment used in construction will be of as small a scale as possible to accomplish each given task in a timely manner.

Task 2.5 **Retrofit of Detention Facilities Report** – The GRANTEE will submit a report after the completion of the retrofitting of the detention facilities is completed. The report will provide details on why the management measures were implemented at these sites and how the projects are improving water quality, including the estimated load reductions

associated with the management measures,

Measure of Success: Completion of retrofitting activities.

Deliverables:

- Grantee will schedule and hold draft and final design plan and model meeting(s) with the TCEQ prior to initiation of construction activities
- Grantee will provide TCEQ copies of the draft and final certified engineering design plans for the detention facilities prior to initiation of construction activities.
- Copy of executed subcontract, if required.
- Update of construction progress and construction meetings including pictures with QPRs
- Draft and Final Retrofit of Detention Facilities Report that includes the calculation of pollutant loads removed

OBJECTIVE 3: STORM SEWER MARKING AND EDUCATION PROGRAM

Goal: To raise awareness of the storm sewer system, the implications of improper disposal of waste in this system, and to decrease yard waste deposited into the streets and ultimately into the Plum Creek through the storm sewer system.

Task 3.1 A storm sewer education program will be developed and disseminated through various outlets – including the City of Kyle webpage, City of Kyle newsletter, and area Homeowner Associations – with the intent of educating homeowners and the public on how improper disposal of materials, including lawn debris, can negatively affect water quality. Supportive ordinances may be developed.

Task 3.2 A Storm Sewer marking program will be adopted and implemented that will mark existing storm sewer inlets with advisory tiles in order to remind the public that the inlets lead directly to the river.

Task 3.3 Storm Sewer Marking Campaign Report – The GRANTEE will submit a report after the completion of the storm sewer marking and education program summarizing activities conducted.

Measures of Success: Production of at least 4 educational pieces a year for three years, stenciling of every existing storm sewer inlet by FY 10-11.

Deliverables:

- The following items will be submitted to the TCEQ Project Manager for approval prior to publishing/purchasing. Copies of the final materials will be included in the QPRS and the Final Report.
 - Press releases, press conference agendas
 - Education and outreach materials
 - Signs and storm drain marking implementation documentation, including maps and photographs
- Status updates on the installation of storm sewer stamps
- Draft and Final Storm Sewer Marking Campaign Report

OBJECTIVE 4: CREATION OF STORM WATER SYSTEM MAP AND MANAGEMENT PLAN

Goal: To actively map and manage the City of Kyle and surrounding area storm water system, including location of inlets, flow paths, and differentiating between open ditches and enclosed drainage allowing better decision making in planning efforts and response to NPS pollution issues or emergencies.

- Task 4.1** Purchase and implementation of GIS mapping software and GPS equipment in order to accurately map location of storm sewer assets.
- Task 4.2** Hiring of new position – GIS Technician – to gather appropriate data and input data into management system.
- Task 4.3** Use equipment to locate storm water outfalls and create a map with GIS tools.
- Task 4.4** Utilize map information to develop a storm water/drainage management plan.
- Task 4.5** Quality Assurance – The project staff coordinator/lead will review the maps developed, data tables and information compiled to provide a level of confidence that the data compilation is accurate.
- Task 4.6** Storm Water/Drainage Management Plan – The draft and final storm water/drainage management plan will be submitted to the TCEQ Project Manager

Measures of Success: Creation of a storm water/drainage management plan based on a useful digital management system mapping the entire storm sewer assets of the City of Kyle that can be used for NPS management decisions, or emergency response.

Deliverables:

- Report on new GIS Technician hired – 6 months after contract execution
- Report on the purchase of GIS mapping software and GPS equipment
- Report on the completion of GPS location identification of all storm water outfalls in the City of Kyle
- Maps will be submitted to the TCEQ Project Manager for approval prior to initiation of storm water/drainage management plan
- Draft and Final storm water/drainage management plan

OBJECTIVE 5: DOG WASTE COLLECTION STATION MANAGEMENT AND EDUCATION

Goal: To decrease potential contributors of *E. coli* and nutrient loads in and around Plum Creek as it passes through Gregg Clarke Park, Steeplechase Park, and the park trail system.

- Task 5.1** Develop a dog waste education program including signage, mailers, water bill inserts, Home Owner Association presentations targeting pet owners in order to decrease the amount of pet waste contributing to the Plum Creek Watershed.
- Task 5.2** Purchase, install, and maintain various dog waste stations along popular walking paths that are immediately adjacent to the Plum Creek or a direct drainage area.
- Task 5.3** Dog Waste Management Program Report – The GRANTEE will submit a report after the completion of the dog waste management program has been implemented summarizing activities conducted. The report will include the calculation of load reductions.

Measures of Success: Installation and usage of the dog waste stations. The amount of pollutant loads removed from the watershed will be calculated based on a quantifiable methodology, including associated bacteria and nutrient pollutant loadings prevented, based on scientific literature values.

Deliverables:

- The following items will be submitted to the TCEQ Project Manager for approval prior to publishing/purchasing. Copies of the final materials will be included in the QPRS and the Final Report..
 - Press releases, press conference agendas
 - Education and outreach materials
 - Signs and dog waste implementation documentation, including maps and photographs
- Draft and Final Report on the installation of dog waste stations that includes the calculation of pollutant loads removed

OBJECTIVE 6: CITY HOUSEKEEPING ACTIVITIES

Goal: To prevent nonpoint source runoff from city streets and to remove debris from the Plum Creek drainage area.

- Task 6.1** Coordinate regularly scheduled street cleaning and sweeping program that would result in each street in the city limits being cleaned at least twice a year, with targeted streets to be cleaned as often as monthly. Cleaning includes debris removal and automobile deposit removal.
- Task 6.2** Twice per year volunteers and city personnel will conduct a trash cleanup day on the Plum Creek. Event fosters community awareness about Plum Creek.
- Task 6.3** Change city ordinance to require mulch tubes for silt fencing in high runoff, or sensitive areas as determined by city engineer. Use of mulch tube silt fencing for Bunton Creek sewer project located along the Plum Creek.
- Task 6.4** City Housekeeping Activities Report – The GRANTEE will submit a report summarizing the housekeeping activities conducted as a part of this project.

Measures of Success: Streets swept according to schedule. Semi-Annual clean up event conducted. Mulch tubes installed.

Deliverables:

- The following items will be submitted to the TCEQ Project Manager for approval prior to publishing/purchasing. Copies of the final materials will be included in the QPRS and the Final Report..
 - Press releases, press conference agendas
 - Ordinances
 - Education and outreach materials
 - Housekeeping activities documentation, including maps and photographs
- Two trash cleanup days per year
- City ordinance updated and approved by the City Council

- Street sweeping implementation completed annually
- Installation of mulch tubing for Bunton Creek sewer project
- Draft and Final City Housekeeping Activities Report that includes the calculation of pollutant loads removed

OBJECTIVE 7: WATER QUALITY MONITORING, DATA COLLECTION AND VALIDATION

Goal: To provide monitoring data measuring reductions of E.coli and nutrient loading in Plum Creek to measure effectiveness of BMPs under this project.

- Task 7.1** **Data Quality Objectives (DQOs)-** The GRANTEE will develop DQOs which will clarify the purpose of the monitoring and/or modeling study, define the most appropriate type of data to collect, and help determine the most appropriate methods and conditions under which to collect them. The preliminary data quality objective of the monitoring for this project is to document water quality improvements based on PCWPP implementation activities conducted by the City of Kyle. The monitoring component of this project will be used to determine current water quality conditions of the creek in segment 1810 prior to implementation and improvements observed after BMPs are implemented.
- Task 7.2** **Conduct a Data Review-** The GRANTEE will conduct a data review to identify data gaps, and to determine the types of data needed to achieve the data quality objectives.
- Task 7.3** **Develop a Water Quality Monitoring Plan –** The GRANTEE will summarize the specific objectives of the project's monitoring effort, the data requirements of data analysis techniques and interpretation to be used in the project, and the preliminary locations, times, and other details of planned monitoring activities. Demonstrate how the planned activities support the data quality objectives. An approximately two year monitoring plan is being developed to enhance baseline data and provide comparative pre- and post-implementation data at sites that have had previous detections of bacteria. Quality assured monitoring data will be provided by a subcontractor.
- Task 7.4** **QAPP Planning Meetings –** The GRANTEE will schedule Quality Assurance Project Plan (QAPP) planning meetings with the TCEQ Project Manager, Quality Assurance staff, technical staff, management, and contractors, to implement a systematic planning process, based on the elements of the TCEQ NPS QAPP Shell. The information developed during the planning meetings will be incorporated into a QAPP. Additional planning meetings may also be conducted to determine if any changes need to be made to an existing QAPP.
- Task 7.5** **QAPP for Monitoring –** The GRANTEE will develop and submit to the TCEQ a QAPP with project specific data quality objectives consistent with the *EPA Requirements for Quality Assurance Project Plans (QA/R5)* format and the TCEQ NPS QAPP Shell 120 days prior to the initiation of any data collection. All of the monitoring procedures and methods prescribed in the QAPP will be consistent with the guidelines detailed in the TCEQ Surface Water Quality Monitoring Procedures, Volume 1 and 2. The QAPP will be developed by the GRANTEE with technical assistance from TCEQ Project Manager, Quality Assurance staff, technical staff, management, and contractors. The QAPP will be approved by the TCEQ
- Task 7.6** **QAPP Update –** Annually throughout the project period, the GRANTEE will provide input to TCEQ 60 days prior to the end of the effective period of the QAPP, and will develop

annual QAPP revisions no less than 45 days prior to the end of the effective period of the QAPP.

- Task 7.7 QAPP Amendments** - Amendments to the QAPP and the reasons for the changes will be documented, and revised pages will be forwarded to all persons on the QAPP distribution list by the Contractor QAO. Amendments shall be reviewed, approved, and incorporated into a revised QAPP during the annual revision process or within 120 days of the initial approval in cases of significant changes
- Task 7.8 Data Collection-Monitor Water Quality and Education/Outreach Effectiveness** – Conduct monitoring, as outlined in the QAPP, and education/outreach activities to achieve data quality objectives.
- Task 7.9 Data Submittal**- Data will be reviewed, verified and validated by the City of Kyle before submitted to TCEQ. Data will be submitted as defined in the QAPP and at least 1 month prior to presenting to stakeholders. Water quality data submittal will be consistent with TCEQ formatting requirements will be submitted for upload into the Surface Water Quality Monitoring Information System (SWQMIS).
- Task 7.10 Implement an Education and Outreach Effectiveness Monitoring Plan** – A pre and post implementation educational survey will be conducted to determine the effectiveness of the stenciling, dog waste and yard debris education/outreach programs. The survey will be conducted by the City of Kyle and associated costs are not reflected in this proposal.
- Task 7.11 Water Quality Monitoring Report** – The GRANTEE will submit a report analyzing water quality data collected under this project. The data will be analyzed to determine if reductions of E.coli and nutrient loadings are detected in order to measure effectiveness of BMPs implemented under this project.

Measures of Success: Acceptance of the original QAPP and annual updates by the TCEQ and continuing conformance to QAPP provisions. Pre and post survey data indicate a positive relation between educational programs and behavior modification.

Deliverables:

- Draft and Final Sampling Plan, including DQOs and data review
- QAPP Planning Meeting
- Draft and Final QAPP
- Draft and Final QAPP Annual Updates
- Draft and Final QAPP Amendments
- Data Submittals
- Water quality monitoring non-conformances will be reported within 72 hours and in QPRs.
- Submit draft educational survey to the TCEQ Project Manager prior to implementation
- Submit results of surveys to the TCEQ Project Manager
- Draft and Final Water Quality Monitoring Report

OBJECTIVE 8: FINAL REPORT

Goal: To provide TCEQ and EPA with a comprehensive Final Report on the activities conducted by the Grantee during the course of the project.

Task 8.1 Final Report - Provide comprehensive, technical Final Report on the activities conducted by the Grantee to the TCEQ and EPA. The Final Report will provide analysis of all activities and deliverables within the grant. Draft reports will be provided to the TCEQ. The final version of the report will address comments provided by the TCEQ Project Manager. The Final Report will include but is not limited to the following information:

- Title
- Table of Contents
- Executive Summary
- Introduction
- Project Significance and Background
- Implementation Measures (Compilation of reports submitted for Objectives 2-7)
 - Methods
 - Results and Observations
 - Discussion
- Summary
- References
- Appendices

Measure of Success: Acceptance of the Final Report by the TCEQ.

Deliverables:

- Draft Final Report
- Final Report

PROJECT LEAD

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Deliverables Due Dates

Schedule of Deliverables Based on Project Funding/Initiation of April 2008.

Task No.	Deliverable	Due Date
	Post Award Meeting	To be determined
1.1	Project oversight status	Quarterly
1.2	Quarter Three Progress Report FY 09	6/15/09

1.2	Quarter Four Progress Report FY 09	9/15/09
1.2	Quarter One Progress Report FY 10	12/15/09
1.2	Quarter Two Progress Report FY 10	3/15/10
1.2	Quarter Three Progress Report FY 10	6/15/10
1.2	Quarter Four Progress Report FY 10	9/15/10
1.2	Quarter One Progress Report FY 11	12/15/10
1.2	Quarter Two Progress Report FY 11	3/15/11
1.2	Quarter Three Progress Report FY 11	6/15/11
1.2	Quarter Four Progress Report FY 11	8/31/11
1.3	Quarter Three Reimbursement Request Forms FY 09	6/30/09
1.3	Quarter Four Reimbursement Request Forms FY 09	9/30/09
1.3	Quarter One Reimbursement Request Forms FY 10	12/31/09
1.3	Quarter Two Reimbursement Request Forms FY 10	3/31/10
1.3	Quarter Three Reimbursement Request Forms FY 10	6/30/10
1.3	Quarter Four Reimbursement Request Forms FY 10	9/30/10
1.3	Quarter One Reimbursement Request Forms FY 11	12/31/10
1.3	Quarter Two Reimbursement Request Forms FY 11	3/31/11
1.3	Quarter Three Reimbursement Request Forms FY 11	6/30/11
1.3	Quarter Four Reimbursement Request Forms FY 11	8/31/11

1.4	Quarterly conference call or meeting with the TCEQ Project Manager	7/31/09
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	10/31/09
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	1/31/10
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	4/30/10
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	7/31/10
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	10/31/10
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	1/31/11
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	4/30/11
1.4	Quarterly conference call or meeting with the TCEQ Project Manager	7/31/11
1.4	Minutes of the quarterly conference call or meeting with the TCEQ Project Manager submitted	with QPRs
1.5	Contractor Self-Evaluation	8/31/09
1.5	Contractor Self-Evaluation	8/31/10
1.5	Contractor Self-Evaluation	8/31/11
1.6	Project Fact Sheet	60 days after contract initiation
1.6	Project Fact Sheet Update	9/15/09
1.6	Project Fact Sheet Update	9/15/10
1.6	Project Fact Sheet Update	8/31/11

1.7	Project Annual Report Article (when requested)	9/15/09
1.7	Project Annual Report Article (when requested)	9/15/10
1.7	Project Annual Report Article (when requested)	8/31/11
2.1	Preliminary detention facility retrofit plans submitted to the TCEQ	within 60 days of contract execution
2.1	Meeting held to discuss the preliminary detention facility retrofit plans	within 15 days of submittal of preliminary retrofit plans
2.2	Copy of executed subcontract	within 60 days of subcontract execution
2.1	Provide draft engineering design plans and models of the detention facilities to TCEQ.	within 60 days of submittal of preliminary retrofit plans
2.1	Meeting held to discuss the draft engineering design plans and models prior to beginning construction activities	within 30 days of submittal of preliminary retrofit plans
2.1	Provide TCEQ copies of the final certified engineering design plans for the detention facilities.	30 days prior to initiation of construction activities
2.3, 2.4	Updates of the construction progress and construction meetings including pictures	with QPRs
2.4	Draft Retrofit of Detention Facilities Report that includes the calculation of pollutant loads removed	2/28/11
2.4	Final Retrofit of Detention Facilities Report that includes the calculation of pollutant loads removed	3/31/11
3, 5	Submit the following items: press releases, press conference agendas, education and outreach materials, signs and storm drain stencils and location maps & photographs, signs and dog waste implementation documentation, including maps and photographs, housekeeping activities documentation, including maps and photographs	15 days prior to publishing/purchasing, final copy submitted with QPRs
3.2	Status updates on the installation of storm sewer stamps	with QPRs
3.3	Draft Storm Sewer Marking Campaign Report	2/28/11
3.3	Final Storm Sewer Marking Campaign Report	3/31/11
4.1	Report on the purchase of GIS mapping software and GPS equipment	with next QPR
4.2	Report on new GIS Technician hired	in next QPR 6 months after execution of contract

4.3	Report on the completion of GPS location identification of all storm water outfalls in the City of Kyle	with QPRs
4.3	Maps will be submitted to the TCEQ Project Manager for approval	9/15/10 (prior to initiation of storm water/drainage management plan)
4.4	Draft storm water/drainage management plan	4/15/10
4.4	Final storm water/drainage management plan	7/15/10
5.2	Report on the installation of dog waste stations	with QPRs
5.3	Draft Report on the installation of dog waste stations that includes the calculation of pollutant loads removed	2/28/11
5.3	Final Report on the installation of dog waste stations that includes the calculation of pollutant loads removed	3/31/11
6.2	Two trash cleanup days per year	8/31/09
6.2	Two trash cleanup days per year	8/31/10
6.2	Two trash cleanup days per year	8/31/11
6.3	City ordinance updated and approved by the City Council	8/31/11
6.3	Installation of mulch tubing	8/31/11
6.4	Draft City Housekeeping Activities Report that includes the calculation of pollutant loads removed	2/28/11
6.4	Final City Housekeeping Activities Report that includes the calculation of pollutant loads removed	3/31/11
7.1-7.3	Sampling Plan draft, including DQOs and data review	within 30 days of contract execution
7.4	QAPP Planning Meeting	within 45 days of contract execution
7.5, 7.1-7.3	QAPP Draft, including final Sampling Plan	30 days after QAPP Planning Meeting
7.5	QAPP Final	30 days after receiving TCEQ comments on Draft QAPP
7.6	QAPP Update - provide input to TCEQ	60 days prior to end of QAPP effective period, 2010

7.6	QAPP Update - submit final update	30 days prior to end of QAPP effective period, 2010
7.6	QAPP Update - provide input to TCEQ	60 days prior to end of QAPP effective period, 2011
7.6	QAPP Update - submit final update	30 days prior to end of QAPP effective period, 2011
7.7	Draft QAPP Amendments	75 days prior to change in sampling plan implemented
7.7	Final QAPP Amendments	45 days prior to change in sampling plan implemented
7.8	Data Submittal data consistent with TCEQ formatting requirements will be submitted for upload into the SWQMIS	biannually and at least 1 month prior to presenting to stakeholders
7.8	Reporting of water quality monitoring non-conformances	within 72 hours and in quarterly progress reports.
7.9	Submit draft educational survey	45 days prior to implementation
7.10	Submit results of surveys	with QPRs & Final Report
7.11	Draft Water Quality Monitoring Report	4/30/11
7.11	Final Water Quality Monitoring Report	5/31/09
8.1	Draft Final Report	6/30/11
8.1	Final Report	7/31/11