

**STORM WATER MANAGEMENT PROGRAM PLAN**

**January 2022**

*Prepared For*

City of Tarrant

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Tarrant, Alabama 35217

*Prepared by*

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**Signatory and Certification Requirements:**

I certify under the 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 gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information the information 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.

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| Wayman Newton | Date |
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# Introduction

## Regulatory Overview

The City of Tarrant (City) was issued by the Alabama Department of Environmental Management (ADEM) a Municipal Separate Storm Sewer System (MS4) Individual Phase I Permit (ALS000020) on June 7, 2017 (**Appendix A**). This permit went into effect on July 1, 2017. Previously, the City was included as a Co-Permittee under permit number ALS000001.

As a condition of this permit, “The permittee is required to develop, revise, implement, maintain and enforce a storm water management program (SWMP) which shall include controls necessary to reduce the discharge of pollutants from its MS4 consistent with Section 402(p)(3)(B) of the Clean Water Act and 40 CFR Part 122.26. These requirements shall be met by the development and implementation of a storm water management program plan (SWMPP) which addresses the best management practices (BMPs), control techniques and systems, design and engineering methods, public participation and education, monitoring, and other appropriate provisions designed to reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP)”.

Per the requirements of NPDES Permit Number ALS000020, BMPs, measurable goals, and responsibility designations are provided for each of the following program elements:

* Storm Water Collection System Operations
* Public Education and Public Involvement on Storm Water Impacts
* Illicit Discharge Detection and Elimination
* Construction Site Storm Water Runoff Control
* Post-Construction Storm Water Management in New Development and Re- Development
  + Spill Prevention and Response
  + Pollution Prevention/Good Housekeeping for Municipal Operations
  + Application of Pesticides, Herbicides, and Fertilizers
  + Oils, Toxics, and Household Hazardous Waste Control
  + Industrial Storm Water Runoff

ADEM defines the fiscal year as October 1st to September 30th. Annual reports are required to be submitted to ADEM no later than January 31st following the previous fiscal year.

## MS4 Jurisdictional Boundary

Tarrant’s MS4 boundary is bound to the north by the City of Birmingham, to the south by the City of Birmingham and to the east and west by the Cities of Birmingham and Fultondale respectively. Approximately 6.4 square miles of residential, commercial, industrial, undeveloped lands, and streams make up the MS4 boundary. See **Figure 1: MS4 Boundary**.

# Legal Authority and Enforcement

Part II C of the permit requires the City to review and revise its ordinances and regulatory mechanisms as necessary to comply with the permit. Below is a summary of the current ordinances, municipal codes, and regulations related to the management of Tarrant’s MS4. These ordinances are found in **Appendix A**.

**Ordinance 1107, 7-17-2018, Erosion and Sedimentation Control Ordinance:** Controls sedimentation leaving construction sites. The ordinance describes the fees, regulations, and the requirements surrounding a land disturbing permit issuance.

**Ordinance 1108, 7-17-2018, Illicit Discharge Ordinance:** Controls the introduction of pollutants into the municipal separate storm sewer system (MS4).

**Ordinance 1109, 7-17-2018, Post-Construction Ordinance:** To address and enforce post-construction storm water management standards on qualifying sites to prevent and minimize water quality impacts.

**Ordinance 887, Art. 4, 7-7-1998:** Approved by the Planning and Zoning Board and carry the force of a City Ordinance. All subdivision proposals shall be consistent with the need to minimize flood damage.

**Ordinance 927, Article IX, 8-20-2001, Landscape Regulations:** Encourages the planting of trees and shrubs to aid in the prevention of erosion and sedimentation, reduce storm water runoff, help control drainage, and restore denuded soil subsequent to construction and grading.

**Ordinance 887, Art. 1, 7-7-1998, Flood Ordinance**: It is the purpose of this article to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed around the floodplain as well as controlling the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters.

**Ordinance 587, 5-19-1975, Litter Ordinance**: No person shall throw or deposit litter in or upon any street, sidewalk or other public place within the City except in public receptacles, in authorized private receptacles for collection, or in official City sanitary landfills.

**Ordinance 503, 1-17-1966, Nuisance Ordinance:** No person shall leave any partially dismantled, non-operating, wrecked, or junked vehicles on any street or highway within the City.

In 2011 the City of Tarrant also adopted a Standard Operating Procedure (SOP) Manual detailing guidelines for addressing many activities associated with the program elements. The SOP Manual is found in **Appendix A**.

The following table reflects which department is responsible for implementing or coordinating BMPs for each separate program element:

|  |  |
| --- | --- |
| **DEPARTMENT** | **RESPONSIBILITIES** |
| **Storm Water Collection Systems Operations** | |
| Inspections/JCDH | Maintain map of City owned/maintained structural controls |
| Inspections | Semi-annual inspection of new and existing structural controls |
| Inspections | Develop SOP, inspection checklist, and maintenance procedures |
| Public Works | Stabilize and re-vegetate eroded areas as needed |
| Public Works | Remove floatable, litter, sediment, and debris from structural controls |
| **Public Education and Public Involvement on Storm Water Impacts** | |
| Administration | Seek and consider public input in the development and implementation of the SWMPP |
| Administration | Public access to city storm water documents |
| Administration/Public Works | Post signs prohibiting littering and illegal dumping |
| Administration | Educating individuals and households on reducing storm water pollution |
| Administration | Community involvement in the storm water program and targeting pollutant sources |
| Administration | Evaluate the effectiveness of the public education program |
| Administration | Organize annual cleanup |
| **Illicit Discharge Detection and Elimination (IDDE)** | |
| JCDH | Develop MS4 map of outfalls |
| Administration | Develop applicable ordinances and other regulatory mechanisms |
| JCDH | Screen 20% of the stream miles during dry weather conditions |
| City Personnel/JCDH | Illicit discharge source identification |
| Code Enforcement Officer or JCDH | Elimination of illicit discharges |
| Inspections | Procedures to notify ADEM of a suspected illicit discharge entering the MS4 from an adjacent MS4 |
| Administration | Illicit discharge public reporting system |
| Administration | Educating employees on detecting an IDDE , tracing the source of and eliminating illicit discharge |
| Administration | Ordinance/Regulatory mechanism availability |
| **Construction Site Storm Water Runoff Control** | |
| Inspections | Erosion and sedimentation control complaints |
| Inspections/Engineering | Site plan reviews |
| Inspections | Site inspection plan |
| Inspections | Inspection staff training |
| Inspections | Construction site inspection checklist |
| Administration | Enforcement Response Plan (ERP) |
| Administration/Inspections | Construction site operator education |

|  |  |
| --- | --- |
| **DEPARTMENT** | **RESPONSIBILITIES** |
| **Post-Construction Storm Water Management in New Development and Re-Development** | |
| Administration | Develop applicable ordinances and other regulatory mechanisms |
| Inspections | Inventory of post-construction structural controls |
| **Spill Prevention and Response** | |
| Fire and Rescue | City response protocol |
| Fire and Rescue | Spill prevention/spill response plan |
| Fire and Rescue/Administration | Educating employees on spill prevention/spill response |
| **Pollution Prevention/Good Housekeeping for Municipal Operations** | |
| All Departments | Inventory of municipal facilities |
| All Departments | Good housekeeping practices SOP |
| All Departments | Inspection plan |
| Administration | Educating employees on good housekeeping |
| Administration | Short and long term trash removal strategy |
| **Application of Pesticides, Herbicides, and Fertilizers(PHFs)** | |
| Parks and Recreation | Application and storage of PHFs |
| Administration | Educating employees on PHFs usage and storage |
| **Oils, Toxics, and Household Hazardous Waste Control** | |
| Administration | Public education on proper disposal |
| Administration | Educating employees on oils, toxics, and household hazardous waste |
| **Industrial Storm Water Runoff** | |
| Administration/JCDH | Inventory of high risk facilities |
| JCDH | Inspection of high risk facilities |
| **Wet Weather Monitoring and Reporting** | |
| JCDH | Monitoring locations |
| JCDH | Impaired waterways review |
| JCDH | Monitoring parameters and frequency |
| JCDH | Sampling type, collection and analysis |
| **Other Requirements** | |
| All Departments | SWMPP plan review and modification |
| JCDH | Annual Report submittal |

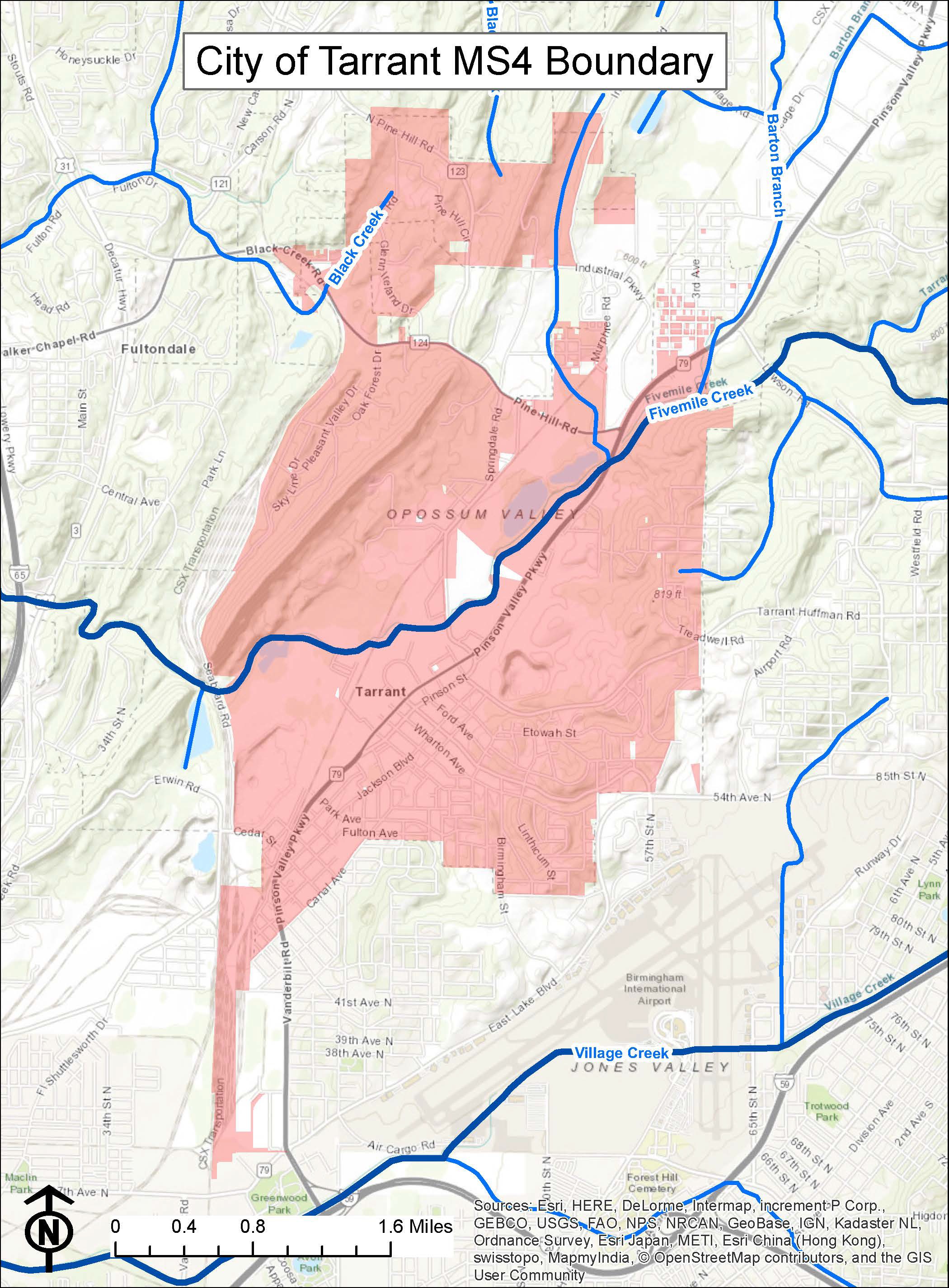


Figure 1: MS4 Boundary

# Storm Water Collection Systems Operations

## Structural Controls Mapping

The City currently has no owned/maintained structural controls within the MS4 boundary limits. The City will monitor the addition of any City owned/ maintained structural controls.

**Responsible Departments: Inspections/JCDH**

## Structural Controls Inspection

As stated in the permit, all existing and new structural controls owned/maintained by the Permittee shall be inspected on a semi-annual basis, at a minimum, using a standard inspection form found in **Appendix B**. A city inspector and/or a contractor will perform inspections. Any deficiencies or maintenance recommendations listed on the inspection form in regards to the structural control will be addressed by Public Works.

**Responsible Department: Inspections**

## Standard Operational Procedure (SOP) for Structural Control Inspection and Maintenance Procedures

The standard inspection form found in **Appendix B** is used to document structural control inspections. Once any maintenance is completed, a city inspector and/or a contractor will re- inspect the Structural Control to ensure the structure can effectively function as designed.

**Responsible Department: Inspections**

## Stabilization and Re-vegetation of Eroded Areas

During the inspection of the structural controls, areas of erosion will be documented. The Public Works Department will receive a copy of the inspection documentation noting the eroded areas and will stabilize and re-vegetate these areas.

**Responsible Department: Public Works**

## Floatables, Litter, Sediment and Debris in Structural Controls

All floatables, litter, sediment, and/or debris found during the structural inspection will be documented. The Public Works Department will receive a copy of the inspection documentation and will remove the noted items. Public Works will maintain documentation of the estimated amounts of floatables, litter, sediment and debris removed during maintenance activities using the Storm Water Online Activity Record (SOAR) program.

**Responsible Department: Public Works**

# Public Education and Public Involvement on Storm Water Impacts

## Development and Implementation of the SWMPP

The City will seek public input on the SWMPP by posting the draft SWMPP on its website for comments. Notification announcements will be made at council meetings. The Council- approved SWMPP for the upcoming year will then be posted on the website and be submitted yearly with the Annual Report on January 31.

**Responsible Department: Administration**

## Public Access to City Storm water Documents

The City has posted copies of the current Annual Report, current SWMPP and the NPDES permit on the City’s website. These documents will routinely be updated on the website whenever new ones are approved by the city council and/or submitted to ADEM.

**Responsible Department: Administration**

## Targeted Pollutant Sources for Public Education

The City discusses targeted pollutant sources in the section of the SWMPP titled “Community Involvement with the Storm Water Program”.

## Reduction of Litter Floatables and Debris

The City currently maintains litter signage within the City of Tarrant. Signage will be updated as necessary to properly address these issues.  Administration approves of the messages and Public Works installs the signs and/or labels.

**Responsible Departments: Administration/Public Works**

## Educating Individuals and Households on Reducing Storm Water Pollution

The City has posted on its website, information describing its Storm Water Program. The information includes general information about the storm water permit with links and brochures about different ways to reduce storm water pollution in relation to the different community segments. These same brochures on storm water issues are placed at City Hall for public pickup. These materials will be updated as needed.

**Responsible Department: Administration**

## Community Involvement with the Storm Water Program

### General Public

The City has a storm water page on its website and place in City facilities brochures containing information that informs the general public of:

* General impacts litter has on water bodies and ways to reduce the litter
* General impacts of storm water on surface water from impervious surfaces
* Source control BMPs in areas of pet waste, home vehicle maintenance, landscaping and rain water reuse.
* Impacts of illicit discharges and how to report them.

These materials will be updated as needed.

**Responsible Department: Administration**

### Businesses

The City has a storm water page on its website and placed in City facilities brochures containing educational information on the following business-related topics:

* Information on BMPs for use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials.
* Impacts of illicit discharges and how to report them.

These materials will be updated as needed.

**Responsible Department: Administration**

### Homeowners, Landscapers, and Property Managers

The City has a storm water page on its website and placed brochures containing educational information in City facilities that inform homeowners, landscapers, and property managers on the following topics:

* BMPs and storage of pesticides, herbicides, and fertilizers.
* Detention/retention pond maintenance.
* General impacts of storm water from impervious surfaces into surface water.

These materials will be updated as needed.

**Responsible Department: Administration**

### Engineers, Contractors, and Developers

The City has a storm water page on its website and placed brochures containing educational information in City facilities that inform engineers, contractors and developers on the following topics:

* + Impacts of increased storm water flows into receiving water bodies.
  + Run-off reduction techniques and low impact development (LID)/green infrastructure practices. Specifically addressing site design, pervious pavement, alternative parking lot design, retention of forests and mature trees.

These materials will be updated as needed.

**Responsible Department: Administration**

## Evaluating the Effectiveness of the Public Education Program

The City will evaluate the effectiveness of the public education program by monitoring and reporting the number of visitors to the storm water page and the number of brochures that are picked up from the City facilities on an annual basis.

**Responsible Department: Administration**

## Public Awareness Activities

Currently the City is planning to host or participate in a cleanup annually. The tonnage collected by the City will be included in the Annual Report.

**Responsible Department: Administration**

# Illicit Discharge Detection and Elimination (IDDE)

## MS4 Map

Maps of the major outfalls and waters of the State within the MS4 boundary that receive discharge from the major outfalls can be found in **Appendix C**. Also, a list of the major outfalls’ latitude and longitude coordinates can be found in **Appendix C**.

JCDH will update the MS4 map and provide a list of location coordinates annually on behalf of the City.

**Responsible Department: JCDH**

## Ordinance/Regulatory Mechanism

Ordinance No. 1108 addresses illicit discharges as required by the City’s Permit.

**Responsible Department: Administration**

## Dry Weather Screening

Dry weather screening of 20% of the stream miles will be performed annually with 100 percent of the major outfalls screened at least once per the five year permit period. This work will be completed by JCDH. Currently there are no priority outfalls identified within the MS4 boundary, but if illicit discharges are identified during the dry weather inspections, those outfalls will be screened on an annual basis. JCDH shall use the EPA’s guidance manual, *Illicit Discharge Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments*, Center for Watershed Protection, October, 2004, for the main source of investigative techniques and guidance for the dry weather screening process. Outfalls will be field inspected after a minimum of 72 hours of dry weather. Data sheets found in **Appendix C** will be filled out for each outfall inspected. The protocols for dry weather screening are in the Standard Operating Procedure Manual found in Appendix A**.**

**Responsible Department: JCDH**

## Source Identification

If during the dry weather screenings, Public Works’ identification, or citizen complaint, an outfall is found to be discharging a liquid, the city inspector or JCDH personnel will traverse upstream of the discharge in an attempt to identify the source of the discharge. If the discharge source is unidentifiable, then a sample of the discharge shall be collected by JCDH and analyzed by a qualified lab. Based on the lab results, the outfall will be prioritized and scheduled for further investigation if needed.

**Responsible Departments: City Personnel/JCDH**

## Illicit Discharge Elimination

Once the source and responsible party of an illicit discharge has been identified, either the City will take action through Ordinance No. 1108 or JCDH will through its regulations.

**Responsible Departments: Code Enforcement Officer or JCDH**

## ADEM Notification by the City

If a suspected illicit discharge enters the City’s MS4 boundary from an adjacent MS4, the City will notify the adjacent MS4 and the ADEM Water Division within 48 hours of observing the suspected illicit discharge. The Standard Operating Procedure for this action is found in **Appendix C**.

**Responsible Department: Inspections**

## Illicit Discharge Reporting by the Public

The City receives calls for illicit discharges at the City Hall phone number 205-849-2800 ext. 1031 for the Mayor or ext. 1035 for the Building Inspection Department.

**Responsible Department: Administration**

## Personnel Training

Non-First Responder City Personnel will be trained on IDDE identification and response annually.

**Responsible Party: Administration**

## Ordinance/Regulatory Mechanism Availability

All ordinances and regulatory mechanisms can be found on the City’s website, [www.cityoftarrant.com](http://www.cityoftarrant.com/).

**Responsible Department: Administration**

# Construction Site Storm Water Runoff Control

## Erosion and Sedimentation Control Complaints

The City frequently receives calls about construction and sedimentation runoff at the City Hall phone number (205-849-2800). These calls are directed to the Department of Building Safety and Inspections (205-849-2800 ext. 1035). The website lists the Department of Building Safety and Inspections as the contact number for construction complaints.

**Responsible Department: Inspections**

## Site Plan Reviews

According to Ordinance No. 1107 a BMP plan must be submitted to the City along with the permit application before the commencement of any land disturbance. The City must either approve or disapprove the BMP plan within 14 days. Reasons for disapproval must be submitted to the applicant in writing. All revisions have an additional 14-day response time. Land disturbing activity may not be commenced prior to the issuance of the permit by the City.

**Responsible Departments: Inspections/Engineering**

## Site Inspection Plan

The City will perform a monthly inspection, at a minimum, on qualifying sites that have been issued land disturbance permits. Erosion controls and best management practices will be inspected during these inspections. Deficiencies identified during an inspection will be subjected to enforcement procedures outlined in the Ordinance No. 1107.

**Responsible Department: Inspections**

## Training of MS4 Site Inspection Staff

Personnel responsible for construction site inspections receive BMP training annually.

**Responsible Department: Inspections**

## Construction Site Inspection Checklist

See **Appendix D** for the City’s construction site inspection checklist.

**Responsible Department: Inspections**

## Enforcement Response Plan (ERP)

An Enforcement Response Plan is included in Ordinance No. 1107.

**Responsible Department: Administration**

## Construction Site Operator Training

The City provides construction site operator’s informational materials regarding appropriate application and maintenance of erosion and sediment controls when they receive their permits from the Inspections Department. The City has a storm water page on its website that also contains educational information informing the engineers, contractors and developers on:

* + Impacts of increased storm water flows into receiving waterbodies.
  + Run-off reduction techniques and low impact development (LID)/green infrastructure practices. Specifically addressing site design, pervious pavement, alternative parking lot design, retention of forests and mature trees.

These materials will be updated as needed.

**Responsible Departments: Administration/Inspections**

# Post-Construction Storm Water Management in New Development and Re-Development

## Ordinance/Regulatory Mechanism

City Ordinance No. 1109 meets the requirements for post-construction storm water management.

The Post-Construction Ordinance addresses the following:

* Procedures to develop, implement and enforce systems of appropriate structural and/or non-structural BMPs.
* Procedures to develop, implement and enforce performance standards.
* Procedures for encouragement of the utilization of LID/green infrastructure practices.
* Procedures to ensure compliance including sanctions and enforcement mechanisms.
* Procedures for post-construction inspections to include tracking and enforcement.
* Procedures to ensure adequate long-term operation and maintenance of BMPs.

**Responsible Department: Administration**

## Inventory of Post-Construction Structural Controls

The City is developing a list of privately-owned structural controls for those built after the codification of the new requirements.  Currently the City has none. The City will update annually the list of privately-owned structural controls under the new requirements.

**Responsible Department: Inspections**

# Spill Prevention and Response

## City Response Protocol

The Tarrant Fire and Rescue is responsible for investigating, responding, and conducting response actions for any spill within the City’s boundaries. Jefferson County’s Emergency Management Agency (EMA) will additionally respond at the request of the City. Tarrant’s Fire and Rescue and EMA track the spills, the response, and the cleanup activities for all spills.

**Responsible Department: Fire and Rescue**

## Spill Prevention/Spill Response Plan

The City’s SOP for spill response is found in **Appendix E**.

**Responsible Department: Fire and Rescue**

## Personnel Spill Prevention/Response Training

Tarrant Fire and Rescue is responsible for the training and certification of their personnel. An annual training will be provided to municipal personnel on spill prevention/response.

**Responsible Department: Fire and Rescue/Administration**

# Pollution Prevention/Good Housekeeping For Municipal Operations

## Municipal Facilities Inventory

See **Table 1: Municipal Facilities** for a list of facilities. The list will be reviewed annually and updated as needed.

**Responsible Departments: All Departments**

## Good Housekeeping Practices SOP

The SOP detailing good housekeeping practices is found in the 2011 SWMA SOP Manual. (**Appendix A**)**.**

**Responsible Departments: All Departments**

## Inspection Plan

Annual inspections will be conducted for municipal facilities that have the potential to discharge pollutants vial stormwater runoff. See **Appendix F** for a list of sites to be inspected and the inspection checklist.

**Responsible Departments: All Departments**

## Good Housekeeping Training Program

City staff will be educated annually on good housekeeping practices. The 2011 SWMA SOP Manual contains procedures related to Good Housekeeping.

**Responsible Department: Administration**

## Short Term and Long Term Trash Removal Strategy

The City has a SOP for special events that promotes the reduction of trash and debris into the City’s MS4 as well as Waters of the State (**Appendix F**).

**Responsible Department: Administration**

**Table 1: Municipal Facilities**

|  |  |  |
| --- | --- | --- |
| **Name** | **Address** | **Inspection** |
| Tarrant Electric | 701 Clow Rd | **Yes. Equipment Storage** |
| Public Works | 791 Elizabeth Ave | **Yes. Equipment Storage** |
| Public Works | 2529 Commerce Way | **Yes. Vehicle/ Equipment Storage** |
| Tarrant Electric | 2538 Commerce Way | **Yes. Vehicle/ Equipment/ PHF Storage** |
| Public Works | 2533 Commerce Way | **Yes. Equipment Storage** |
| Public Works | 2515 Commerce Cir | **Yes. Vehicle/ Equipment Storage** |
| Public Works | 803 Elizabeth Ave | **Yes. Equipment Storage** |
| Public Works | 799 Elizabeth Ave | **Yes. Equipment Storage** |
| Public Safety | 2593 Commerce Cir | **Yes. Vehicle Storage** |
| Parks And Rec. | 1232 Faye Dr | **Yes. Vehicle Storage** |
| City Hall | 1133 East Lake Blvd | No. No potential to discharge pollutants. |

# Application of Pesticides, Herbicides, and Fertilizes (PHFS)

## Application and Storage

The Park and Recreation Department keeps annual records of applied pesticides, herbicides, and fertilizers (PHFs). Each chemical used is applied per the labeling instructions. Per the SOP, City staff only sprays when there is a three-day window of no rain. Safety Data Sheets (SDS) on each product are found in the chemical storage areas. City staff responsible for application of PHFs receive annual training in safe use, storage, and disposal of PHFs. All contractors contracted to apply pesticides or herbicides to City property shall provide proper certification and licensing before performing work. Also, contractors contracted to apply fertilizer must provide qualification in utilizing proper nutrient management practices. The City is also in the process of developing a program to detect proper usage (**Figure 2: PHF's Usage Sites)**.

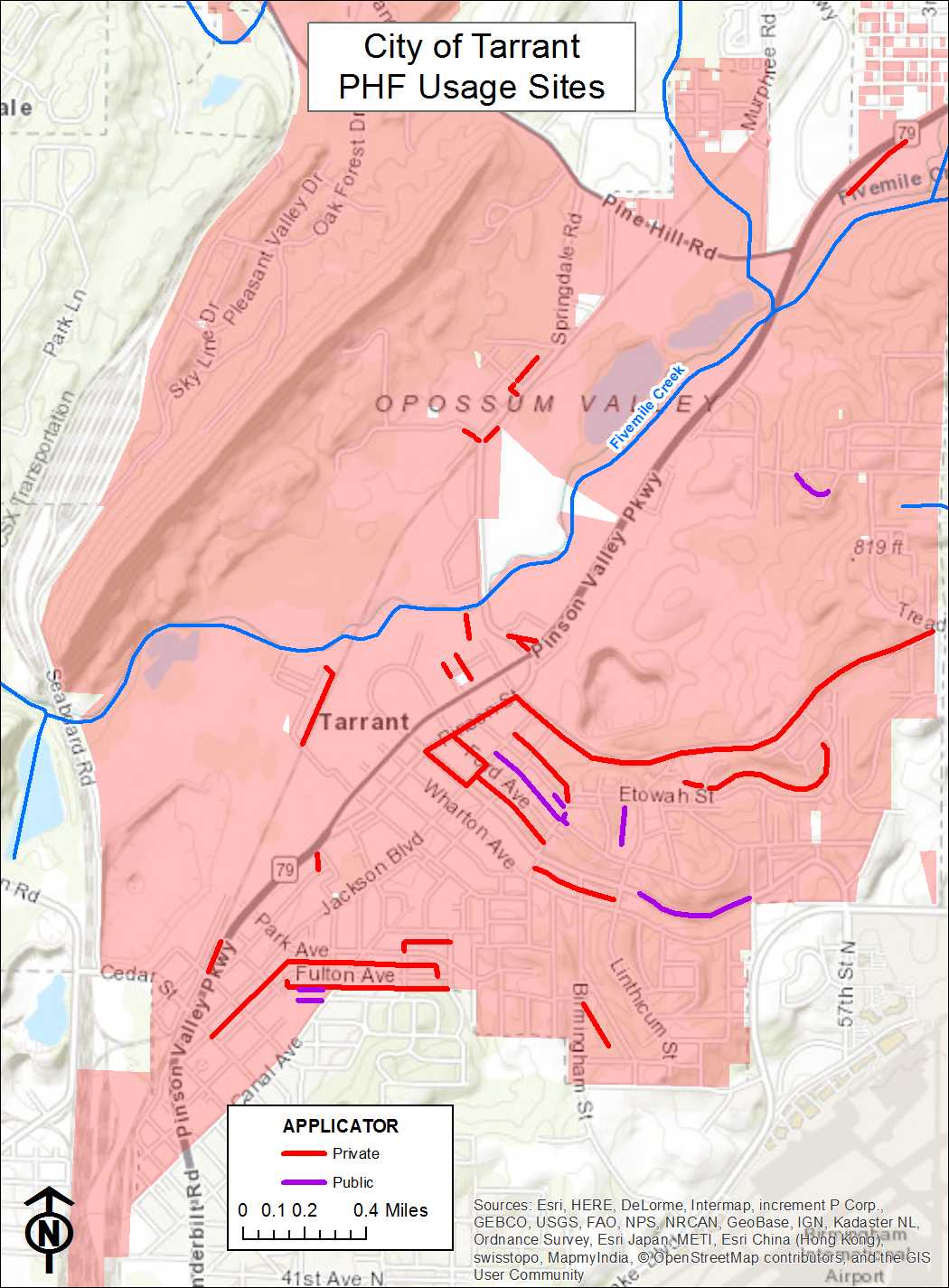
City facilities that store PHFs will be inspected annually to determine proper storage, product labeling, and SDS accessibility (**T: Municipal Properties**). The SOP manual contains procedures related to usage and storage of PHFs (**Appendix A**).

**Responsible Department: Parks and Recreation**

## PHF Training Program

City staff will be educated annually on proper PHF practices.

**Responsible Department: Administration**



**Figure 2: PHF Usage Sites**

# Oils, Toxics, and Household Hazardous Waste

## Public Education on Proper Disposal

The City has contact information on its website regarding where to report spills, illicit discharges and improper disposals. The website Earth911 <http://earth911.com/> can be used to find a location near you for recycling of oils, toxics and household hazardous waste. Brochures on oils, toxics, and household hazardous waste are on the City storm water website as well as placed in City facilities for public pick-up.

**Responsible Department: Administration**

## Annual Employee Training

Annual training on spill prevention is provided to City personnel.

**Responsible Department: Administration**

# Industrial Storm Water Runoff

## Inventory of High Risk Facilities

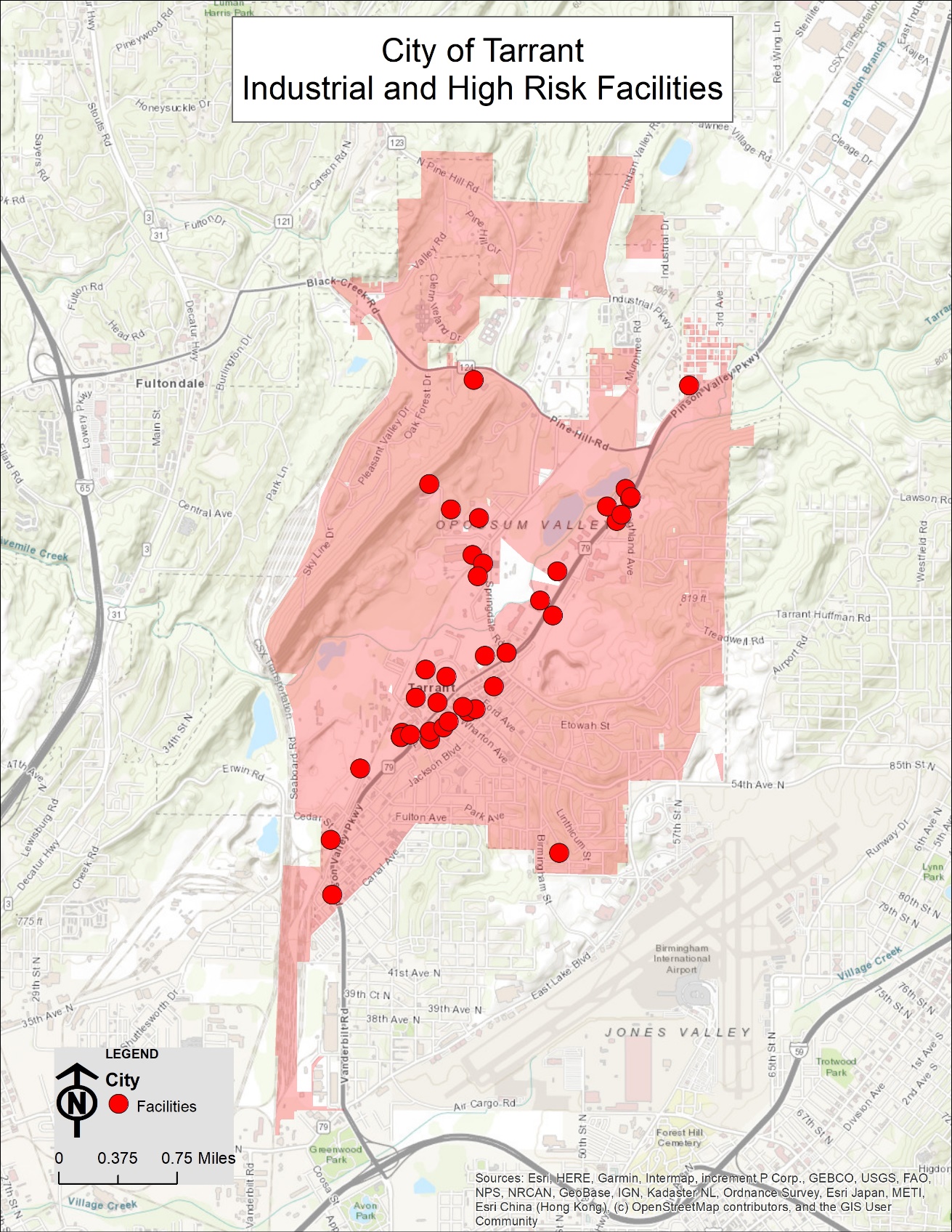
The City maintains a list of industrial and high risk facilities within the city limits (**Appendix G)**. The list of industrial facilities will be reviewed annually for accuracy and will be updated when necessary. A map of the industrial and high risk facilities can be found in **Figure 3: Industrial and High Risk Facilities.**

**Responsible Departments: Administration/JCDH**

## Inspection of High Risk Facilities

JCDH will inspect these sites annually on behalf of the City. See **Appendix G** for the Industrial Inspection form.

**Responsible Department: JCDH**



**Figure 3: Industrial and High Risk Facilities**

# Wet-Weather Monitoring and Reporting

## Monitoring Locations

JCDH will take wet-weather grab samples at sites annually on behalf of the City. See **Figure 4: Tarrant Sampling Sites** for a map of the sampling sites

The site locations are as follows:

|  |  |  |
| --- | --- | --- |
| Water Body | Latitude, Longitude | Description |
| Five Mile Creek | 33.588181,-86.790431 | Grab Sample |

**Responsible Department: JCDH**

## Impaired Waterways

The City will review the water bodies listed in the latest final §303(d) list, annually. If a water body becomes listed that falls within the MS4 boundary, the SWMPP will be updated as needed.

**Responsible Department: JCDH**

## Monitoring Parameters and Frequency

Grab samples will be analyzed for the following parameters:

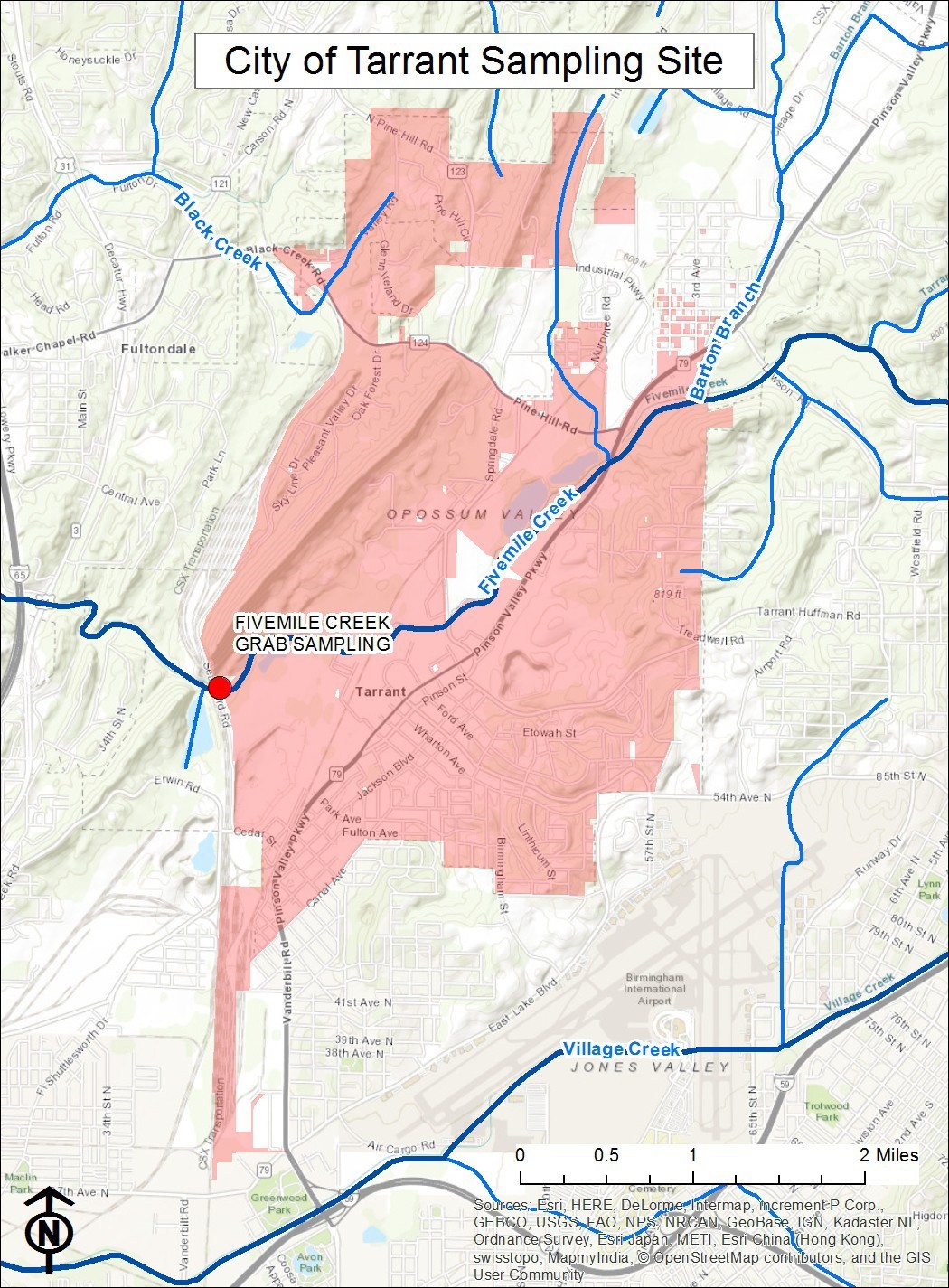
* 1. E.coli
  2. Total Nitrogen (TN) (mg/l)
  3. Total Phosphorus (mg/l)
  4. Total Suspended Solids (TSS) (mg/l)
  5. Temperature
  6. pH/ORP
  7. Turbidity (NTU)
  8. Conductivity
  9. Dissolved Oxygen (mg/l)
  10. Ammonia Nitrogen (NH3-N) (mg/l)
  11. Biochemical Oxygen Demand (BOD) (mg/l)
  12. Chemical Oxygen Demand (COD) (mg/l)
  13. Hardness as CaCO3 (mg/l)
  14. Nitrate plus Nitrite Nitrogen (NO3+NO2-N) (mg/l)
  15. Oil and Grease (mg/l)
  16. Total Dissolved Solids (TDS) (mg/l)
  17. Total Kjeldahl Nitrogen (TKN) (mg/l)

**Responsible Department: JCDH**

## Sampling Type Collection and Analysis

JCDH will collect grab samples and submit them to a certified laboratory for analysis.

**Responsible Department: JCDH**

**Figure 4: Sampling Sites**

# Other Requirements

## SWMPP Plan Review and Modification

This plan will be reviewed annually and updated as necessary.

**Responsible Departments: All Departments**

## Annual Report

The Annual Report will be compiled by JCDH for the City of Tarrant.

**Responsible Department: JCDH**