The Town of Indian Springs Village, Alabama

Stormwater Management Plan
For
Phase II MS4

May 3, 2017
Rev May 30, 2019

Developed by the Town Council of Indian Springs Village
2635 Cahaba Valley Road, Indian Springs Village, Alabama 35124

Certification

Town of Indian Springs Village, Alabama

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 gather and evaluate 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, to the best of my knowledge and belief, the information submitted is 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.

_____ _____

Brenda Bell-Guercio, Mayor Date:

ATTEST:

_____ _____

Joan Downs, Town Clerk Date:

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Chapter 1 - Introduction

1-1 Program Overview

This document presents the Town of Indian Springs Village's Stormwater Management Program (SWMP) as required by the Alabama Department of Environmental Management's (ADEM) National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Storm Sewer System (MS4) Permit. This permit covers stormwater discharges from regulated small municipalities. The overall goal of the program is to protect water quality by an effort to reduce to the maximum extent practicable the discharge of pollutants in stormwater.

1-2 Regulatory Background

In 1990, the Environmental Protection Agency (EPA) promulgated regulations establishing Phase I of the NPDES stormwater program. The Phase I program for municipal separate storm sewer systems (MS4's) requires operators of "medium" and "large" MS4s that generally serve populations of 100,000 or greater to implement a storm water management program as a means to control polluted discharges from certain municipal, industrial and construction activities into the MS4.

In 1999, EPA promulgated regulations establishing Phase II of the NPDES storm program. The Phase II program extends coverage of the NPDES storm water program to regulated "small" MS4s. A regulated small MS4 is located within an "urbanized area" as defined by the Census Bureau or as designated by the NPDES permitting authority.

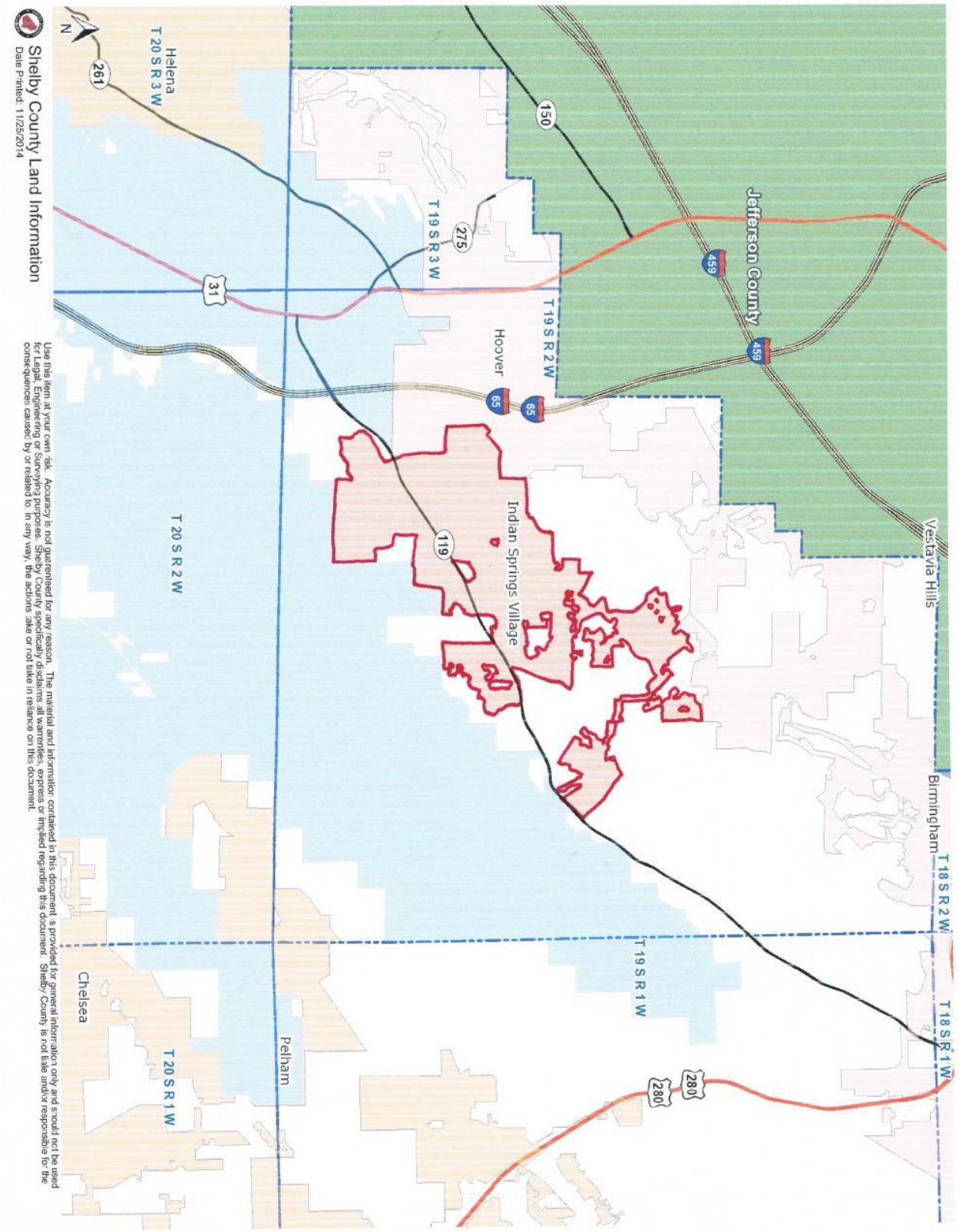
The ADEM presently has primary jurisdiction over permitting and enforcement of the storm water program for Alabama. On January 31, 2011, ADEM issued MS4 Phase II General Permit (NPDES Permit Number ALR040000) for stormwater discharges associated with small MS4s.

1-3 Regulated Area

The Phase II MS4 general permit applies to operators of regulated small MS4s that discharge storm water to waters of the State. Indian Springs Village is located in the north central part of Shelby County, Alabama, north of Oak Mountain State Park and bordered by Pelham and Hoover (see Figure 1 – Town Map). Though growth does take place in ISV there is limited undeveloped land that can be developed under the current zoning. The rural nature of the Town is desired by the citizens to be maintained. The 2000 census reported the population to be 2,225. The 2010 census was reported at 2,363, a 6.2% increase. This places Indian Springs Village in the appropriate size for a Phase II, MS4 Permit.

The area of the town is 3.6 square miles. The major drainage basin passing through the Town is Cahaba Valley Creek (Bishop Creek) which has a drainage area of approximately 17 square miles to the southwest Town Limit line. Approximately 3.2 square miles or 89% of the corporate area lie in the Cahaba Valley Creek (Bishop Creek) drainage basin. The balance of the corporate area, 0.4 square miles or 11%, lie in a small drainage basin, Acton Creek, which flows directly to the Cahaba River east of I-65.

Figure 1 – Town Map



1-4 Legal Authority

The Town of Indian Springs Village was officially incorporated October 16, 1990. As an incorporated Town, Indian Springs Village has the legal authority to create land use and design regulations for developments within the Town and its corporate limits. On November 16, 2004, the Town adopted an updated Comprehensive Plan (see Appendix A) as a guide to future development and giving support to development of Land Use regulations. On July 1, 2014, the Town adopted an updated Zoning Ordinance (see Appendix C), expanding the minimum lot size for E-1 Residential in an attempt to minimize future development impacts. The Town has completed an update of its Subdivision Regulations (see Appendix B). The major update involved drainage requirements in new developments.

1-5 Water Quality Concerns

The Town of Indian Springs Village's primary receiving water is Cahaba Valley Creek (Bishop Creek). It is listed as Fish and Wildlife by ADEM for its water use classification. Cahaba Valley Creek (Bishop Creek) discharges into Buck Creek and then the Cahaba River.

A. Discharge Compliance with Water Quality Standards
This general permit requires, at a minimum, that permittees develop, implement and enforce a storm water management program designed to reduce the discharge of pollutants to the maximum extent practicable. Full implementation of BMPs, using all known, available, and reasonable methods of prevention, control and treatment to prevent and control storm water pollution from entering waters of the State of Alabama is considered an acceptable effort to reduce pollutants from the municipal storm drain system to the maximum extent practicable.

B. Discharges to Impaired Waters
Cahaba Valley Creek (Bishop Creek) fail to meet the minimum water quality standards for their designated for pathogens (fecal coliform) on 9/23/2009. The source of the impairment is attributed to an unknown source though is considered to be due to failing septic tanks in the area. Currently there are no EPA approved TMDLs for these streams.

Figure 2 - Watershed Map

Chapter 2 - SWMP Program Management

2-1 SWMP Plan Implementation Responsibilities

The Town of Indian Springs Village is very small and has very limited staff. The Town Clerk is the only "employee", and only part time, and is only in the office three days a week, Monday, Tuesday, and Thursday 9:00 AM- 1:00 PM. The Town Council and the Mayor serve with no pay but are very active in the everyday operations and control of the Town.

A. Town of Indian Springs Village Town Council
The Town Council is responsible for the promulgation of all Town resolutions and ordinances and the approval of budgetary expenditures related to the implementation of the Stormwater Management Program. The Town Council will have a role in all of the Minimum Control Measures (MCMs), including public education, illicit discharge detection and elimination. In addition, the Town Council is responsible for Town owned and maintained grounds and landscaping and will be largely responsible for the Pollution Prevention/Good Housekeeping for Municipal Operations

B. Mayor's Office
The Office of the Mayor is responsible for overall oversight of the program, and for maintaining communication with the Town Council.

C. Town Engineer-Environmental Programs-Flood Plain Management
The Town Engineer will assist, as requested by the Mayor, with the day-to-day activities and administration of the program. The Town Engineer will assist with flood plain management, illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management, and training within the good housekeeping for municipal operation's MCM.

D. Citizens' Environmental Advisory Committee – See 3-2 Outreach Strategies, Goals and Timelines, A.

E. The Environmental Services Department, MS4 Storm Water Program Manager, of Shelby County, Alabama, will be available, under a contract basis, for local assistance.

2-2 Coordination between Local MS4s

In the past Town has relied on The Environmental Services Department, MS4 Storm Water Program Manager, of Shelby County, Alabama, for compliance with our general permit. With the approval of the Phase II MS4 Permit Indian Springs Village and Shelby County will develop an Intra-Jurisdictional Agreements. The Town anticipates sharing some of the efforts in implementing various Minimum Control Measures (MCM) of the permit such as Education Outreach and Public Participation. This coordination will be on a contract basis and allow for cost effective implementation of certain program MCMs.

Chapter 3 – Program Elements

This chapter provides guidance to staff and others to meet the requirements of the ADEM general permit for stormwater discharges from the MS4.

The six minimum control measures (MCM) are:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post Construction Stormwater Management
6. Pollution Prevention/Good Housekeeping for Municipal Operations

The following sections in this chapter will detail the MCM with the following criteria for each MCM:

- Permit Requirements
- Target Audiences
- Target Pollutant Sources
- Outreach Strategies
- Goals and Timelines
- Evaluation Techniques

3.1 Public Education and Outreach (MCM 1)

Permit Requirement

The Public Education and Outreach (MCM 1) requires the Town to implement and evaluate a public education and outreach program that distributes educational materials to the community or conducts equivalent outreach activities about the impacts of polluted discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff to the maximum extent practical.

Target Audiences

MCM 1 includes various target audiences. Residential, commercial and industrial developers have been involved in the SMWP development. The general public, schools, elected officials, developers, contractors and professional groups will be targeted for ongoing involvement in the SWMP implementation and evaluation. Federal, state and other local agencies will be included in these processes as well.

Educational materials will be specifically tailored to communicate a specific storm water pollutant concern to a targeted audience.

Target Pollutants and Sources

Non-point source pollutants found in stormwater will be targeted by MCM 1. These pollutants include, but are not limited to, sediment, trash, fertilizers, pesticides, pathogens and oils and greases. The sources that are targeted include, but are not limited to, illegal dumping, pool water disposal, car washing, home auto repair, failing septic systems, illicit discharges, impacts from development, construction site erosion, commercial parking lot runoff and improper application of fertilizers, pesticides, and herbicides.

Since the citizens of Indian Springs Village are mostly interested in water quality in terms of sediment, sediment will be primarily targeted in the public education program. This is not to imply that the previous issue Cahaba Creek will not be addressed. It will be monitored and tracked in conjunction with Shelby County. Some of the target sediment sources may include:

- Clearing and Grading
- Residential development
- Commercial development
- All-terrain trespass erosion
- Construction site erosion

Outreach Strategies, Goals and Timelines

The Town employs a variety of strategies for MCM 1 from the utilization of existing materials from other agencies and permittees to the creation of new materials to educate the targeted audiences. Some of the Town's current and future compliance activities include:

- Brochures, pamphlets
- Environmental Webpage
- Workshops
- School Presentations
- Curbside Recycling
- Watershed Signage & Environmental Awareness Signage
- Elected Officials Training

These strategies will present best management practices that are effective in reducing the impacts of pollutants on storm water runoff. Each outreach strategy will be detailed below along with its goal, timeline and department responsible for implementation of the measure.

A. Create Stormwater Education Outreach Brochures- Pamphlets:

Current Program
This element of MCM (1) will allow for the distribution of new and existing stormwater education brochures and pamphlets for targeted groups, such as: erosion and sediment control brochures for contractors working in the Town, flyers for presentations given to school children, flyers targeting residential activities to homeowners.

Potential Target Audience
Contractors, Developers, Elected Officials, General Public, Home Owners, Landscapers, Schools

Measurable Goals
In year one, the Town will compile a list of existing EPA and other storm water educational brochures and pamphlets that can be use to implement this element of the MCM 1. Also, with the guidance from the Citizens' Environmental Advisory Committee (EAC), distribution locations will be determined and the brochure/pamphlets will be placed at the desired locations for distribution.
In year two, erosion and sediment control brochures detailing effective BMPs to reduce sediment impacts to storm water will be distributed by mail to all residential home builders licensed in the Town.
In years three (3) through five (5), the Town will create one additional stormwater brochure a year with a specific target audience.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

B. Environmental Web Page:

Current Program
The internet provides a very accessible means for making information and data available to citizens. The Town's new web site will feature an Environmental Outreach page which will have a link to the Town's SWMP, MS4 Annual Report, and other stormwater related topics, as well as provide information on any existing and future storm water related activities.

Potential Targeted Audience
General Public

Measurable Goals
In year one of the permit cycle, the Town will expand its website to include an environmental outreach page and post links to its SWMPP and Annual Report on the site.

In year two of the permit cycle, the Town will expand the website to include stormwater related topics, information about the storm water management program in general, upcoming program events, information about how readers can reduce storm water impacts and links to other related websites.

In year three of the permit cycle, the Town will develop an email link for public inquiries and complaints related to stormwater.
In years four (4) and five (5), the website will be maintained and updated as needed to remain in compliance with the general permit.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

C. Workshops:

Current Program
Workshops are useful in educating a specific target audience about specific topic issues. Using existing training programs, the Town will work with its partners to sponsor workshops in a variety of storm water topics for homeowners and the professionals. Examples of some potential workshops include but are not limited to the following: Nonpoint Education for Municipal Officials (NEMO), Rain Barrel, Erosion and Sediment Control, Stream Restoration, Invasive Species Control, and Low Impact Development (LID)/Green Infrastructure (GI) Workshops.

Potential Targeted Audience
Contractors, Developers, Elected Officials, Homeowners, Landscapers, and Professionals

Measurable Goals
In year one of the permit, the Town's Environmental Programs Department will be asked to create a list of potential stormwater topics for workshops for the Town to sponsor. Using the list as a guide, the Town will sponsor one workshop per year of the permit cycle.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

D. School Presentations:

Current Program
Teaching young students the importance of proper storm water management is of utmost importance to the any storm water program. Educating the school age sector is the key to a future with successful storm water management.

Potential Targeted Audience
Classroom Students

Measurable Goals
The Town will sponsor clean water presentations to include each of the schools located within the Town limits.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

E. Curbside Recycling

Current Program
All recycling programs are a benefit to storm water management because they reduce a potential pollutant source by reducing, recycling and reusing.

Potential Targeted Audience
Homeowners

Measurable Goals
Throughout the permit cycle, the Town will encourage citizens to use the curb side recycling available through the contracted waste collection company. Environmental Programs will request data from the contractor about the quantity of recycled goods collected and report the data in the annual report. Increasing yearly totals will reflect achievement of goals. Recycling Dumpsters are located at two places in Indian Springs Village. This service is provided by Shelby County Commission under their current waste collection contract.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

F. Watershed Signage & Environmental Awareness Signage

Current Program
Watersheds are a logical way to think about the connection between the land and the quality of water we enjoy. How we manage and treat the land has a direct impact on the ability of water to support a number of important public uses like swimming, fishing, aquatic species habitat and a clean drinking water supply. Watershed signs increase public awareness about the importance of watersheds and encourage good stewardship of our valuable streams, wetlands, lakes and ground water.

Potential Targeted Audience
General Public

Measurable Goals
In year one (1) of the permit cycle, the Town will implement watershed signage within the Cahaba Valley Creek (Bishop Creek) Watershed.
In years two (2) through five (5) of the permit cycle, the Town will inspect and maintain existing watershed and environmental awareness signage.
In year 4 of the permit cycle, the Town will implement "Litter Patrol" signage within the Town Limits

Throughout the permit cycle, Environmental Programs will encourage and assist any Boy Scout seeking an Eagle Scout Project in an environmental area. For example: labeling storm drain inlets.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

G. Elected Officials Training

Current Program
Since elected officials are responsible for approving resolutions and ordinances that guide the implementation of the Town's SWMP and also have budgetary control of it, it is very important to expand their knowledge of storm water management.

Potential Targeted Audience
Elected officials

Measurable Goals
The Town will sponsor and/or host one NEMO workshop every permit cycle.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

Evaluation: The evaluation of a public education and outreach program is best measured by the goals that are met. At the end of the permit year, the Town will evaluate the overall effectiveness of MCM 1 through assessment of the success of the goals that were achieved.

3-2 Public Involvement/Participation

Permit Requirement

Public Participation/Involvement MCM 2 requires the Town communicate with the citizens during and after the development of the SWMPP. This was done by holding advertised Town meetings to receive, implement and evaluate a public participation and comments centered on the SWMPP and the annual report. The development of this program will be documented throughout the process. The ongoing activities for public involvement may include advisory councils, watershed associations, committees, stewardship programs and other environmental related activities. Once approved, the SWMP will be available to the public on the Town's website.

Target Audiences

MCM 2 includes various target audiences. Residential, commercial and industrial developers have been involved in the SMWP development. The general public, schools, elected officials, developers, contractors and professional groups will be targeted for ongoing involvement in the SWMP implementation and evaluation. Federal, state and other local agencies will be included in these processes as well.

Target Pollutants and Sources

Non-point source pollutants found in stormwater will be targeted by MCM 2. These pollutants include, but are not limited to, sediment, trash, fertilizers, pesticides, pathogens and oils and greases. The sources that are targeted include, but are not limited to, illegal dumping, failing septic systems, impacts from development, construction site erosion, commercial parking lot runoff and improper application of fertilizers, pesticides, and herbicides.

Outreach Strategies, Goals and Timelines

The Town will employ a variety of strategies for MCM 2 from involvement with existing groups to developing additional mechanisms. Some efforts will also focus on public participation as a whole. Each strategy will be detailed below along with its goal, timeline and department responsible for implementation of the measure.

A. Citizens Environmental Advisory Committee:

Current Program
The formation of a Citizens Environmental Advisory Committee was recommended to the town council in 2016 It has been established and will be made up of a diverse group of citizens including ones with engineering, biology, botany, and business experience, and to include the town engineer, and a consulting representative from the Shelby County Environmental Service, MS4 office and the North Shelby County Fire Department.

The committee would serve various roles as described in the Plan, including assisting in applying for federal and state grant monies to support its efforts in Storm Water Management through each of the MCM.

This committee is not a final policy making committee nor an appeals committee. The committee appointments would be for the 5 year permit period with a minimum of 5 members appointed by the mayor, with Council approval. Vacancies to be filled in the same manner.

The committee will hold at least four EAC meetings a year, times and dates to be posted 7 days in advance. During one of the meetings, the towns SWMP will be reviewed and suggestions made to the counsel for updates as needed to maintain permit compliance.

Measurable Goal
In year one (1), a recommendation will be made for Town Council consideration. If created, during years two through five the Town will hold at least four (4) EAC meetings a year.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

B. Watershed Organizations:

Current Program
There are no current programs that are formally developed. If contacted by other watershed groups, the Citizens' Environmental Advisory Committee will participate as requested.

C. Comprehensive Plan

Current Program
In 2004, the Town adopted a Comprehensive Plan. The Town sought public input through multiple meetings of general citizens, public officials, Town staff, the Shelby County Planning Commission and various other entities. The plan was developed as guidance for future development within Indian Springs Village. The purpose and goals contained therein clearly are directed toward the environment concerns of the Citizens. These are:

> To preserve, protect and enhance the quality of life that the citizens of Indian Springs Village enjoy now and for generations to come;
> To preserve, protect and enhance the peaceful and uncluttered atmosphere of our town, for now and for generations to come;
> To preserve, protect and enhance the beauty and serenity and tranquility which is the very essence of Indian Springs Village, for now and for generations to come;
> To protect the integrity of our community from random commercialization, piecemeal annexation and inconsistent spot zoning;

This document is available on the Town website and is attached hereto.

Measurable Goals

Within the permit cycle, the Comprehensive Plan would be reviewed by the Environmental Advisory Committee (if created) and the committee will make recommendations for the future update.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

D. Coordination with other Agencies and Groups on Environmental Efforts

Current Programs
At present there are no formal programs that formally outreach to existing environmental groups. The establishment of the Environmental Advisory Committee (if created) will be the lead team to develop relationships with Shelby County's Department of Environmental Affairs and organizations such as the Cahaba River Society.

Responsible Departments
Environmental Programs

Evaluation

The evaluation of a public participation/involvement program is best measured by the goals that are met. At the end of the permit year, the Town will evaluate the overall effectiveness of MCM 2 through assessment of the success of the goals that were achieved.

3-3 Illicit Discharge Detection and Elimination (IDDE)

Illicit discharges into a storm drain system are defined by EPA as "….any discharge to a MS4 that is not composed entirely of stormwater…" Some exceptions include but are not limited to permitted industrial sources and discharges from firefighting activities. Some examples of illicit discharges include: sanitary wastewater, car wash, laundry wastewaters, etc. These illicit discharges can enter a storm drain system either through a direct connection or indirectly by spills, dumped materials, and cracks in pipes. As a result, inadequately treated waste containing high levels of pollutants enter stormwater.

Permit Requirement

The Illicit Discharge Detection and Elimination (MCM 3) requires the Town to develop, implement, enforce and evaluate a program to detect and eliminate illicit discharges and improper disposal, including spills not under the purview of another responding authority, into the Town's regulated MS4 area, to the maximum extent practicable. The program must include the following:

Annually update the stormwater infrastructure inventory map, showing the location of all outfalls and the names and locations of all waters of the State that receive discharges from those outfalls; structural BMPs owned, operated, and maintained within the boundaries of the Town's MS4 area.

To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into the MS4 and implement appropriate enforcement procedures and actions. The ordinance shall be reviewed on an annual basis and updated when necessary.

Develop and implement a plan to detect and address non-stormwater discharges, including illegal dumping, to the system that are not authorized by a separate NPDES permit;
Inform public employees, businesses, and the general public of the hazards that are generally associated with illegal discharges and improper disposal of waste.

Exclusions

The Illicit Discharge Detection and Elimination MCM will include measures to control illicit discharges and improper disposal of wastes into stormwater. In the execution of this element, the Town of Indian Springs Village will exclude the following categories of non-stormwater discharges that are not required to be addressed by the State:

Water Line Flushing
Landscape Irrigation
Diverted Stream Flows
Rising Ground Waters
Uncontaminated Groundwater Infiltration
Uncontaminated Pumped Groundwater
Discharges from Potable Water Sources
Foundation Drains

Air Conditioning Condensation
Irrigation Water
Springs
Water from Crawl Space Pumps
Footing Drains
Lawn Watering
Individual Residential Car Washing
Flows from Riparian Habitats and Wetlands
De-chlorinated Swimming Pool Discharges
Fire Fighting Flows

Target Audiences

MCM 3 includes various target audiences. residential, commercial and industrial developers have been involved in the SMWP development. The general public, schools, elected officials, developers, contractors and professional groups will be targeted for ongoing involvement in the SWMP implementation and evaluation. Federal, state and other local agencies will be included in these processes as well.

Target Pollutants and Sources

Non-point source pollutants found in stormwater will be targeted by MCM 3. These pollutants include, but are not limited to, sediment, paints, fertilizers, pesticides, swimming pool discharges, pathogens and oils and greases. The sources that are targeted include, but are not limited to, illegal dumping, failing septic systems and/or illicit connections, swimming pool illicit connections, unpermitted construction site discharges, improper disposal of fertilizers, pesticides, and herbicides, paints, etc.

The Town of Indian Springs Village does not have operational or financial control over any sanitary sewer systems. Southwest Water Company maintains the systems and is responsible for their ADEM permits.

However, the Town and the Southwest Water Company have a great relationship and work together to achieve compliance with all environmental permits.

Outreach Strategies, Goals and Timelines

The Town will employ a variety of strategies for MCM 3 from creation and enforcement of ordinances to education outreach. The Town's goal is to reduce illicit discharge to our MS4 to the maximum extent practicable. Each strategy will be detailed below along with its goal, timeline and department responsible for implementation of measure.

A. Compiling and Organizing Existing Town's Stormwater Infrastructure Data

Current Program

This element of MCM 3 will involve staff locating all existing stormwater infrastructure data in GIS format, manipulating it into more usable software and creating new maps. Currently, the Town is mapping the location of existing stormwater outfalls that discharge to state waters.

Measurable Goal
In year one of the permit cycle, the Town plans to locate and map 25% of existing stormwater outfalls that discharge directly to State waters.

In year three (3), the Town completed the mapping 100 % of known outfalls. We have also developed and implemented Standard Operating procedures and made them a part of this SWMPP. In year three the Town would has created a storm water outfall maintenance database that tracks the location, description, condition of each existing outfall with an additional layer to track inspections and notes. The database will also allow for the addition of new outfalls submitted in As-built form to the Town of Indian Springs Village inspections and notes. The database will also allow for the addition of new outfalls submitted in As-built form to the Town of Indian Springs Village.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

B. Perform Field Assessments and Site Inspections

Current Program
Field assessments are observations made during the daily duties of the Town Council. By the very nature of the volunteer spirit of the Town Council and the inherent involvement of the citizens in storm water issues, reporting of IDDE's takes place in a very effective manner under the present system. The main additional aspect of tracking and reporting is the educational component with will be accomplished through the programs in this SWMP.

Measurable Goals
During the permit period the Town will track and report occurrence of an IDDE and report same to ADEM or other appropriate agencies.
Educate the general public and commercial and industrial developments on hazards associated with illegal discharges.
Initiate basic field assessments to establish priority areas for the more focused inspections.
Conduct an annual minimum of dry weather screenings of at least 15% of the outfalls at least 72 hours after any rainfall to determine if illicit connections exist.
Respond per established procedures to all identified and reported potential illicit discharges and connections. Such connections will be investigated by ISV and either resolved locally, with the aid of the County or by seeking assistance from ADEM. ADEM will be notified of all IDDE's via email or if necessary US mail.
Collect and review data regarding enforcement activities in year five, as part of the annual report, to identify the principle pollutants and plan for future action to address that pollutant.

Responsible Departments:
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

C. Hazardous Materials Response Program

Current Program
The stormwater program will be coordinated with the existing hazardous materials response program operated by the North Shelby Fire District. The Town Council and the Town Engineer coordinate with the hazardous materials response program will assist in this effort. The North Shelby Fire District currently operates an existing hazardous materials response program in coordination with the Shelby County Emergency Management Agency.

Measurable Goals
In year one (1), the Town will:
Meet with the Fire Department to develop and implement strategies for incorporating stormwater pollution prevention practices into the hazardous materials response program.
Monitor location, frequency, and type of response events and report information in the Annual SWMP report.
In years two (2) through five (5):
Establish section on Environmental Web Page for Public Inquiries and Reports regarding illicit discharges.
Advertise IDDE information on the Town Webpage, in educational brochures/flyers and through local media/radio.
Receive, respond and report appropriately to all reported events or inquiries fielded from the public

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

D. Train Town Staff

Current Program
The goal of this element is to assure that Town Council, staff, and contract service employees understand stormwater issues and are appropriately trained to recognize and report illicit discharges and connections while performing their normal duties in the field. Training will be provided to hazardous materials response teams, public works, and other employees. These training sessions may be offered in conjunction with other training elements of the program.

Measurable Goals
In year one (1), the Town will:
Develop a training presentation for new hires on basic stormwater issues
Develop a training presentation for new hires on IDDE

In year two (2) through (5), the Town will
Provide one general stormwater training session annually for new employees involved in program.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

Evaluation: The evaluation of a MCM 3 program is best measured by the goals that are met. At the end of the permit year, the Town will evaluate the overall effectiveness of MCM 3 through assessment of the success of the goals that were achieved.

3-4 Construction Site Stormwater Runoff

Permit Requirement

The Construction Site Stormwater Runoff Control (MCM 4) requires the development, implementation and enforcement of a program to reduce, to the maximum extent practicable, pollutants in any storm water runoff to the MS4 from construction activities that result in a total land disturbance of greater than or equal to one acre and activities that disturb less than one acre but are part of a larger common plan of development or sale that would disturb one acre or more. ADEM terms these sites as qualified construction sites.

Target Audiences

MCM 4 will target developers, contractors, home builders and professional consultants. MCM 4 will include the training of Environmental Advisory Committee, Cahaba Valley Creek (Bishop Creek) Group, Town Staff and Council. Federal, state and county agencies will also be included through coordinated efforts within the program.
Targeted Pollutants and Sources

MCM 4 will mainly target construction sites for erosion and sediment control. Other potential targeted pollutants and sources are petroleum, oils and greases from equipment storage areas, pathogens from lack of portable facilities and pH changes through concrete washouts.

Outreach Strategy, Goals and Timeline

The Town will employ a variety of strategies for MCM 4 from training Environmental Advisory Committee, Cahaba Valley Creek (Bishop Creek) Group, Town Staff and Council to implementing and enforcing an erosion and sediment control program through Town ordinances. The Town will rely upon ADEM standards for appropriate erosion and sediment controls for qualified construction sites. There will also be a focus on coordination with ADEM on compliance concerns. Each strategy will be detailed below along with its goal and timeline and department responsible for implementation of measure.

A. Residential Erosion and Sediment Control Ordinance

Current Program
The Town depends on Shelby County Development Services and ADEM to monitor and enforce erosion and sediment control. The Town intends to continue the process of having Shelby County Inspection Services monitor erosion from construction sites. We will also continue to rely on ADEM to assist in situations where they are needed. However, our new Erosion and Sediment Control Ordinance allows us to be proactive in control of sedimentation. Individual citizens are also the eyes of the

Town for these matters. There is a short note on the ISV Environmental Web Page explaining what to look for and how to get the word out to Town officials.

Measurable Goals
In the first year of the permit, the Town will pursue an Erosion and Sediment Control Ordinance. This ordinance would regulate land disturbances that exceed a TBD area of exposed soils associated with land disturbance with the exception of agricultural operations.
In year second and every year remaining on the permit cycle, the Town Engineer will update its existing Erosion and Sediment Control Ordinance (if needed).

Responsible Departments
TOWN COUNCIL
Assisted by the CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

B. Commercial Land Use and Development Ordinance

Current Program
The Town currently relies on Shelby County Development Services and ADEM for all residential home construction. For new subdivision and commercial, new and re-developments, within the Town of Indian Springs Village corporate limits , an erosion and sediment control plan is required to be designed and submitted by a qualified credentialed professional (QCP). This plan is reviewed and approved by the Town Engineer and then forwarded to the Planning and Zoning Commission for approval. Components of the plan have to meet and/or exceed the Alabama

Handbook for Best Management Practices for Erosion and Sediment Control, most current edition (Alabama Handbook) and ADEM permit requirements. If for any reason, additional state and federal permits are required, such as an ADEM NPDES or US Corps wetland permit, the Town will not issue the site a land disturbance permit or building permit until proof of the federal or state permit is submitted to the Town. Sites are inspected along with building inspections for compliance with the ordinance. Enforcement mechanisms include written warning letters, stop work orders and municipal fines through the issuance of municipal offense tickets.

Measurable Goals
In years one (1) through five (5), the Town will review 100% of all submitted new and re-development erosion and sediment control plans.

Responsible Department
TOWN COUNCIL
Assisted by the CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

C. Erosion and Sediment Control Training for Town Building Inspectors

Current Program
The Town Engineer will receive, annual or as necessary, training, as necessary, through the ADEM's Qualified Credential Inspector Program. This training gives the inspectors the knowledge needed to effectively monitor single family residential and commercial construction sites for erosion and sediment controls and stormwater runoff concerns.

Measurable Goals
In years one (1) through five (5), continue the training, as necessary, required to keep Town Engineer current in certifications. Track the training and submit data in the Town's Annual SWMP Report.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

D. Commercial and Residential Construction Site Inspections and Enforcement

Current Program
Inspections of all construction sites are an integral part of MCM 4. Prior to the start of any land disturbance on a qualified construction site, the developer must submit their ADEM construction general permit authorization. The Town maintains an inventory of all qualified construction sites within the MS4 area. Currently, all qualified construction sites are inspected a minimum of twice during the construction process. The Town has created an Erosion and Sediment Control Inspection Form (See Appendix F) that includes the following: developer/owner information, current weather conditions, status of BMPs, deficiencies noted, if a re-inspection is required and if enforcement action will be pursued. During the inspection, all discharge points are inspected and the site conditions are compared to the approved erosion and sediment control plan. Any deficiencies are noted and reported to the site manager and/or the developer. The developer has 48 hours to correct all deficiencies from the inspection or face a stop work order until they are corrected. The construction site is not completed until all areas are permanently stabilized, all construction debris removed and temporary sediment control structures removed. A final inspection is required prior to release from the permit.

Enforcement varies based on the severity of the deficiencies. Minor concerns will receive a written or verbal warning requiring 48 hours to comply with the ordinance. If not corrected or there are major deficiencies, the Town may stop work on the construction site. Stop work orders are typically issued on sites with active construction while BMP deficiencies still exist. When an erosion or sediment control complaint regarding a construction site is received, immediate action is taken by Environmental Programs to inspect, document and resolve the compliance issue using enforcement if needed. If needed, the Town will contact ADEM via email to request assistance. Citizens that see problem construction sites should contact the Town Hall.

Measurable Goals
Although the Town has an informal construction site inspection program, there is a need for enhancing several aspects in order to maintain compliance with the new general permit.

The Town has adopted an Erosion and Sediment Control Ordinance to add the possibility of a Municipal Ordinance Ticket to the enforcement process. Site inspections will be prioritized based on status of construction, site conditions, location and size of site and proximity of site to sensitive areas such as streams and wetlands. Priority construction sites include qualified construction sites that

discharge to an impaired water listed for sediment or an Outstanding Alabama Water. Therefore; any sites that discharge to the Cahaba Valley Creek (Bishop Creek) Watershed are considered priority construction sites. Priority construction sites will receive precedence in inspections.

In year three, the Town's goal is to enhance the database used to track all inspections and timelines for site compliance.

In year four, the Town will determine the overall effectiveness of the program and modify as needed for permit compliance, by year five.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

E. Construction Associated with Sensitive Areas

Current Program
Indian Springs Village is located in the Cahaba River Watershed. In order to prevent impacts to these sensitive areas, the Town requires that all construction sites within it corporate limits possess approved federal and state permits prior to issuance of any land disturbance and/or building permit. After the permitting process, the site is inspected during construction and a final inspection is performed upon completion to ensure that there are no adverse environmental impacts that have occurred during construction.

Measurable Goals
The Town plans to strengthen the implementation of this review process.

In year three (3), the goal would be to review the inspection process to determine if additional inspection requirements are warranted for these sites. These inspections would be documented as all other construction inspections. Also, any major deficiencies observed will reported to the appropriate federal or state agency.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

Evaluation: The evaluation of the program will include the achievement of the program goals. Also during the permit term, the effectiveness of the program will reveal itself based on construction site compliance. The results of the program will be evaluated annually and documented in the annual report.

3-5 Post Construction Storm Water Management in New and Re-Development

The Town will employ a variety of strategies for MCM 5 from enforcement of ordinances to education outreach. The Town's goal is to minimize water quality impacts from new development and re-development sites. Each strategy will be detailed below along with its goal:

Permit Requirements
Develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre by insuring that controls are in place that would prevent or minimize water quality impacts.
Develop and implement strategies, which include a combination of structural and/or non-structural BMPs appropriate for the community.
Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State or local law.
Ensure adequate long term operation and maintenance of BMPs.
If needed, the Town will contact ADEM via email to request assistance. Citizens that see problem construction sites should contact the Town Hall.

Target Audiences

MCM 5 will target developers, contractors, and property owners associations.

Target Pollutants and Sources

Non-point source pollutants found in stormwater will be targeted by MCM 5. These pollutants include, but are not limited to, sediment, paints, fertilizers, pesticides, swimming pool discharges, pathogens and oils and greases. The sources that are targeted include, but are not limited to, illegal dumping, failing septic systems and/or illicit connections, swimming pool illicit connections, unpermitted construction site discharges, improper disposal of fertilizers, pesticides, and herbicides, paints, etc.

Strategies, Goals and Timelines

The Town will employ a variety of strategies for MCM 5 from enforcement of ordinances to education outreach. The Town's goal is to reduce water quality impacts from new development and re-development to the maximum extent practicable. Each strategy will be detailed below along with its goal, timeline and department responsible for implementation of measure.

A. Perform Field Evaluations and Long-term Maintenance and Monitoring of BMPs

The goal of this element is to periodically review and assess the performance of the post-construction BMPs installed with new and re-development projects. Field inspections verifying the adequate construction of the BMPs in accordance with the approved improvement plans will be performed along with permit cycle inspections. The field inspections will include an evaluation of the BMP's and how well the BMP has been maintained since construction. Performance and potential improvements will be noted.

If possible, the BMPs will be viewed while functioning during a rainfall event. Information gathered with this element will be used to revise acceptable BMPs and processes.

Measurable Goals
In year one (1), the Town will update, as needed, design review guidance for plan reviewers.
In years one (1) through five (5), the Town will review a minimum of 20% of post-construction BMP'S annually, evaluate performance and design, and report the results in the annual reports and conduct enforcement as required to ensure compliance.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

B. Low Impact Development/Green Infrastructure Ordinance

Low-Impact Development is a term used to describe a land planning and engineering design approach to managing stormwater runoff. LID emphasizes conservation and use of on-site natural features to protect water quality. This approach implements engineered small scale hydrologic controls to replicate the predevelopment hydrologic regime of watersheds through infiltrating, filtering, storing, evaporating, and detaining runoff close to its source.
Green Infrastructure is a concept that highlights the importance of the natural environment in decisions about land use planning. In particular there is an emphasis on the "life support" functions provided by a network of natural ecosystems with an emphasis on interconnectivity to support long term sustainability. EPA has extended the concept to apply to the management of stormwater runoff at the local level through the use of natural systems, or engineered systems that mimic natural systems to treat polluted runoff.

Measurable Goals
In year three, the Town will survey local consultants and citizens to aid in the development of a Low Impact Development/Green Infrastructure Ordinance.
In year four, the draft ordinance will be presented to Town departments for internal review. Once the comments are addressed from the internal review, the new ordinance will be taken to the Town Council for review and adoption.
In year five (5), the ordinance will be implemented.

Responsible Departments
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

C. Perform Education Outreach for the Development Community

Education and outreach is required to assure that the development community is informed about the program and correct design standards to minimize pollutants discharged in stormwater runoff. Outreach activities will include distribution of existing or new education materials in conjunction with the Public Education and Outreach MCM, and sponsorship of workshops targeted to the development community.

Measurable Goals
Years one (1) through five (5), the Town will create new or gather existing available outreach materials from local agencies to have available for contractors and the general public at specific locations determined under the Public Education/Outreach MCM.

Responsible Department
CITIZENS' ENVIRONMENTAL ADVISORY COMMITTEE

Evaluation

The evaluation of a MCM 5 program is best measured by the goals that are met. At the end of the permit year, the Town will evaluate the overall effectiveness of MCM 5 through assessment of the success of the goals that were achieved.

3-6 Pollution Prevention/Good Housekeeping for Municipal Operations Permit Requirement

Pollution Prevention/Good Housekeeping for Municipal Operations (MCM 6) requires the Town to develop and implement a program for pollution prevention and good housekeeping at municipal operations. Our only facilities are the Town Hall and our Meeting/File Building. Therefore, this section is not applicable to Indian Springs Village.

Chapter 4-Water Quality Monitoring Plan

There are monitoring requirements for the Phase II, MS4 Permit for Cahaba Creek (Bishop Creek). However, Indian Springs Village will cooperate fully with Shelby County in the monitoring and enforcement of water quality issues in the basin.

Chapter 5-Record Keeping and Reporting

The State's general permit requires the submission of an annual report, reports are due on March 31st of each year during the first five-year permit term. These reports must be certified by the governing body or an official designated by the governing board. At a minimum, the annual reports will contain the following information:

1. Status of compliance with permit conditions;
2. An assessment of the appropriateness and effectiveness of the identified BMPs;
3. Status of the identified measurable goals of reducing the discharge of pollutants and protecting water quality.

Results of information collected and analyzed, including monitoring data, if any, during the reporting period;

A. A summary of the stormwater activities the Permittee plans to undertake during the next reporting cycle;
B. An assessment of the appropriateness and effectiveness of the identified BMPs;
C. Any proposed change(s) to the SWMP along with a justification why the change(s) are necessary; and a change in the person or persons implementing and coordinating the SWMP.

The Town Engineer and Mayor are responsible for assembling information for the annual reports. Forms for use in recordkeeping by involved departments will be developed to facilitate collection of the information required for the annual reports. Shelby County Environmental Services will assist in the development and preparation of the Annual Report.

The Town will keep records required by the permit for at least five years, or the duration of the permit. The records used to document compliance with the SWMP will be available to the public during regular business hours from the various implementing departments. The SWMP and related documents may be viewed in the Town Hall, 2635 Cahaba Valley Road, Indian Springs, AL 35124, Phone 205-982-1755

Chapter 6 – List of Figures

Chapter 7-Appendices

ONLY LINK TO WEB PAGE PROVIDED
FOR EACH APPENDIX

Web page is at:
www.indinsoringsvillage.org

Appendix A

Indian Springs Village Comprehensive Plan

Web page Linc

https://indianspringsvillage.org/wp-content/uploads/2019/02/isv-comprehensive-plan.pdf

Appendix B

Indian Springs Village Subdivision Regulations

Web page Link

http://indianspringsvillage.org/wp-content/uploads/2017/08/2015-006-Sub-Division-Regs-final.pdf

Appendix C

Zoning Ordinance

Web page Link

http://indianspringsvillage.org/wp-content/uploads/2017/08/2015-002-Zoning-Ordinance-7.pdf

Appendix D

Erosion and Sediment Control Ordinance

Web page Link

http://indianspringsvillage.org/wp-content/uploads/2017/08/Erosion-and-Sedimentation-Control-Ordinance-No-2016-003.pdf

Appendix E

SOP for IDDE Monitoring

Appendix F

Indian Springs Village Site Inspection Form

Site Inspection Form
Erosion Control
Town of Indian Springs Village

Site Address: _____ Date: _____

Parcel ID: _____

Inspector: _____

Initial Inspection: ____ Periodic Inspection: _____ Final Inspection: _____

Bond Released Date: _____

Type of Construction:

Residential: _____

Commercial: _____

Other: _____

Specify:

_____

_____

_____

Owner: _____ On Site YES NO

Contractor: _____ On Site YES NO

Individual on site that report delivered to:

Name: _____

Phone Number: _____

Email Address: _____

Comment on Condition:

_____

_____

_____

Correction Action Required:

_____

_____

_____

Report delivered __ Emailed___

INSPECTOR SIGNATURE: _____