



Phase II Stormwater Program

Stormwater Management Program Plan

Annual Report

Effective — 4/1/2017 — 3/31/2018

Office of the City Engineer

The City of Tuscaloosa will develop, revise, implement, maintain, and enforce a stormwater management program (SWMP) that will 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 Parts 122.30-122.37. These requirements will be met by the development and implementation of a stormwater 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).

The City of Tuscaloosa will provide and maintain adequate finance, staff, equipment, and support capabilities necessary to implement the SWMPP and comply with the requirements of the NPDES Permit No. ALR040021.

Included in this SWMPP is a map of the City of Tuscaloosa's MS4 Urbanized Areas and Outfalls, the BMPs that will be implemented for each control measure and their respective responsible person, measurable goals, and a proposed schedule.

The Minimum Stormwater Control Measures:

- **Public Education and Public Involvement on Stormwater Impacts**
- **Illicit Discharge Detection and Elimination (IDDE) Program**
- **Construction Site Stormwater Runoff Control**
- **Post-Construction Stormwater Management in New Development and Redevelopment**
- **Pollution Prevention/Good Housekeeping for Municipal Operations**

The City of Tuscaloosa acknowledges that the activities and associated schedules outlined by the SWMPP, or updates to the SWMPP, are conditions of the permit. Unless otherwise specified in this permit, The City of Tuscaloosa shall be in compliance with the conditions of this permit by the effective date of coverage.

The person responsible for the implementation of the overall SWMP is as follows:

Joshua D. Yates, CFM
Watershed Manager
P.O. Box 2089
Tuscaloosa, AL 35403
(205) 248-5387
jdyates@tuscaloosa.com

PUBLIC EDUCATION AND PUBLIC INVOLVEMENT ON STORMWATER IMPACTS

The City of Tuscaloosa will engage in a continuous Stormwater Education Campaign to educate and include the public in stormwater management. We will use a combination of websites, brochures, seminars, newspaper ads, radio and television spots, and social media to maximize our outreach efforts. The City will inform the Public concerning the impacts of stormwater pollution and educate the Public about individual actions that can reduce contaminated discharges. The City will provide opportunities for Public input and involvement.

We will also tailor aspects of the campaign to reach the following target audiences:

- **General Public**
 - General impacts litter has on water bodies, how trash is delivered to streams via the MS4 and ways to reduce the litter;
 - General impacts of stormwater flows into surface water from impervious surfaces; and
 - Source control BMPs in areas of pet waste, vehicle maintenance, landscaping and rain water reuse.
- **General Public, Businesses, Including Home-Based and Mobile Businesses**
 - BMPs for use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials; and
 - Impacts of illicit discharges and how to report them.
- **Homeowners, Landscapers, and Property Managers**
 - Yard care techniques that protect water quality;
 - BMPs for use and storage of pesticides and fertilizers;
 - BMPs for carpet cleaning and auto repair and maintenance;
 - Runoff reduction techniques, which may include but not limited to site design, pervious paving, retention of forests, and mature trees; and
 - Storm water pond maintenance.
- **Engineers, Contractors, Developers, Review Staff and Land Use Planners**
 - Technical standards for construction site sediment and erosion control;
 - Storm water treatment and flow control BMPs
 - Impacts of increased storm water flows into receiving water bodies; and
 - Run-off reduction techniques and low impact development (LID)/green infrastructure (GI) practices that may include, but not limited to, site design, pervious pavement, alternative parking lot design, retention of forests and mature trees to assist in storm water treatment and flow control BMPs.

The Education Program is intended to target the following pollutant sources:

- Nutrients (Fertilizer Usage)
- Sediment (Construction Activity)
- Pathogens (Pet Waste Disposal)
- Hydrocarbons (Vehicle Maintenance and Parking Lot Runoff)
- Metals (Vehicle Maintenance)
- Debris (Grass Clipping/Limb Disposal and Littering)

IMPLEMENTATION SCHEDULE

BMP	DESCRIPTION	PROGRESS	RESPONSIBLE PARTY / SCHEDULE
STORMWATER PHASE II WEBSITE	WEBSITE FOR STORMWATER INFORMATION AND COMPLAINTS, ADVERTISE LAKE/STREAM CLEAN UPS & LID/GI INFORMATION	www.townstormwater.com WEBSITE ACTIVE SINCE OCTOBER 2012, & UPDATED EVERY FEW MONTHS VISIT FOR DETAILS	JOSH YATES ACTIVE
STORMWATER EDUCATION BROCHURE	UPDATE, PRINT AND DISTRIBUTE STORMWATER EDUCATION BROCHURE	FOUND ON WEBSITE AND HANDED OUT AT EVENTS, AVAILABLE AT CITY HALL, LAKES DIVISION, & ENVIRONMENTAL SERVICES	JOSH YATES ACTIVE
STORMWATER SEMINARS	WILL HOST / ATTEND / PROVIDE SEMINARS TARGETED TOWARDS ENGINEERS, INSPECTORS, AND CONTRACTORS TO EDUCATE THEM ON STORMWATER	ATTENDED AND SPOKE AT CAHABA CONNECTIONS MEETING, ATTENDED NATIONAL ASFPM CONFERENCE, ALABAMA WATER RESOURCES, QCI COURSE, GREEN INFRASTRUCTURE MEETINGS, ADEM NON-POINT CONFERENCE, TALKED TO SEVERAL UA CLASSES	JOSH YATES ACTIVE
MANHOLE LABELING	LABEL MANHOLE LIDS ON INLETS THROUGHOUT THE CITY	"DRAINS TO WATERWAYS" "DUMP NO WASTE"	BRYAN GURNEY / JEREMY JONES ACTIVE

		THESE PHRASES ARE ON ALL INLETS FOR NEW PROJECTS THROUGHOUT THE CITY	REQUIRED THROUGH THE LDP PROCESS
STORMWATER AD CAMPAIGN	RADIO, TV & NEWSPAPER ADS, FACEBOOK, TWITTER, ELECTRONIC BILLBOARDS, ETC.	STARTED A STORMWATER MARKETING PROGRAM (SEE ADS)	JOSH YATES / ASHLEY CHAMBERS ACTIVE
WEBSITE SURVEY	SURVEY ADDED TO OUR WEBSITE TO REQUEST FEEDBACK	WE HAVE A PLACE FOR CONTINUOUS FEEDBACK ON OUR WEBSITE BUT NO ACTIVITY	JOSH YATES ACTIVE REVIEW ANNUALLY
DON'T CLOG WITH FOG	FOG (FATS, OILS AND GREASE)	CONTINUOUS ADVERTISEMENT	ASHLEY CHAMBERS ACTIVE
STORMWATER LEAFLET	INSERTED INTO THE WATER BILL ONCE PER YEAR	PUT THIS MONEY INTO THE STORMWATER MARKETING PLAN	JOSH YATES / ASHLEY CHAMBERS ACTIVE
VOLUNTEER MONITORING	WORK WITH WATERSHED GROUPS TO PROVIDE MONITORING ASSISTANCE	1 KIT IS OUT 1 IS AVAILABLE	JOSH YATES ACTIVE 3 KITS AVAILABLE
LAKE/STREAM CLEANUPS	2 SCHEDULED LAKE TUSCALOOSA "CLEAN OUR LAKES" & STREAM/LITTER CLEANUP AS NEEDED	HAD ONE TAKE PLACE SEPTEMBER 23 RD . 2017, ON LAKE TUSCALOOSA 96 VOLUNTEERS, 16 boats 3,520 lbs. of litter removed from Lake Tuscaloosa	JOSH YATES / ASHLEY CHAMBERS ACTIVE
HOUSEHOLD HAZARDOUS WASTE AMNESTY DAY	A SAFE AND ENVIRONMENTALLY ACCEPTABLE WAY TO DISPOSE OF WASTE INSTEAD	HELD JUNE 3 RD . 2017	ASHLEY CHAMBERS ACTIVE

	OF POURING ON THE GROUND		
CITY-WIDE RECYCLING PROGRAM	RECYCLES PAPER, PLASTICS, CARDBOARD, METALS, ETC.	ONGOING	ASHLEY CHAMBERS ACTIVE
ENVIRONMENTAL SERVICES AND TDOT LITTER PATROL	CREWS THAT PATROL FOR LITTER AND COLLECTS GARBAGE/TRASH	ONGOING	ASHLEY CHAMBERS ACTIVE
TUSCALOOSA 311	EXISTING SYSTEM PROVIDING "ONE CALL" ACCESS TO CITY GOVERNMENT	ONGOING	JOSH YATES ACTIVE
SIGN POSTING	SIGNS REFERENCING LOCAL CODES THAT PROHIBIT LITTERING AND ILLEGAL DUMPING	NOT AWARE OF ANY NEW SIGNS POSTED	ASHLEY CHAMBERS ACTIVE
WATERSHED EDUCATION	PROGRAM DESIGNED TO BRING LOCAL BUISNESSES, STAKEHOLDERS, AND WATER QUALITY ADVOCATES IN TO EDUCATE SCHOOL CHILDREN	ONGOING	JOSH YATES / ASHLEY CHAMBERS 2017
TUSCALOOSA AREA STORMWATER WORKING GROUP	IN LIGHT OF THE CLEAN WATER PARTNERSHIP DISSOLVING, THIS WOULD INCLUDE A COLLABORATIVE EFFORT ON THE PART OF THE LOCAL MS4s TO MEET BI-MONTHLY TO DISCUSS ISSUES THAT WE FACE AND PROVIDE SOLUTIONS FOR STORMWATER PROBLEMS	MET ONCE WITH LOCAL MS4'S MARCH 31 ST , 2017	JOSH YATES / ASHLEY CHAMBERS PLAN TO BEGIN IN 2017 BI-MONTHLY MEETINGS

Annual Report Requirements:

- Records of all of the Ads run (date/time/station/etc.) (SEE ADS)
- Examples of the Brochure/Leaflet/Educational Material and the # distributed (TTOWNSTORMWATER.COM)
- List of Seminars attended/hosted/presented SEE SEMINAR ABOVE
- # of new Manhole Lids and Signs 250 PERMITS ISSUED
- # of Volunteers for Clean-ups along with dates and times the Clean-ups were held SEE LAKE/STREAM ABOVE
- # of Stakeholders and Participants in the Watershed Education 5,406 Participants
- Evaluation of the Effectiveness of the Programs based on Surveys NO NEW SURVEYS TAKEN
- All information will also be made available on our website and also upon request ALL INFORMATION IS AVAILABLE UPON REQUEST, MOST IS ON WEBSITE

ILLICIT DISCHARGE DETECTION AND ELIMINATION

The City of Tuscaloosa will implement an ongoing program to detect and eliminate illicit discharges into the MS4, to the maximum extent practicable. The City will identify and eliminate illicit discharges through a comprehensive outfall mapping and wet and dry-weather inspection program.

IMPLEMENTATION SCHEDULE

BMP	DESCRIPTION	PROGRESS	RESPONSIBLE PARTY / SCHEDULE
STORMWATER OUTFALL MAP	OUTFALLS HAVE BEEN PREVIOUSLY MAPPED. WE ARE RE-MAPPING WITH CITY FORCES INCLUDING PHOTOS & MORE INFORMATION & AT THE SAME TIME DRY WEATHER SCREENING	CONTINUOUS PROCESS MAP AS WE HAVE THE RESOURCES AVAILABLE TO DO SO	RUSS BARTON RE-MAP OUTFALLS ANNUALLY UNTIL THE ENTIRE MS4 URBANIZED AREA IS UP TO DATE 2017
STORMWATER PHASE II ORDINANCE	ORDINANCE FORBIDDING NON-STORMWATER DISCHARGES TO MS4 & FORCES DEVELOPMENT TO REDUCE THE POLLUTANT DISCHARGE TO THE MS4	REVIEWED	JOSH YATES ACTIVE
DRY WEATHER SCREENING PROGRAM	ESTABLISH GPS-BASED OUTFALL INSPECTION PROGRAM	CONTINUES IN CONJUNCTION WITH OUTFALL MAPPING	RUSS BARTON 2017

	INTEGRATE INSPECTION DATA WITH GIS OUTFALL LAYER.		20% SCREENED PER YEAR
LITTER AND NUISANCE ORDINANCE	ORDINANCE FORBIDDING LITTER ACCUMULATION ON LOTS WITHIN THE CITY	CONTINUOUS	ASHLEY CHAMBERS ACTIVE
BACKGROUND SAMPLING PROGRAM	SAMPLE AND TEST STREAM FLOWS WITHIN EACH WATERSHED TO DETECT POSSIBLE ILLICIT DISCHARGES	SCHEDULED FOR 2018	JOSH YATES EVERY 5 YEARS, LAST PERFORMED IN 2013, NEXT SAMPLING WILL BE IN 2018
IDDE DETECTION STRATEGY	ADOPT PROCEDURES TO IDENTIFY POTENTIAL ILLICIT DISCHARGE SOURCES WE REFERENCE <i>Illicit Discharge Detection and Elimination: A Guidance Manual (DR. PITT)</i>	CONTINUOUS IN CONJUNCTION WITH DRY WEATHER SCREENING	RUSS BARTON / SELVIN GREENE ACTIVE
STANDARD OPERATING PROCEDURES	PROCEDURES FOR TRACING THE SOURCE OF A SUSPECT ILLICIT DISCHARGE, ELIMINATING AN ILLICIT DISCHARGE, AND NOTIFYING ADEM IF A SUSPECT ILLICIT DISCHARGE IS ENTERING THE MS4 FROM AN ADJACENT MS4	SOPS HAVE BEEN ESTABLISHED PREVIOUSLY, NEW SOPS WILL BE ISSUED DEPENDING UPON NEW PERSONNEL	RUSS BARTON 2017

Annual Report Requirements:

- List of outfalls inspected during dry weather screening **0**
- Updated Map with the new outfalls that have been mapped and any potential illicit discharges, along with any changes to the MS4 Urbanized Area **NO NEW UPDATES**
- Link to the Stormwater Phase II Ordinance that encompasses the IDDE Regulations
https://www.municode.com/library/al/tuscaloosa/codes/code_of_ordinances?nodeId=CO_CH21STSI_ART IXSTPHII
- # of Illicit Discharges investigated, screening results, and summary of the actions taken to include dates reported/found, and timetables of response and corrective action **0 OTHER THAN PRIVATE SSOs**

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

The City of Tuscaloosa will develop/revise, implement and enforce an ongoing program to reduce, to the maximum extent practicable, the pollutants in any stormwater runoff to the MS4 from construction sites

IMPLEMENTATION SCHEDULE

BMP	DESCRIPTION	PROGRESS	RESPONSIBLE PARTY / SCHEDULE
STORMWATER PHASE II ORDINANCE	ORDINANCE REQUIRING EROSION & SEDIMENT CONTROLS & SANCTIONS TO ENSURE COMPLIANCE	ESCALATING ENFORCEMENT PROCEDURES HAVE BEEN ESTABLISHED	JOSH YATES ACTIVE
LAND DEVELOPMENT PERMIT	PERMIT REQUIRED FOR ALL CONSTRUCTION OTHER THAN SINGLE-FAMILY HOME CONSTRUCTION	CONTINUOUS	BRYAN GURNEY / JEREMY JONES ACTIVE
QCI TRAINING	INSPECTORS INVOLVED IN THE INSPECTION PROCESS WILL BE QCI CERTIFIED AND TRAINED TO HANDLE BMP FAILURES BY FOLLOWING THE ESCALATING ENFORCEMENT PROCEDURE	3 NEWLY TRAINED IN 2016-2017	CHRIS CASEY ACTIVE
SITE INSPECTION	REQUIRE MONTHLY INSPECTION OF ACTIVE CONSTRUCTION SITES. DOCUMENT ACCORDING TO THE INSPECTION PROTOCOL AND FOLLOW THE ESCALATING ENFORCEMENT PROCEDURE	REPORTS ARE ON FILE AND ACCESSIBLE FOR REVIEW IF NEEDED	CHRIS CASEY 2017

WEBSITE	AVAILABLE TO REPORT COMPLAINTS REGARDING DISCHARGES FROM CONSTRUCTION SITES	ONGOING	JOSH YATES ACTIVE
ENFORCEMENT STRATEGY AND TRACKING SYSTEM	ADOPTED ENFORCEMENT STRATEGY WITH ESCALATING REMEDIES AND ESTABLISH RECORDKEEPING SYSTEM	CONTINUOUS	CHRIS CASEY 2017
BUILDING CODE	REQUIREMENTS ARE OUTLINED FOR WASTE CONTROL AND SEPTIC SYSTEMS AT CONSTRUCTION SITES	CONTINUOUS	ALAN BOSWELL ACTIVE

Annual Report Requirements:

- Any completed or planned revisions to the site inspection procedures, review process, or escalating enforcement procedures associated with construction site stormwater runoff control. **NONE**
- List of all active construction sites within the MS4 to include the following summary:
 - Number of construction site inspections **138**
 - Number of non-compliant construction site referrals and/or enforcement actions and description of violations **13**
 - Number of construction site runoff complaints received **11**
 - Number of MS4 staff/inspectors trained **6**
- The City must keep records of all inspections and employees trained **KEPT**

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

The City of Tuscaloosa will develop/revise, implement, and enforce a program to address storm water runoff from qualifying new development and redevelopment projects, to the maximum extent practicable. This program shall ensure that controls are in place to prevent or minimize water quality impacts. Post-construction storm water management refers to the activities that take place after construction occurs, and includes structural and non-structural controls including low-impact development and green infrastructure practices to obtain permanent storm water management over the life of the property's use. These post construction controls should be considered during the initial site development planning phase.

IMPLEMENTATION SCHEDULE

BMP	DESCRIPTION	PROGRESS	RESPONSIBLE PARTY / SCHEDULE
LANDSCAPE ORDINANCE	ORDINANCE THAT REQUIRES STORMWATER INLETS TO BE LOCATED IN LANDSCAPE ISLANDS AND/OR INCORPORATED INTO RAIN GARDENS, BIOSWALES, ETC.	ONGOING	BRYAN GURNEY / JEREMY JONES ACTIVE
LAND DEVELOPMENT PERMIT	PERMIT REQUIRED FOR ALL CONSTRUCTION OTHER THAN SINGLE-FAMILY HOME CONSTRUCTION	ONGOING	BRYAN GURNEY / JEREMY JONES ACTIVE
STORMWATER PHASE II ORDINANCE	DESIGN REQUIREMENTS: REDUCE THE DISCHARGE OF POLLUTANTS TO THE MS4 TO THE MAXIMUM EXTENT PRACTICABLE TO PROTECT WATER QUALITY AND SATISFY APPROPRIATE WATER QUALITY REQUIREMENTS OF THE CWA	ONGOING	BRYAN GURNEY / JEREMY JONES ACTIVE

<p>CERTIFICATE OF OCCUPANCY</p>	<p>PROCEDURE AND PROCESS TO DEMONSTRATE AND DOCUMENT THAT POST-CONSTRUCTION STORM WATER MEASURES HAVE BEEN DESIGNED PER DESIGN SPECIFICATIONS</p>	<p>ONGOING</p>	<p>KEVIN TURNER ACTIVE</p>
<p>LOW-IMPACT DEVELOPMENT DATABASE</p>	<p>CREATE AND MAINTAIN A DATABASE OF NEWLY DEVELOPED AND REDEVELOPED LOCAL SITES THAT INCORPORATE LID TECHNIQUES</p>	<p>ONGOING</p>	<p>KEVIN TURNER ACTIVE</p>

Annual Report Requirements:

- Copies of the Stormwater Phase II Ordinance and governing regulatory mechanisms that are associated with post-construction stormwater management
https://www.municode.com/library/al/tuscaloosa/codes/code_of_ordinances?nodeId=CO_CH21STSI_ARTIXSTPHII
- List of the post-construction structural controls installed and inspected throughout the permit year [SEE LID ELEMENTS SPREADSHEET](#)
- Updated inventory of post-construction structural controls including those owned by the City **NONE**
- Number of inspections performed on post-construction structural controls **NONE**
- Summary of enforcement actions **NONE**

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

The City of Tuscaloosa shall develop, implement, and maintain a program that will prevent or reduce the discharge of pollutants in storm water runoff from municipal operations to the maximum extent practicable.

IMPLEMENTATION SCHEDULE

BMP	DESCRIPTION	PROGRESS	RESPONSIBLE PARTY / SCHEDULE
INVENTORY OF MUNICIPAL OPERATIONS	IDENTIFY AND INVENTORY ALL MUNICIPAL OPERATIONS THAT DISCHARGE TO THE MS4	INVENTORY ESTABLISHED, MORE TO ADD	JOSH YATES ACTIVE
LAND DEVELOPMENT PERMIT	PERMIT REQUIRED FOR ALL CONSTRUCTION OTHER THAN SINGLE-FAMILY HOME CONSTRUCTION	CONTINUOUS	BRYAN GURNEY / JEREMY JONES ACTIVE
RAINFALL DATA NETWORK	ESTABLISH NETWORK OF PERMANENT WEATHER STATIONS TO COLLECT AND DISSEMINATE RAINFALL DATA	ONGOING. TAPPED INTO ALDOT RAIN GUAGES AS WELL	JOSH YATES ACTIVE
POLLUTION PREVENTION PROGRAM	CREATE AND ADOPT STANDARD OPERATING PROCEDURES (SOPS) FOR MUNICIPAL OPERATIONS AS REQUIRED TO REDUCE POLLUTANT DISCHARGES	CONTINUOUS AS PROCESSES CHANGE	JOSH YATES ACTIVE PROCESS
STREET SWEEPING PROGRAM	DOCUMENT THE OPERATION OF AND RESULTS FROM EXISTING STREET SWEEPING EFFORTS	ONGOING	SELVIN GREENE ACTIVE

Annual Report Requirements:

- Updates to the Municipal Inventory **NONE**
- Estimated amount of floatable material collected from the MS4 **8,000 TONS ANNUALLY**
- Updates to the inspection plan **NONE**
- Number of inspections conducted **NONE**
- Updates to the SOPs created for good housekeeping practices **NONE**
- Records of inspections and corrective actions **N/A**
- Training records for various personnel on good housekeeping practices **NONE**

CERTIFICATION

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

RESPONSIBLE PARTIES

- JOSH YATES – WATERSHED MANAGER – (205)248-5387 – JDYATES@TUSCALOOSA.COM
- BRYAN GURNEY – CIVIL ENGINEER – (205)248-5383 – BGURNEY@TUSCALOOSA.COM
- JEREMY JONES – CIVIL ENGINEER – (205)248-5397 – JJONES2@TUSCALOOSA.COM
- ASHLEY CHAMBERS – ENVIRONMENTAL EDUCATOR – (205)248-4910 – ACHAMBERS@TUSCALOOSA.COM
- RUSS BARTON – DIRECTOR OF LOGISTICS AND ASSET MANAGEMENT – (205)248-5256 – RBARTON@TUSCALOOSA.COM
- SELVIN GREENE – DIRECTOR OF INFRASTRUCTURE – (205)248-5807 – SGREENE@TUSCALOOSA.COM
- CHRIS CASEY – CONSTRUCTION MANAGER – (205)248-5386 – CCASEY@TUSCALOOSA.COM
- ALAN BOSWELL – CHIEF BUILDING OFFICIAL – (205)248-5114 – ABOSWELL@TUSCALOOSA.COM
- KEVIN TURNER – ASSISTANT CONSTRUCTION MANAGER – (205)248-5388 – KTURNER@TUSCALOOSA.COM