

City of Muscle Shoals

Annual Report

General Permit for Phase II

Small Municipal Separate Storm Sewer Systems (MS4)

NPDES Permit No. ALR040016

March 31, 2016

Submitted By:



David H. Bradford, Mayor

Prepared for the City of Muscle Shoals

By: Civil Group, LLC



Bradley N. Williams P.E.



**City of Muscle Shoals, Alabama**  
**NPDES Phase II Annual Report**  
**Permit No. ALR040016**  
**March 31, 2016**

This report documents the activity related to each of the 6 Minimum Control Measures, including the BMP and rational statement, as required by the City of Muscle Shoals NPDES Stormwater (MS4) Permit.

The Appendix includes documentation of the action items for BMP efforts made by the City to comply with the permit and the SWMP.

**I. Public Education and Outreach**

- a. BMP No. 1 – Mail out flyers to homes and businesses two times per year.

Problems Addressed: The main source of pollution addressed by public education and outreach is trash, litter, soil disturbances, chemicals, and individual oil changes.

Rational for BMP: The problems addressed by this BMP are most common to residences and businesses in this area. Correcting these problems will go a long way toward cleaning up the waters in this area. The published information reaches a large segment of the population by placing billboards and signs at strategic locations and coordinating with “Keep the Shoals Beautiful”, the Chamber of Commerce and Civic Organizations.

Activities:

1. **Ongoing** – In previous years, ordinances have been adopted which encourage the limited use of fertilize, pesticides and herbicides within the city. Also trash pick up has become an annual event whereby citizens are encouraged to participate in clean-up activities. Records are kept and reported each year as to the total poundage of litter retrieved and disposed of at the landfill. A large tonnage of debris is also removed from detention basins each year.

2. **2015/2016 Activities:**

Shoals Solid Waste Authority (SSWA) – This organization is supported by the City with funding and drop off locations. Special projects included:

- Mentioned in new articles in the local newspaper (Times Daily).
- Helped sponsor community events. Also provided recycling Services for these events and distributed literature and materials related to recycling: (See Appendix for brochure.)
  - Saddle Up for St. Jude

- Wild Game Cook-Off
- TVAA events & programs
- Keep the Shoals Beautiful events and programs
- W.C Handy Festival Events (In Harmony with Nature)
- NWSCC BEST Robotics
- Shoals Earth Month Festival
- Helen Keller Festival
- PALS litter program/Recycling
- Big Brother Big Sister Events
- NWSCC Fishing Tournament Event
- PFTFS Events/Litter cleanups
- Recycling provided at most Muscle Shoals City Schools
- MSHS Football games

“Keep the Shoals Beautiful” (KTSB) – This organization is supported by the City with annual financial support for public education. Special projects included:

- Provided billboard advertising on Avalon Avenue encouraging citizens to not litter and keep the Shoals area clean.

Signs: The City currently maintains approximately 40 “Shoaly” signs throughout the City that remind people to keep the Shoals clean.

Litter Collection: Approximately 892 bags @ 56 gallons per bag of debris and trash were removed from the inlets and catch basins around the City. Once a year, the Buena Vista Retention Pond is cleaned out and for this reporting period approximately 38,000 pounds of trash, debris and silt were removed and hauled to the landfill (See Appendix for letter from Storm Drainage Maintenance Supervisor).

b. BMP No. 2 – Run-off Reduction/Permeable Pavement

Problems Addressed: The main source of pollution addressed by this BMP is soil erosion during construction.

Rationale for BMP: The majority of soil erosion and introduction of silt into the stormwater system is due to construction activities which disturb the soil. By placing restrictions of this BMP on contractors and developers, soil erosion will be controlled and the waters will be kept cleaner. Requirements are outlined in the subdivision regulations and the SWMP.

Activities:

1. **Ongoing** – Regulations and ordinances now dictate that contractors and developers will adhere to the rules which have been adopted to control erosion. The City requires engineers to provide monthly inspection reports to the City for review. The City’s staff also provides inspection and enforcement of the rules. BMP for each project exceeding 1 acre is required and is reviewed by the City Review office. Permits are issued for excavation prior to any soil disturbance.
  2. **2015/2016 Activities:** The frequency of action is continual. Each construction project is reviewed for compliance with the city regulations.
- c. BMP No. 3 – Site Protection – Increased Vegetation and Green Areas

Problems Addressed: The main source of pollution addressed by this BMP is soil erosion and quality of stormwater runoff.

Rationale for BMP: By increasing the amount of vegetative cover and green areas in land development, the amount of stormwater runoff and soil erosion will be reduced. Greenway areas allow for stormwater infiltration into the ground and keep it out of the stormwater system. Vegetative cover also acts as permanent stabilization of the soil and reduces the amount of soil erosion and siltation into the stormwater system.

Activities:

1. **Ongoing** – Regulations and ordinances now dictate that developers will adhere to the specific design requirements related to lot/layout design and drainage and storm sewer design. Subdivision regulations also call for a sediment and erosion control plan to be submitted by the developer of a proposed development for review by the City Engineer and City Planning Commission.
2. **2015/2016 Activities:** The frequency of action is continual. Every new development design is reviewed for compliance with the city regulations.

## II. **Public Involvement and Participation**

- a. BMP No. 1 – Public Hearing for Public Involvement at least every other year.

Problems Addressed: The problem addressed in this BMP is associated mainly with littering by the public and the general disregard for erosion and pollution problems.

Rationale for BMP: The rationale for this BMP is that as more citizens are involved in the decision making process and in clean up activities the more they will be aware of the problems related to litter and erosion. Public involvement and participation helps to increase general awareness and concern over these issues. These activities also involve environmentally concerned individuals and help get citizens involved in reporting violations to be enforced by city officials.

Activities:

1. **Ongoing** – Citizens are encouraged to clean up their areas and to stop littering. Litter fines are levied to encourage compliance to ordinances and regulations. Citizens are encouraged to notify city officials of littering and erosion issues. An “Action Center” link can be found on the City’s website to facilitate the public reporting of issues discovered and expedite a response by the City.

2. **2015/2016 Activities:**

Shoals Solid Waste Authority (SSWA) – Supported by the City with funding and drop off locations. Special projects included:

- Ran radio advertisements on local FM station.
- Distributed brochures and other materials to the general public on recycling at several public events in the area throughout the year. Also provided recycle bins during community events (See I.2 above for list of events).

“Keep the Shoals Beautiful” (KTSB) – Supported by the City with annual financial support. Special public involvement projects included:

- Sponsored city-wide clean-up events.
- Assisted Shoals Solid Waste Authority (SSWA) with recycling and litter prevention display during community events.

Earth Month Proclamation: During a regular meeting of the City Council on April 6, 2015 Mayor David Bradford read aloud a proclamation declaring April 2015 as “Earth Month” in the City.

b. BMP No. 2 – Stenciling at Stormwater Inlets

Problems Addressed: The problem addressed in this BMP is associated mainly with illicit dumping by the general public into stormwater system inlets.

Rationale for BMP: The rationale for this BMP is to make citizens aware that whatever enters a stormwater inlet may eventually enter our rivers and streams. This awareness should reduce the amount of illicit discharges by the general public.

Activities:

**Ongoing** – The City’s Construction Specifications require that storm sewer inlets have stenciled on the top cover the words “Storm Sewer” as identification. Contractors are referred to these specifications and inspections are performed to insure compliance.

c. BMP No. 3 – Art Contest at Elementary Schools

Problems Addressed: The problem addressed in this BMP is associated mainly with littering and the general disregard for pollution problems.

Rationale for BMP: The rationale for this BMP is that good habits are best learned at a young age. If our children can be involved in litter prevention and become aware of the issues related to pollution, they will be more proactive as adults.

Activities:

**2015/2016 Activities:**

“Keep the Shoals Beautiful” (KTSB) – This organization is supported by the City with annual financial support. Special projects focusing on elementary schools include.

- “Steve Trash Litter Prevention Challenge” – Challenged students in elementary schools to maintain an environmentally friendly campus with litter prevention and recycling programs. A trophy was awarded to the winning school during Earth Month in April 2015
- “Keep the Shoals Beautiful Scholarship” – This scholarship was established to encourage volunteer activity that supports a cleaner environment. The cash scholarship is awarded to one high school student and one college student in the Shoals who has demonstrated initiative and participation in community service projects that promote a clean environment (See Appendix for information).

**III. Illicit Discharge Detection & Elimination**

a. BMP No. 1 – Enforcement Personnel to Re-certify QCI

Problems Addressed: The problem addressed with this BMP is the lack of training regarding the effects of illicit discharges, proper BMP measures and the lack of enforcement of City ordinances.

Rationale for BMP: The rationale for this BMP is that an enforcement process is necessary to work toward eliminating the problem associated with illicit discharges. City officials will be informed and trained regarding the hazards associated with illicit discharges and proper BMP measures.

Activities:

1. **Ongoing** – All ordinance requirements related to illicit discharges were completed prior to 2010. Mr. Tandy Crosswhite with the City of Muscle Shoals is responsible for BMP review and code enforcement.

2. **2015/2016 Activities:** Four City employees received QCI training. These employees work in either the building department or the public works department.

b. BMP No. 2 – Site Inspections – Industrial, Commercial, Construction Sites

Problems Addressed: The problem addressed with this BMP is the illicit discharge by industrial, commercial sites and construction sites into the City stormwater system.

Rationale for BMP: The rationale for the BMP is that an inspection process is necessary to identify illicit discharges and enable the City of enforce the ordinances related to such discharges.

Activities:

1. **Ongoing** – Inspection of industrial, commercial and construction sites are ongoing. The City may use consultants with QCI trained personnel and QCP personnel or conduct their own inspections. Mr. Tandy Crosswhite with the City of Muscle Shoals receives copies of all inspection reports and keeps with on file.
2. **2015/2016 Activities:** Monthly site inspections were performed on active construction sites. A report of each inspection specifying any BMP deficiencies to be corrected was submitted to the permit holder as well as the City.

c. BMP No. 3 – Stormwater Runoff Sampling and Testing – Once per Year

Problems Addressed: The problem addressed with this BMP is stream contamination caused by illicit discharges.

Rationale for BMP: The rationale for this BMP is that sampling and testing stormwater at the known outfalls of the City’s stormwater system will help to identify issues for further inspection and enforcement can take place.

Activities:

1. **Ongoing** – There were no changes to the City’s stormwater maps in 2015/2016.
2. **2015/2016 Activities:** Stormwater sampling and testing was performed on twelve locations by Southern Environmental Testing, Inc. The sampling was performed on 12/14/2015. Samples were tested for oil & grease, pH, and total suspended solids (TSS) (See Appendix for copies of test results).

IV. **Construction Site Stormwater Runoff Control**

a. BMP No. 1 – All Construction Sites Permitted by City and ADEM

Problems Addressed: The problem addressed with this BMP is the runoff of silt and other

illicit discharges into the City stormwater system from construction sites.

Rationale for BMP: The rationale for this BMP is that by requiring contractors to follow the permitting process for stormwater runoff, they will be given the proper BMP measures to follow to minimize erosion and illicit discharges. These permits also include regular inspections that will hold them accountable to the permit requirements.

Activities:

1. **Ongoing** – The City provides erosion and sediment controls at construction sites through subdivision regulations and ordinances. These are enforceable by City officials and also apply to non-subdivision type construction projects. Mr. Tandy Crosswhite with the City of Muscle Shoals is responsible for reviewing all inspection reports, keeping a copy on file and enforcing all related ordinances and regulations.
2. **2015/2016 Activities:** All construction sites were permitted and inspected.

b. BMP No. 2 – Follow Up on Inspections If Required

Problems Addressed: The problem addressed with this BMP is the lack of concern by the holder of the stormwater permit to address deficiencies noted in the inspection reports.

Rationale for BMP: The rationale for the BMP is that an enforcement process is necessary to ensure compliance with the permitting requirements.

Activities:

1. **Ongoing** – Follow up inspections of permitted construction sites is an ongoing activity by the City Building Department. Copies of inspection reports outlining any problems or deficiencies are sent to Mr. Tandy Crosswhite with the City of Muscle Shoals. A trained and certified QCI or QCP with the City will follow up on any inspection with violations reported. Copies of the inspection reports will be kept on file.
2. **2015/2016 Activities:** No information was submitted as to the number of inspections performed and/or the number of violations found.

c. BMP No. 3 – Construction Stormwater Runoff Sampling and Testing

Problems Addressed: The problem addressed with this BMP is stream contamination caused by erosion of silt and/or illicit discharges.

Rationale for BMP: The rationale for the BMP is that sampling and testing stormwater runoff from construction sites will insure the contractor's compliance with BMP measures and determine if additional measures need to be put in place.

Activities:

1. **2015/2016 Activities:** No information was submitted as to the number of inspections performed and/or the number of violations found.

V. **Post Construction Stormwater Management in New Development and Re-Development**

a. **BMP No. 1 – All Construction Sites Secured with Vegetation and Run-off Control**

Problems Addressed: The problem addressed with this BMP is soil erosion and sedimentation due to construction sites that are completed but without complete soil stabilization.

Rationale for BMP: The rationale for this BMP is it will ensure the continuation of sediment and erosion control measures until permanent stabilization is achieved by requiring owners to provide a bond to cover the cost of replacing or establishing such measures.

Activities:

1. **Ongoing**– The City addresses this requirement with its subdivision regulations for construction plans and final plat approval as well as other ordinances. Mr. Tandy Crosswhite with the City of Muscle Shoals is responsible for overseeing and enforcing all related ordinances and regulations.
2. **2015/2016 Activities:** No information was submitted as to the number of bonds required or the number of inspection performed by City personnel.

b. **BMP No. 2 – Post Construction Maintenance Agreements**

Problems Addressed: The problem addressed for this BMP is that once some developments are completed, the site is not maintained for sediment and erosion control.

Rationale for BMP: The rationale for the BMP is it will ensure the long term operation and maintenance of sediment and erosion control measures by requiring owners to sign an agreement to be recorded with the property deed or plat that transfers to any new owner or operator the responsibility for post-construction management.

Activities:

1. **Ongoing**– This requirement is monitored with existing ordinances and regulations.
2. **2015/2016 Activities:** No information was submitted as to the number of agreements filed during the report year.

VI. **Pollution Prevention/Good Housekeeping for Municipal Operations**

a. BMP No. 1 – Personnel Training

Problems Addressed: The problem addressed with this BMP is City personnel not adequately trained and aware of BMP requirements and the effects of pollution.

Rationale for BMP: The rationale for this BMP is that many of the City personnel are in a position to prevent pollution and erosion or at least observe the activities of others. By adequately training them in proper BMP requirements, it will help to ensure good housekeeping practices and pollution prevention through personal practice or notification of observed violations.

Activities:

1. **Ongoing**– The City has provided in-house education for its maintenance personnel and will continue these programs in the future. City employees who have received their QCI certification continue to complete refresher courses each year.
2. **2015/2016 Activities:** Four City employees completed the necessary training to retain their QCI certification.

b. BMP No. 2 – Fleet Maintenance Operations – Enclosed Facility

Problems Addressed: The problem addressed with this BMP is the polluted runoff that occurs when City owned vehicles and equipment are maintained outside in an uncontrolled area.

Rationale for BMP: The rationale for the BMP is it will provide a way to separate pollutants such as oil, grease and sediment from maintenance and washing operations from runoff before entering the storm sewer system.

Activities:

1. **Ongoing**– The City of Muscle Shoals Public Works Department uses an enclosed facility to wash and maintain its vehicles. The wash facility utilizes a large separation tank designed to intercept any debris, sediment, oil and grease before discharging into the sanitary sewer system. Also, their hot tar storage facility has a retention structure built around it to collect any spills or leaks and prevent runoff.
2. **2015/2016 Activities:** The City continues to operate the facility as designed.

During 2016/2017, the City plans to implement the following general BMP's.

A. Public Education and Outreach

1. Continue support of SSWA and KTSB organizations and their events related to public education and advertising in local newspapers and billboards.

2. Continue to maintain an adequate number of “Shoaly” signs to remind people to keep the Shoals clean.
3. Distribute literature at public events.

B. Public Involvement/Participation

1. Continue to work with SSWA and KTSB with their events related to involving individuals and schools in pollution prevention.
2. Provide a website where public is encouraged to support a clean environment.
3. Continue to maintain the Action Center on the City’s website where citizens can notify officials of litter incidences. Mr. Butch Whitehead with the City of Muscle Shoals will continue to investigate these complaints.
4. Support April as “Earth Month” in Muscle Shoals.
5. Host a city wide clean up day.
6. Provide litter bags to citizens at city functions.
7. Continue to use inmates from the city jail to pick up trash.
8. Continue to conduct presentations in local schools.

C. Illicit Discharge Detention and Elimination

1. Inspections by City personnel or its designee once each month.
2. Stormwater runoff samples once each year.

D. Construction Site Stormwater Runoff Control

1. Continue to require stormwater permits for all construction sites.
2. Continue making periodic visits to construction sites giving priority to those under violation of the permit.

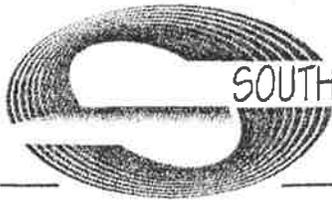
E. Post Construction Stormwater Management in New and Redevelopment

1. Continue requiring bonding on developments before final plat approval.
2. Continue requiring maintenance agreements.

F. Pollution Prevention/Good Housekeeping

1. Instruction for city personnel once per year.
2. Continue to identify certain City officials to be in charge of BMP requirements for various departments.
3. Personnel to attend QCI training course annually.
4. Continue operation and maintenance of fleet maintenance facility.

## Illicit Discharge Monitoring



# SOUTHERN ENVIRONMENTAL TESTING

P.O. Box 487  
3103 Northington Court  
Florence, Alabama 35630

(256) 740-5532  
Fax (256) 740-5529

## LOG-IN CHECKLIST

Rev 150223

Cooler Received/Opened: 12/14/15 0958 Lab No: 1502842-2851

Courier:  SET  FedEx  UPS  USPS  Customer  Other  Drop box

Thermometer Used:  Fisher IR 61857065  Other \_\_\_\_\_

1. Were custody seals on outside of cooler? YES...  NO... NA
2. Were the seals intact, signed, and dated correctly? YES... NO...  NA
3. Temperature of rep. sample or temp. blank when opened: 2.7 °C (should be above freezing to 6°C)
4. If Item #3 temp is 0°C or less, was there evidence of freezing.)? YES... NO...  NA
5. Was there a Chain-Of-Custody form?  YES... NO... NA

I certify that I opened the cooler and answered questions 1-5 (initial) JK

6. Were custody seals on containers? YES...  NO... NA
7. Were these seals signed and dated correctly? YES... NO...  NA
8. Packing material used?  Bubblewrap  Peanuts  Vermiculite  Foam  Paper  Other  None
9. Cooling process?  Ice  Ice-pack  Dry ice  Other  None
10. Did all containers arrive in good condition (unbroken)?  YES... NO... NA
11. Were all container labels complete (#, date, analysis, pres, etc.)?  YES... NO... NA
12. Did all container labels agree with C-O-C?  YES... NO... NA
13. a. Were VOA vials received? YES...  NO... NA
- b. Was observable headspace present? YES... NO...  NA
14. Was there a Trip Blank in this cooler? YES...  NO... NA

I certify that I unloaded the cooler and answered questions 6-14 (initial) JK

15. a. On preserved bottles, did pH test strips indicate correct pH level reached?  YES... NO... NA
- b. If NO, was preservative added? YES... NO... Record lot no. added: HNO3 \_\_\_\_\_  H2SO
- c. Did the bottle label indicate correct preservative was used?  YES... NO... NA
16. Was residual chlorine (TRC) present? YES...  NO... NA

I certify that I checked TRC and pH per SOPs and answered questions 15-16 (initial) JK

17. Was the C-O-C properly filled out (ink, signed, etc.)?  YES... NO... NA
18. Did you sign the custody papers in the received by lab area?  YES... NO... NA
19. Correct containers used for analysis requested?  YES... NO... NA
20. Sufficient amount of sample received?  YES... NO... NA
21. All samples arrive within method holding time?  YES... NO... NA

I certify that I entered this project in the LIMS and answered questions 17-21 (initial) JK

I certify that I attached a label with the unique LIMS number to each container (initial) JK

22. Were there Non-Conformance issues at login? YES...  NO... Note action taken:



# SOUTHERN ENVIRONMENTAL TESTING, INC.

3103 Northington Court  
Florence, AL 35630

Ph: (256)740-5532  
Fax: (256)740-5529

## CHAIN-OF-CUSTODY RECORD

ANALYSIS REQUESTED

REFERRING CLIENT: <div style="font-size: 2em; font-family: cursive;">Civil Group</div>		PROJECT NAME: City of Muscle Shoals Stormwater		PROJECT #: _____						
SAMPLE SITE: Muscle Shoals		REQUESTOR: _____		P.O. # _____						
SAMPLED BY: E. Curtis		SPECIAL INSTRUCTIONS: <input type="checkbox"/> NORMAL <input type="checkbox"/> RUSH								
LAB USE ONLY SAMPLE #	SAMPLE IDENTIFICATION	DATE	SAMPLE TYPE	SAMPLE TIME	CONTAINER TYPE	# OF CONTAINERS	SAMPLE PRESERVATION	O&G	TSS	PH
1502842-01	Avalon East Ind. Park	12/14/2015	SW	0:30	G	1	H2SO4	X		6.41
-02	Avalon East Ind. Park	12/14/2015	SW	0:30	P	1	NONE		X	
1502843-01	Buena Vista SE	12/14/2015	SW	0:40	G	1	H2SO4	X		5.32
-02	Buena Vista SE	12/14/2015	SW	0:40	P	1	NONE		X	
1502844-01	Buena Vista SW	12/14/2015	SW	0:45	G	1	H2SO4	X		7.42
-02	Buena Vista SW	12/14/2015	SW	0:45	P	1	NONE		X	
1502845-01	Buena Vista NE	12/14/2015	SW	0:50	G	1	H2SO4	X		7.20
-02	Buena Vista NE	12/14/2015	SW	0:50	P	1	NONE		X	
1502846-01	Buena Vista NW	12/14/2015	SW	0:35	G	1	H2SO4	X		7.20
-02	Buena Vista NW	12/14/2015	SW	0:35	P	1	NONE		X	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RECEIVED FOR LAB BY:	DATE	TIME		
	12/14/15	0958					12/14/15	0958		
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	COMMENTS:				
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME					
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME					



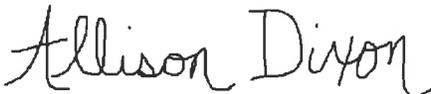
**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502847
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:55	Date Reported:	12/21/2015
Client Sample ID:	Portage Pond		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 6.55 su

Report Approved By:   
Allison Dixon

**~METHOD REFERENCES~**

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502847
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:55	Date Reported:	12/21/2015
Client Sample ID:	Portage Pond		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	49.0		mg/L	1	12/16/15 16:05	2540D (2)	KMS

pH (field) = 6.55 su

Report Approved By:

Allison Dixon

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Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502845
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:50	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista NE		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 7.20 su

Report Approved By: Allison Dixon  
Allison Dixon

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TEST RESULTS

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Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502845
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:50	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista NE		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	80.0		mg/L	1	12/16/15 15:40	2540D (2)	KMS

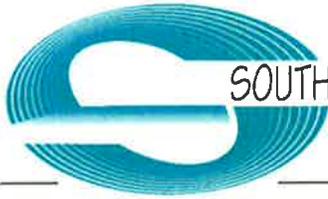
pH (field) = 7.20 su

Report Approved By:

Allison Dixon

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**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502844
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 0:50
Date/Time Collected:	12/14/15 0:45	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista SW		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 7.42 su

Report Approved By: Allison Dixon  
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502844
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 0:50
Date/Time Collected:	12/14/15 0:45	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista SW		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	63.0		mg/L	1	12/16/15 15:40	2540D (2)	KMS

pH (field) = 7.42 su

Report Approved By: Allison Dixon  
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502842
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:30	Date Reported:	12/21/2015
Client Sample ID:	Avalon East Ind Park		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	5.95		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 6.41 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502842
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:30	Date Reported:	12/21/2015
Client Sample ID:	Avalon East Ind Park		

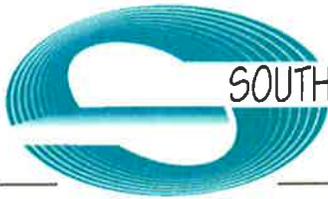
Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	147		mg/L	1	12/16/15 15:40	2540D (2)	KMS

pH (field) = 6.41 su

Report Approved By: Allison Dixon  
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502851
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:20	Date Reported:	12/21/2015
Client Sample ID:	Shoals City East		

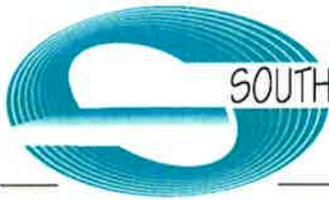
Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	12.6		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 7.02 su

Report Approved By:   
Allison Dixon

**~METHOD REFERENCES~**

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994.
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502851
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:20	Date Reported:	12/21/2015
Client Sample ID:	Shoals City East		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	47.0		mg/L	1	12/16/15 16:05	2540D (2)	KMS

pH (field) = 7.02 su

Report Approved By: Allison Dixon  
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



P.O. Box 487  
3103 Northington Court  
Florence, Alabama 35630

(256) 740-5532  
Fax (256) 740-5529

## TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502849
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:10	Date Reported:	12/21/2015
Client Sample ID:	Brown St. Pond		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) =6.90 su

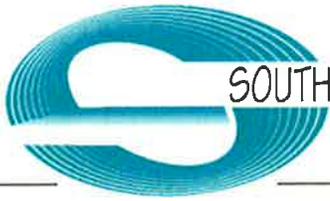
Report Approved By:

A handwritten signature in black ink that reads 'Allison Dixon'. The signature is written in a cursive style with a large, prominent 'A'.

Allison Dixon

### ~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502849
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:10	Date Reported:	12/21/2015
Client Sample ID:	Brown St. Pond		

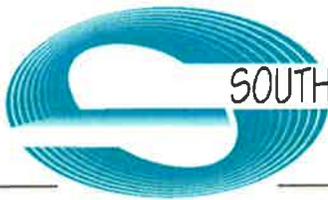
Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	<1.00		mg/L	I	12/16/15 16:05	2540D (2)	KMS

pH (field) =6.90 su

Report Approved By:   
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502843
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:40	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista SE		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 5.32 su

Report Approved By: Allison Dixon  
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



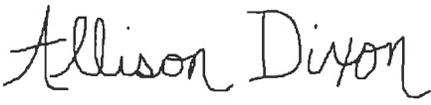
TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502843
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:40	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista SE		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	46.0		mg/L	I	12/16/15 15:40	2540D (2)	KMS

pH (field) = 5.32 su

Report Approved By:   
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502848
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:00	Date Reported:	12/21/2015
Client Sample ID:	Street Dept. Outfall		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 7.15 su

Report Approved By: Allison Dixon  
Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502848
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:00	Date Reported:	12/21/2015
Client Sample ID:	Street Dept. Outfall		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	147		mg/L	1	12/16/15 16:05	2540D (2)	KMS

pH (field) = 7.15 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



**TEST RESULTS**

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project: City of Muscle Shoals SW  
Project Number:  
Sample Location: Muscle Shoals, AL  
Sampled By: E. Curtis  
Date/Time Collected: 12/14/15 1:15  
Client Sample ID: Shoals Research Air Park

Lab Number: 1502850  
Sample Number: 001  
Sample Type: Stormwater  
Date Received: 12/14/15 9:58  
Date Reported: 12/21/2015

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

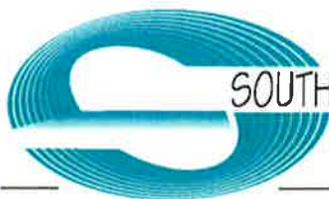
pH (field) =6.60 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995.



TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502850
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 1:15	Date Reported:	12/21/2015
Client Sample ID:	Shoals Research Air Park		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	<1.00		mg/L	1	12/16/15 16:05	2540D (2)	KMS

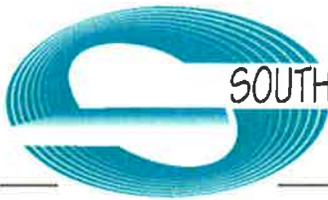
pH (field) =6.60 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992.
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502846
Project Number:		Sample Number:	001
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:35	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista NW		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Oil and Grease	<5.00		mg/L	5	12/18/15 9:30	1664A (1)	DRK

pH (field) = 7.20 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995



TEST RESULTS

Brad Williams  
Civil Group  
919 East Avalon Avenue, Suite B  
Muscle Shoals, AL 35661

Project:	City of Muscle Shoals SW	Lab Number:	1502846
Project Number:		Sample Number:	002
Sample Location:	Muscle Shoals, AL	Sample Type:	Stormwater
Sampled By:	E. Curtis	Date Received:	12/14/15 9:58
Date/Time Collected:	12/14/15 0:35	Date Reported:	12/21/2015
Client Sample ID:	Buena Vista NW		

Parameter	Result	Qual	Units	Report Limit	Date	Method	Analyst
Solids, Total Suspended	57.0		mg/L	1	12/16/15 16:05	2540D (2)	KMS

pH (field) = 7.20 su

Report Approved By:

Allison Dixon

~METHOD REFERENCES~

- (1) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1993, August 1993, May 1994
- (2) Standard Methods for the Examination of Water and Waste Water, 18th Edition, 1992
- (3) Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Update IV December 1996
- (4) HACH Handbook of Water Analysis, HACH Chemical Company, 1979
- (5) Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July, 1991, August 1995

## Public Outreach

*Office of the Mayor*

**Muscle Shoals, Alabama**

# Proclamation



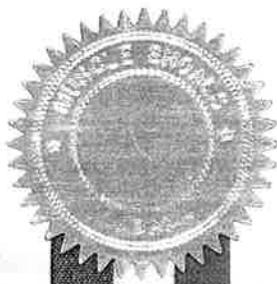
WHEREAS, all citizens of the Earth depend on the health of the planet to sustain life and all human endeavor; and

WHEREAS, more education is needed, as well as understanding of the important connections between human survival, natural systems and the diverse web of biological life; and

WHEREAS, the celebration of Earth Day, April 22, is a global reminder that the human family must assume responsible stewardship of the Earth and all its natural resources for future generations as well as to perpetuate life of all species and sustain healthy, viable communities; and

WHEREAS, the entire month of April is offering enriching and entertaining family events throughout the Shoals area which heighten ecological awareness.

NOW, THEREFORE, I, David Bradford, Mayor of the City of Muscle Shoals, Alabama, do hereby proclaim April 2015, as **EARTH MONTH** in the City. I further encourage our citizens to enjoy the natural and cultural resources of our city and to do their part toward cleaning it up and beautifying it.



*In witness whereof I have hereunto set my hand and caused this seal to be affixed.*

*David Bradford* Mayor

ATTEST: *Robert D. Little* City Clerk

DATE: April 6, 2015



# AWARD OF DISTINCTION 2014-2015

Presented to Honor

Mayor David Bradford  
City Of Muscle Shoals

In appreciation and recognition for outstanding contribution in the fight against  
litter, promotion of efficient waste management and beautification of our  
community.

Presented by Keep The Shoals Beautiful and the Shoals Chamber of Commerce.  
Given this 6th day of April, 2015

  
Rachel Mansell, Chairperson  
Keep The Shoals Beautiful

  
Stephen B. Holt, President  
Shoals Chamber of Commerce

# Steve Trash Litter Prevention Challenge

Steve Trash and Keep the Shoals Beautiful have challenges all students (k-6 grades) within Lauderdale and Colbert Counties to maintain an environmentally friendly campus with litter prevention and recycling programs.



The Litter Prevention Champ will receive:

- Steve Trash Litter Prevention Champ Trophy presented by internationally known Steve Trash
- 5' traveling trophy will be displayed in the school for a year with a permanent engraving
- \$150 cash prize
- Recognition at annual Keep the Shoals Beautiful Annual Awards Ceremony

We will be checking your campus! For complete details of the challenge visit [www.keeptheshoalsbeautiful.com](http://www.keeptheshoalsbeautiful.com) or call Judy Keenum at 256.764.4661.

The "Steve Trash Litter Challenge Trophy" will be awarded each April during Earth Month to the winning school. The six foot traveling Steve Trash Litter Challenge Trophy will have the school name on it, and the school will be keep it until the next year's winner is announced.

In addition to awarding trophy, KTSB will award cash prizes of \$150, \$100, and \$50 to the top three schools. KTSB will also sponsor the winning school for a state wide school award given each year in Montgomery.

Sponsors of the event are the Florence Recycle Center, Keep The Shoals Beautiful, Riverbend Prevention Services, Shoals Solid Waste Authority, Shoals Trophy, Steve Trash Rockin' Eco Hero.

# Keep the Shoals Beautiful Scholarship Application



KEEP THE SHOALS BEAUTIFUL

**Submit to:**  
**Keep The Shoals Beautiful**  
**20 Hightower Place**  
**Florence, Alabama 35630**

## **Our Mission**

**Keep The Shoals Beautiful (KTSB) will empower and engage citizens, businesses and officials in the Shoals area to take action, ownership and responsibility for protecting and enhancing their environment.**

**[www.keeptheshoalsbeautiful.com](http://www.keeptheshoalsbeautiful.com)**

**256-764-4661**

## Keep the Shoals Beautiful Scholarship Application

The Keep the Shoals Beautiful Scholarship is to encourage students to engage in community service projects that support a cleaner environment. Keep the Shoals Beautiful is an affiliate of Keep America Beautiful and sponsored by the Shoals Chamber of Commerce, local governments, business and individual sponsorships. The \$500 cash general scholarships will be awarded to ONE high school student and ONE college student in the Shoals.

To be eligible, applicants must be registered in an accredited institution and must be a member of Keep the Shoals Beautiful organization. To apply for membership, go to [www.keeptheshoalsbeautiful.com](http://www.keeptheshoalsbeautiful.com).

The student must demonstrate initiative and participate in community service projects that promote a clean and green environment. A typed essay (1,000 word limit) titled "What I Have Done to Keep The Shoals Beautiful" must be submitted. The essay must include projects or events in which the applicant started or participated to promote a clean environment through litter reduction, environmental education, recycling, clean-ups or other related individual or community service projects. Included must be a description of any participation in Keep the Shoals Beautiful events. Also included may be a future vision or ideas for the Shoals area. Pictures and references do not count towards the 1,000 word essay requirement.

The scholarship application and essay are due April 1<sup>st</sup>. They must be received at the Shoals Chamber of Commerce office by 5 p.m. Applications will be reviewed by the Keep the Shoals Beautiful Scholarship Committee and members of local educational institutions. The scholarship will be paid in full during the month of April. Persons who have been awarded the scholarship previously may reapply as a KTSB member and for the scholarship.

**Application Deadline: April 1<sup>st</sup>**

20 Hightower Place  
Florence, AL 35630  
(256) 764-4661

Name	_____	_____	_____	_____
	(Last)	(First)	(Middle/Maiden)	
Name of School	_____		Current Grade/Year	_____
Birth Date	_____		Expected Graduation Date	_____
Phone Number	_____		Cell Number	_____
Local Address	_____			
	(Number and Street)	(City)	(State)	(Zip Code)
Permanent Address	_____			
	(Number and Street)	(City)	(State)	(Zip Code)
E-mail Address	_____			
Required reference from school professor, teacher or counselor (circle one)	_____			
	(Name)	(Title)	(Phone number)	
Required reference to verify community service activity	_____			
	(Name)	(Title)	(Phone number)	

**I testify that the information given in this application is true and correct. I pledge to be mindful of my environmental impact and to educate others how to Keep the Shoals Beautiful.**

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

## Litter Pick Up

Mayor David Bradford  
City of Muscle Shoals  
PO Box 2624  
Muscle Shoals, AL 35662

March 28, 2016

Dear Mayor Bradford,

This letter is in regard to the amount of trash picked up around catch basins and storm drains in the City of Muscle Shoals. As of 3/28/16 approximately 892 bags @ 56 gallons per bag have been picked up. Also, on a yearly basis, the Buena Vista Retention Pond is cleaned out and approximately 26 tons of trash, debris, and silt are removed and hauled to the landfill. All of the above would eventually make its way to the Tennessee River via the pumps if not picked up.

Sincerely,

A handwritten signature in black ink, appearing to read "Will Osborn", written in a cursive style.

William Osborn  
Maintenance Supervisor



